



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 8, 2026 – 02:01 AM UTC

PDB ID : 3AOH / pdb_00003aoh
Title : RNA polymerase-Gfh1 complex (Crystal type 1)
Authors : Tagami, S.; Sekine, S.; Kumarevel, T.; Yamamoto, M.; Yokoyama, S.; RIKEN
Structural Genomics/Proteomics Initiative (RSGI)
Deposited on : 2010-09-28
Resolution : 4.10 Å(reported)

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

MolProbity : 4-5-2 with Phenix2.0
Xtriage (Phenix) : 2.0
EDS : 3.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4 : 9.0.010 (Gargrove)
Density-Fitness : 1.0.12
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

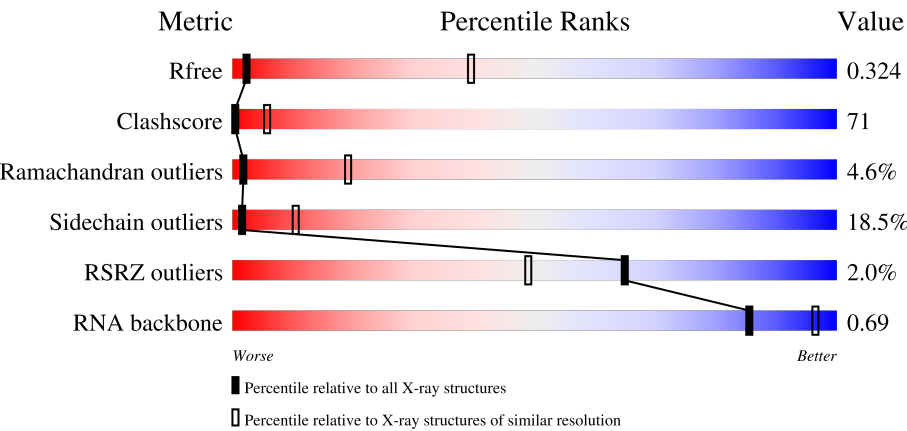
1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 4.10 Å.

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



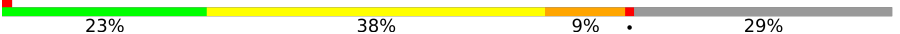
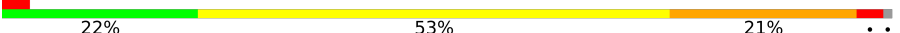
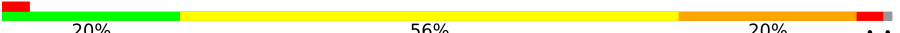
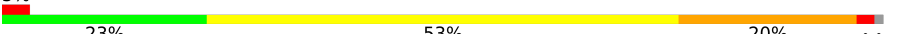
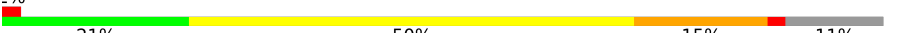
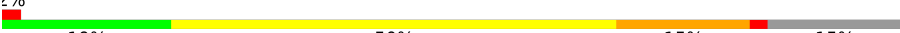
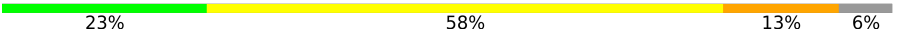
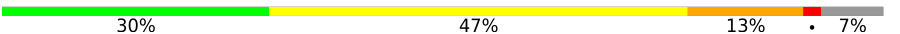
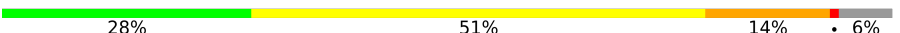
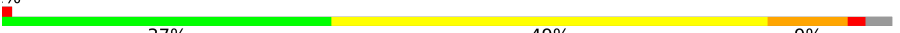
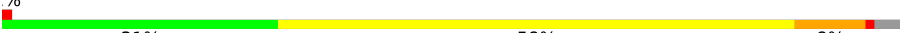
Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R _{free}	180053	1243 (4.40-3.80)
Clashscore	190562	1293 (4.40-3.80)
Ramachandran outliers	187476	1206 (4.40-3.80)
Sidechain outliers	187428	1193 (4.40-3.80)
RSRZ outliers	180081	1240 (4.40-3.80)
RNA backbone	3983	1026 (5.04-3.10)

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

Mol	Chain	Length	Quality of chain
1	A	315	16% 46% 8% 29%
1	B	315	19% 42% 10% 29%
1	F	315	17% 43% 10% 30%
1	G	315	20% 38% 12% 29%

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
1	K	315	
1	L	315	
2	C	1119	
2	H	1119	
2	M	1119	
3	D	1524	
3	I	1524	
3	N	1524	
4	E	99	
4	J	99	
4	O	99	
5	P	27	
6	Q	33	
7	X	156	
7	Y	156	
7	Z	156	

2 Entry composition

There are 9 unique types of molecules in this entry. The entry contains 74250 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	223	Total	C	N	O	S	0	0	0
			1759	1123	306	328	2			
1	B	223	Total	C	N	O	S	0	0	0
			1759	1123	306	328	2			
1	F	222	Total	C	N	O	S	0	0	0
			1750	1117	304	327	2			
1	G	223	Total	C	N	O	S	0	0	0
			1759	1123	306	328	2			
1	K	222	Total	C	N	O	S	0	0	0
			1750	1117	304	327	2			
1	L	223	Total	C	N	O	S	0	0	0
			1759	1123	306	328	2			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	C	1106	Total	C	N	O	S	0	0	0
			8733	5525	1558	1626	24			
2	H	1103	Total	C	N	O	S	0	0	0
			8710	5508	1555	1623	24			
2	M	1105	Total	C	N	O	S	0	0	0
			8729	5523	1557	1625	24			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	D	1349	Total	C	N	O	S	0	0	0
			10651	6740	1888	1991	32			
3	I	1289	Total	C	N	O	S	0	0	0
			10182	6444	1804	1903	31			
3	N	1351	Total	C	N	O	S	0	0	0
			10667	6749	1891	1995	32			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	E	93	Total	C	N	O	S	0	0	0
			754	481	131	138	4			
4	J	92	Total	C	N	O	S	0	0	0
			749	478	130	137	4			
4	O	93	Total	C	N	O	S	0	0	0
			754	481	131	138	4			

- Molecule 5 is a DNA chain called DNA (5'-D(*GP*GP*TP*CP*TP*GP*TP*AP*TP*CP*AP*CP*GP*AP*GP*CP*CP*AP*CP*CP*GP*CP*CP*GP*CP*AP*T)-3').

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	P	6	Total	C	N	O	P	0	0	0
			120	56	22	36	6			

- Molecule 6 is a RNA chain called RNA (5'-R(*CP*CP*CP*CP*GP*GP*AP*AP*GP*AP*UP*CP*AP*UP*CP*UP*UP*CP*CP*GP*GP*GP*GP*GP*AP*U*GP*CP*GP*GP*CP*GP*G)-3').

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
6	Q	7	Total	C	N	O	P	0	0	0
			152	68	31	47	6			

- Molecule 7 is a protein called Anti-cleavage anti-GreA transcription factor Gfh1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
7	X	152	Total	C	N	O	S	0	0	0
			1169	719	207	239	4			
7	Y	152	Total	C	N	O	S	0	0	0
			1169	719	207	239	4			
7	Z	152	Total	C	N	O	S	0	0	0
			1169	719	207	239	4			

- Molecule 8 is ZINC ION (CCD ID: ZN) (formula: Zn).

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

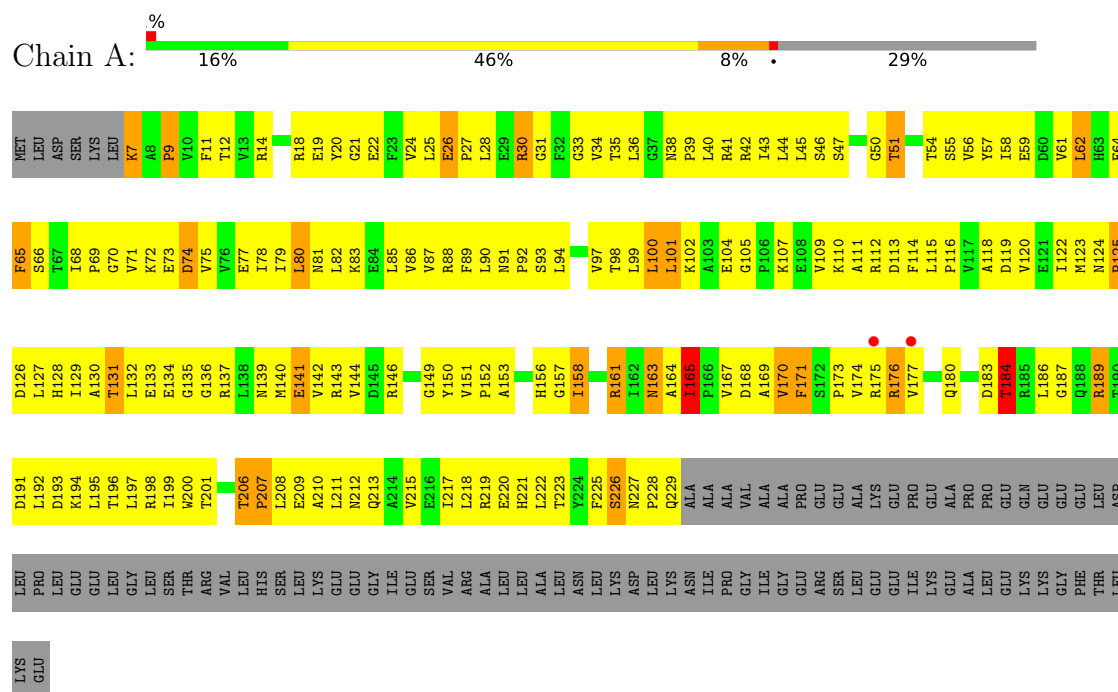
- Molecule 9 is MAGNESIUM ION (CCD ID: MG) (formula: Mg).

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

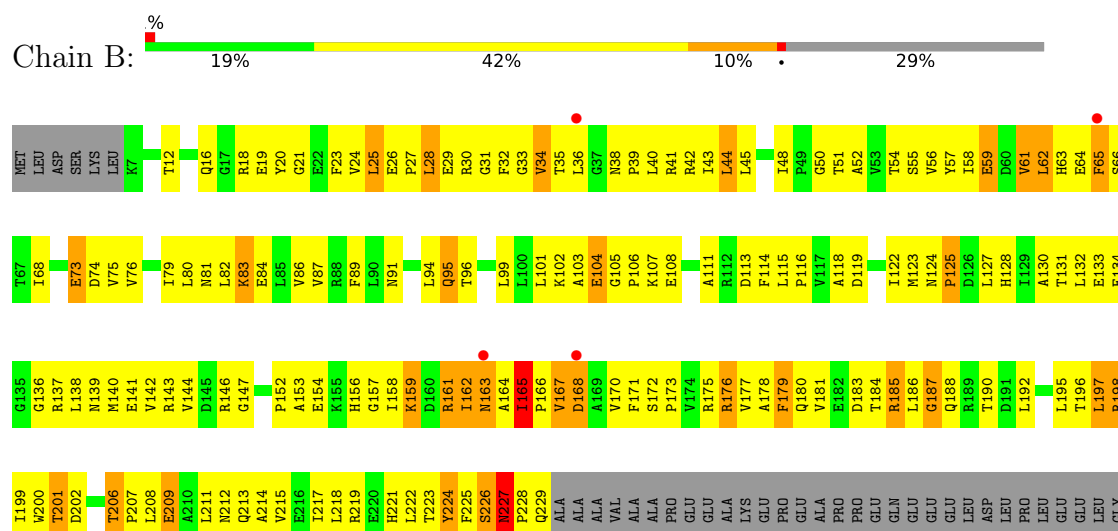
3 Residue-property plots

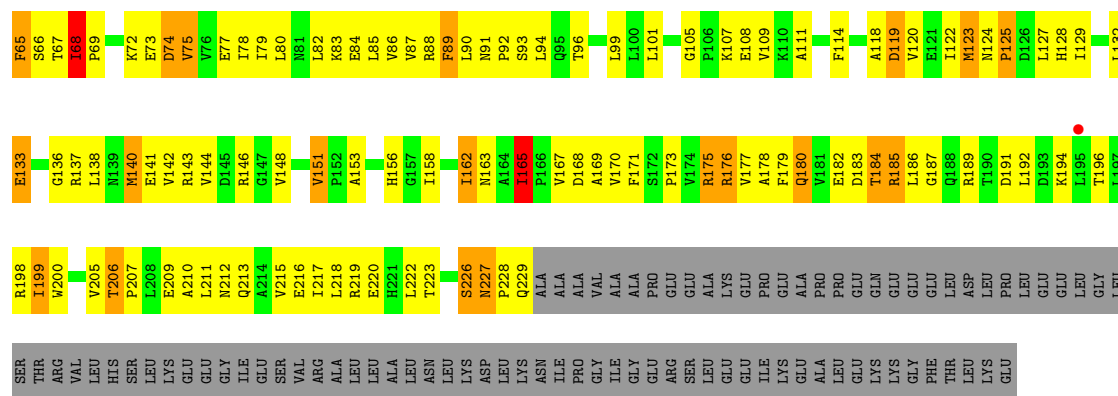
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density.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

• Molecule 1: DNA-directed RNA polymerase subunit alpha

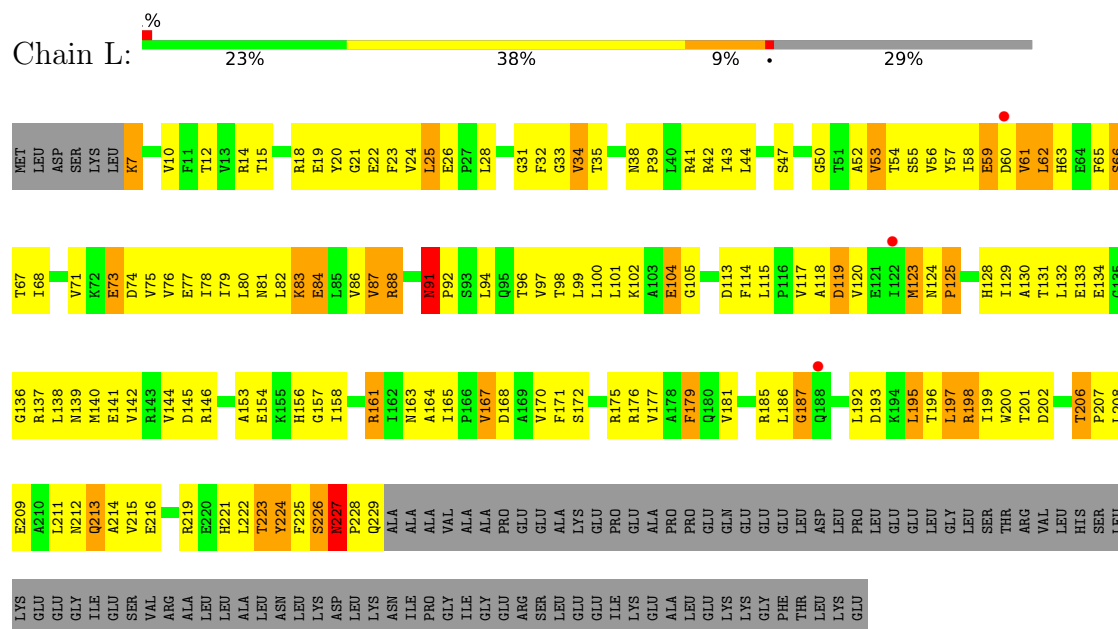


• Molecule 1: DNA-directed RNA polymerase subunit alpha

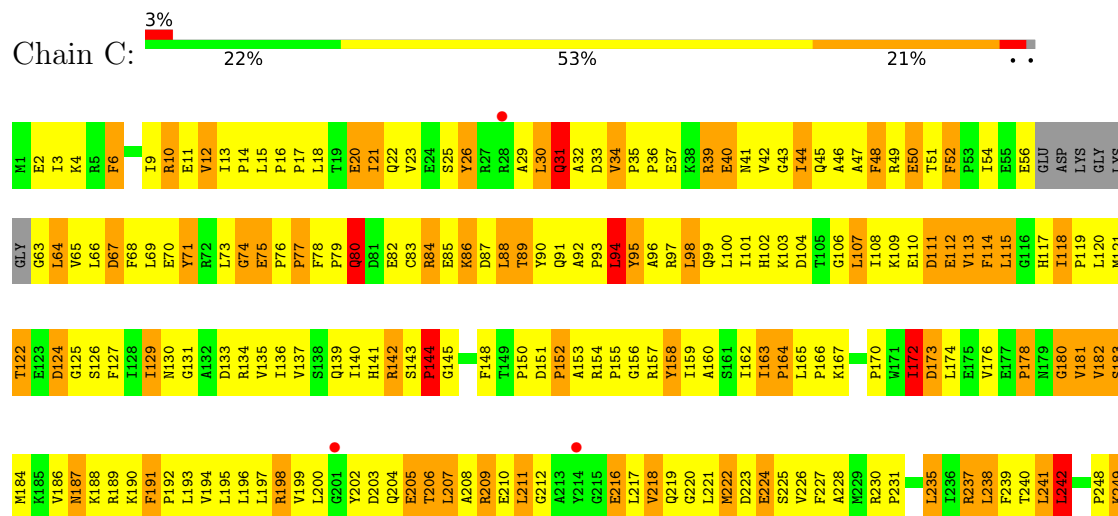


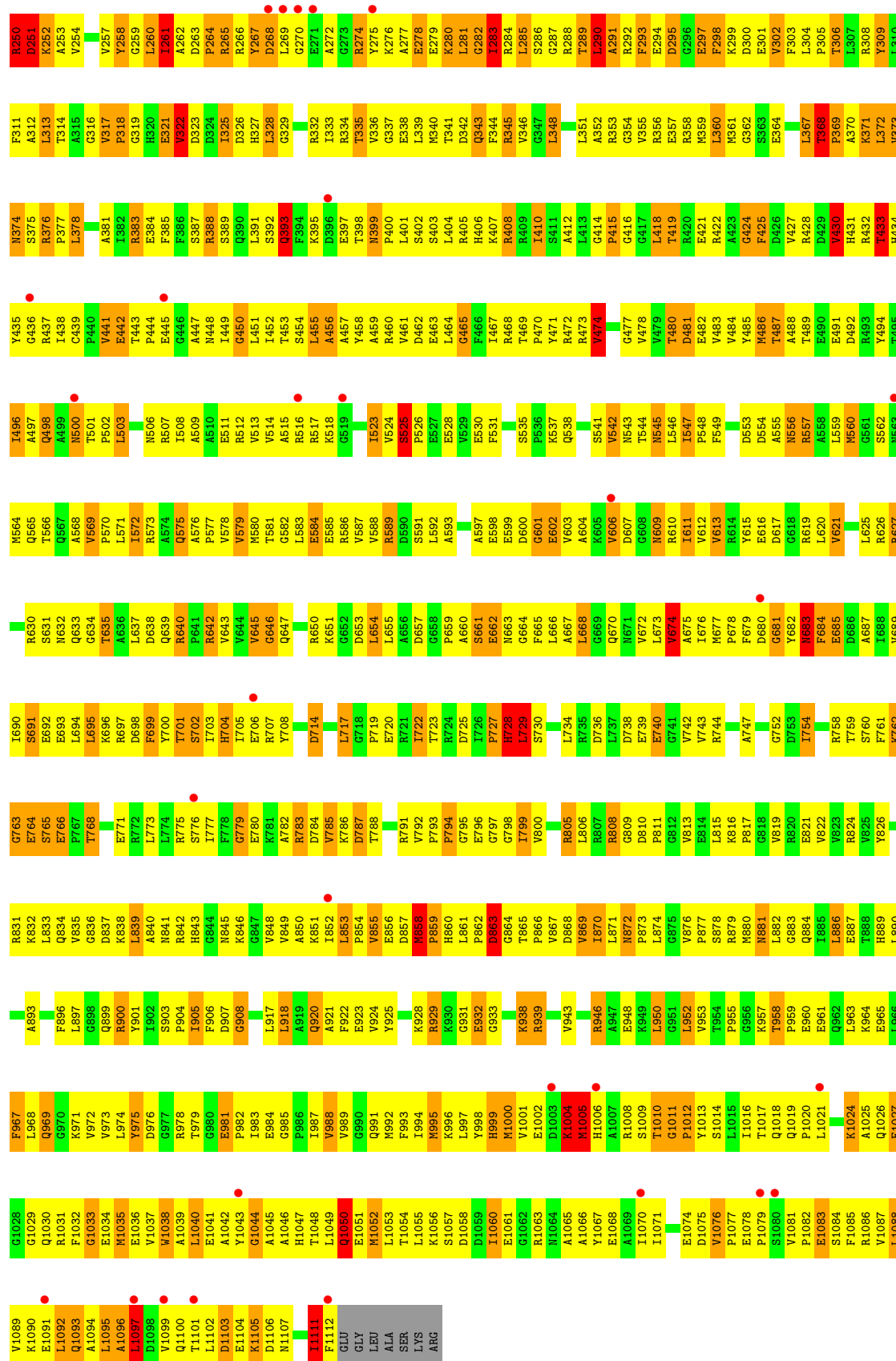


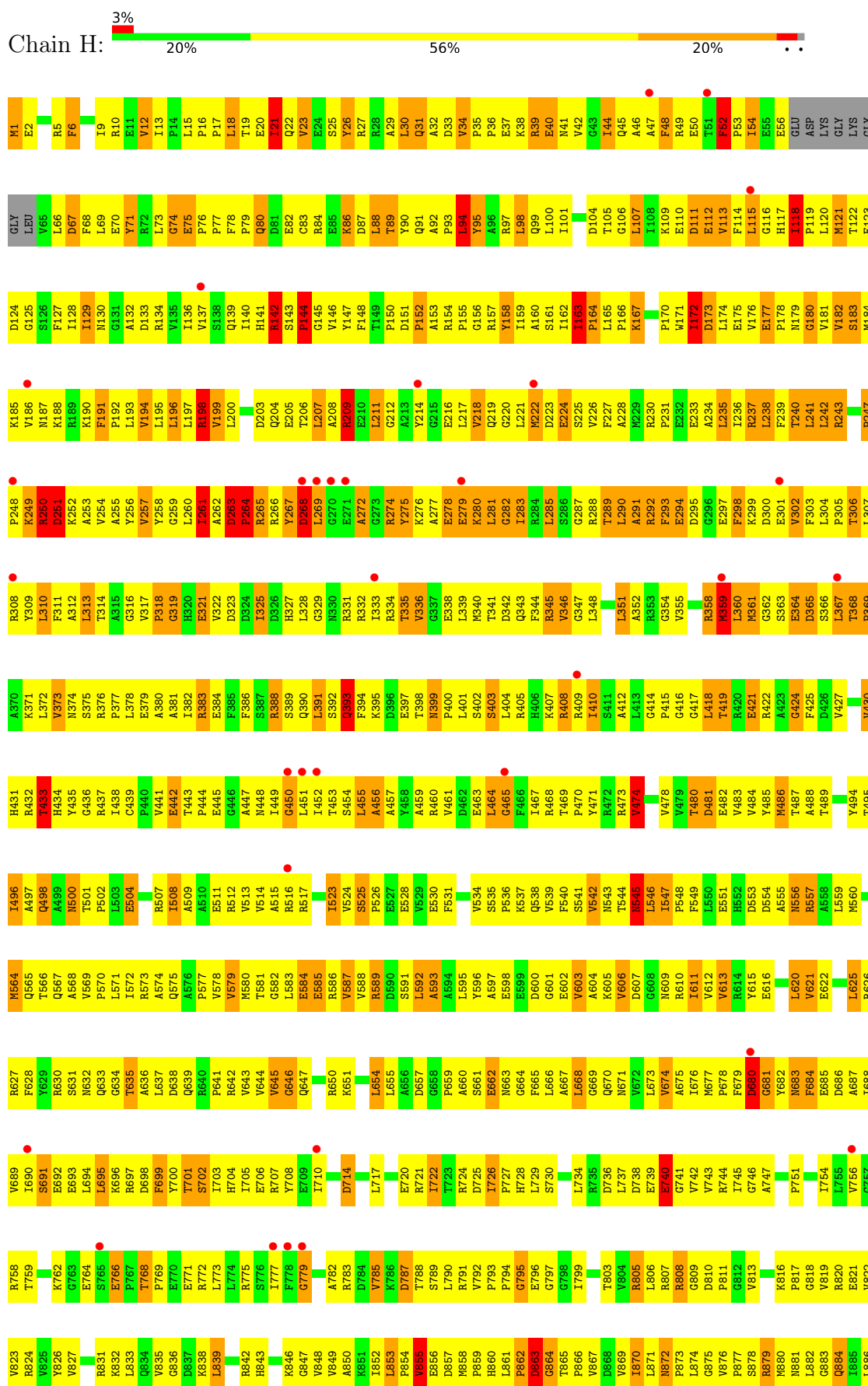
• Molecule 1: DNA-directed RNA polymerase subunit alpha

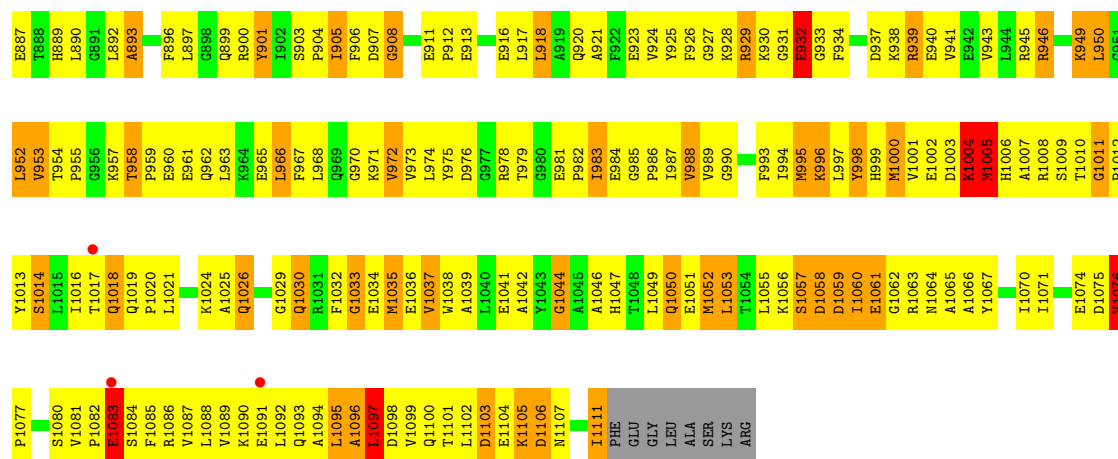


• Molecule 2: DNA-directed RNA polymerase subunit beta

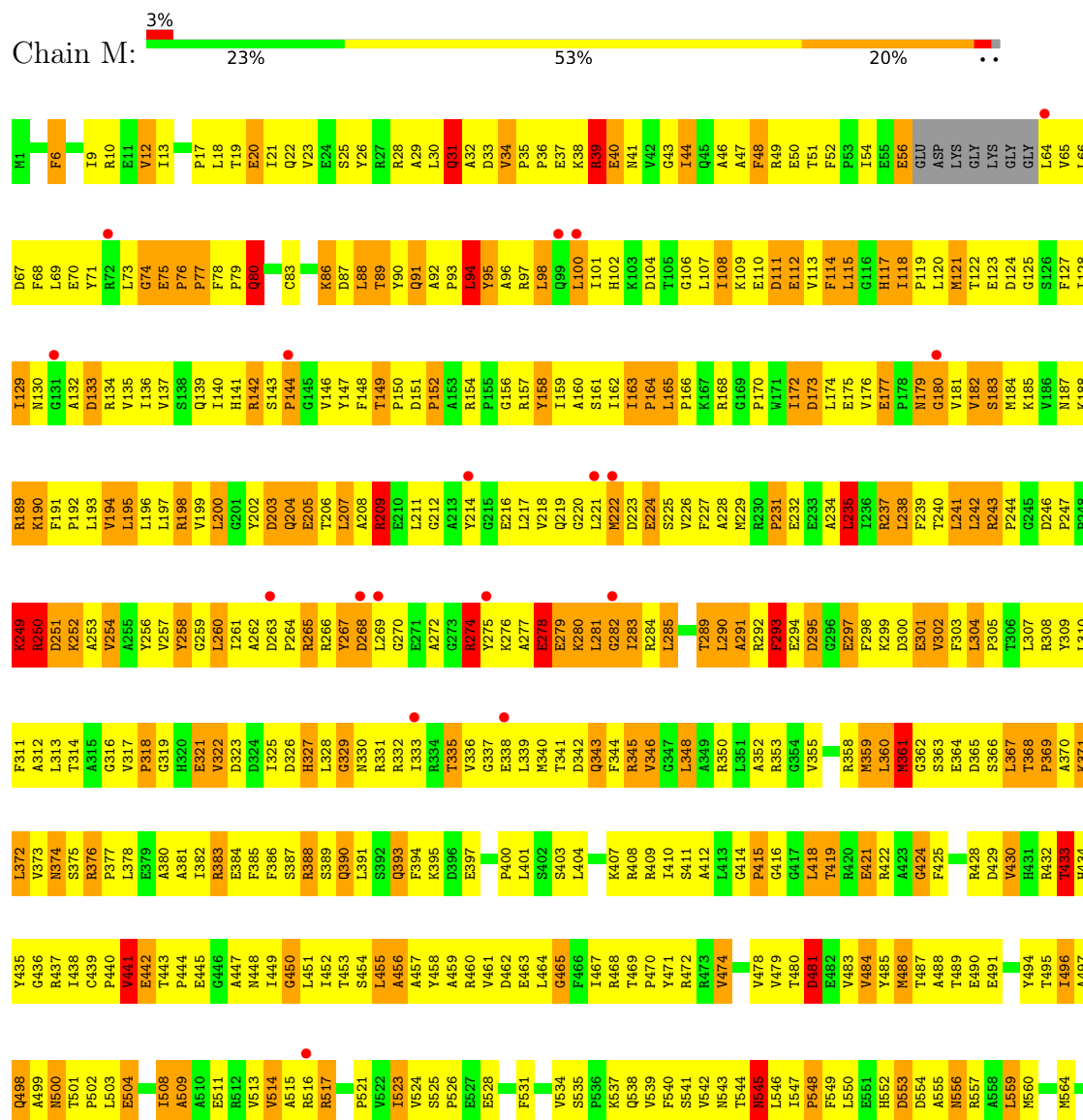


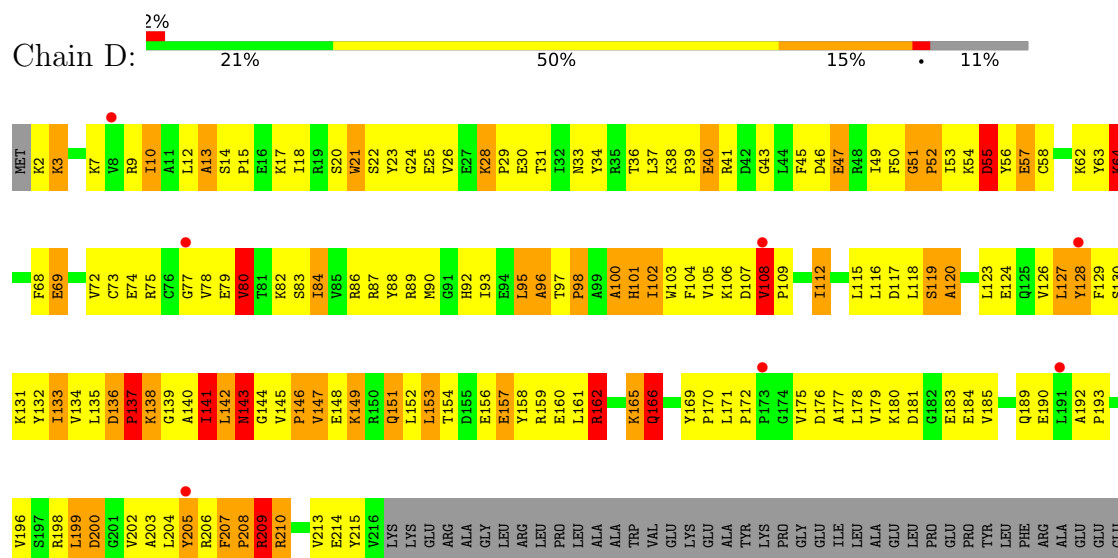
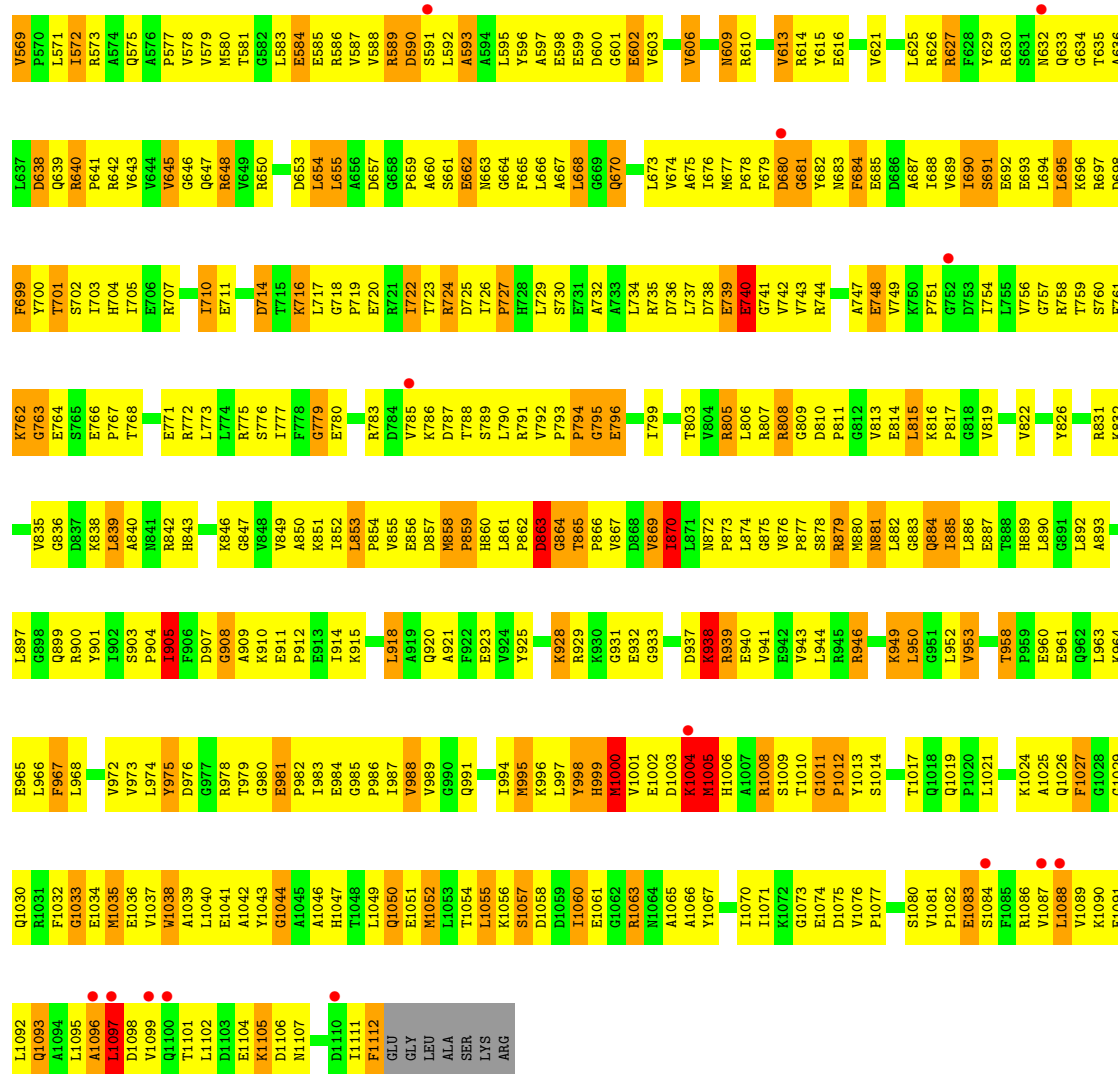




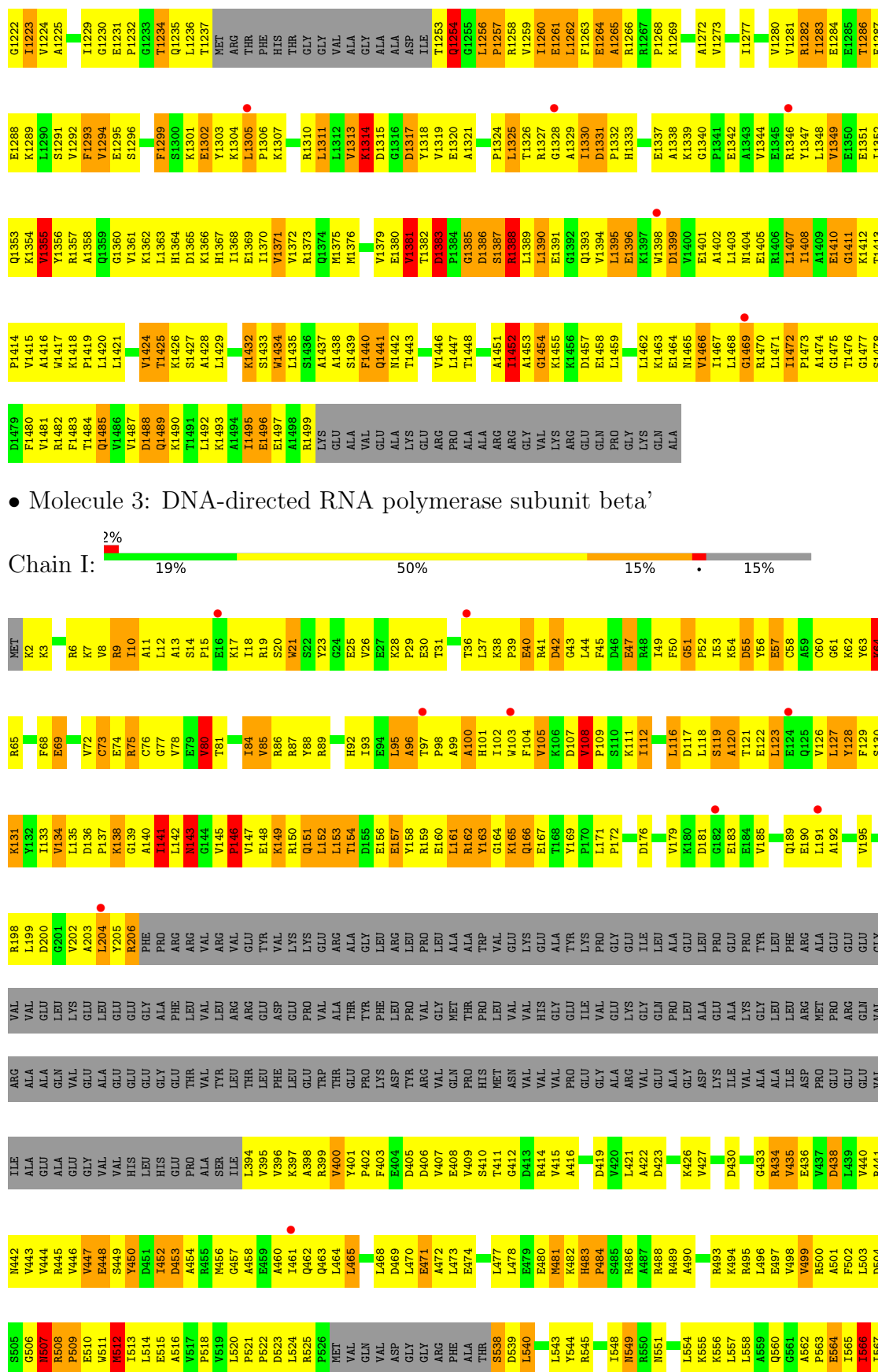


• Molecule 2: DNA-directed RNA polymerase subunit beta

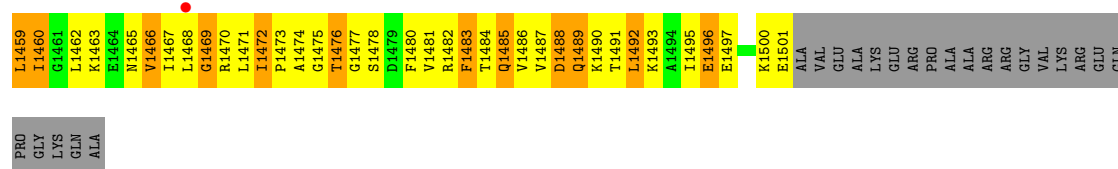




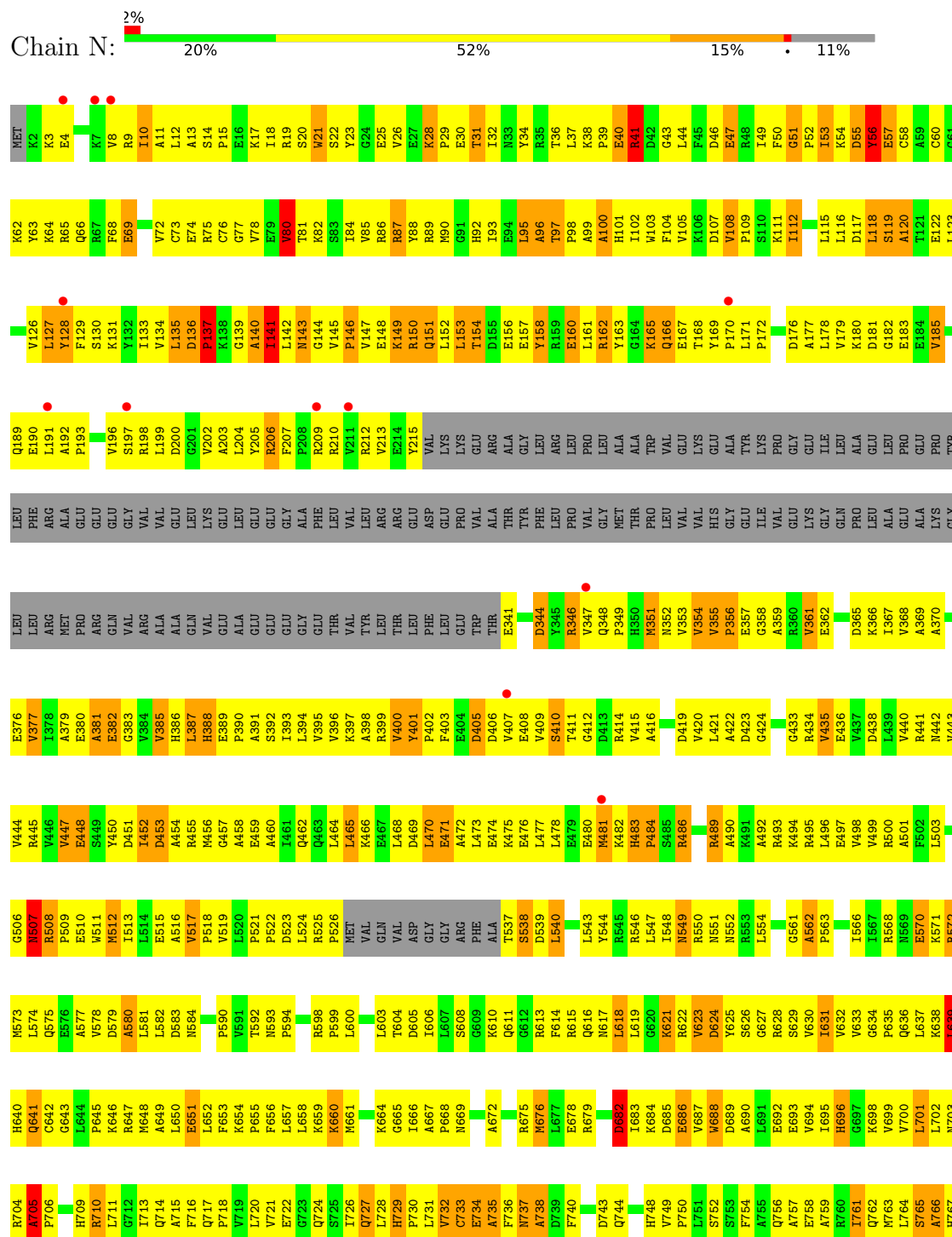


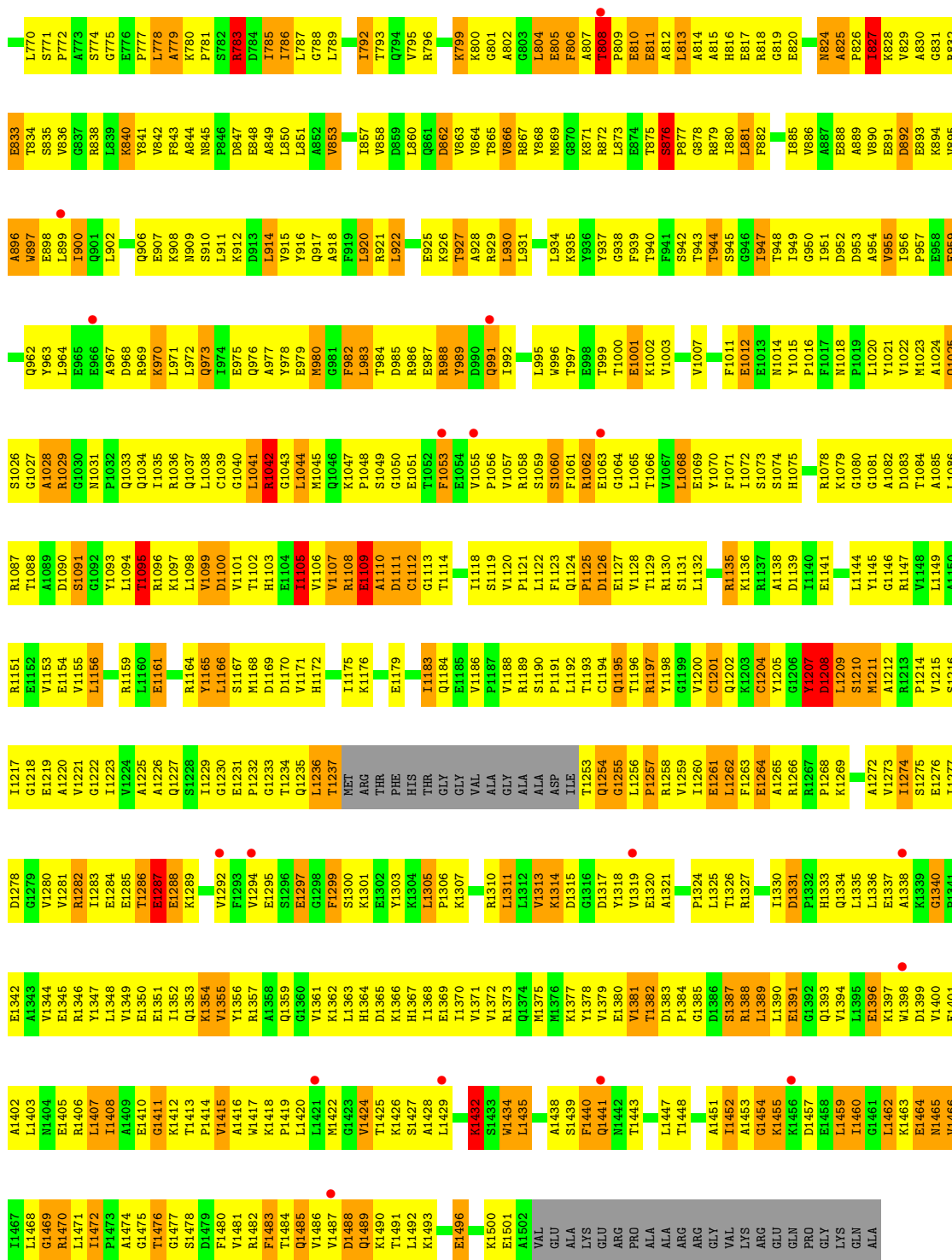


V1394	H1333	D1208	K1079	F1017	Y145	G1090	K1018	E820	Q756	L696	L695	R568
L1395	Q1334	L1209	G1090	N1018	Y146	G1090	N1018	V821	A757	H696	H696	R569
L1396	L1335	S1210	T1084	P1019	R147	T1084	P1019	V821	E758	E697	E697	E570
K1397	L1336	M1211	T1084	L1020	R147	T1084	P1019	N824	A759	K698	K698	K571
V1398	E1337	A1212	L1086	Y1021	L149	A1086	Y1021	A825	V699	V699	V699	R572
D1399	L1338	R1213	L1086	Y1022	L149	A1086	Y1022	P826	Q762	V700	V700	M573
V1400	K1339	P1214	E1087	M1023	A1150	T1088	M1023	L827	W763	L701	L701	L574
E1401	G1340	S1215	T1088	A1024	A1151	T1088	A1024	K628	L764	L702	L702	Q575
A1402	P1341	S1216	S1091	Q1025	E1152	S1091	Q1025	V829	S765	N703	N703	E576
L1403	V1344	T1217	G1092	S1026	E1153	G1092	S1026	A830	W765	R704	R704	A577
N1404	E1345	G1218	G1092	G1027	E1154	E1092	G1027	A831	A896	A705	A705	V578
E1405	R1346	E1219	Y1033	A1028	V1155	Y1033	A1028	R832	P706	P706	P706	D579
R1406	Y1347	A1220	L1084	R1028	L1156	L1084	R1028	E833	K646	A580	A580	L581
L1407	V1348	V1221	T1095	G1030	E1161	T1095	G1030	T634	R647	T707	T707	L582
E1410	V1349	G1222	R1096	P1031	E1162	R1096	P1031	S835	A649	R710	R710	D583
G1411	E1350	I1223	K1097	P1032	E1163	K1097	P1032	R837	L650	L711	L711	N584
K1412	E1351	V1224	L1098	Q1033	R1164	L1098	Q1033	R838	L652	L712	L712	G585
T1413	I1352	A1225	L1098	Q1034	R1165	L1098	Q1034	R839	L653	W714	W714	R586
P1414	Q1353	A1226	D1100	I1035	L1166	D1100	I1035	K840	A715	A715	A715	P590
V1415	K1354	T1229	V1101	R1036	S1167	V1101	R1036	L841	F716	F716	F716	V591
A1416	V1355	G1230	H1103	L1038	M1168	H1103	L1038	V842	Q717	Q717	Q717	T592
W1417	E1356	E1231	E1104	C1039	D1169	E1104	C1039	F843	P718	P718	P718	N593
K1418	R1357	P1232	T1105	G1040	D1170	T1105	G1040	A844	L657	L657	L657	P594
P1419	A1358	G1233	V1106	L1041	V1171	V1106	L1041	N845	L720	L720	L720	
L1420	Q1359	T1234	V1107	R1042	H1172	V1107	R1042	L853	W721	W721	W721	
G1421	V1360	Q1236	R1108	G1043	L1173	R1108	G1043	E848	R660	R660	R660	R598
M1422	E1361	L1236	E1109	L1044	L1174	E1109	L1044	A849	N661	N661	N661	P599
G1423	K1362	T1237	A1110	M1045	K1175	A1110	M1045	L850	E662	E662	E662	L600
K1424	E1363	ME1	D1111	Q1046	K1176	D1111	Q1046		R601	R601	R601	S602
H1425	H1364	ARG	C1112	Q1047	A1177	C1112	Q1047		L665	L665	L665	L603
K1426	K1365	THR	G1113	P1048	E1178	G1113	P1048		Q727	Q727	Q727	L604
S1427	K1366	PHE	T1114	S1049	E1179	T1114	S1049		L666	L666	L666	D605
A1428	H1367	HIS	T1115	G1050	E1182	T1115	G1050		A667	A667	A667	L606
L1429	L1368	THR	N1116	E1051	I1183	N1116	E1051		N669	N669	N669	L607
E1430	E1369	GLY	Y1117	T1052	I1184	Y1117	T1052		V670	V670	V670	S608
T1431	K1370	GLY	I1118	F1053	Q1184	I1118	F1053		K671	K671	K671	
K1432	V1371	VAL	S1119	E1054	E1185	S1119	E1054					
L1433	V1372	ALA	V1120	V1055	V1186	V1120	V1055					G612
W1434	K1373	GLY	P1121	P1056	P1187	P1121	P1056					R613
L1435	Q1374	ALA	L1122	L1057	V1188	L1122	L1057					F614
M1375	V1313	ALA	F1123	R1058	R1189	F1123	R1058					R615
A1438	K1376	ALA	Q1124	S1059	S1190	Q1124	S1059					Q616
S1439	V1314	D1251	P1125	T1060	P1191	P1125	T1060					N617
F1440	Y1378	T1252	D1126	F1061	L1192	D1126	F1061					L618
Q1441	V1379	L1256	E1127	R1062	T1193	E1127	R1062					L619
T1443	V1380	P1257	V1128	E1063	C1194	V1128	E1063					G620
	L1381	V1319	T1129	G1064	Q1195	T1129	G1064					K621
	L1382	R1258	R1130	L1065	T1196	R1130	L1065					R622
	D1383	V1259	S1131	T1066	R1197	S1131	T1066					V623
	P1384	L1260	L1132	V1067	Y1198	L1132	V1067					D624
	G1385	E1261		L1068	G1199		L1068					Y625
	D1386	L1262	R1135	E1069	V1200	R1135	E1069					S626
	S1387	F1263	K1136	Y1070	C1201	K1136	Y1070					G627
	L1388	L1325	Q1202	F1071	Q1202	Q1202	F1071					R628
	G1454	A1265	L1072	L1071	L1072	L1071	L1072					R629
	L1390	R1266	D1139	S1073	C1204	D1139	S1073					V630
	E1391	R1267	I1140	S1074	Y1205	I1140	S1074					I631
	G1392	D1331	E1147		G1206	E1147						V632
	Q1393	P1332	A1142	R1078	Y1207	A1142	R1078					V633

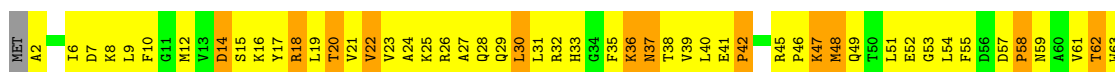


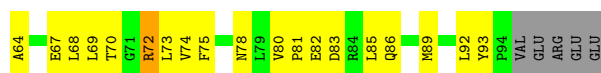
• Molecule 3: DNA-directed RNA polymerase subunit beta'



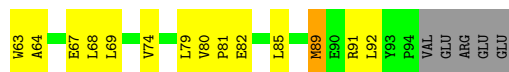
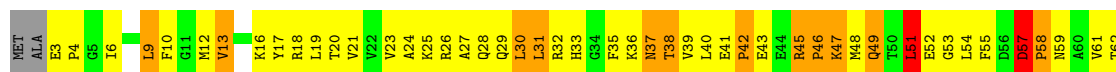


Chain E: 23% 58% 13% 6%

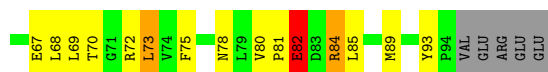
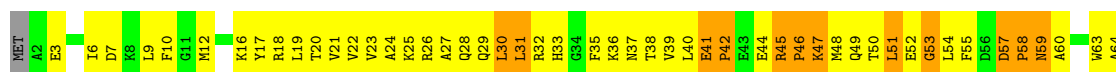




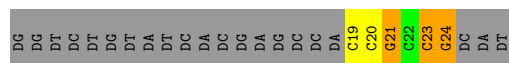
- Molecule 4: DNA-directed RNA polymerase subunit omega



- Molecule 4: DNA-directed RNA polymerase subunit omega



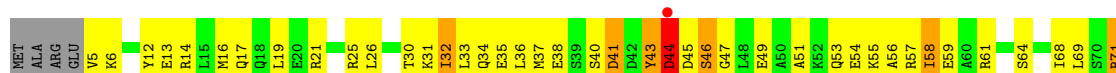
- Molecule 5: DNA (5'-D(*GP*GP*TP*CP*TP*GP*TP*AP*TP*CP*AP*CP*GP*AP*GP*CP*CP*AP*CP*CP*GP*CP*GP*CP*AP*T)-3')



- Molecule 6: RNA (5'-R(*CP*CP*CP*CP*GP*GP*AP*AP*GP*AP*UP*CP*AP*UP*CP*UP*UP*CP*CP*GP*GP*GP*GP*GP*AP*U*GP*CP*GP*GP*CP*GP*G)-3')



- Molecule 7: Anti-cleavage anti-GreA transcription factor Gfh1



R147
E148
F149

V152
A153
I154
H155
G156

• Molecule 7: Anti-cleavage anti-GreA transcription factor Gfh1



MET ALA ARG GLU V5 K6 A10 G11 Y12 E13 R14 Q17 Q18 L19 E20 E21 E22 E23 L26 Q27 E28 A29 T30 K31 I32 L33 Q34 E35 L36 K37 S40 D41 D42 Y43 D44 S46 G47 L48 E49 A50 A51 K52 Q53 E54 K55 A56 R57 I58 E59 A60 R61 I62 I68

R71 A72 V73 I74 L75 E76 E77 G84 L85 V89 E90 L91 E92 S96 G97 E98 R99 V102 Q103 V104 V105 S106 P107 A108 E109 A110 N111 V112 L113 D114 T115 P116 M117 K118 T119 S120 D121 S123 A122 P124 M125 G126 K127 A128 L129 L130 R133 V134 G135 D136 V137 L138 S139 D141

T142 P143 K144 G145 R146 R147 E148 F149 R150 V151 V152 A153 I154 H155 G156

• Molecule 7: Anti-cleavage anti-GreA transcription factor Gfh1



MET ALA ARG GLU K6 L7 A10 G11 Y12 E13 R14 L15 R16 Q17 E20 E21 E22 R25 E28 A29 T30 K31 I32 L33 Q34 E35 L36 K37 S38 S39 S40 D41 D42 Y43 D44 S45 S46 G47 L48 E49 K52 Q53 E54 K55 A56 R57 I58 E59 A60 R61 I62 D63 S64 L65

E66 D67 I68 L69 S70 R71 A72 V73 I74 L75 E76 E77 G78 S79 G80 E81 V82 I83 G84 L85 V88 V89 E90 L91 E92 E98 R99 V102 Q103 V104 P107 A108 E109 A110 N111 V112 L113 D114 T115 P116 M117 K118 T119 S120 D121 S123 A122 P124 M125 G126 K127 A128 L129 L130 H132

R133 V134 G135 D136 V137 L138 S139 D141 R146 R147 E148 F149 V152 A153 I154 H155 G156

4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	192.76Å 260.70Å 198.56Å 90.00° 117.58° 90.00°	Depositor
Resolution (Å)	49.87 – 4.10 49.87 – 4.10	Depositor EDS
% Data completeness (in resolution range)	96.9 (49.87-4.10) 96.9 (49.87-4.10)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.25 (at 4.14Å)	Xtriage
Refinement program	CNS 1.2	Depositor
R, R_{free}	0.262 , 0.318 0.271 , 0.324	Depositor DCC
R_{free} test set	3932 reflections (2.98%)	wwPDB-VP
Wilson B-factor (Å ²)	136.4	Xtriage
Anisotropy	0.211	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.27 , 118.9	EDS
L-test for twinning ²	$\langle L \rangle = 0.44$, $\langle L^2 \rangle = 0.27$	Xtriage
Estimated twinning fraction	0.038 for h,-k,-h-l	Xtriage
F_o, F_c correlation	0.88	EDS
Total number of atoms	74250	wwPDB-VP
Average B, all atoms (Å ²)	171.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.77% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

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

5 Model quality

5.1 Standard geometry

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

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# $ Z > 5$	RMSZ	# $ Z > 5$
1	A	0.56	0/1791	1.10	10/2436 (0.4%)
1	B	0.57	0/1791	1.10	10/2436 (0.4%)
1	F	0.57	1/1782 (0.1%)	1.13	10/2425 (0.4%)
1	G	0.60	0/1791	1.09	10/2436 (0.4%)
1	K	0.56	1/1782 (0.1%)	1.09	14/2425 (0.6%)
1	L	0.54	0/1791	1.10	13/2436 (0.5%)
2	C	0.62	0/8900	1.24	86/12038 (0.7%)
2	H	0.65	1/8876 (0.0%)	1.25	97/12006 (0.8%)
2	M	0.59	0/8896	1.20	86/12033 (0.7%)
3	D	0.61	1/10832 (0.0%)	1.21	118/14638 (0.8%)
3	I	0.62	2/10351 (0.0%)	1.21	89/13979 (0.6%)
3	N	0.61	0/10848	1.20	109/14658 (0.7%)
4	E	0.55	0/768	1.08	2/1035 (0.2%)
4	J	0.57	0/763	1.13	4/1028 (0.4%)
4	O	0.74	1/768 (0.1%)	1.26	5/1035 (0.5%)
5	P	0.56	0/133	1.21	2/202 (1.0%)
6	Q	0.80	0/170	0.93	1/265 (0.4%)
7	X	0.53	0/1178	1.02	4/1582 (0.3%)
7	Y	0.53	0/1178	1.08	8/1582 (0.5%)
7	Z	0.51	0/1178	1.08	7/1582 (0.4%)
All	All	0.61	7/75567 (0.0%)	1.19	685/102257 (0.7%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
2	C	0	2
2	H	0	1
2	M	0	1

Continued on next page...

Continued from previous page...

Mol	Chain	#Chirality outliers	#Planarity outliers
3	I	0	1
3	N	0	1
5	P	0	1
6	Q	0	1
7	Z	0	1
All	All	0	9

All (7) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	O	51	LEU	C-O	-6.79	1.16	1.23
1	K	12	THR	CA-CB	6.02	1.63	1.53
2	H	972	VAL	CA-CB	-5.49	1.47	1.54
3	I	800	LYS	CA-C	-5.44	1.45	1.52
1	F	76	VAL	CA-CB	-5.36	1.47	1.54
3	D	1212	ALA	CA-CB	-5.12	1.47	1.54
3	I	670	VAL	CA-CB	5.02	1.59	1.54

All (685) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	D	143	ASN	N-CA-C	-15.09	95.74	114.75
3	I	143	ASN	N-CA-C	-14.81	96.09	114.75
3	D	1209	LEU	N-CA-C	-14.11	89.14	109.18
3	N	1209	LEU	N-CA-C	-14.07	89.20	109.18
3	I	1209	LEU	N-CA-C	-13.70	89.72	109.18
4	O	49	GLN	N-CA-C	13.47	129.59	112.89
4	J	49	GLN	N-CA-C	13.46	129.92	113.23
4	E	49	GLN	N-CA-C	12.64	129.05	113.50
2	C	163	ILE	N-CA-C	12.46	120.34	107.76
2	H	1011	GLY	CA-C-N	12.21	132.34	119.76
2	H	1011	GLY	C-N-CA	12.21	132.34	119.76
3	I	800	LYS	N-CA-C	11.89	129.08	108.75
3	N	143	ASN	N-CA-C	-11.80	96.71	114.64
2	H	1004	LYS	N-CA-C	11.75	126.92	112.59
3	N	355	VAL	CA-C-N	11.75	134.52	119.84
3	N	355	VAL	C-N-CA	11.75	134.52	119.84
2	H	163	ILE	N-CA-C	11.71	119.59	107.76
2	H	12	VAL	N-CA-C	11.48	121.44	110.42
2	M	12	VAL	N-CA-C	11.33	121.30	110.42
3	N	806	PHE	N-CA-C	-11.08	98.45	113.30
2	C	250	ARG	N-CA-C	10.96	125.78	111.75

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	I	806	PHE	N-CA-C	-10.87	98.73	113.30
2	C	12	VAL	N-CA-C	10.83	121.66	110.72
2	C	1004	LYS	N-CA-C	10.74	126.73	112.88
3	I	508	ARG	CA-C-N	10.64	130.98	119.28
3	I	508	ARG	C-N-CA	10.64	130.98	119.28
3	N	508	ARG	CA-C-N	10.55	130.88	119.28
3	N	508	ARG	C-N-CA	10.55	130.88	119.28
3	I	1109	GLU	N-CA-C	10.45	121.74	107.73
3	D	508	ARG	CA-C-N	10.34	130.65	119.28
3	D	508	ARG	C-N-CA	10.34	130.65	119.28
2	M	1004	LYS	N-CA-C	10.30	126.17	112.88
2	M	163	ILE	N-CA-C	10.19	119.19	107.77
3	D	1126	ASP	N-CA-C	10.14	124.74	108.41
2	C	729	LEU	N-CA-C	10.06	125.15	113.38
3	I	717	GLN	CA-C-N	-10.05	109.48	120.14
3	I	717	GLN	C-N-CA	-10.05	109.48	120.14
3	N	1126	ASP	N-CA-C	10.04	124.24	108.67
3	N	1109	GLU	N-CA-C	10.01	121.45	108.24
2	H	1097	LEU	N-CA-C	9.83	124.10	110.24
3	N	1127	GLU	N-CA-C	-9.80	100.17	112.72
3	I	1127	GLU	N-CA-C	-9.76	96.80	111.34
3	N	811	GLU	N-CA-C	-9.75	101.31	113.01
3	D	806	PHE	N-CA-C	-9.66	100.36	113.30
2	M	1011	GLY	CA-C-N	9.61	129.67	119.78
2	M	1011	GLY	C-N-CA	9.61	129.67	119.78
3	I	811	GLU	N-CA-C	-9.59	101.78	113.19
3	D	1109	GLU	N-CA-C	9.50	120.46	107.73
1	B	226	SER	N-CA-C	9.47	121.55	111.03
3	D	3	LYS	N-CA-C	9.43	121.49	111.03
3	D	811	GLU	N-CA-C	-9.40	102.00	113.19
2	M	182	VAL	N-CA-C	-9.35	94.25	107.80
2	C	1011	GLY	CA-C-N	9.32	129.39	119.89
2	C	1011	GLY	C-N-CA	9.32	129.39	119.89
2	C	1024	LYS	CB-CA-C	-9.23	102.86	114.40
3	D	80	VAL	N-CA-C	9.23	122.75	108.44
2	M	481	ASP	N-CA-C	-9.19	101.38	112.59
2	H	182	VAL	N-CA-C	-9.18	94.49	107.80
3	I	539	ASP	N-CA-C	9.02	122.25	111.33
2	C	481	ASP	N-CA-C	-9.01	101.25	112.88
2	H	481	ASP	N-CA-C	-8.97	100.75	112.41
3	I	705	ALA	CA-C-N	-8.94	108.67	119.84
3	I	705	ALA	C-N-CA	-8.94	108.67	119.84

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	182	VAL	N-CA-C	-8.90	94.89	107.80
3	D	1113	GLY	N-CA-C	8.90	123.42	112.73
2	C	373	VAL	N-CA-C	8.89	121.08	108.36
3	N	539	ASP	N-CA-C	8.72	121.88	111.33
2	M	729	LEU	N-CA-C	8.70	123.26	112.47
3	D	539	ASP	N-CA-C	8.59	121.72	111.33
2	C	547	ILE	CA-C-N	8.56	130.54	119.84
2	C	547	ILE	C-N-CA	8.56	130.54	119.84
2	H	547	ILE	CA-C-N	8.56	130.54	119.84
2	H	547	ILE	C-N-CA	8.56	130.54	119.84
2	H	52	PHE	CA-C-N	-8.52	109.19	119.84
2	H	52	PHE	C-N-CA	-8.52	109.19	119.84
2	M	373	VAL	N-CA-C	8.44	119.99	108.17
2	H	1000	MET	N-CA-C	-8.44	99.16	110.55
1	L	105	GLY	CA-C-N	8.40	130.34	119.84
1	L	105	GLY	C-N-CA	8.40	130.34	119.84
2	C	1000	MET	N-CA-C	-8.29	99.36	110.55
1	L	227	ASN	N-CA-C	8.28	121.63	109.04
2	H	729	LEU	N-CA-C	8.24	122.68	112.47
2	H	373	VAL	N-CA-C	8.19	119.64	108.17
2	M	1000	MET	N-CA-C	-8.18	99.51	110.55
3	D	1042	ARG	N-CA-C	-8.15	95.93	109.46
1	L	227	ASN	CA-C-N	8.14	128.63	119.92
1	L	227	ASN	C-N-CA	8.14	128.63	119.92
2	C	765	SER	N-CA-C	8.12	128.09	110.80
3	D	1210	SER	N-CA-C	-8.01	101.64	111.33
1	G	105	GLY	CA-C-N	7.99	129.82	119.84
1	G	105	GLY	C-N-CA	7.99	129.82	119.84
3	I	1042	ARG	N-CA-C	-7.99	96.20	109.46
3	N	1110	ALA	N-CA-C	-7.94	94.18	108.48
3	I	1476	THR	N-CA-C	-7.90	103.65	113.28
7	Y	119	ILE	CB-CA-C	-7.87	100.43	111.21
3	N	341	GLU	CA-C-N	7.87	127.82	120.03
3	N	341	GLU	C-N-CA	7.87	127.82	120.03
3	D	1331	ASP	CA-C-N	7.85	129.65	119.84
3	D	1331	ASP	C-N-CA	7.85	129.65	119.84
3	D	162	ARG	N-CA-C	7.79	122.81	112.13
2	H	265	ARG	N-CA-C	7.78	122.52	109.76
1	A	59	GLU	N-CA-C	7.78	119.75	111.28
3	I	1110	ALA	N-CA-C	-7.76	94.51	108.48
2	M	514	VAL	CB-CA-C	-7.73	100.62	111.28
3	I	819	GLY	N-CA-C	-7.72	104.11	113.99

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	H	291	ALA	N-CA-C	7.71	121.64	107.99
3	N	41	ARG	CA-C-O	7.70	122.41	117.94
3	I	1094	LEU	N-CA-C	-7.68	102.50	111.03
3	I	1113	GLY	N-CA-C	7.62	123.58	113.37
7	Y	115	THR	CA-C-N	-7.62	111.76	119.99
7	Y	115	THR	C-N-CA	-7.62	111.76	119.99
2	M	291	ALA	N-CA-C	7.62	121.47	107.99
3	N	705	ALA	CA-C-N	-7.60	110.34	119.84
3	N	705	ALA	C-N-CA	-7.60	110.34	119.84
2	H	1005	MET	N-CA-C	7.57	121.46	107.60
1	F	8	ALA	CA-C-N	7.57	129.30	119.84
1	F	8	ALA	C-N-CA	7.57	129.30	119.84
3	I	481	MET	N-CA-C	7.55	119.20	110.97
3	N	1091	SER	N-CA-C	7.55	126.89	110.80
2	H	261	ILE	N-CA-C	7.50	124.93	109.34
2	M	261	ILE	N-CA-C	7.48	124.89	109.34
3	N	1317	ASP	N-CA-C	7.46	120.63	110.55
2	M	938	LYS	N-CA-C	-7.46	103.44	112.54
3	N	1042	ARG	N-CA-C	-7.46	97.08	109.46
3	D	1314	LYS	N-CA-C	7.40	121.13	109.81
3	I	1210	SER	N-CA-C	-7.39	102.39	111.33
1	K	227	ASN	CA-C-N	7.37	127.29	120.21
1	K	227	ASN	C-N-CA	7.37	127.29	120.21
3	I	1314	LYS	N-CA-C	7.37	120.98	110.14
2	C	465	GLY	N-CA-C	7.37	123.83	114.25
4	O	51	LEU	N-CA-C	-7.36	95.47	108.13
3	D	819	GLY	N-CA-C	-7.36	104.57	113.99
2	C	421	GLU	N-CA-C	7.35	120.37	111.40
3	D	1432	LYS	N-CA-C	7.35	122.52	112.90
3	D	1127	GLU	N-CA-C	-7.33	104.19	113.43
1	F	59	GLU	N-CA-C	7.33	119.27	111.28
3	D	1062	ARG	N-CA-C	-7.31	103.00	110.97
3	N	1466	VAL	CB-CA-C	-7.31	102.45	112.02
2	C	262	ALA	N-CA-C	7.30	120.66	111.24
2	M	547	ILE	CA-C-N	7.28	128.94	119.84
2	M	547	ILE	C-N-CA	7.28	128.94	119.84
3	N	621	LYS	N-CA-C	7.28	117.63	108.45
2	H	247	PRO	CA-C-N	7.28	126.81	119.24
2	H	247	PRO	C-N-CA	7.28	126.81	119.24
3	I	1331	ASP	CA-C-N	7.28	128.94	119.84
3	I	1331	ASP	C-N-CA	7.28	128.94	119.84
3	I	51	GLY	CA-C-N	7.27	128.93	119.84

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	I	51	GLY	C-N-CA	7.27	128.93	119.84
3	N	1314	LYS	N-CA-C	7.27	120.82	110.14
3	I	141	ILE	N-CA-C	7.26	119.09	109.21
2	C	261	ILE	N-CA-C	7.26	124.44	109.34
2	M	172	ILE	N-CA-C	7.25	119.07	109.21
2	M	465	GLY	N-CA-C	7.24	123.67	114.25
2	H	872	ASN	CA-C-N	7.22	127.07	119.05
2	H	872	ASN	C-N-CA	7.22	127.07	119.05
2	C	225	SER	N-CA-C	-7.20	104.07	112.92
3	I	1317	ASP	N-CA-C	7.20	120.26	110.55
3	N	481	MET	N-CA-C	7.17	118.79	110.97
2	M	183	SER	N-CA-C	7.17	120.61	109.07
2	H	427	VAL	CB-CA-C	-7.16	102.64	112.24
3	I	80	VAL	N-CA-C	7.15	120.77	108.90
4	O	57	ASP	N-CA-C	7.14	125.59	109.81
2	H	1050	GLN	N-CA-C	-7.12	103.45	111.07
3	D	391	ALA	N-CA-C	-7.11	103.47	111.14
3	D	1476	THR	N-CA-C	-7.10	104.42	113.23
3	N	1476	THR	N-CA-C	-7.09	104.44	113.23
3	D	1317	ASP	N-CA-C	7.08	120.11	110.55
3	D	717	GLN	CA-C-N	-7.06	112.37	119.99
3	D	717	GLN	C-N-CA	-7.06	112.37	119.99
2	H	1057	SER	N-CA-C	7.04	125.79	110.80
3	D	141	ILE	N-CA-C	7.03	120.23	109.12
2	H	938	LYS	N-CA-C	-7.03	103.97	112.54
2	H	768	THR	CA-C-N	7.00	126.63	119.56
2	H	768	THR	C-N-CA	7.00	126.63	119.56
3	N	1432	LYS	N-CA-C	7.00	122.07	112.90
2	H	225	SER	N-CA-C	-6.99	104.33	112.92
2	H	183	SER	N-CA-C	6.98	120.62	109.24
2	M	262	ALA	N-CA-C	6.98	120.25	111.24
3	D	832	ARG	N-CA-C	6.98	119.53	111.02
3	N	819	GLY	N-CA-C	-6.96	105.09	113.99
2	C	183	SER	N-CA-C	6.95	120.26	109.07
3	I	1432	LYS	N-CA-C	6.95	122.04	113.50
2	H	12	VAL	CB-CA-C	-6.94	103.08	111.97
1	G	78	ILE	CB-CA-C	-6.93	103.14	111.81
3	N	80	VAL	N-CA-C	6.88	120.33	108.90
2	C	319	GLY	N-CA-C	-6.88	96.88	113.18
3	D	1110	ALA	N-CA-C	-6.88	96.30	108.13
2	H	319	GLY	N-CA-C	-6.87	96.91	113.18
1	B	173	PRO	N-CA-C	-6.86	106.76	114.92

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L	226	SER	N-CA-C	6.86	120.09	111.24
3	D	1294	VAL	CB-CA-C	-6.84	103.85	111.23
3	N	141	ILE	N-CA-C	6.83	119.91	109.12
3	D	1388	ARG	N-CA-C	6.83	119.77	110.55
1	B	105	GLY	CA-C-N	6.82	128.37	119.84
1	B	105	GLY	C-N-CA	6.82	128.37	119.84
2	C	728	HIS	N-CA-C	6.82	120.57	112.93
2	C	291	ALA	N-CA-C	6.82	120.05	107.99
2	H	967	PHE	N-CA-C	-6.82	103.78	111.14
2	H	1093	GLN	N-CA-C	-6.80	103.11	111.40
3	N	761	ILE	CB-CA-C	-6.79	100.16	111.29
3	D	166	GLN	N-CA-C	-6.78	98.64	109.76
3	I	1062	ARG	N-CA-C	-6.78	103.58	110.97
7	Z	115	THR	CA-C-N	-6.78	112.47	120.13
7	Z	115	THR	C-N-CA	-6.78	112.47	120.13
2	M	39	ARG	N-CA-C	6.78	119.29	111.02
3	D	1090	ASP	N-CA-C	-6.77	104.75	112.87
2	M	225	SER	N-CA-C	-6.77	104.60	112.92
2	C	442	GLU	N-CA-C	6.76	120.63	112.38
2	M	967	PHE	N-CA-C	-6.76	103.84	111.14
3	N	166	GLN	N-CA-C	-6.76	98.90	109.72
3	D	705	ALA	CA-C-N	-6.75	111.41	119.84
3	D	705	ALA	C-N-CA	-6.75	111.41	119.84
3	D	481	MET	N-CA-C	6.74	118.31	110.97
3	D	388	HIS	N-CA-C	6.73	121.88	112.93
2	H	318	PRO	N-CA-C	-6.71	105.12	113.84
2	H	346	VAL	N-CA-C	-6.70	103.95	110.72
2	H	263	ASP	CA-C-N	-6.69	111.47	119.84
2	H	263	ASP	C-N-CA	-6.69	111.47	119.84
2	M	319	GLY	N-CA-C	-6.69	97.33	113.18
2	M	165	LEU	N-CA-C	-6.68	98.60	109.82
2	M	1005	MET	N-CA-C	6.65	121.71	107.67
1	G	227	ASN	N-CA-C	6.65	120.37	108.47
2	M	763	GLY	N-CA-C	6.65	119.64	112.33
1	A	171	PHE	N-CA-C	6.64	120.60	112.23
2	C	265	ARG	N-CA-C	6.64	121.12	109.96
1	G	61	VAL	N-CA-C	6.64	117.65	108.89
3	I	9	ARG	N-CA-C	6.64	120.22	109.40
2	H	240	THR	N-CA-C	-6.63	104.05	111.28
2	H	1083	GLU	N-CA-C	-6.63	104.91	112.87
2	M	433	THR	N-CA-C	6.62	119.33	111.71
2	H	456	ALA	N-CA-C	6.62	118.87	110.33

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	K	184	THR	N-CA-C	6.62	119.26	110.53
1	A	165	ILE	N-CA-C	6.61	115.27	107.73
2	C	1111	ILE	N-CA-C	-6.61	103.80	111.00
1	G	165	ILE	N-CA-C	6.61	115.47	107.61
3	D	69	GLU	N-CA-C	6.58	118.53	111.36
3	I	1128	VAL	N-CA-CB	6.58	120.77	111.82
2	C	172	ILE	N-CA-C	6.58	118.87	108.87
1	F	105	GLY	CA-C-N	6.58	128.06	119.84
1	F	105	GLY	C-N-CA	6.58	128.06	119.84
2	M	456	ALA	N-CA-C	6.57	118.81	110.33
2	H	465	GLY	N-CA-C	6.56	122.78	114.25
3	N	1331	ASP	CA-C-N	6.56	128.04	119.84
3	N	1331	ASP	C-N-CA	6.56	128.04	119.84
2	M	430	VAL	N-CA-C	-6.55	98.85	108.54
3	N	1313	VAL	N-CA-C	-6.55	98.96	108.71
2	C	1005	MET	N-CA-C	6.54	121.46	107.67
2	H	408	ARG	N-CA-C	6.53	121.19	112.30
3	D	589	ALA	CA-C-N	6.53	126.88	119.83
3	D	589	ALA	C-N-CA	6.53	126.88	119.83
2	C	318	PRO	N-CA-C	-6.51	104.86	113.65
3	N	9	ARG	N-CA-C	6.50	119.50	108.90
3	N	354	VAL	N-CA-C	-6.50	106.39	112.83
3	N	385	VAL	N-CA-C	6.50	119.39	109.12
3	I	825	ALA	CA-C-N	6.49	126.40	119.85
3	I	825	ALA	C-N-CA	6.49	126.40	119.85
2	H	1044	GLY	N-CA-C	-6.47	105.11	115.08
2	M	329	GLY	N-CA-C	-6.47	107.29	115.31
3	D	209	ARG	N-CA-C	-6.46	105.12	112.87
2	H	1097	LEU	CA-CB-CG	6.46	138.90	116.30
2	C	1044	GLY	N-CA-C	-6.44	105.16	115.08
3	N	1113	GLY	N-CA-C	6.44	122.00	113.37
3	I	802	ALA	N-CA-C	6.42	118.71	109.14
1	B	227	ASN	N-CA-C	6.42	120.25	108.69
2	C	94	LEU	N-CA-C	6.42	118.87	108.34
3	I	1313	VAL	N-CA-C	-6.42	99.15	108.71
3	I	55	ASP	N-CA-C	6.42	119.68	107.75
2	H	172	ILE	N-CA-C	6.41	118.61	108.87
2	M	442	GLU	N-CA-C	6.40	120.19	112.38
3	D	435	VAL	N-CA-C	6.39	117.80	108.53
1	A	184	THR	N-CA-C	6.39	119.04	110.35
2	M	318	PRO	N-CA-C	-6.39	105.53	113.84
2	C	938	LYS	N-CA-C	-6.38	104.75	112.54

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	D	165	LYS	N-CA-C	6.38	118.56	108.67
2	C	766	GLU	N-CA-C	6.35	119.48	110.40
3	I	435	VAL	N-CA-C	6.35	117.62	108.48
2	C	967	PHE	N-CA-C	-6.34	104.44	111.36
3	D	1140	ILE	CB-CA-C	-6.33	103.60	112.14
7	Z	121	ASP	N-CA-C	-6.32	104.30	111.07
1	K	59	GLU	N-CA-C	6.32	118.17	111.28
3	D	1313	VAL	N-CA-C	-6.32	99.30	108.71
3	D	621	LYS	N-CA-C	6.30	116.55	108.24
2	M	1044	GLY	N-CA-C	-6.29	105.39	115.08
1	K	171	PHE	N-CA-C	6.28	120.14	112.23
2	H	142	ARG	N-CA-C	-6.26	100.13	109.15
1	K	165	ILE	N-CA-C	6.26	114.86	107.73
3	I	853	VAL	CB-CA-C	-6.26	103.80	111.87
3	D	508	ARG	N-CA-C	6.25	118.70	110.08
3	I	1126	ASP	N-CA-C	6.25	118.89	108.96
2	H	853	LEU	N-CA-C	6.24	117.66	109.93
3	N	346	ARG	N-CA-C	6.23	119.40	109.24
2	C	322	VAL	N-CA-C	-6.23	96.38	109.34
2	H	322	VAL	N-CA-C	-6.22	96.40	109.34
2	H	224	GLU	N-CA-C	6.21	118.93	107.99
3	N	34	TYR	N-CA-C	6.21	118.56	111.11
2	C	240	THR	N-CA-C	-6.21	103.82	111.33
2	C	1050	GLN	N-CA-C	-6.21	104.43	111.07
4	O	53	GLY	N-CA-C	6.20	123.00	115.31
2	M	1050	GLN	N-CA-C	-6.20	104.44	111.07
2	H	433	THR	N-CA-C	6.18	118.82	111.71
3	I	166	GLN	N-CA-C	-6.18	99.11	109.07
1	F	165	ILE	N-CA-C	6.18	114.78	107.73
3	D	810	GLU	N-CA-C	-6.17	104.81	112.90
3	I	508	ARG	N-CA-C	6.17	118.60	110.08
2	C	795	GLY	N-CA-C	-6.17	98.55	113.18
3	N	832	ARG	N-CA-C	6.17	118.55	111.02
3	I	69	GLU	N-CA-C	6.16	118.97	111.82
2	C	1057	SER	N-CA-C	6.16	123.91	110.80
6	Q	10	G	C4'-C3'-O3'	6.15	122.23	113.00
2	M	280	LYS	N-CA-C	6.13	118.47	111.11
3	D	9	ARG	N-CA-C	6.13	119.39	109.40
2	M	1083	GLU	N-CA-C	-6.12	105.52	112.87
1	G	34	VAL	CB-CA-C	-6.12	103.78	112.22
1	A	105	GLY	CA-C-N	6.08	127.43	119.84
1	A	105	GLY	C-N-CA	6.08	127.43	119.84

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	I	161	LEU	N-CA-C	6.07	118.86	111.82
2	H	18	LEU	N-CA-C	6.07	118.67	111.33
2	C	433	THR	N-CA-C	6.07	118.69	111.71
3	I	13	ALA	N-CA-C	6.06	118.56	108.20
2	M	1057	SER	N-CA-C	6.06	123.71	110.80
2	M	346	VAL	N-CA-C	-6.05	104.61	110.72
2	M	1093	GLN	N-CA-C	-6.05	104.02	111.40
3	D	207	PHE	N-CA-C	6.04	119.97	109.82
3	I	1044	LEU	N-CA-C	6.04	118.68	107.99
3	N	13	ALA	N-CA-C	6.03	118.52	108.20
2	M	86	LYS	N-CA-C	6.02	120.65	112.88
7	Y	48	LEU	N-CA-C	6.02	117.72	111.03
2	C	224	GLU	N-CA-C	6.02	118.59	107.99
2	C	456	ALA	N-CA-C	6.02	118.09	110.33
3	D	592	THR	N-CA-C	-6.02	102.59	110.53
7	Z	138	LEU	N-CA-C	6.02	118.21	109.07
3	N	1439	SER	N-CA-C	6.01	117.70	111.03
2	M	240	THR	N-CA-C	-6.00	104.07	111.75
2	H	421	GLU	N-CA-C	6.00	120.67	112.04
7	X	115	THR	CA-C-N	-5.99	113.36	120.13
7	X	115	THR	C-N-CA	-5.99	113.36	120.13
3	I	800	LYS	CA-CB-CG	-5.98	102.14	114.10
3	N	866	VAL	N-CA-C	5.98	116.90	108.17
2	H	112	GLU	N-CA-C	5.98	117.80	107.93
1	K	105	GLY	CA-C-N	5.98	127.31	119.84
1	K	105	GLY	C-N-CA	5.98	127.31	119.84
3	N	435	VAL	N-CA-C	5.97	117.19	108.53
2	M	441	VAL	CB-CA-C	-5.97	105.81	111.06
1	L	61	VAL	N-CA-C	5.97	116.77	108.89
2	M	265	ARG	N-CA-C	5.97	119.98	109.96
3	I	779	ALA	N-CA-C	-5.95	105.94	112.72
3	I	810	GLU	N-CA-C	-5.95	105.11	112.90
2	M	235	LEU	N-CA-C	-5.95	104.88	111.36
3	D	13	ALA	N-CA-C	5.94	118.36	108.20
3	D	824	ASN	N-CA-C	5.94	120.24	111.04
2	H	323	ASP	N-CA-C	5.93	118.40	108.73
3	D	776	GLU	CA-C-N	5.92	125.88	119.78
3	D	776	GLU	C-N-CA	5.92	125.88	119.78
3	D	802	ALA	N-CA-C	5.92	117.96	109.14
3	N	1469	GLY	N-CA-C	-5.91	107.50	115.36
2	C	1083	GLU	N-CA-C	-5.91	105.78	112.87
3	D	825	ALA	CA-C-N	5.90	125.81	119.85

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	D	825	ALA	C-N-CA	5.90	125.81	119.85
2	M	858	MET	CA-C-N	5.90	127.22	119.84
2	M	858	MET	C-N-CA	5.90	127.22	119.84
3	N	508	ARG	N-CA-C	5.90	118.22	110.08
2	H	86	LYS	N-CA-C	5.90	120.18	112.92
1	B	91	ASN	CA-C-N	5.90	127.21	119.84
1	B	91	ASN	C-N-CA	5.90	127.21	119.84
3	D	64	LYS	N-CA-C	5.90	121.25	112.94
3	N	356	PRO	N-CA-C	5.89	124.61	112.47
1	L	91	ASN	CA-C-N	5.89	127.20	119.84
1	L	91	ASN	C-N-CA	5.89	127.20	119.84
2	H	393	GLN	N-CA-C	5.88	117.15	108.86
2	C	235	LEU	N-CA-C	-5.86	104.97	111.36
2	M	655	LEU	N-CA-C	-5.86	105.80	113.12
3	D	515	GLU	N-CA-C	-5.84	105.92	114.39
3	I	866	VAL	N-CA-C	5.83	116.47	107.78
3	D	683	ILE	CB-CA-C	-5.83	101.73	111.29
3	N	1208	ASP	N-CA-C	5.82	123.20	110.80
3	N	876	SER	CA-C-N	5.82	125.29	119.24
3	N	876	SER	C-N-CA	5.82	125.29	119.24
2	H	442	GLU	N-CA-C	5.82	119.48	112.38
3	D	562	ALA	N-CA-C	5.81	122.65	109.81
2	C	323	ASP	N-CA-C	5.81	118.20	108.73
3	D	804	LEU	CA-CB-CG	-5.81	95.97	116.30
2	C	86	LYS	N-CA-C	5.80	120.06	112.92
2	C	858	MET	CA-C-N	5.80	127.09	119.84
2	C	858	MET	C-N-CA	5.80	127.09	119.84
3	N	562	ALA	N-CA-C	5.80	122.62	109.81
3	D	1469	GLY	N-CA-C	-5.79	107.32	115.32
3	N	682	ASP	N-CA-C	5.79	119.32	112.72
3	D	680	GLN	N-CA-C	5.79	119.44	112.38
2	C	167	LYS	N-CA-C	5.78	118.32	111.33
2	M	326	ASP	N-CA-C	5.78	120.17	113.18
2	H	94	LEU	N-CA-C	5.77	117.80	108.34
1	F	171	PHE	N-CA-C	5.76	119.48	112.23
2	M	323	ASP	N-CA-C	5.75	118.11	108.73
3	N	1381	VAL	N-CA-C	5.75	116.17	108.11
3	D	818	ARG	N-CA-C	-5.75	105.93	113.12
2	M	322	VAL	N-CA-C	-5.75	97.39	109.34
3	I	832	ARG	N-CA-C	5.74	118.03	111.02
3	D	55	ASP	N-CA-C	5.74	118.43	107.75
3	D	1190	SER	N-CA-C	5.73	113.38	108.22

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	173	PRO	N-CA-C	-5.73	107.18	114.35
2	H	949	LYS	N-CA-C	-5.73	106.13	113.01
2	C	1093	GLN	N-CA-C	-5.73	104.41	111.40
3	N	980	MET	N-CA-C	-5.73	106.42	113.41
2	C	853	LEU	N-CA-C	5.73	117.29	110.07
2	H	177	GLU	CA-C-N	5.72	127.00	119.84
2	H	177	GLU	C-N-CA	5.72	127.00	119.84
2	M	547	ILE	N-CA-C	5.72	112.77	107.56
1	G	227	ASN	CA-C-N	5.72	125.70	120.21
1	G	227	ASN	C-N-CA	5.72	125.70	120.21
3	N	151	GLN	N-CA-C	5.72	118.35	109.60
3	N	28	LYS	CA-C-N	5.71	126.98	119.84
3	N	28	LYS	C-N-CA	5.71	126.98	119.84
3	N	824	ASN	N-CA-C	5.71	120.30	111.56
2	M	94	LEU	N-CA-C	5.71	117.70	108.34
2	H	361	MET	N-CA-C	-5.70	105.43	112.38
2	C	893	ALA	N-CA-C	-5.70	104.99	111.14
2	H	879	ARG	N-CA-C	-5.69	102.47	110.50
2	C	542	VAL	N-CA-C	-5.69	104.32	110.23
2	M	509	ALA	N-CA-C	5.68	121.08	114.04
3	I	566	ILE	CB-CA-C	-5.68	104.63	112.24
7	Y	138	LEU	N-CA-C	5.68	117.70	109.07
3	D	210	ARG	N-CA-C	5.67	117.14	108.52
2	C	408	ARG	N-CA-C	5.67	120.01	112.30
3	I	85	VAL	N-CA-C	-5.67	105.63	113.00
3	I	1381	VAL	N-CA-C	5.67	116.05	108.11
3	D	509	PRO	N-CA-C	5.67	121.31	113.65
4	J	47	LYS	N-CA-C	5.67	117.89	108.99
3	N	69	GLU	N-CA-C	5.67	118.40	111.82
7	X	138	LEU	N-CA-C	5.67	117.69	109.07
1	L	165	ILE	N-CA-C	5.67	114.35	107.61
2	C	398	THR	N-CA-C	-5.66	104.31	111.11
2	H	1037	VAL	N-CA-C	-5.66	105.21	110.53
1	B	83	LYS	N-CA-C	-5.66	105.20	111.71
3	D	779	ALA	N-CA-C	-5.65	106.28	112.72
1	B	165	ILE	N-CA-C	5.65	114.33	107.61
3	I	813	LEU	N-CA-C	-5.65	105.04	111.14
3	D	142	LEU	CA-CB-CG	5.65	136.07	116.30
2	H	525	SER	CA-C-N	5.64	126.02	119.47
2	H	525	SER	C-N-CA	5.64	126.02	119.47
3	I	921	ARG	N-CA-C	5.64	120.28	112.45
2	H	242	LEU	N-CA-C	-5.63	102.29	110.24

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	M	949	LYS	N-CA-C	-5.63	106.25	113.01
2	C	399	ASN	N-CA-C	-5.63	101.72	108.25
2	M	593	ALA	N-CA-C	-5.62	103.99	111.24
3	N	623	VAL	N-CA-C	5.61	117.40	108.87
3	D	169	TYR	CA-C-N	5.61	125.92	119.92
3	D	169	TYR	C-N-CA	5.61	125.92	119.92
3	D	389	GLU	N-CA-C	5.61	122.20	109.81
2	C	393	GLN	N-CA-C	5.60	117.14	109.18
3	N	1099	VAL	CB-CA-C	-5.60	104.49	112.22
2	C	317	VAL	CA-C-N	5.60	125.44	119.28
2	C	317	VAL	C-N-CA	5.60	125.44	119.28
2	H	262	ALA	N-CA-C	5.60	120.13	111.56
3	I	623	VAL	N-CA-C	5.60	116.64	108.58
3	I	840	LYS	N-CA-C	5.60	117.07	110.97
3	I	1190	SER	N-CA-C	5.59	113.25	108.22
3	I	1388	ARG	N-CA-C	5.59	117.92	110.53
2	H	399	ASN	N-CA-C	-5.59	101.77	108.25
3	N	51	GLY	CA-C-N	5.58	126.82	119.84
3	N	51	GLY	C-N-CA	5.58	126.82	119.84
3	N	1044	LEU	N-CA-C	5.58	118.62	107.62
2	C	280	LYS	N-CA-C	5.58	117.81	111.11
3	D	840	LYS	N-CA-C	5.58	117.05	110.97
3	I	1208	ASP	N-CA-C	5.57	122.67	110.80
3	N	1095	THR	N-CA-C	-5.56	104.63	111.75
4	O	47	LYS	N-CA-C	5.56	117.52	109.07
3	I	1172	HIS	N-CA-C	-5.55	105.31	111.36
2	H	430	VAL	N-CA-C	-5.55	99.59	107.98
4	E	47	LYS	N-CA-C	5.53	117.48	109.07
3	D	400	VAL	N-CA-C	5.53	115.81	107.80
2	M	1038	TRP	N-CA-C	-5.53	104.48	111.11
2	H	863	ASP	N-CA-C	-5.52	101.47	110.20
3	N	810	GLU	N-CA-C	-5.52	105.67	112.90
2	H	996	LYS	N-CA-C	-5.52	101.29	110.17
2	H	795	GLY	N-CA-C	-5.50	100.15	113.18
2	C	430	VAL	N-CA-C	-5.50	99.68	107.98
3	I	1091	SER	N-CA-C	5.50	119.28	112.24
3	N	1154	GLU	N-CA-C	-5.49	100.84	109.25
7	X	71	ARG	N-CA-C	5.49	117.48	110.61
3	D	804	LEU	N-CA-CB	-5.49	101.21	110.49
3	N	515	GLU	N-CA-C	-5.49	106.43	114.39
3	N	717	GLN	CA-C-N	-5.48	114.07	119.99
3	N	717	GLN	C-N-CA	-5.48	114.07	119.99

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	872	ASN	CA-C-N	5.48	125.14	119.05
2	C	872	ASN	C-N-CA	5.48	125.14	119.05
1	L	91	ASN	N-CA-C	5.48	114.61	108.25
3	N	729	HIS	CA-C-N	5.48	124.94	119.24
3	N	729	HIS	C-N-CA	5.48	124.94	119.24
2	M	853	LEU	N-CA-C	5.47	116.96	110.07
2	M	149	THR	CA-C-N	5.47	125.47	119.89
2	M	149	THR	C-N-CA	5.47	125.47	119.89
2	H	683	ASN	N-CA-C	-5.46	103.89	110.44
2	C	361	MET	N-CA-C	-5.45	105.74	112.38
3	I	400	VAL	N-CA-C	5.45	115.70	107.80
3	I	738	ALA	N-CA-C	5.45	117.50	108.13
3	I	562	ALA	N-CA-C	5.42	121.80	109.81
7	Z	48	LEU	N-CA-C	5.42	118.02	111.40
3	D	1355	VAL	CB-CA-C	-5.42	104.78	111.94
2	M	252	LYS	N-CA-C	-5.41	106.71	113.15
3	N	400	VAL	N-CA-C	5.41	115.65	107.80
2	C	525	SER	CA-C-N	5.41	125.74	119.47
2	C	525	SER	C-N-CA	5.41	125.74	119.47
2	M	224	GLU	N-CA-C	5.41	117.81	107.75
2	M	310	LEU	N-CA-C	-5.41	105.47	111.36
1	K	8	ALA	CA-C-N	5.40	126.60	119.84
1	K	8	ALA	C-N-CA	5.40	126.60	119.84
3	N	1210	SER	N-CA-C	-5.40	102.47	111.37
2	H	198	ARG	N-CA-C	-5.39	105.30	111.07
3	D	622	ARG	N-CA-C	5.39	118.72	110.20
2	M	795	GLY	N-CA-C	-5.39	100.41	113.18
2	M	76	PRO	CA-C-N	5.39	126.57	119.84
2	M	76	PRO	C-N-CA	5.39	126.57	119.84
2	M	421	GLU	N-CA-C	5.38	119.79	112.04
3	D	813	LEU	N-CA-C	-5.38	105.33	111.14
3	I	509	PRO	N-CA-C	5.38	120.91	113.65
2	M	870	ILE	CB-CA-C	-5.37	103.72	111.19
7	Y	121	ASP	N-CA-C	-5.37	105.11	110.97
1	A	80	LEU	N-CA-C	-5.37	105.34	111.14
3	D	56	TYR	N-CA-C	5.37	119.78	113.23
1	F	48	ILE	CA-C-N	5.37	127.27	120.51
1	F	48	ILE	C-N-CA	5.37	127.27	120.51
3	N	56	TYR	CB-CA-C	-5.37	102.33	110.06
1	K	75	VAL	CB-CA-C	-5.36	105.01	112.04
3	D	1201	CYS	N-CA-C	5.36	118.45	110.52
3	D	800	LYS	N-CA-C	5.36	117.55	108.02

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	H	167	LYS	N-CA-C	5.35	117.12	111.28
1	L	195	LEU	N-CA-C	5.35	117.03	108.41
2	M	1008	ARG	N-CA-C	5.35	118.20	109.59
2	M	640	ARG	CB-CA-C	-5.35	104.88	110.17
3	N	813	LEU	N-CA-C	-5.35	105.37	111.14
3	N	1107	VAL	N-CA-C	5.35	115.22	106.72
5	P	21	DG	C2'-C3'-O3'	-5.35	103.48	111.50
2	C	1038	TRP	N-CA-C	-5.34	104.70	111.11
3	N	785	ILE	CB-CA-C	-5.34	104.86	111.70
3	N	388	HIS	N-CA-C	5.34	120.47	112.94
3	D	807	ALA	N-CA-C	-5.34	104.92	111.75
3	N	921	ARG	N-CA-C	5.33	119.86	112.45
3	I	64	LYS	N-CA-C	5.33	121.61	113.61
3	D	1044	LEU	N-CA-C	5.32	118.09	107.62
2	H	280	LYS	N-CA-C	5.31	117.48	111.11
3	N	1201	CYS	N-CA-C	5.31	118.38	110.52
3	I	515	GLU	N-CA-C	-5.30	106.58	114.64
2	M	553	ASP	N-CA-C	5.30	117.06	108.41
2	H	325	ILE	N-CA-C	5.30	120.37	109.34
2	M	112	GLU	N-CA-C	5.30	116.67	107.93
3	N	840	LYS	N-CA-C	5.30	116.74	110.97
2	H	359	MET	N-CA-C	-5.30	106.98	113.50
2	M	865	THR	N-CA-C	5.30	121.52	109.81
3	I	1015	TYR	CA-C-N	5.29	125.61	119.47
3	I	1015	TYR	C-N-CA	5.29	125.61	119.47
2	C	34	VAL	CA-C-N	5.29	125.83	120.38
2	C	34	VAL	C-N-CA	5.29	125.83	120.38
2	M	209	ARG	N-CA-C	5.29	117.13	111.36
3	N	41	ARG	CB-CA-C	-5.29	109.45	117.07
3	D	1383	ASP	CA-C-N	5.29	125.75	120.14
3	D	1383	ASP	C-N-CA	5.29	125.75	120.14
3	D	28	LYS	CA-C-N	5.29	126.45	119.84
3	D	28	LYS	C-N-CA	5.29	126.45	119.84
1	B	61	VAL	N-CA-C	5.28	116.90	108.87
3	D	1095	THR	N-CA-C	-5.27	105.65	111.71
3	I	1066	THR	N-CA-C	5.27	116.89	110.41
2	H	209	ARG	N-CA-C	5.26	117.10	111.36
3	I	1154	GLU	N-CA-C	-5.26	100.59	108.96
1	A	176	ARG	N-CA-C	5.26	117.74	108.75
3	D	1260	ILE	N-CA-C	-5.26	105.48	110.42
1	L	83	LYS	N-CA-C	-5.26	105.55	111.28
3	D	1317	ASP	CA-C-N	5.25	128.54	120.82

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	D	1317	ASP	C-N-CA	5.25	128.54	120.82
3	I	1107	VAL	N-CA-C	5.24	115.62	107.28
3	N	1015	TYR	CA-C-N	5.24	125.55	119.47
3	N	1015	TYR	C-N-CA	5.24	125.55	119.47
2	H	235	LEU	N-CA-C	-5.24	105.65	111.36
2	H	21	ILE	CB-CA-C	-5.23	105.19	111.88
3	N	100	ALA	N-CA-C	5.23	117.63	109.52
3	N	802	ALA	N-CA-C	5.22	116.23	108.86
3	D	22	SER	N-CA-C	5.22	118.00	110.28
3	I	1101	VAL	N-CA-C	5.22	116.30	111.81
2	M	361	MET	N-CA-C	-5.22	106.61	112.87
3	D	921	ARG	N-CA-C	5.22	119.55	112.04
1	K	33	GLY	N-CA-C	-5.22	106.47	112.83
2	M	863	ASP	N-CA-C	-5.22	101.96	110.20
3	I	818	ARG	N-CA-C	-5.21	106.60	113.12
2	H	250	ARG	N-CA-C	5.21	121.90	110.80
3	D	803	GLY	CA-C-N	5.21	131.49	121.54
3	D	803	GLY	C-N-CA	5.21	131.49	121.54
3	I	19	ARG	N-CA-C	-5.21	105.78	111.82
3	N	185	VAL	N-CA-C	5.21	115.46	108.17
3	N	779	ALA	N-CA-C	-5.21	106.78	112.72
2	C	717	LEU	N-CA-C	-5.21	106.98	113.38
2	M	327	HIS	N-CA-C	-5.21	102.49	110.30
2	M	980	GLY	N-CA-C	-5.21	108.65	115.47
2	H	717	LEU	N-CA-C	-5.20	107.10	113.50
3	D	1381	VAL	N-CA-C	5.20	115.39	108.11
2	C	52	PHE	CA-C-N	-5.20	113.34	119.84
2	C	52	PHE	C-N-CA	-5.20	113.34	119.84
2	C	378	LEU	N-CA-C	5.20	117.69	111.71
3	I	721	VAL	N-CA-C	5.20	116.19	108.65
4	J	57	ASP	N-CA-C	5.20	121.30	109.81
3	N	344	ASP	N-CA-C	5.20	116.97	108.55
2	C	547	ILE	N-CA-C	5.19	112.28	107.56
7	Z	119	ILE	CB-CA-C	-5.19	103.66	110.98
2	C	674	VAL	N-CA-C	5.18	115.59	108.12
3	N	1400	VAL	CB-CA-C	-5.18	105.25	112.04
3	N	22	SER	N-CA-C	5.17	118.38	110.20
7	Y	71	ARG	N-CA-C	5.17	117.08	110.61
1	F	184	THR	N-CA-C	5.17	117.38	110.35
3	I	1117	TYR	N-CA-C	5.17	118.11	110.46
2	C	191	PHE	CA-C-N	5.17	126.30	119.84
2	C	191	PHE	C-N-CA	5.17	126.30	119.84

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	J	51	LEU	N-CA-C	-5.17	99.68	108.26
3	N	1340	GLY	CA-C-N	5.17	126.30	119.84
3	N	1340	GLY	C-N-CA	5.17	126.30	119.84
2	H	1053	LEU	N-CA-C	5.17	116.91	111.28
3	N	97	THR	CA-C-N	5.17	126.30	119.84
3	N	97	THR	C-N-CA	5.17	126.30	119.84
3	D	133	ILE	N-CA-C	5.17	115.68	110.05
2	M	928	LYS	N-CA-C	-5.16	105.83	111.82
3	D	51	GLY	CA-C-N	5.16	126.29	119.84
3	D	51	GLY	C-N-CA	5.16	126.29	119.84
2	M	177	GLU	CA-C-N	5.16	126.29	119.84
2	M	177	GLU	C-N-CA	5.16	126.29	119.84
3	N	401	TYR	CA-C-N	5.16	124.92	119.76
3	N	401	TYR	C-N-CA	5.16	124.92	119.76
3	N	1391	GLU	N-CA-C	5.16	118.12	110.48
3	I	1201	CYS	N-CA-C	5.16	118.15	110.52
3	I	100	ALA	N-CA-C	5.15	117.99	109.85
3	N	738	ALA	N-CA-C	5.15	116.99	108.13
3	D	1420	LEU	N-CA-C	5.15	116.80	108.41
2	H	726	ILE	CA-C-N	5.15	126.27	119.84
2	H	726	ILE	C-N-CA	5.15	126.27	119.84
2	H	593	ALA	N-CA-C	-5.15	104.60	111.24
3	D	1286	THR	N-CA-C	5.14	121.76	110.80
2	H	310	LEU	N-CA-C	-5.14	105.75	111.36
2	M	242	LEU	N-CA-C	-5.14	103.55	110.24
2	C	114	PHE	N-CA-C	-5.14	101.38	109.25
3	D	623	VAL	N-CA-C	5.14	116.69	108.87
2	C	309	TYR	N-CA-C	-5.14	106.86	113.23
2	H	514	VAL	N-CA-C	5.13	116.63	109.80
3	D	1399	ASP	N-CA-C	-5.13	106.97	113.18
2	C	487	THR	N-CA-C	-5.12	102.11	110.20
3	I	1266	ARG	N-CA-C	5.12	116.77	109.14
2	C	242	LEU	N-CA-C	-5.12	103.58	110.24
2	C	326	ASP	N-CA-C	5.11	119.15	113.01
3	D	1340	GLY	CA-C-N	5.11	126.23	119.84
3	D	1340	GLY	C-N-CA	5.11	126.23	119.84
2	C	863	ASP	N-CA-C	-5.11	102.13	110.20
2	H	893	ALA	N-CA-C	-5.11	105.62	111.14
2	M	250	ARG	N-CA-C	5.11	121.67	110.80
2	M	716	LYS	N-CA-C	-5.11	107.02	113.20
2	C	601	GLY	N-CA-C	5.10	117.47	110.58
2	M	879	ARG	N-CA-C	-5.09	102.75	110.28

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	N	517	VAL	N-CA-C	5.09	112.19	107.56
3	I	1078	ARG	N-CA-C	-5.08	105.39	111.03
1	K	68	ILE	CA-C-N	5.08	126.19	119.84
1	K	68	ILE	C-N-CA	5.08	126.19	119.84
3	N	825	ALA	CA-C-N	5.08	124.98	119.85
3	N	825	ALA	C-N-CA	5.08	124.98	119.85
3	N	853	VAL	N-CA-C	-5.08	105.65	110.42
7	Z	75	LEU	N-CA-C	5.08	116.92	107.99
3	D	1283	ILE	N-CA-C	5.06	116.65	108.85
3	N	1105	ILE	CB-CA-C	-5.06	104.57	111.15
3	N	1060	SER	N-CA-C	-5.05	102.72	110.14
2	H	163	ILE	CB-CA-C	-5.05	105.31	110.71
3	D	517	VAL	N-CA-C	5.04	112.15	107.56
3	D	738	ALA	N-CA-C	5.04	116.80	108.13
3	D	866	VAL	N-CA-C	5.04	115.53	108.17
3	I	1318	TYR	N-CA-C	5.04	116.79	110.24
3	D	805	GLU	N-CA-C	5.04	117.28	108.52
2	H	118	ILE	CA-C-N	5.03	125.31	119.92
2	H	118	ILE	C-N-CA	5.03	125.31	119.92
3	I	399	ARG	N-CA-C	-5.03	101.67	109.72
3	I	1469	GLY	N-CA-C	-5.03	108.38	115.32
2	H	674	VAL	N-CA-C	5.03	115.36	108.12
2	M	293	PHE	N-CA-C	-5.03	105.87	112.41
3	D	100	ALA	N-CA-C	5.03	117.79	109.85
5	P	23	DC	C2'-C3'-O3'	-5.03	103.96	111.50
3	I	808	THR	N-CA-C	5.02	120.91	109.81
7	Y	140	LEU	N-CA-C	-5.02	101.47	108.96
3	D	1172	HIS	N-CA-C	-5.02	105.72	111.14
1	A	227	ASN	CA-C-N	5.02	126.11	119.84
1	A	227	ASN	C-N-CA	5.02	126.11	119.84
3	D	1427	SER	N-CA-C	-5.02	105.89	111.36
3	N	118	LEU	N-CA-C	-5.01	103.04	110.46
3	D	1293	PHE	N-CA-C	5.01	116.85	107.99
2	C	683	ASN	N-CA-C	-5.00	104.44	110.44

There are no chirality outliers.

All (9) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
2	C	258	TYR	Sidechain
2	C	71	TYR	Sidechain
2	H	71	TYR	Sidechain

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Group
3	I	1070	TYR	Sidechain
2	M	258	TYR	Sidechain
3	N	56	TYR	Sidechain
5	P	24	DG	Sidechain
6	Q	10	G	Sidechain
7	Z	43	TYR	Sidechain

5.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	1759	0	1805	218	0
1	B	1759	0	1805	230	0
1	F	1750	0	1792	264	0
1	G	1759	0	1805	237	0
1	K	1750	0	1792	202	0
1	L	1759	0	1805	200	0
2	C	8733	0	8834	1435	1
2	H	8710	0	8811	1470	2
2	M	8729	0	8831	1433	0
3	D	10651	0	10880	1804	2
3	I	10182	0	10418	1590	0
3	N	10667	0	10894	1687	1
4	E	754	0	769	100	0
4	J	749	0	764	110	0
4	O	754	0	769	110	0
5	P	120	0	67	10	0
6	Q	152	0	78	7	0
7	X	1169	0	1186	116	0
7	Y	1169	0	1186	132	0
7	Z	1169	0	1186	152	0
8	D	1	0	0	0	0
8	I	1	0	0	0	0
8	N	1	0	0	0	0
9	D	1	0	0	0	0
9	I	1	0	0	0	0
9	N	1	0	0	0	0
All	All	74250	0	75477	10688	3

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 71.

All (10688) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:282:GLY:O	2:H:283:ILE:HG13	1.34	1.25
3:D:1093:TYR:OH	3:D:1097:LYS:HE3	1.07	1.25
3:D:1093:TYR:OH	3:D:1097:LYS:CE	1.85	1.23
2:C:987:ILE:HG23	3:D:948:THR:HG21	1.20	1.20
3:I:108:VAL:HB	3:I:109:PRO:HD3	1.20	1.19
7:Z:120:SER:HB2	7:Z:123:SER:HB2	1.26	1.18
3:D:1481:VAL:HG11	4:E:18:ARG:HA	1.19	1.17
2:C:239:PHE:CZ	2:C:252:LYS:HA	1.77	1.17
4:J:54:LEU:CG	4:J:58:PRO:HG2	1.75	1.16
3:N:356:PRO:HA	3:N:440:VAL:O	1.45	1.16
2:H:425:PHE:CE1	3:I:1079:LYS:NZ	2.12	1.15
1:F:42:ARG:HH12	2:H:857:ASP:HB3	1.08	1.15
2:H:495:THR:HG21	2:H:517:ARG:HH21	1.10	1.15
3:D:119:SER:HB2	3:D:123:LEU:HB2	1.18	1.15
2:H:1046:ALA:HB1	3:I:1471:LEU:HD11	1.23	1.15
2:H:987:ILE:HG23	3:I:948:THR:HG21	1.25	1.14
2:C:290:LEU:HB3	2:C:302:VAL:HG11	1.16	1.14
2:C:408:ARG:HH21	2:C:455:LEU:HD11	0.99	1.14
3:I:164:GLY:O	2:M:209:ARG:HG2	1.44	1.14
1:A:35:THR:HG21	1:B:43:ILE:HD11	1.24	1.14
3:D:809:PRO:HB2	3:D:812:ALA:HB2	1.23	1.14
2:C:1090:LYS:HE3	3:D:90:MET:HG3	1.27	1.14
1:K:206:THR:HG22	1:K:209:GLU:HG3	1.27	1.13
2:C:486:MET:HE3	2:C:491:GLU:HA	1.24	1.13
2:C:861:LEU:HG	2:C:862:PRO:HD2	1.31	1.13
2:C:675:ALA:HA	2:C:989:VAL:HG12	1.25	1.13
3:I:800:LYS:HG2	3:I:826:PRO:CD	1.78	1.13
2:H:101:ILE:HG23	2:H:107:LEU:HD22	1.20	1.12
2:H:445:GLU:HG3	2:H:560:MET:HE3	1.29	1.12
1:L:62:LEU:HD12	1:L:63:HIS:H	1.13	1.12
1:B:74:ASP:HB2	3:D:872:ARG:HH22	1.00	1.12
1:A:42:ARG:HH12	1:B:34:VAL:HB	1.03	1.12
3:D:87:ARG:HB3	3:D:523:ASP:HB2	1.23	1.12
3:I:1211:MET:HG2	3:I:1212:ALA:H	1.01	1.12
3:N:1095:THR:O	3:N:1099:VAL:HG23	1.48	1.12
2:C:144:PRO:HG2	2:C:265:ARG:NH1	1.65	1.12
3:N:1379:VAL:HG12	3:N:1419:PRO:HA	1.30	1.12

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:144:PRO:HG2	2:C:265:ARG:HH12	1.11	1.11
3:N:143:ASN:HA	3:N:161:LEU:HD21	1.33	1.11
2:C:834:GLN:HE22	3:D:724:GLN:HG3	1.12	1.11
3:N:984:THR:CG2	3:N:987:GLU:HG2	1.80	1.11
3:D:785:ILE:H	3:D:785:ILE:HD12	1.14	1.10
1:K:58:ILE:HD13	1:K:140:MET:HB3	1.34	1.10
2:C:274:ARG:HB2	2:C:285:LEU:HD13	1.33	1.10
2:H:170:PRO:HG2	2:H:258:TYR:HE2	0.97	1.10
2:H:170:PRO:HG2	2:H:258:TYR:CE2	1.87	1.10
2:M:689:VAL:HB	2:M:870:ILE:HG12	1.31	1.10
3:N:356:PRO:HB2	3:N:359:ALA:HB2	1.10	1.10
3:N:908:LYS:HB2	3:N:1027:GLY:HA3	1.28	1.10
2:H:544:THR:O	2:H:547:ILE:HD12	1.52	1.10
3:N:643:GLY:HA3	3:N:727:GLN:HB2	1.24	1.10
4:O:54:LEU:CG	4:O:58:PRO:HG2	1.81	1.10
2:C:1081:VAL:HG21	2:C:1111:ILE:HG22	1.15	1.09
3:I:800:LYS:HG2	3:I:826:PRO:HD3	1.24	1.09
3:N:1481:VAL:HG11	4:O:18:ARG:HA	1.17	1.09
7:Y:112:VAL:HG13	7:Y:117:MET:HE3	1.33	1.09
2:C:1082:PRO:HG2	3:D:1469:GLY:HA3	1.34	1.09
3:N:108:VAL:HB	3:N:109:PRO:HD3	1.33	1.09
2:C:1046:ALA:HB1	3:D:1471:LEU:HD11	1.32	1.09
3:I:181:ASP:HB3	3:I:441:ARG:HD3	1.33	1.09
2:M:445:GLU:HG3	2:M:560:MET:HE3	1.35	1.09
3:D:1087:ARG:NH2	7:X:43:TYR:CE2	2.19	1.09
3:D:1123:PHE:HE2	3:D:1184:GLN:HA	1.16	1.09
2:M:1046:ALA:HB1	3:N:1471:LEU:HD11	1.14	1.09
3:N:827:ILE:HD12	3:N:827:ILE:H	1.16	1.09
3:N:1235:GLN:HB2	7:Z:37:MET:HE3	1.17	1.08
2:C:1086:ARG:HB2	2:C:1112:PHE:HE2	1.16	1.08
2:C:325:ILE:HD12	2:C:325:ILE:H	1.18	1.08
3:D:137:PRO:HG3	3:D:453:ASP:H	0.96	1.08
2:H:556:ASN:ND2	7:Y:45:ASP:OD1	1.84	1.08
4:J:54:LEU:HG	4:J:58:PRO:CG	1.81	1.08
1:G:30:ARG:HH22	2:H:854:PRO:HG3	1.18	1.07
7:X:102:VAL:HG21	7:X:125:MET:HE1	1.27	1.07
3:D:133:ILE:O	3:D:152:LEU:HB2	1.53	1.07
2:H:857:ASP:HB2	2:H:978:ARG:HG2	1.34	1.07
3:I:543:LEU:HD22	3:I:580:ALA:HB1	1.36	1.07
2:C:1092:LEU:HD13	2:C:1099:VAL:HG21	1.32	1.07
2:M:1082:PRO:HG2	3:N:1469:GLY:HA3	1.37	1.07

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:141:HIS:HB3	2:C:418:LEU:HD23	1.36	1.07
3:N:109:PRO:HB3	3:N:494:LYS:NZ	1.68	1.07
3:D:804:LEU:HB2	3:D:831:GLY:HA2	1.31	1.06
2:M:110:GLU:HG3	2:M:369:PRO:HB3	1.36	1.06
3:N:1235:GLN:HE21	7:Z:37:MET:HG2	1.14	1.06
2:C:878:SER:HA	3:D:1034:GLN:HE22	0.97	1.06
2:H:191:PHE:HZ	2:H:196:LEU:HB2	1.18	1.06
3:N:137:PRO:HG3	3:N:453:ASP:H	0.97	1.06
3:N:1211:MET:HG2	3:N:1212:ALA:H	1.14	1.06
3:I:521:PRO:HB2	3:I:524:LEU:HD13	1.37	1.05
3:I:1320:GLU:HG2	3:I:1339:LYS:NZ	1.69	1.05
3:D:176:ASP:HB3	3:D:389:GLU:HG2	1.07	1.05
3:D:949:ILE:HD11	3:D:1023:MET:HE1	1.38	1.05
3:D:1087:ARG:NH2	7:X:43:TYR:HE2	1.49	1.05
2:H:110:GLU:HG3	2:H:369:PRO:HG3	1.34	1.05
3:I:29:PRO:HG3	3:I:549:ASN:HD21	1.22	1.05
3:I:1379:VAL:HG12	3:I:1419:PRO:HA	1.34	1.05
2:M:110:GLU:CG	2:M:369:PRO:HB3	1.85	1.05
1:A:184:THR:OG1	1:A:192:LEU:HB2	1.55	1.05
3:D:1166:LEU:HD23	3:D:1166:LEU:H	1.21	1.05
3:I:1209:LEU:HD23	3:I:1211:MET:H	1.21	1.05
3:N:119:SER:HB2	3:N:123:LEU:HB2	1.37	1.05
2:C:939:ARG:HA	2:C:939:ARG:HE	1.14	1.04
2:C:1090:LYS:HE3	3:D:90:MET:CG	1.86	1.04
3:D:643:GLY:HA3	3:D:727:GLN:HB2	1.39	1.04
3:N:705:ALA:HB3	3:N:706:PRO:HD3	1.38	1.04
2:C:578:VAL:HG23	2:C:579:VAL:HG12	1.33	1.04
2:M:1004:LYS:HG2	3:N:630:VAL:HG23	1.37	1.04
3:N:166:GLN:HE22	3:N:394:LEU:HB2	1.19	1.04
2:C:312:ALA:HB1	2:C:318:PRO:HG2	1.39	1.04
2:M:369:PRO:HG2	2:M:370:ALA:H	1.22	1.04
3:N:153:LEU:HD13	3:N:158:TYR:HB2	1.39	1.04
3:N:206:ARG:HA	3:N:206:ARG:HE	1.22	1.04
2:C:265:ARG:HB3	2:C:267:TYR:CE2	1.93	1.03
3:D:631:ILE:HD12	3:D:743:ASP:O	1.57	1.03
2:H:49:ARG:HA	2:H:52:PHE:HD2	1.21	1.03
3:N:206:ARG:HB2	3:N:392:SER:O	1.57	1.03
1:G:56:VAL:HG22	1:G:142:VAL:HG12	1.39	1.03
2:H:290:LEU:HB3	2:H:302:VAL:HG11	1.40	1.03
3:I:820:GLU:HG3	3:I:836:VAL:HG21	1.40	1.03
2:C:69:LEU:HD12	2:C:97:ARG:HB3	1.38	1.03

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:857:ASP:HB2	2:C:978:ARG:HG2	1.36	1.03
3:D:84:ILE:HG22	3:D:87:ARG:HE	1.22	1.03
3:I:163:TYR:HB3	2:M:209:ARG:CZ	1.89	1.03
3:I:1481:VAL:HG11	4:J:18:ARG:HA	1.41	1.03
2:M:74:GLY:O	2:M:76:PRO:HD3	1.58	1.03
3:D:1211:MET:HG2	3:D:1212:ALA:H	1.17	1.03
3:N:820:GLU:HG3	3:N:836:VAL:HG21	1.36	1.03
2:H:69:LEU:HD12	2:H:97:ARG:HB3	1.41	1.03
3:I:119:SER:HB2	3:I:123:LEU:HB2	1.40	1.03
3:I:1472:ILE:HD13	3:I:1472:ILE:H	1.18	1.03
3:D:1066:THR:HG22	3:D:1069:GLU:HB2	1.37	1.02
3:N:470:LEU:HB2	3:N:503:LEU:HD21	1.39	1.02
3:D:1372:VAL:HA	3:D:1375:MET:HE3	1.39	1.02
3:I:1320:GLU:HG2	3:I:1339:LYS:HZ1	0.88	1.02
3:I:1025:GLN:HA	3:I:1025:GLN:HE21	1.19	1.02
2:M:874:LEU:O	3:N:1029:ARG:HD2	1.59	1.02
3:N:87:ARG:HB3	3:N:523:ASP:HB2	1.42	1.02
4:O:54:LEU:HG	4:O:58:PRO:HG2	1.03	1.02
3:I:807:ALA:HA	3:I:833:GLU:HG2	1.40	1.02
3:N:843:PHE:HE1	3:N:864:VAL:HG11	1.24	1.02
2:H:110:GLU:HG3	2:H:369:PRO:CG	1.88	1.02
2:H:689:VAL:HB	2:H:870:ILE:HG13	1.40	1.02
3:I:137:PRO:HD3	3:I:453:ASP:O	1.58	1.02
3:N:983:LEU:HD23	3:N:983:LEU:H	1.24	1.02
3:N:1352:ILE:O	3:N:1355:VAL:HG23	1.58	1.02
2:H:165:LEU:HG	2:H:166:PRO:HA	1.42	1.01
2:H:606:VAL:HG23	2:H:645:VAL:HG13	1.42	1.01
3:I:29:PRO:HG3	3:I:549:ASN:ND2	1.74	1.01
3:I:809:PRO:HB2	3:I:812:ALA:HB2	1.39	1.01
3:I:1253:THR:HG23	3:I:1258:ARG:HD3	1.42	1.01
2:M:52:PHE:CG	2:M:68:PHE:HB2	1.96	1.01
3:N:357:GLU:CG	3:N:441:ARG:HG2	1.91	1.01
3:N:1389:LEU:O	3:N:1390:LEU:HB2	1.60	1.01
1:F:188:GLN:NE2	1:F:188:GLN:H	1.59	1.01
2:M:979:THR:HG23	2:M:981:GLU:H	1.25	1.01
2:M:1004:LYS:HD2	3:N:744:GLN:NE2	1.73	1.01
3:N:397:LYS:HG2	3:N:448:GLU:HB2	1.42	1.01
1:B:86:VAL:HG12	1:B:124:ASN:HB2	1.42	1.01
2:C:544:THR:O	2:C:547:ILE:HD12	1.61	1.01
3:D:804:LEU:HD13	3:D:830:ALA:O	1.60	1.01
2:M:455:LEU:HD13	2:M:459:ALA:HB3	1.41	1.01

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:603:VAL:HA	2:C:613:VAL:HG12	1.38	1.01
1:B:212:ASN:O	1:B:215:VAL:HG22	1.61	1.00
2:C:305:PRO:HA	2:C:308:ARG:HB2	1.42	1.00
2:C:678:PRO:HG2	3:D:947:ILE:HD11	1.37	1.00
2:C:794:PRO:HG2	2:C:1025:ALA:O	1.60	1.00
2:M:861:LEU:HG	2:M:862:PRO:HD2	1.43	1.00
1:A:156:HIS:HD2	1:A:157:GLY:H	1.07	1.00
2:C:958:THR:HG23	2:C:961:GLU:HG3	1.38	1.00
3:D:137:PRO:HD3	3:D:453:ASP:O	1.61	1.00
2:M:395:LYS:HE2	2:M:403:SER:HB2	1.42	1.00
1:B:34:VAL:HG22	1:B:181:VAL:HG21	1.40	1.00
2:C:950:LEU:HB3	2:C:952:LEU:HD23	1.43	1.00
2:H:1024:LYS:HG3	2:H:1025:ALA:H	1.26	1.00
3:N:771:SER:HB3	3:N:778:LEU:HD13	1.44	1.00
3:D:764:LEU:HD12	3:D:765:SER:N	1.76	1.00
3:N:984:THR:HG22	3:N:987:GLU:CG	1.90	1.00
2:H:1049:LEU:HD23	3:I:1472:ILE:HD12	1.42	1.00
3:I:1112:CYS:SG	3:I:1195:GLN:HG2	2.02	1.00
2:M:73:LEU:HD23	2:M:94:LEU:HB2	1.43	1.00
2:C:565:GLN:HE21	2:C:842:ARG:HG2	1.23	1.00
3:I:908:LYS:HB2	3:I:1027:GLY:HA3	1.43	1.00
1:K:44:LEU:HD23	1:K:48:ILE:HD11	1.43	1.00
2:M:290:LEU:HB3	2:M:302:VAL:HG11	1.43	1.00
2:H:383:ARG:HB2	2:H:383:ARG:HH11	1.23	1.00
4:J:54:LEU:HG	4:J:58:PRO:HG2	1.03	1.00
2:M:212:GLY:HA3	2:M:218:VAL:HG21	1.44	1.00
3:N:996:TRP:HA	3:N:999:THR:HG22	1.44	1.00
2:C:368:THR:HB	2:C:369:PRO:CD	1.92	0.99
3:D:116:LEU:HD22	3:D:118:LEU:HG	1.39	0.99
2:H:368:THR:HB	2:H:369:PRO:HD3	1.44	0.99
2:M:367:LEU:HB3	2:M:371:LYS:HE2	1.41	0.99
3:D:947:ILE:HD12	3:D:947:ILE:O	1.60	0.99
3:I:28:LYS:HD2	3:I:29:PRO:HD2	1.42	0.99
3:D:52:PRO:HB2	3:D:80:VAL:HG11	1.39	0.99
3:D:834:THR:HB	3:D:838:ARG:HD3	1.44	0.99
3:I:1147:ARG:HB3	3:I:1188:VAL:HG21	1.45	0.99
3:I:1018:ASN:O	3:I:1022:VAL:HG23	1.62	0.99
2:M:157:ARG:CZ	2:M:314:THR:HB	1.91	0.99
2:M:182:VAL:HG12	2:M:193:LEU:HD22	1.44	0.99
3:N:28:LYS:HD2	3:N:29:PRO:HD2	1.41	0.99
3:N:50:PHE:CD2	3:N:522:PRO:HD3	1.98	0.99

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:212:GLY:CA	2:M:218:VAL:HG21	1.92	0.99
2:M:312:ALA:HB1	2:M:318:PRO:HG2	1.44	0.99
3:D:1468:LEU:HD22	3:D:1470:ARG:HB2	1.41	0.99
2:H:691:SER:HB2	2:H:858:MET:SD	2.03	0.99
2:H:12:VAL:HG22	2:H:13:ILE:HG23	1.43	0.98
1:K:101:LEU:HD22	1:K:140:MET:HE2	1.41	0.98
3:N:809:PRO:HB2	3:N:812:ALA:HB2	1.44	0.98
3:N:357:GLU:HG3	3:N:441:ARG:HG2	0.99	0.98
4:E:18:ARG:HH21	4:E:18:ARG:HB2	1.23	0.98
2:H:565:GLN:NE2	2:H:842:ARG:HG2	1.78	0.98
3:N:366:LYS:HE2	3:N:369:ALA:HB2	1.45	0.98
2:C:1065:ALA:HB1	2:C:1077:PRO:HG2	1.41	0.98
3:D:137:PRO:HG3	3:D:453:ASP:N	1.79	0.98
2:M:267:TYR:HB2	2:M:272:ALA:CB	1.93	0.98
3:N:128:TYR:HE2	3:N:458:ALA:HA	1.27	0.98
2:H:312:ALA:HB1	2:H:318:PRO:HG2	1.45	0.98
1:K:218:LEU:HD23	1:L:222:LEU:HD21	1.45	0.98
3:N:119:SER:CB	3:N:123:LEU:HB2	1.93	0.98
3:N:813:LEU:O	3:N:817:GLU:HB2	1.62	0.98
2:H:1004:LYS:HD2	3:I:744:GLN:NE2	1.79	0.98
4:O:54:LEU:HG	4:O:58:PRO:CG	1.94	0.98
3:D:637:LEU:HD21	3:D:642:CYS:HA	1.41	0.98
3:I:134:VAL:HG21	3:I:460:ALA:HB1	1.46	0.98
1:L:74:ASP:HB2	3:N:872:ARG:HH22	1.28	0.98
3:N:95:LEU:HD21	3:N:574:LEU:HD11	1.42	0.97
2:C:1086:ARG:HB2	2:C:1112:PHE:CE2	2.00	0.97
3:D:207:PHE:O	3:D:390:PRO:HA	1.64	0.97
3:D:764:LEU:HD12	3:D:765:SER:H	1.26	0.97
3:D:1205:TYR:CD2	3:D:1215:VAL:HG21	2.00	0.97
3:N:864:VAL:HG12	3:N:865:THR:H	1.28	0.97
3:I:799:LYS:O	3:I:800:LYS:HD3	1.63	0.97
3:I:1352:ILE:HG21	3:I:1368:ILE:HD12	1.45	0.97
2:M:267:TYR:HB2	2:M:272:ALA:HB1	1.47	0.97
2:C:224:GLU:O	2:C:228:ALA:HB3	1.64	0.97
3:I:1106:VAL:HG12	3:I:1107:VAL:H	1.28	0.97
2:M:606:VAL:HG23	2:M:645:VAL:HG13	1.45	0.97
3:N:357:GLU:HG3	3:N:441:ARG:CG	1.94	0.97
2:C:836:GLY:HA3	2:C:1001:VAL:HG21	1.47	0.97
2:C:1061:GLU:OE2	3:D:84:ILE:HD12	1.64	0.97
2:M:885:ILE:H	2:M:885:ILE:HD12	1.30	0.97
3:D:209:ARG:HB2	3:D:389:GLU:HB3	1.46	0.96

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1097:LEU:HD11	3:N:1451:ALA:CB	1.95	0.96
3:D:513:ILE:HD12	3:D:513:ILE:O	1.65	0.96
3:I:1372:VAL:HA	3:I:1375:MET:HE3	1.43	0.96
2:M:418:LEU:H	2:M:418:LEU:HD12	1.27	0.96
1:A:58:ILE:HD13	1:A:140:MET:HB3	1.43	0.96
3:I:87:ARG:HB3	3:I:523:ASP:HB2	1.45	0.96
3:I:906:GLN:HB3	3:I:911:LEU:HD11	1.48	0.96
2:C:1105:LYS:HD2	2:C:1107:ASN:HD22	1.27	0.96
2:H:395:LYS:HE2	2:H:403:SER:HB2	1.44	0.96
3:D:388:HIS:O	3:D:390:PRO:HD3	1.66	0.96
3:D:465:LEU:HD21	3:D:509:PRO:HB2	1.44	0.96
2:H:272:ALA:HA	2:H:464:LEU:HD21	1.47	0.96
2:H:1018:GLN:HA	2:H:1018:GLN:HE21	1.31	0.96
2:M:98:LEU:HD11	2:M:113:VAL:HG22	1.45	0.96
3:N:806:PHE:CE1	3:N:813:LEU:HB3	1.99	0.96
3:D:1263:PHE:CE2	3:D:1371:VAL:HG11	2.01	0.96
3:D:771:SER:HB2	3:D:778:LEU:HD13	1.47	0.95
1:B:228:PRO:O	1:B:229:GLN:HG3	1.66	0.95
1:G:86:VAL:HG12	1:G:124:ASN:HB2	1.45	0.95
3:I:1161:GLU:OE2	3:I:1164:ARG:HD2	1.66	0.95
2:M:64:LEU:HD22	2:M:359:MET:HG3	1.45	0.95
2:C:572:ILE:HD12	2:C:573:ARG:H	1.32	0.95
2:C:988:VAL:HG11	3:D:949:ILE:O	1.64	0.95
3:D:179:VAL:HG13	3:D:183:GLU:HB3	1.44	0.95
3:D:890:VAL:HG11	3:D:922:LEU:HD12	1.46	0.95
2:H:376:ARG:HH12	2:H:380:ALA:HB2	1.30	0.95
2:H:654:LEU:HD23	2:H:654:LEU:H	1.28	0.95
1:K:184:THR:OG1	1:K:192:LEU:HB2	1.67	0.95
3:D:351:MET:HG3	3:D:370:ALA:HB2	1.45	0.95
3:D:809:PRO:HB2	3:D:812:ALA:CB	1.96	0.95
3:N:804:LEU:HD22	3:N:831:GLY:HA3	1.45	0.95
2:C:195:LEU:O	2:C:199:VAL:HG23	1.64	0.95
3:D:1235:GLN:HB2	7:X:37:MET:HE3	1.49	0.95
2:M:674:VAL:HG23	2:M:869:VAL:O	1.66	0.95
3:N:860:LEU:HD23	3:N:877:PRO:HB2	1.49	0.95
2:C:408:ARG:NH2	2:C:455:LEU:HD11	1.81	0.95
3:D:850:LEU:HD12	3:D:850:LEU:H	1.29	0.95
3:I:109:PRO:HB3	3:I:494:LYS:NZ	1.81	0.95
3:N:1263:PHE:HE2	3:N:1371:VAL:HG11	1.32	0.95
3:D:1305:LEU:HD12	3:D:1311:LEU:HD22	1.49	0.95
1:F:42:ARG:NH1	2:H:857:ASP:HB3	1.82	0.95

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:332:ARG:HG3	2:H:465:GLY:HA3	1.48	0.95
2:M:836:GLY:HA3	2:M:1001:VAL:HG21	1.49	0.95
3:N:137:PRO:HD3	3:N:453:ASP:O	1.66	0.95
2:C:878:SER:CA	3:D:1034:GLN:HE22	1.79	0.94
3:D:1205:TYR:HD2	3:D:1215:VAL:HG21	1.31	0.94
1:G:87:VAL:HG21	1:G:144:VAL:HG11	1.47	0.94
2:H:603:VAL:HA	2:H:613:VAL:HG12	1.49	0.94
3:I:101:HIS:HD1	3:I:103:TRP:HB2	1.32	0.94
3:I:1025:GLN:HA	3:I:1025:GLN:NE2	1.73	0.94
1:B:87:VAL:HG21	1:B:144:VAL:HG11	1.47	0.94
3:D:804:LEU:HD23	3:D:804:LEU:H	1.26	0.94
2:H:455:LEU:HD13	2:H:459:ALA:HB3	1.47	0.94
2:M:113:VAL:O	2:M:115:LEU:HD23	1.67	0.94
2:C:332:ARG:HG3	2:C:465:GLY:HA3	1.49	0.94
2:H:836:GLY:HA3	2:H:1001:VAL:HG21	1.49	0.94
7:Z:115:THR:OG1	7:Z:116:PRO:HD3	1.66	0.94
2:C:878:SER:HA	3:D:1034:GLN:NE2	1.80	0.94
3:D:877:PRO:O	3:D:880:ILE:HG22	1.68	0.94
2:H:21:ILE:H	2:H:21:ILE:HD12	1.32	0.94
3:I:800:LYS:HD2	3:I:801:GLY:H	1.29	0.94
2:C:1085:PHE:CE2	3:D:1468:LEU:HG	2.02	0.94
3:D:521:PRO:HB2	3:D:524:LEU:HD13	1.47	0.94
3:D:1093:TYR:CZ	3:D:1097:LYS:CE	2.50	0.94
2:H:498:GLN:HA	2:H:498:GLN:HE21	1.29	0.94
2:M:1097:LEU:HD11	3:N:1451:ALA:HB2	1.48	0.94
1:A:25:LEU:HD23	1:A:28:LEU:HD11	1.47	0.94
2:H:265:ARG:HB3	2:H:267:TYR:CE2	2.02	0.94
2:M:332:ARG:HD2	2:M:464:LEU:O	1.67	0.94
2:C:56:GLU:HG2	2:C:356:ARG:HG3	1.49	0.94
3:D:810:GLU:O	3:D:813:LEU:HG	1.67	0.94
3:I:813:LEU:HD12	3:I:814:ALA:N	1.82	0.94
3:I:1035:ILE:HA	3:I:1038:LEU:HD12	1.50	0.94
3:I:1257:PRO:HA	3:I:1260:ILE:HD12	1.46	0.94
2:H:432:ARG:HH22	3:I:1047:LYS:HD3	1.31	0.94
2:H:504:GLU:HA	2:H:504:GLU:OE2	1.65	0.94
3:N:137:PRO:HG3	3:N:453:ASP:N	1.82	0.94
2:C:21:ILE:H	2:C:21:ILE:HD12	1.32	0.94
2:C:1074:GLU:HG2	2:C:1075:ASP:H	1.32	0.94
3:D:813:LEU:O	3:D:817:GLU:HB2	1.68	0.94
3:D:1099:VAL:O	3:D:1103:HIS:HB3	1.68	0.94
3:N:984:THR:HG22	3:N:987:GLU:HG2	0.95	0.94

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:184:MET:N	2:H:193:LEU:HD11	1.83	0.93
3:I:507:ASN:H	3:I:507:ASN:HD22	0.94	0.93
3:D:29:PRO:HG3	3:D:549:ASN:HD21	1.31	0.93
3:D:119:SER:CB	3:D:123:LEU:HB2	1.99	0.93
2:M:987:ILE:HG23	3:N:948:THR:HG21	1.47	0.93
1:A:189:ARG:HG3	1:A:191:ASP:OD1	1.68	0.93
3:I:185:VAL:HG22	3:I:189:GLN:HE22	1.31	0.93
3:N:795:VAL:HG23	3:N:879:ARG:HH12	1.31	0.93
3:D:101:HIS:HD1	3:D:103:TRP:HB2	1.34	0.93
3:D:1106:VAL:HG12	3:D:1107:VAL:H	1.34	0.93
2:H:196:LEU:O	2:H:199:VAL:HB	1.68	0.93
2:M:571:LEU:HD21	2:M:700:TYR:HA	1.48	0.93
1:B:185:ARG:CZ	3:D:692:GLU:HG2	1.99	0.93
2:H:603:VAL:HG23	2:H:647:GLN:H	1.33	0.93
3:I:996:TRP:O	3:I:1000:THR:HG22	1.69	0.93
2:M:253:ALA:O	2:M:257:VAL:HG23	1.66	0.93
2:C:267:TYR:HB2	2:C:272:ALA:CB	1.99	0.93
2:H:292:ARG:HG2	2:H:299:LYS:HE2	1.47	0.93
3:N:996:TRP:CD2	3:N:1056:PRO:HG2	2.03	0.93
3:N:1285:GLU:O	3:N:1286:THR:HG22	1.68	0.93
1:B:74:ASP:HB2	3:D:872:ARG:NH2	1.82	0.93
2:C:272:ALA:HA	2:C:464:LEU:HD22	1.50	0.93
2:H:134:ARG:HH21	2:H:393:GLN:HA	1.34	0.93
2:H:657:ASP:HB3	2:H:661:SER:O	1.68	0.93
3:D:108:VAL:HB	3:D:109:PRO:HD3	1.50	0.93
3:D:347:VAL:HG13	3:D:351:MET:HB3	1.51	0.93
3:D:899:LEU:HD12	3:D:900:ILE:HG22	1.51	0.93
3:I:17:LYS:HG2	3:I:21:TRP:HE1	1.29	0.93
3:I:795:VAL:HG23	3:I:879:ARG:HH12	1.34	0.93
3:I:1459:LEU:CD2	3:I:1470:ARG:HH21	1.82	0.93
2:M:329:GLY:HA3	2:M:489:THR:HG23	1.50	0.93
2:M:495:THR:HG21	2:M:517:ARG:HH21	1.34	0.93
1:A:42:ARG:NH1	1:B:34:VAL:HB	1.83	0.92
2:H:182:VAL:HG12	2:H:193:LEU:HD22	1.48	0.92
3:N:631:ILE:HD12	3:N:743:ASP:O	1.69	0.92
7:Y:13:GLU:HG2	7:Y:17:GLN:HE21	1.34	0.92
2:C:140:ILE:HD11	2:C:412:ALA:HA	1.51	0.92
3:D:1095:THR:O	3:D:1099:VAL:HG23	1.69	0.92
3:I:1206:GLY:O	3:I:1215:VAL:HG23	1.69	0.92
2:C:358:ARG:HH22	2:C:374:ASN:HB3	1.33	0.92
4:E:19:LEU:O	4:E:23:VAL:HG23	1.67	0.92

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1105:LYS:HD2	2:H:1107:ASN:HD22	1.34	0.92
1:L:212:ASN:O	1:L:215:VAL:HG22	1.68	0.92
1:G:59:GLU:HB2	1:G:137:ARG:HH12	1.34	0.92
3:D:1123:PHE:CE2	3:D:1184:GLN:HA	2.02	0.92
2:H:165:LEU:HB3	2:H:265:ARG:NH1	1.84	0.92
2:H:218:VAL:HG22	2:H:221:LEU:HD21	1.52	0.92
2:C:137:VAL:O	2:C:391:LEU:HD21	1.70	0.92
3:D:957:PRO:HG2	3:D:1007:VAL:HG22	1.51	0.92
3:I:131:LYS:HE3	3:I:456:MET:SD	2.09	0.92
3:I:996:TRP:CE2	3:I:1056:PRO:HG2	2.05	0.92
3:N:704:ARG:HB2	3:N:736:PHE:HB3	1.49	0.92
3:D:50:PHE:CD2	3:D:522:PRO:HD3	2.04	0.92
3:I:1135:ARG:HD2	3:I:1139:ASP:HB2	1.51	0.92
2:C:689:VAL:HB	2:C:870:ILE:HG12	1.50	0.92
2:H:726:ILE:HD13	2:H:734:LEU:HD21	1.51	0.92
3:N:179:VAL:HG21	3:N:189:GLN:HE22	1.34	0.92
1:B:74:ASP:CB	3:D:872:ARG:HH22	1.82	0.91
2:H:347:GLY:HA3	2:H:378:LEU:HD12	1.52	0.91
2:M:456:ALA:HB3	2:M:459:ALA:HB2	1.52	0.91
3:D:1329:ALA:C	3:D:1330:ILE:HD12	1.95	0.91
2:H:378:LEU:O	2:H:382:ILE:HD13	1.69	0.91
3:D:812:ALA:O	3:D:816:HIS:HB2	1.69	0.91
3:N:1262:LEU:HB3	3:N:1352:ILE:HD11	1.52	0.91
2:M:939:ARG:HA	2:M:939:ARG:HE	1.30	0.91
1:B:206:THR:HG23	1:B:208:LEU:H	1.33	0.91
2:C:165:LEU:HB3	2:C:265:ARG:NH2	1.85	0.91
2:H:676:ILE:CG2	2:H:988:VAL:HG13	1.99	0.91
2:M:1056:LYS:HD3	3:N:623:VAL:HG13	1.51	0.91
3:N:483:HIS:HB2	3:N:484:PRO:HD3	1.53	0.91
1:B:123:MET:C	1:B:125:PRO:HD3	1.94	0.91
2:C:697:ARG:HD2	2:C:699:PHE:CE1	2.06	0.91
3:I:205:TYR:O	3:I:206:ARG:HG2	1.70	0.91
3:I:1465:ASN:HA	3:I:1468:LEU:HD12	1.51	0.91
3:D:55:ASP:HB2	3:D:82:LYS:HD3	1.51	0.91
2:H:16:PRO:O	2:H:18:LEU:HD12	1.71	0.91
2:M:182:VAL:CG1	2:M:193:LEU:HD22	2.01	0.91
1:B:154:GLU:OE2	3:D:840:LYS:HE2	1.70	0.91
1:F:80:LEU:O	1:F:83:LYS:HG2	1.70	0.91
1:L:62:LEU:HD12	1:L:63:HIS:N	1.84	0.91
3:N:162:ARG:HG3	3:N:452:ILE:HD12	1.52	0.91
2:C:431:HIS:H	2:C:434:HIS:CE1	1.88	0.91

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1014:SER:HB3	2:C:1017:THR:O	1.70	0.91
3:D:1112:CYS:SG	3:D:1195:GLN:HG2	2.11	0.91
2:H:1004:LYS:HD2	3:I:744:GLN:HE22	1.34	0.91
4:J:51:LEU:HG	4:J:51:LEU:O	1.70	0.91
2:C:344:PHE:HE2	2:C:378:LEU:HD21	1.35	0.90
2:C:432:ARG:HH22	3:D:1047:LYS:HD3	1.35	0.90
3:D:762:GLN:HE21	4:E:20:THR:HG21	1.36	0.90
3:N:761:ILE:HD12	4:O:20:THR:HG23	1.52	0.90
2:C:110:GLU:HG3	2:C:369:PRO:HB3	1.51	0.90
3:D:1109:GLU:HG2	3:D:1201:CYS:HA	1.53	0.90
4:E:31:LEU:HD12	4:E:32:ARG:N	1.86	0.90
3:I:566:ILE:HD11	2:M:180:GLY:HA2	1.52	0.90
3:I:991:GLN:OE1	7:Y:111:ASN:HA	1.71	0.90
1:K:88:ARG:HH12	1:K:90:LEU:HD11	1.36	0.90
2:M:290:LEU:CB	2:M:302:VAL:HG11	2.02	0.90
3:N:387:LEU:H	3:N:387:LEU:HD12	1.34	0.90
3:D:806:PHE:CE1	3:D:813:LEU:HB3	2.06	0.90
2:M:281:LEU:HG	2:M:282:GLY:N	1.83	0.90
2:C:666:LEU:HG	2:C:668:LEU:HD11	1.54	0.90
3:D:780:LYS:NZ	7:X:38:GLU:OE1	2.05	0.90
3:I:153:LEU:HD13	3:I:158:TYR:HB2	1.51	0.90
3:I:643:GLY:HA3	3:I:727:GLN:HB2	1.53	0.90
2:M:1065:ALA:HB1	2:M:1077:PRO:HG2	1.53	0.90
3:D:705:ALA:HB3	3:D:706:PRO:HD3	1.52	0.90
3:I:737:ASN:ND2	7:Y:40:SER:HB3	1.86	0.90
2:M:1046:ALA:HA	3:N:1472:ILE:HD11	1.54	0.90
2:C:1037:VAL:HG13	2:C:1049:LEU:HD11	1.54	0.90
4:E:59:ASN:OD1	4:E:61:VAL:HG22	1.70	0.90
3:N:970:LYS:HA	3:N:973:GLN:HE21	1.34	0.90
3:D:608:SER:HB3	3:D:1443:THR:OG1	1.72	0.90
1:F:206:THR:HG22	1:F:209:GLU:HG3	1.53	0.90
2:H:98:LEU:HD12	2:H:98:LEU:N	1.85	0.90
2:M:98:LEU:HD21	2:M:113:VAL:HG21	1.52	0.90
2:C:272:ALA:HA	2:C:464:LEU:CD2	2.01	0.90
3:I:122:GLU:O	3:I:126:VAL:HG23	1.72	0.90
2:M:239:PHE:CZ	2:M:252:LYS:HA	2.07	0.90
3:N:1093:TYR:O	3:N:1096:ARG:HB3	1.70	0.90
7:X:99:ARG:HH11	7:X:99:ARG:HG3	1.36	0.90
1:A:158:ILE:H	1:A:158:ILE:HD12	1.34	0.90
2:C:1084:SER:HB3	3:D:617:ASN:HD21	1.37	0.90
3:D:639:LEU:HD13	3:D:766:ALA:HB2	1.52	0.90

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:643:GLY:O	3:D:726:ILE:HG23	1.72	0.90
2:H:724:ARG:HG3	2:H:740:GLU:HA	1.53	0.90
1:L:41:ARG:HG3	1:L:177:VAL:HG21	1.53	0.90
2:M:862:PRO:HB3	2:M:929:ARG:HH22	1.37	0.90
1:B:20:TYR:HD2	1:B:21:GLY:H	1.18	0.89
3:N:179:VAL:HG13	3:N:183:GLU:HB3	1.53	0.89
3:N:1344:VAL:O	3:N:1348:LEU:HD13	1.72	0.89
3:D:1128:VAL:O	3:D:1129:THR:HG22	1.70	0.89
3:N:906:GLN:HB3	3:N:911:LEU:HD11	1.51	0.89
3:N:1275:SER:HA	3:N:1303:TYR:OH	1.70	0.89
3:D:134:VAL:HG21	3:D:460:ALA:HB1	1.54	0.89
2:H:146:VAL:HG22	2:H:162:ILE:HG12	1.53	0.89
2:H:267:TYR:HB2	2:H:272:ALA:CB	2.02	0.89
3:N:119:SER:HB2	3:N:123:LEU:H	1.35	0.89
1:A:220:GLU:O	1:A:223:THR:HG22	1.73	0.89
3:D:800:LYS:HB2	3:D:829:VAL:HG13	1.52	0.89
3:I:1031:ASN:HB3	3:I:1034:GLN:OE1	1.71	0.89
2:M:429:ASP:OD1	3:N:1079:LYS:HE2	1.73	0.89
3:I:566:ILE:HD12	3:I:566:ILE:N	1.87	0.89
3:N:109:PRO:HB3	3:N:494:LYS:HZ3	1.31	0.89
2:H:191:PHE:CZ	2:H:196:LEU:HB2	2.07	0.89
2:C:182:VAL:HG12	2:C:193:LEU:HD22	1.54	0.89
3:D:860:LEU:HD22	3:D:878:GLY:HA2	1.54	0.89
3:D:1412:LYS:O	3:D:1414:PRO:HD3	1.71	0.89
4:E:70:THR:HB	4:E:72:ARG:HD3	1.53	0.89
2:H:328:LEU:HD13	2:H:433:THR:HB	1.54	0.89
3:I:456:MET:HE3	3:I:568:ARG:HD3	1.54	0.89
3:I:800:LYS:CD	3:I:801:GLY:H	1.85	0.89
3:N:143:ASN:HA	3:N:161:LEU:CD2	2.02	0.89
2:C:697:ARG:HD2	2:C:699:PHE:CD1	2.08	0.89
3:D:153:LEU:HD13	3:D:158:TYR:HB2	1.54	0.89
3:N:877:PRO:O	3:N:880:ILE:HG22	1.72	0.89
3:D:28:LYS:HD2	3:D:29:PRO:HD2	1.55	0.89
3:D:737:ASN:OD1	7:X:40:SER:HB3	1.73	0.89
3:I:850:LEU:H	3:I:850:LEU:HD12	1.38	0.89
3:I:1071:PHE:O	3:I:1074:SER:HB3	1.73	0.89
3:I:1197:ARG:HB3	3:I:1396:GLU:CD	1.98	0.89
3:N:1102:THR:HA	3:N:1105:ILE:HD13	1.53	0.89
1:A:156:HIS:CD2	1:A:157:GLY:H	1.91	0.88
2:C:958:THR:HG23	2:C:961:GLU:CG	2.02	0.88
2:H:1030:GLN:NE2	3:I:628:ARG:HD3	1.87	0.88

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1046:ALA:HB1	3:N:1471:LEU:CD1	2.00	0.88
3:N:168:THR:O	3:N:170:PRO:HD3	1.73	0.88
2:H:290:LEU:CB	2:H:302:VAL:HG11	2.03	0.88
2:H:442:GLU:HG2	2:H:454:SER:HB2	1.54	0.88
2:H:950:LEU:HB3	2:H:952:LEU:HD23	1.55	0.88
2:C:943:VAL:HG23	2:C:985:GLY:H	1.38	0.88
3:I:501:ALA:CB	3:I:1452:ILE:HG22	2.04	0.88
3:I:1211:MET:HG2	3:I:1212:ALA:N	1.84	0.88
2:H:184:MET:HB2	2:H:193:LEU:HG	1.53	0.88
3:I:119:SER:CB	3:I:123:LEU:HB2	2.04	0.88
3:I:131:LYS:HD2	3:I:568:ARG:HG2	1.56	0.88
3:I:704:ARG:HB2	3:I:736:PHE:HB3	1.53	0.88
3:I:813:LEU:O	3:I:817:GLU:HB2	1.73	0.88
2:M:516:ARG:CZ	3:N:1068:LEU:HD22	2.03	0.88
3:N:795:VAL:CG2	3:N:879:ARG:HH12	1.86	0.88
2:H:418:LEU:H	2:H:418:LEU:HD12	1.37	0.88
4:J:32:ARG:NH1	4:J:32:ARG:HB2	1.87	0.88
3:D:128:TYR:HE2	3:D:458:ALA:HA	1.37	0.88
3:D:908:LYS:HB2	3:D:1027:GLY:HA3	1.54	0.88
3:D:1493:LYS:O	3:D:1497:GLU:HG2	1.72	0.88
2:M:165:LEU:HB3	2:M:265:ARG:NH1	1.88	0.88
2:M:1004:LYS:HD2	3:N:744:GLN:HE21	1.35	0.88
3:D:392:SER:C	3:D:393:ILE:HD12	1.98	0.88
3:D:902:LEU:HD23	3:D:902:LEU:H	1.37	0.88
3:I:137:PRO:CD	3:I:453:ASP:O	2.21	0.88
1:L:59:GLU:HB2	1:L:137:ARG:HH12	1.35	0.88
3:N:843:PHE:CE1	3:N:864:VAL:HG11	2.08	0.88
3:N:984:THR:HG23	3:N:987:GLU:H	1.39	0.88
3:D:603:LEU:O	3:D:606:ILE:HG22	1.73	0.88
3:N:96:ALA:HB3	3:N:554:LEU:HD23	1.54	0.88
3:D:141:ILE:HG13	3:D:448:GLU:CD	1.98	0.88
2:H:1074:GLU:HG2	2:H:1075:ASP:H	1.38	0.88
3:I:507:ASN:HD22	3:I:507:ASN:N	1.72	0.88
3:I:1459:LEU:HD22	3:I:1470:ARG:HH21	1.39	0.88
1:A:86:VAL:HG12	1:A:124:ASN:HB2	1.56	0.88
2:C:798:GLY:C	2:C:799:ILE:HD13	1.97	0.88
2:H:1003:ASP:OD2	2:H:1004:LYS:HE2	1.73	0.88
2:M:767:PRO:HB3	2:M:772:ARG:NH2	1.87	0.88
3:N:864:VAL:HG12	3:N:865:THR:N	1.88	0.88
3:D:1263:PHE:HE2	3:D:1371:VAL:HG11	1.34	0.87
3:I:119:SER:HB2	3:I:123:LEU:H	1.38	0.87

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:1425:THR:O	3:I:1429:LEU:HD13	1.74	0.87
2:M:39:ARG:H	2:M:39:ARG:HD2	1.37	0.87
2:M:958:THR:HG23	2:M:961:GLU:HG3	1.54	0.87
2:H:200:LEU:HD23	2:H:298:PHE:HB2	1.53	0.87
3:I:644:LEU:HD12	3:I:645:PRO:HD3	1.55	0.87
2:M:136:ILE:HG21	2:M:336:VAL:HG13	1.53	0.87
2:M:676:ILE:HG22	2:M:988:VAL:O	1.74	0.87
1:F:42:ARG:HD3	1:G:35:THR:HG23	1.56	0.87
2:H:224:GLU:OE1	2:H:227:PHE:HD1	1.56	0.87
3:N:982:PHE:C	3:N:982:PHE:CD2	2.52	0.87
2:H:300:ASP:OD2	2:H:303:PHE:HB2	1.74	0.87
3:I:1364:HIS:CE1	3:I:1366:LYS:HG3	2.09	0.87
2:M:224:GLU:O	2:M:228:ALA:HB3	1.73	0.87
3:N:181:ASP:HB3	3:N:441:ARG:HD3	1.57	0.87
2:C:148:PHE:CE1	2:C:309:TYR:HD2	1.93	0.87
3:D:411:THR:HG23	3:D:436:GLU:HA	1.56	0.87
4:E:36:LYS:HA	4:E:36:LYS:NZ	1.89	0.87
2:H:12:VAL:HG22	2:H:13:ILE:CG2	2.05	0.87
2:H:101:ILE:HG23	2:H:107:LEU:CD2	2.04	0.87
1:L:86:VAL:HG12	1:L:124:ASN:HB2	1.56	0.87
2:M:1012:PRO:HD3	2:M:1026:GLN:CD	1.98	0.87
2:C:1004:LYS:O	3:D:629:SER:HA	1.74	0.87
3:D:179:VAL:HG21	3:D:189:GLN:HE22	1.39	0.87
3:D:584:ASN:ND2	3:D:590:PRO:HD2	1.90	0.87
2:H:98:LEU:HD12	2:H:98:LEU:H	1.40	0.87
3:I:715:ALA:O	3:I:764:LEU:HD12	1.74	0.87
3:I:1109:GLU:HG2	3:I:1201:CYS:HA	1.57	0.87
3:D:18:ILE:HG23	3:D:518:PRO:HG3	1.56	0.87
3:I:650:LEU:HD13	3:I:688:TRP:HZ3	1.40	0.87
2:M:572:ILE:HD11	2:M:701:THR:OG1	1.75	0.87
3:N:356:PRO:HB3	3:N:441:ARG:HA	1.54	0.87
3:N:972:LEU:HG	3:N:976:GLN:HE21	1.38	0.87
2:C:290:LEU:CB	2:C:302:VAL:HG11	2.02	0.87
3:D:571:LYS:O	3:D:574:LEU:HB3	1.74	0.87
2:H:157:ARG:HD3	2:H:314:THR:CG2	2.05	0.87
3:I:1140:ILE:HG21	3:I:1175:ILE:HD11	1.56	0.87
2:M:675:ALA:HA	2:M:989:VAL:HG12	1.57	0.87
3:N:116:LEU:HD22	3:N:118:LEU:HG	1.57	0.87
3:N:860:LEU:O	3:N:877:PRO:HD2	1.73	0.87
2:M:1041:GLU:OE1	3:N:1462:LEU:HD12	1.74	0.86
3:D:141:ILE:HG22	3:D:162:ARG:NH1	1.89	0.86

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:41:ASN:O	2:H:46:ALA:HB2	1.75	0.86
3:I:101:HIS:ND1	3:I:103:TRP:HB2	1.90	0.86
2:M:260:LEU:HB2	2:M:291:ALA:HB1	1.55	0.86
3:N:204:LEU:O	3:N:393:ILE:HG23	1.75	0.86
3:N:456:MET:HE3	3:N:568:ARG:HD3	1.57	0.86
7:X:120:SER:HB2	7:X:123:SER:HB2	1.57	0.86
1:B:124:ASN:OD1	1:B:127:LEU:HB2	1.75	0.86
3:D:160:GLU:OE1	3:D:161:LEU:HD12	1.76	0.86
2:H:251:ASP:CG	2:H:251:ASP:O	2.17	0.86
3:I:1047:LYS:HB3	3:I:1048:PRO:CD	2.05	0.86
3:I:1098:LEU:HD21	3:I:1229:ILE:HB	1.57	0.86
3:N:141:ILE:HG22	3:N:162:ARG:NH1	1.90	0.86
3:N:1205:TYR:CD2	3:N:1215:VAL:HG21	2.09	0.86
3:D:127:LEU:HD12	3:D:128:TYR:N	1.91	0.86
1:K:88:ARG:NH1	1:K:90:LEU:HD11	1.90	0.86
2:M:41:ASN:O	2:M:46:ALA:HB2	1.75	0.86
3:D:520:LEU:HD23	3:D:525:ARG:HD2	1.57	0.86
3:D:554:LEU:O	3:D:558:LEU:HG	1.75	0.86
3:I:800:LYS:HD2	3:I:801:GLY:N	1.91	0.86
3:N:1066:THR:HG22	3:N:1069:GLU:HB2	1.57	0.86
3:N:1205:TYR:HD2	3:N:1215:VAL:HG21	1.38	0.86
3:N:1286:THR:HG23	3:N:1286:THR:O	1.76	0.86
2:H:361:MET:HE1	3:N:1314:LYS:NZ	1.91	0.86
3:I:1305:LEU:HD12	3:I:1311:LEU:HD22	1.55	0.86
3:I:563:PRO:HA	2:M:223:ASP:HB2	1.55	0.86
3:N:1310:ARG:HB2	3:N:1327:ARG:HD3	1.55	0.86
1:A:91:ASN:OD1	1:A:92:PRO:HD2	1.74	0.86
3:D:166:GLN:HE22	3:D:394:LEU:HB2	1.39	0.86
3:D:397:LYS:HG2	3:D:448:GLU:HB2	1.55	0.86
2:H:1082:PRO:HG2	3:I:1469:GLY:HA3	1.55	0.86
1:L:185:ARG:NH1	3:N:689:ASP:HA	1.91	0.86
2:M:110:GLU:HG3	2:M:369:PRO:CB	2.05	0.86
7:Y:102:VAL:HG11	7:Y:119:ILE:HD11	1.55	0.86
3:D:1388:ARG:O	3:D:1391:GLU:HG3	1.76	0.86
3:D:25:GLU:HG3	3:D:92:HIS:O	1.75	0.85
3:I:654:LYS:HB3	3:I:655:PRO:HD3	1.56	0.85
3:I:656:PHE:HB3	3:I:694:VAL:HG11	1.57	0.85
4:E:37:ASN:HD22	4:E:37:ASN:N	1.72	0.85
3:I:1251:ASP:N	3:I:1269:LYS:HZ3	1.74	0.85
2:C:89:THR:HA	2:C:129:ILE:O	1.76	0.85
2:H:1088:LEU:HD23	2:H:1092:LEU:HD12	1.55	0.85

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:151:ASP:HB2	2:M:157:ARG:O	1.76	0.85
3:N:128:TYR:CE2	3:N:458:ALA:HA	2.10	0.85
3:N:1310:ARG:HB2	3:N:1327:ARG:CD	2.06	0.85
2:C:1046:ALA:HA	3:D:1472:ILE:HD11	1.58	0.85
2:H:516:ARG:NE	3:I:1068:LEU:HD22	1.91	0.85
3:I:1266:ARG:O	3:I:1268:PRO:HD3	1.74	0.85
2:M:857:ASP:HB2	2:M:978:ARG:HG2	1.57	0.85
2:C:194:VAL:HA	2:C:197:LEU:HD12	1.57	0.85
2:M:762:LYS:HD2	2:M:786:LYS:HB2	1.59	0.85
2:M:886:LEU:CD1	3:N:951:ILE:HD12	2.06	0.85
3:N:52:PRO:HG2	3:N:80:VAL:HG22	1.58	0.85
1:A:211:LEU:O	1:A:215:VAL:HG23	1.76	0.85
1:B:41:ARG:HG3	1:B:177:VAL:HG21	1.56	0.85
2:H:199:VAL:HG22	2:H:235:LEU:HD23	1.58	0.85
2:H:524:VAL:HG13	2:H:528:GLU:OE1	1.77	0.85
3:I:1106:VAL:HG12	3:I:1107:VAL:N	1.91	0.85
3:N:207:PHE:O	3:N:390:PRO:HA	1.75	0.85
3:D:109:PRO:HB3	3:D:494:LYS:HZ2	1.42	0.85
3:D:358:GLY:HA2	3:D:385:VAL:O	1.77	0.85
3:D:704:ARG:HB2	3:D:736:PHE:HB3	1.59	0.85
2:M:165:LEU:HG	2:M:166:PRO:HA	1.58	0.85
2:M:689:VAL:HB	2:M:870:ILE:CG1	2.06	0.85
3:N:18:ILE:HG23	3:N:518:PRO:HG3	1.58	0.85
3:N:206:ARG:HA	3:N:206:ARG:NE	1.88	0.85
2:C:265:ARG:HB3	2:C:267:TYR:CZ	2.12	0.85
2:C:579:VAL:HG11	2:C:887:GLU:HG3	1.59	0.85
3:D:481:MET:CE	3:D:493:ARG:HA	2.07	0.85
3:D:826:PRO:O	3:D:829:VAL:HG23	1.77	0.85
2:H:502:PRO:HB2	2:H:509:ALA:HB3	1.58	0.85
2:H:1097:LEU:HG	3:I:10:ILE:HG23	1.57	0.85
3:N:29:PRO:HG3	3:N:549:ASN:ND2	1.92	0.85
3:N:890:VAL:HG11	3:N:922:LEU:CD1	2.06	0.85
7:Z:13:GLU:HG2	7:Z:17:GLN:HE21	1.41	0.85
2:C:260:LEU:HB2	2:C:291:ALA:HB1	1.57	0.85
2:H:185:LYS:HD2	2:H:190:LYS:HE2	1.58	0.85
2:M:597:ALA:HB2	2:M:655:LEU:HD21	1.57	0.85
2:H:89:THR:HA	2:H:129:ILE:O	1.77	0.85
2:H:250:ARG:NH1	2:H:250:ARG:HB3	1.91	0.85
4:O:54:LEU:O	4:O:54:LEU:HD23	1.77	0.85
2:C:101:ILE:HG23	2:C:107:LEU:HD22	1.57	0.84
2:C:722:ILE:O	2:C:722:ILE:HD13	1.77	0.84

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:133:ILE:O	3:I:152:LEU:HB2	1.76	0.84
2:M:627:ARG:O	2:M:638:ASP:HB3	1.76	0.84
3:D:89:ARG:O	3:D:521:PRO:HG3	1.77	0.84
2:H:858:MET:HG3	2:H:859:PRO:HD2	1.59	0.84
3:I:1062:ARG:HH11	3:I:1062:ARG:HG3	1.42	0.84
2:M:52:PHE:CD2	2:M:68:PHE:HB2	2.11	0.84
2:M:73:LEU:CD2	2:M:94:LEU:HB2	2.07	0.84
3:N:1122:LEU:HD11	3:N:1186:VAL:HG23	1.58	0.84
2:C:758:ARG:HB3	2:C:788:THR:O	1.77	0.84
2:H:274:ARG:HG3	2:H:285:LEU:HB3	1.59	0.84
2:H:979:THR:HG23	2:H:981:GLU:H	1.42	0.84
3:I:108:VAL:HB	3:I:109:PRO:CD	2.07	0.84
3:I:199:LEU:HD23	3:I:200:ASP:O	1.77	0.84
3:I:452:ILE:O	3:I:452:ILE:HD13	1.77	0.84
2:M:1104:GLU:HG3	3:N:3:LYS:HD3	1.59	0.84
3:N:481:MET:HE2	3:N:493:ARG:HA	1.58	0.84
3:N:550:ARG:NE	3:N:573:MET:HE2	1.91	0.84
1:F:79:ILE:HD12	1:F:80:LEU:N	1.91	0.84
2:H:1065:ALA:HB1	2:H:1077:PRO:HG2	1.58	0.84
1:L:34:VAL:HG22	1:L:181:VAL:HG21	1.58	0.84
2:M:965:GLU:HA	2:M:968:LEU:HD12	1.59	0.84
3:D:139:GLY:O	3:D:147:VAL:HB	1.77	0.84
3:D:1093:TYR:CZ	3:D:1097:LYS:HE2	2.12	0.84
2:H:260:LEU:CB	2:H:291:ALA:HB1	2.08	0.84
3:I:705:ALA:HB3	3:I:706:PRO:HD3	1.59	0.84
2:C:250:ARG:O	2:C:252:LYS:N	2.10	0.84
3:D:29:PRO:HG3	3:D:549:ASN:ND2	1.92	0.84
3:D:87:ARG:HB2	3:D:524:LEU:HD12	1.57	0.84
3:D:970:LYS:HZ3	7:X:113:LEU:HD23	1.43	0.84
2:H:199:VAL:HG21	2:H:238:LEU:HD12	1.59	0.84
1:L:117:VAL:HB	1:L:120:VAL:HB	1.58	0.84
2:M:736:ASP:O	2:M:744:ARG:HG2	1.78	0.84
3:D:1352:ILE:HG21	3:D:1368:ILE:HD12	1.60	0.84
1:G:182:GLU:OE2	1:G:194:LYS:HE3	1.76	0.84
2:H:157:ARG:CZ	2:H:314:THR:HB	2.08	0.84
2:H:839:LEU:N	2:H:839:LEU:HD23	1.92	0.84
2:M:1027:PHE:H	2:M:1027:PHE:HD2	1.23	0.84
3:N:29:PRO:HG3	3:N:549:ASN:HD21	1.43	0.84
3:N:650:LEU:HD13	3:N:688:TRP:HZ3	1.41	0.84
3:D:115:LEU:HD23	3:D:115:LEU:C	2.02	0.84
3:D:119:SER:HB2	3:D:123:LEU:CB	2.07	0.84

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1166:LEU:HD23	3:D:1166:LEU:N	1.92	0.84
3:D:1314:LYS:HD3	3:D:1314:LYS:N	1.92	0.84
2:H:288:ARG:NH1	2:H:288:ARG:HB2	1.92	0.84
3:I:908:LYS:NZ	7:Y:35:GLU:OE2	2.09	0.84
2:M:101:ILE:HG23	2:M:107:LEU:HD22	1.59	0.84
2:M:302:VAL:O	2:M:305:PRO:HD2	1.77	0.84
7:Y:14:ARG:HB3	7:Y:14:ARG:HH11	1.41	0.84
2:C:1032:PHE:O	2:C:1036:GLU:HB2	1.78	0.84
3:D:204:LEU:HD23	3:D:394:LEU:HD11	1.59	0.84
2:H:100:LEU:HD22	2:H:372:LEU:HD22	1.57	0.84
3:I:135:LEU:HD23	3:I:136:ASP:N	1.92	0.84
2:C:325:ILE:H	2:C:325:ILE:CD1	1.87	0.84
2:H:259:GLY:O	2:H:291:ALA:HA	1.78	0.84
3:I:826:PRO:O	3:I:829:VAL:HG23	1.78	0.84
2:M:265:ARG:HB3	2:M:267:TYR:CE2	2.12	0.84
2:M:474:VAL:HG23	2:M:478:VAL:O	1.78	0.84
3:N:618:LEU:HD11	3:N:1463:LYS:HE2	1.59	0.84
3:D:804:LEU:H	3:D:804:LEU:CD2	1.67	0.83
1:F:42:ARG:HH12	2:H:857:ASP:CB	1.88	0.83
2:H:585:GLU:O	2:H:588:VAL:HG22	1.77	0.83
1:K:156:HIS:HD2	1:K:158:ILE:HG12	1.41	0.83
3:N:1425:THR:O	3:N:1429:LEU:HD13	1.78	0.83
2:C:979:THR:HG23	2:C:981:GLU:H	1.42	0.83
3:D:176:ASP:CB	3:D:389:GLU:HG2	2.02	0.83
3:D:210:ARG:HG3	3:D:346:ARG:HG2	1.60	0.83
3:D:483:HIS:HB2	3:D:484:PRO:HD3	1.59	0.83
3:D:1144:LEU:HD11	3:D:1186:VAL:HG21	1.58	0.83
3:N:1235:GLN:CB	7:Z:37:MET:HE3	2.03	0.83
4:O:47:LYS:HA	4:O:54:LEU:HB3	1.58	0.83
2:C:598:GLU:HB2	2:C:615:TYR:OH	1.76	0.83
3:D:1379:VAL:HG12	3:D:1419:PRO:HA	1.60	0.83
4:E:47:LYS:HA	4:E:54:LEU:HB3	1.57	0.83
3:D:1144:LEU:HD21	3:D:1186:VAL:HG11	1.59	0.83
3:D:1441:GLN:CD	3:D:1442:ASN:H	1.85	0.83
3:I:1209:LEU:HD21	4:J:16:LYS:NZ	1.92	0.83
2:M:30:LEU:O	2:M:30:LEU:HD12	1.78	0.83
3:D:774:SER:HB3	3:D:1362:LYS:O	1.78	0.83
3:I:982:PHE:C	3:I:982:PHE:CD2	2.57	0.83
3:N:87:ARG:CB	3:N:523:ASP:HB2	2.08	0.83
3:N:358:GLY:HA2	3:N:385:VAL:O	1.79	0.83
1:B:41:ARG:HG3	1:B:177:VAL:CG2	2.09	0.83

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:565:GLN:NE2	2:C:842:ARG:HG2	1.93	0.83
2:C:854:PRO:HB2	2:C:856:GLU:HG3	1.61	0.83
2:C:1019:GLN:OE1	3:D:621:LYS:HB3	1.78	0.83
3:D:387:LEU:H	3:D:387:LEU:HD12	1.44	0.83
1:F:74:ASP:O	1:F:78:ILE:HG12	1.79	0.83
2:M:872:ASN:HD21	2:M:874:LEU:HB2	1.40	0.83
3:N:400:VAL:HG22	3:N:443:VAL:HG21	1.60	0.83
3:N:1109:GLU:HG2	3:N:1201:CYS:HA	1.59	0.83
2:C:675:ALA:CA	2:C:989:VAL:HG12	2.07	0.83
2:C:679:PHE:HB2	2:C:683:ASN:HD21	1.44	0.83
3:D:160:GLU:HA	3:D:165:LYS:HB2	1.61	0.83
3:D:683:ILE:HG21	3:D:688:TRP:CZ2	2.13	0.83
3:D:795:VAL:HG23	3:D:879:ARG:HH12	1.44	0.83
2:H:106:GLY:O	2:H:107:LEU:HD23	1.77	0.83
2:H:199:VAL:HG12	2:H:200:LEU:HG	1.59	0.83
2:H:1024:LYS:CG	2:H:1025:ALA:H	1.90	0.83
3:I:87:ARG:HB2	3:I:524:LEU:HD12	1.58	0.83
3:I:483:HIS:HB2	3:I:484:PRO:HD3	1.61	0.83
2:M:710:ILE:HD11	2:M:758:ARG:HE	1.43	0.83
7:Y:84:GLY:HA2	7:Y:130:LEU:HD11	1.59	0.83
2:C:442:GLU:HG2	2:C:454:SER:CB	2.09	0.83
3:D:166:GLN:HG2	3:D:396:VAL:HG12	1.61	0.83
3:D:1091:SER:HB3	5:P:19:DC:H5'	1.60	0.83
3:I:1205:TYR:HD2	3:I:1215:VAL:HG21	1.41	0.83
2:M:73:LEU:HB2	2:M:93:PRO:O	1.79	0.83
2:M:95:TYR:N	2:M:95:TYR:CD1	2.46	0.83
3:N:192:ALA:HB1	3:N:193:PRO:HD2	1.61	0.83
4:E:51:LEU:O	4:E:53:GLY:N	2.12	0.83
3:I:50:PHE:CD2	3:I:522:PRO:HD3	2.14	0.83
2:M:197:LEU:O	2:M:200:LEU:HG	1.79	0.83
3:N:1042:ARG:O	3:N:1057:VAL:HB	1.79	0.83
1:B:165:ILE:HD13	1:B:165:ILE:H	1.44	0.83
3:I:111:LYS:HE3	3:I:1448:THR:HG22	1.61	0.83
3:I:566:ILE:CG1	2:M:180:GLY:HA2	2.09	0.83
3:N:98:PRO:HG2	3:N:462:GLN:NE2	1.93	0.83
3:N:160:GLU:HA	3:N:165:LYS:HB2	1.60	0.83
7:Z:29:ALA:HA	7:Z:32:ILE:HD12	1.59	0.83
2:C:41:ASN:O	2:C:46:ALA:HB2	1.79	0.82
2:C:110:GLU:CG	2:C:369:PRO:HB3	2.09	0.82
2:C:723:THR:HG23	2:C:725:ASP:H	1.44	0.82
2:C:1056:LYS:HD3	3:D:623:VAL:HG13	1.61	0.82

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1114:THR:CG2	3:D:1195:GLN:HB3	2.09	0.82
1:F:87:VAL:HG21	1:F:144:VAL:HG11	1.60	0.82
2:H:289:THR:O	2:H:291:ALA:N	2.12	0.82
1:G:30:ARG:NH2	2:H:854:PRO:HG3	1.94	0.82
3:I:1457:ASP:O	3:I:1459:LEU:HD12	1.78	0.82
2:M:285:LEU:HD23	2:M:285:LEU:O	1.79	0.82
3:D:52:PRO:HG3	3:D:78:VAL:HG13	1.61	0.82
3:D:1314:LYS:HD3	3:D:1314:LYS:H	1.45	0.82
1:G:123:MET:C	1:G:125:PRO:HD3	2.03	0.82
2:H:853:LEU:HB2	2:H:858:MET:CE	2.09	0.82
2:M:65:VAL:HB	2:M:101:ILE:HB	1.60	0.82
2:M:191:PHE:HZ	2:M:196:LEU:HB2	1.44	0.82
2:M:1032:PHE:O	2:M:1036:GLU:HB2	1.79	0.82
2:C:98:LEU:HD12	2:C:98:LEU:N	1.94	0.82
2:C:129:ILE:HG22	2:C:130:ASN:N	1.94	0.82
2:C:383:ARG:HB2	2:C:383:ARG:HH11	1.42	0.82
2:H:250:ARG:HB3	2:H:250:ARG:HH11	1.44	0.82
1:K:54:THR:HG22	1:K:158:ILE:HG13	1.59	0.82
2:M:264:PRO:HB3	2:M:289:THR:HG21	1.61	0.82
3:N:729:HIS:CD2	3:N:731:LEU:H	1.96	0.82
3:N:1197:ARG:HB3	3:N:1396:GLU:CD	2.04	0.82
3:D:868:TYR:CD1	3:D:869:MET:HG3	2.14	0.82
3:D:1106:VAL:HG12	3:D:1107:VAL:N	1.93	0.82
2:H:144:PRO:HG2	2:H:265:ARG:NH1	1.95	0.82
3:I:101:HIS:O	3:I:105:VAL:HG23	1.79	0.82
3:I:701:LEU:O	3:I:702:LEU:HD12	1.78	0.82
3:N:190:GLU:HG2	3:N:196:VAL:HG22	1.61	0.82
2:C:597:ALA:HB2	2:C:655:LEU:HD21	1.61	0.82
3:D:158:TYR:HE1	3:D:452:ILE:HD11	1.44	0.82
3:D:1105:ILE:N	3:D:1105:ILE:HD12	1.94	0.82
3:I:1465:ASN:HD21	3:I:1470:ARG:HB3	1.44	0.82
3:N:705:ALA:CB	3:N:706:PRO:HD3	2.09	0.82
7:X:102:VAL:HG21	7:X:125:MET:CE	2.09	0.82
2:C:148:PHE:HE1	2:C:309:TYR:CD2	1.98	0.82
2:H:134:ARG:NH2	2:H:393:GLN:HA	1.94	0.82
3:I:179:VAL:HG13	3:I:183:GLU:HB3	1.62	0.82
3:I:806:PHE:CE1	3:I:813:LEU:HB3	2.15	0.82
1:K:206:THR:CG2	1:K:209:GLU:HG3	2.08	0.82
2:M:455:LEU:HD12	2:M:456:ALA:O	1.78	0.82
4:O:51:LEU:C	4:O:53:GLY:H	1.87	0.82
2:C:897:LEU:HB3	2:C:899:GLN:HE21	1.45	0.82

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:209:ARG:HB2	3:D:389:GLU:CB	2.10	0.82
2:H:140:ILE:HG22	2:H:333:ILE:CD1	2.10	0.82
2:H:185:LYS:HG2	2:H:190:LYS:HG2	1.59	0.82
3:N:367:ILE:HB	3:N:377:VAL:HG12	1.60	0.82
3:N:684:LYS:HB2	3:N:687:VAL:HG23	1.59	0.82
2:H:456:ALA:HB3	2:H:459:ALA:HB2	1.61	0.82
2:H:1024:LYS:HG3	2:H:1025:ALA:N	1.95	0.82
3:I:566:ILE:HD12	3:I:566:ILE:H	1.44	0.82
3:I:1459:LEU:HD23	3:I:1468:LEU:HD13	1.61	0.82
1:K:86:VAL:CG1	1:K:124:ASN:HB2	2.10	0.82
3:N:704:ARG:HH12	3:N:743:ASP:HB3	1.44	0.82
3:N:897:TRP:HA	3:N:900:ILE:HD12	1.62	0.82
3:N:1372:VAL:HA	3:N:1375:MET:CE	2.10	0.82
3:N:1377:LYS:HE2	3:N:1378:TYR:CZ	2.15	0.82
2:C:274:ARG:CD	2:C:285:LEU:HD22	2.10	0.82
2:C:834:GLN:HE22	3:D:724:GLN:CG	1.91	0.81
1:G:128:HIS:HE2	1:G:131:THR:HG23	1.46	0.81
2:H:207:LEU:HD23	2:H:211:LEU:HD23	1.62	0.81
3:I:566:ILE:CD1	2:M:180:GLY:HA2	2.10	0.81
2:M:195:LEU:HG	2:M:238:LEU:HG	1.61	0.81
2:M:1074:GLU:HG2	2:M:1075:ASP:H	1.45	0.81
1:A:153:ALA:HA	1:A:156:HIS:NE2	1.95	0.81
3:D:827:ILE:H	3:D:827:ILE:HD12	1.45	0.81
1:F:54:THR:HG22	1:F:158:ILE:HG13	1.62	0.81
3:I:1462:LEU:HD22	3:I:1472:ILE:HG22	1.62	0.81
1:B:44:LEU:HA	1:B:48:ILE:CD1	2.10	0.81
2:C:265:ARG:HD3	2:C:267:TYR:CD1	2.15	0.81
3:D:409:VAL:HG12	3:D:410:SER:N	1.95	0.81
3:D:501:ALA:HB1	3:D:1453:ALA:HB2	1.61	0.81
3:D:1093:TYR:CE1	3:D:1097:LYS:HE2	2.14	0.81
3:D:1482:ARG:HH21	3:D:1483:PHE:HZ	1.27	0.81
2:H:106:GLY:C	2:H:107:LEU:HD23	2.05	0.81
2:H:140:ILE:HG22	2:H:333:ILE:HD13	1.62	0.81
2:H:191:PHE:HB2	2:H:241:LEU:HD11	1.61	0.81
2:H:442:GLU:HG2	2:H:454:SER:CB	2.10	0.81
2:H:939:ARG:HA	2:H:939:ARG:HE	1.45	0.81
2:M:904:PRO:HD2	2:M:908:GLY:HA2	1.60	0.81
2:M:1027:PHE:N	2:M:1027:PHE:CD2	2.45	0.81
3:N:675:ARG:O	3:N:678:GLU:HG2	1.79	0.81
3:N:982:PHE:C	3:N:982:PHE:HD2	1.87	0.81
4:O:70:THR:HB	4:O:72:ARG:HG2	1.62	0.81

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:165:ILE:HD13	1:B:165:ILE:N	1.96	0.81
2:C:270:GLY:O	2:C:274:ARG:HD3	1.81	0.81
2:C:676:ILE:HD12	2:C:871:LEU:O	1.79	0.81
2:C:1004:LYS:HG2	3:D:630:VAL:HG22	1.60	0.81
3:D:991:GLN:OE1	7:X:111:ASN:HA	1.81	0.81
2:H:1036:GLU:N	2:H:1036:GLU:OE1	2.12	0.81
3:I:15:PRO:HA	3:I:18:ILE:HD12	1.63	0.81
1:L:20:TYR:HD2	1:L:21:GLY:H	1.26	0.81
2:M:397:GLU:HG2	2:M:403:SER:HB3	1.61	0.81
1:F:26:GLU:HG3	1:F:194:LYS:HD2	1.62	0.81
2:H:606:VAL:CG2	2:H:645:VAL:HG13	2.09	0.81
2:H:946:ARG:CD	2:H:984:GLU:HB2	2.11	0.81
1:K:68:ILE:H	1:K:68:ILE:HD12	1.46	0.81
2:M:502:PRO:HB2	2:M:509:ALA:HB3	1.60	0.81
3:N:165:LYS:HZ1	3:N:199:LEU:HD22	1.43	0.81
3:D:1102:THR:HA	3:D:1105:ILE:HD13	1.60	0.81
2:H:182:VAL:O	2:H:193:LEU:HD13	1.80	0.81
2:H:334:ARG:HA	2:H:338:GLU:OE2	1.80	0.81
4:O:45:ARG:HG2	4:O:46:PRO:HD2	1.62	0.81
1:A:56:VAL:HG13	1:A:142:VAL:HG12	1.62	0.81
2:C:678:PRO:CG	3:D:947:ILE:HD11	2.08	0.81
3:D:181:ASP:HA	3:D:205:TYR:HB3	1.63	0.81
3:D:1266:ARG:O	3:D:1268:PRO:HD3	1.80	0.81
1:G:188:GLN:HE21	1:G:188:GLN:H	1.28	0.81
2:H:1061:GLU:OE2	3:I:84:ILE:HG21	1.79	0.81
1:K:88:ARG:O	1:K:120:VAL:HG23	1.79	0.81
2:M:54:ILE:CG2	2:M:66:LEU:HB3	2.09	0.81
1:A:11:PHE:HB2	1:A:25:LEU:HD12	1.63	0.81
1:A:206:THR:HG22	1:A:209:GLU:H	1.46	0.81
2:C:402:SER:HA	2:C:566:THR:HG23	1.62	0.81
3:D:10:ILE:HG13	3:D:1434:TRP:CZ2	2.16	0.81
1:G:39:PRO:O	1:G:43:ILE:HG13	1.81	0.81
2:H:557:ARG:HG2	2:H:881:ASN:HD22	1.45	0.81
2:H:678:PRO:HG2	3:I:947:ILE:HD11	1.62	0.81
3:I:655:PRO:HA	3:I:658:LEU:HD12	1.63	0.81
2:M:897:LEU:HB3	2:M:899:GLN:HE21	1.46	0.81
3:N:199:LEU:HD12	3:N:200:ASP:O	1.80	0.81
3:D:141:ILE:HG22	3:D:162:ARG:HH11	1.44	0.81
3:D:202:VAL:O	3:D:395:VAL:HG13	1.80	0.81
3:D:1481:VAL:HG13	4:E:18:ARG:HD3	1.61	0.81
2:H:265:ARG:HB3	2:H:267:TYR:CZ	2.14	0.81

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:950:LEU:HD12	2:H:952:LEU:HD21	1.63	0.81
3:I:400:VAL:HG23	3:I:445:ARG:HG2	1.63	0.81
3:I:809:PRO:O	3:I:812:ALA:HB3	1.80	0.81
2:M:632:ASN:HB3	2:M:633:GLN:HE21	1.45	0.81
3:N:415:VAL:HG13	3:N:419:ASP:HB2	1.60	0.81
2:C:1105:LYS:HD2	2:C:1107:ASN:ND2	1.95	0.81
3:D:204:LEU:HB3	3:D:394:LEU:HG	1.63	0.81
3:N:99:ALA:HA	3:N:575:GLN:HE22	1.46	0.81
1:A:35:THR:HG21	1:B:43:ILE:CD1	2.08	0.80
2:C:939:ARG:HE	2:C:939:ARG:CA	1.91	0.80
2:H:281:LEU:HG	2:H:282:GLY:N	1.95	0.80
2:H:958:THR:HG23	2:H:961:GLU:CG	2.11	0.80
3:I:1412:LYS:O	3:I:1414:PRO:HD3	1.81	0.80
2:M:98:LEU:HD11	2:M:113:VAL:CG2	2.11	0.80
2:M:260:LEU:CB	2:M:291:ALA:HB1	2.10	0.80
2:M:1005:MET:HE1	3:N:648:MET:HG3	1.63	0.80
3:N:355:VAL:CG1	3:N:385:VAL:HG21	2.12	0.80
3:D:843:PHE:CE1	3:D:864:VAL:HG11	2.15	0.80
3:D:1349:VAL:HA	3:D:1368:ILE:HG21	1.63	0.80
2:H:904:PRO:HD2	2:H:908:GLY:HA2	1.63	0.80
3:I:484:PRO:HB3	3:I:488:ARG:HE	1.45	0.80
2:C:368:THR:HB	2:C:369:PRO:HD3	1.63	0.80
2:C:675:ALA:HA	2:C:989:VAL:CG1	2.10	0.80
4:O:51:LEU:O	4:O:53:GLY:N	2.12	0.80
7:Y:128:ALA:HB2	7:Y:140:LEU:HD21	1.62	0.80
7:Z:58:ILE:HA	7:Z:61:ARG:HD3	1.63	0.80
1:A:62:LEU:HD12	1:A:62:LEU:H	1.43	0.80
2:C:673:LEU:HD22	2:C:867:VAL:HG12	1.64	0.80
3:D:39:PRO:HB3	3:D:45:PHE:HB2	1.63	0.80
3:D:792:ILE:HD11	3:D:881:LEU:HD23	1.62	0.80
2:H:218:VAL:O	2:H:221:LEU:HG	1.82	0.80
3:I:96:ALA:HB3	3:I:554:LEU:HD23	1.63	0.80
2:M:162:ILE:HB	2:M:172:ILE:HB	1.63	0.80
3:N:109:PRO:HB3	3:N:494:LYS:HZ1	1.45	0.80
3:N:815:ALA:HA	3:N:818:ARG:HD2	1.62	0.80
7:Y:125:MET:HA	7:Y:140:LEU:HD11	1.63	0.80
3:D:814:ALA:HB1	3:D:818:ARG:HH21	1.45	0.80
2:H:205:GLU:CD	2:H:206:THR:H	1.90	0.80
3:I:800:LYS:HG2	3:I:826:PRO:HD2	1.64	0.80
3:I:1084:THR:O	3:I:1088:THR:HB	1.81	0.80
3:I:1095:THR:O	3:I:1099:VAL:HG23	1.81	0.80

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:412:GLY:HA2	3:N:434:ARG:HD3	1.61	0.80
3:N:1106:VAL:HG12	3:N:1107:VAL:H	1.47	0.80
1:A:161:ARG:NH1	1:A:161:ARG:HB2	1.97	0.80
1:B:94:LEU:HD11	1:B:119:ASP:HB2	1.63	0.80
2:C:676:ILE:CG2	2:C:988:VAL:HG13	2.11	0.80
2:C:859:PRO:O	2:C:867:VAL:HG22	1.79	0.80
2:H:265:ARG:HD3	2:H:267:TYR:CD1	2.16	0.80
3:I:809:PRO:HB2	3:I:812:ALA:CB	2.11	0.80
3:I:1301:LYS:HG3	3:I:1303:TYR:CE1	2.16	0.80
2:M:100:LEU:HD22	2:M:372:LEU:HD21	1.64	0.80
2:M:404:LEU:HA	2:M:407:LYS:HD3	1.61	0.80
2:M:710:ILE:HD13	2:M:711:GLU:N	1.97	0.80
3:N:1118:ILE:HD13	3:N:1190:SER:HB3	1.62	0.80
2:C:52:PHE:CG	2:C:68:PHE:HB2	2.16	0.80
3:D:804:LEU:HB2	3:D:831:GLY:CA	2.12	0.80
2:H:199:VAL:HG13	2:H:235:LEU:HD21	1.62	0.80
2:H:447:ALA:O	2:H:448:ASN:HB2	1.80	0.80
2:H:557:ARG:HD3	2:H:879:ARG:HB3	1.62	0.80
2:H:572:ILE:HG13	2:H:573:ARG:H	1.47	0.80
3:I:109:PRO:HB3	3:I:494:LYS:HZ1	1.41	0.80
3:N:983:LEU:HD23	3:N:983:LEU:N	1.96	0.80
7:Z:102:VAL:HG22	7:Z:119:ILE:HD11	1.63	0.80
3:D:1122:LEU:HD11	3:D:1186:VAL:HG23	1.63	0.80
2:H:49:ARG:HA	2:H:52:PHE:CD2	2.12	0.80
1:K:182:GLU:HG2	1:K:183:ASP:H	1.46	0.80
1:K:186:LEU:HD23	1:K:187:GLY:N	1.96	0.80
2:M:861:LEU:HA	2:M:974:LEU:HD12	1.64	0.80
2:M:878:SER:HA	3:N:1034:GLN:HE22	1.46	0.80
3:N:210:ARG:H	3:N:389:GLU:HB2	1.44	0.80
3:N:462:GLN:HG2	3:N:466:LYS:HE3	1.62	0.80
3:N:655:PRO:HA	3:N:658:LEU:HD12	1.62	0.80
1:F:12:THR:OG1	1:F:24:VAL:HB	1.81	0.80
1:F:123:MET:O	1:F:125:PRO:HD3	1.80	0.80
2:H:467:ILE:H	2:H:467:ILE:HD12	1.46	0.80
3:I:458:ALA:HB2	3:I:575:GLN:HE22	1.46	0.80
3:I:554:LEU:HD22	3:I:574:LEU:HD22	1.63	0.80
3:I:814:ALA:HB1	3:I:818:ARG:HH21	1.47	0.80
2:M:886:LEU:HD13	3:N:951:ILE:HD12	1.64	0.80
2:M:1012:PRO:HG2	2:M:1021:LEU:O	1.82	0.80
1:B:42:ARG:HG2	1:B:42:ARG:HH11	1.47	0.80
1:F:220:GLU:O	1:F:223:THR:HG22	1.82	0.80

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:140:ILE:HG23	2:H:410:ILE:HD12	1.64	0.80
3:N:111:LYS:HG2	3:N:1452:ILE:HD11	1.63	0.80
3:N:141:ILE:HG13	3:N:448:GLU:OE1	1.82	0.80
3:N:850:LEU:H	3:N:850:LEU:HD12	1.46	0.80
3:N:1412:LYS:O	3:N:1414:PRO:HD3	1.80	0.80
1:A:73:GLU:HB2	1:A:78:ILE:HD11	1.63	0.79
2:C:141:HIS:HB3	2:C:418:LEU:CD2	2.12	0.79
3:D:809:PRO:O	3:D:812:ALA:HB3	1.81	0.79
3:D:1093:TYR:CE2	3:D:1097:LYS:CG	2.65	0.79
1:G:20:TYR:HE2	1:G:198:ARG:HB2	1.46	0.79
2:H:115:LEU:HD21	2:H:351:LEU:HD22	1.63	0.79
2:H:183:SER:C	2:H:193:LEU:HD11	2.08	0.79
2:H:1106:ASP:OD1	3:I:7:LYS:HD2	1.82	0.79
3:I:17:LYS:HG2	3:I:21:TRP:NE1	1.95	0.79
3:I:1261:GLU:OE1	3:I:1268:PRO:HA	1.82	0.79
3:N:89:ARG:O	3:N:521:PRO:HG3	1.82	0.79
3:N:141:ILE:HD13	3:N:142:LEU:N	1.97	0.79
3:N:813:LEU:HD12	3:N:814:ALA:N	1.97	0.79
1:A:177:VAL:HG22	1:A:199:ILE:HG23	1.64	0.79
2:C:325:ILE:HD12	2:C:325:ILE:N	1.97	0.79
3:D:109:PRO:HB3	3:D:494:LYS:NZ	1.96	0.79
3:D:563:PRO:HG2	3:D:566:ILE:HD12	1.63	0.79
3:D:1466:VAL:HG12	3:D:1467:ILE:HD13	1.63	0.79
1:G:59:GLU:HG3	1:G:139:ASN:HD22	1.47	0.79
3:I:181:ASP:HB3	3:I:441:ARG:CD	2.12	0.79
3:I:625:TYR:HB3	3:I:749:VAL:CG2	2.13	0.79
3:I:1234:THR:HB	3:I:1235:GLN:OE1	1.80	0.79
4:J:51:LEU:O	4:J:53:GLY:N	2.15	0.79
1:K:86:VAL:HG12	1:K:124:ASN:HB2	1.62	0.79
3:N:806:PHE:HE1	3:N:813:LEU:HB3	1.46	0.79
1:F:188:GLN:H	1:F:188:GLN:HE21	1.30	0.79
2:H:144:PRO:HG2	2:H:265:ARG:HH12	1.47	0.79
3:I:969:ARG:HG3	3:I:970:LYS:N	1.95	0.79
3:I:1063:GLU:CD	3:I:1064:GLY:H	1.91	0.79
1:L:185:ARG:CZ	3:N:692:GLU:HG2	2.12	0.79
2:M:338:GLU:HA	2:M:341:THR:HG22	1.62	0.79
3:D:1277:ILE:HD13	3:D:1301:LYS:HB2	1.62	0.79
3:I:134:VAL:O	3:I:454:ALA:HB1	1.83	0.79
4:J:36:LYS:NZ	4:J:45:ARG:HH22	1.81	0.79
2:M:110:GLU:CD	2:M:369:PRO:HB3	2.06	0.79
2:M:418:LEU:HD12	2:M:418:LEU:N	1.97	0.79

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:405:ASP:HB2	3:N:423:ASP:OD1	1.83	0.79
2:C:654:LEU:HD23	2:C:654:LEU:H	1.44	0.79
3:D:409:VAL:CG1	3:D:410:SER:N	2.46	0.79
3:D:412:GLY:HA2	3:D:434:ARG:HD3	1.64	0.79
2:M:676:ILE:CG2	2:M:988:VAL:HG13	2.12	0.79
1:B:185:ARG:HD3	3:D:692:GLU:OE2	1.83	0.79
4:E:18:ARG:O	4:E:22:VAL:HG23	1.82	0.79
1:F:46:SER:HB3	2:H:856:GLU:CD	2.07	0.79
3:I:1025:GLN:HE21	3:I:1025:GLN:CA	1.90	0.79
3:I:1128:VAL:O	3:I:1129:THR:HG22	1.83	0.79
2:M:289:THR:O	2:M:291:ALA:N	2.15	0.79
2:M:1056:LYS:HD3	3:N:623:VAL:CG1	2.13	0.79
2:C:304:LEU:CD2	2:C:305:PRO:HD3	2.13	0.79
2:C:471:TYR:O	2:C:483:VAL:HG13	1.82	0.79
2:C:744:ARG:HG3	2:C:747:ALA:HB2	1.63	0.79
2:C:1032:PHE:HE2	2:C:1037:VAL:HA	1.48	0.79
3:D:654:LYS:HB3	3:D:655:PRO:HD3	1.65	0.79
2:H:329:GLY:HA3	2:H:489:THR:HG23	1.63	0.79
3:N:206:ARG:HG2	3:N:392:SER:H	1.47	0.79
3:N:356:PRO:CB	3:N:359:ALA:HB2	2.04	0.79
3:N:826:PRO:HD2	3:N:829:VAL:HG22	1.65	0.79
7:X:13:GLU:HG2	7:X:17:GLN:HE21	1.48	0.79
2:C:30:LEU:HD12	2:C:30:LEU:O	1.83	0.79
2:C:74:GLY:O	2:C:76:PRO:HD3	1.82	0.79
3:D:632:VAL:HG23	3:D:725:SER:HB2	1.63	0.79
3:D:864:VAL:HG12	3:D:865:THR:H	1.48	0.79
2:H:897:LEU:HB3	2:H:899:GLN:HE21	1.48	0.79
3:I:1205:TYR:CD2	3:I:1215:VAL:HG21	2.18	0.79
2:C:289:THR:O	2:C:291:ALA:N	2.14	0.79
2:C:477:GLY:HA2	2:C:508:ILE:HD11	1.64	0.79
2:H:224:GLU:O	2:H:228:ALA:HB3	1.82	0.79
3:I:720:LEU:H	3:I:720:LEU:HD12	1.47	0.79
3:I:1007:VAL:HG12	3:I:1011:PHE:CE2	2.18	0.79
2:M:442:GLU:HG2	2:M:454:SER:CB	2.12	0.79
2:M:946:ARG:HD3	2:M:984:GLU:HB2	1.64	0.79
3:N:894:LYS:O	3:N:898:GLU:HG3	1.81	0.79
7:Y:102:VAL:CG1	7:Y:119:ILE:HD11	2.13	0.79
1:B:33:GLY:O	1:B:195:LEU:HD22	1.83	0.79
2:C:148:PHE:HE1	2:C:309:TYR:HD2	1.30	0.79
2:C:253:ALA:O	2:C:257:VAL:HG23	1.83	0.79
2:C:1097:LEU:CD1	3:D:1451:ALA:HB2	2.12	0.79

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:520:LEU:HD11	3:D:524:LEU:HD22	1.65	0.79
3:D:1109:GLU:HG3	3:D:1217:ILE:HD12	1.63	0.79
2:H:142:ARG:NE	2:H:325:ILE:HD12	1.97	0.79
2:H:451:LEU:C	2:H:452:ILE:HD12	2.08	0.79
3:I:982:PHE:C	3:I:982:PHE:HD2	1.91	0.79
2:C:170:PRO:HG2	2:C:258:TYR:CE1	2.18	0.78
2:C:890:LEU:HD21	2:C:901:TYR:CD1	2.18	0.78
2:H:54:ILE:CG2	2:H:66:LEU:HB3	2.12	0.78
3:I:128:TYR:HE2	3:I:458:ALA:HA	1.47	0.78
3:I:1098:LEU:CD2	3:I:1229:ILE:HB	2.12	0.78
2:M:831:ARG:HH12	2:M:1002:GLU:HB2	1.47	0.78
3:N:210:ARG:N	3:N:389:GLU:HB2	1.97	0.78
1:B:76:VAL:O	1:B:79:ILE:HG13	1.83	0.78
2:C:259:GLY:O	2:C:291:ALA:HA	1.83	0.78
2:C:560:MET:O	2:C:564:MET:HG2	1.83	0.78
2:C:1081:VAL:HG13	2:C:1085:PHE:HB3	1.63	0.78
3:D:181:ASP:HA	3:D:205:TYR:CD2	2.18	0.78
3:D:1066:THR:CG2	3:D:1069:GLU:HB2	2.13	0.78
2:H:408:ARG:HH21	2:H:455:LEU:CD1	1.96	0.78
2:H:988:VAL:HG11	3:I:949:ILE:O	1.82	0.78
2:M:274:ARG:HG3	2:M:285:LEU:HD22	1.64	0.78
3:N:411:THR:HG23	3:N:436:GLU:HA	1.63	0.78
3:N:1379:VAL:CG1	3:N:1419:PRO:HA	2.13	0.78
2:C:570:PRO:HD2	2:C:635:THR:HG21	1.63	0.78
2:H:862:PRO:HB3	2:H:929:ARG:HH22	1.47	0.78
3:I:1326:THR:HG22	3:I:1327:ARG:N	1.98	0.78
1:K:206:THR:HG22	1:K:209:GLU:CG	2.12	0.78
1:L:88:ARG:HH11	1:L:123:MET:HE1	1.46	0.78
3:N:355:VAL:HG12	3:N:385:VAL:HG21	1.65	0.78
3:N:714:GLN:OE1	3:N:732:VAL:HG11	1.82	0.78
7:X:14:ARG:HB3	7:X:14:ARG:HH11	1.46	0.78
2:C:134:ARG:NH2	2:C:393:GLN:HA	1.99	0.78
3:D:525:ARG:HB2	3:D:538:SER:HB3	1.64	0.78
3:D:1211:MET:HG2	3:D:1212:ALA:N	1.97	0.78
2:H:896:PHE:CD2	2:H:925:TYR:HB2	2.18	0.78
2:M:442:GLU:HG2	2:M:454:SER:HB2	1.66	0.78
3:N:202:VAL:O	3:N:395:VAL:HG13	1.83	0.78
3:N:356:PRO:HB2	3:N:359:ALA:CB	2.03	0.78
3:N:1106:VAL:HG12	3:N:1107:VAL:N	1.99	0.78
2:C:329:GLY:HA3	2:C:489:THR:HG23	1.64	0.78
3:D:179:VAL:HG22	3:D:183:GLU:OE2	1.84	0.78

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:774:SER:HB3	3:I:1362:LYS:O	1.84	0.78
3:N:203:ALA:HA	3:N:395:VAL:HG22	1.66	0.78
7:Z:22:GLU:HB3	7:Z:62:ILE:HD11	1.65	0.78
1:A:36:LEU:O	1:A:39:PRO:HD2	1.83	0.78
2:H:292:ARG:HG3	2:H:294:GLU:HG2	1.66	0.78
4:J:36:LYS:HE2	4:J:36:LYS:HA	1.65	0.78
2:M:172:ILE:H	2:M:172:ILE:HD12	1.48	0.78
2:M:281:LEU:HG	2:M:282:GLY:H	1.45	0.78
3:N:1080:GLY:CA	7:Z:49:GLU:HG3	2.13	0.78
3:N:1087:ARG:HD2	3:N:1234:THR:O	1.83	0.78
1:A:102:LYS:HD3	1:A:139:ASN:ND2	1.99	0.78
2:C:557:ARG:HG2	2:C:881:ASN:ND2	1.98	0.78
3:D:729:HIS:CE1	3:D:731:LEU:HB2	2.18	0.78
3:D:992:ILE:O	3:D:995:LEU:HB3	1.84	0.78
4:E:59:ASN:HB3	4:E:62:THR:OG1	1.84	0.78
1:F:100:LEU:HD21	1:F:141:GLU:HG3	1.64	0.78
1:L:25:LEU:HD23	1:L:28:LEU:HD11	1.65	0.78
1:L:53:VAL:HG21	1:L:82:LEU:O	1.83	0.78
1:A:87:VAL:HG21	1:A:144:VAL:HG11	1.64	0.78
3:D:470:LEU:HB2	3:D:503:LEU:HD21	1.65	0.78
2:H:78:PHE:HB3	2:H:79:PRO:HD2	1.66	0.78
2:H:221:LEU:C	2:H:223:ASP:H	1.91	0.78
3:I:140:ALA:H	3:I:450:TYR:HE2	1.29	0.78
3:I:163:TYR:HB3	2:M:209:ARG:NH1	1.97	0.78
3:I:644:LEU:HD12	3:I:645:PRO:CD	2.13	0.78
3:I:1348:LEU:HD23	3:I:1372:VAL:HG23	1.66	0.78
2:M:281:LEU:HD11	2:M:305:PRO:O	1.82	0.78
2:M:1092:LEU:HD13	2:M:1099:VAL:HG21	1.66	0.78
2:C:221:LEU:C	2:C:223:ASP:H	1.89	0.78
2:C:239:PHE:HZ	2:C:252:LYS:HA	1.45	0.78
2:C:1097:LEU:HD11	3:D:1451:ALA:HB2	1.65	0.78
3:D:143:ASN:HA	3:D:161:LEU:HD21	1.65	0.78
1:G:185:ARG:HH12	3:I:692:GLU:HB2	1.46	0.78
2:H:758:ARG:HB3	2:H:788:THR:O	1.83	0.78
3:I:1033:GLN:NE2	7:Y:54:GLU:HG2	1.97	0.78
1:K:87:VAL:HG21	1:K:144:VAL:HG11	1.65	0.78
2:M:773:LEU:O	2:M:777:ILE:HG12	1.84	0.78
3:N:1166:LEU:H	3:N:1166:LEU:HD23	1.48	0.78
7:Y:14:ARG:HB3	7:Y:14:ARG:NH1	1.99	0.78
2:C:861:LEU:CG	2:C:862:PRO:HD2	2.10	0.78
3:D:15:PRO:HB3	3:D:515:GLU:OE1	1.82	0.78

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:185:VAL:HG22	3:I:189:GLN:NE2	1.99	0.78
1:L:41:ARG:HH11	1:L:177:VAL:HG23	1.47	0.78
2:M:281:LEU:HD11	2:M:305:PRO:C	2.09	0.78
2:M:1019:GLN:NE2	3:N:621:LYS:HG3	1.98	0.78
3:N:137:PRO:CG	3:N:453:ASP:H	1.89	0.78
3:N:361:VAL:HG13	3:N:379:ALA:HB1	1.64	0.78
2:C:557:ARG:HG2	2:C:881:ASN:HD22	1.48	0.77
2:C:762:LYS:HE2	2:C:768:THR:H	1.49	0.77
3:D:1166:LEU:H	3:D:1166:LEU:CD2	1.93	0.77
3:D:1258:ARG:HH21	3:D:1351:GLU:HG2	1.49	0.77
3:D:1286:THR:O	3:D:1287:GLU:HG2	1.84	0.77
2:H:226:VAL:HG13	2:H:227:PHE:CD1	2.19	0.77
2:M:726:ILE:HD12	2:M:726:ILE:O	1.83	0.77
3:N:165:LYS:NZ	3:N:199:LEU:HD22	1.99	0.77
3:N:996:TRP:CE2	3:N:1056:PRO:HG2	2.19	0.77
2:H:333:ILE:HG23	2:H:410:ILE:HD11	1.63	0.77
2:H:376:ARG:HB3	2:H:377:PRO:HD3	1.65	0.77
2:H:556:ASN:C	2:H:556:ASN:HD22	1.92	0.77
3:I:62:LYS:HE2	3:I:62:LYS:HA	1.66	0.77
3:I:1123:PHE:HE2	3:I:1184:GLN:HA	1.48	0.77
1:L:115:LEU:HD12	1:L:115:LEU:O	1.84	0.77
3:N:477:LEU:HD22	3:N:492:ALA:HB1	1.66	0.77
3:N:1136:LYS:HB2	3:N:1139:ASP:OD2	1.84	0.77
3:N:1305:LEU:HD12	3:N:1311:LEU:HD22	1.66	0.77
1:A:170:VAL:HG23	1:A:170:VAL:O	1.85	0.77
2:C:52:PHE:HZ	2:C:98:LEU:HB3	1.49	0.77
2:C:367:LEU:HD23	2:C:371:LYS:HE3	1.65	0.77
3:D:480:GLU:O	3:D:484:PRO:HD2	1.84	0.77
3:D:1147:ARG:HB3	3:D:1188:VAL:HG21	1.65	0.77
2:H:425:PHE:CZ	3:I:1079:LYS:NZ	2.53	0.77
2:H:603:VAL:HG23	2:H:647:GLN:N	1.99	0.77
2:H:946:ARG:HD3	2:H:984:GLU:HB2	1.64	0.77
3:I:947:ILE:HD12	3:I:947:ILE:O	1.84	0.77
2:M:958:THR:HG23	2:M:961:GLU:CG	2.13	0.77
3:N:347:VAL:HG13	3:N:351:MET:HB3	1.65	0.77
2:C:199:VAL:HG21	2:C:238:LEU:HD12	1.64	0.77
2:C:221:LEU:HD12	2:C:222:MET:N	1.98	0.77
3:D:62:LYS:HB2	3:D:73:CYS:SG	2.24	0.77
3:D:1330:ILE:HD12	3:D:1330:ILE:N	2.00	0.77
2:H:632:ASN:HB3	2:H:633:GLN:NE2	2.00	0.77
2:H:1001:VAL:HB	3:I:724:GLN:CD	2.08	0.77

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:356:PRO:CB	3:N:441:ARG:HA	2.14	0.77
3:N:714:GLN:OE1	3:N:765:SER:HB2	1.84	0.77
2:C:333:ILE:CG1	2:C:410:ILE:HD11	2.15	0.77
2:C:1006:HIS:ND1	2:C:1027:PHE:HD1	1.82	0.77
3:D:813:LEU:HD12	3:D:814:ALA:N	1.99	0.77
3:D:989:TYR:CE2	3:D:993:LEU:HD11	2.19	0.77
2:H:221:LEU:HD12	2:H:222:MET:N	1.99	0.77
3:I:1472:ILE:HD13	3:I:1472:ILE:N	1.99	0.77
3:N:656:PHE:HB3	3:N:694:VAL:HG11	1.67	0.77
2:C:252:LYS:HG3	2:C:252:LYS:O	1.83	0.77
2:C:1096:ALA:HB2	3:D:101:HIS:CD2	2.20	0.77
3:D:783:ARG:HA	3:D:1028:ALA:HA	1.67	0.77
2:M:78:PHE:HB3	2:M:79:PRO:HD2	1.65	0.77
2:M:89:THR:HA	2:M:129:ILE:O	1.83	0.77
3:N:1035:ILE:HA	3:N:1038:LEU:HD12	1.67	0.77
3:D:208:PRO:O	3:D:347:VAL:HB	1.85	0.77
3:D:409:VAL:CG1	3:D:410:SER:H	1.97	0.77
1:F:57:TYR:CE2	1:F:161:ARG:HD2	2.19	0.77
3:I:564:GLU:H	2:M:223:ASP:HB2	1.50	0.77
3:I:843:PHE:CD2	3:I:849:ALA:HA	2.19	0.77
3:I:1426:LYS:HA	3:I:1429:LEU:HD22	1.67	0.77
1:K:64:GLU:OE2	1:K:79:ILE:HG12	1.85	0.77
2:M:140:ILE:HD11	2:M:412:ALA:HA	1.66	0.77
2:M:668:LEU:HD12	2:M:668:LEU:N	2.00	0.77
2:M:839:LEU:N	2:M:839:LEU:HD23	2.00	0.77
3:N:809:PRO:O	3:N:812:ALA:HB3	1.84	0.77
7:Y:112:VAL:HG13	7:Y:117:MET:CE	2.13	0.77
2:H:158:TYR:CD1	2:H:313:LEU:HD21	2.19	0.77
2:H:693:GLU:OE1	2:H:696:LYS:HD2	1.83	0.77
2:H:771:GLU:O	2:H:771:GLU:HG2	1.85	0.77
3:I:642:CYS:HB3	3:I:716:PHE:CB	2.14	0.77
3:N:799:LYS:O	3:N:799:LYS:HD3	1.85	0.77
2:C:480:THR:HG22	2:C:481:ASP:H	1.50	0.77
2:H:1004:LYS:O	3:I:629:SER:HA	1.84	0.77
2:M:1037:VAL:HG13	2:M:1049:LEU:HD11	1.67	0.77
1:A:86:VAL:CG1	1:A:124:ASN:HB2	2.15	0.77
1:A:115:LEU:HD22	1:F:161:ARG:NH2	1.98	0.77
2:C:22:GLN:HB3	2:C:121:MET:HE1	1.65	0.77
2:C:267:TYR:HB2	2:C:272:ALA:HB1	1.65	0.77
2:C:447:ALA:O	2:C:448:ASN:HB2	1.85	0.77
3:I:18:ILE:HG23	3:I:518:PRO:HG3	1.67	0.77

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:139:GLY:HA3	3:I:162:ARG:CZ	2.15	0.77
3:I:827:ILE:O	3:I:827:ILE:HG22	1.85	0.77
3:I:1231:GLU:HB3	3:I:1232:PRO:HD3	1.63	0.77
1:B:84:GLU:HG2	1:B:127:LEU:HD11	1.66	0.76
2:C:369:PRO:HG2	2:C:370:ALA:H	1.47	0.76
2:H:267:TYR:HB2	2:H:272:ALA:HB1	1.65	0.76
2:M:101:ILE:HG23	2:M:107:LEU:CD2	2.14	0.76
3:N:470:LEU:CB	3:N:503:LEU:HD21	2.13	0.76
3:N:646:LYS:HG3	3:N:647:ARG:H	1.50	0.76
3:N:890:VAL:HG11	3:N:922:LEU:HD13	1.66	0.76
3:N:1326:THR:HG22	3:N:1327:ARG:N	2.01	0.76
2:C:64:LEU:HD22	2:C:359:MET:HG3	1.66	0.76
3:D:84:ILE:HG22	3:D:87:ARG:NE	2.00	0.76
4:E:54:LEU:HD21	4:E:58:PRO:HG3	1.68	0.76
3:I:484:PRO:HB3	3:I:488:ARG:NE	2.00	0.76
3:I:959:GLU:N	3:I:959:GLU:OE2	2.19	0.76
3:N:991:GLN:OE1	7:Z:112:VAL:HB	1.85	0.76
3:N:1285:GLU:O	3:N:1286:THR:CG2	2.32	0.76
1:A:74:ASP:O	1:A:78:ILE:HG12	1.84	0.76
2:C:1085:PHE:HE2	3:D:1468:LEU:HG	1.49	0.76
3:D:639:LEU:CD1	3:D:766:ALA:HB2	2.14	0.76
3:D:1109:GLU:HG2	3:D:1201:CYS:CA	2.15	0.76
2:H:707:ARG:HG3	2:H:826:TYR:CE1	2.21	0.76
3:I:1136:LYS:HB2	3:I:1139:ASP:OD2	1.84	0.76
1:L:86:VAL:HG13	1:L:123:MET:HG2	1.67	0.76
2:M:516:ARG:NE	3:N:1068:LEU:HD22	1.99	0.76
1:B:62:LEU:H	1:B:62:LEU:HD12	1.51	0.76
1:B:177:VAL:HG12	1:B:199:ILE:HD12	1.67	0.76
3:D:996:TRP:O	3:D:1000:THR:HG22	1.86	0.76
3:D:1231:GLU:HB3	3:D:1232:PRO:HD3	1.68	0.76
1:F:26:GLU:HB3	1:F:194:LYS:HG3	1.66	0.76
2:H:39:ARG:H	2:H:39:ARG:HD2	1.50	0.76
2:M:98:LEU:N	2:M:98:LEU:HD12	1.99	0.76
2:M:851:LYS:HG2	2:M:853:LEU:HD12	1.67	0.76
2:M:950:LEU:HB3	2:M:952:LEU:HD23	1.64	0.76
4:O:18:ARG:O	4:O:22:VAL:HG23	1.85	0.76
1:A:90:LEU:HD13	1:A:119:ASP:O	1.86	0.76
2:C:212:GLY:HA3	2:C:218:VAL:HG21	1.66	0.76
3:D:13:ALA:HB1	3:D:18:ILE:HD11	1.67	0.76
2:H:418:LEU:HD12	2:H:418:LEU:N	2.00	0.76
2:H:626:ARG:HB2	2:H:639:GLN:HE21	1.49	0.76

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1013:TYR:HB3	2:H:1018:GLN:HE22	1.50	0.76
2:H:1089:VAL:HG21	2:H:1111:ILE:HD13	1.65	0.76
3:I:134:VAL:CG2	3:I:460:ALA:HB1	2.14	0.76
3:I:600:LEU:H	3:I:600:LEU:HD12	1.51	0.76
3:N:608:SER:HB3	3:N:1443:THR:OG1	1.85	0.76
1:A:218:LEU:HD23	1:B:222:LEU:HD21	1.66	0.76
2:C:300:ASP:C	2:C:302:VAL:H	1.94	0.76
2:C:630:ARG:HD3	2:C:705:ILE:HB	1.68	0.76
3:I:581:LEU:HD23	3:I:581:LEU:H	1.50	0.76
3:N:701:LEU:HD11	3:N:750:PRO:HG3	1.67	0.76
3:D:970:LYS:NZ	7:X:113:LEU:HD23	2.00	0.76
1:F:24:VAL:HG13	1:F:196:THR:HG22	1.66	0.76
2:H:56:GLU:HB3	2:H:359:MET:SD	2.26	0.76
2:H:300:ASP:C	2:H:302:VAL:H	1.93	0.76
2:H:495:THR:HG21	2:H:517:ARG:NH2	1.94	0.76
3:I:544:TYR:O	3:I:548:ILE:HD13	1.85	0.76
2:M:199:VAL:HG21	2:M:238:LEU:HD12	1.66	0.76
3:D:123:LEU:HD21	3:D:151:GLN:NE2	2.00	0.76
3:D:686:GLU:HA	3:D:689:ASP:OD2	1.85	0.76
1:F:86:VAL:CG1	1:F:124:ASN:HB2	2.16	0.76
3:I:729:HIS:CE1	3:I:731:LEU:H	2.03	0.76
1:K:74:ASP:O	1:K:78:ILE:HG13	1.85	0.76
3:N:928:ALA:HA	3:N:931:LEU:HD12	1.67	0.76
2:C:1095:LEU:HD11	2:C:1097:LEU:HD23	1.66	0.76
3:D:123:LEU:HD21	3:D:151:GLN:HE22	1.49	0.76
3:D:179:VAL:CG1	3:D:183:GLU:HB3	2.15	0.76
3:D:925:GLU:HB2	4:E:2:ALA:HB3	1.68	0.76
2:H:110:GLU:CG	2:H:369:PRO:HG3	2.15	0.76
3:I:670:VAL:HG13	3:I:671:LYS:H	1.50	0.76
3:I:1000:THR:O	3:I:1003:VAL:HG12	1.86	0.76
2:M:260:LEU:HD12	2:M:260:LEU:O	1.85	0.76
2:M:403:SER:O	2:M:407:LYS:HG3	1.85	0.76
3:N:95:LEU:HD21	3:N:574:LEU:CD1	2.14	0.76
3:N:495:ARG:O	3:N:499:VAL:HG23	1.86	0.76
3:N:701:LEU:HD11	3:N:750:PRO:CG	2.15	0.76
3:N:1311:LEU:HD23	3:N:1311:LEU:N	2.00	0.76
1:A:62:LEU:HD12	1:A:62:LEU:N	2.00	0.76
3:D:486:ARG:HA	3:D:489:ARG:HG2	1.67	0.76
3:D:1093:TYR:CE2	3:D:1097:LYS:HG2	2.21	0.76
3:N:135:LEU:HD22	3:N:148:GLU:O	1.85	0.76
3:N:1021:TYR:CE2	3:N:1025:GLN:HG2	2.21	0.76

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:48:ILE:HD12	1:B:48:ILE:H	1.52	0.75
2:C:84:ARG:HH11	2:C:84:ARG:HG3	1.51	0.75
3:D:1408:ILE:H	3:D:1408:ILE:HD12	1.49	0.75
2:H:549:PHE:CD2	2:H:886:LEU:HB3	2.21	0.75
3:I:642:CYS:HB3	3:I:716:PHE:HB2	1.68	0.75
2:M:352:ALA:HA	2:M:355:VAL:HG12	1.68	0.75
3:N:18:ILE:CG2	3:N:518:PRO:HG3	2.15	0.75
2:C:258:TYR:HE2	2:C:290:LEU:HD11	1.51	0.75
2:C:673:LEU:CD2	2:C:867:VAL:HG12	2.17	0.75
2:H:580:MET:HB3	2:H:584:GLU:CD	2.11	0.75
3:I:1326:THR:HG22	3:I:1327:ARG:H	1.51	0.75
2:M:428:ARG:HG3	2:M:451:LEU:HD21	1.68	0.75
3:N:108:VAL:HB	3:N:109:PRO:CD	2.16	0.75
3:N:826:PRO:O	3:N:829:VAL:HG23	1.85	0.75
3:N:1330:ILE:HG21	3:N:1335:LEU:HD22	1.65	0.75
2:C:140:ILE:CD1	2:C:412:ALA:HA	2.16	0.75
2:C:950:LEU:HD12	2:C:952:LEU:HD21	1.68	0.75
3:D:157:GLU:HB3	3:D:161:LEU:HD13	1.68	0.75
3:D:482:LYS:HE2	3:D:1388:ARG:HH21	1.52	0.75
3:D:706:PRO:HG3	6:Q:10:G:N2	2.02	0.75
2:H:744:ARG:HG3	2:H:747:ALA:HB2	1.69	0.75
3:I:625:TYR:HB3	3:I:749:VAL:HG23	1.66	0.75
1:K:46:SER:HB3	2:M:856:GLU:HG2	1.68	0.75
3:N:729:HIS:HD2	3:N:731:LEU:H	1.32	0.75
1:G:185:ARG:HD2	1:G:186:LEU:N	2.01	0.75
2:H:84:ARG:HE	2:H:128:ILE:HD11	1.51	0.75
2:H:157:ARG:NH1	2:H:314:THR:HB	2.01	0.75
2:H:831:ARG:HH12	2:H:1002:GLU:HB2	1.51	0.75
3:I:857:ILE:HD12	3:I:857:ILE:N	1.99	0.75
2:M:462:ASP:HB3	2:M:468:ARG:CD	2.15	0.75
3:N:141:ILE:HG13	3:N:448:GLU:CD	2.11	0.75
2:C:218:VAL:O	2:C:221:LEU:HG	1.86	0.75
2:C:408:ARG:HH21	2:C:455:LEU:CD1	1.91	0.75
1:F:36:LEU:O	1:F:39:PRO:HD2	1.84	0.75
1:G:133:GLU:HG3	1:G:134:GLU:H	1.51	0.75
2:H:282:GLY:C	2:H:283:ILE:HG13	2.10	0.75
2:H:772:ARG:HH11	3:N:484:PRO:HA	1.50	0.75
3:I:1099:VAL:O	3:I:1103:HIS:HB3	1.87	0.75
4:J:36:LYS:HZ1	4:J:45:ARG:HH22	1.33	0.75
3:N:87:ARG:HB3	3:N:523:ASP:CB	2.16	0.75
3:N:104:PHE:O	3:N:112:ILE:HG22	1.85	0.75

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:465:LEU:HD21	3:N:509:PRO:HB2	1.66	0.75
7:Y:5:VAL:O	7:Y:73:VAL:HG23	1.86	0.75
3:D:1093:TYR:CE2	3:D:1097:LYS:HG3	2.22	0.75
1:G:40:LEU:HA	1:G:43:ILE:HD12	1.69	0.75
1:G:56:VAL:HG12	1:G:57:TYR:N	2.01	0.75
2:H:687:ALA:C	2:H:688:ILE:HD12	2.11	0.75
3:I:164:GLY:O	2:M:209:ARG:CG	2.31	0.75
3:I:820:GLU:HG3	3:I:836:VAL:CG2	2.16	0.75
4:J:59:ASN:ND2	4:J:61:VAL:HG22	2.02	0.75
1:K:165:ILE:HD13	1:K:165:ILE:H	1.51	0.75
2:M:221:LEU:C	2:M:223:ASP:H	1.93	0.75
2:M:250:ARG:O	2:M:252:LYS:N	2.17	0.75
3:N:600:LEU:HD12	3:N:600:LEU:H	1.51	0.75
3:N:996:TRP:HA	3:N:999:THR:CG2	2.16	0.75
2:C:260:LEU:CB	2:C:291:ALA:HB1	2.15	0.75
2:C:1004:LYS:HG2	3:D:630:VAL:CG2	2.15	0.75
3:D:925:GLU:CB	4:E:2:ALA:HB3	2.16	0.75
2:H:165:LEU:HD12	2:H:166:PRO:C	2.10	0.75
2:H:524:VAL:HG12	2:H:525:SER:N	2.00	0.75
2:M:272:ALA:HA	2:M:464:LEU:CD2	2.17	0.75
2:M:300:ASP:C	2:M:302:VAL:H	1.93	0.75
2:M:687:ALA:C	2:M:688:ILE:HD12	2.11	0.75
3:D:1326:THR:HG22	3:D:1327:ARG:H	1.51	0.75
2:H:878:SER:O	3:I:1034:GLN:NE2	2.19	0.75
3:I:1119:SER:O	3:I:1121:PRO:HD3	1.85	0.75
4:J:47:LYS:HA	4:J:54:LEU:HB3	1.67	0.75
1:L:221:HIS:HA	1:L:224:TYR:CD2	2.21	0.75
3:N:1101:VAL:HG23	3:N:1102:THR:HG23	1.68	0.75
1:A:54:THR:HG22	1:A:158:ILE:CD1	2.16	0.75
2:C:861:LEU:HD23	2:C:863:ASP:H	1.52	0.75
2:C:1095:LEU:HD11	2:C:1097:LEU:CD2	2.17	0.75
3:D:1128:VAL:O	3:D:1128:VAL:HG12	1.84	0.75
4:E:64:ALA:O	4:E:68:LEU:HD13	1.86	0.75
1:G:199:ILE:HD12	1:G:199:ILE:N	2.01	0.75
1:K:39:PRO:HG3	1:L:39:PRO:CG	2.17	0.75
2:M:31:GLN:NE2	2:M:34:VAL:HG23	2.02	0.75
2:M:259:GLY:O	2:M:291:ALA:HA	1.86	0.75
2:M:642:ARG:HG3	2:M:657:ASP:OD2	1.86	0.75
1:B:39:PRO:O	1:B:43:ILE:HG12	1.87	0.74
2:C:126:SER:HB2	2:C:395:LYS:HZ2	1.52	0.74
3:D:86:ARG:CZ	3:D:86:ARG:HB3	2.15	0.74

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:537:LYS:HG3	2:H:545:ASN:OD1	1.87	0.74
3:I:166:GLN:HG2	3:I:396:VAL:HG12	1.67	0.74
3:I:996:TRP:CD2	3:I:1056:PRO:HG2	2.21	0.74
3:N:135:LEU:HG	3:N:136:ASP:N	2.01	0.74
3:N:465:LEU:HD11	3:N:512:MET:HB2	1.68	0.74
3:N:1326:THR:HG22	3:N:1327:ARG:H	1.50	0.74
1:B:44:LEU:HA	1:B:48:ILE:HD11	1.68	0.74
2:C:304:LEU:HD23	2:C:305:PRO:HD3	1.68	0.74
2:C:455:LEU:C	2:C:455:LEU:HD12	2.12	0.74
3:D:1330:ILE:HD13	3:D:1347:TYR:OH	1.87	0.74
2:H:691:SER:HA	2:H:858:MET:HE1	1.69	0.74
3:I:28:LYS:CD	3:I:29:PRO:HD2	2.17	0.74
2:M:1004:LYS:CG	3:N:630:VAL:HG23	2.14	0.74
3:N:26:VAL:HG13	3:N:43:GLY:O	1.87	0.74
3:N:158:TYR:HE1	3:N:452:ILE:HD11	1.53	0.74
3:N:686:GLU:HA	3:N:689:ASP:OD2	1.88	0.74
1:A:156:HIS:HD2	1:A:157:GLY:N	1.83	0.74
3:D:1114:THR:HG21	3:D:1195:GLN:HB3	1.69	0.74
2:H:535:SER:O	2:H:538:GLN:HG2	1.88	0.74
3:I:465:LEU:HD21	3:I:509:PRO:HB2	1.68	0.74
3:I:507:ASN:H	3:I:507:ASN:ND2	1.73	0.74
1:K:67:THR:HG21	2:M:627:ARG:HD2	1.68	0.74
2:M:905:ILE:HD12	2:M:905:ILE:N	2.00	0.74
3:N:166:GLN:NE2	3:N:394:LEU:HB2	1.99	0.74
3:N:729:HIS:HD2	3:N:731:LEU:N	1.86	0.74
3:N:875:THR:CG2	3:N:879:ARG:HB2	2.18	0.74
2:C:154:ARG:HH22	2:C:178:PRO:HD2	1.52	0.74
2:C:432:ARG:NH2	3:D:1047:LYS:HD3	2.02	0.74
2:C:437:ARG:NH2	2:C:488:ALA:HA	2.01	0.74
4:E:48:MET:HB2	4:E:54:LEU:HB2	1.69	0.74
1:F:86:VAL:HG12	1:F:124:ASN:HB2	1.70	0.74
2:H:352:ALA:HA	2:H:355:VAL:CG1	2.17	0.74
3:I:17:LYS:O	3:I:20:SER:HB3	1.87	0.74
3:N:52:PRO:HG3	3:N:78:VAL:HG13	1.69	0.74
3:N:762:GLN:HE21	4:O:20:THR:HG21	1.52	0.74
3:N:809:PRO:HB2	3:N:812:ALA:CB	2.17	0.74
4:O:70:THR:HG21	4:O:72:ARG:NE	2.02	0.74
2:C:158:TYR:CD1	2:C:313:LEU:HD21	2.23	0.74
3:D:980:MET:HB3	3:D:982:PHE:CE2	2.23	0.74
1:F:206:THR:OG1	1:F:207:PRO:HD2	1.87	0.74
2:H:140:ILE:HD13	2:H:331:ARG:HH21	1.51	0.74

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:151:ASP:HB2	2:H:157:ARG:O	1.86	0.74
3:I:793:THR:HG21	3:I:906:GLN:HG2	1.68	0.74
2:M:758:ARG:HB3	2:M:788:THR:O	1.87	0.74
2:M:905:ILE:CD1	2:M:905:ILE:H	2.00	0.74
3:N:827:ILE:H	3:N:827:ILE:CD1	1.92	0.74
3:D:843:PHE:HE1	3:D:864:VAL:HG11	1.52	0.74
3:D:1091:SER:HG	5:P:19:DC:H6	1.35	0.74
3:D:1389:LEU:O	3:D:1390:LEU:HB2	1.86	0.74
2:H:302:VAL:O	2:H:305:PRO:HD2	1.88	0.74
3:I:136:ASP:HB3	3:I:137:PRO:HD3	1.68	0.74
4:J:64:ALA:O	4:J:68:LEU:HD13	1.86	0.74
1:K:39:PRO:HG3	1:L:39:PRO:HG2	1.68	0.74
1:L:206:THR:HG23	1:L:208:LEU:H	1.51	0.74
2:M:182:VAL:HG12	2:M:193:LEU:CD2	2.16	0.74
2:M:368:THR:HB	2:M:369:PRO:HD3	1.67	0.74
3:N:119:SER:HB2	3:N:123:LEU:N	2.01	0.74
3:N:1262:LEU:HD23	3:N:1352:ILE:HD13	1.68	0.74
2:C:212:GLY:CA	2:C:218:VAL:HG21	2.18	0.74
3:D:87:ARG:HB2	3:D:524:LEU:CD1	2.17	0.74
3:D:1448:THR:O	3:D:1452:ILE:HD13	1.88	0.74
2:H:151:ASP:OD1	2:H:154:ARG:HB3	1.87	0.74
3:I:701:LEU:N	3:I:701:LEU:HD12	2.03	0.74
3:I:1166:LEU:HD12	3:I:1171:VAL:HG22	1.67	0.74
1:B:20:TYR:HD2	1:B:21:GLY:N	1.84	0.74
2:C:274:ARG:CB	2:C:285:LEU:HD13	2.16	0.74
2:H:261:ILE:HG22	2:H:266:ARG:HH21	1.52	0.74
2:H:1087:VAL:O	2:H:1091:GLU:HG3	1.87	0.74
1:K:62:LEU:HD23	1:K:163:ASN:ND2	2.03	0.74
1:K:220:GLU:O	1:K:223:THR:HG22	1.86	0.74
2:M:139:GLN:HE22	2:M:415:PRO:HD3	1.53	0.74
3:N:127:LEU:HD12	3:N:128:TYR:N	2.02	0.74
3:N:1102:THR:HA	3:N:1105:ILE:CD1	2.18	0.74
7:X:13:GLU:HG2	7:X:17:GLN:NE2	2.03	0.74
1:A:41:ARG:HH11	1:A:41:ARG:HG3	1.53	0.74
2:C:474:VAL:HG23	2:C:478:VAL:O	1.85	0.74
2:C:516:ARG:CZ	3:D:1068:LEU:HD22	2.18	0.74
3:D:1047:LYS:HB3	3:D:1048:PRO:CD	2.18	0.74
2:H:157:ARG:HD3	2:H:314:THR:HG21	1.70	0.74
2:H:1032:PHE:O	2:H:1036:GLU:HB2	1.87	0.74
2:M:26:TYR:CE1	2:M:340:MET:HE3	2.22	0.74
3:N:945:SER:OG	3:N:947:ILE:HG13	1.88	0.74

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:977:ALA:C	3:N:983:LEU:HD21	2.13	0.74
7:Y:139:SER:OG	7:Y:148:GLU:HG3	1.88	0.74
1:A:58:ILE:HD13	1:A:140:MET:CB	2.17	0.74
1:B:38:ASN:HB3	1:B:39:PRO:HD3	1.70	0.74
3:D:108:VAL:CB	3:D:109:PRO:HD3	2.18	0.74
3:D:134:VAL:O	3:D:454:ALA:HB1	1.87	0.74
3:D:792:ILE:O	3:D:878:GLY:HA3	1.88	0.74
1:G:86:VAL:HG12	1:G:124:ASN:ND2	2.02	0.74
3:I:145:VAL:HG22	3:I:146:PRO:HD2	1.69	0.74
3:I:1311:LEU:N	3:I:1311:LEU:HD23	2.03	0.74
1:L:94:LEU:HD22	1:L:97:VAL:HG21	1.70	0.74
2:M:432:ARG:NH2	3:N:1047:LYS:HD3	2.03	0.74
2:M:949:LYS:HD3	3:N:796:ARG:NH2	2.03	0.74
2:M:1019:GLN:HG3	3:N:621:LYS:NZ	2.02	0.74
3:N:581:LEU:HD23	3:N:581:LEU:H	1.53	0.74
3:N:1264:GLU:OE1	3:N:1424:VAL:HG13	1.88	0.74
2:C:115:LEU:HA	2:C:375:SER:OG	1.87	0.73
3:D:1402:ALA:HB2	3:D:1415:VAL:CG2	2.18	0.73
1:F:117:VAL:HB	1:F:120:VAL:CG1	2.18	0.73
1:F:225:PHE:CE2	1:G:25:LEU:HD22	2.23	0.73
2:H:165:LEU:HB3	2:H:265:ARG:HH12	1.50	0.73
2:H:683:ASN:HA	2:H:687:ALA:HB3	1.68	0.73
2:M:137:VAL:O	2:M:391:LEU:HD21	1.88	0.73
2:M:535:SER:O	2:M:538:GLN:HG2	1.88	0.73
2:M:1046:ALA:CB	3:N:1471:LEU:HD11	2.07	0.73
2:C:874:LEU:HD21	3:D:787:LEU:CD2	2.18	0.73
3:D:475:LYS:HA	3:D:478:LEU:HG	1.69	0.73
3:D:847:ASP:O	3:D:851:LEU:HG	1.88	0.73
3:D:1171:VAL:O	3:D:1175:ILE:HG13	1.88	0.73
2:H:903:SER:OG	2:H:908:GLY:HA3	1.88	0.73
3:I:1369:GLU:O	3:I:1372:VAL:HG12	1.87	0.73
2:M:571:LEU:HD23	2:M:670:GLN:HE21	1.52	0.73
3:N:643:GLY:O	3:N:726:ILE:HG23	1.88	0.73
7:Z:134:VAL:HG22	7:Z:153:ALA:HA	1.68	0.73
1:A:88:ARG:HD3	1:A:123:MET:HE1	1.69	0.73
2:C:98:LEU:HD12	2:C:98:LEU:H	1.53	0.73
3:D:1025:GLN:HA	3:D:1025:GLN:NE2	2.02	0.73
2:H:250:ARG:O	2:H:252:LYS:N	2.17	0.73
2:H:736:ASP:O	2:H:744:ARG:HG2	1.88	0.73
3:I:581:LEU:HD23	3:I:581:LEU:N	2.04	0.73
2:M:885:ILE:HD12	2:M:885:ILE:N	2.02	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:445:ARG:HH11	3:N:445:ARG:HG2	1.52	0.73
3:N:462:GLN:O	3:N:466:LYS:HG3	1.86	0.73
2:C:258:TYR:CE2	2:C:290:LEU:HD11	2.23	0.73
2:C:304:LEU:CG	2:C:305:PRO:HD3	2.19	0.73
1:G:58:ILE:HD13	1:G:140:MET:HB3	1.71	0.73
3:I:771:SER:HB3	3:I:778:LEU:HD13	1.70	0.73
3:I:826:PRO:HD2	3:I:829:VAL:HG22	1.69	0.73
3:I:868:TYR:HE1	3:I:869:MET:HE2	1.54	0.73
1:L:59:GLU:HB2	1:L:137:ARG:NH1	2.02	0.73
3:N:179:VAL:CG1	3:N:183:GLU:HB3	2.19	0.73
3:N:827:ILE:HD12	3:N:827:ILE:N	1.99	0.73
3:N:1211:MET:CG	3:N:1212:ALA:H	1.96	0.73
3:D:95:LEU:HD21	3:D:574:LEU:HD11	1.70	0.73
3:D:408:GLU:HG3	3:D:409:VAL:N	2.01	0.73
3:D:583:ASP:OD1	3:D:586:ARG:HG2	1.89	0.73
2:H:890:LEU:HD21	2:H:901:TYR:CG	2.24	0.73
3:I:118:LEU:O	3:I:120:ALA:N	2.21	0.73
3:I:554:LEU:O	3:I:558:LEU:HG	1.87	0.73
3:I:812:ALA:HB1	3:I:816:HIS:CD2	2.24	0.73
3:I:1062:ARG:HG3	3:I:1062:ARG:NH1	2.01	0.73
2:M:940:GLU:O	2:M:943:VAL:HG12	1.87	0.73
3:N:513:ILE:HD12	3:N:513:ILE:O	1.88	0.73
3:N:996:TRP:CA	3:N:999:THR:HG22	2.18	0.73
4:O:33:HIS:CG	4:O:89:MET:HG2	2.23	0.73
3:D:826:PRO:HD2	3:D:829:VAL:HG22	1.69	0.73
1:F:41:ARG:O	1:F:45:LEU:HD13	1.87	0.73
1:K:32:PHE:HZ	1:L:47:SER:HB2	1.53	0.73
2:M:161:SER:C	2:M:162:ILE:HD12	2.13	0.73
2:M:445:GLU:HG3	2:M:560:MET:CE	2.17	0.73
2:M:710:ILE:HG21	2:M:756:VAL:HG11	1.71	0.73
3:N:793:THR:HG21	3:N:906:GLN:HG2	1.69	0.73
3:D:525:ARG:O	3:D:525:ARG:HG2	1.87	0.73
3:D:1452:ILE:H	3:D:1452:ILE:CD1	2.01	0.73
3:I:14:SER:O	3:I:18:ILE:HG13	1.88	0.73
3:I:25:GLU:HB2	3:I:92:HIS:CE1	2.24	0.73
3:I:759:ALA:O	3:I:763:MET:HB3	1.88	0.73
3:N:571:LYS:O	3:N:574:LEU:HB3	1.88	0.73
3:N:1147:ARG:HB3	3:N:1188:VAL:HG21	1.71	0.73
3:N:1372:VAL:HA	3:N:1375:MET:HE3	1.69	0.73
2:C:165:LEU:HB3	2:C:265:ARG:CZ	2.19	0.73
3:D:141:ILE:HD13	3:D:142:LEU:O	1.88	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:160:GLU:OE2	3:D:165:LYS:HD2	1.89	0.73
3:D:804:LEU:HD23	3:D:804:LEU:N	2.02	0.73
3:D:1326:THR:HG22	3:D:1327:ARG:N	2.03	0.73
4:E:41:GLU:O	4:E:45:ARG:HD2	1.89	0.73
3:I:1349:VAL:HA	3:I:1368:ILE:HG21	1.70	0.73
4:J:59:ASN:HD21	4:J:61:VAL:HG22	1.54	0.73
1:L:56:VAL:HG13	1:L:142:VAL:HG12	1.71	0.73
2:M:157:ARG:HD3	2:M:314:THR:HG21	1.70	0.73
3:N:160:GLU:HG2	3:N:165:LYS:HG3	1.70	0.73
3:N:704:ARG:NH1	3:N:743:ASP:HB3	2.03	0.73
3:N:1211:MET:HG2	3:N:1212:ALA:N	1.93	0.73
3:D:367:ILE:HB	3:D:377:VAL:HG12	1.70	0.73
3:D:977:ALA:HB1	3:D:983:LEU:HD21	1.70	0.73
2:H:110:GLU:HG3	2:H:369:PRO:CB	2.18	0.73
1:L:73:GLU:OE1	1:L:130:ALA:HA	1.89	0.73
1:L:185:ARG:NE	3:N:692:GLU:HG2	2.04	0.73
2:M:172:ILE:HD12	2:M:172:ILE:N	2.04	0.73
2:M:195:LEU:CG	2:M:238:LEU:HG	2.19	0.73
2:M:710:ILE:HD11	2:M:758:ARG:NE	2.03	0.73
2:M:885:ILE:H	2:M:885:ILE:CD1	2.01	0.73
2:C:198:ARG:HD3	2:C:228:ALA:HA	1.70	0.73
3:D:52:PRO:O	3:D:86:ARG:HD3	1.88	0.73
3:D:101:HIS:ND1	3:D:103:TRP:HB2	2.03	0.73
1:F:206:THR:CG2	1:F:209:GLU:H	2.01	0.73
2:H:193:LEU:N	2:H:193:LEU:HD12	2.03	0.73
2:H:685:GLU:HG3	7:Y:41:ASP:OD1	1.89	0.73
2:H:772:ARG:NH1	3:N:484:PRO:HA	2.04	0.73
3:I:402:PRO:HA	3:I:443:VAL:HG23	1.70	0.73
3:I:567:ILE:HG22	3:I:571:LYS:HE3	1.71	0.73
4:J:54:LEU:HD23	4:J:54:LEU:O	1.88	0.73
2:M:86:LYS:HD3	2:M:813:VAL:HB	1.71	0.73
3:N:683:ILE:HD13	3:N:688:TRP:CH2	2.24	0.73
2:C:92:ALA:HB2	2:C:120:LEU:HD11	1.71	0.72
2:C:571:LEU:HD11	2:C:701:THR:N	2.04	0.72
3:D:108:VAL:HB	3:D:109:PRO:CD	2.19	0.72
3:D:1093:TYR:CZ	3:D:1097:LYS:CG	2.72	0.72
3:D:1094:LEU:HG	3:D:1098:LEU:CD1	2.19	0.72
3:I:143:ASN:HA	3:I:161:LEU:HD21	1.71	0.72
3:I:415:VAL:HG13	3:I:419:ASP:HB2	1.71	0.72
3:I:820:GLU:CG	3:I:836:VAL:HG21	2.18	0.72
3:I:982:PHE:CE2	7:Y:119:ILE:HG23	2.24	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:1253:THR:HG21	3:I:1261:GLU:OE2	1.89	0.72
1:K:41:ARG:O	1:K:45:LEU:HD13	1.87	0.72
2:M:395:LYS:HD3	2:M:397:GLU:OE2	1.89	0.72
3:N:108:VAL:CB	3:N:109:PRO:HD3	2.16	0.72
3:N:204:LEU:HD11	3:N:441:ARG:HH12	1.53	0.72
3:N:474:GLU:O	3:N:478:LEU:HG	1.89	0.72
3:N:481:MET:CE	3:N:493:ARG:HA	2.18	0.72
3:N:860:LEU:HD22	3:N:878:GLY:HA2	1.70	0.72
7:Y:13:GLU:HG2	7:Y:17:GLN:NE2	2.04	0.72
2:C:25:SER:OG	2:C:335:THR:HB	1.89	0.72
2:C:442:GLU:HG2	2:C:454:SER:HB2	1.69	0.72
2:C:1040:LEU:HD21	2:C:1048:THR:HG22	1.71	0.72
2:C:1099:VAL:HG22	3:D:10:ILE:HG12	1.71	0.72
3:D:1387:SER:HB3	3:D:1391:GLU:OE2	1.88	0.72
2:H:177:GLU:OE1	2:H:179:ASN:HB3	1.89	0.72
3:I:804:LEU:HD22	3:I:829:VAL:HB	1.71	0.72
3:I:1319:VAL:HA	3:I:1323:GLN:HE22	1.53	0.72
2:M:199:VAL:HG13	2:M:235:LEU:HG	1.70	0.72
2:M:267:TYR:CB	2:M:272:ALA:HB1	2.18	0.72
3:N:134:VAL:O	3:N:454:ALA:HB1	1.89	0.72
3:N:171:LEU:HD23	3:N:172:PRO:HD2	1.71	0.72
3:N:215:TYR:HB2	3:N:381:ALA:O	1.89	0.72
3:N:820:GLU:HG3	3:N:836:VAL:CG2	2.16	0.72
2:C:282:GLY:C	2:C:283:ILE:HG12	2.12	0.72
3:D:198:ARG:HH11	3:D:198:ARG:HG3	1.54	0.72
3:D:661:MET:O	3:D:664:LYS:O	2.07	0.72
3:D:1123:PHE:CE2	3:D:1184:GLN:HG3	2.24	0.72
2:H:480:THR:HG22	2:H:481:ASP:H	1.52	0.72
2:H:556:ASN:ND2	2:H:557:ARG:N	2.36	0.72
2:H:644:VAL:HG22	2:H:647:GLN:OE1	1.89	0.72
3:I:160:GLU:HG2	3:I:165:LYS:HB2	1.71	0.72
3:I:720:LEU:HD12	3:I:720:LEU:N	2.03	0.72
2:M:191:PHE:CZ	2:M:196:LEU:HB2	2.25	0.72
2:M:212:GLY:HA2	2:M:218:VAL:HG21	1.71	0.72
2:M:654:LEU:HD23	2:M:654:LEU:H	1.54	0.72
3:N:135:LEU:HD11	3:N:137:PRO:O	1.89	0.72
1:B:206:THR:HG23	1:B:208:LEU:N	2.04	0.72
3:D:728:LEU:HD12	3:D:729:HIS:N	2.03	0.72
3:D:861:GLN:NE2	3:D:861:GLN:H	1.87	0.72
1:F:20:TYR:HE2	1:F:198:ARG:HB2	1.52	0.72
3:I:1299:PHE:HD2	3:I:1299:PHE:N	1.87	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:132:LEU:HD23	1:L:136:GLY:O	1.90	0.72
1:L:179:PHE:H	1:L:179:PHE:HD2	1.35	0.72
2:M:374:ASN:ND2	2:M:376:ARG:HB2	2.04	0.72
3:N:661:MET:O	3:N:664:LYS:O	2.08	0.72
3:N:762:GLN:NE2	4:O:20:THR:HG21	2.04	0.72
3:N:1029:ARG:NH2	7:Z:41:ASP:OD2	2.22	0.72
1:B:197:LEU:O	1:B:197:LEU:HD23	1.89	0.72
2:C:110:GLU:HG3	2:C:369:PRO:CB	2.19	0.72
2:C:239:PHE:CZ	2:C:252:LYS:CA	2.66	0.72
3:D:984:THR:HG22	3:D:987:GLU:CD	2.15	0.72
3:D:1273:VAL:HG22	3:D:1326:THR:OG1	1.89	0.72
3:D:1352:ILE:HG21	3:D:1368:ILE:CD1	2.18	0.72
3:I:160:GLU:HA	3:I:165:LYS:HB2	1.70	0.72
3:I:919:PHE:HE1	3:I:924:MET:HG3	1.53	0.72
3:I:1465:ASN:HA	3:I:1468:LEU:CD1	2.20	0.72
2:M:25:SER:OG	2:M:335:THR:HB	1.89	0.72
2:M:160:ALA:HB3	2:M:174:LEU:HB2	1.70	0.72
2:M:165:LEU:HB3	2:M:265:ARG:HH12	1.52	0.72
3:N:353:VAL:HA	3:N:368:VAL:HG22	1.70	0.72
3:N:1112:CYS:SG	3:N:1195:GLN:HG2	2.29	0.72
3:N:1263:PHE:HB3	3:N:1424:VAL:HG11	1.69	0.72
1:B:59:GLU:OE2	1:B:139:ASN:HB3	1.90	0.72
3:D:675:ARG:O	3:D:678:GLU:HG2	1.88	0.72
2:H:1049:LEU:HD23	3:I:1472:ILE:CD1	2.19	0.72
2:H:1101:THR:HG21	2:H:1111:ILE:CG2	2.20	0.72
3:I:1129:THR:HG23	3:I:1130:ARG:N	2.04	0.72
3:N:62:LYS:HE2	3:N:62:LYS:HA	1.70	0.72
3:N:820:GLU:CG	3:N:836:VAL:HG21	2.18	0.72
3:N:970:LYS:HA	3:N:973:GLN:NE2	2.05	0.72
1:A:156:HIS:CD2	1:A:157:GLY:N	2.55	0.72
1:B:25:LEU:O	1:B:28:LEU:HD21	1.89	0.72
3:D:1189:ARG:HD2	3:D:1204:CYS:SG	2.29	0.72
1:G:58:ILE:HD13	1:G:140:MET:CB	2.20	0.72
3:I:800:LYS:CG	3:I:801:GLY:H	2.01	0.72
3:N:458:ALA:HB2	3:N:575:GLN:HE22	1.53	0.72
3:N:983:LEU:H	3:N:983:LEU:CD2	1.97	0.72
3:N:1263:PHE:CE2	3:N:1371:VAL:HG11	2.21	0.72
3:N:1266:ARG:O	3:N:1268:PRO:HD3	1.90	0.72
3:D:868:TYR:CE1	3:D:869:MET:HG3	2.24	0.72
3:D:1087:ARG:HG2	3:D:1234:THR:O	1.90	0.72
3:D:1093:TYR:HH	3:D:1097:LYS:HE3	1.47	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:108:VAL:CB	3:I:109:PRO:HD3	2.08	0.72
3:I:1037:GLN:HG2	3:I:1042:ARG:HB3	1.72	0.72
3:I:1042:ARG:O	3:I:1057:VAL:HB	1.90	0.72
1:L:75:VAL:O	1:L:79:ILE:HG23	1.89	0.72
2:M:905:ILE:HD12	2:M:905:ILE:H	1.54	0.72
3:N:152:LEU:O	3:N:152:LEU:HD12	1.89	0.72
3:N:583:ASP:OD2	3:N:604:THR:HG21	1.90	0.72
3:N:1253:THR:HG22	3:N:1261:GLU:OE2	1.89	0.72
3:N:1362:LYS:HD2	7:Z:34:GLN:HE22	1.54	0.72
2:C:1006:HIS:ND1	2:C:1027:PHE:CD1	2.57	0.72
3:D:804:LEU:CD1	3:D:830:ALA:O	2.36	0.72
4:E:51:LEU:C	4:E:53:GLY:H	1.98	0.72
2:H:73:LEU:C	2:H:73:LEU:HD12	2.15	0.72
2:H:627:ARG:O	2:H:638:ASP:HB3	1.89	0.72
3:I:480:GLU:O	3:I:484:PRO:HD2	1.90	0.72
1:K:206:THR:HG22	1:K:209:GLU:H	1.54	0.72
2:M:22:GLN:NE2	2:M:336:VAL:CG2	2.53	0.72
2:M:524:VAL:HG12	2:M:525:SER:N	2.05	0.72
2:M:879:ARG:HB2	2:M:881:ASN:HD21	1.54	0.72
3:N:141:ILE:HG22	3:N:162:ARG:HH11	1.51	0.72
3:N:988:ARG:O	3:N:992:ILE:HG13	1.90	0.72
3:N:1403:LEU:O	3:N:1407:LEU:HB2	1.90	0.72
2:C:1103:ASP:OD2	3:D:2:LYS:HA	1.90	0.72
3:D:656:PHE:HB3	3:D:694:VAL:HG11	1.72	0.72
3:D:982:PHE:N	3:D:982:PHE:HD2	1.88	0.72
3:D:1080:GLY:CA	7:X:49:GLU:HG3	2.20	0.72
1:G:86:VAL:HG12	1:G:124:ASN:HD22	1.53	0.72
2:H:172:ILE:HG13	2:H:186:VAL:HG12	1.72	0.72
2:H:408:ARG:HH21	2:H:455:LEU:HD11	1.55	0.72
2:H:436:GLY:HA2	2:H:538:GLN:O	1.90	0.72
2:H:893:ALA:HB1	2:H:897:LEU:CD1	2.19	0.72
2:H:1018:GLN:HA	2:H:1018:GLN:NE2	2.05	0.72
2:H:1034:GLU:HG3	2:H:1038:TRP:CZ2	2.25	0.72
3:I:1065:LEU:HD11	3:I:1069:GLU:HB3	1.71	0.72
3:I:1369:GLU:HA	3:I:1372:VAL:HG12	1.71	0.72
4:J:32:ARG:HB2	4:J:32:ARG:HH11	1.54	0.72
4:J:54:LEU:CD2	4:J:58:PRO:HG2	2.18	0.72
2:M:338:GLU:HA	2:M:341:THR:CG2	2.19	0.72
3:N:603:LEU:O	3:N:606:ILE:HG22	1.90	0.72
3:N:1105:ILE:N	3:N:1105:ILE:HD12	2.05	0.72
1:A:42:ARG:HH12	1:B:34:VAL:CB	1.93	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1027:PHE:CD2	2:C:1027:PHE:N	2.53	0.71
2:C:1043:TYR:HA	3:D:710:ARG:HH11	1.55	0.71
3:D:501:ALA:CB	3:D:1453:ALA:HB2	2.20	0.71
3:D:704:ARG:HD3	3:D:738:ALA:HB2	1.72	0.71
3:D:1128:VAL:O	3:D:1129:THR:CG2	2.37	0.71
3:D:1395:LEU:HD23	3:D:1395:LEU:C	2.14	0.71
1:G:95:GLN:HE21	1:G:95:GLN:H	1.38	0.71
3:I:133:ILE:O	3:I:152:LEU:CB	2.38	0.71
3:I:807:ALA:HA	3:I:833:GLU:CG	2.18	0.71
3:I:1433:SER:OG	3:I:1457:ASP:OD2	2.07	0.71
1:K:206:THR:CG2	1:K:209:GLU:H	2.02	0.71
3:N:8:VAL:HG23	3:N:1459:LEU:HD11	1.71	0.71
2:C:56:GLU:HB2	2:C:64:LEU:HD23	1.73	0.71
3:D:118:LEU:O	3:D:120:ALA:N	2.23	0.71
3:D:806:PHE:CZ	3:D:813:LEU:HB3	2.25	0.71
3:D:949:ILE:CD1	3:D:1023:MET:HE1	2.16	0.71
2:H:236:ILE:HD11	2:H:249:LYS:NZ	2.05	0.71
2:H:266:ARG:HA	2:H:288:ARG:CD	2.20	0.71
3:I:798:GLU:HG3	3:I:828:LYS:HE3	1.70	0.71
2:M:140:ILE:O	2:M:140:ILE:HD12	1.89	0.71
2:M:504:GLU:HG3	2:M:504:GLU:O	1.90	0.71
3:N:96:ALA:CB	3:N:554:LEU:HD23	2.20	0.71
7:X:84:GLY:HA2	7:X:130:LEU:HD11	1.72	0.71
7:Y:17:GLN:O	7:Y:21:ARG:HD3	1.90	0.71
7:Z:128:ALA:HB2	7:Z:140:LEU:HD21	1.71	0.71
2:C:874:LEU:O	3:D:1029:ARG:HD2	1.89	0.71
2:C:1032:PHE:O	2:C:1033:GLY:O	2.07	0.71
3:D:58:CYS:HB2	3:D:78:VAL:HB	1.70	0.71
1:F:72:LYS:HE3	2:H:641:PRO:O	1.90	0.71
1:G:185:ARG:HH22	3:I:692:GLU:HB3	1.55	0.71
2:H:352:ALA:HA	2:H:355:VAL:HG12	1.70	0.71
2:H:1020:PRO:HD2	3:I:622:ARG:HB2	1.72	0.71
3:I:139:GLY:O	3:I:147:VAL:HB	1.90	0.71
3:I:834:THR:HB	3:I:838:ARG:HD3	1.71	0.71
2:M:946:ARG:CD	2:M:984:GLU:HB2	2.21	0.71
3:N:638:LYS:N	3:N:641:GLN:OE1	2.22	0.71
3:N:642:CYS:SG	3:N:716:PHE:HB2	2.29	0.71
3:N:1000:THR:O	3:N:1003:VAL:HG12	1.90	0.71
3:N:1097:LYS:HA	3:N:1100:ASP:HB2	1.73	0.71
2:C:367:LEU:HB3	2:C:371:LYS:CE	2.20	0.71
2:C:1035:MET:HG2	3:D:707:THR:O	1.90	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:481:MET:HE3	3:D:493:ARG:HA	1.69	0.71
3:D:860:LEU:O	3:D:877:PRO:HD2	1.89	0.71
3:D:1211:MET:CG	3:D:1212:ALA:H	1.98	0.71
1:F:117:VAL:HB	1:F:120:VAL:HG13	1.71	0.71
2:H:137:VAL:O	2:H:391:LEU:HD21	1.90	0.71
2:H:630:ARG:HD3	2:H:705:ILE:HB	1.72	0.71
2:H:1004:LYS:HG2	3:I:630:VAL:HG23	1.71	0.71
2:H:1036:GLU:HG3	3:I:707:THR:OG1	1.89	0.71
3:I:661:MET:O	3:I:664:LYS:O	2.08	0.71
3:I:959:GLU:CD	3:I:959:GLU:H	1.95	0.71
2:M:726:ILE:HG12	2:M:734:LEU:HD11	1.72	0.71
2:M:863:ASP:CG	2:M:865:THR:HG22	2.13	0.71
3:N:127:LEU:CD2	3:N:134:VAL:HG21	2.20	0.71
3:N:1235:GLN:NE2	7:Z:37:MET:HG2	1.99	0.71
2:C:182:VAL:CG1	2:C:193:LEU:HD22	2.21	0.71
2:C:1056:LYS:HD3	3:D:623:VAL:CG1	2.20	0.71
2:C:1101:THR:C	2:C:1102:LEU:HD12	2.14	0.71
3:D:139:GLY:HA3	3:D:162:ARG:NH2	2.04	0.71
3:D:400:VAL:HG22	3:D:443:VAL:HG21	1.71	0.71
3:D:1094:LEU:HG	3:D:1098:LEU:CD2	2.21	0.71
3:D:1291:SER:HB2	3:D:1293:PHE:HE1	1.54	0.71
1:F:9:PRO:HD2	1:G:224:TYR:CD1	2.24	0.71
2:H:928:LYS:NZ	2:H:932:GLU:HG2	2.05	0.71
2:H:1032:PHE:O	2:H:1033:GLY:O	2.09	0.71
3:I:875:THR:HG22	3:I:876:SER:H	1.54	0.71
3:I:984:THR:HG22	3:I:987:GLU:CG	2.20	0.71
3:I:1047:LYS:HB3	3:I:1048:PRO:HD3	1.71	0.71
2:M:988:VAL:HG11	3:N:949:ILE:O	1.90	0.71
3:N:95:LEU:HD23	3:N:551:ASN:OD1	1.89	0.71
2:C:73:LEU:HB2	2:C:93:PRO:O	1.90	0.71
2:C:831:ARG:HH12	2:C:1002:GLU:HB2	1.54	0.71
2:C:1085:PHE:CD2	3:D:1468:LEU:HG	2.26	0.71
3:D:52:PRO:N	3:D:86:ARG:HD3	2.04	0.71
3:D:54:LYS:HD2	3:D:55:ASP:H	1.54	0.71
3:D:57:GLU:HB2	3:D:64:LYS:HG3	1.71	0.71
1:F:108:GLU:OE1	1:F:131:THR:HG22	1.91	0.71
2:H:191:PHE:CE2	2:H:195:LEU:HB3	2.26	0.71
2:H:281:LEU:HG	2:H:282:GLY:H	1.54	0.71
2:H:1061:GLU:OE2	3:I:84:ILE:CG2	2.39	0.71
2:H:1088:LEU:CD2	2:H:1092:LEU:HD12	2.20	0.71
1:K:39:PRO:O	1:K:43:ILE:HG12	1.90	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:184:THR:HG21	1:K:192:LEU:HD12	1.72	0.71
1:L:133:GLU:HG3	1:L:134:GLU:H	1.56	0.71
2:M:861:LEU:HB3	2:M:865:THR:HG23	1.71	0.71
3:N:154:THR:HG21	3:N:157:GLU:OE2	1.91	0.71
3:N:780:LYS:NZ	7:Z:38:GLU:OE1	2.23	0.71
3:D:96:ALA:HB3	3:D:554:LEU:HD23	1.72	0.71
3:D:355:VAL:HG11	3:D:385:VAL:HG21	1.73	0.71
3:D:421:LEU:HD22	3:D:444:VAL:HG11	1.73	0.71
3:D:907:GLU:HG2	3:D:908:LYS:N	2.05	0.71
2:H:134:ARG:HB3	2:H:393:GLN:O	1.90	0.71
2:H:500:ASN:N	2:H:500:ASN:ND2	2.36	0.71
4:J:51:LEU:C	4:J:53:GLY:H	1.98	0.71
1:K:54:THR:CG2	1:K:158:ILE:HG13	2.21	0.71
2:M:430:VAL:HG21	2:M:440:PRO:HB3	1.71	0.71
2:M:981:GLU:HG3	2:M:982:PRO:HD2	1.71	0.71
3:N:118:LEU:O	3:N:120:ALA:N	2.22	0.71
3:N:581:LEU:HD23	3:N:581:LEU:N	2.06	0.71
3:N:1223:ILE:HG22	3:N:1227:GLN:NE2	2.06	0.71
2:C:89:THR:O	2:C:91:GLN:HG3	1.91	0.71
1:F:46:SER:HB3	2:H:856:GLU:HG2	1.72	0.71
1:G:86:VAL:HG12	1:G:124:ASN:CB	2.17	0.71
2:H:211:LEU:HD21	2:H:221:LEU:CD2	2.21	0.71
2:H:565:GLN:HE21	2:H:842:ARG:HG2	1.54	0.71
3:I:1109:GLU:HG3	3:I:1217:ILE:HD12	1.71	0.71
1:K:14:ARG:HH22	1:K:24:VAL:CG2	2.03	0.71
2:M:976:ASP:HB3	2:M:979:THR:HG22	1.72	0.71
3:N:28:LYS:CD	3:N:29:PRO:HD2	2.17	0.71
3:N:141:ILE:H	3:N:162:ARG:HH12	1.38	0.71
3:N:465:LEU:HD13	3:N:510:GLU:HA	1.73	0.71
3:N:692:GLU:OE1	3:N:720:LEU:HD13	1.90	0.71
3:N:967:ALA:O	3:N:970:LYS:HB3	1.90	0.71
2:C:496:ILE:HD12	2:C:496:ILE:N	2.05	0.71
3:D:1093:TYR:CZ	3:D:1097:LYS:HE3	2.16	0.71
2:H:89:THR:O	2:H:91:GLN:HG3	1.89	0.71
2:H:958:THR:HG23	2:H:961:GLU:HG3	1.73	0.71
2:H:983:ILE:HD12	3:I:944:THR:HA	1.73	0.71
3:I:465:LEU:HD22	3:I:510:GLU:HA	1.73	0.71
2:M:139:GLN:HE22	2:M:415:PRO:CD	2.04	0.71
2:M:967:PHE:HD1	2:M:972:VAL:HG12	1.54	0.71
3:N:862:ASP:O	3:N:877:PRO:HD3	1.91	0.71
3:N:1098:LEU:CD2	3:N:1229:ILE:HB	2.21	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1099:VAL:O	3:N:1103:HIS:HB3	1.91	0.71
2:C:139:GLN:HE22	2:C:415:PRO:HD3	1.55	0.71
3:D:795:VAL:CG2	3:D:879:ARG:HH12	2.03	0.71
1:F:25:LEU:HD22	1:G:225:PHE:CE2	2.25	0.71
1:F:56:VAL:HG22	1:F:142:VAL:HG12	1.72	0.71
3:I:806:PHE:CZ	3:I:813:LEU:HB3	2.26	0.71
3:I:1003:VAL:O	3:I:1007:VAL:HG23	1.91	0.71
4:J:41:GLU:CD	4:J:42:PRO:HD3	2.16	0.71
1:L:87:VAL:HG21	1:L:144:VAL:HG11	1.73	0.71
2:M:1032:PHE:O	2:M:1033:GLY:O	2.08	0.71
1:B:54:THR:O	1:B:167:VAL:HG23	1.91	0.70
2:C:549:PHE:CD2	2:C:886:LEU:HB3	2.26	0.70
2:C:1014:SER:HB2	2:C:1021:LEU:HD13	1.73	0.70
3:D:1025:GLN:HA	3:D:1025:GLN:HE21	1.56	0.70
2:H:261:ILE:H	2:H:261:ILE:HD12	1.55	0.70
3:I:1225:ALA:O	3:I:1229:ILE:HG13	1.91	0.70
3:I:1299:PHE:N	3:I:1299:PHE:CD2	2.58	0.70
3:I:1472:ILE:O	3:I:1477:GLY:HA3	1.91	0.70
1:K:58:ILE:CD1	1:K:140:MET:HB3	2.17	0.70
3:N:139:GLY:O	3:N:162:ARG:NH2	2.24	0.70
3:N:654:LYS:HB3	3:N:655:PRO:HD3	1.72	0.70
3:N:701:LEU:HD12	3:N:701:LEU:N	2.06	0.70
2:C:218:VAL:HG23	2:C:311:PHE:HE1	1.57	0.70
2:C:555:ALA:HA	3:D:1070:TYR:OH	1.91	0.70
2:C:742:VAL:HG12	2:C:743:VAL:N	2.06	0.70
3:D:100:ALA:HB2	3:D:128:TYR:OH	1.91	0.70
3:D:438:ASP:CG	3:D:441:ARG:NH2	2.49	0.70
3:I:1093:TYR:O	3:I:1096:ARG:HB2	1.90	0.70
1:L:154:GLU:OE2	3:N:840:LYS:HE2	1.91	0.70
2:C:451:LEU:C	2:C:452:ILE:HD12	2.16	0.70
2:C:498:GLN:HA	2:C:498:GLN:HE21	1.54	0.70
1:G:206:THR:HG22	1:G:209:GLU:CD	2.16	0.70
2:H:697:ARG:HD2	2:H:699:PHE:CE1	2.26	0.70
2:H:836:GLY:CA	2:H:1001:VAL:HG21	2.21	0.70
3:I:167:GLU:OE2	3:I:169:TYR:HE1	1.74	0.70
3:I:817:GLU:O	3:I:821:VAL:HG23	1.91	0.70
1:K:64:GLU:O	1:K:75:VAL:HB	1.92	0.70
2:M:264:PRO:HB3	2:M:289:THR:CG2	2.21	0.70
2:M:854:PRO:HG2	2:M:857:ASP:OD2	1.91	0.70
2:M:937:ASP:O	2:M:941:VAL:HG23	1.90	0.70
3:N:875:THR:HG22	3:N:876:SER:N	2.05	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1292:VAL:HG23	3:N:1305:LEU:HG	1.71	0.70
1:B:26:GLU:HB2	1:B:27:PRO:HA	1.72	0.70
3:D:365:ASP:O	3:D:379:ALA:HB2	1.90	0.70
3:D:1045:MET:O	3:D:1053:PHE:HB2	1.91	0.70
3:D:1344:VAL:O	3:D:1348:LEU:HD13	1.90	0.70
2:H:6:PHE:HZ	2:H:901:TYR:HD2	1.38	0.70
2:H:1101:THR:C	2:H:1102:LEU:HD12	2.16	0.70
3:I:1026:SER:C	3:I:1028:ALA:H	1.99	0.70
3:I:1109:GLU:HG2	3:I:1202:GLN:H	1.57	0.70
2:M:6:PHE:CE1	2:M:901:TYR:HB3	2.26	0.70
2:M:200:LEU:HD13	2:M:300:ASP:OD1	1.91	0.70
7:Y:115:THR:CB	7:Y:116:PRO:HD3	2.20	0.70
7:Z:73:VAL:O	7:Z:74:ILE:HD13	1.90	0.70
2:C:21:ILE:H	2:C:21:ILE:CD1	2.04	0.70
2:C:52:PHE:CD2	2:C:68:PHE:HB2	2.26	0.70
2:C:290:LEU:HD23	2:C:290:LEU:H	1.55	0.70
2:C:374:ASN:ND2	2:C:374:ASN:O	2.24	0.70
3:D:149:LYS:H	3:D:149:LYS:CE	2.03	0.70
3:D:482:LYS:HE2	3:D:1388:ARG:NH2	2.06	0.70
2:H:498:GLN:HA	2:H:498:GLN:NE2	2.04	0.70
2:H:572:ILE:HG13	2:H:573:ARG:N	2.06	0.70
2:H:858:MET:CG	2:H:859:PRO:HD2	2.20	0.70
3:I:8:VAL:HG23	3:I:1459:LEU:HD11	1.72	0.70
3:I:679:ARG:HG2	3:I:681:ARG:HG3	1.73	0.70
1:K:38:ASN:HB3	1:K:39:PRO:HD3	1.73	0.70
2:M:110:GLU:HB2	2:M:368:THR:HG22	1.73	0.70
2:M:976:ASP:CB	2:M:979:THR:HG22	2.19	0.70
3:N:140:ALA:HB3	3:N:450:TYR:HE2	1.56	0.70
2:C:436:GLY:HA2	2:C:538:GLN:O	1.91	0.70
2:C:850:ALA:HA	3:D:632:VAL:CG1	2.22	0.70
3:D:1205:TYR:OH	3:D:1367:HIS:HE1	1.74	0.70
2:H:116:GLY:HA2	2:H:379:GLU:OE1	1.91	0.70
2:H:524:VAL:CG1	2:H:528:GLU:HB2	2.22	0.70
3:I:900:ILE:C	3:I:900:ILE:HD12	2.16	0.70
1:K:218:LEU:CD2	1:L:222:LEU:HD21	2.21	0.70
2:M:30:LEU:O	2:M:32:ALA:N	2.24	0.70
2:M:95:TYR:N	2:M:95:TYR:HD1	1.88	0.70
2:M:95:TYR:CD2	2:M:114:PHE:HB2	2.27	0.70
2:M:910:LYS:O	2:M:914:ILE:HG12	1.91	0.70
3:N:171:LEU:HB2	3:N:391:ALA:O	1.92	0.70
3:N:352:ASN:C	3:N:368:VAL:HG13	2.16	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1035:MET:HA	2:C:1038:TRP:CE3	2.26	0.70
3:D:367:ILE:HG22	3:D:368:VAL:HG23	1.72	0.70
3:D:1349:VAL:HA	3:D:1368:ILE:CG2	2.20	0.70
4:E:54:LEU:CD2	4:E:58:PRO:HG3	2.21	0.70
2:H:199:VAL:HG13	2:H:235:LEU:CD2	2.22	0.70
2:H:432:ARG:NH2	3:I:1047:LYS:HD3	2.07	0.70
2:H:556:ASN:HD22	2:H:557:ARG:N	1.89	0.70
2:M:462:ASP:HB3	2:M:468:ARG:HD2	1.73	0.70
3:N:1102:THR:CA	3:N:1105:ILE:HD13	2.22	0.70
7:Y:84:GLY:HA2	7:Y:130:LEU:CD1	2.21	0.70
2:C:39:ARG:H	2:C:39:ARG:HD2	1.56	0.70
2:C:144:PRO:CG	2:C:265:ARG:NH1	2.52	0.70
2:C:660:ALA:HB1	2:C:667:ALA:O	1.92	0.70
2:C:720:GLU:HA	2:C:759:THR:O	1.92	0.70
2:C:861:LEU:HG	2:C:862:PRO:CD	2.16	0.70
3:D:141:ILE:HD13	3:D:142:LEU:N	2.06	0.70
3:D:631:ILE:O	3:D:631:ILE:HD13	1.91	0.70
3:D:996:TRP:CD2	3:D:1056:PRO:HG2	2.26	0.70
2:H:383:ARG:HH11	2:H:383:ARG:CB	2.02	0.70
2:H:893:ALA:O	2:H:897:LEU:HG	1.92	0.70
2:M:134:ARG:HB3	2:M:393:GLN:O	1.91	0.70
2:M:165:LEU:O	2:M:265:ARG:HD2	1.91	0.70
3:N:101:HIS:ND1	3:N:103:TRP:HB2	2.06	0.70
2:C:1060:ILE:HG21	3:D:87:ARG:HH22	1.56	0.70
3:D:642:CYS:HB3	3:D:716:PHE:CB	2.21	0.70
3:D:706:PRO:HG3	6:Q:10:G:H22	1.57	0.70
2:H:207:LEU:CD2	2:H:211:LEU:HD23	2.22	0.70
2:H:236:ILE:HD11	2:H:249:LYS:HZ3	1.57	0.70
2:H:557:ARG:HG2	2:H:881:ASN:ND2	2.06	0.70
4:J:9:LEU:HB3	4:J:19:LEU:HD21	1.72	0.70
1:L:170:VAL:HG11	3:N:848:GLU:OE2	1.91	0.70
2:M:391:LEU:O	2:M:391:LEU:HD23	1.92	0.70
2:M:597:ALA:HA	2:M:655:LEU:HD11	1.74	0.70
3:N:1161:GLU:OE2	3:N:1164:ARG:HD2	1.92	0.70
3:N:1274:ILE:HD11	3:N:1334:GLN:HB3	1.73	0.70
2:C:98:LEU:HD11	2:C:113:VAL:HG23	1.74	0.70
2:C:344:PHE:CE2	2:C:378:LEU:HD21	2.25	0.70
3:D:157:GLU:O	3:D:161:LEU:N	2.23	0.70
3:D:481:MET:SD	3:D:1388:ARG:HG2	2.32	0.70
3:D:736:PHE:O	3:D:738:ALA:N	2.25	0.70
3:D:1468:LEU:HD22	3:D:1470:ARG:CB	2.19	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:185:ARG:HD2	1:G:185:ARG:C	2.16	0.70
2:H:25:SER:OG	2:H:335:THR:HB	1.92	0.70
2:H:675:ALA:HB2	2:H:867:VAL:HG11	1.73	0.70
3:I:153:LEU:CD1	3:I:158:TYR:HB2	2.21	0.70
1:L:81:ASN:ND2	1:L:128:HIS:O	2.24	0.70
2:M:683:ASN:HA	2:M:687:ALA:HB3	1.74	0.70
2:M:831:ARG:HH12	2:M:1002:GLU:CB	2.05	0.70
3:N:140:ALA:CB	3:N:450:TYR:HE2	2.05	0.70
3:N:526:PRO:C	3:N:537:THR:HA	2.16	0.70
3:N:664:LYS:O	3:N:666:ILE:N	2.25	0.70
3:N:908:LYS:CB	3:N:1027:GLY:HA3	2.15	0.70
4:O:73:LEU:H	4:O:73:LEU:HD12	1.54	0.70
1:A:132:LEU:HD23	1:A:136:GLY:O	1.92	0.69
2:C:497:ALA:HA	2:C:515:ALA:HA	1.74	0.69
1:F:9:PRO:HB2	1:G:224:TYR:HB3	1.73	0.69
1:G:44:LEU:HD23	1:G:48:ILE:HD11	1.72	0.69
2:H:9:ILE:HG13	2:H:9:ILE:O	1.91	0.69
2:H:516:ARG:CZ	3:I:1068:LEU:HD22	2.21	0.69
3:I:63:TYR:HB3	3:I:68:PHE:CE1	2.27	0.69
3:I:902:LEU:HD23	3:I:902:LEU:H	1.56	0.69
1:L:77:GLU:HB2	3:N:872:ARG:HH21	1.57	0.69
1:L:228:PRO:O	1:L:229:GLN:HG3	1.91	0.69
2:M:462:ASP:HB2	2:M:468:ARG:HH11	1.56	0.69
2:M:1034:GLU:HA	2:M:1037:VAL:HG23	1.74	0.69
3:N:98:PRO:HG2	3:N:462:GLN:HE22	1.53	0.69
3:N:127:LEU:HD12	3:N:127:LEU:C	2.17	0.69
3:N:792:ILE:O	3:N:878:GLY:HA3	1.90	0.69
2:C:274:ARG:HD2	2:C:285:LEU:CD2	2.22	0.69
2:C:754:ILE:HD12	2:C:754:ILE:N	2.07	0.69
2:H:958:THR:HG23	2:H:961:GLU:HG2	1.73	0.69
2:H:1101:THR:HG21	2:H:1111:ILE:HG21	1.74	0.69
3:I:89:ARG:O	3:I:521:PRO:HG3	1.92	0.69
3:I:465:LEU:HD11	3:I:512:MET:HB2	1.72	0.69
3:I:982:PHE:HB2	7:Y:125:MET:SD	2.32	0.69
1:L:161:ARG:HH11	1:L:161:ARG:HG3	1.56	0.69
3:D:785:ILE:HD12	3:D:785:ILE:N	1.98	0.69
3:D:957:PRO:CG	3:D:1007:VAL:HG22	2.21	0.69
1:G:81:ASN:ND2	1:G:128:HIS:O	2.25	0.69
2:H:200:LEU:CD2	2:H:298:PHE:HB2	2.22	0.69
3:I:159:ARG:NH2	2:M:212:GLY:O	2.23	0.69
3:I:688:TRP:HA	3:I:688:TRP:CE3	2.26	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:1080:GLY:CA	7:Y:49:GLU:HG3	2.22	0.69
1:K:213:GLN:O	1:K:217:ILE:HG12	1.91	0.69
2:M:368:THR:HB	2:M:369:PRO:CD	2.22	0.69
2:M:559:LEU:HD23	2:M:559:LEU:C	2.17	0.69
2:M:946:ARG:HB3	2:M:946:ARG:HH11	1.57	0.69
3:N:1399:ASP:O	3:N:1403:LEU:HB2	1.92	0.69
2:C:333:ILE:HG13	2:C:410:ILE:HD11	1.73	0.69
2:C:1027:PHE:N	2:C:1027:PHE:HD2	1.89	0.69
1:G:185:ARG:HH22	3:I:692:GLU:CB	2.05	0.69
2:H:30:LEU:O	2:H:32:ALA:N	2.26	0.69
2:H:791:ARG:O	2:H:793:PRO:HD3	1.91	0.69
3:I:810:GLU:O	3:I:813:LEU:HG	1.92	0.69
1:L:74:ASP:HB2	3:N:872:ARG:NH2	2.06	0.69
2:C:535:SER:O	2:C:538:GLN:HG2	1.91	0.69
2:C:799:ILE:HD13	2:C:799:ILE:N	2.06	0.69
2:C:876:VAL:N	2:C:877:PRO:HD2	2.07	0.69
3:D:192:ALA:HB1	3:D:193:PRO:HD2	1.73	0.69
3:D:664:LYS:O	3:D:666:ILE:N	2.25	0.69
3:D:1101:VAL:HG23	3:D:1102:THR:HG23	1.75	0.69
3:D:1311:LEU:N	3:D:1311:LEU:HD23	2.07	0.69
3:D:1492:LEU:O	3:D:1492:LEU:HD13	1.91	0.69
4:E:36:LYS:HA	4:E:36:LYS:HZ2	1.56	0.69
2:H:565:GLN:HG2	2:H:995:MET:HE1	1.73	0.69
3:I:87:ARG:HE	3:I:88:TYR:HE2	1.41	0.69
3:I:204:LEU:HB2	3:I:394:LEU:HG	1.74	0.69
3:I:664:LYS:O	3:I:666:ILE:N	2.25	0.69
3:I:804:LEU:HG	3:I:831:GLY:HA3	1.73	0.69
3:I:956:ILE:HG12	3:I:1039:CYS:O	1.93	0.69
3:I:1253:THR:HG23	3:I:1258:ARG:CD	2.21	0.69
1:L:86:VAL:HG12	1:L:124:ASN:CB	2.23	0.69
3:N:209:ARG:HB2	3:N:389:GLU:HB3	1.74	0.69
3:N:1216:SER:OG	4:O:16:LYS:HB2	1.92	0.69
1:A:58:ILE:CD1	1:A:140:MET:HB3	2.22	0.69
1:B:27:PRO:O	1:B:28:LEU:HD23	1.93	0.69
2:C:17:PRO:O	2:C:20:GLU:HB3	1.93	0.69
1:G:197:LEU:O	1:G:197:LEU:HD23	1.92	0.69
2:H:92:ALA:HB2	2:H:120:LEU:HD11	1.74	0.69
2:H:206:THR:HG23	2:H:207:LEU:N	2.07	0.69
3:I:868:TYR:CE1	3:I:869:MET:HG3	2.27	0.69
2:M:141:HIS:HB3	2:M:418:LEU:HD23	1.72	0.69
2:M:861:LEU:CG	2:M:862:PRO:HD2	2.22	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:979:THR:HG23	2:M:981:GLU:N	2.06	0.69
2:M:1013:TYR:CE2	2:M:1060:ILE:HD11	2.26	0.69
3:N:956:ILE:HG12	3:N:1039:CYS:O	1.93	0.69
1:B:80:LEU:HD21	3:D:867:ARG:HB2	1.72	0.69
2:C:54:ILE:CG2	2:C:66:LEU:HB3	2.23	0.69
2:C:124:ASP:HB2	2:C:407:LYS:NZ	2.08	0.69
2:C:172:ILE:H	2:C:172:ILE:HD12	1.56	0.69
2:C:486:MET:CE	2:C:491:GLU:HA	2.13	0.69
3:D:553:ARG:HH12	3:D:573:MET:HE1	1.56	0.69
3:D:702:LEU:O	3:D:713:ILE:HG23	1.93	0.69
3:D:1100:ASP:O	3:D:1103:HIS:ND1	2.25	0.69
4:E:18:ARG:HH21	4:E:18:ARG:CB	2.03	0.69
1:F:48:ILE:CG2	1:F:49:PRO:HD2	2.23	0.69
2:H:442:GLU:CG	2:H:454:SER:HB2	2.21	0.69
2:H:455:LEU:HD12	2:H:456:ALA:O	1.91	0.69
3:I:54:LYS:CD	3:I:55:ASP:H	2.06	0.69
3:I:154:THR:HG23	3:I:157:GLU:HB2	1.75	0.69
3:I:513:ILE:O	3:I:513:ILE:HD12	1.92	0.69
3:I:729:HIS:O	3:I:732:VAL:HG22	1.92	0.69
2:M:195:LEU:CD2	2:M:241:LEU:HD12	2.22	0.69
3:N:116:LEU:O	3:N:116:LEU:HD23	1.92	0.69
3:N:153:LEU:CD1	3:N:158:TYR:HB2	2.18	0.69
3:N:1286:THR:O	3:N:1287:GLU:HB2	1.93	0.69
2:C:54:ILE:HD11	2:C:355:VAL:HG13	1.75	0.69
2:C:183:SER:C	2:C:193:LEU:HD11	2.18	0.69
2:C:200:LEU:HD13	2:C:300:ASP:CG	2.18	0.69
2:C:395:LYS:HG2	2:C:397:GLU:HG3	1.75	0.69
2:C:418:LEU:H	2:C:418:LEU:HD12	1.58	0.69
2:C:432:ARG:HH22	3:D:1047:LYS:CD	2.06	0.69
3:D:817:GLU:HG3	3:D:839:LEU:HD23	1.74	0.69
3:D:957:PRO:HG2	3:D:1007:VAL:CG2	2.23	0.69
3:D:1153:VAL:HG12	3:D:1155:VAL:HG22	1.73	0.69
3:D:1219:GLU:OE1	4:E:17:TYR:OH	2.10	0.69
3:D:1364:HIS:CE1	3:D:1366:LYS:HG3	2.26	0.69
1:F:224:TYR:CE1	1:G:9:PRO:HD2	2.27	0.69
2:H:84:ARG:HE	2:H:128:ILE:CD1	2.05	0.69
2:H:238:LEU:O	2:H:241:LEU:HB3	1.93	0.69
2:H:354:GLY:O	2:H:358:ARG:HD3	1.92	0.69
2:H:418:LEU:H	2:H:418:LEU:CD1	2.05	0.69
2:H:688:ILE:CD1	2:H:847:GLY:HA3	2.22	0.69
2:H:831:ARG:HH12	2:H:1002:GLU:CB	2.04	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:950:LEU:HD12	2:H:952:LEU:CD2	2.22	0.69
3:I:127:LEU:HD12	3:I:128:TYR:N	2.07	0.69
3:I:982:PHE:CD2	7:Y:119:ILE:HG23	2.28	0.69
1:L:176:ARG:HG3	1:L:200:TRP:CE3	2.28	0.69
2:M:95:TYR:CE2	2:M:114:PHE:HB2	2.28	0.69
2:M:418:LEU:H	2:M:418:LEU:CD1	2.03	0.69
2:M:580:MET:HB3	2:M:584:GLU:CD	2.18	0.69
2:M:1014:SER:HB2	2:M:1021:LEU:HD13	1.75	0.69
3:N:1367:HIS:O	3:N:1371:VAL:HG23	1.93	0.69
2:C:184:MET:HE2	2:C:186:VAL:CG1	2.23	0.69
2:C:352:ALA:HA	2:C:355:VAL:HG12	1.73	0.69
2:C:1005:MET:HE1	3:D:724:GLN:CA	2.23	0.69
3:D:875:THR:HG22	3:D:876:SER:N	2.08	0.69
3:D:1197:ARG:HB3	3:D:1396:GLU:CD	2.18	0.69
2:H:831:ARG:NH1	2:H:1002:GLU:HB2	2.08	0.69
3:I:868:TYR:CD1	3:I:869:MET:HG3	2.28	0.69
3:I:1195:GLN:HG3	3:I:1196:THR:N	2.07	0.69
2:M:6:PHE:HZ	2:M:901:TYR:CD2	2.11	0.69
3:N:17:LYS:HG2	3:N:21:TRP:HE1	1.57	0.69
3:N:458:ALA:HB2	3:N:575:GLN:NE2	2.08	0.69
3:N:1153:VAL:HG12	3:N:1155:VAL:HG22	1.75	0.69
3:N:1234:THR:HB	3:N:1235:GLN:OE1	1.92	0.69
2:C:588:VAL:HG21	2:C:664:GLY:O	1.93	0.69
2:C:668:LEU:HD12	2:C:668:LEU:N	2.07	0.69
2:C:794:PRO:CD	2:C:1025:ALA:HA	2.22	0.69
3:D:967:ALA:O	3:D:970:LYS:HB3	1.93	0.69
3:D:1041:LEU:HD12	3:D:1058:ARG:C	2.18	0.69
3:D:1147:ARG:HB3	3:D:1188:VAL:CG2	2.23	0.69
1:F:54:THR:CG2	1:F:158:ILE:HG13	2.23	0.69
2:H:141:HIS:HB3	2:H:418:LEU:HD23	1.75	0.69
2:H:737:LEU:HD23	2:H:742:VAL:O	1.92	0.69
2:H:1105:LYS:HD2	2:H:1107:ASN:ND2	2.07	0.69
3:I:12:LEU:N	3:I:12:LEU:HD12	2.07	0.69
3:I:835:SER:H	3:I:838:ARG:CD	2.07	0.69
3:I:880:ILE:CG2	3:I:881:LEU:N	2.55	0.69
2:M:56:GLU:HB3	2:M:359:MET:SD	2.33	0.69
2:M:204:GLN:NE2	2:M:228:ALA:HB1	2.08	0.69
7:Z:64:SER:O	7:Z:68:ILE:HG12	1.92	0.69
1:A:102:LYS:HD3	1:A:139:ASN:HD21	1.58	0.68
2:C:304:LEU:HG	2:C:305:PRO:HD3	1.72	0.68
2:C:1027:PHE:HD2	2:C:1027:PHE:H	1.40	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1085:PHE:CD1	2:C:1111:ILE:HG21	2.28	0.68
3:D:25:GLU:HB2	3:D:92:HIS:CE1	2.27	0.68
3:D:153:LEU:CD1	3:D:158:TYR:HB2	2.22	0.68
3:D:1161:GLU:OE2	3:D:1164:ARG:HD2	1.93	0.68
1:G:128:HIS:NE2	1:G:131:THR:HG23	2.07	0.68
2:H:160:ALA:HB3	2:H:174:LEU:HB2	1.74	0.68
2:H:263:ASP:HB2	2:H:264:PRO:HD3	1.75	0.68
2:H:598:GLU:O	2:H:651:LYS:HG3	1.93	0.68
2:H:965:GLU:HA	2:H:968:LEU:HD12	1.75	0.68
3:I:785:ILE:HG22	3:I:789:LEU:HD11	1.73	0.68
3:I:1094:LEU:HD23	3:I:1230:GLY:HA2	1.75	0.68
2:M:113:VAL:O	2:M:115:LEU:CD2	2.41	0.68
2:M:1082:PRO:HB2	2:M:1084:SER:OG	1.93	0.68
3:N:50:PHE:CG	3:N:522:PRO:HD3	2.27	0.68
3:N:486:ARG:HA	3:N:489:ARG:HG2	1.75	0.68
3:N:827:ILE:C	3:N:828:LYS:HG3	2.17	0.68
4:O:80:VAL:HG13	4:O:81:PRO:HD2	1.75	0.68
1:A:88:ARG:O	1:A:120:VAL:HG23	1.91	0.68
2:C:834:GLN:NE2	3:D:724:GLN:HG3	1.97	0.68
3:D:52:PRO:C	3:D:86:ARG:HD3	2.18	0.68
3:D:834:THR:CB	3:D:838:ARG:HD3	2.21	0.68
4:E:36:LYS:HA	4:E:36:LYS:HZ3	1.57	0.68
2:H:412:ALA:O	2:H:419:THR:HG23	1.93	0.68
2:H:556:ASN:CG	7:Y:45:ASP:OD1	2.36	0.68
3:I:412:GLY:HA2	3:I:434:ARG:HD3	1.74	0.68
3:I:603:LEU:O	3:I:606:ILE:HG22	1.92	0.68
3:I:1018:ASN:HB3	3:I:1021:TYR:HB3	1.76	0.68
3:I:1161:GLU:HG2	3:I:1164:ARG:HB2	1.76	0.68
1:L:86:VAL:HG13	1:L:86:VAL:O	1.91	0.68
2:M:332:ARG:NH2	2:M:338:GLU:OE1	2.26	0.68
2:M:432:ARG:HH22	3:N:1047:LYS:HD3	1.56	0.68
3:N:783:ARG:HA	3:N:1028:ALA:HA	1.75	0.68
3:N:1261:GLU:OE1	3:N:1268:PRO:HA	1.93	0.68
2:C:77:PRO:HD2	2:C:91:GLN:O	1.92	0.68
2:C:794:PRO:HG2	2:C:1025:ALA:C	2.18	0.68
3:D:550:ARG:NE	3:D:573:MET:HE2	2.08	0.68
3:D:875:THR:HG22	3:D:876:SER:H	1.59	0.68
1:F:90:LEU:HD13	1:F:119:ASP:O	1.93	0.68
1:F:225:PHE:HE2	1:G:25:LEU:HD22	1.58	0.68
2:H:146:VAL:CG2	2:H:162:ILE:HG12	2.22	0.68
2:H:861:LEU:HG	2:H:862:PRO:HD2	1.75	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1030:GLN:CD	3:I:628:ARG:HD3	2.17	0.68
2:M:34:VAL:HB	2:M:38:LYS:HG3	1.75	0.68
2:M:142:ARG:HE	2:M:325:ILE:HD12	1.58	0.68
2:M:722:ILE:HG23	2:M:722:ILE:O	1.92	0.68
2:M:1046:ALA:CB	3:N:1476:THR:HB	2.24	0.68
3:N:982:PHE:CD2	7:Z:119:ILE:HD12	2.29	0.68
3:N:1149:LEU:HG	3:N:1166:LEU:CD2	2.23	0.68
3:N:1351:GLU:OE1	3:N:1351:GLU:HA	1.94	0.68
2:C:112:GLU:OE1	2:C:112:GLU:HA	1.92	0.68
3:D:636:GLN:HG2	3:D:637:LEU:N	2.08	0.68
3:D:1225:ALA:HB2	3:D:1370:ILE:HD12	1.76	0.68
1:G:94:LEU:HD11	1:G:119:ASP:HB2	1.76	0.68
2:H:140:ILE:O	2:H:140:ILE:HD12	1.93	0.68
2:H:587:VAL:HG11	2:H:666:LEU:HD22	1.76	0.68
3:I:603:LEU:HA	3:I:606:ILE:HG22	1.75	0.68
3:I:688:TRP:HA	3:I:688:TRP:HE3	1.59	0.68
3:I:1097:LYS:HA	3:I:1100:ASP:HB2	1.74	0.68
3:I:1216:SER:OG	4:J:16:LYS:N	2.25	0.68
3:N:957:PRO:CG	3:N:1007:VAL:HA	2.24	0.68
3:N:1026:SER:C	3:N:1028:ALA:H	2.00	0.68
3:N:1041:LEU:HB2	3:N:1059:SER:O	1.94	0.68
1:A:58:ILE:HG21	1:A:68:ILE:HD11	1.76	0.68
2:C:136:ILE:HG21	2:C:336:VAL:HG13	1.75	0.68
2:C:162:ILE:HB	2:C:172:ILE:HB	1.75	0.68
2:C:1043:TYR:CD2	3:D:710:ARG:HD2	2.29	0.68
2:C:1067:TYR:O	2:C:1071:ILE:HG12	1.94	0.68
3:D:143:ASN:HB3	3:D:161:LEU:CD2	2.23	0.68
3:D:907:GLU:O	3:D:911:LEU:HD12	1.93	0.68
3:D:982:PHE:N	3:D:982:PHE:CD2	2.61	0.68
3:D:1100:ASP:O	3:D:1103:HIS:CE1	2.47	0.68
2:H:235:LEU:O	2:H:239:PHE:CD2	2.47	0.68
2:H:310:LEU:O	2:H:314:THR:HG23	1.94	0.68
2:H:316:GLY:C	2:H:318:PRO:HD3	2.19	0.68
2:H:333:ILE:HD12	2:H:410:ILE:CD1	2.24	0.68
2:H:460:ARG:HH11	2:H:460:ARG:HG3	1.58	0.68
3:I:160:GLU:HG2	3:I:165:LYS:CB	2.23	0.68
3:I:623:VAL:HG12	3:I:624:ASP:O	1.94	0.68
1:K:66:SER:O	1:K:75:VAL:HG23	1.94	0.68
1:K:88:ARG:C	1:K:120:VAL:HG23	2.17	0.68
2:M:274:ARG:NH1	2:M:285:LEU:HD22	2.08	0.68
2:M:304:LEU:HD23	2:M:305:PRO:HD3	1.76	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:369:PRO:CG	2:M:370:ALA:H	1.95	0.68
3:N:774:SER:HB3	3:N:1362:LYS:O	1.94	0.68
3:N:963:TYR:CD2	3:N:1002:LYS:HD3	2.29	0.68
3:N:1345:GLU:O	3:N:1349:VAL:HG23	1.93	0.68
7:Y:35:GLU:OE1	7:Y:35:GLU:HA	1.94	0.68
1:A:54:THR:HG22	1:A:158:ILE:HD11	1.76	0.68
2:C:442:GLU:HG2	2:C:454:SER:OG	1.93	0.68
2:C:1105:LYS:HZ2	2:C:1107:ASN:HB2	1.56	0.68
3:D:51:GLY:C	3:D:86:ARG:NE	2.52	0.68
3:D:126:VAL:O	3:D:130:SER:HB3	1.92	0.68
3:D:387:LEU:HD12	3:D:387:LEU:N	2.08	0.68
1:G:197:LEU:CD2	1:G:199:ILE:HD11	2.24	0.68
2:H:676:ILE:CD1	2:H:871:LEU:HB2	2.23	0.68
3:I:139:GLY:HA3	3:I:162:ARG:NH2	2.09	0.68
3:I:785:ILE:HD13	3:I:935:LYS:HA	1.76	0.68
4:J:59:ASN:HD21	4:J:61:VAL:CG2	2.06	0.68
3:N:631:ILE:HD13	3:N:631:ILE:O	1.94	0.68
1:A:73:GLU:HB2	1:A:78:ILE:CD1	2.24	0.68
1:B:56:VAL:HG21	1:B:82:LEU:HD12	1.75	0.68
1:B:66:SER:OG	1:B:75:VAL:HG21	1.94	0.68
2:C:714:ASP:OD1	2:C:719:PRO:HG3	1.93	0.68
2:C:906:PHE:CE1	3:D:1067:VAL:HA	2.28	0.68
3:D:1111:ASP:OD1	3:D:1203:LYS:HD2	1.94	0.68
2:H:591:SER:O	2:H:592:LEU:HB2	1.93	0.68
3:I:794:GLN:OE1	3:I:795:VAL:N	2.22	0.68
3:I:900:ILE:HD12	3:I:901:GLN:N	2.09	0.68
3:I:970:LYS:O	3:I:974:ILE:HG12	1.94	0.68
3:I:988:ARG:O	3:I:992:ILE:HG13	1.94	0.68
4:J:41:GLU:OE2	4:J:42:PRO:HD3	1.93	0.68
2:M:879:ARG:CB	2:M:881:ASN:HD21	2.06	0.68
2:M:1092:LEU:HD21	3:N:1447:LEU:CD2	2.24	0.68
3:N:1031:ASN:ND2	7:Z:32:ILE:HG23	2.09	0.68
3:N:1084:THR:HG22	3:N:1087:ARG:NH2	2.09	0.68
1:A:18:ARG:O	1:A:207:PRO:HD3	1.93	0.68
2:C:305:PRO:HA	2:C:308:ARG:CB	2.21	0.68
2:C:578:VAL:CG2	2:C:579:VAL:HG12	2.17	0.68
2:C:1089:VAL:O	2:C:1093:GLN:HG2	1.94	0.68
3:D:28:LYS:CD	3:D:29:PRO:HD2	2.23	0.68
3:D:209:ARG:CB	3:D:389:GLU:HB3	2.22	0.68
3:D:782:SER:O	3:D:785:ILE:HD13	1.93	0.68
1:F:196:THR:HG1	2:H:934:PHE:HZ	1.35	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:44:LEU:HA	1:G:48:ILE:HD11	1.75	0.68
2:H:274:ARG:CG	2:H:285:LEU:HB3	2.23	0.68
2:H:368:THR:HB	2:H:369:PRO:CD	2.22	0.68
3:I:566:ILE:H	3:I:566:ILE:CD1	2.05	0.68
3:I:1093:TYR:HA	3:I:1096:ARG:HD2	1.74	0.68
2:M:182:VAL:O	2:M:193:LEU:HD13	1.93	0.68
2:M:1014:SER:HB3	2:M:1017:THR:O	1.94	0.68
3:N:119:SER:HB2	3:N:123:LEU:CB	2.20	0.68
3:N:1098:LEU:HD21	3:N:1229:ILE:CG2	2.23	0.68
7:Y:102:VAL:HG21	7:Y:125:MET:HE3	1.74	0.68
2:C:9:ILE:HG13	2:C:9:ILE:O	1.92	0.68
1:G:74:ASP:HB2	3:I:872:ARG:HH22	1.57	0.68
2:H:946:ARG:O	2:H:950:LEU:HB2	1.93	0.68
3:I:402:PRO:CA	3:I:443:VAL:HG23	2.23	0.68
2:M:496:ILE:N	2:M:496:ILE:HD12	2.08	0.68
2:M:1004:LYS:O	3:N:629:SER:HA	1.93	0.68
3:N:517:VAL:HG21	3:N:547:LEU:HD21	1.76	0.68
3:N:834:THR:HG22	3:N:838:ARG:HH11	1.58	0.68
3:N:1124:GLN:OE1	3:N:1135:ARG:HG2	1.92	0.68
3:N:1401:GLU:OE2	3:N:1415:VAL:HG21	1.94	0.68
2:C:286:SER:HB3	2:C:299:LYS:HE3	1.75	0.68
2:C:524:VAL:HG12	2:C:525:SER:N	2.07	0.68
2:C:657:ASP:HB3	2:C:661:SER:O	1.94	0.68
3:D:969:ARG:HG3	3:D:970:LYS:N	2.07	0.68
3:D:1029:ARG:NH2	7:X:41:ASP:OD2	2.27	0.68
2:H:679:PHE:H	2:H:683:ASN:HD21	1.39	0.68
2:H:695:LEU:HD21	2:H:832:LYS:HD3	1.75	0.68
3:I:25:GLU:HG3	3:I:92:HIS:O	1.93	0.68
3:I:1109:GLU:HG2	3:I:1201:CYS:CA	2.22	0.68
3:I:1283:ILE:HD12	3:I:1292:VAL:HG22	1.75	0.68
2:M:146:VAL:HG22	2:M:162:ILE:HG13	1.75	0.68
2:M:243:ARG:N	2:M:244:PRO:HD3	2.08	0.68
2:M:279:GLU:HG3	2:M:280:LYS:N	2.09	0.68
2:M:670:GLN:HG3	2:M:700:TYR:CE1	2.29	0.68
2:M:911:GLU:OE1	3:N:951:ILE:HD13	1.93	0.68
3:N:387:LEU:HD12	3:N:387:LEU:N	2.06	0.68
1:A:39:PRO:O	1:A:43:ILE:HG13	1.94	0.67
2:C:203:ASP:HB2	2:C:205:GLU:OE2	1.93	0.67
3:D:23:TYR:O	3:D:49:ILE:HG23	1.93	0.67
3:D:1087:ARG:CG	3:D:1234:THR:O	2.42	0.67
1:F:58:ILE:HB	1:F:61:VAL:HB	1.76	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:157:ARG:HD3	2:H:314:THR:HG22	1.74	0.67
2:H:165:LEU:CG	2:H:166:PRO:HA	2.20	0.67
3:I:135:LEU:HD21	3:I:137:PRO:O	1.94	0.67
3:I:957:PRO:HA	3:I:1010:ASN:ND2	2.10	0.67
3:I:1231:GLU:CB	3:I:1232:PRO:HD3	2.24	0.67
1:K:25:LEU:HD23	1:K:25:LEU:O	1.93	0.67
2:M:191:PHE:HB2	2:M:241:LEU:HD11	1.76	0.67
3:N:10:ILE:O	3:N:1454:GLY:HA2	1.94	0.67
3:N:127:LEU:CD2	3:N:134:VAL:CG2	2.72	0.67
3:N:145:VAL:HG22	3:N:146:PRO:HD2	1.76	0.67
3:N:704:ARG:HD3	3:N:738:ALA:HB2	1.75	0.67
3:N:737:ASN:OD1	7:Z:40:SER:HB3	1.94	0.67
7:X:6:LYS:HB2	7:X:6:LYS:HZ2	1.59	0.67
1:B:52:ALA:HB2	1:B:170:VAL:C	2.20	0.67
2:C:148:PHE:CE1	2:C:309:TYR:CD2	2.76	0.67
2:C:435:TYR:O	2:C:437:ARG:HD2	1.92	0.67
2:C:1067:TYR:CZ	2:C:1071:ILE:HD11	2.29	0.67
3:D:969:ARG:HG3	3:D:970:LYS:H	1.59	0.67
1:F:55:SER:HA	1:F:167:VAL:HG23	1.77	0.67
1:F:150:TYR:HE2	1:F:152:PRO:HG3	1.59	0.67
1:F:224:TYR:CD1	1:G:9:PRO:HD2	2.28	0.67
1:G:36:LEU:O	1:G:39:PRO:HD2	1.95	0.67
2:H:128:ILE:HG12	2:H:133:ASP:OD2	1.94	0.67
2:H:267:TYR:CG	2:H:272:ALA:HB1	2.29	0.67
2:H:347:GLY:HA3	2:H:378:LEU:CD1	2.23	0.67
2:H:404:LEU:HA	2:H:407:LYS:HD2	1.76	0.67
2:H:425:PHE:CZ	3:I:1079:LYS:CD	2.77	0.67
2:H:726:ILE:HD13	2:H:734:LEU:CD2	2.24	0.67
3:I:104:PHE:O	3:I:112:ILE:HG22	1.93	0.67
3:I:1459:LEU:HD23	3:I:1468:LEU:CD1	2.24	0.67
1:K:124:ASN:OD1	1:K:127:LEU:HB2	1.94	0.67
2:M:516:ARG:HG3	3:N:1068:LEU:CD1	2.23	0.67
2:M:549:PHE:CD2	2:M:886:LEU:HB3	2.29	0.67
2:M:754:ILE:HG12	2:M:791:ARG:NH1	2.09	0.67
2:M:1001:VAL:O	2:M:1001:VAL:HG12	1.94	0.67
3:N:179:VAL:HG22	3:N:183:GLU:OE2	1.94	0.67
3:N:646:LYS:HG3	3:N:647:ARG:N	2.08	0.67
3:N:682:ASP:OD1	3:N:682:ASP:N	2.26	0.67
2:C:30:LEU:O	2:C:32:ALA:N	2.28	0.67
2:C:418:LEU:HD12	2:C:418:LEU:N	2.09	0.67
2:C:1086:ARG:HD3	3:D:88:TYR:CE1	2.30	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1035:ILE:HA	3:D:1038:LEU:HD12	1.77	0.67
2:H:272:ALA:CA	2:H:464:LEU:HD21	2.22	0.67
3:I:10:ILE:HG22	3:I:10:ILE:O	1.95	0.67
3:I:163:TYR:CD1	2:M:209:ARG:NH2	2.63	0.67
3:I:679:ARG:CG	3:I:681:ARG:HG3	2.23	0.67
3:I:792:ILE:O	3:I:878:GLY:HA3	1.94	0.67
4:J:51:LEU:HG	4:J:53:GLY:H	1.59	0.67
2:M:13:ILE:HG13	2:M:13:ILE:O	1.94	0.67
2:M:207:LEU:HD23	2:M:207:LEU:C	2.19	0.67
2:M:401:LEU:HD13	2:M:587:VAL:HG11	1.76	0.67
2:M:1029:GLY:O	3:N:622:ARG:HB3	1.94	0.67
3:N:367:ILE:HG22	3:N:368:VAL:HG23	1.75	0.67
3:N:1018:ASN:O	3:N:1022:VAL:HG23	1.95	0.67
7:X:14:ARG:HB3	7:X:14:ARG:NH1	2.09	0.67
3:D:51:GLY:C	3:D:86:ARG:CD	2.67	0.67
3:D:142:LEU:HD22	3:D:145:VAL:CA	2.25	0.67
3:D:803:GLY:HA2	3:D:804:LEU:HD23	1.77	0.67
3:D:1093:TYR:CZ	3:D:1097:LYS:HG2	2.29	0.67
1:F:196:THR:OG1	2:H:934:PHE:CZ	2.47	0.67
1:G:59:GLU:CB	1:G:137:ARG:HH12	2.05	0.67
2:H:162:ILE:HD11	2:H:306:THR:HG21	1.75	0.67
2:H:666:LEU:HD12	2:H:667:ALA:N	2.10	0.67
3:I:565:ILE:HD11	2:M:219:GLN:HB3	1.76	0.67
3:I:633:VAL:HB	3:I:740:PHE:CE1	2.29	0.67
1:K:218:LEU:O	1:K:222:LEU:HD13	1.94	0.67
2:M:997:LEU:C	2:M:999:HIS:H	2.02	0.67
3:N:736:PHE:O	3:N:738:ALA:N	2.27	0.67
1:B:56:VAL:HG12	1:B:57:TYR:N	2.08	0.67
2:C:165:LEU:HB3	2:C:265:ARG:HH22	1.59	0.67
3:D:720:LEU:H	3:D:720:LEU:HD12	1.59	0.67
1:F:68:ILE:HD12	1:F:68:ILE:N	2.09	0.67
2:H:21:ILE:H	2:H:21:ILE:CD1	2.06	0.67
2:H:1071:ILE:O	3:I:659:LYS:HD3	1.95	0.67
3:I:397:LYS:O	3:I:448:GLU:HB2	1.95	0.67
3:I:501:ALA:HB1	3:I:1452:ILE:HG22	1.76	0.67
3:I:1394:VAL:HG21	3:I:1432:LYS:HD2	1.77	0.67
2:M:408:ARG:HH21	2:M:455:LEU:CD1	2.08	0.67
2:M:412:ALA:O	2:M:419:THR:HG23	1.93	0.67
2:M:430:VAL:O	3:N:1075:HIS:ND1	2.28	0.67
2:M:839:LEU:HD21	2:M:849:VAL:HG23	1.76	0.67
3:N:154:THR:HG23	3:N:157:GLU:HB2	1.75	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:356:PRO:CA	3:N:440:VAL:O	2.34	0.67
1:B:64:GLU:HB3	1:B:65:PHE:CE1	2.29	0.67
1:B:133:GLU:HG3	1:B:134:GLU:H	1.59	0.67
2:C:545:ASN:HB3	2:C:583:LEU:HD22	1.76	0.67
3:D:50:PHE:O	3:D:89:ARG:HD2	1.94	0.67
3:D:1197:ARG:HB3	3:D:1396:GLU:OE2	1.93	0.67
1:F:45:LEU:HD11	1:F:177:VAL:CG2	2.24	0.67
2:H:630:ARG:HD2	2:H:634:GLY:HA2	1.76	0.67
3:I:119:SER:HB2	3:I:123:LEU:N	2.07	0.67
3:I:907:GLU:HG2	3:I:908:LYS:N	2.08	0.67
3:I:1047:LYS:HG2	3:I:1053:PHE:CE1	2.30	0.67
1:K:182:GLU:HG2	1:K:183:ASP:N	2.09	0.67
2:M:6:PHE:HE1	2:M:901:TYR:HB3	1.60	0.67
3:N:641:GLN:O	3:N:716:PHE:HD2	1.78	0.67
3:N:881:LEU:O	3:N:885:ILE:HG13	1.94	0.67
3:N:957:PRO:HG2	3:N:1007:VAL:HG22	1.75	0.67
1:B:176:ARG:HG3	1:B:200:TRP:CE3	2.29	0.67
2:C:456:ALA:HB3	2:C:459:ALA:HB2	1.76	0.67
2:C:572:ILE:CD1	2:C:573:ARG:H	2.05	0.67
3:D:376:GLU:O	3:D:378:ILE:HG13	1.93	0.67
3:D:810:GLU:C	3:D:812:ALA:H	2.01	0.67
3:D:838:ARG:HB3	3:D:865:THR:HG23	1.77	0.67
3:D:890:VAL:HG11	3:D:922:LEU:CD1	2.22	0.67
1:F:46:SER:HB3	2:H:856:GLU:CG	2.25	0.67
2:H:367:LEU:HB3	2:H:371:LYS:CE	2.24	0.67
2:H:927:GLY:HA2	2:H:930:LYS:HD2	1.77	0.67
3:I:109:PRO:HB3	3:I:494:LYS:HZ3	1.59	0.67
3:I:795:VAL:HG23	3:I:879:ARG:NH1	2.07	0.67
3:I:838:ARG:HB3	3:I:865:THR:CG2	2.24	0.67
3:I:1459:LEU:HD22	3:I:1470:ARG:NH2	2.08	0.67
3:I:1493:LYS:O	3:I:1497:GLU:HG2	1.95	0.67
1:K:56:VAL:HG12	1:K:57:TYR:N	2.10	0.67
2:M:383:ARG:HB2	2:M:383:ARG:HH11	1.59	0.67
2:M:610:ARG:HH11	2:M:610:ARG:HG3	1.59	0.67
2:M:759:THR:HB	2:M:785:VAL:CG2	2.25	0.67
3:N:210:ARG:HB2	3:N:389:GLU:CG	2.25	0.67
3:N:471:GLU:O	3:N:475:LYS:HG3	1.94	0.67
3:N:864:VAL:CG1	3:N:865:THR:H	2.03	0.67
1:A:88:ARG:NH1	1:A:90:LEU:HD11	2.10	0.67
1:B:56:VAL:HG11	1:B:140:MET:HE3	1.76	0.67
2:C:447:ALA:HA	3:D:1085:ALA:HB1	1.76	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:704:ARG:CB	3:D:736:PHE:HB3	2.25	0.67
3:D:845:ASN:H	3:D:848:GLU:HG3	1.60	0.67
3:D:996:TRP:HA	3:D:999:THR:HG22	1.76	0.67
1:G:58:ILE:HB	1:G:61:VAL:HB	1.77	0.67
3:I:1051:GLU:HG3	3:I:1051:GLU:O	1.95	0.67
1:L:123:MET:O	1:L:125:PRO:HD3	1.94	0.67
2:M:1101:THR:C	2:M:1102:LEU:HD12	2.18	0.67
3:N:897:TRP:HA	3:N:900:ILE:CD1	2.25	0.67
1:A:158:ILE:HD12	1:A:158:ILE:N	2.06	0.67
2:C:191:PHE:HB2	2:C:241:LEU:HD11	1.77	0.67
3:D:171:LEU:CD2	3:D:172:PRO:HD2	2.25	0.67
3:D:477:LEU:HD22	3:D:492:ALA:HB1	1.75	0.67
2:H:185:LYS:CG	2:H:190:LYS:HG2	2.25	0.67
2:H:285:LEU:HD23	2:H:285:LEU:O	1.95	0.67
3:I:498:VAL:HG13	3:I:1452:ILE:HD12	1.77	0.67
1:L:61:VAL:HG22	1:L:68:ILE:HD11	1.76	0.67
2:M:113:VAL:O	2:M:113:VAL:HG23	1.95	0.67
2:M:352:ALA:HA	2:M:355:VAL:CG1	2.25	0.67
2:M:432:ARG:HH22	3:N:1047:LYS:CD	2.07	0.67
2:M:950:LEU:HD12	2:M:952:LEU:CD2	2.25	0.67
3:N:17:LYS:HG2	3:N:21:TRP:NE1	2.10	0.67
3:N:134:VAL:HG12	3:N:135:LEU:N	2.09	0.67
3:N:759:ALA:HA	3:N:763:MET:HE2	1.77	0.67
3:N:1045:MET:O	3:N:1053:PHE:HB2	1.95	0.67
3:N:1149:LEU:HG	3:N:1166:LEU:HD22	1.77	0.67
3:N:1223:ILE:HG22	3:N:1227:GLN:HE21	1.58	0.67
3:N:1231:GLU:HB3	3:N:1232:PRO:HD3	1.77	0.67
3:N:1285:GLU:O	3:N:1286:THR:CB	2.42	0.67
1:B:73:GLU:OE1	1:B:130:ALA:HA	1.95	0.67
2:C:602:GLU:HG3	2:C:603:VAL:N	2.10	0.67
3:D:720:LEU:HD12	3:D:720:LEU:N	2.09	0.67
2:H:266:ARG:HA	2:H:288:ARG:HD3	1.77	0.67
1:K:68:ILE:HD12	1:K:68:ILE:N	2.10	0.67
2:M:886:LEU:HD11	3:N:951:ILE:HD12	1.76	0.67
2:C:160:ALA:HB3	2:C:174:LEU:HB2	1.78	0.66
2:C:281:LEU:CD1	2:C:306:THR:HA	2.24	0.66
2:C:683:ASN:HA	2:C:687:ALA:HB3	1.77	0.66
3:I:138:LYS:HG2	3:I:450:TYR:OH	1.94	0.66
2:M:447:ALA:O	2:M:448:ASN:HB2	1.95	0.66
2:M:508:ILE:HD13	2:M:508:ILE:N	2.10	0.66
2:M:630:ARG:HD3	2:M:705:ILE:HB	1.75	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:178:LEU:HD12	3:N:190:GLU:O	1.94	0.66
3:N:1129:THR:HG23	3:N:1130:ARG:N	2.10	0.66
1:A:83:LYS:NZ	2:C:698:ASP:OD2	2.27	0.66
1:A:128:HIS:HE1	1:A:131:THR:HG23	1.59	0.66
1:B:56:VAL:HG22	1:B:142:VAL:HG12	1.77	0.66
2:C:202:TYR:OH	2:C:304:LEU:HD22	1.95	0.66
2:C:854:PRO:HB2	2:C:856:GLU:CG	2.23	0.66
2:C:1030:GLN:CD	3:D:628:ARG:HD3	2.20	0.66
2:C:1088:LEU:HD23	2:C:1092:LEU:HD12	1.77	0.66
3:D:102:ILE:HB	3:D:579:ASP:OD1	1.94	0.66
3:D:127:LEU:HD12	3:D:127:LEU:C	2.20	0.66
3:D:728:LEU:HD12	3:D:729:HIS:H	1.60	0.66
3:D:1066:THR:HG23	3:D:1069:GLU:H	1.59	0.66
2:H:157:ARG:HG3	2:H:158:TYR:H	1.60	0.66
2:H:281:LEU:CD1	2:H:306:THR:HA	2.25	0.66
2:H:496:ILE:HD12	2:H:496:ILE:N	2.10	0.66
2:H:631:SER:CB	2:H:637:LEU:HD11	2.24	0.66
2:M:1030:GLN:CD	3:N:628:ARG:HD3	2.21	0.66
3:N:133:ILE:HG22	3:N:134:VAL:N	2.09	0.66
3:N:957:PRO:HG2	3:N:1007:VAL:HA	1.77	0.66
3:N:1209:LEU:HD21	4:O:16:LYS:NZ	2.10	0.66
3:N:1472:ILE:O	3:N:1477:GLY:HA3	1.95	0.66
4:O:46:PRO:HB2	4:O:54:LEU:HD22	1.76	0.66
1:A:176:ARG:HG3	1:A:200:TRP:CE3	2.29	0.66
2:C:36:PRO:HG2	2:C:70:GLU:HG2	1.77	0.66
3:D:792:ILE:CD1	3:D:881:LEU:HD23	2.25	0.66
3:D:860:LEU:HD23	3:D:877:PRO:HB2	1.77	0.66
1:F:20:TYR:OH	1:F:198:ARG:HD3	1.95	0.66
1:F:122:ILE:N	1:F:122:ILE:HD12	2.10	0.66
1:G:56:VAL:HG21	1:G:82:LEU:HD12	1.75	0.66
3:I:566:ILE:N	3:I:566:ILE:CD1	2.58	0.66
3:I:1197:ARG:HB3	3:I:1396:GLU:CG	2.25	0.66
2:M:106:GLY:O	2:M:107:LEU:HD23	1.95	0.66
3:N:767:HIS:CE1	4:O:6:ILE:HD12	2.31	0.66
2:C:831:ARG:NH1	2:C:1002:GLU:HB2	2.10	0.66
3:D:762:GLN:HE21	4:E:20:THR:CG2	2.08	0.66
3:D:996:TRP:CE3	3:D:999:THR:HG21	2.30	0.66
3:D:1057:VAL:HG13	3:D:1069:GLU:HG2	1.75	0.66
3:D:1472:ILE:O	3:D:1477:GLY:HA3	1.95	0.66
1:F:206:THR:HG22	1:F:209:GLU:H	1.58	0.66
2:H:157:ARG:HG3	2:H:158:TYR:N	2.08	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:165:LEU:HG	2:H:166:PRO:CA	2.21	0.66
3:I:1147:ARG:HB3	3:I:1188:VAL:CG2	2.22	0.66
3:I:1482:ARG:HH21	3:I:1483:PHE:HZ	1.44	0.66
2:M:92:ALA:HB2	2:M:120:LEU:HD11	1.78	0.66
2:M:368:THR:O	2:M:372:LEU:HD22	1.95	0.66
2:M:516:ARG:HE	3:N:1068:LEU:HD13	1.61	0.66
2:M:859:PRO:O	2:M:867:VAL:HG22	1.94	0.66
2:M:1096:ALA:H	3:N:101:HIS:HE2	1.41	0.66
3:N:1263:PHE:O	3:N:1424:VAL:HG12	1.96	0.66
2:C:260:LEU:O	2:C:260:LEU:HD23	1.95	0.66
2:C:1046:ALA:CA	3:D:1472:ILE:HD11	2.25	0.66
3:D:158:TYR:CE1	3:D:452:ILE:HD11	2.29	0.66
3:D:171:LEU:HD23	3:D:172:PRO:HD2	1.77	0.66
3:D:1403:LEU:O	3:D:1407:LEU:HB2	1.95	0.66
2:M:115:LEU:HD12	2:M:378:LEU:CD2	2.25	0.66
2:M:327:HIS:HE1	2:M:489:THR:HA	1.61	0.66
2:M:497:ALA:HA	2:M:515:ALA:HA	1.77	0.66
2:M:744:ARG:HG3	2:M:747:ALA:HB2	1.78	0.66
1:B:101:LEU:HD23	1:B:101:LEU:C	2.21	0.66
2:C:676:ILE:O	3:D:948:THR:HB	1.95	0.66
2:C:863:ASP:C	2:C:863:ASP:OD2	2.39	0.66
3:D:409:VAL:HG11	3:D:413:ASP:HB3	1.77	0.66
3:D:982:PHE:HB2	3:D:983:LEU:HD23	1.77	0.66
2:H:212:GLY:CA	2:H:218:VAL:HG21	2.26	0.66
2:H:1030:GLN:HE22	3:I:628:ARG:HD3	1.60	0.66
3:I:2:LYS:O	3:I:2:LYS:HG2	1.94	0.66
3:I:811:GLU:O	3:I:815:ALA:HB3	1.96	0.66
3:I:992:ILE:O	3:I:995:LEU:HB3	1.96	0.66
3:N:58:CYS:HB2	3:N:78:VAL:HB	1.78	0.66
3:N:705:ALA:HB3	3:N:706:PRO:CD	2.20	0.66
3:N:1197:ARG:HB3	3:N:1396:GLU:OE2	1.94	0.66
2:C:54:ILE:HG22	2:C:66:LEU:HB3	1.78	0.66
2:C:84:ARG:HG3	2:C:84:ARG:NH1	2.10	0.66
2:C:553:ASP:OD1	2:C:843:HIS:ND1	2.29	0.66
2:C:717:LEU:HB3	2:C:761:PHE:CD2	2.30	0.66
2:C:943:VAL:CG2	2:C:985:GLY:H	2.08	0.66
2:C:1093:GLN:HB3	3:D:21:TRP:CZ3	2.30	0.66
3:D:1107:VAL:O	3:D:1107:VAL:HG12	1.95	0.66
2:H:676:ILE:HG21	2:H:988:VAL:HG13	1.76	0.66
3:I:1132:LEU:N	3:I:1132:LEU:CD1	2.57	0.66
1:L:41:ARG:HH11	1:L:177:VAL:CG2	2.08	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:206:THR:HG22	1:L:209:GLU:HG3	1.78	0.66
2:M:681:GLY:C	3:N:635:PRO:HG3	2.21	0.66
2:M:863:ASP:OD1	2:M:865:THR:HG22	1.95	0.66
3:N:127:LEU:HD23	3:N:134:VAL:CG2	2.25	0.66
3:N:704:ARG:HH12	3:N:743:ASP:CB	2.07	0.66
3:D:606:ILE:O	3:D:613:ARG:HG2	1.95	0.66
3:D:692:GLU:OE1	3:D:720:LEU:HD13	1.95	0.66
3:D:957:PRO:HG2	3:D:1007:VAL:HA	1.77	0.66
2:H:193:LEU:N	2:H:193:LEU:CD1	2.58	0.66
2:H:292:ARG:HG3	2:H:294:GLU:CG	2.25	0.66
3:I:119:SER:HB2	3:I:123:LEU:CB	2.24	0.66
3:I:1132:LEU:N	3:I:1132:LEU:HD12	2.11	0.66
2:M:17:PRO:O	2:M:20:GLU:HB3	1.96	0.66
2:M:292:ARG:HD2	2:M:299:LYS:HE2	1.77	0.66
2:M:660:ALA:HB1	2:M:667:ALA:O	1.96	0.66
3:N:761:ILE:CD1	4:O:20:THR:HA	2.26	0.66
3:N:1109:GLU:OE1	3:N:1201:CYS:HB2	1.96	0.66
7:Y:134:VAL:HG23	7:Y:154:ILE:HD12	1.76	0.66
1:A:161:ARG:HB2	1:A:161:ARG:CZ	2.24	0.66
1:B:20:TYR:CD2	1:B:21:GLY:N	2.64	0.66
1:B:76:VAL:HB	3:D:872:ARG:NH1	2.10	0.66
2:C:958:THR:CG2	2:C:961:GLU:HG3	2.20	0.66
3:D:180:LYS:HZ1	3:D:386:HIS:HA	1.61	0.66
3:D:770:LEU:HB2	3:D:1210:SER:O	1.96	0.66
3:D:827:ILE:C	3:D:828:LYS:HG3	2.20	0.66
3:D:1207:TYR:CD1	3:D:1212:ALA:O	2.48	0.66
1:G:179:PHE:H	1:G:179:PHE:HD2	1.43	0.66
2:H:253:ALA:O	2:H:257:VAL:HG23	1.96	0.66
2:H:668:LEU:HD12	2:H:668:LEU:N	2.10	0.66
2:H:984:GLU:HG2	3:I:944:THR:O	1.96	0.66
3:I:736:PHE:O	3:I:738:ALA:N	2.29	0.66
3:I:804:LEU:HD23	3:I:831:GLY:N	2.11	0.66
2:M:52:PHE:HZ	2:M:98:LEU:HB3	1.59	0.66
2:M:267:TYR:CG	2:M:272:ALA:HB1	2.31	0.66
2:M:437:ARG:NH2	2:M:488:ALA:HA	2.11	0.66
2:M:718:GLY:HA3	2:M:761:PHE:CE1	2.31	0.66
2:M:862:PRO:CB	2:M:929:ARG:HH22	2.09	0.66
3:N:623:VAL:HG12	3:N:624:ASP:O	1.95	0.66
7:X:111:ASN:OD1	7:X:113:LEU:HB2	1.95	0.66
2:C:585:GLU:O	2:C:588:VAL:HG22	1.94	0.66
3:D:176:ASP:HA	3:D:389:GLU:HA	1.78	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:957:PRO:CG	3:D:1007:VAL:HA	2.25	0.66
3:D:1042:ARG:O	3:D:1057:VAL:HB	1.95	0.66
3:D:1106:VAL:CG1	3:D:1107:VAL:H	2.06	0.66
3:D:1109:GLU:OE1	3:D:1201:CYS:HB2	1.96	0.66
1:F:100:LEU:CD2	1:F:141:GLU:HG3	2.26	0.66
2:H:690:ILE:CD1	2:H:833:LEU:HD23	2.25	0.66
3:I:50:PHE:CG	3:I:522:PRO:HD3	2.30	0.66
3:I:1379:VAL:CG1	3:I:1419:PRO:HA	2.19	0.66
2:M:64:LEU:CD2	2:M:359:MET:HG3	2.21	0.66
2:M:893:ALA:HB2	2:M:918:LEU:HD12	1.77	0.66
3:N:1094:LEU:HD12	3:N:1098:LEU:HD13	1.78	0.66
3:N:1123:PHE:HE2	3:N:1184:GLN:HA	1.61	0.66
7:X:45:ASP:C	7:X:47:GLY:H	2.04	0.66
7:Z:73:VAL:C	7:Z:74:ILE:HD13	2.21	0.66
2:C:75:GLU:OE1	2:C:75:GLU:HA	1.95	0.65
2:C:124:ASP:HB2	2:C:407:LYS:HZ1	1.60	0.65
2:C:172:ILE:HD12	2:C:172:ILE:N	2.11	0.65
2:C:572:ILE:HG13	2:C:701:THR:O	1.97	0.65
2:H:115:LEU:HD21	2:H:351:LEU:CD2	2.26	0.65
2:H:122:THR:HG22	2:H:123:GLU:N	2.11	0.65
2:H:253:ALA:HA	2:H:256:TYR:HB2	1.79	0.65
2:H:679:PHE:N	2:H:683:ASN:HD21	1.94	0.65
3:I:127:LEU:HD12	3:I:127:LEU:C	2.21	0.65
3:I:660:LYS:HD2	3:I:694:VAL:HG22	1.78	0.65
3:I:737:ASN:HD22	7:Y:40:SER:HB3	1.61	0.65
1:L:206:THR:HG23	1:L:208:LEU:N	2.11	0.65
2:M:1046:ALA:HB3	3:N:1476:THR:HB	1.77	0.65
3:N:678:GLU:HG3	3:N:679:ARG:HG3	1.78	0.65
3:N:1372:VAL:HA	3:N:1375:MET:HE2	1.78	0.65
7:X:115:THR:HB	7:X:116:PRO:HD3	1.78	0.65
7:Z:114:ASP:OD2	7:Z:118:LYS:HE3	1.96	0.65
2:C:250:ARG:HA	2:C:250:ARG:HH11	1.61	0.65
2:C:1081:VAL:CG2	2:C:1111:ILE:HG22	2.09	0.65
3:D:180:LYS:HZ1	3:D:387:LEU:N	1.94	0.65
3:D:711:LEU:HD22	3:D:714:GLN:HE21	1.60	0.65
2:H:290:LEU:HD23	2:H:290:LEU:H	1.60	0.65
2:H:1005:MET:O	2:H:1005:MET:HG2	1.95	0.65
3:I:116:LEU:HD22	3:I:118:LEU:HD11	1.77	0.65
3:I:1007:VAL:HG12	3:I:1011:PHE:HE2	1.61	0.65
3:I:1265:ALA:HB1	3:I:1333:HIS:CE1	2.31	0.65
3:I:1348:LEU:HD23	3:I:1372:VAL:CG2	2.26	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:54:THR:O	1:L:167:VAL:HG23	1.96	0.65
3:N:161:LEU:HG	3:N:397:LYS:NZ	2.11	0.65
3:N:982:PHE:HE1	7:Z:117:MET:HG2	1.61	0.65
1:A:58:ILE:HG21	1:A:68:ILE:CD1	2.27	0.65
2:C:191:PHE:HZ	2:C:196:LEU:HD12	1.61	0.65
2:C:838:LYS:HZ2	2:C:846:LYS:HZ1	1.44	0.65
3:D:812:ALA:HB1	3:D:816:HIS:CD2	2.31	0.65
3:D:1209:LEU:HD23	3:D:1211:MET:H	1.61	0.65
3:D:1438:ALA:O	3:D:1443:THR:HG22	1.96	0.65
1:G:52:ALA:HB2	1:G:170:VAL:C	2.21	0.65
1:G:84:GLU:CG	1:G:127:LEU:HD21	2.25	0.65
2:H:110:GLU:HG3	2:H:369:PRO:HB3	1.79	0.65
2:H:291:ALA:O	2:H:292:ARG:HD3	1.96	0.65
2:H:497:ALA:HA	2:H:515:ALA:HA	1.77	0.65
3:I:87:ARG:HB2	3:I:524:LEU:CD1	2.26	0.65
3:I:204:LEU:N	3:I:394:LEU:O	2.29	0.65
3:I:520:LEU:HD11	3:I:524:LEU:HD22	1.78	0.65
3:I:880:ILE:HG22	3:I:881:LEU:N	2.10	0.65
3:I:1106:VAL:CG1	3:I:1107:VAL:H	2.05	0.65
2:M:189:ARG:HH12	2:M:190:LYS:HD2	1.61	0.65
3:N:136:ASP:HB3	3:N:453:ASP:O	1.96	0.65
3:N:493:ARG:HG3	3:N:494:LYS:H	1.61	0.65
3:N:853:VAL:HG22	3:N:858:VAL:HG23	1.78	0.65
3:N:1109:GLU:HG2	3:N:1202:GLN:H	1.61	0.65
2:C:224:GLU:HB2	2:C:228:ALA:HB2	1.78	0.65
2:C:227:PHE:HE2	2:C:237:ARG:HE	1.45	0.65
2:C:284:ARG:HG2	2:C:285:LEU:N	2.10	0.65
2:C:679:PHE:O	2:C:680:ASP:C	2.39	0.65
1:G:56:VAL:HB	1:G:165:ILE:HD11	1.78	0.65
1:G:202:ASP:OD1	1:G:203:GLY:N	2.29	0.65
3:I:179:VAL:HG21	3:I:189:GLN:HE22	1.60	0.65
3:I:908:LYS:CB	3:I:1027:GLY:HA3	2.23	0.65
4:J:16:LYS:HG2	4:J:17:TYR:CD1	2.31	0.65
2:M:870:ILE:HD13	2:M:870:ILE:N	2.11	0.65
2:M:1067:TYR:O	2:M:1071:ILE:HG13	1.96	0.65
3:N:925:GLU:OE1	4:O:6:ILE:HG22	1.96	0.65
3:N:1367:HIS:HA	3:N:1370:ILE:HD12	1.79	0.65
7:X:58:ILE:HG22	7:X:59:GLU:N	2.10	0.65
2:C:50:GLU:HG2	2:C:51:THR:HG23	1.78	0.65
3:D:128:TYR:CE2	3:D:458:ALA:HA	2.27	0.65
3:D:1086:LEU:HD12	3:D:1086:LEU:N	2.11	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:84:GLU:HG2	1:G:127:LEU:HD21	1.77	0.65
2:H:41:ASN:O	2:H:41:ASN:OD1	2.14	0.65
2:H:239:PHE:CZ	2:H:252:LYS:HG2	2.32	0.65
2:H:676:ILE:O	2:H:676:ILE:HG23	1.94	0.65
3:I:119:SER:OG	3:I:123:LEU:HD22	1.97	0.65
3:I:495:ARG:O	3:I:499:VAL:HG23	1.97	0.65
3:I:1274:ILE:HG13	3:I:1334:GLN:HE21	1.62	0.65
3:I:1320:GLU:CG	3:I:1339:LYS:HZ1	1.84	0.65
1:K:184:THR:HG22	1:K:185:ARG:N	2.11	0.65
2:M:376:ARG:HB3	2:M:377:PRO:HD3	1.77	0.65
2:M:966:LEU:HD21	2:M:986:PRO:CG	2.27	0.65
3:N:811:GLU:O	3:N:815:ALA:HB3	1.97	0.65
7:Y:91:LEU:HB3	7:Y:149:PHE:HB3	1.76	0.65
1:B:24:VAL:HG22	1:B:196:THR:HG22	1.77	0.65
2:C:278:GLU:OE1	2:C:283:ILE:HG22	1.96	0.65
2:C:678:PRO:HG3	2:C:873:PRO:HD2	1.79	0.65
2:C:874:LEU:HD21	3:D:787:LEU:HD23	1.78	0.65
3:D:637:LEU:HD21	3:D:642:CYS:CA	2.20	0.65
3:D:1372:VAL:CA	3:D:1375:MET:HE3	2.23	0.65
1:F:62:LEU:HD12	1:F:62:LEU:N	2.11	0.65
2:H:45:GLN:O	2:H:48:PHE:HB2	1.96	0.65
2:H:679:PHE:O	2:H:680:ASP:C	2.40	0.65
2:H:742:VAL:HG12	2:H:743:VAL:N	2.11	0.65
2:H:997:LEU:C	2:H:999:HIS:H	2.05	0.65
2:H:1070:ILE:HG21	3:I:655:PRO:HB2	1.79	0.65
2:M:173:ASP:OD1	2:M:185:LYS:HB2	1.97	0.65
3:N:15:PRO:HA	3:N:18:ILE:HD12	1.78	0.65
3:N:142:LEU:HG	3:N:145:VAL:C	2.22	0.65
3:N:525:ARG:O	3:N:525:ARG:HG2	1.96	0.65
3:N:704:ARG:CB	3:N:736:PHE:HB3	2.24	0.65
3:N:1021:TYR:CE2	3:N:1025:GLN:CG	2.79	0.65
3:N:1195:GLN:HG3	3:N:1196:THR:N	2.11	0.65
1:B:35:THR:O	1:B:39:PRO:HG2	1.95	0.65
2:C:502:PRO:HB2	2:C:509:ALA:HB3	1.77	0.65
2:C:565:GLN:HG2	2:C:995:MET:HE1	1.77	0.65
2:H:250:ARG:C	2:H:252:LYS:H	2.04	0.65
2:H:625:LEU:HD11	2:H:641:PRO:HG3	1.79	0.65
3:I:166:GLN:HE22	3:I:394:LEU:HB2	1.60	0.65
3:I:433:GLY:HA3	3:I:447:VAL:O	1.97	0.65
3:I:963:TYR:CD2	3:I:1002:LYS:HD3	2.31	0.65
3:I:1258:ARG:HH21	3:I:1351:GLU:HG2	1.60	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:185:ARG:HH12	3:N:689:ASP:HA	1.60	0.65
2:M:237:ARG:HH11	2:M:237:ARG:HG3	1.60	0.65
2:M:549:PHE:CG	2:M:886:LEU:HD23	2.32	0.65
3:N:166:GLN:HG2	3:N:396:VAL:HG12	1.79	0.65
3:N:1403:LEU:O	3:N:1407:LEU:HD13	1.96	0.65
7:X:115:THR:CB	7:X:116:PRO:HD3	2.27	0.65
7:Z:125:MET:HA	7:Z:140:LEU:HD11	1.79	0.65
1:B:103:ALA:HB1	1:B:107:LYS:HD3	1.77	0.65
2:H:163:ILE:HD12	2:H:164:PRO:N	2.11	0.65
2:H:239:PHE:CE1	2:H:252:LYS:HA	2.32	0.65
2:H:328:LEU:H	2:H:433:THR:HG21	1.61	0.65
3:I:456:MET:HE3	3:I:568:ARG:CD	2.26	0.65
3:I:853:VAL:HG22	3:I:858:VAL:HG23	1.78	0.65
3:I:1288:GLU:O	3:I:1307:LYS:HG2	1.97	0.65
3:N:409:VAL:HG12	3:N:410:SER:N	2.12	0.65
3:N:613:ARG:NH1	3:N:616:GLN:HB3	2.11	0.65
7:X:33:LEU:HD12	7:X:51:ALA:HB1	1.79	0.65
7:X:99:ARG:HH11	7:X:99:ARG:CG	2.09	0.65
1:A:206:THR:H	1:A:209:GLU:HG3	1.61	0.65
1:A:225:PHE:CE2	1:B:25:LEU:HD13	2.32	0.65
2:C:1004:LYS:HD2	3:D:744:GLN:NE2	2.11	0.65
3:D:810:GLU:HG3	3:D:811:GLU:N	2.10	0.65
1:F:57:TYR:CZ	1:F:161:ARG:HD2	2.32	0.65
1:F:58:ILE:HD12	1:F:58:ILE:N	2.11	0.65
1:G:59:GLU:HB2	1:G:137:ARG:NH1	2.08	0.65
2:H:495:THR:HG23	2:H:517:ARG:HE	1.61	0.65
3:I:29:PRO:HD3	3:I:548:ILE:HG22	1.77	0.65
3:I:493:ARG:HG3	3:I:494:LYS:H	1.61	0.65
3:I:686:GLU:HA	3:I:689:ASP:OD2	1.97	0.65
3:I:1217:ILE:HB	3:I:1480:PHE:CD2	2.32	0.65
3:I:1321:ALA:HB3	3:I:1339:LYS:HD3	1.79	0.65
2:M:6:PHE:HZ	2:M:901:TYR:HD2	1.44	0.65
2:M:264:PRO:CB	2:M:289:THR:HG21	2.25	0.65
2:M:294:GLU:HG2	2:M:295:ASP:N	2.12	0.65
2:M:794:PRO:HG2	2:M:1025:ALA:O	1.97	0.65
3:N:53:ILE:HG13	3:N:53:ILE:O	1.96	0.65
3:N:1263:PHE:HB3	3:N:1424:VAL:CG1	2.26	0.65
3:N:1348:LEU:HD23	3:N:1372:VAL:HG23	1.79	0.65
3:N:1459:LEU:HD22	3:N:1470:ARG:HH21	1.60	0.65
2:C:9:ILE:HG12	2:C:907:ASP:CG	2.22	0.65
2:C:250:ARG:C	2:C:252:LYS:H	2.03	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:265:ARG:HB3	2:C:267:TYR:CD2	2.32	0.65
2:C:773:LEU:O	2:C:777:ILE:HG12	1.97	0.65
2:C:872:ASN:HD21	2:C:874:LEU:HB2	1.62	0.65
2:C:1100:GLN:HA	2:C:1100:GLN:NE2	2.12	0.65
3:D:52:PRO:CB	3:D:80:VAL:HG11	2.21	0.65
3:D:142:LEU:CD2	3:D:145:VAL:C	2.69	0.65
3:D:1348:LEU:HD23	3:D:1372:VAL:HG23	1.77	0.65
4:E:58:PRO:HG2	4:E:59:ASN:H	1.62	0.65
1:F:26:GLU:HB2	1:F:194:LYS:HA	1.77	0.65
1:F:66:SER:O	1:F:75:VAL:HG23	1.97	0.65
1:G:24:VAL:HG22	1:G:196:THR:HG22	1.78	0.65
2:H:545:ASN:OD1	2:H:905:ILE:HG13	1.96	0.65
2:H:679:PHE:HB2	2:H:683:ASN:HD21	1.61	0.65
3:I:160:GLU:OE1	3:I:161:LEU:HD12	1.96	0.65
3:I:813:LEU:HD12	3:I:814:ALA:CA	2.27	0.65
3:I:1137:ARG:O	3:I:1141:GLU:HG3	1.97	0.65
3:I:1219:GLU:OE1	4:J:17:TYR:OH	2.12	0.65
1:K:153:ALA:HA	1:K:156:HIS:CE1	2.32	0.65
2:M:197:LEU:HD13	2:M:207:LEU:HD11	1.79	0.65
2:M:593:ALA:HB1	2:M:659:PRO:HD2	1.77	0.65
2:M:720:GLU:HA	2:M:759:THR:O	1.97	0.65
3:N:185:VAL:HG21	3:N:203:ALA:HB2	1.78	0.65
3:N:1205:TYR:HE1	3:N:1370:ILE:HD11	1.62	0.65
1:B:44:LEU:HA	1:B:48:ILE:HD13	1.78	0.64
2:C:21:ILE:HD12	2:C:21:ILE:N	2.08	0.64
2:C:1074:GLU:HG2	2:C:1075:ASP:N	2.08	0.64
3:D:87:ARG:HB3	3:D:523:ASP:CB	2.14	0.64
3:D:705:ALA:CB	3:D:706:PRO:HD3	2.26	0.64
1:F:33:GLY:O	1:F:195:LEU:HD22	1.96	0.64
1:G:86:VAL:HG13	1:G:86:VAL:O	1.95	0.64
2:H:536:PRO:HB3	2:H:906:PHE:HD1	1.62	0.64
2:H:1097:LEU:CG	3:I:10:ILE:HG23	2.26	0.64
3:I:795:VAL:CG2	3:I:879:ARG:HH12	2.07	0.64
3:I:1148:VAL:O	3:I:1188:VAL:HG23	1.97	0.64
2:M:98:LEU:HD12	2:M:98:LEU:H	1.62	0.64
2:M:313:LEU:HD13	2:M:321:GLU:O	1.96	0.64
2:M:606:VAL:HG21	2:M:645:VAL:N	2.12	0.64
2:M:723:THR:HG23	2:M:725:ASP:H	1.61	0.64
3:N:166:GLN:HE22	3:N:394:LEU:CB	2.03	0.64
3:N:639:LEU:HD13	3:N:766:ALA:HB2	1.78	0.64
3:N:829:VAL:HG12	3:N:830:ALA:N	2.10	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:893:GLU:O	3:N:896:ALA:HB3	1.96	0.64
3:N:1108:ARG:NH2	3:N:1198:TYR:O	2.29	0.64
3:N:1189:ARG:HH11	3:N:1189:ARG:HG3	1.62	0.64
3:D:133:ILE:O	3:D:152:LEU:CB	2.37	0.64
3:D:397:LYS:HG2	3:D:448:GLU:CB	2.27	0.64
3:D:1381:VAL:HG21	3:D:1391:GLU:HB2	1.79	0.64
1:G:74:ASP:HB2	3:I:872:ARG:NH2	2.12	0.64
2:H:500:ASN:N	2:H:500:ASN:HD22	1.94	0.64
2:H:896:PHE:O	2:H:924:VAL:HG11	1.97	0.64
3:I:563:PRO:HG3	2:M:180:GLY:O	1.97	0.64
1:L:94:LEU:HD11	1:L:119:ASP:HB2	1.79	0.64
2:M:436:GLY:HA2	2:M:538:GLN:O	1.97	0.64
2:M:676:ILE:HG21	2:M:988:VAL:HG13	1.78	0.64
3:N:135:LEU:HD23	3:N:149:LYS:O	1.97	0.64
3:N:1159:ARG:HH11	3:N:1159:ARG:HG2	1.62	0.64
3:N:1453:ALA:O	3:N:1455:LYS:N	2.30	0.64
7:Z:139:SER:OG	7:Z:148:GLU:HG3	1.98	0.64
1:B:36:LEU:O	1:B:39:PRO:HD2	1.97	0.64
2:C:158:TYR:CD1	2:C:158:TYR:N	2.65	0.64
3:D:860:LEU:HD22	3:D:878:GLY:CA	2.26	0.64
1:F:82:LEU:O	1:F:85:LEU:HB3	1.97	0.64
2:H:878:SER:CB	3:I:1029:ARG:NH1	2.61	0.64
3:I:800:LYS:CG	3:I:826:PRO:HD3	2.16	0.64
1:K:65:PHE:CE1	2:M:799:ILE:HD12	2.32	0.64
1:K:184:THR:OG1	1:K:192:LEU:CB	2.44	0.64
2:M:139:GLN:NE2	2:M:414:GLY:HA3	2.12	0.64
2:M:140:ILE:CD1	2:M:412:ALA:HA	2.27	0.64
2:M:283:ILE:HG23	2:M:284:ARG:N	2.12	0.64
2:C:690:ILE:HG13	2:C:694:LEU:HD12	1.79	0.64
1:F:20:TYR:CE2	1:F:198:ARG:HB2	2.31	0.64
2:H:129:ILE:HG22	2:H:130:ASN:N	2.11	0.64
2:M:265:ARG:HD3	2:M:267:TYR:CD1	2.32	0.64
2:M:305:PRO:HA	2:M:308:ARG:HB2	1.79	0.64
2:M:1019:GLN:CD	3:N:621:LYS:HG3	2.23	0.64
3:N:170:PRO:HA	3:N:392:SER:OG	1.98	0.64
7:Y:102:VAL:HG13	7:Y:103:GLN:N	2.11	0.64
2:C:162:ILE:O	2:C:164:PRO:HD3	1.98	0.64
2:C:939:ARG:HA	2:C:939:ARG:NE	1.99	0.64
3:D:138:LYS:N	3:D:138:LYS:HD3	2.11	0.64
3:D:1000:THR:O	3:D:1003:VAL:HG12	1.97	0.64
2:H:611:ILE:HG12	2:H:625:LEU:HD21	1.79	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:62:LYS:HB2	3:I:73:CYS:SG	2.36	0.64
3:I:1443:THR:O	3:I:1447:LEU:HD13	1.98	0.64
4:J:30:LEU:HD21	4:J:63:TRP:HB2	1.80	0.64
2:M:462:ASP:HB3	2:M:468:ARG:HD3	1.79	0.64
2:M:946:ARG:O	2:M:950:LEU:HB2	1.97	0.64
3:N:507:ASN:HD22	3:N:507:ASN:N	1.95	0.64
1:B:177:VAL:HG12	1:B:199:ILE:CD1	2.27	0.64
2:C:673:LEU:HB3	2:C:868:ASP:OD1	1.98	0.64
2:H:52:PHE:CD1	2:H:53:PRO:N	2.66	0.64
2:H:524:VAL:HG12	2:H:525:SER:H	1.63	0.64
2:H:544:THR:C	2:H:546:LEU:H	2.06	0.64
3:I:501:ALA:HB3	3:I:1452:ILE:HG22	1.78	0.64
3:I:1319:VAL:HA	3:I:1323:GLN:NE2	2.12	0.64
1:L:20:TYR:CD2	1:L:21:GLY:N	2.66	0.64
1:L:187:GLY:O	3:N:688:TRP:HD1	1.81	0.64
2:M:110:GLU:HG3	2:M:369:PRO:CG	2.27	0.64
2:M:157:ARG:HD3	2:M:314:THR:CG2	2.27	0.64
2:M:690:ILE:HD13	2:M:691:SER:N	2.12	0.64
3:N:507:ASN:HD22	3:N:507:ASN:H	1.44	0.64
4:O:48:MET:N	4:O:54:LEU:HB2	2.13	0.64
4:O:70:THR:HG21	4:O:72:ARG:CZ	2.28	0.64
7:X:36:LEU:HD13	7:X:47:GLY:O	1.96	0.64
2:C:113:VAL:HG11	2:C:373:VAL:HB	1.79	0.64
2:C:854:PRO:HB2	2:C:856:GLU:CD	2.23	0.64
3:D:145:VAL:HG22	3:D:146:PRO:HD2	1.78	0.64
3:D:812:ALA:HB1	3:D:816:HIS:HD2	1.63	0.64
3:D:984:THR:HG22	3:D:987:GLU:CG	2.28	0.64
2:H:177:GLU:CD	2:H:179:ASN:HB3	2.23	0.64
2:H:810:ASP:HB3	2:H:813:VAL:HG12	1.80	0.64
2:H:1005:MET:O	2:H:1005:MET:CG	2.46	0.64
3:I:133:ILE:HG22	3:I:134:VAL:N	2.13	0.64
1:L:20:TYR:HD2	1:L:21:GLY:N	1.95	0.64
2:M:1012:PRO:HD3	2:M:1026:GLN:CB	2.27	0.64
3:N:1366:LYS:O	3:N:1369:GLU:HB2	1.97	0.64
2:C:63:GLY:N	2:C:103:LYS:HG3	2.13	0.64
2:C:333:ILE:HG12	2:C:410:ILE:HD11	1.78	0.64
2:C:601:GLY:HA2	2:C:616:GLU:HG2	1.80	0.64
3:D:116:LEU:O	3:D:116:LEU:HD23	1.97	0.64
3:D:1401:GLU:OE2	3:D:1402:ALA:N	2.31	0.64
3:D:1453:ALA:O	3:D:1455:LYS:N	2.31	0.64
1:F:99:LEU:HD13	1:F:99:LEU:N	2.12	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:162:ILE:HD13	1:G:162:ILE:N	2.12	0.64
2:H:84:ARG:NE	2:H:128:ILE:HD11	2.13	0.64
2:H:110:GLU:CG	2:H:369:PRO:HB3	2.28	0.64
2:H:239:PHE:CE2	2:H:252:LYS:HG2	2.32	0.64
3:I:50:PHE:O	3:I:89:ARG:HD2	1.98	0.64
3:I:650:LEU:HD22	3:I:688:TRP:CH2	2.33	0.64
3:I:886:VAL:HG13	3:I:930:LEU:HD11	1.79	0.64
3:I:1257:PRO:HA	3:I:1260:ILE:CD1	2.26	0.64
1:K:211:LEU:O	1:K:215:VAL:HG23	1.98	0.64
2:M:221:LEU:HD12	2:M:222:MET:N	2.13	0.64
2:M:470:PRO:HB3	2:M:485:TYR:CE2	2.33	0.64
2:M:882:LEU:HA	2:M:885:ILE:HD13	1.79	0.64
3:N:414:ARG:HD2	3:N:414:ARG:N	2.13	0.64
3:N:781:PRO:HB2	3:N:786:ILE:HD11	1.79	0.64
1:B:102:LYS:HB2	1:B:139:ASN:OD1	1.98	0.64
2:C:1031:ARG:HH21	3:D:621:LYS:HZ2	1.44	0.64
2:C:1084:SER:HB3	3:D:617:ASN:ND2	2.10	0.64
3:D:348:GLN:HB2	3:D:351:MET:SD	2.38	0.64
3:D:1137:ARG:O	3:D:1141:GLU:HG3	1.97	0.64
1:F:218:LEU:HD23	1:G:222:LEU:HD11	1.79	0.64
1:F:218:LEU:HD23	1:G:222:LEU:HD21	1.80	0.64
2:H:425:PHE:HE1	3:I:1079:LYS:NZ	1.89	0.64
3:I:729:HIS:CE1	3:I:731:LEU:HB2	2.33	0.64
3:I:996:TRP:CE3	3:I:999:THR:HG21	2.33	0.64
3:I:1045:MET:O	3:I:1053:PHE:HB2	1.97	0.64
1:K:35:THR:HG21	1:L:43:ILE:HD11	1.79	0.64
2:M:174:LEU:CD2	2:M:184:MET:HG3	2.28	0.64
2:M:200:LEU:HD11	2:M:202:TYR:CD2	2.33	0.64
2:M:554:ASP:OD2	2:M:556:ASN:HB3	1.98	0.64
3:N:179:VAL:HG21	3:N:189:GLN:NE2	2.10	0.64
3:N:1168:MET:HA	3:N:1168:MET:HE3	1.80	0.64
1:B:12:THR:OG1	1:B:24:VAL:HB	1.97	0.64
1:B:123:MET:O	1:B:125:PRO:HD3	1.98	0.64
2:C:730:SER:O	2:C:734:LEU:HD13	1.97	0.64
3:D:866:VAL:HG11	3:D:880:ILE:CD1	2.26	0.64
3:D:1095:THR:O	3:D:1099:VAL:CG2	2.43	0.64
3:D:1263:PHE:HB3	3:D:1424:VAL:HG11	1.79	0.64
1:F:26:GLU:HG2	1:F:27:PRO:HG3	1.79	0.64
1:G:79:ILE:HG13	1:G:80:LEU:N	2.13	0.64
2:H:251:ASP:O	2:H:251:ASP:OD2	2.15	0.64
3:I:206:ARG:NH2	3:I:438:ASP:OD1	2.30	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:841:TYR:HB3	3:I:843:PHE:CE1	2.33	0.64
2:M:309:TYR:CE2	2:M:321:GLU:HB3	2.33	0.64
2:M:794:PRO:HG2	2:M:1025:ALA:HA	1.80	0.64
2:M:1092:LEU:HD21	3:N:1447:LEU:HD23	1.80	0.64
3:N:105:VAL:HG22	3:N:112:ILE:HG21	1.80	0.64
3:N:522:PRO:HA	3:N:525:ARG:NH1	2.13	0.64
3:N:925:GLU:CD	4:O:6:ILE:HG22	2.23	0.64
2:C:64:LEU:HB2	2:C:359:MET:SD	2.37	0.63
2:C:1092:LEU:CD1	2:C:1099:VAL:HG21	2.20	0.63
3:D:683:ILE:HG21	3:D:688:TRP:CE2	2.32	0.63
1:F:188:GLN:HE21	1:F:188:GLN:N	1.96	0.63
2:H:199:VAL:HG21	2:H:238:LEU:CD1	2.27	0.63
2:H:878:SER:HA	3:I:1034:GLN:HE22	1.63	0.63
3:I:842:VAL:HA	3:I:865:THR:OG1	1.97	0.63
2:M:768:THR:HB	2:M:771:GLU:HB3	1.80	0.63
2:M:950:LEU:HD12	2:M:952:LEU:HD21	1.79	0.63
3:N:127:LEU:C	3:N:127:LEU:CD1	2.72	0.63
3:N:139:GLY:O	3:N:147:VAL:HB	1.97	0.63
7:Y:115:THR:HB	7:Y:116:PRO:HD3	1.80	0.63
1:A:24:VAL:HG13	1:A:196:THR:HG22	1.80	0.63
2:C:1096:ALA:HB2	3:D:101:HIS:NE2	2.13	0.63
3:D:660:LYS:HA	3:D:660:LYS:HZ2	1.64	0.63
3:D:1399:ASP:O	3:D:1403:LEU:HB2	1.98	0.63
1:F:196:THR:OG1	2:H:934:PHE:HZ	1.79	0.63
1:G:41:ARG:HG3	1:G:177:VAL:CG2	2.28	0.63
2:H:338:GLU:O	2:H:341:THR:HG22	1.97	0.63
2:H:415:PRO:HD2	2:H:418:LEU:HD13	1.80	0.63
2:H:688:ILE:HD11	2:H:847:GLY:HA3	1.80	0.63
2:H:1001:VAL:HB	3:I:724:GLN:OE1	1.98	0.63
1:K:41:ARG:HG3	1:K:177:VAL:CG1	2.28	0.63
1:K:189:ARG:HG3	1:K:191:ASP:OD1	1.98	0.63
2:M:211:LEU:HD23	2:M:221:LEU:CD2	2.27	0.63
2:M:338:GLU:CA	2:M:341:THR:HG22	2.28	0.63
2:M:632:ASN:HB3	2:M:633:GLN:NE2	2.11	0.63
2:M:897:LEU:HB3	2:M:899:GLN:NE2	2.13	0.63
3:N:353:VAL:HG12	3:N:368:VAL:CG2	2.29	0.63
3:N:826:PRO:HD2	3:N:829:VAL:CG2	2.27	0.63
3:N:838:ARG:HB3	3:N:865:THR:HG23	1.80	0.63
3:N:1156:LEU:HD12	3:N:1176:LYS:HE3	1.79	0.63
7:Y:104:VAL:HG22	7:Y:119:ILE:HD12	1.79	0.63
2:C:4:LYS:NZ	2:C:917:LEU:HD21	2.14	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1085:PHE:CE1	2:C:1111:ILE:HG21	2.33	0.63
3:D:704:ARG:NH2	6:Q:10:G:O2'	2.32	0.63
3:D:804:LEU:CB	3:D:830:ALA:O	2.46	0.63
3:D:1371:VAL:HG12	3:D:1375:MET:HE2	1.81	0.63
2:H:52:PHE:CD1	2:H:52:PHE:C	2.76	0.63
2:H:158:TYR:CE1	2:H:313:LEU:HD11	2.32	0.63
2:H:234:ALA:HA	2:H:237:ARG:HB2	1.79	0.63
2:H:288:ARG:HB2	2:H:288:ARG:HH11	1.61	0.63
2:H:626:ARG:H	2:H:639:GLN:NE2	1.95	0.63
3:I:1066:THR:HG22	3:I:1069:GLU:HB2	1.81	0.63
3:N:160:GLU:HG2	3:N:165:LYS:CG	2.28	0.63
3:N:1369:GLU:O	3:N:1372:VAL:HG12	1.97	0.63
4:O:41:GLU:OE1	4:O:42:PRO:HD3	1.98	0.63
7:X:147:ARG:CZ	7:X:149:PHE:HZ	2.11	0.63
7:Y:5:VAL:HG12	7:Y:72:ALA:CB	2.28	0.63
2:C:282:GLY:O	2:C:283:ILE:HD13	1.98	0.63
2:C:445:GLU:HG3	2:C:560:MET:HE3	1.81	0.63
2:C:492:ASP:OD2	2:C:518:LYS:HG3	1.98	0.63
2:C:516:ARG:NE	3:D:1068:LEU:HD22	2.14	0.63
3:D:205:TYR:CD1	3:D:390:PRO:HG3	2.33	0.63
3:D:1018:ASN:O	3:D:1022:VAL:HG23	1.99	0.63
3:D:1366:LYS:O	3:D:1369:GLU:HB2	1.97	0.63
1:G:86:VAL:CG1	1:G:124:ASN:HB2	2.24	0.63
3:I:731:LEU:HD13	3:I:931:LEU:HD22	1.79	0.63
3:I:1176:LYS:O	3:I:1179:GLU:HB2	1.97	0.63
3:I:1209:LEU:HD21	4:J:16:LYS:HZ2	1.62	0.63
2:M:108:ILE:N	2:M:108:ILE:HD12	2.13	0.63
2:M:267:TYR:CB	2:M:272:ALA:CB	2.74	0.63
2:M:339:LEU:HD11	2:M:391:LEU:HD13	1.81	0.63
2:M:585:GLU:HG2	2:M:665:PHE:CE2	2.33	0.63
2:M:1066:ALA:O	2:M:1070:ILE:HG13	1.99	0.63
3:N:1000:THR:HG23	3:N:1001:GLU:N	2.12	0.63
7:Z:33:LEU:HD11	7:Z:52:LYS:HG2	1.79	0.63
7:Z:92:GLU:HA	7:Z:98:GLU:O	1.98	0.63
7:Z:112:VAL:O	7:Z:117:MET:HE2	1.99	0.63
2:C:367:LEU:HB3	2:C:371:LYS:HE2	1.80	0.63
3:D:104:PHE:O	3:D:112:ILE:HG22	1.99	0.63
3:D:119:SER:HB2	3:D:123:LEU:H	1.63	0.63
3:D:135:LEU:HD13	3:D:148:GLU:O	1.98	0.63
3:D:481:MET:HE2	3:D:493:ARG:HA	1.79	0.63
3:D:1026:SER:C	3:D:1028:ALA:H	2.05	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1071:PHE:O	3:D:1074:SER:HB3	1.98	0.63
1:F:184:THR:HB	1:F:192:LEU:HB2	1.81	0.63
2:H:110:GLU:HB2	2:H:368:THR:HG22	1.81	0.63
3:I:969:ARG:HG3	3:I:970:LYS:H	1.62	0.63
3:I:1326:THR:CG2	3:I:1327:ARG:H	2.10	0.63
3:I:1403:LEU:O	3:I:1407:LEU:HB2	1.99	0.63
2:M:1063:ARG:O	2:M:1063:ARG:HD3	1.99	0.63
3:N:1066:THR:HG23	3:N:1069:GLU:H	1.63	0.63
3:N:1438:ALA:O	3:N:1443:THR:HG22	1.99	0.63
7:Y:6:LYS:HD2	7:Y:75:LEU:HD11	1.80	0.63
2:C:571:LEU:HD23	2:C:670:GLN:HG3	1.79	0.63
3:D:1264:GLU:HG2	3:D:1266:ARG:HH21	1.64	0.63
1:F:56:VAL:HG12	1:F:57:TYR:N	2.13	0.63
1:F:61:VAL:HG21	1:F:68:ILE:HD11	1.81	0.63
1:G:20:TYR:OH	1:G:198:ARG:HD2	1.99	0.63
3:I:98:PRO:HG2	3:I:462:GLN:OE1	1.99	0.63
3:I:1402:ALA:HB2	3:I:1415:VAL:CG2	2.28	0.63
1:K:177:VAL:HG22	1:K:199:ILE:HG22	1.80	0.63
2:M:687:ALA:HB1	2:M:850:ALA:HB2	1.79	0.63
3:N:433:GLY:HA3	3:N:447:VAL:O	1.99	0.63
3:N:764:LEU:HD12	3:N:765:SER:H	1.64	0.63
1:B:58:ILE:HG21	1:B:68:ILE:HD11	1.81	0.63
2:C:571:LEU:HD21	2:C:699:PHE:O	1.99	0.63
2:C:997:LEU:C	2:C:999:HIS:H	2.06	0.63
3:D:52:PRO:CG	3:D:78:VAL:HG13	2.28	0.63
3:D:209:ARG:N	3:D:389:GLU:O	2.18	0.63
3:D:695:ILE:HD11	3:D:718:PRO:HB2	1.80	0.63
1:G:212:ASN:O	1:G:215:VAL:HG22	1.98	0.63
2:H:95:TYR:CD2	2:H:114:PHE:HB3	2.34	0.63
2:H:937:ASP:HB3	2:H:940:GLU:HG3	1.81	0.63
3:I:163:TYR:HD1	2:M:209:ARG:HH22	1.43	0.63
3:I:204:LEU:HB2	3:I:394:LEU:CD2	2.29	0.63
3:I:205:TYR:O	3:I:206:ARG:CG	2.45	0.63
1:L:52:ALA:HB2	1:L:170:VAL:C	2.23	0.63
2:M:281:LEU:CG	2:M:282:GLY:N	2.61	0.63
3:N:642:CYS:HB3	3:N:716:PHE:CG	2.33	0.63
3:N:695:ILE:HD11	3:N:718:PRO:HB2	1.79	0.63
1:A:128:HIS:CE1	1:A:131:THR:HG23	2.34	0.63
2:C:831:ARG:HH12	2:C:1002:GLU:CB	2.11	0.63
2:C:862:PRO:HB3	2:C:929:ARG:HH22	1.64	0.63
3:D:14:SER:O	3:D:18:ILE:HG12	1.99	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:162:ILE:O	2:H:162:ILE:HG22	1.99	0.63
2:H:279:GLU:HG3	2:H:280:LYS:N	2.13	0.63
2:H:676:ILE:O	3:I:948:THR:HG22	1.99	0.63
2:H:875:GLY:O	2:H:879:ARG:HD2	1.98	0.63
3:I:87:ARG:O	3:I:524:LEU:HD11	1.98	0.63
3:I:571:LYS:O	3:I:574:LEU:HB3	1.99	0.63
3:I:820:GLU:HG2	3:I:825:ALA:O	1.99	0.63
3:I:827:ILE:HG23	3:I:837:GLY:HA2	1.81	0.63
3:I:1397:LYS:HD2	3:I:1432:LYS:HZ2	1.62	0.63
1:K:91:ASN:H	1:K:94:LEU:HD12	1.63	0.63
2:M:677:MET:HA	2:M:873:PRO:CG	2.29	0.63
2:M:872:ASN:ND2	2:M:874:LEU:HB2	2.12	0.63
2:M:905:ILE:N	2:M:905:ILE:CD1	2.61	0.63
3:N:584:ASN:ND2	3:N:590:PRO:HD2	2.13	0.63
3:N:804:LEU:CD2	3:N:831:GLY:HA3	2.23	0.63
4:O:6:ILE:O	4:O:9:LEU:HB2	1.98	0.63
2:C:78:PHE:HB3	2:C:79:PRO:HD2	1.81	0.63
2:C:174:LEU:HD23	2:C:184:MET:HA	1.80	0.63
2:C:836:GLY:CA	2:C:1001:VAL:HG21	2.26	0.63
3:D:756:GLN:O	3:D:759:ALA:HB3	1.98	0.63
3:D:810:GLU:C	3:D:812:ALA:N	2.56	0.63
3:D:1161:GLU:HG2	3:D:1164:ARG:HB2	1.81	0.63
1:F:76:VAL:HA	1:F:79:ILE:CG1	2.29	0.63
2:H:17:PRO:O	2:H:20:GLU:HB3	1.99	0.63
2:H:193:LEU:CD1	2:H:193:LEU:H	2.12	0.63
2:M:670:GLN:NE2	2:M:699:PHE:O	2.31	0.63
3:N:140:ALA:HB3	3:N:450:TYR:CE2	2.33	0.63
3:N:180:LYS:HE2	3:N:386:HIS:ND1	2.14	0.63
3:N:358:GLY:CA	3:N:385:VAL:O	2.46	0.63
3:N:550:ARG:HD3	3:N:573:MET:HB3	1.81	0.63
3:N:1129:THR:HG23	3:N:1130:ARG:H	1.63	0.63
3:N:1481:VAL:CG1	4:O:18:ARG:HA	2.11	0.63
2:C:399:ASN:ND2	2:C:568:ALA:HB3	2.13	0.62
2:C:762:LYS:CG	2:C:763:GLY:N	2.62	0.62
3:D:620:GLY:O	3:D:621:LYS:HG2	1.98	0.62
2:H:260:LEU:CA	2:H:291:ALA:HB1	2.28	0.62
3:I:543:LEU:HD13	3:I:581:LEU:HA	1.80	0.62
3:I:1062:ARG:HH11	3:I:1062:ARG:CG	2.11	0.62
2:M:157:ARG:NH1	2:M:314:THR:HB	2.14	0.62
2:M:328:LEU:HB2	2:M:433:THR:HG21	1.81	0.62
3:N:23:TYR:O	3:N:49:ILE:HG23	1.99	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:358:GLY:HA2	3:N:385:VAL:C	2.24	0.62
3:N:875:THR:CG2	3:N:876:SER:N	2.62	0.62
7:Y:14:ARG:HH11	7:Y:14:ARG:CB	2.09	0.62
2:C:367:LEU:HB3	2:C:371:LYS:HE3	1.81	0.62
3:D:510:GLU:O	3:D:513:ILE:HG13	1.98	0.62
3:D:1272:ALA:HA	3:D:1326:THR:HB	1.80	0.62
1:G:19:GLU:HG3	1:G:201:THR:O	1.99	0.62
1:G:62:LEU:HD13	1:G:63:HIS:CD2	2.34	0.62
2:H:148:PHE:HE1	2:H:309:TYR:HB3	1.61	0.62
2:H:260:LEU:HD22	2:H:292:ARG:HH11	1.62	0.62
3:I:143:ASN:HB3	3:I:161:LEU:CD2	2.29	0.62
3:I:702:LEU:O	3:I:713:ILE:HG23	1.98	0.62
3:I:982:PHE:O	7:Y:123:SER:OG	2.16	0.62
1:L:221:HIS:HA	1:L:224:TYR:HD2	1.64	0.62
2:M:1019:GLN:HG3	3:N:621:LYS:HZ3	1.64	0.62
2:M:1052:MET:SD	2:M:1056:LYS:HD2	2.39	0.62
3:N:98:PRO:O	3:N:458:ALA:HB3	1.99	0.62
3:N:1101:VAL:HG11	3:N:1424:VAL:HG23	1.81	0.62
3:N:1256:LEU:HB3	3:N:1257:PRO:HD3	1.81	0.62
7:X:128:ALA:HB2	7:X:140:LEU:HD21	1.80	0.62
1:A:9:PRO:HB2	1:B:224:TYR:HB3	1.79	0.62
3:D:1488:ASP:O	3:D:1490:LYS:N	2.33	0.62
1:F:61:VAL:CG2	1:F:68:ILE:HD11	2.30	0.62
2:H:191:PHE:O	2:H:193:LEU:HD12	1.99	0.62
2:H:267:TYR:CB	2:H:272:ALA:HB1	2.29	0.62
3:I:181:ASP:O	3:I:204:LEU:HA	2.00	0.62
3:I:701:LEU:C	3:I:702:LEU:HD12	2.24	0.62
3:I:879:ARG:O	3:I:882:PHE:HB3	1.99	0.62
2:M:204:GLN:NE2	2:M:228:ALA:CB	2.62	0.62
2:M:1042:ALA:HB2	3:N:1227:GLN:NE2	2.15	0.62
3:N:1280:VAL:HA	3:N:1318:TYR:HA	1.81	0.62
7:X:5:VAL:O	7:X:73:VAL:HG23	2.00	0.62
1:A:36:LEU:C	1:A:39:PRO:HD2	2.24	0.62
1:A:61:VAL:HG13	1:A:66:SER:HB3	1.82	0.62
3:D:807:ALA:HA	3:D:833:GLU:HG2	1.80	0.62
3:D:881:LEU:HD21	3:D:941:PHE:HZ	1.64	0.62
3:D:1110:ALA:O	3:D:1111:ASP:C	2.42	0.62
3:D:1299:PHE:CD2	3:D:1299:PHE:N	2.67	0.62
1:G:29:GLU:HB2	1:G:32:PHE:HD1	1.64	0.62
2:H:204:GLN:OE1	2:H:204:GLN:N	2.33	0.62
2:H:352:ALA:C	2:H:355:VAL:HG12	2.24	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:611:ILE:HD11	2:H:641:PRO:HG3	1.82	0.62
3:I:400:VAL:HG22	3:I:443:VAL:HG21	1.79	0.62
3:I:755:ALA:O	3:I:758:GLU:HG2	1.99	0.62
3:I:984:THR:HG22	3:I:987:GLU:HG3	1.81	0.62
3:I:1299:PHE:HD2	3:I:1299:PHE:H	1.43	0.62
1:L:59:GLU:HG3	1:L:137:ARG:HH22	1.63	0.62
3:N:521:PRO:HB2	3:N:524:LEU:HD13	1.81	0.62
3:N:800:LYS:HB2	3:N:829:VAL:HG13	1.81	0.62
3:N:930:LEU:HD11	3:N:934:LEU:HD11	1.81	0.62
2:C:679:PHE:HB2	2:C:683:ASN:ND2	2.13	0.62
2:C:754:ILE:HD12	2:C:754:ILE:H	1.64	0.62
3:D:18:ILE:CG2	3:D:518:PRO:HG3	2.27	0.62
3:D:127:LEU:C	3:D:127:LEU:CD1	2.73	0.62
3:D:143:ASN:CB	3:D:161:LEU:HD21	2.28	0.62
3:D:520:LEU:HD11	3:D:524:LEU:CD2	2.30	0.62
3:D:1047:LYS:HB3	3:D:1048:PRO:HD2	1.80	0.62
3:D:1105:ILE:N	3:D:1105:ILE:CD1	2.62	0.62
1:F:25:LEU:HD22	1:G:225:PHE:HE2	1.64	0.62
3:I:984:THR:HG22	3:I:987:GLU:CD	2.25	0.62
3:I:1472:ILE:H	3:I:1472:ILE:CD1	1.90	0.62
2:M:196:LEU:HD23	2:M:200:LEU:CD2	2.29	0.62
2:M:697:ARG:HD2	2:M:699:PHE:CE1	2.35	0.62
4:O:68:LEU:HD12	4:O:73:LEU:HD13	1.81	0.62
1:B:40:LEU:O	1:B:44:LEU:HG	1.99	0.62
2:C:224:GLU:HB3	2:C:228:ALA:H	1.63	0.62
2:C:455:LEU:CD1	2:C:456:ALA:O	2.48	0.62
2:C:762:LYS:CG	2:C:763:GLY:H	2.12	0.62
2:C:946:ARG:HB3	2:C:946:ARG:HH11	1.65	0.62
2:C:1081:VAL:HG21	2:C:1111:ILE:CG2	2.09	0.62
2:C:1105:LYS:NZ	2:C:1107:ASN:HB2	2.13	0.62
3:D:415:VAL:HG13	3:D:419:ASP:HB2	1.82	0.62
3:D:1123:PHE:HE2	3:D:1184:GLN:CA	2.03	0.62
3:D:1234:THR:HB	3:D:1235:GLN:OE1	2.00	0.62
3:D:1481:VAL:HG12	4:E:21:VAL:HG21	1.82	0.62
1:F:69:PRO:O	1:F:71:VAL:HG23	2.00	0.62
1:G:41:ARG:NH1	1:G:177:VAL:HG23	2.15	0.62
1:G:55:SER:OG	1:G:158:ILE:HB	1.97	0.62
2:H:237:ARG:HH11	2:H:237:ARG:HG3	1.65	0.62
2:H:611:ILE:HD11	2:H:625:LEU:HD11	1.80	0.62
2:H:897:LEU:HD21	2:H:921:ALA:CA	2.30	0.62
2:H:939:ARG:HD3	2:H:982:PRO:HD3	1.82	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1091:GLU:OE1	3:I:613:ARG:HG2	1.99	0.62
2:H:1102:LEU:HB2	3:I:7:LYS:O	2.00	0.62
3:I:141:ILE:HG23	3:I:142:LEU:O	1.99	0.62
3:I:868:TYR:CE1	3:I:869:MET:HE2	2.32	0.62
3:I:1310:ARG:O	3:I:1327:ARG:HG3	1.99	0.62
1:L:101:LEU:HD12	1:L:114:PHE:N	2.14	0.62
2:M:332:ARG:CD	2:M:464:LEU:O	2.45	0.62
3:N:206:ARG:CG	3:N:392:SER:H	2.12	0.62
7:Y:26:LEU:HD11	7:Y:55:LYS:HE2	1.80	0.62
7:Y:92:GLU:HA	7:Y:98:GLU:O	1.98	0.62
7:Y:125:MET:HA	7:Y:140:LEU:CD1	2.29	0.62
7:Z:85:LEU:CD2	7:Z:104:VAL:HG12	2.29	0.62
2:C:47:ALA:HB1	2:C:345:ARG:HB3	1.82	0.62
2:C:139:GLN:HE22	2:C:415:PRO:CD	2.12	0.62
2:C:170:PRO:HD3	2:C:263:ASP:HB3	1.81	0.62
2:C:650:ARG:HG2	2:C:653:ASP:OD2	1.99	0.62
2:C:1032:PHE:CD2	2:C:1037:VAL:HG22	2.35	0.62
3:D:204:LEU:HD23	3:D:394:LEU:CD1	2.29	0.62
3:D:209:ARG:CB	3:D:389:GLU:CB	2.77	0.62
3:D:639:LEU:N	3:D:729:HIS:CD2	2.67	0.62
2:H:88:LEU:HD13	2:H:89:THR:H	1.64	0.62
2:H:352:ALA:CA	2:H:355:VAL:HG12	2.30	0.62
2:H:1049:LEU:O	2:H:1053:LEU:HG	2.00	0.62
3:I:458:ALA:HB2	3:I:575:GLN:NE2	2.14	0.62
3:I:1326:THR:CG2	3:I:1327:ARG:N	2.63	0.62
3:I:1369:GLU:HA	3:I:1372:VAL:CG1	2.29	0.62
2:M:54:ILE:HG21	2:M:66:LEU:HB3	1.82	0.62
2:M:524:VAL:HG12	2:M:525:SER:H	1.63	0.62
3:N:988:ARG:HD3	3:N:992:ILE:HD11	1.81	0.62
7:X:26:LEU:HD13	7:X:58:ILE:CG2	2.28	0.62
7:Z:85:LEU:HD22	7:Z:104:VAL:HG12	1.80	0.62
1:A:47:SER:HG	1:B:32:PHE:HZ	1.48	0.62
2:C:144:PRO:O	2:C:276:LYS:NZ	2.26	0.62
2:C:683:ASN:HB2	2:C:872:ASN:HB2	1.82	0.62
3:D:135:LEU:HD21	3:D:137:PRO:O	2.00	0.62
3:D:835:SER:H	3:D:838:ARG:CD	2.13	0.62
3:D:996:TRP:HA	3:D:999:THR:CG2	2.30	0.62
3:D:1041:LEU:O	3:D:1041:LEU:HD23	1.99	0.62
3:D:1194:CYS:HB3	3:D:1373:ARG:NH1	2.14	0.62
1:F:226:SER:O	1:F:228:PRO:HD3	1.99	0.62
2:H:524:VAL:CG1	2:H:525:SER:N	2.63	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:816:LYS:HB2	2:H:819:VAL:HG21	1.82	0.62
2:H:889:HIS:CD2	2:H:970:GLY:HA3	2.34	0.62
3:I:126:VAL:O	3:I:130:SER:HB3	1.99	0.62
3:I:911:LEU:O	3:I:915:VAL:HG23	1.98	0.62
3:I:1189:ARG:HD2	3:I:1204:CYS:SG	2.39	0.62
2:M:52:PHE:CE1	2:M:67:ASP:C	2.78	0.62
2:M:211:LEU:HD23	2:M:221:LEU:HD21	1.81	0.62
2:M:304:LEU:CD2	2:M:305:PRO:HD3	2.30	0.62
2:M:305:PRO:HA	2:M:308:ARG:CB	2.30	0.62
2:M:537:LYS:HA	2:M:545:ASN:HD21	1.65	0.62
2:M:676:ILE:HG23	2:M:988:VAL:HG13	1.81	0.62
2:M:679:PHE:O	2:M:680:ASP:C	2.43	0.62
3:N:1401:GLU:OE2	3:N:1402:ALA:N	2.32	0.62
1:B:27:PRO:C	1:B:28:LEU:HD23	2.25	0.62
1:B:65:PHE:N	1:B:65:PHE:CD1	2.67	0.62
2:C:437:ARG:C	2:C:438:ILE:HD12	2.25	0.62
3:D:54:LYS:CD	3:D:55:ASP:H	2.12	0.62
3:D:1404:ASN:CG	3:D:1408:ILE:HD13	2.24	0.62
1:F:36:LEU:C	1:F:39:PRO:HD2	2.24	0.62
1:F:102:LYS:HB3	1:F:139:ASN:CG	2.24	0.62
2:H:146:VAL:HG13	2:H:161:SER:O	1.99	0.62
2:H:361:MET:HE1	3:N:1314:LYS:HZ3	1.65	0.62
2:H:630:ARG:HH21	2:H:706:GLU:HA	1.65	0.62
3:I:58:CYS:HB2	3:I:78:VAL:HB	1.82	0.62
3:I:982:PHE:HE1	7:Y:117:MET:HE2	1.65	0.62
3:I:1112:CYS:HB2	3:I:1195:GLN:OE1	1.99	0.62
3:I:1112:CYS:HB2	3:I:1195:GLN:CG	2.30	0.62
2:M:135:VAL:HG11	2:M:407:LYS:HA	1.82	0.62
2:M:455:LEU:CD1	2:M:456:ALA:O	2.48	0.62
2:M:602:GLU:HB2	2:M:648:ARG:NH2	2.14	0.62
2:M:693:GLU:HA	2:M:696:LYS:HD2	1.82	0.62
2:M:1061:GLU:OE2	3:N:82:LYS:HD3	1.99	0.62
7:Z:82:VAL:HG22	7:Z:133:ARG:HB2	1.82	0.62
2:C:873:PRO:HB3	3:D:949:ILE:CD1	2.30	0.62
3:D:367:ILE:HB	3:D:377:VAL:CG1	2.30	0.62
3:D:546:ARG:NH1	3:D:546:ARG:HG2	2.15	0.62
3:D:701:LEU:HD11	3:D:750:PRO:HG3	1.80	0.62
3:D:1107:VAL:HG12	3:D:1217:ILE:HA	1.82	0.62
3:D:1128:VAL:O	3:D:1128:VAL:CG1	2.48	0.62
3:D:1280:VAL:HA	3:D:1318:TYR:HA	1.81	0.62
1:F:11:PHE:HE1	1:F:23:PHE:HB3	1.65	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:23:PHE:O	1:G:196:THR:HA	2.00	0.62
2:H:251:ASP:C	2:H:253:ALA:H	2.08	0.62
2:H:342:ASP:O	2:H:345:ARG:HG2	1.99	0.62
2:H:676:ILE:HD12	2:H:871:LEU:O	1.99	0.62
3:I:171:LEU:HD23	3:I:172:PRO:HD2	1.82	0.62
3:I:699:VAL:H	3:I:756:GLN:HE22	1.48	0.62
3:I:1488:ASP:O	3:I:1490:LYS:N	2.32	0.62
2:M:118:ILE:HG22	2:M:382:ILE:HD13	1.80	0.62
2:M:136:ILE:HD12	2:M:136:ILE:N	2.15	0.62
2:M:447:ALA:HA	3:N:1085:ALA:HB1	1.82	0.62
2:M:677:MET:HA	2:M:873:PRO:HG2	1.82	0.62
3:N:613:ARG:NH1	3:N:613:ARG:O	2.32	0.62
3:N:1031:ASN:HB3	3:N:1034:GLN:HG3	1.82	0.62
7:Y:75:LEU:HB3	7:Y:77:GLU:OE2	2.00	0.62
1:A:186:LEU:HD23	1:A:187:GLY:N	2.15	0.61
1:B:81:ASN:O	1:B:84:GLU:HB3	1.99	0.61
2:C:56:GLU:CD	2:C:56:GLU:C	2.68	0.61
2:C:412:ALA:O	2:C:419:THR:HG23	1.99	0.61
2:C:838:LYS:HG3	2:C:838:LYS:O	1.98	0.61
2:C:983:ILE:O	2:C:983:ILE:HG22	1.98	0.61
3:D:115:LEU:HD23	3:D:115:LEU:O	1.99	0.61
3:D:204:LEU:HD13	3:D:441:ARG:HH12	1.64	0.61
3:D:481:MET:HE1	3:D:496:LEU:HD23	1.82	0.61
1:G:176:ARG:HD3	3:I:884:ARG:NH2	2.15	0.61
2:H:496:ILE:O	2:H:515:ALA:HB1	1.99	0.61
3:I:704:ARG:CB	3:I:736:PHE:HB3	2.28	0.61
3:I:798:GLU:CG	3:I:828:LYS:HE3	2.29	0.61
3:I:1111:ASP:OD1	3:I:1203:LYS:HD2	2.00	0.61
2:M:187:ASN:O	2:M:188:LYS:HB3	2.00	0.61
2:M:474:VAL:HG23	2:M:478:VAL:C	2.24	0.61
2:M:487:THR:HB	2:M:490:GLU:HG3	1.82	0.61
3:N:1040:GLY:O	3:N:1060:SER:HB3	1.99	0.61
3:N:1098:LEU:HD23	3:N:1229:ILE:HB	1.81	0.61
3:N:1283:ILE:HD12	3:N:1292:VAL:HG22	1.81	0.61
4:O:41:GLU:N	4:O:42:PRO:CD	2.63	0.61
1:B:154:GLU:OE2	3:D:840:LYS:CE	2.47	0.61
2:C:159:ILE:HD12	2:C:159:ILE:O	2.01	0.61
2:C:571:LEU:HD11	2:C:700:TYR:HA	1.82	0.61
2:C:897:LEU:HD21	2:C:921:ALA:HA	1.82	0.61
3:D:486:ARG:HA	3:D:489:ARG:HD3	1.80	0.61
3:D:671:LYS:O	3:D:675:ARG:HG3	2.00	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:809:PRO:CB	3:D:812:ALA:HB2	2.14	0.61
3:D:907:GLU:CD	3:D:909:ASN:HD22	2.06	0.61
2:H:154:ARG:HH22	2:H:178:PRO:CD	2.12	0.61
2:H:176:VAL:HG12	2:H:182:VAL:HG13	1.82	0.61
2:H:689:VAL:HG13	2:H:853:LEU:HD13	1.82	0.61
3:I:643:GLY:O	3:I:726:ILE:HG23	2.00	0.61
3:I:1003:VAL:O	3:I:1006:ALA:HB3	1.99	0.61
3:I:1263:PHE:CE2	3:I:1371:VAL:HG11	2.36	0.61
2:M:237:ARG:HG3	2:M:237:ARG:NH1	2.13	0.61
2:M:257:VAL:HG12	2:M:263:ASP:CG	2.25	0.61
2:M:911:GLU:HB3	2:M:912:PRO:HD3	1.82	0.61
2:C:880:MET:HB3	3:D:1061:PHE:CE2	2.35	0.61
3:D:156:GLU:HB2	3:D:157:GLU:OE2	1.99	0.61
3:D:180:LYS:HZ1	3:D:387:LEU:H	1.45	0.61
3:D:546:ARG:HG2	3:D:546:ARG:HH11	1.65	0.61
3:D:996:TRP:HE3	3:D:999:THR:HG21	1.65	0.61
1:G:81:ASN:O	1:G:84:GLU:HB3	2.01	0.61
2:H:775:ARG:NH1	2:H:782:ALA:HB1	2.14	0.61
2:H:893:ALA:HB1	2:H:897:LEU:HD11	1.81	0.61
3:I:543:LEU:CD2	3:I:580:ALA:HB1	2.22	0.61
3:I:1112:CYS:CB	3:I:1195:GLN:HG2	2.29	0.61
3:I:1459:LEU:HD12	3:I:1459:LEU:N	2.15	0.61
1:K:142:VAL:HG23	1:K:142:VAL:O	2.01	0.61
1:K:194:LYS:NZ	1:K:196:THR:HG21	2.14	0.61
1:L:123:MET:C	1:L:125:PRO:HD3	2.26	0.61
1:L:179:PHE:HD2	1:L:179:PHE:N	1.98	0.61
2:M:183:SER:C	2:M:193:LEU:HD11	2.24	0.61
2:M:374:ASN:HD22	2:M:376:ARG:H	1.48	0.61
2:M:516:ARG:NE	3:N:1068:LEU:HD13	2.15	0.61
3:N:1112:CYS:HB2	3:N:1195:GLN:HG2	1.83	0.61
3:N:1448:THR:O	3:N:1451:ALA:HB3	2.00	0.61
1:B:48:ILE:HD12	1:B:48:ILE:N	2.15	0.61
2:C:431:HIS:CD2	2:C:433:THR:H	2.19	0.61
2:C:524:VAL:HG12	2:C:525:SER:H	1.65	0.61
2:C:918:LEU:HD23	2:C:968:LEU:HA	1.81	0.61
3:D:142:LEU:HD22	3:D:145:VAL:C	2.25	0.61
3:D:203:ALA:HB1	3:D:393:ILE:HG21	1.82	0.61
3:D:650:LEU:HD13	3:D:688:TRP:HZ3	1.64	0.61
3:D:800:LYS:HD2	3:D:804:LEU:CD2	2.30	0.61
3:D:1435:LEU:HD13	3:D:1457:ASP:CG	2.25	0.61
1:F:48:ILE:HG23	1:F:213:GLN:NE2	2.15	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:213:GLN:O	1:F:217:ILE:HG12	2.00	0.61
2:H:187:ASN:O	2:H:187:ASN:CG	2.44	0.61
2:H:544:THR:O	2:H:547:ILE:CD1	2.41	0.61
2:H:861:LEU:HA	2:H:974:LEU:HD12	1.82	0.61
3:I:100:ALA:HB2	3:I:128:TYR:OH	2.00	0.61
3:I:107:ASP:O	3:I:108:VAL:C	2.44	0.61
3:I:616:GLN:HE22	3:I:621:LYS:HG3	1.66	0.61
3:I:704:ARG:HD3	3:I:738:ALA:HB2	1.80	0.61
3:I:711:LEU:HD12	3:I:778:LEU:HD23	1.81	0.61
3:I:829:VAL:HG12	3:I:830:ALA:N	2.15	0.61
3:I:906:GLN:HB3	3:I:911:LEU:CD1	2.28	0.61
3:I:1123:PHE:CE2	3:I:1184:GLN:HA	2.33	0.61
3:I:1399:ASP:O	3:I:1403:LEU:HB2	2.01	0.61
1:K:168:ASP:CG	2:M:832:LYS:HZ1	2.08	0.61
1:L:61:VAL:CG2	1:L:68:ILE:HD11	2.30	0.61
2:M:28:ARG:HG3	2:M:40:GLU:OE1	2.00	0.61
2:M:100:LEU:HD23	2:M:367:LEU:O	2.00	0.61
2:M:602:GLU:HG3	2:M:603:VAL:N	2.14	0.61
3:N:729:HIS:CD2	3:N:731:LEU:N	2.65	0.61
3:N:982:PHE:CD2	3:N:983:LEU:N	2.68	0.61
2:C:965:GLU:HA	2:C:968:LEU:HD12	1.81	0.61
3:D:433:GLY:HA3	3:D:447:VAL:O	2.00	0.61
3:D:1459:LEU:CD2	3:D:1468:LEU:HD12	2.31	0.61
1:G:206:THR:HG22	1:G:209:GLU:CG	2.31	0.61
2:H:224:GLU:OE1	2:H:227:PHE:CD1	2.47	0.61
2:H:304:LEU:HD23	2:H:305:PRO:HD3	1.80	0.61
2:H:383:ARG:HB2	2:H:383:ARG:NH1	2.07	0.61
2:H:806:LEU:HB2	2:H:822:VAL:HG22	1.80	0.61
2:H:926:PHE:O	2:H:930:LYS:HG3	1.99	0.61
3:I:737:ASN:HD21	7:Y:40:SER:HB3	1.65	0.61
2:M:293:PHE:C	2:M:293:PHE:CD1	2.78	0.61
2:M:759:THR:HB	2:M:785:VAL:HG22	1.83	0.61
2:M:1063:ARG:HD3	2:M:1063:ARG:C	2.26	0.61
3:N:206:ARG:HB3	3:N:391:ALA:H	1.64	0.61
3:N:356:PRO:HB3	3:N:441:ARG:CA	2.28	0.61
3:N:711:LEU:HD12	3:N:778:LEU:HD23	1.81	0.61
3:N:1066:THR:CG2	3:N:1069:GLU:HB2	2.28	0.61
1:A:9:PRO:HD2	1:B:224:TYR:CD1	2.36	0.61
2:C:285:LEU:HG	2:C:285:LEU:O	1.99	0.61
2:C:931:GLY:C	2:C:933:GLY:N	2.57	0.61
3:D:141:ILE:HG21	3:D:448:GLU:OE1	2.00	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1025:GLN:HE21	3:D:1025:GLN:CA	2.14	0.61
3:D:1366:LYS:HA	3:D:1369:GLU:OE1	2.00	0.61
3:D:1485:GLN:O	4:E:75:PHE:HA	1.99	0.61
2:H:858:MET:HG3	2:H:859:PRO:CD	2.28	0.61
3:I:1401:GLU:OE2	3:I:1415:VAL:HG21	2.00	0.61
3:I:1403:LEU:O	3:I:1407:LEU:HD13	1.98	0.61
2:M:88:LEU:HD22	2:M:814:GLU:CD	2.26	0.61
2:M:141:HIS:HB3	2:M:418:LEU:HB3	1.83	0.61
2:M:442:GLU:CG	2:M:454:SER:HB2	2.30	0.61
2:M:564:MET:HE1	2:M:846:LYS:HE2	1.81	0.61
3:N:771:SER:HB3	3:N:778:LEU:CD1	2.26	0.61
1:B:179:PHE:H	1:B:179:PHE:HD2	1.48	0.61
2:C:126:SER:HB2	2:C:395:LYS:NZ	2.15	0.61
2:C:135:VAL:HG11	2:C:407:LYS:HA	1.81	0.61
2:C:184:MET:HE2	2:C:186:VAL:HG13	1.83	0.61
2:C:987:ILE:HD11	3:D:946:GLY:HA2	1.83	0.61
3:D:1128:VAL:C	3:D:1129:THR:HG22	2.26	0.61
3:D:1330:ILE:N	3:D:1330:ILE:CD1	2.64	0.61
1:F:62:LEU:HD22	2:H:745:ILE:HG22	1.83	0.61
1:G:65:PHE:CD1	1:G:65:PHE:N	2.69	0.61
2:H:367:LEU:HB3	2:H:371:LYS:HE2	1.81	0.61
2:H:389:SER:C	2:H:391:LEU:H	2.08	0.61
2:H:474:VAL:HG23	2:H:478:VAL:O	1.99	0.61
2:H:612:VAL:HG13	2:H:621:VAL:O	2.00	0.61
3:I:857:ILE:N	3:I:857:ILE:CD1	2.63	0.61
3:I:1211:MET:CG	3:I:1212:ALA:H	1.88	0.61
2:M:218:VAL:CG2	2:M:311:PHE:HE1	2.13	0.61
2:M:585:GLU:HG2	2:M:665:PHE:CD2	2.36	0.61
2:M:599:GLU:HG3	2:M:600:ASP:H	1.65	0.61
3:N:210:ARG:HG2	3:N:344:ASP:OD1	2.00	0.61
3:N:1488:ASP:O	3:N:1490:LYS:N	2.33	0.61
2:C:4:LYS:HZ3	2:C:917:LEU:HD21	1.66	0.61
2:C:957:LYS:HD2	2:C:961:GLU:HB3	1.83	0.61
2:C:1005:MET:SD	3:D:724:GLN:HB3	2.40	0.61
3:D:134:VAL:CG2	3:D:460:ALA:HB1	2.27	0.61
3:D:516:ALA:O	3:D:518:PRO:HD3	2.00	0.61
3:D:584:ASN:HD21	3:D:590:PRO:HD2	1.66	0.61
3:D:1317:ASP:OD1	3:D:1318:TYR:N	2.32	0.61
1:F:28:LEU:HB2	1:F:193:ASP:HB2	1.82	0.61
1:F:165:ILE:HD12	1:F:165:ILE:O	2.01	0.61
1:G:35:THR:O	1:G:39:PRO:HG2	2.01	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:9:ILE:HG12	2:H:907:ASP:CG	2.25	0.61
2:H:293:PHE:CD1	2:H:293:PHE:C	2.77	0.61
2:H:553:ASP:OD1	2:H:843:HIS:ND1	2.33	0.61
3:I:206:ARG:NH2	3:I:441:ARG:HH21	1.99	0.61
3:I:1305:LEU:CD1	3:I:1311:LEU:HD22	2.27	0.61
1:K:23:PHE:CE2	1:K:199:ILE:HD11	2.36	0.61
1:L:101:LEU:HD23	1:L:101:LEU:C	2.25	0.61
2:M:195:LEU:HD12	2:M:195:LEU:O	2.01	0.61
2:M:541:SER:OG	2:M:542:VAL:N	2.31	0.61
3:N:481:MET:SD	3:N:1388:ARG:HG2	2.40	0.61
3:N:917:GLN:HA	3:N:920:LEU:HD12	1.82	0.61
7:Y:75:LEU:HD22	7:Y:77:GLU:OE2	2.01	0.61
7:Z:6:LYS:NZ	7:Z:85:LEU:HG	2.16	0.61
1:A:98:THR:CG2	1:A:141:GLU:HG3	2.30	0.61
1:B:56:VAL:O	1:B:164:ALA:HB1	2.00	0.61
2:C:3:ILE:HD12	2:C:3:ILE:N	2.15	0.61
2:C:896:PHE:O	2:C:924:VAL:HG11	2.01	0.61
3:D:1128:VAL:HB	3:D:1133:ARG:NH2	2.16	0.61
3:D:1253:THR:O	3:D:1258:ARG:HB2	2.00	0.61
3:D:1481:VAL:CG1	4:E:18:ARG:HD3	2.30	0.61
1:G:91:ASN:N	1:G:91:ASN:HD22	1.98	0.61
2:H:6:PHE:CZ	2:H:901:TYR:HD2	2.19	0.61
2:H:352:ALA:O	2:H:355:VAL:HG12	2.01	0.61
2:H:857:ASP:HB2	2:H:978:ARG:CG	2.20	0.61
2:H:1013:TYR:OH	2:H:1063:ARG:HG3	2.00	0.61
3:I:1336:LEU:HD11	3:I:1341:PRO:HG3	1.82	0.61
2:M:195:LEU:HD21	2:M:241:LEU:HD12	1.83	0.61
2:M:218:VAL:HG22	2:M:311:PHE:HE1	1.65	0.61
2:M:831:ARG:NH1	2:M:1002:GLU:HB2	2.15	0.61
3:N:519:VAL:HG13	3:N:544:TYR:CE1	2.35	0.61
3:N:1232:PRO:HB2	3:N:1356:TYR:HE2	1.65	0.61
2:C:56:GLU:HB2	2:C:64:LEU:CD2	2.30	0.61
2:C:270:GLY:HA2	2:C:274:ARG:HD3	1.83	0.61
2:C:544:THR:O	2:C:547:ILE:CD1	2.44	0.61
2:C:569:VAL:HG12	2:C:996:LYS:O	2.00	0.61
2:C:906:PHE:CD1	3:D:1067:VAL:HG13	2.35	0.61
2:C:1058:ASP:OD2	2:C:1083:GLU:HB2	2.01	0.61
3:D:1084:THR:HG22	3:D:1087:ARG:NH1	2.15	0.61
1:G:213:GLN:O	1:G:217:ILE:HG13	2.00	0.61
2:H:47:ALA:HB1	2:H:345:ARG:HB3	1.83	0.61
2:H:896:PHE:CE2	2:H:925:TYR:HB2	2.36	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:136:ILE:CG2	2:M:336:VAL:HG13	2.30	0.61
2:M:650:ARG:HG2	2:M:653:ASP:OD2	2.00	0.61
3:N:166:GLN:HG2	3:N:396:VAL:CG1	2.31	0.61
3:N:400:VAL:CG2	3:N:443:VAL:HG21	2.29	0.61
3:N:806:PHE:CE1	3:N:813:LEU:CB	2.81	0.61
3:N:925:GLU:O	3:N:928:ALA:HB3	2.01	0.61
1:A:115:LEU:HD22	1:F:161:ARG:HH22	1.66	0.60
2:C:439:CYS:HB2	2:C:541:SER:HB2	1.82	0.60
2:C:500:ASN:HD22	2:C:500:ASN:N	1.99	0.60
3:D:496:LEU:HD12	3:D:496:LEU:O	1.99	0.60
3:D:963:TYR:CD2	3:D:1002:LYS:HD3	2.35	0.60
2:H:266:ARG:C	2:H:288:ARG:HD3	2.26	0.60
2:H:679:PHE:HB2	2:H:683:ASN:ND2	2.15	0.60
2:H:727:PRO:HD2	2:H:787:ASP:HB2	1.82	0.60
2:H:805:ARG:HG2	2:H:823:VAL:HG22	1.82	0.60
3:I:12:LEU:HD12	3:I:12:LEU:H	1.64	0.60
3:I:141:ILE:HG22	3:I:162:ARG:NH1	2.15	0.60
2:M:428:ARG:CZ	2:M:451:LEU:HD11	2.32	0.60
2:M:498:GLN:CA	2:M:498:GLN:HE21	2.13	0.60
3:N:160:GLU:HG2	3:N:165:LYS:CB	2.31	0.60
7:Z:115:THR:CB	7:Z:116:PRO:HD3	2.31	0.60
1:B:115:LEU:HD12	1:B:115:LEU:O	2.00	0.60
2:C:1090:LYS:HE3	3:D:90:MET:SD	2.40	0.60
3:D:1094:LEU:CD1	3:D:1098:LEU:HD11	2.31	0.60
1:F:26:GLU:HG2	1:F:27:PRO:CA	2.32	0.60
2:H:720:GLU:HA	2:H:759:THR:O	2.01	0.60
2:H:1051:GLU:OE1	2:H:1056:LYS:HE3	2.02	0.60
3:I:18:ILE:CG2	3:I:518:PRO:HG3	2.31	0.60
3:I:53:ILE:HA	3:I:86:ARG:HH11	1.66	0.60
3:I:1263:PHE:HB3	3:I:1424:VAL:HG11	1.82	0.60
3:I:1453:ALA:O	3:I:1455:LYS:N	2.33	0.60
2:M:64:LEU:HD12	2:M:100:LEU:CD1	2.31	0.60
2:M:1004:LYS:CD	3:N:744:GLN:NE2	2.59	0.60
3:N:365:ASP:O	3:N:379:ALA:HB2	2.01	0.60
3:N:642:CYS:HB3	3:N:716:PHE:CB	2.31	0.60
4:O:68:LEU:HA	4:O:73:LEU:HD13	1.83	0.60
2:C:139:GLN:O	2:C:334:ARG:HG3	2.02	0.60
2:C:239:PHE:CE1	2:C:252:LYS:HA	2.35	0.60
2:C:1005:MET:SD	3:D:724:GLN:OE1	2.59	0.60
3:D:26:VAL:HG23	3:D:26:VAL:O	2.01	0.60
3:D:623:VAL:HG12	3:D:624:ASP:O	2.01	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1114:THR:HG23	3:D:1114:THR:O	2.01	0.60
3:D:1381:VAL:CG2	3:D:1391:GLU:HB2	2.31	0.60
1:F:62:LEU:HD23	2:H:745:ILE:O	2.02	0.60
1:G:44:LEU:CD2	1:G:48:ILE:HD11	2.31	0.60
1:G:52:ALA:HB1	1:G:170:VAL:H	1.66	0.60
2:H:110:GLU:OE1	2:H:369:PRO:HB3	2.01	0.60
2:H:162:ILE:O	2:H:164:PRO:HD3	2.02	0.60
2:H:267:TYR:CD1	2:H:272:ALA:HB1	2.36	0.60
2:H:631:SER:HB3	2:H:637:LEU:HD11	1.83	0.60
2:H:679:PHE:CB	2:H:683:ASN:HD21	2.14	0.60
2:H:872:ASN:ND2	2:H:874:LEU:HB2	2.17	0.60
3:I:163:TYR:HB3	2:M:209:ARG:NH2	2.16	0.60
3:I:1194:CYS:SG	3:I:1200:VAL:HA	2.41	0.60
3:I:1352:ILE:O	3:I:1355:VAL:HG23	2.00	0.60
2:M:430:VAL:O	3:N:1075:HIS:CE1	2.54	0.60
3:N:501:ALA:CB	3:N:1452:ILE:HG22	2.31	0.60
3:N:661:MET:SD	3:N:687:VAL:HG13	2.41	0.60
3:N:860:LEU:HD22	3:N:878:GLY:CA	2.30	0.60
3:N:1114:THR:CG2	3:N:1195:GLN:HB3	2.31	0.60
4:O:21:VAL:O	4:O:25:LYS:HG3	2.01	0.60
1:A:35:THR:O	1:A:39:PRO:HG2	2.01	0.60
1:B:52:ALA:HB1	1:B:170:VAL:H	1.66	0.60
2:C:221:LEU:C	2:C:221:LEU:HD12	2.26	0.60
2:C:270:GLY:HA2	2:C:274:ARG:CD	2.31	0.60
2:C:477:GLY:HA2	2:C:508:ILE:CD1	2.31	0.60
2:C:1049:LEU:O	2:C:1053:LEU:HG	2.01	0.60
3:D:638:LYS:HD3	3:D:932:ASP:CG	2.26	0.60
3:D:743:ASP:OD1	6:Q:10:G:O2'	2.14	0.60
3:D:849:ALA:O	3:D:853:VAL:HG23	2.01	0.60
3:D:955:VAL:O	3:D:1039:CYS:HB3	2.01	0.60
1:G:56:VAL:HG12	1:G:57:TYR:H	1.65	0.60
1:G:115:LEU:HD12	1:G:115:LEU:O	2.01	0.60
2:H:218:VAL:HG23	2:H:311:PHE:CE1	2.36	0.60
2:H:431:HIS:CD2	2:H:433:THR:OG1	2.55	0.60
2:H:515:ALA:O	2:H:516:ARG:HD3	2.01	0.60
2:H:681:GLY:C	3:I:635:PRO:HG3	2.26	0.60
2:H:838:LYS:C	2:H:839:LEU:HD23	2.26	0.60
2:H:906:PHE:CE1	3:I:1067:VAL:HA	2.37	0.60
3:I:127:LEU:C	3:I:127:LEU:CD1	2.74	0.60
3:I:452:ILE:HD13	3:I:452:ILE:C	2.26	0.60
4:J:48:MET:N	4:J:54:LEU:HB2	2.16	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:123:MET:O	1:K:125:PRO:HD3	2.01	0.60
3:N:115:LEU:C	3:N:115:LEU:HD23	2.26	0.60
3:N:353:VAL:HG12	3:N:368:VAL:HG22	1.83	0.60
3:N:982:PHE:CE1	7:Z:112:VAL:HG22	2.36	0.60
3:N:1209:LEU:HD11	4:O:16:LYS:HD2	1.82	0.60
3:N:1452:ILE:HD12	3:N:1452:ILE:H	1.67	0.60
1:B:86:VAL:O	1:B:86:VAL:HG13	2.01	0.60
3:D:400:VAL:O	3:D:400:VAL:HG13	2.02	0.60
3:D:471:GLU:O	3:D:475:LYS:HG3	2.02	0.60
3:D:850:LEU:HD12	3:D:850:LEU:N	2.11	0.60
2:H:626:ARG:CB	2:H:639:GLN:HE21	2.15	0.60
3:I:147:VAL:HG23	3:I:162:ARG:NH2	2.16	0.60
3:I:1173:LEU:HD12	3:I:1176:LYS:NZ	2.17	0.60
3:I:1280:VAL:HG22	3:I:1295:GLU:O	2.01	0.60
3:I:1434:TRP:NE1	3:I:1435:LEU:HD12	2.16	0.60
4:J:38:THR:OG1	4:J:39:VAL:N	2.34	0.60
1:K:212:ASN:O	1:K:215:VAL:HB	2.01	0.60
2:M:239:PHE:CE1	2:M:252:LYS:HA	2.36	0.60
3:N:57:GLU:HG2	3:N:58:CYS:N	2.17	0.60
3:N:209:ARG:O	3:N:346:ARG:HA	2.02	0.60
3:N:1209:LEU:HD21	4:O:16:LYS:HZ1	1.67	0.60
3:N:1379:VAL:HG12	3:N:1419:PRO:CA	2.21	0.60
4:O:68:LEU:HA	4:O:73:LEU:CD1	2.31	0.60
2:C:90:TYR:CD1	2:C:120:LEU:HB2	2.37	0.60
2:C:435:TYR:HA	3:D:1071:PHE:HE2	1.66	0.60
2:C:632:ASN:HB3	2:C:633:GLN:NE2	2.16	0.60
2:C:654:LEU:H	2:C:654:LEU:CD2	2.14	0.60
3:D:185:VAL:HG21	3:D:203:ALA:HB2	1.82	0.60
3:D:1107:VAL:O	3:D:1218:GLY:N	2.33	0.60
3:D:1435:LEU:HD13	3:D:1457:ASP:OD2	2.02	0.60
1:G:101:LEU:HD23	1:G:101:LEU:O	2.01	0.60
2:H:260:LEU:HB3	2:H:291:ALA:HB1	1.82	0.60
2:H:455:LEU:CD1	2:H:459:ALA:HB3	2.28	0.60
2:H:524:VAL:CG1	2:H:525:SER:H	2.15	0.60
2:H:569:VAL:HG23	2:H:570:PRO:HD2	1.83	0.60
2:H:773:LEU:O	2:H:777:ILE:HG12	2.01	0.60
2:H:1084:SER:O	2:H:1087:VAL:HG12	2.01	0.60
2:M:129:ILE:HG22	2:M:130:ASN:N	2.16	0.60
2:M:391:LEU:HD23	2:M:391:LEU:C	2.27	0.60
2:M:571:LEU:HD11	2:M:701:THR:N	2.16	0.60
2:M:876:VAL:N	2:M:877:PRO:HD2	2.17	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:525:ARG:HB2	3:N:538:SER:HB3	1.84	0.60
3:N:1094:LEU:CD1	3:N:1098:LEU:HD13	2.31	0.60
4:O:10:PHE:CE1	4:O:16:LYS:HG3	2.36	0.60
7:Y:115:THR:OG1	7:Y:116:PRO:HD3	2.01	0.60
2:C:503:LEU:HD23	2:C:507:ARG:O	2.01	0.60
3:D:567:ILE:O	3:D:571:LYS:HG2	2.00	0.60
3:D:600:LEU:H	3:D:600:LEU:HD12	1.65	0.60
3:D:864:VAL:HG12	3:D:865:THR:N	2.17	0.60
3:D:1094:LEU:O	3:D:1098:LEU:HD13	2.02	0.60
2:H:216:GLU:HG2	2:H:219:GLN:CD	2.27	0.60
2:H:275:TYR:HD2	2:H:276:LYS:HG3	1.66	0.60
3:I:809:PRO:CB	3:I:812:ALA:HB2	2.24	0.60
3:I:1123:PHE:CE2	3:I:1184:GLN:HG3	2.36	0.60
1:L:23:PHE:O	1:L:196:THR:HA	2.01	0.60
2:M:175:GLU:HG2	2:M:176:VAL:N	2.16	0.60
2:M:524:VAL:CG1	2:M:528:GLU:HB2	2.31	0.60
3:N:1114:THR:HG23	3:N:1114:THR:O	2.01	0.60
1:B:59:GLU:OE1	1:B:137:ARG:NH2	2.34	0.60
1:B:178:ALA:HB3	1:B:198:ARG:HG3	1.82	0.60
3:D:181:ASP:HA	3:D:205:TYR:HD2	1.64	0.60
3:D:474:GLU:O	3:D:478:LEU:HG	2.01	0.60
3:D:862:ASP:O	3:D:877:PRO:HD3	2.01	0.60
3:D:1102:THR:CA	3:D:1105:ILE:HD13	2.31	0.60
1:F:24:VAL:HA	1:F:196:THR:HG22	1.84	0.60
1:F:35:THR:O	1:F:39:PRO:HG2	2.02	0.60
2:H:129:ILE:HD11	2:H:386:PHE:HB3	1.82	0.60
2:H:184:MET:SD	2:H:191:PHE:HE1	2.25	0.60
2:H:726:ILE:HD12	2:H:726:ILE:N	2.17	0.60
3:I:163:TYR:HD1	2:M:209:ARG:NH2	1.99	0.60
3:I:789:LEU:O	3:I:792:ILE:HG23	2.01	0.60
2:M:64:LEU:HD12	2:M:100:LEU:HD13	1.84	0.60
2:M:523:ILE:C	2:M:523:ILE:HD13	2.26	0.60
3:N:638:LYS:HB2	3:N:641:GLN:OE1	2.02	0.60
3:N:810:GLU:O	3:N:813:LEU:HG	2.00	0.60
3:N:812:ALA:HB1	3:N:816:HIS:CD2	2.36	0.60
3:N:1018:ASN:HB3	3:N:1021:TYR:HB3	1.82	0.60
7:Z:57:ARG:O	7:Z:61:ARG:HG3	2.02	0.60
3:D:525:ARG:HB2	3:D:538:SER:CB	2.32	0.60
3:D:1091:SER:OG	5:P:19:DC:H6	1.83	0.60
1:G:202:ASP:OD1	1:G:204:SER:N	2.24	0.60
2:H:136:ILE:HG12	2:H:392:SER:OG	2.02	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:333:ILE:HD12	2:H:410:ILE:HD11	1.83	0.60
2:H:342:ASP:O	2:H:346:VAL:HG23	2.01	0.60
2:H:368:THR:CB	2:H:369:PRO:HD3	2.25	0.60
2:H:430:VAL:HG11	3:I:1074:SER:OG	2.02	0.60
2:H:545:ASN:HB3	2:H:583:LEU:HD22	1.84	0.60
3:I:53:ILE:HA	3:I:86:ARG:NH1	2.16	0.60
3:I:98:PRO:O	3:I:458:ALA:HB3	2.02	0.60
3:I:1098:LEU:HD21	3:I:1229:ILE:CB	2.30	0.60
2:M:831:ARG:CZ	2:M:1000:MET:SD	2.90	0.60
2:M:875:GLY:HA2	2:M:879:ARG:NH1	2.16	0.60
3:N:14:SER:O	3:N:18:ILE:HG13	2.02	0.60
3:N:1101:VAL:CG1	3:N:1424:VAL:HG23	2.31	0.60
1:B:76:VAL:HB	3:D:872:ARG:HH12	1.65	0.60
2:C:113:VAL:HG11	2:C:373:VAL:CB	2.32	0.60
2:C:598:GLU:O	2:C:651:LYS:HG3	2.02	0.60
2:C:1031:ARG:HH21	3:D:621:LYS:NZ	2.00	0.60
3:D:143:ASN:HA	3:D:161:LEU:CD2	2.32	0.60
1:G:20:TYR:HD2	1:G:21:GLY:H	1.49	0.60
2:H:69:LEU:CD1	2:H:109:LYS:HE3	2.30	0.60
2:H:74:GLY:O	2:H:76:PRO:HD3	2.02	0.60
2:H:237:ARG:HG3	2:H:237:ARG:NH1	2.17	0.60
2:H:266:ARG:CA	2:H:288:ARG:HD3	2.31	0.60
2:H:338:GLU:HA	2:H:341:THR:HG22	1.83	0.60
2:H:361:MET:HE1	3:N:1314:LYS:HZ2	1.66	0.60
2:H:606:VAL:HG11	2:H:643:VAL:O	2.01	0.60
3:I:54:LYS:HD2	3:I:55:ASP:H	1.65	0.60
3:I:143:ASN:HB3	3:I:161:LEU:HD21	1.83	0.60
3:I:1209:LEU:O	3:I:1210:SER:C	2.45	0.60
2:M:47:ALA:HB1	2:M:345:ARG:HB3	1.84	0.60
2:M:265:ARG:HB3	2:M:267:TYR:CZ	2.36	0.60
2:M:461:VAL:CG1	2:M:465:GLY:HA2	2.32	0.60
2:M:516:ARG:NH1	2:M:521:PRO:HB3	2.17	0.60
3:N:93:ILE:HD12	3:N:548:ILE:HG12	1.84	0.60
3:N:181:ASP:OD1	3:N:387:LEU:HD22	2.01	0.60
3:N:764:LEU:HD23	3:N:767:HIS:CE1	2.37	0.60
3:N:972:LEU:HG	3:N:976:GLN:NE2	2.15	0.60
3:N:1109:GLU:HG2	3:N:1201:CYS:CA	2.29	0.60
3:N:1288:GLU:HG3	3:N:1307:LYS:HE2	1.84	0.60
3:N:1434:TRP:CD1	3:N:1434:TRP:C	2.80	0.60
3:N:1465:ASN:HA	3:N:1468:LEU:HD23	1.82	0.60
4:O:19:LEU:O	4:O:23:VAL:HG23	2.02	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:368:THR:CB	2:C:369:PRO:CD	2.75	0.59
2:C:603:VAL:HG23	2:C:647:GLN:H	1.67	0.59
2:C:786:LYS:HG2	2:C:787:ASP:N	2.17	0.59
2:C:835:VAL:HG13	2:C:836:GLY:N	2.17	0.59
2:C:876:VAL:H	2:C:877:PRO:HD2	1.65	0.59
3:D:402:PRO:HA	3:D:443:VAL:HG23	1.82	0.59
3:D:434:ARG:HB3	3:D:447:VAL:CG2	2.32	0.59
3:D:881:LEU:HD21	3:D:941:PHE:CZ	2.37	0.59
3:D:1457:ASP:O	3:D:1459:LEU:HD12	2.01	0.59
4:E:58:PRO:HG2	4:E:59:ASN:N	2.16	0.59
1:F:49:PRO:O	1:F:173:PRO:HG2	2.02	0.59
2:H:21:ILE:HD12	2:H:21:ILE:N	2.11	0.59
2:H:204:GLN:NE2	2:H:228:ALA:HB1	2.17	0.59
3:I:1372:VAL:CA	3:I:1375:MET:HE3	2.24	0.59
3:I:1481:VAL:HG22	4:J:18:ARG:HE	1.66	0.59
1:K:30:ARG:HD3	1:K:191:ASP:HB2	1.84	0.59
2:M:9:ILE:HG12	2:M:907:ASP:CG	2.27	0.59
2:M:881:ASN:OD1	2:M:884:GLN:NE2	2.35	0.59
3:N:152:LEU:HD12	3:N:152:LEU:C	2.27	0.59
3:N:1047:LYS:HB3	3:N:1048:PRO:CD	2.32	0.59
7:Y:120:SER:HB2	7:Y:123:SER:HB2	1.83	0.59
2:C:22:GLN:HB3	2:C:121:MET:CE	2.31	0.59
2:C:281:LEU:HD11	2:C:306:THR:HA	1.82	0.59
2:C:316:GLY:C	2:C:318:PRO:HD3	2.27	0.59
2:C:687:ALA:HB1	2:C:850:ALA:HB2	1.85	0.59
2:C:1055:LEU:HD11	2:C:1076:VAL:HG21	1.84	0.59
3:D:486:ARG:HG3	3:D:489:ARG:NH1	2.17	0.59
3:D:676:MET:SD	3:D:684:LYS:HE3	2.41	0.59
3:D:711:LEU:HD12	3:D:778:LEU:HD23	1.83	0.59
3:D:771:SER:HB2	3:D:778:LEU:CD1	2.29	0.59
3:D:799:LYS:O	3:D:799:LYS:HD3	2.02	0.59
3:D:1257:PRO:HA	3:D:1260:ILE:HD12	1.84	0.59
1:F:188:GLN:NE2	1:F:188:GLN:N	2.41	0.59
2:H:119:PRO:HG2	2:H:386:PHE:CD2	2.36	0.59
2:H:122:THR:HG22	2:H:124:ASP:H	1.67	0.59
2:H:147:TYR:O	2:H:148:PHE:HD2	1.85	0.59
2:H:186:VAL:O	2:H:187:ASN:HB3	2.02	0.59
2:H:338:GLU:C	2:H:341:THR:HG22	2.27	0.59
2:H:636:ALA:O	2:H:637:LEU:HD23	2.03	0.59
3:I:465:LEU:HD13	3:I:510:GLU:HA	1.82	0.59
3:I:850:LEU:O	3:I:853:VAL:HB	2.01	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:1106:VAL:HG11	3:I:1474:ALA:CB	2.32	0.59
3:I:1280:VAL:HA	3:I:1318:TYR:HA	1.83	0.59
1:L:138:LEU:HD23	1:L:138:LEU:C	2.27	0.59
2:M:146:VAL:HG13	2:M:161:SER:O	2.03	0.59
2:M:182:VAL:C	2:M:193:LEU:HD13	2.26	0.59
2:M:269:LEU:HD23	2:M:269:LEU:C	2.27	0.59
2:M:455:LEU:HD12	2:M:455:LEU:C	2.27	0.59
2:M:498:GLN:HE21	2:M:498:GLN:HA	1.67	0.59
2:M:851:LYS:HG2	2:M:853:LEU:CD1	2.31	0.59
2:M:1082:PRO:C	2:M:1084:SER:N	2.59	0.59
3:N:143:ASN:HD21	3:N:145:VAL:HG12	1.65	0.59
3:N:480:GLU:O	3:N:484:PRO:HD2	2.03	0.59
3:N:666:ILE:HD12	3:N:686:GLU:OE2	2.03	0.59
3:N:833:GLU:O	3:N:834:THR:HG23	2.02	0.59
3:N:1040:GLY:O	3:N:1041:LEU:HB3	2.01	0.59
3:N:1165:TYR:N	3:N:1165:TYR:CD1	2.70	0.59
3:N:1272:ALA:HA	3:N:1326:THR:HB	1.83	0.59
3:N:1366:LYS:HA	3:N:1369:GLU:OE1	2.02	0.59
7:X:92:GLU:HA	7:X:98:GLU:O	2.00	0.59
1:A:47:SER:OG	1:B:32:PHE:HZ	1.85	0.59
2:C:274:ARG:O	2:C:277:ALA:HB3	2.01	0.59
2:C:285:LEU:O	2:C:285:LEU:CG	2.50	0.59
2:C:496:ILE:HA	2:C:531:PHE:O	2.02	0.59
3:D:7:LYS:HG2	3:D:1458:GLU:OE2	2.02	0.59
3:D:141:ILE:CG2	3:D:162:ARG:NH1	2.64	0.59
3:D:720:LEU:H	3:D:720:LEU:CD1	2.15	0.59
3:D:893:GLU:O	3:D:896:ALA:HB3	2.01	0.59
3:D:983:LEU:HD23	3:D:983:LEU:N	2.18	0.59
2:H:794:PRO:CG	2:H:1025:ALA:HA	2.32	0.59
2:H:1003:ASP:OD2	2:H:1003:ASP:O	2.20	0.59
3:I:396:VAL:HG23	3:I:398:ALA:HB3	1.83	0.59
3:I:1047:LYS:HB3	3:I:1048:PRO:HD2	1.85	0.59
2:M:578:VAL:HG23	2:M:579:VAL:HG12	1.84	0.59
2:M:603:VAL:HA	2:M:613:VAL:HG12	1.84	0.59
3:N:156:GLU:O	3:N:160:GLU:HB2	2.02	0.59
3:N:206:ARG:CG	3:N:391:ALA:HB3	2.32	0.59
3:N:868:TYR:CD1	3:N:869:MET:HG3	2.37	0.59
3:N:947:ILE:O	3:N:947:ILE:HD12	2.01	0.59
1:B:213:GLN:O	1:B:217:ILE:HG12	2.02	0.59
2:C:204:GLN:NE2	2:C:228:ALA:CB	2.65	0.59
2:C:338:GLU:HA	2:C:341:THR:HG22	1.83	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:838:LYS:NZ	2:C:846:LYS:HZ1	2.00	0.59
2:C:931:GLY:O	2:C:933:GLY:N	2.35	0.59
3:D:26:VAL:CG2	3:D:93:ILE:HG12	2.32	0.59
3:D:1024:ALA:HA	3:D:1029:ARG:O	2.02	0.59
3:D:1087:ARG:NH2	7:X:43:TYR:CZ	2.65	0.59
3:D:1169:ASP:O	3:D:1172:HIS:HB2	2.02	0.59
3:D:1363:LEU:HD23	3:D:1363:LEU:H	1.67	0.59
1:F:20:TYR:HD2	1:F:21:GLY:H	1.49	0.59
2:H:1052:MET:HA	2:H:1056:LYS:HD2	1.83	0.59
3:I:135:LEU:CD2	3:I:137:PRO:O	2.50	0.59
3:I:783:ARG:HA	3:I:1028:ALA:HA	1.83	0.59
3:I:804:LEU:HG	3:I:831:GLY:CA	2.31	0.59
3:I:963:TYR:HD2	3:I:1002:LYS:HD3	1.66	0.59
1:K:99:LEU:HB3	1:K:114:PHE:CD2	2.38	0.59
2:M:352:ALA:CA	2:M:355:VAL:HG12	2.32	0.59
2:M:435:TYR:HE1	2:M:539:VAL:HG22	1.67	0.59
3:N:107:ASP:O	3:N:108:VAL:C	2.44	0.59
3:N:210:ARG:HB2	3:N:389:GLU:HG3	1.82	0.59
3:N:880:ILE:CG2	3:N:881:LEU:N	2.65	0.59
3:N:1167:SER:O	3:N:1171:VAL:HG23	2.02	0.59
3:N:1225:ALA:O	3:N:1229:ILE:HG13	2.02	0.59
4:O:27:ALA:HA	4:O:30:LEU:HD12	1.82	0.59
1:A:127:LEU:HD12	1:A:128:HIS:N	2.17	0.59
2:C:182:VAL:C	2:C:193:LEU:HD13	2.26	0.59
2:C:285:LEU:O	2:C:285:LEU:HD23	2.02	0.59
2:C:295:ASP:HB3	2:C:297:GLU:OE2	2.01	0.59
2:C:754:ILE:HG13	2:C:791:ARG:NH1	2.17	0.59
3:D:352:ASN:C	3:D:368:VAL:HG13	2.27	0.59
3:D:789:LEU:HD12	3:D:911:LEU:HD21	1.84	0.59
3:D:1393:GLN:HB2	3:D:1398:TRP:CZ2	2.37	0.59
3:D:1452:ILE:CD1	3:D:1452:ILE:N	2.64	0.59
2:H:274:ARG:HG3	2:H:285:LEU:HD22	1.84	0.59
3:I:850:LEU:HD12	3:I:850:LEU:N	2.14	0.59
3:I:1356:TYR:HD2	3:I:1361:VAL:HG11	1.67	0.59
2:M:432:ARG:HH12	3:N:1047:LYS:HG2	1.66	0.59
2:M:751:PRO:HA	2:M:792:VAL:HG12	1.84	0.59
2:M:1112:PHE:HD2	2:M:1112:PHE:C	2.11	0.59
3:N:358:GLY:HA2	3:N:385:VAL:CA	2.32	0.59
3:N:508:ARG:HB3	3:N:509:PRO:HD2	1.84	0.59
3:N:715:ALA:HB3	3:N:764:LEU:HA	1.84	0.59
7:Z:7:LEU:HD23	7:Z:109:GLU:OE2	2.03	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:40:LEU:HA	1:A:43:ILE:HD12	1.83	0.59
2:C:64:LEU:HB2	2:C:359:MET:CG	2.33	0.59
3:D:162:ARG:HG3	3:D:452:ILE:CG2	2.33	0.59
1:F:76:VAL:HA	1:F:79:ILE:HG13	1.83	0.59
1:F:206:THR:HG22	1:F:209:GLU:CG	2.29	0.59
2:H:569:VAL:HG12	2:H:996:LYS:O	2.02	0.59
2:H:587:VAL:HG11	2:H:666:LEU:CD2	2.32	0.59
2:H:1009:SER:HB3	3:I:651:GLU:OE1	2.02	0.59
3:I:141:ILE:HG13	3:I:448:GLU:CD	2.27	0.59
3:I:1033:GLN:HE22	7:Y:54:GLU:HG2	1.64	0.59
3:I:1112:CYS:HB2	3:I:1195:GLN:HG2	1.84	0.59
1:L:22:GLU:OE2	1:L:198:ARG:HB3	2.03	0.59
2:M:200:LEU:CD1	2:M:202:TYR:CD2	2.86	0.59
2:M:272:ALA:HA	2:M:464:LEU:HD21	1.84	0.59
2:M:344:PHE:CD2	2:M:378:LEU:HD11	2.37	0.59
3:N:167:GLU:HB3	3:N:169:TYR:HE1	1.67	0.59
3:N:181:ASP:HA	3:N:205:TYR:HB3	1.85	0.59
3:N:403:PHE:CE2	3:N:444:VAL:HG23	2.38	0.59
3:N:845:ASN:H	3:N:848:GLU:HG3	1.67	0.59
3:N:1200:VAL:HG22	3:N:1373:ARG:NH1	2.17	0.59
5:P:20:DC:H2''	5:P:21:DG:H5'	1.84	0.59
1:A:21:GLY:HA3	1:A:207:PRO:CB	2.32	0.59
2:C:134:ARG:HH21	2:C:393:GLN:HA	1.67	0.59
2:C:151:ASP:HB2	2:C:157:ARG:O	2.03	0.59
2:C:433:THR:CG2	2:C:488:ALA:HB1	2.33	0.59
2:C:498:GLN:HE21	2:C:498:GLN:CA	2.14	0.59
2:C:720:GLU:HG2	2:C:760:SER:HB3	1.84	0.59
2:C:1055:LEU:HD22	2:C:1066:ALA:HB2	1.82	0.59
3:D:190:GLU:HG2	3:D:196:VAL:HG22	1.84	0.59
3:D:632:VAL:CG2	3:D:725:SER:HB2	2.32	0.59
3:D:701:LEU:N	3:D:701:LEU:HD12	2.17	0.59
3:D:829:VAL:HG12	3:D:830:ALA:N	2.17	0.59
3:D:889:ALA:HB1	3:D:930:LEU:HA	1.83	0.59
3:D:996:TRP:CE2	3:D:1056:PRO:HG2	2.37	0.59
3:D:1018:ASN:HB3	3:D:1021:TYR:HB3	1.84	0.59
1:F:46:SER:CB	2:H:856:GLU:CD	2.75	0.59
2:H:67:ASP:OD1	2:H:68:PHE:N	2.35	0.59
2:H:494:TYR:N	2:H:494:TYR:CD1	2.70	0.59
3:I:54:LYS:CG	3:I:55:ASP:H	2.15	0.59
3:I:482:LYS:HE2	3:I:1388:ARG:NH2	2.17	0.59
3:I:520:LEU:HD12	3:I:521:PRO:HD2	1.85	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:843:PHE:HE1	3:I:864:VAL:HG11	1.66	0.59
3:I:880:ILE:HG22	3:I:881:LEU:H	1.67	0.59
3:I:1209:LEU:HD11	4:J:16:LYS:HD2	1.85	0.59
2:M:39:ARG:HD2	2:M:39:ARG:N	2.12	0.59
2:M:203:ASP:HB2	2:M:205:GLU:OE2	2.02	0.59
2:M:361:MET:HE1	2:M:371:LYS:HE3	1.83	0.59
2:M:537:LYS:HG3	2:M:545:ASN:OD1	2.03	0.59
2:M:544:THR:C	2:M:546:LEU:H	2.10	0.59
3:N:141:ILE:N	3:N:162:ARG:HH12	1.99	0.59
3:N:729:HIS:O	3:N:732:VAL:HG23	2.03	0.59
3:N:804:LEU:HD13	3:N:829:VAL:CG1	2.33	0.59
3:N:1295:GLU:CB	3:N:1300:SER:HB3	2.32	0.59
3:N:1356:TYR:HD2	3:N:1361:VAL:HG11	1.68	0.59
1:B:56:VAL:HG11	1:B:140:MET:CE	2.33	0.59
2:C:701:THR:HG23	2:C:832:LYS:HA	1.85	0.59
2:C:870:ILE:HD13	2:C:870:ILE:N	2.17	0.59
2:C:1103:ASP:CG	3:D:2:LYS:HG3	2.28	0.59
3:D:98:PRO:O	3:D:458:ALA:HB3	2.03	0.59
2:H:208:ALA:O	2:H:212:GLY:N	2.33	0.59
2:H:267:TYR:CB	2:H:272:ALA:CB	2.80	0.59
2:H:872:ASN:HD21	2:H:874:LEU:HD12	1.67	0.59
3:I:637:LEU:HD21	3:I:642:CYS:HA	1.85	0.59
3:I:993:LEU:O	3:I:997:THR:OG1	2.19	0.59
3:I:1256:LEU:HD12	3:I:1259:VAL:HB	1.85	0.59
1:K:21:GLY:HA3	1:K:207:PRO:CB	2.33	0.59
2:M:207:LEU:HD21	2:M:221:LEU:HD22	1.84	0.59
2:M:384:GLU:O	2:M:388:ARG:HB2	2.02	0.59
2:M:1005:MET:CE	3:N:648:MET:HG3	2.33	0.59
2:M:1035:MET:HA	2:M:1038:TRP:CE3	2.38	0.59
3:N:185:VAL:HG21	3:N:191:LEU:HD21	1.83	0.59
3:N:493:ARG:HG3	3:N:494:LYS:N	2.18	0.59
3:N:804:LEU:O	3:N:804:LEU:HD23	2.03	0.59
3:N:875:THR:HG23	3:N:879:ARG:HG3	1.83	0.59
7:Y:112:VAL:HG22	7:Y:117:MET:HE2	1.85	0.59
1:A:226:SER:O	1:A:228:PRO:HD3	2.03	0.59
2:C:309:TYR:CE2	2:C:321:GLU:HB3	2.37	0.59
2:C:460:ARG:HH11	2:C:460:ARG:HG3	1.67	0.59
3:D:58:CYS:HB2	3:D:78:VAL:CB	2.33	0.59
3:D:87:ARG:O	3:D:524:LEU:HD11	2.03	0.59
3:D:991:GLN:HE22	7:X:112:VAL:HB	1.68	0.59
3:D:1165:TYR:CE2	3:D:1214:PRO:HB3	2.37	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1388:ARG:HG3	3:D:1389:LEU:H	1.67	0.59
1:F:30:ARG:NH1	1:F:191:ASP:HB2	2.17	0.59
1:F:39:PRO:O	1:F:43:ILE:HG12	2.02	0.59
1:G:54:THR:HG21	1:G:158:ILE:HG13	1.84	0.59
2:H:288:ARG:HH11	2:H:288:ARG:CB	2.16	0.59
2:H:570:PRO:HD2	2:H:635:THR:HG21	1.85	0.59
2:H:983:ILE:CD1	3:I:944:THR:HG22	2.33	0.59
3:I:804:LEU:CG	3:I:831:GLY:HA3	2.33	0.59
3:I:1264:GLU:O	3:I:1266:ARG:HG3	2.02	0.59
4:J:9:LEU:HB3	4:J:19:LEU:CD2	2.31	0.59
1:L:101:LEU:HD12	1:L:113:ASP:C	2.27	0.59
2:M:89:THR:O	2:M:91:GLN:HG3	2.02	0.59
2:M:226:VAL:HG13	2:M:227:PHE:CD1	2.37	0.59
2:M:369:PRO:HG2	2:M:370:ALA:N	2.05	0.59
2:M:480:THR:HG22	2:M:481:ASP:H	1.68	0.59
2:M:1019:GLN:HB2	2:M:1021:LEU:HD11	1.85	0.59
3:N:17:LYS:HA	3:N:20:SER:HB2	1.84	0.59
3:N:1147:ARG:HB3	3:N:1188:VAL:CG2	2.32	0.59
4:O:47:LYS:N	4:O:54:LEU:HD13	2.18	0.59
7:Z:134:VAL:CG2	7:Z:153:ALA:HA	2.33	0.59
2:C:677:MET:HA	2:C:873:PRO:CG	2.33	0.59
3:D:143:ASN:CA	3:D:161:LEU:HD21	2.33	0.59
3:D:181:ASP:HA	3:D:205:TYR:CB	2.33	0.59
3:D:206:ARG:HB3	3:D:207:PHE:CE1	2.38	0.59
3:D:789:LEU:CD1	3:D:934:LEU:HD22	2.33	0.59
1:F:45:LEU:N	1:F:45:LEU:HD12	2.18	0.59
1:F:64:GLU:O	1:F:75:VAL:HB	2.02	0.59
2:H:121:MET:HE3	2:H:125:GLY:O	2.02	0.59
2:H:498:GLN:HE21	2:H:498:GLN:CA	2.04	0.59
3:I:606:ILE:O	3:I:606:ILE:HG12	2.03	0.59
3:I:800:LYS:CG	3:I:801:GLY:N	2.65	0.59
3:I:988:ARG:HD3	3:I:992:ILE:HD11	1.85	0.59
3:I:1041:LEU:O	3:I:1041:LEU:HD23	2.02	0.59
2:M:1105:LYS:NZ	2:M:1107:ASN:HB2	2.18	0.59
3:N:452:ILE:H	3:N:452:ILE:HD13	1.68	0.59
3:N:1209:LEU:HD23	3:N:1211:MET:H	1.68	0.59
4:O:27:ALA:O	4:O:31:LEU:CD1	2.51	0.59
7:X:78:GLY:O	7:X:156:GLY:HA2	2.03	0.59
2:C:12:VAL:HB	2:C:472:ARG:NH1	2.17	0.58
2:C:204:GLN:CD	2:C:228:ALA:HB1	2.28	0.58
2:C:501:THR:CG2	2:C:513:VAL:HG13	2.33	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:701:THR:CG2	2:C:832:LYS:HA	2.33	0.58
2:C:1046:ALA:HB1	3:D:1471:LEU:CD1	2.19	0.58
3:D:361:VAL:HG13	3:D:379:ALA:HB1	1.85	0.58
3:D:1273:VAL:HG23	3:D:1273:VAL:O	2.03	0.58
3:D:1369:GLU:HA	3:D:1372:VAL:HG12	1.85	0.58
1:F:26:GLU:CB	1:F:194:LYS:HG3	2.31	0.58
1:G:83:LYS:HZ1	3:I:844:ALA:H	1.50	0.58
2:H:691:SER:CA	2:H:858:MET:HE1	2.33	0.58
2:H:1041:GLU:HB3	3:I:1223:ILE:CD1	2.33	0.58
3:I:29:PRO:HD3	3:I:548:ILE:CG2	2.32	0.58
3:I:465:LEU:HD22	3:I:510:GLU:CA	2.33	0.58
3:I:741:ASP:OD2	3:I:743:ASP:OD2	2.20	0.58
3:I:827:ILE:C	3:I:828:LYS:HG3	2.27	0.58
1:K:46:SER:HB3	2:M:856:GLU:CG	2.33	0.58
1:L:18:ARG:O	1:L:201:THR:OG1	2.21	0.58
2:M:205:GLU:HA	2:M:209:ARG:CZ	2.33	0.58
2:M:281:LEU:CG	2:M:282:GLY:H	2.16	0.58
2:M:688:ILE:HD13	2:M:847:GLY:HA3	1.84	0.58
3:N:171:LEU:CD2	3:N:172:PRO:HD2	2.33	0.58
3:N:729:HIS:NE2	3:N:731:LEU:HB2	2.17	0.58
3:N:982:PHE:CE1	7:Z:117:MET:HG2	2.38	0.58
3:N:1194:CYS:SG	3:N:1200:VAL:HG13	2.43	0.58
3:N:1422:MET:HE2	3:N:1427:SER:HA	1.84	0.58
7:X:17:GLN:O	7:X:21:ARG:HD3	2.03	0.58
7:Z:91:LEU:HB3	7:Z:149:PHE:HB3	1.85	0.58
3:D:119:SER:H	3:D:123:LEU:CD2	2.15	0.58
3:D:139:GLY:O	3:D:162:ARG:NH2	2.34	0.58
3:D:465:LEU:HD13	3:D:510:GLU:HA	1.85	0.58
3:D:1037:GLN:HG2	3:D:1042:ARG:HB3	1.84	0.58
3:D:1481:VAL:CG1	4:E:18:ARG:HA	2.13	0.58
1:F:50:GLY:HA3	1:F:173:PRO:HG3	1.83	0.58
1:G:68:ILE:HD12	1:G:68:ILE:N	2.18	0.58
3:I:87:ARG:CB	3:I:523:ASP:HB2	2.28	0.58
3:I:156:GLU:O	3:I:160:GLU:HB2	2.03	0.58
3:I:710:ARG:HG3	3:I:711:LEU:N	2.18	0.58
3:I:731:LEU:HD21	3:I:781:PRO:HA	1.85	0.58
3:I:804:LEU:CD2	3:I:831:GLY:HA3	2.33	0.58
3:I:1094:LEU:HG	3:I:1098:LEU:HD13	1.85	0.58
4:J:59:ASN:ND2	4:J:61:VAL:CG2	2.66	0.58
2:M:243:ARG:N	2:M:244:PRO:CD	2.66	0.58
3:N:902:LEU:HD23	3:N:902:LEU:H	1.68	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1007:VAL:HG12	3:N:1011:PHE:CE2	2.38	0.58
3:N:1037:GLN:OE1	3:N:1042:ARG:NH1	2.36	0.58
3:N:1189:ARG:HG3	3:N:1189:ARG:NH1	2.18	0.58
3:N:1200:VAL:HG22	3:N:1373:ARG:HH12	1.68	0.58
3:N:1340:GLY:O	3:N:1344:VAL:HG23	2.03	0.58
2:C:64:LEU:HB2	2:C:359:MET:HG3	1.85	0.58
2:C:193:LEU:HD12	2:C:193:LEU:N	2.19	0.58
2:C:260:LEU:CA	2:C:291:ALA:HB1	2.34	0.58
3:D:179:VAL:HG13	3:D:183:GLU:CB	2.26	0.58
3:D:409:VAL:HG13	3:D:410:SER:H	1.67	0.58
3:D:851:LEU:N	3:D:851:LEU:HD23	2.19	0.58
3:D:979:GLU:O	7:X:143:PRO:HD2	2.02	0.58
1:G:56:VAL:CG1	1:G:57:TYR:N	2.65	0.58
2:H:79:PRO:HG2	2:H:82:GLU:HB2	1.86	0.58
2:H:455:LEU:HD12	2:H:455:LEU:C	2.28	0.58
2:H:853:LEU:CB	2:H:858:MET:HE3	2.33	0.58
2:H:857:ASP:CB	2:H:978:ARG:HG2	2.21	0.58
2:H:1026:GLN:HA	2:H:1026:GLN:OE1	2.03	0.58
3:I:95:LEU:HD21	3:I:574:LEU:HD11	1.85	0.58
3:I:581:LEU:H	3:I:581:LEU:CD2	2.14	0.58
3:I:584:ASN:ND2	3:I:590:PRO:HD2	2.18	0.58
3:I:696:HIS:HB2	4:J:48:MET:HE1	1.85	0.58
3:I:696:HIS:ND1	4:J:48:MET:SD	2.76	0.58
3:I:720:LEU:H	3:I:720:LEU:CD1	2.16	0.58
3:I:770:LEU:HB2	3:I:1210:SER:O	2.04	0.58
3:I:1202:GLN:HB2	3:I:1217:ILE:HD11	1.85	0.58
1:L:25:LEU:HD21	1:L:28:LEU:HD21	1.86	0.58
2:M:176:VAL:HG23	2:M:176:VAL:O	2.02	0.58
2:M:456:ALA:HB3	2:M:459:ALA:CB	2.29	0.58
2:M:714:ASP:OD1	2:M:719:PRO:HG3	2.03	0.58
2:C:352:ALA:HA	2:C:355:VAL:CG1	2.33	0.58
2:C:611:ILE:HG13	2:C:625:LEU:HD21	1.86	0.58
2:C:717:LEU:HB3	2:C:761:PHE:CG	2.38	0.58
2:C:725:ASP:HB3	2:C:783:ARG:HH12	1.69	0.58
3:D:489:ARG:NH2	3:D:1389:LEU:HD11	2.17	0.58
3:D:1126:ASP:C	3:D:1126:ASP:OD1	2.46	0.58
4:E:54:LEU:HG	4:E:58:PRO:HB3	1.85	0.58
1:F:63:HIS:CB	2:H:799:ILE:HG21	2.33	0.58
1:F:91:ASN:OD1	1:F:92:PRO:HD2	2.03	0.58
2:H:18:LEU:HD12	2:H:18:LEU:N	2.17	0.58
2:H:224:GLU:OE1	2:H:226:VAL:HG13	2.04	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1005:MET:HE1	3:I:724:GLN:HB2	1.84	0.58
3:I:123:LEU:HD21	3:I:151:GLN:NE2	2.18	0.58
3:I:128:TYR:CE2	3:I:458:ALA:HA	2.34	0.58
3:I:661:MET:HE2	3:I:673:ALA:HB1	1.86	0.58
1:K:56:VAL:HG12	1:K:57:TYR:H	1.66	0.58
2:M:208:ALA:O	2:M:212:GLY:N	2.35	0.58
2:M:281:LEU:CD1	2:M:309:TYR:HB2	2.33	0.58
2:M:462:ASP:CB	2:M:468:ARG:HD2	2.32	0.58
2:M:495:THR:CG2	2:M:517:ARG:HH21	2.11	0.58
3:N:104:PHE:O	3:N:112:ILE:CG2	2.51	0.58
3:N:695:ILE:O	3:N:696:HIS:C	2.46	0.58
3:N:1095:THR:HG23	3:N:1230:GLY:HA3	1.83	0.58
3:N:1273:VAL:HG23	3:N:1273:VAL:O	2.03	0.58
1:A:206:THR:HG23	1:A:208:LEU:H	1.67	0.58
1:B:227:ASN:HD22	1:B:227:ASN:N	2.01	0.58
2:C:329:GLY:HA3	2:C:489:THR:CG2	2.33	0.58
2:C:736:ASP:O	2:C:744:ARG:HG2	2.02	0.58
2:C:742:VAL:HG12	2:C:743:VAL:H	1.68	0.58
3:D:104:PHE:CD1	3:D:512:MET:HG2	2.38	0.58
3:D:689:ASP:O	3:D:693:GLU:HB2	2.03	0.58
3:D:762:GLN:NE2	4:E:20:THR:HG21	2.14	0.58
2:H:165:LEU:HB3	2:H:265:ARG:CZ	2.34	0.58
2:H:252:LYS:O	2:H:255:ALA:N	2.37	0.58
2:H:261:ILE:HG22	2:H:266:ARG:NH2	2.18	0.58
2:H:281:LEU:O	2:H:282:GLY:C	2.45	0.58
2:H:1097:LEU:HG	3:I:10:ILE:CG2	2.31	0.58
3:I:52:PRO:HG2	3:I:80:VAL:HG22	1.86	0.58
3:I:804:LEU:HD23	3:I:831:GLY:CA	2.33	0.58
3:I:812:ALA:O	3:I:816:HIS:HB2	2.02	0.58
4:J:40:LEU:CD2	4:J:67:GLU:HA	2.33	0.58
1:K:194:LYS:HZ1	1:K:196:THR:HG21	1.67	0.58
2:M:401:LEU:CD1	2:M:587:VAL:HG11	2.33	0.58
2:M:430:VAL:HG13	3:N:1075:HIS:ND1	2.18	0.58
2:M:606:VAL:HG11	2:M:643:VAL:O	2.02	0.58
3:N:40:GLU:OE1	3:N:40:GLU:HA	2.04	0.58
3:N:688:TRP:HA	3:N:688:TRP:CE3	2.38	0.58
3:N:1048:PRO:O	3:N:1079:LYS:HE3	2.03	0.58
3:N:1183:ILE:HD12	3:N:1183:ILE:O	2.04	0.58
2:C:47:ALA:O	2:C:348:LEU:HD23	2.03	0.58
2:C:267:TYR:CD2	2:C:267:TYR:N	2.65	0.58
2:C:281:LEU:O	2:C:282:GLY:C	2.46	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1061:GLU:OE2	3:D:84:ILE:CD1	2.45	0.58
3:D:58:CYS:HB2	3:D:78:VAL:CG1	2.33	0.58
3:D:644:LEU:HD12	3:D:645:PRO:HD2	1.84	0.58
3:D:1292:VAL:HG23	3:D:1305:LEU:HG	1.84	0.58
4:E:54:LEU:HD23	4:E:54:LEU:O	2.03	0.58
2:H:272:ALA:O	2:H:276:LYS:NZ	2.29	0.58
2:H:399:ASN:O	2:H:402:SER:HB3	2.03	0.58
2:H:571:LEU:HD21	2:H:700:TYR:HA	1.86	0.58
3:I:23:TYR:O	3:I:49:ILE:HG23	2.03	0.58
3:I:1007:VAL:CG1	3:I:1011:PHE:HE2	2.15	0.58
3:I:1101:VAL:HG11	3:I:1424:VAL:O	2.04	0.58
3:I:1110:ALA:O	3:I:1111:ASP:C	2.46	0.58
1:K:43:ILE:CD1	1:L:35:THR:HG21	2.33	0.58
2:M:204:GLN:CD	2:M:228:ALA:HB1	2.29	0.58
2:M:1105:LYS:HD2	2:M:1107:ASN:ND2	2.18	0.58
3:N:165:LYS:NZ	3:N:199:LEU:CD2	2.66	0.58
3:N:907:GLU:HG2	3:N:908:LYS:N	2.18	0.58
3:N:1003:VAL:O	3:N:1007:VAL:HG23	2.03	0.58
7:X:127:LYS:C	7:X:127:LYS:HD3	2.28	0.58
1:A:89:PHE:C	1:A:90:LEU:HD12	2.29	0.58
1:B:48:ILE:CD1	1:B:48:ILE:H	2.15	0.58
2:C:483:VAL:HG12	2:C:484:VAL:N	2.18	0.58
2:C:976:ASP:CB	2:C:979:THR:HG22	2.33	0.58
3:D:39:PRO:O	3:D:40:GLU:O	2.21	0.58
3:D:83:SER:O	3:D:86:ARG:HB2	2.04	0.58
3:D:805:GLU:O	3:D:809:PRO:HD2	2.03	0.58
3:D:1066:THR:HG22	3:D:1069:GLU:CB	2.22	0.58
3:D:1299:PHE:N	3:D:1299:PHE:HD2	2.01	0.58
1:F:186:LEU:HD23	1:F:187:GLY:N	2.18	0.58
2:H:159:ILE:HD12	2:H:159:ILE:O	2.04	0.58
2:H:593:ALA:HB1	2:H:659:PRO:HD2	1.86	0.58
2:H:690:ILE:HD11	2:H:694:LEU:HD12	1.86	0.58
2:H:857:ASP:OD1	2:H:857:ASP:N	2.36	0.58
2:H:877:PRO:HG3	3:I:1023:MET:SD	2.44	0.58
2:H:976:ASP:CB	2:H:979:THR:HG22	2.34	0.58
3:I:8:VAL:CG2	3:I:1459:LEU:HD11	2.33	0.58
3:I:983:LEU:HD23	3:I:983:LEU:H	1.68	0.58
3:I:1235:GLN:HB2	7:Y:37:MET:HE3	1.85	0.58
1:K:44:LEU:O	1:K:48:ILE:HD12	2.03	0.58
2:M:838:LYS:HD3	2:M:846:LYS:NZ	2.19	0.58
2:M:1008:ARG:HH12	2:M:1010:THR:HA	1.68	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:367:ILE:CB	3:N:377:VAL:HG12	2.32	0.58
3:N:400:VAL:HG22	3:N:443:VAL:CG2	2.32	0.58
3:N:804:LEU:HD22	3:N:831:GLY:CA	2.26	0.58
3:N:849:ALA:O	3:N:853:VAL:HG23	2.03	0.58
3:N:890:VAL:HG11	3:N:922:LEU:HD12	1.82	0.58
3:N:963:TYR:CE2	3:N:1002:LYS:HD3	2.38	0.58
3:N:1299:PHE:HD2	3:N:1299:PHE:N	2.02	0.58
3:N:1481:VAL:HG11	4:O:18:ARG:CA	2.11	0.58
1:A:39:PRO:HG3	1:B:39:PRO:HG3	1.86	0.58
1:B:80:LEU:HG	3:D:844:ALA:HB2	1.84	0.58
2:C:136:ILE:HD12	2:C:136:ILE:N	2.19	0.58
2:C:208:ALA:O	2:C:212:GLY:N	2.32	0.58
2:C:654:LEU:HD23	2:C:654:LEU:N	2.17	0.58
2:C:950:LEU:HD12	2:C:952:LEU:CD2	2.32	0.58
2:C:1060:ILE:HG21	3:D:87:ARG:NH2	2.18	0.58
3:D:45:PHE:HD1	3:D:522:PRO:HB3	1.69	0.58
3:D:112:ILE:HD13	3:D:112:ILE:C	2.29	0.58
3:D:398:ALA:HB2	3:D:447:VAL:HA	1.84	0.58
3:D:1367:HIS:HA	3:D:1370:ILE:HD12	1.86	0.58
1:G:124:ASN:N	1:G:125:PRO:HD3	2.17	0.58
2:H:12:VAL:CG2	2:H:13:ILE:HG23	2.26	0.58
2:H:38:LYS:HE2	2:H:38:LYS:HA	1.86	0.58
2:H:94:LEU:HD12	2:H:95:TYR:O	2.04	0.58
2:H:129:ILE:CD1	2:H:386:PHE:HB3	2.33	0.58
2:H:304:LEU:CD2	2:H:305:PRO:HD3	2.33	0.58
2:H:403:SER:O	2:H:407:LYS:HG3	2.04	0.58
3:I:482:LYS:HE2	3:I:1388:ARG:HH22	1.69	0.58
3:I:650:LEU:HD13	3:I:688:TRP:CZ3	2.30	0.58
3:I:1007:VAL:CG1	3:I:1011:PHE:CE2	2.86	0.58
1:L:62:LEU:HD13	1:L:63:HIS:CD2	2.38	0.58
1:L:179:PHE:N	1:L:179:PHE:CD2	2.70	0.58
2:M:189:ARG:NH1	2:M:190:LYS:HD2	2.18	0.58
2:M:374:ASN:HD21	2:M:376:ARG:HB2	1.66	0.58
3:N:165:LYS:HE2	3:N:167:GLU:HG3	1.86	0.58
3:N:871:LYS:HE2	3:N:873:LEU:HD21	1.86	0.58
1:B:185:ARG:NH1	3:D:692:GLU:HG2	2.19	0.58
2:C:134:ARG:HB3	2:C:393:GLN:O	2.03	0.58
2:C:1011:GLY:HA3	2:C:1026:GLN:HG2	1.86	0.58
3:D:47:GLU:O	3:D:51:GLY:N	2.36	0.58
3:D:107:ASP:O	3:D:108:VAL:C	2.45	0.58
3:D:141:ILE:CG2	3:D:162:ARG:HH11	2.16	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:202:VAL:O	3:D:395:VAL:CG1	2.49	0.58
3:D:715:ALA:HB3	3:D:764:LEU:HA	1.86	0.58
3:D:739:ASP:OD1	3:D:743:ASP:OD2	2.22	0.58
3:D:972:LEU:O	3:D:976:GLN:HG3	2.03	0.58
3:D:1217:ILE:HB	3:D:1480:PHE:CD2	2.39	0.58
3:D:1459:LEU:HD12	3:D:1459:LEU:N	2.19	0.58
1:G:29:GLU:HB2	1:G:32:PHE:CD1	2.39	0.58
1:G:206:THR:HG23	1:G:209:GLU:H	1.69	0.58
2:H:172:ILE:H	2:H:172:ILE:HD12	1.67	0.58
2:H:654:LEU:H	2:H:654:LEU:CD2	2.05	0.58
2:H:943:VAL:HG11	2:H:973:VAL:HG13	1.85	0.58
3:I:179:VAL:HG21	3:I:189:GLN:NE2	2.19	0.58
3:I:701:LEU:HD11	3:I:750:PRO:HG3	1.85	0.58
4:J:48:MET:HG3	4:J:49:GLN:H	1.67	0.58
1:K:89:PHE:N	1:K:89:PHE:CD1	2.70	0.58
2:M:174:LEU:HD23	2:M:184:MET:HG3	1.86	0.58
2:M:224:GLU:HG3	2:M:227:PHE:HB2	1.86	0.58
2:M:597:ALA:CA	2:M:655:LEU:HD11	2.33	0.58
2:M:690:ILE:HD11	2:M:694:LEU:HB2	1.85	0.58
2:M:794:PRO:CG	2:M:1025:ALA:HA	2.34	0.58
3:N:705:ALA:CB	3:N:706:PRO:CD	2.82	0.58
3:N:1147:ARG:HD2	3:N:1188:VAL:HG21	1.84	0.58
7:X:5:VAL:HB	7:X:72:ALA:HA	1.86	0.58
1:A:83:LYS:HD3	1:A:167:VAL:HG12	1.86	0.58
2:C:22:GLN:NE2	2:C:336:VAL:CG2	2.67	0.58
2:C:129:ILE:HG22	2:C:130:ASN:H	1.66	0.58
2:C:136:ILE:CG2	2:C:336:VAL:HG22	2.34	0.58
2:C:332:ARG:HG3	2:C:464:LEU:O	2.03	0.58
2:C:668:LEU:O	2:C:995:MET:HB3	2.03	0.58
2:C:701:THR:HA	2:C:831:ARG:O	2.04	0.58
3:D:87:ARG:CB	3:D:523:ASP:HB2	2.16	0.58
3:D:105:VAL:HG22	3:D:112:ILE:HG21	1.85	0.58
3:D:465:LEU:HD11	3:D:512:MET:HB2	1.86	0.58
3:D:980:MET:HB3	3:D:982:PHE:HE2	1.64	0.58
3:D:1264:GLU:HG2	3:D:1266:ARG:NH2	2.18	0.58
3:D:1366:LYS:O	3:D:1370:ILE:HG13	2.04	0.58
3:D:1405:GLU:OE2	3:D:1411:GLY:O	2.21	0.58
1:G:41:ARG:HG3	1:G:177:VAL:HG21	1.85	0.58
1:G:68:ILE:HD12	1:G:68:ILE:H	1.67	0.58
2:H:260:LEU:HA	2:H:291:ALA:CB	2.34	0.58
2:H:267:TYR:HB2	2:H:272:ALA:HB2	1.82	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:274:ARG:O	2:H:277:ALA:HB3	2.03	0.58
2:H:937:ASP:CB	2:H:940:GLU:HG3	2.33	0.58
2:H:1096:ALA:HB2	3:I:101:HIS:CD2	2.38	0.58
3:I:1166:LEU:HD23	3:I:1166:LEU:H	1.68	0.58
4:J:46:PRO:HB2	4:J:54:LEU:HD22	1.85	0.58
2:M:1112:PHE:C	2:M:1112:PHE:CD2	2.82	0.58
3:N:181:ASP:CA	3:N:205:TYR:HB3	2.34	0.58
3:N:415:VAL:HG12	3:N:416:ALA:N	2.18	0.58
3:N:1123:PHE:CE2	3:N:1184:GLN:HA	2.39	0.58
3:N:1161:GLU:HG2	3:N:1164:ARG:HB2	1.85	0.58
1:A:45:LEU:HD12	1:A:45:LEU:N	2.19	0.57
1:B:80:LEU:HG	3:D:844:ALA:CB	2.34	0.57
3:D:204:LEU:O	3:D:393:ILE:HG23	2.04	0.57
3:D:1209:LEU:O	3:D:1210:SER:C	2.45	0.57
2:H:260:LEU:HD22	2:H:292:ARG:NH1	2.18	0.57
2:H:463:GLU:OE1	2:H:463:GLU:HA	2.04	0.57
2:H:473:ARG:HG2	2:H:473:ARG:HH11	1.69	0.57
2:H:876:VAL:O	2:H:879:ARG:O	2.22	0.57
2:H:1076:VAL:HG11	3:I:752:SER:HA	1.86	0.57
3:I:618:LEU:HD11	3:I:1463:LYS:HE2	1.85	0.57
3:I:1066:THR:OG1	3:I:1067:VAL:N	2.37	0.57
1:L:219:ARG:O	1:L:222:LEU:HB2	2.04	0.57
2:M:224:GLU:OE1	2:M:226:VAL:CG1	2.52	0.57
2:M:328:LEU:HB2	2:M:433:THR:CG2	2.34	0.57
2:M:682:TYR:CD1	3:N:635:PRO:HG2	2.39	0.57
3:N:975:GLU:OE1	3:N:975:GLU:HA	2.03	0.57
3:N:1481:VAL:HG12	4:O:21:VAL:HG21	1.85	0.57
1:B:82:LEU:HD13	1:B:142:VAL:HG11	1.85	0.57
2:C:194:VAL:O	2:C:197:LEU:N	2.37	0.57
2:C:224:GLU:CB	2:C:228:ALA:HB2	2.33	0.57
2:C:577:PRO:HG3	2:C:993:PHE:CE1	2.39	0.57
2:C:1097:LEU:HD12	3:D:10:ILE:HG23	1.86	0.57
3:D:834:THR:HB	3:D:838:ARG:HB2	1.86	0.57
3:D:861:GLN:H	3:D:861:GLN:CD	2.13	0.57
3:D:1356:TYR:HD2	3:D:1361:VAL:HG11	1.69	0.57
1:G:73:GLU:OE1	1:G:130:ALA:HA	2.04	0.57
2:H:218:VAL:HG23	2:H:311:PHE:HE1	1.70	0.57
2:H:257:VAL:HG12	2:H:263:ASP:CG	2.29	0.57
2:H:1055:LEU:HD22	2:H:1066:ALA:HB2	1.85	0.57
3:I:834:THR:HB	3:I:838:ARG:HB2	1.86	0.57
3:I:1063:GLU:CD	3:I:1064:GLY:N	2.62	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:1135:ARG:HD2	3:I:1139:ASP:CB	2.28	0.57
3:I:1391:GLU:OE1	3:I:1393:GLN:NE2	2.37	0.57
3:I:1465:ASN:HD22	3:I:1468:LEU:HD12	1.69	0.57
2:M:239:PHE:CZ	2:M:252:LYS:CA	2.86	0.57
2:M:300:ASP:C	2:M:302:VAL:N	2.61	0.57
2:M:516:ARG:HG3	3:N:1068:LEU:HD11	1.86	0.57
2:M:632:ASN:C	2:M:633:GLN:NE2	2.62	0.57
2:M:861:LEU:HD22	2:M:865:THR:CG2	2.34	0.57
2:M:878:SER:OG	3:N:1029:ARG:NH1	2.37	0.57
2:M:1090:LYS:HA	2:M:1093:GLN:HG3	1.86	0.57
3:N:28:LYS:HD3	3:N:41:ARG:NH2	2.19	0.57
3:N:829:VAL:CG1	3:N:830:ALA:N	2.66	0.57
7:X:33:LEU:HD12	7:X:51:ALA:CB	2.34	0.57
1:A:91:ASN:HD22	1:A:93:SER:HB3	1.70	0.57
2:C:98:LEU:N	2:C:98:LEU:CD1	2.64	0.57
2:C:267:TYR:H	2:C:267:TYR:HD2	1.50	0.57
2:C:690:ILE:HG23	2:C:852:ILE:HA	1.85	0.57
2:C:1084:SER:O	2:C:1087:VAL:HG12	2.04	0.57
3:D:162:ARG:HG3	3:D:452:ILE:HG21	1.86	0.57
3:D:834:THR:HA	3:D:838:ARG:NH1	2.19	0.57
3:D:1452:ILE:N	3:D:1452:ILE:HD12	2.19	0.57
1:G:197:LEU:HD23	1:G:199:ILE:HD11	1.86	0.57
2:H:376:ARG:NH1	2:H:380:ALA:HB2	2.11	0.57
2:H:425:PHE:CZ	3:I:1079:LYS:HD3	2.40	0.57
2:H:523:ILE:HG23	2:H:523:ILE:O	2.02	0.57
2:H:556:ASN:ND2	2:H:556:ASN:C	2.55	0.57
2:H:588:VAL:HG21	2:H:664:GLY:O	2.04	0.57
2:H:808:ARG:O	2:H:810:ASP:N	2.37	0.57
3:I:827:ILE:HA	3:I:836:VAL:HG13	1.85	0.57
3:I:1487:VAL:HG13	3:I:1491:THR:HB	1.86	0.57
4:J:36:LYS:NZ	4:J:45:ARG:NH2	2.50	0.57
1:L:55:SER:OG	1:L:158:ILE:HB	2.05	0.57
2:M:193:LEU:N	2:M:193:LEU:HD12	2.19	0.57
2:M:316:GLY:C	2:M:318:PRO:HD3	2.30	0.57
2:M:328:LEU:CD2	2:M:437:ARG:HD3	2.35	0.57
2:M:967:PHE:CD1	2:M:972:VAL:HG12	2.37	0.57
2:M:1104:GLU:CD	3:N:3:LYS:HB2	2.30	0.57
3:N:162:ARG:CG	3:N:452:ILE:HD12	2.31	0.57
3:N:1000:THR:HG23	3:N:1001:GLU:H	1.69	0.57
7:X:6:LYS:HB2	7:X:85:LEU:HD12	1.85	0.57
1:A:165:ILE:O	1:A:165:ILE:HG12	2.03	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:52:PHE:HE1	2:C:66:LEU:HG	1.68	0.57
2:C:457:ALA:HB3	2:C:538:GLN:HA	1.87	0.57
2:C:591:SER:O	2:C:592:LEU:HB2	2.04	0.57
3:D:115:LEU:C	3:D:115:LEU:CD2	2.73	0.57
3:D:149:LYS:H	3:D:149:LYS:HE2	1.69	0.57
3:D:202:VAL:C	3:D:395:VAL:HG13	2.30	0.57
3:D:205:TYR:HD1	3:D:390:PRO:CG	2.17	0.57
3:D:759:ALA:HA	3:D:763:MET:HE2	1.86	0.57
1:G:43:ILE:HG22	1:G:47:SER:HB3	1.84	0.57
1:G:197:LEU:HD21	1:G:199:ILE:HD11	1.86	0.57
1:G:201:THR:HG21	1:G:205:VAL:O	2.03	0.57
2:H:218:VAL:HG13	2:H:221:LEU:HD11	1.86	0.57
2:H:496:ILE:HA	2:H:531:PHE:O	2.04	0.57
2:H:677:MET:HA	2:H:873:PRO:CG	2.33	0.57
3:I:800:LYS:CG	3:I:826:PRO:CD	2.70	0.57
3:I:845:ASN:O	3:I:848:GLU:HB2	2.04	0.57
3:I:1349:VAL:HA	3:I:1368:ILE:CG2	2.34	0.57
3:I:1459:LEU:HD23	3:I:1470:ARG:HH21	1.65	0.57
2:M:115:LEU:HA	2:M:375:SER:OG	2.05	0.57
2:M:200:LEU:HD13	2:M:300:ASP:CG	2.29	0.57
3:N:55:ASP:O	3:N:56:TYR:HB2	2.05	0.57
3:N:181:ASP:O	3:N:205:TYR:N	2.37	0.57
3:N:1044:LEU:HD21	3:N:1056:PRO:HG3	1.86	0.57
3:N:1369:GLU:HA	3:N:1372:VAL:HG12	1.87	0.57
7:Z:77:GLU:O	7:Z:77:GLU:HG3	2.04	0.57
7:Z:120:SER:HB2	7:Z:123:SER:CB	2.18	0.57
1:A:64:GLU:O	1:A:75:VAL:HB	2.04	0.57
2:C:328:LEU:HD13	2:C:433:THR:HB	1.85	0.57
2:C:722:ILE:HD13	2:C:722:ILE:C	2.29	0.57
3:D:52:PRO:CA	3:D:86:ARG:HD3	2.34	0.57
3:D:811:GLU:O	3:D:815:ALA:HB3	2.04	0.57
3:D:921:ARG:C	3:D:922:LEU:HD23	2.29	0.57
3:D:980:MET:SD	7:X:147:ARG:NH1	2.78	0.57
3:D:1103:HIS:CD2	3:D:1463:LYS:HB2	2.38	0.57
3:D:1109:GLU:HG3	3:D:1217:ILE:CD1	2.33	0.57
4:E:25:LYS:O	4:E:29:GLN:HG3	2.04	0.57
1:F:56:VAL:HG21	1:F:82:LEU:HD12	1.86	0.57
2:H:124:ASP:HB3	2:H:592:LEU:HD12	1.87	0.57
2:H:174:LEU:HD21	2:H:184:MET:HG3	1.86	0.57
2:H:332:ARG:HG2	2:H:333:ILE:N	2.19	0.57
2:H:878:SER:HB3	3:I:1029:ARG:NH1	2.20	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:162:ARG:HG3	3:I:452:ILE:HD12	1.86	0.57
3:I:191:LEU:HD21	3:I:203:ALA:CB	2.34	0.57
3:I:841:TYR:HB2	3:I:864:VAL:CG1	2.34	0.57
3:I:1422:MET:CE	3:I:1427:SER:HA	2.35	0.57
2:M:455:LEU:HD13	2:M:459:ALA:CB	2.26	0.57
2:M:767:PRO:HB3	2:M:772:ARG:HH21	1.68	0.57
2:M:860:HIS:CE1	2:M:975:TYR:HB2	2.40	0.57
3:N:99:ALA:HA	3:N:575:GLN:NE2	2.18	0.57
3:N:181:ASP:HA	3:N:205:TYR:CB	2.35	0.57
3:N:688:TRP:HA	3:N:688:TRP:HE3	1.69	0.57
3:N:812:ALA:O	3:N:816:HIS:HB2	2.04	0.57
3:N:827:ILE:O	3:N:827:ILE:HG22	2.04	0.57
2:C:64:LEU:HD13	2:C:359:MET:HG3	1.86	0.57
2:C:1029:GLY:O	3:D:622:ARG:HB3	2.04	0.57
2:C:1037:VAL:HG13	2:C:1049:LEU:CD1	2.33	0.57
3:D:162:ARG:HG3	3:D:452:ILE:HD12	1.87	0.57
3:D:461:ILE:HD13	3:D:461:ILE:N	2.18	0.57
3:D:695:ILE:O	3:D:696:HIS:C	2.47	0.57
1:F:123:MET:C	1:F:125:PRO:HD3	2.29	0.57
1:G:151:VAL:HG12	1:G:156:HIS:HD2	1.70	0.57
2:H:1016:ILE:HG13	2:H:1017:THR:H	1.69	0.57
3:I:204:LEU:HB2	3:I:394:LEU:CG	2.34	0.57
3:I:695:ILE:O	3:I:696:HIS:C	2.48	0.57
3:I:1047:LYS:CB	3:I:1048:PRO:CD	2.81	0.57
3:I:1352:ILE:HG21	3:I:1368:ILE:CD1	2.28	0.57
1:L:12:THR:OG1	1:L:24:VAL:HB	2.04	0.57
2:M:106:GLY:C	2:M:107:LEU:HD23	2.29	0.57
2:M:516:ARG:HG3	3:N:1068:LEU:HD13	1.84	0.57
2:M:585:GLU:O	2:M:588:VAL:HG22	2.05	0.57
2:M:689:VAL:O	2:M:869:VAL:HG23	2.04	0.57
3:N:26:VAL:HG11	3:N:44:LEU:HD23	1.85	0.57
3:N:762:GLN:HE21	4:O:20:THR:CG2	2.17	0.57
3:N:1434:TRP:CD1	3:N:1435:LEU:N	2.73	0.57
2:C:224:GLU:OE1	2:C:226:VAL:CG1	2.53	0.57
2:C:338:GLU:O	2:C:341:THR:HG22	2.05	0.57
2:C:524:VAL:HG13	2:C:528:GLU:OE1	2.04	0.57
2:C:839:LEU:HD21	2:C:849:VAL:HG23	1.86	0.57
2:C:857:ASP:HB2	2:C:978:ARG:CG	2.23	0.57
2:C:950:LEU:HB3	2:C:952:LEU:CD2	2.28	0.57
3:D:879:ARG:O	3:D:882:PHE:HB3	2.05	0.57
3:D:1281:VAL:HG21	3:D:1313:VAL:CG2	2.34	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:15:SER:O	4:E:18:ARG:HB3	2.04	0.57
1:F:101:LEU:HB2	1:F:114:PHE:CD2	2.39	0.57
2:H:184:MET:HB2	2:H:193:LEU:CG	2.32	0.57
2:H:211:LEU:HD21	2:H:221:LEU:HD22	1.85	0.57
2:H:260:LEU:C	2:H:260:LEU:HD12	2.30	0.57
2:H:496:ILE:HG13	2:H:531:PHE:HB2	1.87	0.57
2:H:853:LEU:HD22	2:H:858:MET:HE2	1.86	0.57
2:H:937:ASP:OD2	2:H:939:ARG:HG2	2.04	0.57
2:H:1076:VAL:CG1	3:I:752:SER:HA	2.34	0.57
2:H:1097:LEU:HD23	3:I:10:ILE:HG12	1.86	0.57
3:I:637:LEU:CD1	3:I:641:GLN:HB2	2.34	0.57
3:I:703:ASN:HD21	3:I:707:THR:HG23	1.70	0.57
3:I:1389:LEU:HD12	3:I:1390:LEU:HD23	1.86	0.57
1:K:86:VAL:HG13	1:K:124:ASN:HB2	1.87	0.57
2:M:175:GLU:OE1	2:M:177:GLU:HB2	2.04	0.57
2:M:304:LEU:HG	2:M:305:PRO:CD	2.35	0.57
2:M:606:VAL:CG2	2:M:645:VAL:HG13	2.29	0.57
2:M:897:LEU:HD21	2:M:921:ALA:CA	2.35	0.57
2:M:939:ARG:HA	2:M:939:ARG:NE	2.12	0.57
2:M:966:LEU:HD21	2:M:986:PRO:HG2	1.85	0.57
3:N:206:ARG:HG3	3:N:391:ALA:HB3	1.86	0.57
3:N:651:GLU:OE1	3:N:651:GLU:HA	2.03	0.57
3:N:814:ALA:HB1	3:N:818:ARG:HH21	1.68	0.57
7:Y:141:ASP:OD2	7:Y:142:THR:N	2.38	0.57
7:Z:14:ARG:HB3	7:Z:14:ARG:NH1	2.19	0.57
1:B:80:LEU:HG	3:D:844:ALA:HA	1.86	0.57
1:B:165:ILE:N	1:B:165:ILE:CD1	2.65	0.57
2:C:433:THR:HG21	2:C:488:ALA:HB1	1.85	0.57
2:C:1009:SER:OG	2:C:1010:THR:N	2.37	0.57
3:D:181:ASP:O	3:D:205:TYR:N	2.38	0.57
3:D:593:ASN:O	3:D:594:PRO:C	2.47	0.57
3:D:687:VAL:O	3:D:690:ALA:HB3	2.05	0.57
3:D:1295:GLU:OE2	3:D:1295:GLU:N	2.37	0.57
4:E:48:MET:N	4:E:54:LEU:HB2	2.20	0.57
1:G:12:THR:OG1	1:G:24:VAL:HB	2.03	0.57
1:G:94:LEU:HD13	1:G:120:VAL:HG22	1.86	0.57
2:H:191:PHE:HE2	2:H:195:LEU:HB3	1.67	0.57
2:H:206:THR:HG23	2:H:207:LEU:H	1.69	0.57
2:H:212:GLY:HA3	2:H:218:VAL:HG21	1.85	0.57
2:H:338:GLU:HA	2:H:341:THR:CG2	2.35	0.57
2:H:512:ARG:CA	2:H:523:ILE:HD11	2.35	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1059:ASP:OD1	2:H:1062:GLY:N	2.37	0.57
3:I:1106:VAL:HG21	3:I:1474:ALA:HB2	1.87	0.57
3:I:1148:VAL:HG13	3:I:1163:GLY:O	2.04	0.57
3:I:1496:GLU:CD	3:I:1500:LYS:HE3	2.30	0.57
2:M:31:GLN:O	2:M:71:TYR:OH	2.13	0.57
2:M:496:ILE:HA	2:M:531:PHE:O	2.05	0.57
3:N:10:ILE:O	3:N:10:ILE:HG22	2.03	0.57
2:C:516:ARG:HE	3:D:1068:LEU:HD13	1.69	0.57
3:D:610:LYS:O	3:D:615:ARG:HG2	2.04	0.57
3:D:844:ALA:O	3:D:867:ARG:HB3	2.05	0.57
3:D:1091:SER:HB3	5:P:19:DC:C5'	2.33	0.57
3:D:1102:THR:HA	3:D:1105:ILE:CD1	2.31	0.57
3:D:1213:ARG:HG3	3:D:1214:PRO:HD2	1.87	0.57
2:H:6:PHE:N	2:H:6:PHE:CD1	2.73	0.57
2:H:144:PRO:HA	2:H:163:ILE:HG13	1.85	0.57
2:H:266:ARG:HA	2:H:288:ARG:HD2	1.85	0.57
2:H:502:PRO:HB2	2:H:509:ALA:CB	2.34	0.57
2:H:878:SER:HA	3:I:1034:GLN:NE2	2.19	0.57
2:H:901:TYR:CD1	2:H:901:TYR:N	2.72	0.57
2:H:946:ARG:NH2	3:I:859:ASP:HB3	2.19	0.57
2:H:1001:VAL:HB	3:I:724:GLN:NE2	2.19	0.57
2:H:1052:MET:SD	2:H:1056:LYS:HD3	2.45	0.57
3:I:520:LEU:CD1	3:I:521:PRO:HD2	2.34	0.57
3:I:814:ALA:HB1	3:I:818:ARG:NH2	2.18	0.57
3:I:914:LEU:HD22	3:I:930:LEU:HD21	1.87	0.57
3:I:1264:GLU:HG2	3:I:1266:ARG:HH21	1.70	0.57
1:K:45:LEU:HD11	1:K:177:VAL:CG2	2.35	0.57
1:L:39:PRO:O	1:L:43:ILE:HG12	2.03	0.57
1:L:52:ALA:HB1	1:L:170:VAL:H	1.69	0.57
1:L:54:THR:HG21	1:L:158:ILE:HG13	1.86	0.57
2:M:122:THR:HG22	2:M:123:GLU:N	2.19	0.57
2:M:498:GLN:HE21	2:M:499:ALA:H	1.52	0.57
2:M:756:VAL:HB	2:M:790:LEU:HB3	1.87	0.57
2:M:958:THR:CG2	2:M:961:GLU:HG3	2.30	0.57
3:N:39:PRO:O	3:N:40:GLU:O	2.22	0.57
3:N:1080:GLY:HA2	7:Z:49:GLU:HG3	1.85	0.57
3:N:1264:GLU:OE2	3:N:1424:VAL:N	2.38	0.57
3:N:1330:ILE:HG13	3:N:1347:TYR:HE1	1.70	0.57
2:C:153:ALA:O	2:C:155:PRO:HD3	2.05	0.57
2:C:1019:GLN:CD	3:D:621:LYS:HB3	2.29	0.57
3:D:787:LEU:C	3:D:787:LEU:HD12	2.30	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:789:LEU:HD11	3:D:934:LEU:HD22	1.87	0.57
3:D:982:PHE:HD2	3:D:982:PHE:H	1.52	0.57
1:F:18:ARG:O	1:F:207:PRO:HD3	2.05	0.57
1:G:185:ARG:NH1	3:I:692:GLU:HB2	2.18	0.57
2:H:94:LEU:HD12	2:H:94:LEU:C	2.30	0.57
2:H:171:TRP:CH2	2:H:417:GLY:O	2.58	0.57
2:H:468:ARG:HG2	2:H:486:MET:O	2.04	0.57
2:H:512:ARG:HA	2:H:523:ILE:HD11	1.85	0.57
3:I:525:ARG:O	3:I:525:ARG:HG2	2.03	0.57
3:I:893:GLU:O	3:I:896:ALA:HB3	2.05	0.57
1:K:198:ARG:HD3	1:K:200:TRP:CH2	2.40	0.57
2:M:211:LEU:CD2	2:M:221:LEU:CD2	2.82	0.57
2:M:224:GLU:CD	2:M:227:PHE:HD1	2.13	0.57
3:N:133:ILE:O	3:N:152:LEU:HB2	2.05	0.57
3:N:875:THR:CG2	3:N:879:ARG:CB	2.83	0.57
3:N:1043:GLY:O	3:N:1057:VAL:N	2.34	0.57
3:N:1253:THR:HB	3:N:1258:ARG:HD3	1.87	0.57
1:B:56:VAL:HG13	1:B:142:VAL:HG12	1.86	0.56
1:B:59:GLU:OE2	1:B:139:ASN:CB	2.53	0.56
2:C:455:LEU:CD1	2:C:455:LEU:C	2.78	0.56
3:D:394:LEU:HD23	3:D:394:LEU:H	1.69	0.56
3:D:465:LEU:HD21	3:D:509:PRO:CB	2.26	0.56
3:D:781:PRO:HB2	3:D:786:ILE:HD11	1.86	0.56
3:D:1094:LEU:HG	3:D:1098:LEU:HD11	1.87	0.56
3:D:1209:LEU:HD21	4:E:16:LYS:NZ	2.19	0.56
3:D:1481:VAL:HG12	3:D:1481:VAL:O	2.03	0.56
1:G:56:VAL:O	1:G:164:ALA:HB1	2.06	0.56
2:H:153:ALA:O	2:H:155:PRO:HD3	2.05	0.56
2:H:254:VAL:HA	2:H:257:VAL:HG23	1.86	0.56
2:H:795:GLY:O	2:H:796:GLU:HG2	2.05	0.56
2:H:1016:ILE:HG13	2:H:1017:THR:N	2.20	0.56
3:I:810:GLU:C	3:I:812:ALA:H	2.11	0.56
3:I:857:ILE:CD1	3:I:857:ILE:H	2.17	0.56
3:I:1397:LYS:HE2	3:I:1432:LYS:HZ1	1.70	0.56
1:K:39:PRO:HG3	1:L:39:PRO:HG3	1.86	0.56
2:M:50:GLU:HG2	2:M:51:THR:HG23	1.87	0.56
2:M:127:PHE:CE1	2:M:136:ILE:HD13	2.40	0.56
2:M:289:THR:HG22	2:M:290:LEU:HD23	1.87	0.56
2:M:504:GLU:O	2:M:504:GLU:CG	2.53	0.56
3:N:204:LEU:HD11	3:N:441:ARG:NH1	2.19	0.56
3:N:699:VAL:HA	3:N:718:PRO:HD3	1.86	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:959:GLU:O	3:N:962:GLN:HB3	2.05	0.56
3:N:1459:LEU:HD23	3:N:1465:ASN:ND2	2.19	0.56
7:Y:6:LYS:HZ3	7:Y:6:LYS:HB2	1.70	0.56
1:B:152:PRO:HG2	3:D:857:ILE:CD1	2.35	0.56
2:C:500:ASN:N	2:C:500:ASN:ND2	2.51	0.56
2:C:1086:ARG:CB	2:C:1112:PHE:HE2	2.04	0.56
3:D:198:ARG:HG3	3:D:198:ARG:NH1	2.17	0.56
3:D:206:ARG:HB3	3:D:207:PHE:CD1	2.40	0.56
3:D:684:LYS:HB2	3:D:687:VAL:HG23	1.87	0.56
3:D:782:SER:O	3:D:785:ILE:CD1	2.52	0.56
3:D:1231:GLU:CB	3:D:1232:PRO:HD3	2.34	0.56
2:H:338:GLU:CA	2:H:341:THR:HG22	2.35	0.56
2:H:598:GLU:HB2	2:H:615:TYR:OH	2.05	0.56
3:I:54:LYS:HG3	3:I:55:ASP:N	2.20	0.56
3:I:1198:TYR:OH	3:I:1432:LYS:HD3	2.05	0.56
1:L:25:LEU:CD2	1:L:28:LEU:HD21	2.35	0.56
2:M:119:PRO:HG2	2:M:386:PHE:CD2	2.40	0.56
2:M:196:LEU:O	2:M:199:VAL:HB	2.05	0.56
2:M:722:ILE:O	2:M:722:ILE:HD13	2.04	0.56
2:M:794:PRO:HG2	2:M:1025:ALA:C	2.30	0.56
2:M:1083:GLU:OE2	3:N:87:ARG:CZ	2.53	0.56
2:M:1105:LYS:HD2	2:M:1107:ASN:HD22	1.69	0.56
3:N:1110:ALA:O	3:N:1111:ASP:C	2.47	0.56
7:Z:28:GLU:O	7:Z:32:ILE:HG13	2.05	0.56
1:A:20:TYR:HE2	1:A:198:ARG:HB2	1.71	0.56
1:A:184:THR:HG1	1:A:192:LEU:HB2	1.64	0.56
1:A:197:LEU:HD23	1:A:197:LEU:H	1.69	0.56
1:B:79:ILE:HD12	1:B:80:LEU:N	2.21	0.56
1:B:128:HIS:CE1	1:B:131:THR:HG23	2.40	0.56
1:B:206:THR:HG22	1:B:209:GLU:H	1.71	0.56
2:C:11:GLU:HG2	2:C:537:LYS:HZ1	1.69	0.56
2:C:140:ILE:HD11	2:C:412:ALA:CA	2.28	0.56
2:C:187:ASN:O	2:C:188:LYS:HB2	2.06	0.56
2:C:571:LEU:HD21	2:C:700:TYR:HA	1.88	0.56
2:C:882:LEU:HD21	3:D:1038:LEU:CD2	2.35	0.56
3:D:47:GLU:O	3:D:51:GLY:CA	2.53	0.56
3:D:205:TYR:HD1	3:D:390:PRO:HG3	1.69	0.56
3:D:215:TYR:CE1	3:D:380:GLU:HB2	2.41	0.56
3:D:368:VAL:HB	3:D:377:VAL:CG2	2.35	0.56
3:D:402:PRO:CA	3:D:443:VAL:HG23	2.35	0.56
3:D:553:ARG:NH1	3:D:573:MET:HE1	2.20	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:577:ALA:O	3:D:580:ALA:HB3	2.05	0.56
3:D:789:LEU:CD1	3:D:911:LEU:HD21	2.35	0.56
3:D:800:LYS:HD2	3:D:804:LEU:HD22	1.88	0.56
3:D:1061:PHE:HE1	3:D:1065:LEU:HD22	1.71	0.56
3:D:1109:GLU:HG2	3:D:1202:GLN:H	1.71	0.56
3:D:1293:PHE:HZ	3:D:1302:GLU:CD	2.13	0.56
1:G:19:GLU:O	1:G:200:TRP:HA	2.04	0.56
1:G:34:VAL:HG11	2:H:978:ARG:HB3	1.87	0.56
2:H:139:GLN:HE22	2:H:415:PRO:HD3	1.69	0.56
2:H:435:TYR:HA	3:I:1071:PHE:HE2	1.70	0.56
2:H:676:ILE:HG22	2:H:988:VAL:HG13	1.86	0.56
2:H:737:LEU:HD21	2:H:741:GLY:C	2.29	0.56
2:H:878:SER:HB3	3:I:1029:ARG:HH11	1.71	0.56
2:H:890:LEU:HD21	2:H:901:TYR:CD1	2.40	0.56
2:H:1041:GLU:OE1	3:I:1223:ILE:HD11	2.05	0.56
3:I:54:LYS:CG	3:I:55:ASP:N	2.68	0.56
3:I:700:VAL:HG22	3:I:718:PRO:HG3	1.86	0.56
3:I:1031:ASN:OD1	3:I:1033:GLN:HB3	2.04	0.56
1:K:67:THR:CG2	2:M:627:ARG:HD2	2.36	0.56
1:K:124:ASN:HD21	1:K:127:LEU:HD22	1.70	0.56
2:M:64:LEU:HD22	2:M:359:MET:CG	2.29	0.56
2:M:197:LEU:HA	2:M:200:LEU:HD21	1.85	0.56
2:M:204:GLN:OE1	2:M:204:GLN:N	2.38	0.56
2:M:732:ALA:O	2:M:735:ARG:HG3	2.06	0.56
3:N:55:ASP:N	3:N:55:ASP:OD1	2.37	0.56
3:N:119:SER:OG	3:N:123:LEU:HD22	2.05	0.56
3:N:141:ILE:HG13	3:N:448:GLU:OE2	2.04	0.56
3:N:142:LEU:O	3:N:161:LEU:HD23	2.05	0.56
3:N:170:PRO:HA	3:N:392:SER:CB	2.35	0.56
3:N:356:PRO:CA	3:N:441:ARG:HA	2.35	0.56
3:N:470:LEU:HD12	3:N:503:LEU:CD2	2.36	0.56
3:N:581:LEU:H	3:N:581:LEU:CD2	2.16	0.56
3:N:789:LEU:O	3:N:792:ILE:HG23	2.05	0.56
3:N:1128:VAL:O	3:N:1129:THR:HG22	2.04	0.56
3:N:1391:GLU:OE1	3:N:1393:GLN:NE2	2.38	0.56
4:O:37:ASN:ND2	4:O:93:TYR:CD2	2.72	0.56
1:A:167:VAL:HG12	1:A:168:ASP:N	2.19	0.56
2:C:226:VAL:HG13	2:C:227:PHE:CD1	2.41	0.56
2:C:579:VAL:HB	2:C:890:LEU:HD22	1.86	0.56
2:C:676:ILE:HG22	2:C:988:VAL:O	2.04	0.56
3:D:495:ARG:O	3:D:499:VAL:HG23	2.04	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:767:HIS:HA	3:D:924:MET:SD	2.45	0.56
3:D:1261:GLU:OE1	3:D:1268:PRO:HA	2.05	0.56
2:H:439:CYS:HB2	2:H:541:SER:HB2	1.87	0.56
2:H:464:LEU:HD12	2:H:464:LEU:O	2.06	0.56
2:H:555:ALA:HA	3:I:1070:TYR:OH	2.05	0.56
3:I:670:VAL:HG13	3:I:671:LYS:N	2.20	0.56
3:I:953:ASP:OD1	3:I:1019:PRO:HG2	2.05	0.56
2:M:47:ALA:O	2:M:348:LEU:HD23	2.05	0.56
2:M:931:GLY:C	2:M:933:GLY:N	2.60	0.56
2:M:1084:SER:O	2:M:1087:VAL:HG12	2.05	0.56
2:M:1102:LEU:HA	2:M:1107:ASN:O	2.05	0.56
3:N:799:LYS:O	3:N:826:PRO:HG2	2.05	0.56
4:O:54:LEU:HA	4:O:58:PRO:CG	2.36	0.56
1:A:161:ARG:CZ	1:F:102:LYS:HE3	2.34	0.56
1:B:56:VAL:CG1	1:B:140:MET:HE3	2.34	0.56
1:B:170:VAL:HG11	3:D:848:GLU:OE2	2.06	0.56
2:C:670:GLN:NE2	2:C:699:PHE:O	2.38	0.56
2:C:897:LEU:HD21	2:C:921:ALA:CA	2.35	0.56
2:C:1097:LEU:HD21	3:D:1447:LEU:HB3	1.86	0.56
3:D:820:GLU:C	3:D:820:GLU:CD	2.74	0.56
3:D:875:THR:HG22	3:D:879:ARG:HB2	1.87	0.56
3:D:1448:THR:O	3:D:1451:ALA:HB3	2.06	0.56
2:H:281:LEU:O	2:H:282:GLY:O	2.24	0.56
2:H:606:VAL:HG21	2:H:645:VAL:N	2.20	0.56
3:I:655:PRO:O	3:I:658:LEU:HB2	2.05	0.56
3:I:806:PHE:CD1	3:I:809:PRO:O	2.58	0.56
3:I:826:PRO:C	3:I:828:LYS:H	2.14	0.56
3:I:1066:THR:HG22	3:I:1069:GLU:CD	2.30	0.56
3:I:1281:VAL:HG12	3:I:1282:ARG:N	2.20	0.56
4:J:41:GLU:N	4:J:42:PRO:CD	2.69	0.56
2:M:159:ILE:C	2:M:159:ILE:HD12	2.30	0.56
2:M:260:LEU:CA	2:M:291:ALA:HB1	2.35	0.56
3:N:543:LEU:HD21	3:N:600:LEU:HD13	1.87	0.56
3:N:889:ALA:HB1	3:N:930:LEU:HA	1.88	0.56
3:N:1209:LEU:O	3:N:1210:SER:C	2.47	0.56
3:N:1459:LEU:CD2	3:N:1470:ARG:HH21	2.19	0.56
7:Z:83:ILE:CD1	7:Z:89:VAL:HG21	2.36	0.56
2:C:202:TYR:CZ	2:C:304:LEU:HD22	2.41	0.56
2:C:221:LEU:C	2:C:223:ASP:N	2.57	0.56
2:C:863:ASP:CG	2:C:865:THR:HG22	2.31	0.56
3:D:1042:ARG:CB	3:D:1042:ARG:HH11	2.19	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:83:ASP:O	4:E:86:GLN:HG2	2.05	0.56
1:G:30:ARG:HH12	2:H:854:PRO:HB3	1.71	0.56
1:G:40:LEU:HD21	1:G:215:VAL:HG12	1.88	0.56
2:H:265:ARG:HB3	2:H:267:TYR:CD2	2.41	0.56
2:H:275:TYR:CD2	2:H:276:LYS:HG3	2.41	0.56
2:H:441:VAL:HG12	2:H:559:LEU:HA	1.87	0.56
2:H:554:ASP:HB2	3:I:1061:PHE:HE2	1.69	0.56
2:H:838:LYS:O	2:H:838:LYS:HG3	2.04	0.56
4:J:13:VAL:HG11	4:J:18:ARG:HB3	1.85	0.56
1:K:14:ARG:HH22	1:K:24:VAL:HG23	1.70	0.56
1:L:24:VAL:HG13	1:L:196:THR:HG22	1.88	0.56
2:M:78:PHE:HB3	2:M:79:PRO:CD	2.36	0.56
2:M:129:ILE:N	2:M:129:ILE:HD12	2.20	0.56
2:M:206:THR:HG23	2:M:207:LEU:N	2.19	0.56
2:M:430:VAL:O	2:M:430:VAL:HG13	2.04	0.56
2:M:678:PRO:HG3	2:M:873:PRO:HD2	1.87	0.56
2:M:762:LYS:HE3	2:M:786:LYS:CE	2.36	0.56
3:N:982:PHE:HA	7:Z:125:MET:SD	2.46	0.56
3:N:1065:LEU:HD23	3:N:1070:TYR:HD2	1.71	0.56
3:N:1462:LEU:N	3:N:1462:LEU:HD23	2.20	0.56
1:A:102:LYS:HE3	1:F:57:TYR:HE2	1.70	0.56
2:C:218:VAL:HG23	2:C:311:PHE:CE1	2.38	0.56
2:C:261:ILE:H	2:C:261:ILE:HD12	1.70	0.56
2:C:680:ASP:O	3:D:939:PHE:HB3	2.04	0.56
2:C:925:TYR:C	2:C:925:TYR:CD2	2.83	0.56
3:D:157:GLU:HA	3:D:160:GLU:HB3	1.86	0.56
3:D:1108:ARG:HD3	3:D:1108:ARG:H	1.68	0.56
1:F:24:VAL:HG13	1:F:196:THR:CG2	2.32	0.56
2:H:300:ASP:C	2:H:302:VAL:N	2.61	0.56
2:H:317:VAL:O	2:H:317:VAL:HG12	2.04	0.56
3:I:142:LEU:HD23	3:I:146:PRO:HA	1.88	0.56
1:K:175:ARG:HD3	1:K:176:ARG:HG2	1.88	0.56
1:L:41:ARG:HG3	1:L:177:VAL:CG2	2.32	0.56
1:L:185:ARG:HD3	3:N:692:GLU:OE2	2.05	0.56
2:M:77:PRO:CD	2:M:91:GLN:O	2.54	0.56
2:M:931:GLY:O	2:M:933:GLY:N	2.39	0.56
3:N:95:LEU:CD2	3:N:574:LEU:HD21	2.36	0.56
3:N:204:LEU:HB3	3:N:394:LEU:HG	1.86	0.56
3:N:700:VAL:HB	3:N:748:HIS:O	2.05	0.56
3:N:1145:TYR:CD2	3:N:1168:MET:SD	2.99	0.56
3:N:1169:ASP:O	3:N:1172:HIS:HB2	2.06	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1381:VAL:HG21	3:N:1391:GLU:HB2	1.87	0.56
3:N:1457:ASP:O	3:N:1459:LEU:HD12	2.06	0.56
4:O:37:ASN:HD22	4:O:37:ASN:N	2.03	0.56
7:Z:82:VAL:HG13	7:Z:132:HIS:O	2.05	0.56
1:A:26:GLU:OE2	1:A:194:LYS:HE3	2.06	0.56
2:C:94:LEU:HD12	2:C:95:TYR:O	2.06	0.56
2:C:140:ILE:HD12	2:C:140:ILE:O	2.05	0.56
2:C:170:PRO:HG2	2:C:258:TYR:HE1	1.68	0.56
2:C:544:THR:C	2:C:546:LEU:H	2.13	0.56
2:C:588:VAL:HG11	2:C:661:SER:HB3	1.86	0.56
3:D:10:ILE:O	3:D:1454:GLY:HA2	2.05	0.56
3:D:176:ASP:HB2	3:D:388:HIS:C	2.30	0.56
3:D:639:LEU:HD22	3:D:766:ALA:HA	1.88	0.56
3:D:1221:VAL:O	3:D:1222:GLY:C	2.49	0.56
3:D:1223:ILE:HD11	3:D:1462:LEU:HD12	1.88	0.56
3:D:1291:SER:HB2	3:D:1293:PHE:CE1	2.39	0.56
2:H:200:LEU:HD13	2:H:300:ASP:CG	2.31	0.56
2:H:285:LEU:HD11	2:H:288:ARG:O	2.06	0.56
2:H:302:VAL:C	2:H:305:PRO:HD2	2.30	0.56
2:H:642:ARG:HG2	2:H:657:ASP:OD2	2.06	0.56
2:H:1046:ALA:CB	3:I:1476:THR:HB	2.36	0.56
3:I:577:ALA:O	3:I:580:ALA:HB3	2.06	0.56
3:I:954:ALA:O	3:I:1062:ARG:NH1	2.36	0.56
3:I:1173:LEU:HD12	3:I:1176:LYS:CE	2.35	0.56
3:I:1274:ILE:HG13	3:I:1334:GLN:NE2	2.20	0.56
2:M:578:VAL:HG11	2:M:991:GLN:HB3	1.87	0.56
2:M:657:ASP:HB3	2:M:661:SER:O	2.06	0.56
2:M:937:ASP:HB3	2:M:940:GLU:HG3	1.88	0.56
3:N:181:ASP:CB	3:N:441:ARG:HD3	2.34	0.56
3:N:215:TYR:HA	3:N:382:GLU:O	2.05	0.56
3:N:366:LYS:NZ	3:N:376:GLU:OE1	2.34	0.56
3:N:704:ARG:HH12	3:N:743:ASP:CG	2.14	0.56
3:N:1235:GLN:HB2	7:Z:37:MET:CE	2.11	0.56
4:O:46:PRO:HB2	4:O:54:LEU:CD2	2.36	0.56
2:C:64:LEU:CD2	2:C:359:MET:HG3	2.36	0.56
2:C:89:THR:HG21	2:C:383:ARG:HH22	1.70	0.56
2:C:642:ARG:O	2:C:642:ARG:HD3	2.05	0.56
2:C:691:SER:O	2:C:692:GLU:C	2.49	0.56
2:C:708:TYR:CE2	2:C:793:PRO:HD2	2.40	0.56
2:C:722:ILE:CG2	2:C:821:GLU:OE1	2.54	0.56
3:D:181:ASP:CA	3:D:205:TYR:HB3	2.35	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:540:LEU:H	3:D:540:LEU:HD12	1.70	0.56
3:D:826:PRO:HD2	3:D:829:VAL:CG2	2.36	0.56
3:D:1099:VAL:O	3:D:1103:HIS:CB	2.50	0.56
3:D:1108:ARG:NH2	3:D:1198:TYR:O	2.39	0.56
3:D:1326:THR:CG2	3:D:1327:ARG:H	2.19	0.56
3:I:47:GLU:O	3:I:51:GLY:N	2.38	0.56
3:I:127:LEU:HD23	3:I:134:VAL:HG13	1.88	0.56
3:I:139:GLY:H	3:I:147:VAL:HG21	1.70	0.56
3:I:1209:LEU:HD23	3:I:1211:MET:N	2.05	0.56
3:I:1435:LEU:HD21	3:I:1468:LEU:HD21	1.88	0.56
4:J:85:LEU:HD23	4:J:85:LEU:C	2.31	0.56
1:K:75:VAL:O	1:K:79:ILE:HG23	2.05	0.56
2:M:289:THR:C	2:M:291:ALA:N	2.64	0.56
2:M:429:ASP:CG	3:N:1079:LYS:HE2	2.31	0.56
2:M:1000:MET:HE3	2:M:1002:GLU:HB3	1.88	0.56
3:N:440:VAL:HB	3:N:441:ARG:HH21	1.71	0.56
3:N:554:LEU:HD13	3:N:570:GLU:HB3	1.88	0.56
3:N:759:ALA:O	3:N:763:MET:HB3	2.05	0.56
3:N:955:VAL:O	3:N:1039:CYS:HB3	2.05	0.56
3:N:1299:PHE:N	3:N:1299:PHE:CD2	2.72	0.56
4:O:30:LEU:HD22	4:O:35:PHE:CZ	2.41	0.56
7:Z:15:LEU:HD22	7:Z:65:LEU:HD22	1.87	0.56
7:Z:29:ALA:O	7:Z:32:ILE:HB	2.05	0.56
2:C:194:VAL:O	2:C:197:LEU:HB2	2.06	0.56
2:C:405:ARG:HD2	2:C:442:GLU:OE1	2.06	0.56
2:C:442:GLU:CG	2:C:454:SER:HB2	2.34	0.56
2:C:571:LEU:HD11	2:C:701:THR:H	1.71	0.56
2:C:1038:TRP:CE2	3:D:1099:VAL:HG11	2.41	0.56
3:D:584:ASN:CG	3:D:590:PRO:HD2	2.30	0.56
3:D:1263:PHE:HB3	3:D:1424:VAL:CG1	2.36	0.56
1:F:161:ARG:HB2	1:F:161:ARG:CZ	2.35	0.56
2:H:642:ARG:NH1	2:H:657:ASP:OD2	2.39	0.56
2:H:684:PHE:CD2	2:H:685:GLU:N	2.74	0.56
2:H:691:SER:O	2:H:692:GLU:C	2.49	0.56
3:I:185:VAL:CG2	3:I:189:GLN:HE22	2.11	0.56
3:I:1104:GLU:HG3	3:I:1105:ILE:HD13	1.88	0.56
3:I:1209:LEU:HD22	3:I:1211:MET:HB3	1.86	0.56
3:N:154:THR:HG23	3:N:157:GLU:H	1.71	0.56
3:N:1098:LEU:HD21	3:N:1229:ILE:HB	1.87	0.56
7:X:91:LEU:HB3	7:X:149:PHE:HB3	1.88	0.56
1:B:23:PHE:O	1:B:196:THR:HA	2.07	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:13:ILE:HG13	2:C:13:ILE:O	2.05	0.55
2:C:151:ASP:CG	2:C:152:PRO:HD2	2.31	0.55
2:C:274:ARG:NE	2:C:285:LEU:HD22	2.21	0.55
2:C:588:VAL:CG1	2:C:661:SER:HB3	2.36	0.55
3:D:170:PRO:HA	3:D:392:SER:HB3	1.88	0.55
3:D:347:VAL:HG13	3:D:351:MET:CB	2.31	0.55
3:D:1189:ARG:HH11	3:D:1189:ARG:HG3	1.70	0.55
3:D:1452:ILE:HD13	3:D:1452:ILE:H	1.71	0.55
1:F:221:HIS:HA	1:F:224:TYR:HD2	1.71	0.55
2:H:986:PRO:O	2:H:987:ILE:HD13	2.06	0.55
3:I:29:PRO:CB	3:I:545:ARG:HG3	2.36	0.55
3:I:714:GLN:HG3	3:I:736:PHE:CZ	2.41	0.55
3:I:1047:LYS:NZ	3:I:1053:PHE:HA	2.21	0.55
3:I:1129:THR:HG23	3:I:1130:ARG:H	1.71	0.55
1:K:44:LEU:HD23	1:K:48:ILE:CD1	2.28	0.55
1:L:19:GLU:HG3	1:L:201:THR:O	2.05	0.55
1:L:81:ASN:O	1:L:84:GLU:HB3	2.06	0.55
2:M:94:LEU:HD12	2:M:95:TYR:O	2.07	0.55
2:M:486:MET:CE	2:M:491:GLU:HA	2.37	0.55
2:M:730:SER:O	2:M:734:LEU:HD13	2.06	0.55
1:A:56:VAL:HG12	1:A:57:TYR:N	2.20	0.55
2:C:931:GLY:C	2:C:933:GLY:H	2.13	0.55
3:D:13:ALA:HB1	3:D:18:ILE:CD1	2.36	0.55
3:D:947:ILE:HD12	3:D:947:ILE:C	2.30	0.55
3:D:1216:SER:HB3	4:E:15:SER:OG	2.05	0.55
4:E:68:LEU:HD12	4:E:73:LEU:HD22	1.87	0.55
2:H:12:VAL:CG1	2:H:534:VAL:HG13	2.36	0.55
2:H:341:THR:O	2:H:345:ARG:HD3	2.06	0.55
2:H:380:ALA:O	2:H:384:GLU:HB2	2.06	0.55
2:H:620:LEU:HD12	2:H:620:LEU:O	2.06	0.55
2:H:927:GLY:HA2	2:H:930:LYS:CD	2.36	0.55
2:H:931:GLY:O	2:H:933:GLY:N	2.39	0.55
2:H:1083:GLU:OE1	3:I:87:ARG:NH1	2.38	0.55
3:I:84:ILE:HG13	3:I:85:VAL:N	2.21	0.55
3:I:493:ARG:HG3	3:I:494:LYS:N	2.20	0.55
3:I:889:ALA:HB1	3:I:930:LEU:HA	1.89	0.55
3:I:1106:VAL:HG11	3:I:1474:ALA:HB2	1.88	0.55
1:L:33:GLY:O	1:L:195:LEU:HD22	2.06	0.55
2:M:80:GLN:O	2:M:83:CYS:HB2	2.07	0.55
2:M:177:GLU:OE1	2:M:179:ASN:HB2	2.06	0.55
2:M:432:ARG:HH22	3:N:1047:LYS:CE	2.18	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:573:ARG:O	2:M:670:GLN:NE2	2.39	0.55
2:M:1044:GLY:HA2	3:N:1475:GLY:HA3	1.89	0.55
3:N:434:ARG:HB3	3:N:447:VAL:CG2	2.36	0.55
3:N:1063:GLU:CD	3:N:1064:GLY:H	2.14	0.55
3:N:1106:VAL:CG1	3:N:1107:VAL:H	2.18	0.55
3:N:1388:ARG:O	3:N:1391:GLU:HG3	2.06	0.55
3:N:1485:GLN:O	4:O:75:PHE:HA	2.06	0.55
2:C:56:GLU:HB3	2:C:64:LEU:HB3	1.87	0.55
2:C:1096:ALA:N	3:D:101:HIS:NE2	2.52	0.55
3:D:348:GLN:H	3:D:351:MET:HE2	1.71	0.55
3:D:481:MET:SD	3:D:1388:ARG:HD3	2.46	0.55
3:D:493:ARG:HG3	3:D:494:LYS:H	1.71	0.55
3:D:1401:GLU:CD	3:D:1415:VAL:HG11	2.32	0.55
1:G:179:PHE:HD2	1:G:179:PHE:N	2.04	0.55
2:H:98:LEU:HD11	2:H:113:VAL:HG23	1.88	0.55
2:H:142:ARG:HD3	2:H:325:ILE:HG23	1.87	0.55
2:H:263:ASP:C	2:H:264:PRO:O	2.48	0.55
2:H:293:PHE:C	2:H:293:PHE:HD1	2.13	0.55
2:H:425:PHE:CE2	3:I:1079:LYS:HD3	2.40	0.55
2:H:688:ILE:HD13	2:H:847:GLY:HA3	1.88	0.55
2:H:931:GLY:C	2:H:933:GLY:N	2.59	0.55
3:I:689:ASP:O	3:I:693:GLU:HB2	2.06	0.55
3:I:780:LYS:HD3	3:I:912:LYS:HE3	1.87	0.55
3:I:1273:VAL:HG21	3:I:1305:LEU:HD21	1.88	0.55
1:L:175:ARG:HH11	1:L:202:ASP:HB3	1.71	0.55
2:M:96:ALA:O	2:M:98:LEU:CD1	2.55	0.55
2:M:281:LEU:O	2:M:282:GLY:C	2.49	0.55
2:M:757:GLY:HA2	2:M:789:SER:OG	2.06	0.55
2:M:1087:VAL:O	2:M:1091:GLU:HG3	2.05	0.55
3:N:154:THR:CG2	3:N:157:GLU:OE2	2.54	0.55
3:N:411:THR:HG23	3:N:435:VAL:O	2.06	0.55
3:N:970:LYS:HG2	3:N:995:LEU:CD1	2.36	0.55
3:N:1194:CYS:SG	3:N:1200:VAL:HA	2.46	0.55
3:N:1209:LEU:HD23	3:N:1210:SER:N	2.21	0.55
3:N:1372:VAL:HG23	3:N:1375:MET:HE3	1.88	0.55
3:N:1434:TRP:NE1	3:N:1435:LEU:HD13	2.22	0.55
2:C:54:ILE:HG23	2:C:54:ILE:O	2.06	0.55
2:C:1102:LEU:HA	2:C:1107:ASN:O	2.07	0.55
3:D:409:VAL:HG12	3:D:410:SER:O	2.05	0.55
3:D:1101:VAL:HG11	3:D:1424:VAL:HG23	1.88	0.55
3:D:1468:LEU:CD1	3:D:1470:ARG:HD3	2.36	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1468:LEU:O	3:D:1468:LEU:HD23	2.06	0.55
1:F:29:GLU:HB2	1:F:32:PHE:CE1	2.41	0.55
2:H:6:PHE:HZ	2:H:901:TYR:CD2	2.22	0.55
2:H:943:VAL:HG23	2:H:985:GLY:H	1.71	0.55
2:H:1051:GLU:HG2	2:H:1056:LYS:HE3	1.89	0.55
3:I:637:LEU:HD11	3:I:641:GLN:HB2	1.89	0.55
3:I:1101:VAL:CG1	3:I:1424:VAL:O	2.55	0.55
3:I:1495:ILE:HG13	4:J:80:VAL:CG1	2.37	0.55
3:N:354:VAL:O	3:N:354:VAL:HG12	2.06	0.55
3:N:590:PRO:O	3:N:600:LEU:HD12	2.06	0.55
3:N:939:PHE:O	3:N:943:THR:HG23	2.07	0.55
4:O:70:THR:HB	4:O:72:ARG:CG	2.36	0.55
7:Z:127:LYS:C	7:Z:127:LYS:HD3	2.31	0.55
1:A:61:VAL:HG11	1:A:75:VAL:HG21	1.87	0.55
1:A:215:VAL:HG13	1:B:222:LEU:HD22	1.88	0.55
1:B:147:GLY:HA3	1:B:171:PHE:CE2	2.41	0.55
2:C:508:ILE:CD1	2:C:526:PRO:HB3	2.35	0.55
2:C:679:PHE:C	3:D:943:THR:CG2	2.80	0.55
2:C:808:ARG:O	2:C:810:ASP:N	2.38	0.55
2:C:850:ALA:HA	3:D:632:VAL:HG13	1.88	0.55
2:C:1034:GLU:HG3	2:C:1038:TRP:CZ2	2.42	0.55
3:D:572:ARG:O	3:D:573:MET:C	2.50	0.55
3:D:642:CYS:HB3	3:D:716:PHE:HB3	1.88	0.55
3:D:911:LEU:O	3:D:915:VAL:HG23	2.07	0.55
3:D:984:THR:HG23	3:D:987:GLU:H	1.71	0.55
1:F:156:HIS:HD2	1:F:157:GLY:N	2.04	0.55
2:H:455:LEU:HD13	2:H:459:ALA:CB	2.27	0.55
2:H:557:ARG:HH11	2:H:557:ARG:HG3	1.70	0.55
2:H:575:GLN:C	2:H:667:ALA:HB1	2.32	0.55
2:H:642:ARG:CZ	2:H:657:ASP:OD2	2.54	0.55
2:H:937:ASP:O	2:H:941:VAL:HG23	2.06	0.55
2:H:1001:VAL:HG11	3:I:724:GLN:HG3	1.88	0.55
2:H:1013:TYR:HB3	2:H:1018:GLN:NE2	2.19	0.55
2:H:1014:SER:HB2	2:H:1021:LEU:HD12	1.89	0.55
2:H:1041:GLU:OE1	3:I:1462:LEU:HD12	2.05	0.55
3:I:1198:TYR:OH	3:I:1394:VAL:HG11	2.06	0.55
2:M:198:ARG:HD2	2:M:204:GLN:OE1	2.06	0.55
2:M:1004:LYS:HD2	3:N:744:GLN:HE22	1.66	0.55
2:M:1082:PRO:C	2:M:1084:SER:H	2.13	0.55
3:N:730:PRO:O	3:N:733:CYS:HB2	2.07	0.55
3:N:804:LEU:HD13	3:N:829:VAL:HB	1.89	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1165:TYR:HD1	3:N:1165:TYR:H	1.54	0.55
3:N:1280:VAL:O	3:N:1294:VAL:HA	2.06	0.55
3:N:1372:VAL:O	3:N:1375:MET:HB2	2.07	0.55
3:N:1429:LEU:O	3:N:1441:GLN:NE2	2.40	0.55
1:A:156:HIS:CE1	1:A:158:ILE:HD11	2.41	0.55
2:C:158:TYR:CE1	2:C:313:LEU:HD11	2.41	0.55
2:C:196:LEU:O	2:C:199:VAL:HB	2.07	0.55
3:D:142:LEU:HD23	3:D:145:VAL:C	2.31	0.55
3:D:210:ARG:HD3	3:D:344:ASP:OD1	2.06	0.55
3:D:554:LEU:HD21	3:D:571:LYS:HD3	1.88	0.55
3:D:606:ILE:O	3:D:613:ARG:CG	2.54	0.55
3:D:800:LYS:CB	3:D:829:VAL:HG13	2.31	0.55
3:D:833:GLU:HA	3:D:833:GLU:OE2	2.06	0.55
4:E:54:LEU:CG	4:E:58:PRO:HG3	2.36	0.55
2:H:367:LEU:HD23	2:H:371:LYS:HE3	1.87	0.55
2:H:480:THR:HG21	2:H:482:GLU:HB2	1.88	0.55
2:H:573:ARG:HB2	2:H:670:GLN:HE22	1.72	0.55
2:H:737:LEU:CD2	2:H:742:VAL:O	2.54	0.55
2:H:843:HIS:CD2	2:H:884:GLN:HA	2.41	0.55
2:H:981:GLU:HG3	2:H:982:PRO:HD2	1.88	0.55
3:I:203:ALA:HA	3:I:395:VAL:HG22	1.89	0.55
3:I:1040:GLY:O	3:I:1041:LEU:HB3	2.07	0.55
3:I:1124:GLN:OE1	3:I:1135:ARG:HA	2.07	0.55
3:I:1169:ASP:O	3:I:1172:HIS:HB2	2.07	0.55
3:I:1465:ASN:HD21	3:I:1470:ARG:CB	2.19	0.55
2:M:218:VAL:HG13	2:M:221:LEU:HD21	1.89	0.55
2:M:224:GLU:OE1	2:M:226:VAL:HG12	2.07	0.55
2:M:251:ASP:C	2:M:253:ALA:H	2.15	0.55
2:M:293:PHE:C	2:M:293:PHE:HD1	2.14	0.55
2:M:808:ARG:O	2:M:810:ASP:N	2.39	0.55
2:M:831:ARG:NH1	2:M:1000:MET:SD	2.79	0.55
3:N:126:VAL:O	3:N:130:SER:HB3	2.06	0.55
3:N:445:ARG:HG2	3:N:445:ARG:NH1	2.20	0.55
3:N:770:LEU:HD22	3:N:775:GLY:O	2.07	0.55
3:N:810:GLU:C	3:N:812:ALA:H	2.13	0.55
3:N:984:THR:CG2	3:N:987:GLU:H	2.17	0.55
3:N:1397:LYS:HE2	3:N:1432:LYS:HZ2	1.72	0.55
7:X:26:LEU:HD13	7:X:58:ILE:HG21	1.89	0.55
1:B:80:LEU:HG	3:D:844:ALA:CA	2.36	0.55
1:B:162:ILE:HD12	1:B:162:ILE:O	2.07	0.55
2:C:302:VAL:HG13	2:C:303:PHE:H	1.72	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:854:PRO:O	2:C:855:VAL:C	2.50	0.55
3:D:1031:ASN:OD1	3:D:1034:GLN:HG3	2.07	0.55
3:D:1091:SER:CB	5:P:19:DC:H5'	2.34	0.55
1:F:48:ILE:HG23	1:F:49:PRO:HD2	1.89	0.55
1:F:48:ILE:HG22	1:F:49:PRO:HD2	1.88	0.55
2:H:73:LEU:HB2	2:H:93:PRO:O	2.07	0.55
2:H:382:ILE:CD1	2:H:382:ILE:H	2.20	0.55
2:H:469:THR:OG1	2:H:470:PRO:HD2	2.07	0.55
2:H:571:LEU:HD11	2:H:701:THR:N	2.21	0.55
3:I:436:GLU:CD	3:I:447:VAL:HG22	2.31	0.55
3:I:810:GLU:C	3:I:812:ALA:N	2.63	0.55
3:I:1495:ILE:HG13	4:J:80:VAL:HG13	1.88	0.55
4:J:37:ASN:N	4:J:37:ASN:HD22	2.04	0.55
1:K:43:ILE:HD11	1:L:35:THR:HG21	1.87	0.55
1:K:84:GLU:HB3	1:K:127:LEU:HD21	1.88	0.55
1:K:109:VAL:HG21	1:K:138:LEU:HD23	1.89	0.55
1:L:206:THR:HG22	1:L:209:GLU:H	1.71	0.55
2:M:302:VAL:C	2:M:305:PRO:HD2	2.31	0.55
2:M:766:GLU:CD	3:N:37:LEU:HD21	2.31	0.55
2:M:874:LEU:O	3:N:1029:ARG:CD	2.45	0.55
2:M:966:LEU:HD21	2:M:986:PRO:HG3	1.88	0.55
3:N:501:ALA:HB1	3:N:1452:ILE:HG22	1.88	0.55
3:N:918:ALA:CB	3:N:927:THR:HG23	2.36	0.55
3:N:952:ASP:HA	3:N:1062:ARG:HH21	1.71	0.55
3:N:1066:THR:HG22	3:N:1069:GLU:CB	2.33	0.55
1:A:25:LEU:CD2	1:A:28:LEU:HD11	2.30	0.55
1:B:101:LEU:HD12	1:B:114:PHE:N	2.22	0.55
2:C:333:ILE:HD13	2:C:467:ILE:HG13	1.89	0.55
3:D:506:GLY:O	3:D:507:ASN:C	2.49	0.55
3:D:1041:LEU:HB2	3:D:1059:SER:O	2.07	0.55
3:D:1144:LEU:CD2	3:D:1186:VAL:HG11	2.36	0.55
3:D:1433:SER:OG	3:D:1457:ASP:OD2	2.25	0.55
3:D:1467:ILE:HD13	3:D:1467:ILE:N	2.22	0.55
1:F:101:LEU:HD23	1:F:102:LYS:N	2.22	0.55
1:G:84:GLU:HB3	1:G:127:LEU:HD21	1.88	0.55
2:H:304:LEU:HG	2:H:305:PRO:HD3	1.89	0.55
2:H:816:LYS:HB2	2:H:819:VAL:CG2	2.37	0.55
2:H:1066:ALA:O	2:H:1070:ILE:HG12	2.07	0.55
3:I:658:LEU:O	3:I:661:MET:HB2	2.06	0.55
3:I:1026:SER:C	3:I:1028:ALA:N	2.63	0.55
3:I:1481:VAL:O	3:I:1481:VAL:HG12	2.07	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:140:ILE:HD11	2:M:412:ALA:CA	2.35	0.55
2:M:234:ALA:HA	2:M:237:ARG:HB2	1.89	0.55
2:M:272:ALA:O	2:M:276:LYS:NZ	2.24	0.55
2:M:333:ILE:HD12	2:M:410:ILE:HG12	1.89	0.55
2:M:404:LEU:O	2:M:408:ARG:HG2	2.07	0.55
3:N:795:VAL:CG2	3:N:879:ARG:NH1	2.65	0.55
7:Y:5:VAL:CG1	7:Y:72:ALA:HB2	2.37	0.55
2:C:110:GLU:HG3	2:C:369:PRO:CG	2.36	0.55
2:C:672:VAL:HG21	2:C:869:VAL:HG11	1.87	0.55
2:C:1046:ALA:CB	3:D:1472:ILE:HD11	2.37	0.55
3:D:208:PRO:HG2	3:D:347:VAL:HG11	1.89	0.55
3:D:857:ILE:HG22	3:D:858:VAL:HG13	1.89	0.55
3:D:1034:GLN:O	3:D:1037:GLN:N	2.38	0.55
3:D:1094:LEU:HG	3:D:1098:LEU:HD21	1.89	0.55
3:D:1128:VAL:HB	3:D:1133:ARG:HH22	1.72	0.55
3:D:1189:ARG:HB3	3:D:1204:CYS:HA	1.88	0.55
1:F:45:LEU:HD11	1:F:177:VAL:HG21	1.89	0.55
1:G:41:ARG:NH1	1:G:177:VAL:O	2.36	0.55
1:G:58:ILE:CD1	1:G:140:MET:HB3	2.36	0.55
2:H:140:ILE:HD12	2:H:140:ILE:C	2.32	0.55
2:H:289:THR:C	2:H:291:ALA:N	2.64	0.55
2:H:507:ARG:HG3	2:H:508:ILE:N	2.21	0.55
2:H:708:TYR:HE1	2:H:827:VAL:HB	1.72	0.55
2:H:769:PRO:HG2	3:I:36:THR:HA	1.88	0.55
2:H:771:GLU:O	2:H:775:ARG:HG2	2.07	0.55
2:H:1102:LEU:HA	2:H:1107:ASN:O	2.07	0.55
3:I:473:LEU:O	3:I:477:LEU:HG	2.06	0.55
3:I:1330:ILE:HD12	3:I:1347:TYR:CE1	2.42	0.55
2:M:193:LEU:H	2:M:193:LEU:CD1	2.18	0.55
2:M:309:TYR:HE2	2:M:321:GLU:HB3	1.72	0.55
3:N:84:ILE:O	3:N:87:ARG:HG3	2.06	0.55
3:N:355:VAL:HG11	3:N:385:VAL:HG21	1.86	0.55
3:N:807:ALA:HA	3:N:833:GLU:HG2	1.88	0.55
3:N:908:LYS:NZ	7:Z:35:GLU:OE1	2.35	0.55
3:N:1221:VAL:O	3:N:1222:GLY:C	2.47	0.55
2:C:292:ARG:HD2	2:C:299:LYS:CD	2.37	0.55
2:C:339:LEU:O	2:C:342:ASP:HB3	2.07	0.55
2:C:897:LEU:HB3	2:C:899:GLN:NE2	2.19	0.55
3:D:17:LYS:O	3:D:20:SER:HB3	2.07	0.55
3:D:553:ARG:HD2	3:D:570:GLU:OE1	2.07	0.55
3:D:798:GLU:HG2	3:D:799:LYS:H	1.71	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:59:GLU:HG3	1:G:139:ASN:ND2	2.20	0.55
2:H:642:ARG:CG	2:H:657:ASP:OD2	2.55	0.55
3:I:1211:MET:SD	3:I:1213:ARG:HG2	2.47	0.55
1:K:132:LEU:HD23	1:K:136:GLY:O	2.07	0.55
2:M:182:VAL:O	2:M:193:LEU:CD1	2.55	0.55
2:M:224:GLU:HB3	2:M:228:ALA:H	1.71	0.55
2:M:471:TYR:OH	2:M:491:GLU:CD	2.50	0.55
2:M:496:ILE:HG13	2:M:531:PHE:HB2	1.89	0.55
2:M:610:ARG:HG3	2:M:610:ARG:NH1	2.22	0.55
2:M:690:ILE:HD13	2:M:690:ILE:C	2.32	0.55
2:M:997:LEU:C	2:M:999:HIS:N	2.65	0.55
2:M:1052:MET:HG3	3:N:623:VAL:HG22	1.89	0.55
3:N:166:GLN:CD	3:N:394:LEU:HD12	2.32	0.55
3:N:572:ARG:O	3:N:573:MET:C	2.50	0.55
3:N:1281:VAL:HG12	3:N:1282:ARG:N	2.22	0.55
3:N:1422:MET:HE3	3:N:1426:LYS:HB3	1.88	0.55
7:X:19:LEU:HD22	7:X:69:LEU:HD12	1.89	0.55
7:X:102:VAL:CG1	7:X:103:GLN:N	2.69	0.55
1:B:41:ARG:HH11	1:B:177:VAL:HG23	1.70	0.54
2:C:182:VAL:O	2:C:193:LEU:HD13	2.06	0.54
3:D:486:ARG:HA	3:D:489:ARG:CG	2.36	0.54
3:D:902:LEU:H	3:D:902:LEU:CD2	2.13	0.54
3:D:1194:CYS:HB3	3:D:1373:ARG:HH12	1.71	0.54
3:D:1408:ILE:HD12	3:D:1408:ILE:N	2.19	0.54
1:F:70:GLY:N	2:H:607:ASP:OD1	2.36	0.54
1:F:150:TYR:CE2	1:F:152:PRO:HG3	2.42	0.54
2:H:457:ALA:HB3	2:H:538:GLN:HA	1.89	0.54
2:H:998:TYR:O	2:H:998:TYR:CG	2.59	0.54
2:H:1024:LYS:CG	2:H:1025:ALA:N	2.61	0.54
3:I:116:LEU:HD22	3:I:118:LEU:CG	2.37	0.54
3:I:800:LYS:CE	3:I:824:ASN:O	2.55	0.54
3:I:996:TRP:HA	3:I:999:THR:HG22	1.90	0.54
1:L:186:LEU:O	1:L:187:GLY:C	2.50	0.54
2:M:86:LYS:O	2:M:87:ASP:HB2	2.07	0.54
3:N:87:ARG:HB2	3:N:524:LEU:HD12	1.89	0.54
3:N:367:ILE:HB	3:N:377:VAL:CG1	2.33	0.54
3:N:850:LEU:O	3:N:853:VAL:HB	2.07	0.54
3:N:1362:LYS:CD	7:Z:34:GLN:HE22	2.20	0.54
3:N:1462:LEU:O	3:N:1466:VAL:HG23	2.07	0.54
3:N:1487:VAL:HG12	3:N:1488:ASP:N	2.23	0.54
1:A:97:VAL:HG12	1:A:99:LEU:HD12	1.90	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:395:LYS:HE2	2:C:403:SER:HB2	1.89	0.54
2:C:503:LEU:HD23	2:C:507:ARG:C	2.32	0.54
2:C:582:GLY:C	2:C:583:LEU:HD12	2.33	0.54
2:C:876:VAL:O	2:C:879:ARG:O	2.26	0.54
3:D:658:LEU:O	3:D:661:MET:HB2	2.07	0.54
4:E:32:ARG:NH1	4:E:32:ARG:HB2	2.22	0.54
1:G:48:ILE:HD12	1:G:174:VAL:HG21	1.87	0.54
1:G:190:THR:O	1:G:190:THR:HG22	2.06	0.54
2:H:34:VAL:HB	2:H:38:LYS:HG3	1.88	0.54
2:H:589:ARG:HH21	2:H:596:TYR:HE2	1.53	0.54
3:I:1109:GLU:CG	3:I:1202:GLN:H	2.20	0.54
2:M:352:ALA:C	2:M:355:VAL:HG12	2.31	0.54
2:M:575:GLN:O	2:M:667:ALA:HB1	2.07	0.54
2:M:668:LEU:N	2:M:668:LEU:CD1	2.69	0.54
2:M:1019:GLN:HG3	3:N:621:LYS:HD2	1.90	0.54
2:M:1097:LEU:CD1	3:N:1451:ALA:CB	2.76	0.54
3:N:176:ASP:OD2	3:N:177:ALA:N	2.40	0.54
3:N:182:GLY:H	3:N:357:GLU:HG2	1.72	0.54
3:N:639:LEU:HD22	3:N:766:ALA:HA	1.88	0.54
3:N:1047:LYS:HB3	3:N:1048:PRO:HD2	1.90	0.54
3:N:1310:ARG:HB2	3:N:1327:ARG:HD2	1.87	0.54
3:N:1434:TRP:NE1	3:N:1435:LEU:CD1	2.70	0.54
1:A:62:LEU:H	1:A:62:LEU:CD1	2.17	0.54
1:A:168:ASP:OD1	2:C:832:LYS:NZ	2.40	0.54
1:B:62:LEU:H	1:B:62:LEU:CD1	2.15	0.54
1:B:124:ASN:CG	1:B:127:LEU:HD22	2.32	0.54
1:B:206:THR:HG22	1:B:209:GLU:OE1	2.07	0.54
2:C:89:THR:CA	2:C:129:ILE:O	2.52	0.54
2:C:205:GLU:HB3	2:C:209:ARG:NH1	2.22	0.54
2:C:304:LEU:HG	2:C:305:PRO:CD	2.35	0.54
2:C:516:ARG:NE	3:D:1068:LEU:HD13	2.22	0.54
2:C:606:VAL:HG21	2:C:645:VAL:N	2.22	0.54
2:C:761:PHE:HE2	2:C:764:GLU:O	1.91	0.54
3:D:956:ILE:HG13	3:D:1039:CYS:O	2.07	0.54
3:D:980:MET:CB	3:D:982:PHE:CE2	2.90	0.54
3:D:1101:VAL:HG11	3:D:1424:VAL:O	2.08	0.54
3:D:1273:VAL:O	3:D:1325:LEU:HB2	2.08	0.54
1:G:190:THR:HB	3:I:722:GLU:OE1	2.07	0.54
2:H:1014:SER:HB3	2:H:1017:THR:O	2.06	0.54
2:H:1074:GLU:HG2	2:H:1075:ASP:N	2.15	0.54
3:I:147:VAL:HG23	3:I:162:ARG:HH22	1.72	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:1278:ASP:HB3	3:I:1321:ALA:N	2.22	0.54
1:K:99:LEU:HB2	1:K:142:VAL:CG2	2.37	0.54
2:M:36:PRO:HG2	2:M:70:GLU:HG2	1.88	0.54
3:N:593:ASN:O	3:N:594:PRO:C	2.48	0.54
3:N:1415:VAL:O	3:N:1417:TRP:HE3	1.90	0.54
4:O:69:LEU:O	4:O:69:LEU:HD23	2.07	0.54
7:Z:54:GLU:O	7:Z:58:ILE:HD13	2.07	0.54
2:C:110:GLU:HB2	2:C:369:PRO:HD3	1.89	0.54
2:C:437:ARG:HH22	2:C:488:ALA:HA	1.72	0.54
2:C:946:ARG:O	2:C:950:LEU:HB2	2.07	0.54
2:C:1097:LEU:CD1	3:D:1451:ALA:CB	2.85	0.54
3:D:520:LEU:HD12	3:D:521:PRO:HD2	1.88	0.54
3:D:793:THR:HG21	3:D:906:GLN:HG2	1.88	0.54
3:D:1235:GLN:CB	7:X:37:MET:HE3	2.31	0.54
3:D:1256:LEU:HG	3:D:1260:ILE:HD11	1.88	0.54
1:F:128:HIS:CE1	1:F:131:THR:HG23	2.42	0.54
2:H:115:LEU:HD22	2:H:373:VAL:HG13	1.88	0.54
2:H:853:LEU:CB	2:H:858:MET:CE	2.81	0.54
2:H:872:ASN:HD21	2:H:874:LEU:HB2	1.73	0.54
3:I:563:PRO:HB2	3:I:566:ILE:HD13	1.90	0.54
3:I:695:ILE:HD12	3:I:698:LYS:HB2	1.89	0.54
3:I:729:HIS:HD1	3:I:731:LEU:N	2.05	0.54
3:I:829:VAL:O	3:I:835:SER:HB3	2.08	0.54
3:I:984:THR:HG23	3:I:987:GLU:H	1.71	0.54
3:I:996:TRP:HA	3:I:999:THR:CG2	2.37	0.54
3:I:1273:VAL:HG23	3:I:1273:VAL:O	2.07	0.54
2:M:12:VAL:HG22	2:M:13:ILE:HG23	1.89	0.54
2:M:207:LEU:HD22	2:M:221:LEU:CD1	2.37	0.54
2:M:498:GLN:HA	2:M:498:GLN:NE2	2.22	0.54
2:M:1034:GLU:HA	2:M:1037:VAL:CG2	2.37	0.54
3:N:63:TYR:HB3	3:N:68:PHE:CE1	2.42	0.54
3:N:1114:THR:CG2	3:N:1114:THR:O	2.56	0.54
7:X:57:ARG:NH2	7:X:61:ARG:HD2	2.23	0.54
1:A:12:THR:OG1	1:A:24:VAL:HB	2.07	0.54
1:A:56:VAL:HG12	1:A:57:TYR:H	1.72	0.54
2:C:771:GLU:O	2:C:771:GLU:HG2	2.05	0.54
2:C:1090:LYS:HZ3	2:C:1112:PHE:HE1	1.54	0.54
3:D:119:SER:HB2	3:D:123:LEU:N	2.22	0.54
3:D:842:VAL:HA	3:D:865:THR:OG1	2.07	0.54
3:D:1137:ARG:HG3	3:D:1137:ARG:HH11	1.72	0.54
1:G:56:VAL:CG1	1:G:57:TYR:H	2.20	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:89:PHE:HD1	1:G:120:VAL:HG13	1.71	0.54
2:H:199:VAL:CG2	2:H:238:LEU:HD12	2.32	0.54
1:K:26:GLU:HB2	1:K:27:PRO:HA	1.89	0.54
2:M:110:GLU:HB2	2:M:368:THR:CG2	2.37	0.54
3:N:949:ILE:N	3:N:949:ILE:HD12	2.21	0.54
3:N:1071:PHE:O	3:N:1074:SER:HB3	2.08	0.54
3:N:1326:THR:CG2	3:N:1327:ARG:H	2.17	0.54
3:N:1482:ARG:HH21	3:N:1483:PHE:HZ	1.54	0.54
4:O:59:ASN:HD22	4:O:60:ALA:N	2.04	0.54
4:O:67:GLU:C	4:O:73:LEU:HD11	2.33	0.54
7:Y:59:GLU:O	7:Y:62:ILE:HB	2.07	0.54
1:B:141:GLU:OE2	1:B:161:ARG:HD3	2.06	0.54
1:B:146:ARG:HG3	1:B:146:ARG:O	2.07	0.54
2:C:249:LYS:HD2	2:C:250:ARG:N	2.22	0.54
2:C:281:LEU:O	2:C:282:GLY:O	2.24	0.54
2:C:384:GLU:O	2:C:388:ARG:HB2	2.08	0.54
2:C:408:ARG:NH1	2:C:542:VAL:HG21	2.22	0.54
2:C:855:VAL:HG13	2:C:856:GLU:N	2.23	0.54
3:D:397:LYS:HG2	3:D:397:LYS:O	2.08	0.54
3:D:799:LYS:O	3:D:826:PRO:HG2	2.08	0.54
3:D:1101:VAL:CG1	3:D:1424:VAL:O	2.55	0.54
4:E:59:ASN:CB	4:E:62:THR:OG1	2.55	0.54
1:G:38:ASN:HB3	1:G:39:PRO:HD3	1.89	0.54
1:G:89:PHE:CD1	1:G:120:VAL:HG13	2.42	0.54
2:H:305:PRO:HA	2:H:308:ARG:HB2	1.89	0.54
2:H:953:VAL:O	2:H:955:PRO:HD3	2.08	0.54
3:I:603:LEU:O	3:I:606:ILE:CG2	2.56	0.54
3:I:628:ARG:HH11	3:I:628:ARG:HG3	1.72	0.54
3:I:670:VAL:HG13	3:I:671:LYS:HG3	1.90	0.54
3:I:984:THR:CG2	3:I:987:GLU:H	2.20	0.54
3:I:1109:GLU:HG2	3:I:1202:GLN:N	2.21	0.54
3:I:1197:ARG:HB3	3:I:1396:GLU:HG2	1.89	0.54
3:I:1221:VAL:O	3:I:1222:GLY:C	2.50	0.54
1:L:65:PHE:N	1:L:65:PHE:CD1	2.75	0.54
1:L:206:THR:HG22	1:L:209:GLU:CG	2.38	0.54
2:M:274:ARG:CG	2:M:285:LEU:HD13	2.38	0.54
2:M:428:ARG:CG	2:M:451:LEU:HD21	2.37	0.54
2:M:462:ASP:CB	2:M:468:ARG:HH11	2.19	0.54
2:M:524:VAL:CG1	2:M:525:SER:N	2.71	0.54
3:N:158:TYR:CE1	3:N:452:ILE:HD11	2.38	0.54
7:Z:14:ARG:HB3	7:Z:14:ARG:HH11	1.73	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:111:ASP:O	2:C:112:GLU:CG	2.56	0.54
2:C:404:LEU:HA	2:C:407:LYS:HD3	1.90	0.54
2:C:707:ARG:HG3	2:C:826:TYR:CE1	2.43	0.54
3:D:51:GLY:C	3:D:86:ARG:HD3	2.32	0.54
3:D:628:ARG:HG3	3:D:628:ARG:NH1	2.22	0.54
3:D:1029:ARG:NH1	3:D:1029:ARG:HG2	2.23	0.54
3:D:1114:THR:HG22	3:D:1195:GLN:HB3	1.90	0.54
3:D:1225:ALA:O	3:D:1229:ILE:HG13	2.07	0.54
3:D:1331:ASP:OD2	3:D:1332:PRO:HD2	2.08	0.54
1:F:168:ASP:OD1	2:H:832:LYS:NZ	2.41	0.54
1:G:76:VAL:HB	3:I:872:ARG:NH1	2.23	0.54
2:H:183:SER:OG	2:H:190:LYS:HD3	2.07	0.54
2:H:612:VAL:HG22	2:H:622:GLU:HG3	1.88	0.54
2:H:794:PRO:HG2	2:H:1025:ALA:C	2.33	0.54
2:H:1005:MET:HE1	3:I:724:GLN:CA	2.38	0.54
3:I:15:PRO:HA	3:I:18:ILE:CD1	2.36	0.54
3:I:637:LEU:HD11	3:I:642:CYS:N	2.23	0.54
3:I:658:LEU:HA	3:I:661:MET:HG3	1.89	0.54
3:I:795:VAL:HG12	3:I:796:ARG:N	2.22	0.54
2:M:66:LEU:HD13	2:M:100:LEU:HB2	1.89	0.54
2:M:147:TYR:O	2:M:148:PHE:CD2	2.60	0.54
2:M:195:LEU:HD12	2:M:195:LEU:C	2.32	0.54
2:M:943:VAL:HG23	2:M:985:GLY:H	1.72	0.54
2:M:1104:GLU:HG2	3:N:3:LYS:H	1.72	0.54
3:N:639:LEU:N	3:N:729:HIS:ND1	2.56	0.54
3:N:1326:THR:CG2	3:N:1327:ARG:N	2.69	0.54
7:Z:7:LEU:O	7:Z:74:ILE:HG23	2.07	0.54
1:B:179:PHE:HD2	1:B:179:PHE:N	2.05	0.54
2:C:174:LEU:HD21	2:C:184:MET:HG3	1.90	0.54
3:D:185:VAL:HG21	3:D:203:ALA:CB	2.38	0.54
3:D:553:ARG:O	3:D:557:LEU:HG	2.08	0.54
3:D:820:GLU:HG3	3:D:836:VAL:HG21	1.90	0.54
3:D:1119:SER:HA	3:D:1186:VAL:O	2.08	0.54
1:F:101:LEU:HD12	1:F:114:PHE:N	2.23	0.54
1:F:133:GLU:OE2	2:H:605:LYS:HB3	2.08	0.54
2:H:447:ALA:HA	3:I:1085:ALA:HB1	1.90	0.54
2:H:724:ARG:HD2	2:H:738:ASP:O	2.07	0.54
1:K:67:THR:HG22	2:M:627:ARG:CZ	2.37	0.54
1:K:216:GLU:O	1:K:220:GLU:HG3	2.07	0.54
2:M:22:GLN:HB3	2:M:121:MET:CE	2.38	0.54
2:M:704:HIS:HB2	2:M:831:ARG:HE	1.72	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:900:ARG:HH11	2:M:900:ARG:HG3	1.73	0.54
2:M:1104:GLU:CG	3:N:3:LYS:HB2	2.37	0.54
3:N:387:LEU:H	3:N:387:LEU:CD1	2.11	0.54
3:N:506:GLY:O	3:N:507:ASN:C	2.51	0.54
3:N:633:VAL:HB	3:N:740:PHE:CE1	2.43	0.54
4:O:41:GLU:HG2	4:O:42:PRO:N	2.20	0.54
2:C:239:PHE:HZ	2:C:252:LYS:CA	2.14	0.54
2:C:501:THR:HG22	2:C:513:VAL:HG13	1.90	0.54
2:C:762:LYS:HG3	2:C:763:GLY:H	1.72	0.54
2:C:762:LYS:O	2:C:764:GLU:N	2.41	0.54
2:C:850:ALA:HA	3:D:632:VAL:HG11	1.90	0.54
2:C:987:ILE:HD11	3:D:946:GLY:CA	2.38	0.54
3:D:62:LYS:HE2	3:D:62:LYS:HA	1.89	0.54
3:D:460:ALA:C	3:D:461:ILE:HD13	2.33	0.54
3:D:658:LEU:HA	3:D:661:MET:HG3	1.90	0.54
3:D:880:ILE:HG23	3:D:881:LEU:N	2.21	0.54
4:E:69:LEU:O	4:E:69:LEU:HD23	2.08	0.54
1:G:106:PRO:HG2	1:G:134:GLU:OE1	2.08	0.54
2:H:263:ASP:HB2	2:H:264:PRO:CD	2.37	0.54
2:H:392:SER:C	2:H:393:GLN:HG3	2.32	0.54
2:H:676:ILE:HD13	2:H:871:LEU:HB2	1.90	0.54
2:H:677:MET:C	2:H:873:PRO:HD3	2.33	0.54
2:H:680:ASP:O	3:I:939:PHE:HB3	2.07	0.54
2:H:769:PRO:HG2	3:I:37:LEU:H	1.72	0.54
2:H:987:ILE:HD12	3:I:948:THR:HG23	1.89	0.54
3:I:415:VAL:HG12	3:I:416:ALA:N	2.22	0.54
3:I:1263:PHE:O	3:I:1424:VAL:HG12	2.08	0.54
1:L:83:LYS:HE2	1:L:168:ASP:HB2	1.90	0.54
2:M:91:GLN:NE2	2:M:117:HIS:HB3	2.23	0.54
2:M:140:ILE:HG23	2:M:410:ILE:HG21	1.90	0.54
2:M:616:GLU:CD	2:M:648:ARG:HH12	2.16	0.54
3:N:1277:ILE:HD12	3:N:1277:ILE:N	2.23	0.54
3:N:1377:LYS:HE2	3:N:1378:TYR:OH	2.07	0.54
4:O:41:GLU:N	4:O:42:PRO:HD3	2.23	0.54
1:B:186:LEU:O	1:B:187:GLY:C	2.51	0.54
2:C:389:SER:C	2:C:391:LEU:H	2.16	0.54
2:C:537:LYS:HG3	2:C:545:ASN:OD1	2.08	0.54
2:C:1043:TYR:CE2	3:D:710:ARG:HD2	2.42	0.54
3:D:57:GLU:HG3	3:D:64:LYS:HD2	1.89	0.54
3:D:384:VAL:HG12	3:D:385:VAL:N	2.23	0.54
3:D:1281:VAL:HG21	3:D:1313:VAL:HG21	1.90	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1326:THR:CG2	3:D:1327:ARG:N	2.71	0.54
1:G:179:PHE:N	1:G:179:PHE:CD2	2.75	0.54
2:H:259:GLY:O	2:H:291:ALA:CA	2.54	0.54
2:H:267:TYR:CG	2:H:272:ALA:CB	2.91	0.54
2:H:304:LEU:CG	2:H:305:PRO:HD3	2.37	0.54
2:H:352:ALA:HA	2:H:355:VAL:HG11	1.89	0.54
2:H:404:LEU:O	2:H:407:LYS:HB2	2.07	0.54
2:H:598:GLU:N	2:H:615:TYR:OH	2.41	0.54
2:H:897:LEU:HD21	2:H:921:ALA:HA	1.90	0.54
3:I:1101:VAL:CG2	3:I:1424:VAL:HG23	2.38	0.54
1:K:20:TYR:HD2	1:K:21:GLY:H	1.56	0.54
1:K:46:SER:HB3	2:M:856:GLU:CD	2.33	0.54
1:L:73:GLU:OE1	1:L:128:HIS:HE1	1.91	0.54
2:M:6:PHE:CZ	2:M:901:TYR:HD2	2.24	0.54
2:M:9:ILE:O	2:M:9:ILE:HG13	2.08	0.54
2:M:73:LEU:C	2:M:73:LEU:HD12	2.33	0.54
2:M:337:GLY:O	2:M:341:THR:HG22	2.08	0.54
2:M:501:THR:HG22	2:M:513:VAL:HG13	1.90	0.54
3:N:970:LYS:HE3	3:N:973:GLN:NE2	2.23	0.54
3:N:996:TRP:O	3:N:999:THR:HG22	2.07	0.54
3:N:1112:CYS:CB	3:N:1195:GLN:HG2	2.38	0.54
7:Z:6:LYS:HG2	7:Z:75:LEU:HD11	1.90	0.54
3:D:116:LEU:O	3:D:117:ASP:HB3	2.07	0.53
3:D:1136:LYS:HB2	3:D:1139:ASP:OD2	2.08	0.53
1:F:26:GLU:HG2	1:F:27:PRO:CG	2.38	0.53
1:F:211:LEU:HD12	1:F:215:VAL:HG23	1.90	0.53
2:H:224:GLU:HB2	2:H:228:ALA:HB2	1.89	0.53
2:H:496:ILE:HG13	2:H:531:PHE:CB	2.38	0.53
2:H:666:LEU:HD12	2:H:667:ALA:H	1.72	0.53
2:H:684:PHE:CG	2:H:685:GLU:N	2.74	0.53
2:H:697:ARG:HD2	2:H:699:PHE:CD1	2.43	0.53
2:H:893:ALA:HB1	2:H:897:LEU:HD12	1.88	0.53
2:H:906:PHE:CZ	3:I:1067:VAL:HA	2.43	0.53
3:I:93:ILE:HG22	3:I:551:ASN:ND2	2.24	0.53
3:I:804:LEU:CD2	3:I:829:VAL:HB	2.37	0.53
4:J:26:ARG:O	4:J:30:LEU:HD13	2.08	0.53
1:K:91:ASN:ND2	1:K:93:SER:HB2	2.24	0.53
2:M:159:ILE:HD12	2:M:159:ILE:O	2.09	0.53
2:M:283:ILE:CG2	2:M:284:ARG:N	2.71	0.53
2:M:496:ILE:O	2:M:515:ALA:HB1	2.09	0.53
2:M:515:ALA:O	2:M:516:ARG:HD3	2.08	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:691:SER:O	2:M:692:GLU:C	2.51	0.53
2:M:806:LEU:HD12	2:M:822:VAL:CG2	2.37	0.53
2:M:861:LEU:HD22	2:M:863:ASP:OD1	2.08	0.53
3:N:507:ASN:H	3:N:507:ASN:ND2	2.06	0.53
3:N:637:LEU:HD21	3:N:642:CYS:HA	1.89	0.53
3:N:1109:GLU:CG	3:N:1202:GLN:H	2.20	0.53
3:N:1225:ALA:HB2	3:N:1370:ILE:HD12	1.90	0.53
1:A:26:GLU:HB2	1:A:27:PRO:HA	1.88	0.53
1:A:124:ASN:HD21	1:A:127:LEU:HD22	1.73	0.53
2:C:259:GLY:O	2:C:291:ALA:CA	2.56	0.53
2:C:593:ALA:HB1	2:C:659:PRO:HD2	1.90	0.53
2:C:872:ASN:ND2	2:C:874:LEU:HB2	2.22	0.53
3:D:521:PRO:C	3:D:525:ARG:HH11	2.16	0.53
3:D:1109:GLU:CG	3:D:1201:CYS:HB2	2.38	0.53
3:D:1144:LEU:HD21	3:D:1186:VAL:CG1	2.36	0.53
2:H:101:ILE:CG2	2:H:107:LEU:HD22	2.14	0.53
2:H:158:TYR:CD1	2:H:158:TYR:N	2.77	0.53
2:H:274:ARG:HG3	2:H:285:LEU:CB	2.33	0.53
2:H:278:GLU:OE2	2:H:283:ILE:O	2.25	0.53
3:I:116:LEU:O	3:I:117:ASP:HB3	2.07	0.53
3:I:603:LEU:CA	3:I:606:ILE:HG22	2.37	0.53
3:I:687:VAL:O	3:I:690:ALA:HB3	2.09	0.53
3:I:813:LEU:CD1	3:I:814:ALA:N	2.64	0.53
3:I:1024:ALA:HA	3:I:1029:ARG:O	2.07	0.53
1:K:151:VAL:HG23	1:K:169:ALA:HB3	1.90	0.53
2:M:142:ARG:NE	2:M:325:ILE:HD12	2.22	0.53
2:M:177:GLU:OE1	2:M:179:ASN:CB	2.56	0.53
2:M:242:LEU:C	2:M:244:PRO:CD	2.81	0.53
2:M:724:ARG:O	2:M:724:ARG:HG2	2.08	0.53
2:M:742:VAL:HG12	2:M:743:VAL:N	2.23	0.53
3:N:689:ASP:O	3:N:693:GLU:HB2	2.09	0.53
3:N:1197:ARG:HA	3:N:1396:GLU:HG3	1.90	0.53
4:O:51:LEU:C	4:O:53:GLY:N	2.60	0.53
4:O:89:MET:O	4:O:93:TYR:HD1	1.91	0.53
1:B:56:VAL:CG1	1:B:57:TYR:N	2.71	0.53
1:B:170:VAL:O	1:B:170:VAL:HG23	2.08	0.53
2:C:300:ASP:O	2:C:302:VAL:N	2.42	0.53
2:C:545:ASN:HB3	2:C:583:LEU:CD2	2.38	0.53
2:C:546:LEU:C	2:C:581:THR:HG21	2.33	0.53
2:C:759:THR:HB	2:C:785:VAL:CG2	2.37	0.53
2:C:848:VAL:HG12	2:C:849:VAL:N	2.23	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:130:SER:HG	3:D:132:TYR:HD1	1.55	0.53
3:D:139:GLY:HA3	3:D:162:ARG:CZ	2.37	0.53
3:D:628:ARG:HG3	3:D:628:ARG:HH11	1.73	0.53
3:D:814:ALA:HB1	3:D:818:ARG:NH2	2.17	0.53
1:G:58:ILE:HD13	1:G:140:MET:HB2	1.91	0.53
2:H:12:VAL:HG13	2:H:13:ILE:H	1.74	0.53
2:H:12:VAL:HG13	2:H:13:ILE:N	2.23	0.53
2:H:206:THR:CG2	2:H:207:LEU:N	2.72	0.53
2:H:515:ALA:C	2:H:516:ARG:HD3	2.33	0.53
2:H:523:ILE:HD13	2:H:524:VAL:N	2.23	0.53
2:H:1097:LEU:CD1	3:I:1451:ALA:HB2	2.37	0.53
3:I:143:ASN:CB	3:I:161:LEU:HD21	2.38	0.53
3:I:150:ARG:HB3	3:I:150:ARG:HH11	1.73	0.53
3:I:198:ARG:HH11	3:I:198:ARG:HG3	1.73	0.53
3:I:699:VAL:HA	3:I:718:PRO:HD3	1.90	0.53
3:I:1034:GLN:O	3:I:1037:GLN:N	2.40	0.53
3:I:1434:TRP:CE3	3:I:1457:ASP:HB2	2.43	0.53
1:L:10:VAL:HG12	1:L:12:THR:HG23	1.88	0.53
1:L:133:GLU:CG	1:L:134:GLU:H	2.21	0.53
2:M:221:LEU:C	2:M:221:LEU:HD12	2.34	0.53
2:M:442:GLU:HG2	2:M:454:SER:OG	2.09	0.53
2:M:684:PHE:CG	2:M:685:GLU:N	2.72	0.53
2:M:737:LEU:HD21	2:M:741:GLY:H	1.72	0.53
2:M:863:ASP:OD1	2:M:865:THR:CG2	2.56	0.53
2:M:873:PRO:HB3	3:N:949:ILE:HD12	1.91	0.53
2:M:1086:ARG:HH22	2:M:1111:ILE:C	2.15	0.53
3:N:176:ASP:CG	3:N:388:HIS:O	2.52	0.53
3:N:1440:PHE:CD1	3:N:1440:PHE:N	2.75	0.53
1:A:73:GLU:OE1	1:A:130:ALA:HA	2.08	0.53
1:B:124:ASN:N	1:B:125:PRO:HD3	2.23	0.53
2:C:238:LEU:O	2:C:241:LEU:CB	2.56	0.53
2:C:699:PHE:C	2:C:700:TYR:HD1	2.16	0.53
2:C:897:LEU:HD22	2:C:920:GLN:HG2	1.91	0.53
3:D:789:LEU:O	3:D:792:ILE:HG23	2.08	0.53
3:D:826:PRO:C	3:D:828:LYS:H	2.16	0.53
3:D:1462:LEU:HD23	3:D:1473:PRO:HD2	1.90	0.53
2:H:199:VAL:HG22	2:H:235:LEU:HA	1.91	0.53
2:H:199:VAL:CG2	2:H:235:LEU:HD23	2.35	0.53
2:H:204:GLN:CD	2:H:228:ALA:HB1	2.34	0.53
2:H:221:LEU:C	2:H:223:ASP:N	2.60	0.53
2:H:461:VAL:CG1	2:H:465:GLY:HA2	2.38	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:523:ILE:HD13	2:H:523:ILE:C	2.32	0.53
2:H:544:THR:O	2:H:546:LEU:N	2.42	0.53
2:H:575:GLN:O	2:H:667:ALA:HB1	2.08	0.53
3:I:421:LEU:HB2	3:I:427:VAL:HG12	1.90	0.53
3:I:426:LYS:HE3	3:I:427:VAL:HG23	1.90	0.53
4:J:32:ARG:HH11	4:J:32:ARG:CB	2.20	0.53
1:K:226:SER:O	1:K:228:PRO:HD3	2.09	0.53
2:M:194:VAL:O	2:M:197:LEU:HB2	2.09	0.53
2:M:339:LEU:HD11	2:M:391:LEU:CD1	2.39	0.53
2:M:786:LYS:CG	2:M:787:ASP:N	2.71	0.53
3:N:133:ILE:HG22	3:N:134:VAL:H	1.72	0.53
3:N:356:PRO:HG2	3:N:442:ASN:ND2	2.23	0.53
3:N:516:ALA:O	3:N:518:PRO:HD3	2.09	0.53
3:N:615:ARG:HG3	3:N:619:LEU:HD13	1.90	0.53
3:N:669:ASN:ND2	3:N:672:ALA:H	2.06	0.53
5:P:23:DC:H2''	5:P:24:DG:H5'	1.91	0.53
7:Z:6:LYS:HZ1	7:Z:85:LEU:HG	1.72	0.53
2:C:101:ILE:HD12	2:C:107:LEU:HD13	1.89	0.53
2:C:281:LEU:HD11	2:C:306:THR:CG2	2.38	0.53
2:C:681:GLY:C	3:D:635:PRO:HG3	2.33	0.53
3:D:12:LEU:HD21	3:D:104:PHE:CE1	2.44	0.53
3:D:437:VAL:HA	3:D:444:VAL:HG22	1.90	0.53
3:D:820:GLU:HG2	3:D:825:ALA:O	2.09	0.53
3:D:1369:GLU:O	3:D:1372:VAL:HG12	2.07	0.53
4:E:47:LYS:CA	4:E:54:LEU:HB3	2.35	0.53
2:H:579:VAL:HG11	2:H:887:GLU:HG3	1.90	0.53
2:H:636:ALA:HB2	2:H:703:ILE:HB	1.91	0.53
3:I:583:ASP:OD2	3:I:604:THR:HG21	2.08	0.53
3:I:1459:LEU:CD2	3:I:1468:LEU:HD13	2.35	0.53
2:M:281:LEU:HD12	2:M:309:TYR:HB2	1.90	0.53
2:M:931:GLY:C	2:M:933:GLY:H	2.17	0.53
3:N:984:THR:CG2	3:N:987:GLU:CG	2.69	0.53
3:N:1018:ASN:OD1	3:N:1020:LEU:HB3	2.08	0.53
3:N:1065:LEU:HD23	3:N:1070:TYR:CD2	2.43	0.53
7:Y:50:ALA:O	7:Y:51:ALA:C	2.51	0.53
1:A:62:LEU:N	1:A:62:LEU:CD1	2.67	0.53
1:B:38:ASN:O	1:B:42:ARG:HG3	2.09	0.53
1:B:163:ASN:OD1	1:B:163:ASN:N	2.41	0.53
2:C:100:LEU:HD22	2:C:372:LEU:HD21	1.90	0.53
2:C:218:VAL:CG2	2:C:311:PHE:HE1	2.21	0.53
2:C:267:TYR:N	2:C:267:TYR:HD2	2.05	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:278:GLU:OE2	2:C:283:ILE:O	2.26	0.53
2:C:672:VAL:HG21	2:C:869:VAL:CG1	2.38	0.53
2:C:840:ALA:HB2	2:C:846:LYS:HG3	1.91	0.53
3:D:922:LEU:HD23	3:D:922:LEU:N	2.23	0.53
3:D:1041:LEU:CD1	3:D:1058:ARG:HA	2.39	0.53
3:D:1194:CYS:SG	3:D:1200:VAL:HA	2.49	0.53
1:G:56:VAL:HB	1:G:165:ILE:CD1	2.37	0.53
2:H:94:LEU:HD12	2:H:95:TYR:N	2.23	0.53
2:H:172:ILE:HD12	2:H:172:ILE:N	2.24	0.53
2:H:351:LEU:HD12	2:H:351:LEU:O	2.09	0.53
2:H:1092:LEU:HD21	3:I:1447:LEU:HD23	1.91	0.53
3:I:572:ARG:O	3:I:573:MET:C	2.52	0.53
3:I:982:PHE:CD2	3:I:983:LEU:N	2.76	0.53
3:I:1369:GLU:CA	3:I:1372:VAL:HG12	2.37	0.53
3:I:1372:VAL:O	3:I:1375:MET:HB2	2.08	0.53
3:I:1465:ASN:ND2	3:I:1468:LEU:HD12	2.23	0.53
1:L:24:VAL:HG22	1:L:196:THR:HG22	1.90	0.53
1:L:94:LEU:HD22	1:L:97:VAL:CG2	2.37	0.53
1:L:197:LEU:O	1:L:197:LEU:HD23	2.09	0.53
2:M:352:ALA:O	2:M:355:VAL:HG12	2.08	0.53
2:M:983:ILE:O	2:M:984:GLU:C	2.51	0.53
3:N:127:LEU:O	3:N:457:GLY:HA2	2.09	0.53
3:N:358:GLY:CA	3:N:385:VAL:HB	2.38	0.53
3:N:421:LEU:HD22	3:N:444:VAL:HG11	1.90	0.53
3:N:881:LEU:C	3:N:881:LEU:HD12	2.34	0.53
3:N:1105:ILE:CD1	3:N:1105:ILE:N	2.71	0.53
3:N:1171:VAL:O	3:N:1175:ILE:HG13	2.08	0.53
3:N:1221:VAL:CG1	3:N:1370:ILE:HD13	2.38	0.53
3:N:1283:ILE:CD1	3:N:1292:VAL:HG13	2.38	0.53
4:O:26:ARG:NH2	4:O:37:ASN:O	2.42	0.53
2:C:100:LEU:HD22	2:C:372:LEU:CD2	2.39	0.53
2:C:345:ARG:HA	2:C:348:LEU:HB2	1.90	0.53
2:C:692:GLU:HG2	2:C:696:LYS:HE3	1.90	0.53
2:C:838:LYS:NZ	2:C:846:LYS:NZ	2.57	0.53
3:D:999:THR:CG2	3:D:1000:THR:N	2.71	0.53
3:D:1371:VAL:HG12	3:D:1375:MET:CE	2.39	0.53
1:F:58:ILE:N	1:F:58:ILE:CD1	2.72	0.53
2:H:260:LEU:HA	2:H:291:ALA:HB1	1.88	0.53
2:H:408:ARG:NH2	2:H:455:LEU:HD11	2.20	0.53
2:H:625:LEU:HB3	2:H:639:GLN:HB2	1.90	0.53
2:H:683:ASN:HB2	2:H:872:ASN:HB2	1.91	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:116:LEU:HD22	3:I:118:LEU:CD1	2.39	0.53
3:I:520:LEU:O	3:I:525:ARG:NH1	2.41	0.53
3:I:657:LEU:O	3:I:661:MET:HG2	2.09	0.53
3:I:1111:ASP:CG	3:I:1203:LYS:HD2	2.34	0.53
1:L:19:GLU:O	1:L:200:TRP:HA	2.09	0.53
2:M:200:LEU:HD11	2:M:202:TYR:HD2	1.73	0.53
2:M:274:ARG:O	2:M:277:ALA:HB3	2.08	0.53
2:M:295:ASP:HB3	2:M:297:GLU:OE2	2.08	0.53
2:M:557:ARG:NH1	2:M:560:MET:HG3	2.24	0.53
2:M:786:LYS:HG2	2:M:787:ASP:N	2.23	0.53
2:M:838:LYS:HD3	2:M:846:LYS:HZ3	1.74	0.53
2:M:915:LYS:HE2	2:M:968:LEU:O	2.08	0.53
2:M:1093:GLN:HB3	3:N:21:TRP:CZ3	2.44	0.53
3:N:25:GLU:HG3	3:N:92:HIS:O	2.08	0.53
3:N:1286:THR:O	3:N:1287:GLU:CB	2.56	0.53
7:Y:48:LEU:HD12	7:Y:52:LYS:HE2	1.91	0.53
7:Y:59:GLU:HA	7:Y:62:ILE:HD12	1.91	0.53
1:A:140:MET:HE3	1:A:142:VAL:CG1	2.39	0.53
1:B:179:PHE:N	1:B:179:PHE:CD2	2.75	0.53
2:C:159:ILE:HD12	2:C:159:ILE:C	2.34	0.53
2:C:204:GLN:NE2	2:C:228:ALA:HB1	2.24	0.53
2:C:216:GLU:HG3	2:C:219:GLN:HE22	1.73	0.53
2:C:418:LEU:H	2:C:418:LEU:CD1	2.22	0.53
2:C:516:ARG:HG3	3:D:1068:LEU:HD11	1.90	0.53
2:C:548:PRO:HG2	2:C:842:ARG:NH2	2.24	0.53
3:D:52:PRO:HG2	3:D:80:VAL:HG22	1.90	0.53
3:D:415:VAL:HG12	3:D:416:ALA:N	2.24	0.53
3:D:690:ALA:O	3:D:694:VAL:HG23	2.09	0.53
3:D:838:ARG:HB3	3:D:865:THR:CG2	2.39	0.53
3:D:1029:ARG:HG2	3:D:1029:ARG:HH11	1.73	0.53
1:G:20:TYR:CD2	1:G:21:GLY:N	2.76	0.53
1:G:74:ASP:O	1:G:78:ILE:HG13	2.09	0.53
2:H:170:PRO:CG	2:H:258:TYR:HE2	1.92	0.53
2:H:474:VAL:HG13	2:H:530:GLU:C	2.34	0.53
2:H:556:ASN:OD1	7:Y:46:SER:HB3	2.08	0.53
2:H:722:ILE:CD1	2:H:823:VAL:HG21	2.39	0.53
3:I:875:THR:HG22	3:I:876:SER:N	2.20	0.53
1:L:56:VAL:HG12	1:L:57:TYR:N	2.24	0.53
1:L:133:GLU:HG3	1:L:134:GLU:N	2.24	0.53
2:M:172:ILE:H	2:M:172:ILE:CD1	2.18	0.53
2:M:342:ASP:O	2:M:346:VAL:HG23	2.08	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:389:SER:C	2:M:391:LEU:H	2.15	0.53
2:M:1003:ASP:O	2:M:1003:ASP:OD2	2.27	0.53
3:N:521:PRO:C	3:N:525:ARG:HH11	2.17	0.53
3:N:881:LEU:O	3:N:881:LEU:HD12	2.08	0.53
3:N:939:PHE:O	3:N:942:SER:HB3	2.09	0.53
3:N:1146:GLY:CA	3:N:1207:TYR:HB2	2.38	0.53
3:N:1434:TRP:HZ3	3:N:1455:LYS:O	1.91	0.53
4:O:27:ALA:O	4:O:31:LEU:HD12	2.09	0.53
7:X:99:ARG:HG3	7:X:99:ARG:NH1	2.14	0.53
7:X:105:VAL:CG2	7:X:109:GLU:HB2	2.39	0.53
7:Y:61:ARG:HG2	7:Y:61:ARG:HH21	1.72	0.53
7:Z:22:GLU:OE2	7:Z:25:ARG:NH1	2.42	0.53
1:A:123:MET:O	1:A:125:PRO:HD3	2.09	0.53
1:B:188:GLN:HG2	3:D:685:ASP:OD1	2.08	0.53
2:C:430:VAL:O	2:C:430:VAL:HG13	2.09	0.53
2:C:523:ILE:C	2:C:523:ILE:HD13	2.33	0.53
2:C:1084:SER:HA	2:C:1087:VAL:HG12	1.89	0.53
3:D:156:GLU:O	3:D:160:GLU:HB2	2.09	0.53
3:D:366:LYS:HE2	3:D:369:ALA:HB2	1.91	0.53
3:D:501:ALA:HB1	3:D:1453:ALA:CB	2.35	0.53
3:D:800:LYS:CD	3:D:804:LEU:HD22	2.39	0.53
3:D:1281:VAL:HG12	3:D:1282:ARG:N	2.24	0.53
3:D:1349:VAL:O	3:D:1352:ILE:HB	2.09	0.53
2:H:77:PRO:CD	2:H:91:GLN:O	2.57	0.53
2:H:147:TYR:O	2:H:148:PHE:CD2	2.62	0.53
2:H:205:GLU:CD	2:H:206:THR:N	2.63	0.53
2:H:430:VAL:HG13	2:H:430:VAL:O	2.09	0.53
2:H:695:LEU:HD21	2:H:832:LYS:HB3	1.90	0.53
2:H:997:LEU:C	2:H:999:HIS:N	2.67	0.53
3:I:510:GLU:O	3:I:513:ILE:HG13	2.09	0.53
3:I:603:LEU:C	3:I:606:ILE:HG22	2.34	0.53
3:I:937:TYR:HB3	3:I:941:PHE:HE1	1.73	0.53
3:I:1487:VAL:HG12	3:I:1488:ASP:N	2.23	0.53
2:M:194:VAL:O	2:M:197:LEU:N	2.42	0.53
2:M:722:ILE:HD13	2:M:722:ILE:C	2.34	0.53
2:M:762:LYS:HE3	2:M:786:LYS:HE3	1.90	0.53
2:M:861:LEU:HG	2:M:862:PRO:CD	2.29	0.53
3:N:455:ARG:HD3	3:N:459:GLU:HG2	1.91	0.53
3:N:814:ALA:HB1	3:N:818:ARG:NH2	2.24	0.53
3:N:918:ALA:HB3	3:N:927:THR:HG23	1.89	0.53
3:N:982:PHE:HB2	7:Z:125:MET:HE1	1.91	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1262:LEU:HD23	3:N:1352:ILE:CD1	2.38	0.53
4:O:38:THR:OG1	4:O:39:VAL:N	2.40	0.53
7:X:43:TYR:HB3	7:X:44:ASP:OD1	2.09	0.53
7:Y:6:LYS:HB2	7:Y:6:LYS:NZ	2.23	0.53
2:C:20:GLU:OE2	2:C:460:ARG:HB2	2.09	0.53
2:C:224:GLU:HG3	2:C:227:PHE:HB2	1.90	0.53
2:C:290:LEU:HB3	2:C:302:VAL:CG1	2.11	0.53
2:C:300:ASP:C	2:C:302:VAL:N	2.61	0.53
2:C:548:PRO:HG2	2:C:842:ARG:CZ	2.39	0.53
2:C:675:ALA:HB2	2:C:867:VAL:HG11	1.90	0.53
2:C:835:VAL:O	2:C:849:VAL:O	2.27	0.53
2:C:1091:GLU:HB3	3:D:607:LEU:HD21	1.91	0.53
3:D:50:PHE:CG	3:D:522:PRO:HD3	2.42	0.53
3:D:438:ASP:HB2	3:D:445:ARG:HH12	1.73	0.53
3:D:493:ARG:HG3	3:D:494:LYS:N	2.24	0.53
3:D:877:PRO:C	3:D:880:ILE:HG22	2.34	0.53
3:D:1147:ARG:HD2	3:D:1188:VAL:HG21	1.91	0.53
4:E:26:ARG:NH1	4:E:73:LEU:HD21	2.24	0.53
1:F:21:GLY:HA3	1:F:207:PRO:CB	2.38	0.53
2:H:305:PRO:HA	2:H:308:ARG:CB	2.39	0.53
2:H:516:ARG:CD	3:I:1068:LEU:HD22	2.39	0.53
2:H:768:THR:HB	2:H:771:GLU:HB3	1.90	0.53
3:I:61:GLY:HA3	3:I:64:LYS:HZ3	1.74	0.53
3:I:161:LEU:HG	3:I:397:LYS:NZ	2.23	0.53
4:J:91:ARG:HD2	4:J:92:LEU:HG	1.91	0.53
1:K:49:PRO:O	1:K:173:PRO:HG2	2.09	0.53
1:L:38:ASN:HB3	1:L:39:PRO:HD3	1.90	0.53
2:M:127:PHE:CD1	2:M:136:ILE:HD13	2.43	0.53
2:M:147:TYR:C	2:M:148:PHE:CD2	2.87	0.53
2:M:202:TYR:OH	2:M:304:LEU:HD22	2.08	0.53
2:M:876:VAL:O	2:M:879:ARG:O	2.26	0.53
3:N:397:LYS:HG2	3:N:397:LYS:O	2.09	0.53
3:N:845:ASN:O	3:N:848:GLU:HB2	2.08	0.53
7:Z:102:VAL:HG13	7:Z:119:ILE:HG12	1.91	0.53
1:A:88:ARG:C	1:A:120:VAL:HG23	2.33	0.52
2:C:193:LEU:HD12	2:C:193:LEU:H	1.74	0.52
2:C:251:ASP:C	2:C:253:ALA:H	2.16	0.52
2:C:653:ASP:OD1	2:C:654:LEU:HD23	2.08	0.52
3:D:157:GLU:CD	3:D:157:GLU:N	2.66	0.52
3:D:160:GLU:HA	3:D:165:LYS:CB	2.36	0.52
3:D:563:PRO:CG	3:D:566:ILE:HD12	2.37	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:702:LEU:O	3:D:713:ILE:HA	2.09	0.52
3:D:787:LEU:HD12	3:D:787:LEU:O	2.09	0.52
3:D:861:GLN:NE2	3:D:861:GLN:N	2.56	0.52
3:D:918:ALA:HB3	3:D:927:THR:HG23	1.90	0.52
3:D:1288:GLU:HG3	3:D:1289:LYS:HG3	1.91	0.52
3:D:1481:VAL:HG22	4:E:18:ARG:NH2	2.23	0.52
2:H:148:PHE:CE1	2:H:309:TYR:HB3	2.42	0.52
2:H:546:LEU:C	2:H:581:THR:HG21	2.34	0.52
2:H:725:ASP:C	2:H:726:ILE:HD12	2.34	0.52
3:I:799:LYS:O	3:I:800:LYS:CD	2.48	0.52
3:I:805:GLU:O	3:I:809:PRO:HD2	2.08	0.52
3:I:1189:ARG:HB3	3:I:1204:CYS:HA	1.91	0.52
3:I:1369:GLU:O	3:I:1370:ILE:C	2.51	0.52
1:K:167:VAL:HG12	1:K:168:ASP:N	2.24	0.52
1:K:184:THR:CG2	1:K:185:ARG:N	2.72	0.52
2:M:88:LEU:HD22	2:M:814:GLU:HG2	1.90	0.52
2:M:376:ARG:CB	2:M:377:PRO:HD3	2.39	0.52
2:M:540:PHE:CE1	2:M:550:LEU:HD23	2.45	0.52
3:N:204:LEU:HD23	3:N:394:LEU:HD11	1.91	0.52
3:N:810:GLU:C	3:N:812:ALA:N	2.63	0.52
3:N:890:VAL:CG1	3:N:922:LEU:HD13	2.39	0.52
3:N:1109:GLU:HG2	3:N:1202:GLN:N	2.23	0.52
1:B:42:ARG:HG2	1:B:42:ARG:NH1	2.21	0.52
1:B:56:VAL:HG12	1:B:57:TYR:H	1.73	0.52
1:B:57:TYR:HB2	1:B:164:ALA:HB2	1.92	0.52
2:C:52:PHE:CE1	2:C:67:ASP:C	2.88	0.52
2:C:1005:MET:HE1	3:D:724:GLN:HA	1.89	0.52
2:C:1082:PRO:C	2:C:1084:SER:N	2.63	0.52
3:D:52:PRO:N	3:D:86:ARG:CD	2.71	0.52
3:D:131:LYS:O	3:D:131:LYS:HG2	2.09	0.52
3:D:181:ASP:C	3:D:181:ASP:OD1	2.52	0.52
3:D:1041:LEU:HD12	3:D:1058:ARG:HA	1.89	0.52
3:D:1103:HIS:HD2	3:D:1463:LYS:HB2	1.73	0.52
1:F:56:VAL:CG1	1:F:57:TYR:N	2.72	0.52
1:F:131:THR:C	1:F:132:LEU:HD12	2.34	0.52
2:H:204:GLN:NE2	2:H:228:ALA:CB	2.71	0.52
2:H:1029:GLY:O	3:I:622:ARG:HB3	2.09	0.52
3:I:484:PRO:CB	3:I:488:ARG:NE	2.71	0.52
3:I:705:ALA:CB	3:I:706:PRO:HD3	2.36	0.52
3:I:843:PHE:CE2	3:I:849:ALA:HA	2.43	0.52
3:I:955:VAL:O	3:I:1039:CYS:HB3	2.08	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:1101:VAL:CG1	3:I:1424:VAL:HG23	2.39	0.52
3:I:1217:ILE:HB	3:I:1480:PHE:HD2	1.71	0.52
3:I:1434:TRP:CD1	3:I:1435:LEU:N	2.78	0.52
4:J:23:VAL:HG22	4:J:68:LEU:CD2	2.39	0.52
1:K:35:THR:HG21	1:L:43:ILE:CD1	2.39	0.52
1:K:49:PRO:HB3	1:K:148:VAL:HG22	1.91	0.52
1:L:86:VAL:CG1	1:L:124:ASN:HB2	2.35	0.52
2:M:6:PHE:CD1	2:M:6:PHE:N	2.76	0.52
2:M:20:GLU:OE2	2:M:460:ARG:HB2	2.09	0.52
2:M:579:VAL:HG11	2:M:887:GLU:HG3	1.90	0.52
2:M:861:LEU:HA	2:M:974:LEU:CD1	2.36	0.52
2:M:1088:LEU:HD23	2:M:1092:LEU:HD12	1.91	0.52
3:N:205:TYR:CE2	3:N:441:ARG:NH2	2.77	0.52
3:N:563:PRO:HG2	3:N:566:ILE:HB	1.91	0.52
3:N:1330:ILE:HB	3:N:1347:TYR:OH	2.08	0.52
3:N:1369:GLU:O	3:N:1370:ILE:C	2.52	0.52
7:Z:123:SER:O	7:Z:127:LYS:N	2.40	0.52
1:A:161:ARG:NH1	1:F:102:LYS:HE3	2.24	0.52
1:B:57:TYR:CE2	1:B:161:ARG:HG2	2.45	0.52
2:C:64:LEU:CB	2:C:359:MET:HG3	2.40	0.52
2:C:191:PHE:CZ	2:C:196:LEU:HD12	2.43	0.52
2:C:431:HIS:CD2	2:C:433:THR:OG1	2.63	0.52
2:C:806:LEU:HB2	2:C:822:VAL:HG22	1.91	0.52
2:C:1001:VAL:HG13	2:C:1004:LYS:HB3	1.91	0.52
3:D:136:ASP:HB3	3:D:453:ASP:O	2.10	0.52
3:D:438:ASP:HB2	3:D:445:ARG:NH1	2.24	0.52
3:D:550:ARG:NE	3:D:573:MET:CE	2.72	0.52
3:D:835:SER:H	3:D:838:ARG:NE	2.08	0.52
3:D:977:ALA:HB3	3:D:983:LEU:HD11	1.89	0.52
3:D:1426:LYS:HA	3:D:1429:LEU:HB2	1.91	0.52
1:F:222:LEU:HD21	1:G:218:LEU:HD23	1.90	0.52
1:G:106:PRO:HG3	1:G:134:GLU:CD	2.35	0.52
2:H:355:VAL:HG23	2:H:372:LEU:HG	1.91	0.52
2:H:953:VAL:HG11	2:H:962:GLN:HB3	1.91	0.52
3:I:506:GLY:O	3:I:507:ASN:C	2.51	0.52
3:I:593:ASN:O	3:I:594:PRO:C	2.50	0.52
3:I:1137:ARG:NH2	3:I:1172:HIS:NE2	2.57	0.52
3:I:1177:ALA:CB	3:I:1183:ILE:HD11	2.40	0.52
2:M:140:ILE:CG2	2:M:333:ILE:HD13	2.39	0.52
2:M:181:VAL:HG12	2:M:182:VAL:N	2.22	0.52
2:M:850:ALA:HA	3:N:632:VAL:CG1	2.39	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:909:ALA:HB1	2:M:914:ILE:HD11	1.91	0.52
3:N:30:GLU:OE1	3:N:30:GLU:HA	2.10	0.52
3:N:203:ALA:HB1	3:N:393:ILE:HG21	1.91	0.52
3:N:698:LYS:HB3	3:N:756:GLN:NE2	2.23	0.52
3:N:1011:PHE:HB3	3:N:1021:TYR:CD1	2.43	0.52
3:N:1190:SER:OG	3:N:1191:PRO:HD2	2.09	0.52
7:X:45:ASP:O	7:X:47:GLY:N	2.36	0.52
1:B:80:LEU:CD2	3:D:867:ARG:HB2	2.39	0.52
2:C:170:PRO:CD	2:C:258:TYR:HE1	2.22	0.52
2:C:176:VAL:HG12	2:C:182:VAL:HG13	1.91	0.52
2:C:512:ARG:CA	2:C:523:ILE:HD11	2.39	0.52
2:C:691:SER:OG	2:C:693:GLU:HB3	2.10	0.52
2:C:725:ASP:HB3	2:C:783:ARG:NH1	2.24	0.52
2:C:1095:LEU:O	2:C:1096:ALA:C	2.52	0.52
3:D:452:ILE:O	3:D:452:ILE:HD13	2.09	0.52
3:D:880:ILE:CG2	3:D:881:LEU:N	2.71	0.52
3:D:982:PHE:CD1	7:X:125:MET:SD	3.02	0.52
3:D:1314:LYS:N	3:D:1314:LYS:CD	2.69	0.52
3:D:1408:ILE:H	3:D:1408:ILE:CD1	2.21	0.52
3:D:1492:LEU:HD13	3:D:1492:LEU:C	2.33	0.52
4:E:31:LEU:HD12	4:E:32:ARG:H	1.67	0.52
1:F:75:VAL:O	1:F:79:ILE:HG23	2.09	0.52
1:G:36:LEU:N	1:G:36:LEU:HD23	2.25	0.52
1:G:186:LEU:O	1:G:187:GLY:C	2.52	0.52
2:H:147:TYR:C	2:H:148:PHE:CD2	2.88	0.52
2:H:686:ASP:O	2:H:688:ILE:CD1	2.58	0.52
2:H:687:ALA:HB1	2:H:850:ALA:HB2	1.92	0.52
2:H:946:ARG:HD2	2:H:984:GLU:HB2	1.88	0.52
3:I:127:LEU:O	3:I:457:GLY:HA2	2.09	0.52
3:I:141:ILE:CG1	3:I:448:GLU:CD	2.82	0.52
3:I:796:ARG:HG3	3:I:861:GLN:O	2.10	0.52
3:I:804:LEU:CG	3:I:831:GLY:CA	2.86	0.52
3:I:954:ALA:HB3	3:I:1062:ARG:HG2	1.91	0.52
3:I:1194:CYS:HB3	3:I:1373:ARG:NH1	2.23	0.52
3:I:1304:LYS:O	3:I:1306:PRO:HD3	2.08	0.52
1:K:198:ARG:HD3	1:K:200:TRP:HH2	1.73	0.52
2:M:50:GLU:HA	2:M:266:ARG:CZ	2.40	0.52
2:M:148:PHE:HE1	2:M:309:TYR:HD2	1.56	0.52
2:M:277:ALA:O	2:M:278:GLU:C	2.52	0.52
2:M:861:LEU:HD23	2:M:863:ASP:H	1.73	0.52
3:N:397:LYS:CG	3:N:448:GLU:HB2	2.29	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:577:ALA:O	3:N:580:ALA:HB3	2.08	0.52
3:N:885:ILE:HG23	3:N:937:TYR:CE1	2.45	0.52
7:X:45:ASP:C	7:X:47:GLY:N	2.67	0.52
7:Z:21:ARG:HG2	7:Z:21:ARG:HH11	1.73	0.52
7:Z:31:LYS:O	7:Z:34:GLN:HB3	2.10	0.52
1:A:7:LYS:O	1:A:7:LYS:HD3	2.09	0.52
1:A:73:GLU:HB3	1:A:77:GLU:HG2	1.91	0.52
1:A:104:GLU:OE1	1:A:137:ARG:HG2	2.09	0.52
1:A:174:VAL:HG13	1:A:200:TRP:O	2.10	0.52
2:C:52:PHE:O	2:C:52:PHE:HD1	1.92	0.52
2:C:73:LEU:C	2:C:73:LEU:HD12	2.35	0.52
3:D:845:ASN:O	3:D:848:GLU:HB2	2.09	0.52
2:H:78:PHE:HB3	2:H:79:PRO:CD	2.37	0.52
2:H:838:LYS:NZ	2:H:846:LYS:NZ	2.58	0.52
2:H:1036:GLU:H	2:H:1036:GLU:CD	2.16	0.52
2:H:1092:LEU:HD13	2:H:1099:VAL:HG21	1.92	0.52
3:I:899:LEU:HD12	3:I:900:ILE:CG2	2.39	0.52
3:I:1102:THR:HG21	3:I:1371:VAL:HG22	1.92	0.52
3:I:1209:LEU:HD21	4:J:16:LYS:HZ1	1.71	0.52
3:I:1235:GLN:CB	7:Y:37:MET:HE3	2.39	0.52
3:I:1481:VAL:HG12	4:J:21:VAL:HG21	1.91	0.52
4:J:19:LEU:O	4:J:23:VAL:HG23	2.10	0.52
2:M:12:VAL:HB	2:M:472:ARG:HH11	1.73	0.52
2:M:161:SER:O	2:M:162:ILE:HD12	2.10	0.52
2:M:524:VAL:CG1	2:M:525:SER:H	2.22	0.52
2:M:554:ASP:HB2	2:M:880:MET:HB2	1.91	0.52
2:M:630:ARG:HH11	2:M:630:ARG:HG3	1.75	0.52
3:N:402:PRO:HA	3:N:443:VAL:HG23	1.92	0.52
3:N:770:LEU:HB2	3:N:1210:SER:O	2.10	0.52
1:A:167:VAL:HG12	1:A:168:ASP:H	1.75	0.52
1:A:170:VAL:O	1:A:170:VAL:CG2	2.53	0.52
1:B:24:VAL:HG13	1:B:196:THR:HG22	1.92	0.52
1:B:199:ILE:HB	1:B:207:PRO:HB3	1.91	0.52
2:C:300:ASP:CG	2:C:300:ASP:O	2.50	0.52
2:C:943:VAL:HG23	2:C:985:GLY:N	2.16	0.52
3:D:481:MET:CE	3:D:496:LEU:HD23	2.39	0.52
3:D:683:ILE:HD13	3:D:688:TRP:HZ2	1.75	0.52
3:D:1082:ALA:O	3:D:1086:LEU:HD13	2.10	0.52
4:E:54:LEU:HG	4:E:58:PRO:HG3	1.91	0.52
1:F:41:ARG:HG3	1:F:177:VAL:CG1	2.40	0.52
2:H:52:PHE:CG	2:H:53:PRO:N	2.78	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:159:ILE:HD12	2:H:159:ILE:C	2.34	0.52
2:H:683:ASN:CA	2:H:687:ALA:HB3	2.38	0.52
2:H:1009:SER:OG	2:H:1010:THR:N	2.43	0.52
2:H:1051:GLU:CG	2:H:1056:LYS:HE3	2.40	0.52
3:I:650:LEU:HD22	3:I:688:TRP:HH2	1.75	0.52
3:I:699:VAL:H	3:I:756:GLN:NE2	2.07	0.52
3:I:875:THR:CG2	3:I:879:ARG:HG3	2.40	0.52
3:I:1119:SER:HA	3:I:1186:VAL:O	2.10	0.52
3:I:1205:TYR:CE1	3:I:1221:VAL:HG11	2.45	0.52
3:I:1425:THR:C	3:I:1429:LEU:HD13	2.35	0.52
1:K:156:HIS:CD2	1:K:158:ILE:HG12	2.33	0.52
2:M:395:LYS:HG2	2:M:397:GLU:HG3	1.90	0.52
3:N:140:ALA:CB	3:N:450:TYR:CE2	2.90	0.52
3:N:179:VAL:HG13	3:N:183:GLU:CB	2.33	0.52
3:N:1108:ARG:HH11	3:N:1108:ARG:HG3	1.75	0.52
3:N:1122:LEU:HD11	3:N:1186:VAL:CG2	2.34	0.52
3:N:1166:LEU:HD23	3:N:1166:LEU:N	2.21	0.52
3:N:1401:GLU:OE2	3:N:1415:VAL:CG2	2.57	0.52
7:Y:115:THR:CB	7:Y:116:PRO:CD	2.87	0.52
1:B:30:ARG:HH12	2:C:692:GLU:CD	2.18	0.52
1:B:41:ARG:HG3	1:B:177:VAL:HG23	1.89	0.52
2:C:946:ARG:HD3	2:C:984:GLU:HB2	1.91	0.52
3:D:179:VAL:HG21	3:D:189:GLN:NE2	2.17	0.52
3:D:1256:LEU:O	3:D:1257:PRO:C	2.52	0.52
4:E:85:LEU:O	4:E:85:LEU:HD23	2.09	0.52
1:F:58:ILE:HG21	1:F:61:VAL:HG23	1.92	0.52
1:F:206:THR:HG23	1:F:208:LEU:N	2.24	0.52
1:G:123:MET:HE2	1:G:204:SER:HA	1.91	0.52
2:H:77:PRO:HD2	2:H:91:GLN:O	2.10	0.52
2:H:303:PHE:O	2:H:306:THR:OG1	2.26	0.52
2:H:567:GLN:HB2	2:H:997:LEU:HD12	1.91	0.52
2:H:1082:PRO:C	2:H:1084:SER:N	2.60	0.52
3:I:133:ILE:HG22	3:I:134:VAL:H	1.74	0.52
3:I:166:GLN:NE2	3:I:394:LEU:HD12	2.24	0.52
3:I:543:LEU:HD22	3:I:580:ALA:CB	2.25	0.52
3:I:564:GLU:N	2:M:223:ASP:HB2	2.22	0.52
3:I:696:HIS:HB2	4:J:48:MET:CE	2.40	0.52
3:I:702:LEU:O	3:I:713:ILE:HA	2.09	0.52
3:I:1080:GLY:C	7:Y:49:GLU:HG3	2.35	0.52
3:I:1205:TYR:HD2	3:I:1215:VAL:CG2	2.17	0.52
4:J:57:ASP:CG	4:J:57:ASP:O	2.52	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:100:LEU:CD2	1:L:141:GLU:HB3	2.40	0.52
1:L:185:ARG:CZ	3:N:692:GLU:HB3	2.40	0.52
2:M:96:ALA:O	2:M:98:LEU:HD11	2.10	0.52
2:M:199:VAL:CG2	2:M:238:LEU:HD12	2.39	0.52
2:M:690:ILE:HG23	2:M:852:ILE:HA	1.91	0.52
3:N:104:PHE:CD1	3:N:512:MET:HG2	2.44	0.52
3:N:702:LEU:O	3:N:713:ILE:HA	2.09	0.52
3:N:1448:THR:O	3:N:1452:ILE:HD13	2.09	0.52
7:Y:6:LYS:HD2	7:Y:75:LEU:CD1	2.40	0.52
7:Z:32:ILE:O	7:Z:35:GLU:HB2	2.09	0.52
7:Z:133:ARG:HG2	7:Z:134:VAL:N	2.24	0.52
1:A:20:TYR:O	1:A:207:PRO:HG2	2.10	0.52
1:A:124:ASN:HD21	1:A:127:LEU:CD2	2.22	0.52
1:B:147:GLY:HA3	1:B:171:PHE:CZ	2.44	0.52
2:C:265:ARG:H	2:C:289:THR:HG21	1.75	0.52
2:C:300:ASP:OD2	2:C:303:PHE:HB2	2.10	0.52
2:C:391:LEU:O	2:C:391:LEU:HD23	2.09	0.52
3:D:102:ILE:CD1	3:D:106:LYS:HB2	2.39	0.52
3:D:143:ASN:HB3	3:D:161:LEU:HD21	1.89	0.52
3:D:396:VAL:HG23	3:D:398:ALA:HB3	1.91	0.52
3:D:1221:VAL:CG1	3:D:1370:ILE:HD13	2.40	0.52
1:G:54:THR:CG2	1:G:158:ILE:HG13	2.40	0.52
2:H:90:TYR:CD1	2:H:120:LEU:HB2	2.45	0.52
2:H:676:ILE:HG22	2:H:988:VAL:O	2.09	0.52
2:H:863:ASP:O	2:H:865:THR:N	2.43	0.52
2:H:1081:VAL:CG1	2:H:1085:PHE:HB3	2.40	0.52
3:I:202:VAL:O	3:I:395:VAL:HA	2.09	0.52
3:I:616:GLN:NE2	3:I:621:LYS:HG3	2.25	0.52
3:I:628:ARG:HG3	3:I:628:ARG:NH1	2.25	0.52
3:I:949:ILE:HD11	3:I:1023:MET:HE1	1.92	0.52
3:I:1101:VAL:HG21	3:I:1424:VAL:HG23	1.91	0.52
3:I:1493:LYS:HE2	3:I:1493:LYS:HA	1.91	0.52
4:J:6:ILE:HG13	4:J:10:PHE:CE1	2.45	0.52
2:M:69:LEU:HD12	2:M:97:ARG:HB3	1.90	0.52
2:M:101:ILE:HD12	2:M:107:LEU:HD13	1.92	0.52
2:M:344:PHE:CE2	2:M:378:LEU:HD11	2.44	0.52
2:M:486:MET:HE2	2:M:491:GLU:HA	1.90	0.52
2:M:707:ARG:HG3	2:M:826:TYR:CE1	2.44	0.52
2:M:897:LEU:HD21	2:M:921:ALA:HA	1.92	0.52
2:M:1008:ARG:NE	2:M:1027:PHE:O	2.43	0.52
3:N:398:ALA:HB2	3:N:447:VAL:HA	1.90	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:687:VAL:O	3:N:690:ALA:HB3	2.10	0.52
3:N:1189:ARG:HB3	3:N:1204:CYS:HA	1.91	0.52
3:N:1205:TYR:CE1	3:N:1221:VAL:HG11	2.44	0.52
3:N:1301:LYS:HE2	3:N:1301:LYS:HA	1.90	0.52
7:X:84:GLY:CA	7:X:130:LEU:HD11	2.40	0.52
1:B:138:LEU:HD23	1:B:138:LEU:C	2.35	0.52
2:C:111:ASP:O	2:C:112:GLU:HG2	2.10	0.52
2:C:285:LEU:CD2	2:C:285:LEU:O	2.58	0.52
2:C:508:ILE:HD12	2:C:526:PRO:HB3	1.91	0.52
2:C:575:GLN:C	2:C:667:ALA:HB1	2.35	0.52
3:D:683:ILE:HD13	3:D:688:TRP:CZ2	2.45	0.52
3:D:705:ALA:HB1	6:Q:10:G:H21	1.75	0.52
3:D:827:ILE:O	3:D:827:ILE:HG22	2.10	0.52
3:D:1014:ASN:C	3:D:1016:PRO:HD3	2.34	0.52
2:H:198:ARG:NH2	2:H:203:ASP:HA	2.24	0.52
2:H:838:LYS:NZ	2:H:846:LYS:HZ3	2.08	0.52
2:H:854:PRO:O	2:H:855:VAL:C	2.53	0.52
3:I:426:LYS:NZ	3:I:427:VAL:HG23	2.24	0.52
3:I:554:LEU:HD13	3:I:570:GLU:HB3	1.91	0.52
3:I:1098:LEU:HD23	3:I:1226:ALA:O	2.10	0.52
3:I:1263:PHE:HB3	3:I:1424:VAL:CG1	2.39	0.52
2:M:191:PHE:HB2	2:M:241:LEU:CD1	2.40	0.52
2:M:726:ILE:CG1	2:M:734:LEU:HD11	2.39	0.52
2:M:893:ALA:O	2:M:897:LEU:HG	2.10	0.52
3:N:501:ALA:HB1	3:N:1453:ALA:HB2	1.92	0.52
3:N:793:THR:O	3:N:879:ARG:NH1	2.43	0.52
3:N:1025:GLN:NE2	3:N:1025:GLN:HA	2.25	0.52
3:N:1364:HIS:CE1	3:N:1366:LYS:HG3	2.45	0.52
2:C:289:THR:C	2:C:291:ALA:N	2.66	0.52
2:C:431:HIS:CG	2:C:432:ARG:N	2.78	0.52
2:C:557:ARG:NH1	2:C:560:MET:HG3	2.25	0.52
2:C:1103:ASP:CG	3:D:2:LYS:HA	2.35	0.52
3:D:180:LYS:NZ	3:D:387:LEU:H	2.07	0.52
3:D:396:VAL:O	3:D:398:ALA:N	2.43	0.52
3:D:639:LEU:HD12	3:D:640:HIS:N	2.25	0.52
3:D:645:PRO:HD3	3:D:726:ILE:HG12	1.91	0.52
3:D:696:HIS:NE2	4:E:54:LEU:HD11	2.25	0.52
3:D:957:PRO:HG2	3:D:1007:VAL:CA	2.40	0.52
4:E:54:LEU:HG	4:E:58:PRO:CG	2.40	0.52
1:F:39:PRO:HG3	1:G:39:PRO:HG3	1.91	0.52
1:F:86:VAL:HG13	1:F:124:ASN:HB2	1.89	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:156:HIS:HD2	1:F:157:GLY:H	1.57	0.52
1:F:206:THR:OG1	1:F:207:PRO:CD	2.56	0.52
2:H:111:ASP:O	2:H:112:GLU:HG2	2.10	0.52
2:H:118:ILE:HD13	2:H:118:ILE:O	2.08	0.52
3:I:72:VAL:HG22	3:I:77:GLY:HA2	1.92	0.52
3:I:111:LYS:HE3	3:I:1448:THR:CG2	2.38	0.52
3:I:669:ASN:ND2	3:I:671:LYS:HB2	2.25	0.52
3:I:967:ALA:O	3:I:970:LYS:HB3	2.10	0.52
3:I:982:PHE:CG	3:I:983:LEU:HD23	2.45	0.52
3:I:1148:VAL:HG22	3:I:1165:TYR:CD2	2.45	0.52
4:J:9:LEU:HD22	4:J:19:LEU:HD11	1.91	0.52
4:J:51:LEU:C	4:J:53:GLY:N	2.65	0.52
1:L:24:VAL:HG22	1:L:196:THR:CG2	2.39	0.52
1:L:185:ARG:HH11	3:N:689:ASP:HA	1.72	0.52
1:L:211:LEU:O	1:L:215:VAL:HG13	2.10	0.52
2:M:136:ILE:N	2:M:136:ILE:CD1	2.72	0.52
2:M:218:VAL:O	2:M:221:LEU:HG	2.10	0.52
2:M:854:PRO:O	2:M:855:VAL:C	2.53	0.52
2:M:1012:PRO:HD3	2:M:1026:GLN:HB2	1.90	0.52
3:N:15:PRO:O	3:N:19:ARG:HG3	2.10	0.52
3:N:481:MET:HE1	3:N:496:LEU:HD23	1.92	0.52
3:N:695:ILE:HD11	3:N:718:PRO:CB	2.40	0.52
3:N:722:GLU:HG3	3:N:722:GLU:O	2.07	0.52
3:N:814:ALA:O	3:N:818:ARG:HG3	2.10	0.52
3:N:882:PHE:HA	3:N:885:ILE:HD12	1.92	0.52
3:N:1026:SER:C	3:N:1028:ALA:N	2.65	0.52
7:Z:77:GLU:O	7:Z:77:GLU:CG	2.56	0.52
1:B:212:ASN:O	1:B:215:VAL:CG2	2.46	0.51
2:C:136:ILE:HB	2:C:336:VAL:HG22	1.93	0.51
2:C:374:ASN:HD22	2:C:374:ASN:H	1.58	0.51
2:C:455:LEU:HD12	2:C:455:LEU:O	2.10	0.51
2:C:553:ASP:OD2	2:C:883:GLY:N	2.40	0.51
2:C:606:VAL:HG11	2:C:643:VAL:O	2.09	0.51
2:C:677:MET:C	2:C:873:PRO:HD3	2.35	0.51
2:C:886:LEU:HD22	3:D:951:ILE:HD12	1.92	0.51
2:C:1005:MET:HE1	3:D:724:GLN:C	2.36	0.51
2:C:1085:PHE:HD2	3:D:1468:LEU:HA	1.74	0.51
3:D:208:PRO:HG3	3:D:353:VAL:HG13	1.91	0.51
3:D:666:ILE:CD1	3:D:686:GLU:HB2	2.41	0.51
3:D:841:TYR:HB2	3:D:864:VAL:HG13	1.91	0.51
3:D:1040:GLY:O	3:D:1060:SER:HB3	2.10	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1108:ARG:HH11	3:D:1108:ARG:HG3	1.76	0.51
4:E:51:LEU:C	4:E:53:GLY:N	2.65	0.51
1:G:56:VAL:HG21	1:G:82:LEU:CD1	2.40	0.51
1:G:154:GLU:OE2	3:I:840:LYS:HE2	2.10	0.51
2:H:174:LEU:HD23	2:H:184:MET:HA	1.92	0.51
2:H:251:ASP:C	2:H:253:ALA:N	2.68	0.51
2:H:838:LYS:HZ2	2:H:846:LYS:NZ	2.08	0.51
2:H:1047:HIS:HB2	3:I:758:GLU:OE1	2.10	0.51
3:I:470:LEU:HB2	3:I:503:LEU:HD21	1.93	0.51
3:I:996:TRP:HE3	3:I:999:THR:HG21	1.75	0.51
3:I:1295:GLU:N	3:I:1295:GLU:OE2	2.43	0.51
4:J:30:LEU:HD21	4:J:63:TRP:CB	2.39	0.51
1:L:88:ARG:NH1	1:L:123:MET:HE1	2.19	0.51
1:L:134:GLU:OE2	1:L:134:GLU:HA	2.10	0.51
2:M:18:LEU:HD13	2:M:590:ASP:CG	2.35	0.51
2:M:290:LEU:HD23	2:M:290:LEU:H	1.73	0.51
2:M:1012:PRO:HD3	2:M:1026:GLN:CG	2.40	0.51
2:M:1033:GLY:O	2:M:1037:VAL:HG23	2.10	0.51
3:N:452:ILE:HD13	3:N:452:ILE:N	2.25	0.51
3:N:949:ILE:HG22	3:N:950:GLY:N	2.25	0.51
3:N:957:PRO:HG3	3:N:1007:VAL:HA	1.91	0.51
3:N:1025:GLN:HA	3:N:1025:GLN:HE21	1.74	0.51
3:N:1384:PRO:HB3	3:N:1387:SER:O	2.10	0.51
7:X:99:ARG:CG	7:X:99:ARG:NH1	2.70	0.51
1:A:54:THR:O	1:A:158:ILE:HD13	2.10	0.51
1:A:206:THR:HG23	1:A:208:LEU:N	2.25	0.51
2:C:129:ILE:CG2	2:C:130:ASN:N	2.67	0.51
2:C:174:LEU:HD22	2:C:193:LEU:HD21	1.92	0.51
2:C:198:ARG:NH1	2:C:228:ALA:O	2.42	0.51
2:C:702:SER:OG	2:C:1000:MET:HE1	2.10	0.51
2:C:861:LEU:HD23	2:C:863:ASP:N	2.21	0.51
2:C:925:TYR:CD2	2:C:925:TYR:O	2.64	0.51
3:D:13:ALA:CB	3:D:18:ILE:HD11	2.39	0.51
3:D:180:LYS:HZ1	3:D:386:HIS:CA	2.23	0.51
3:D:208:PRO:HG2	3:D:347:VAL:HB	1.91	0.51
3:D:626:SER:O	3:D:652:LEU:HD11	2.10	0.51
3:D:949:ILE:N	3:D:949:ILE:HD12	2.26	0.51
1:F:44:LEU:HD23	1:F:214:ALA:HB2	1.91	0.51
2:H:250:ARG:NH1	2:H:250:ARG:CB	2.69	0.51
2:H:257:VAL:HG12	2:H:263:ASP:OD2	2.09	0.51
2:H:317:VAL:N	2:H:318:PRO:HD3	2.25	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:690:ILE:HG23	2:H:852:ILE:HG23	1.92	0.51
3:I:62:LYS:HD2	3:I:75:ARG:HD2	1.92	0.51
3:I:483:HIS:CB	3:I:484:PRO:HD3	2.37	0.51
3:I:1033:GLN:OE1	3:I:1036:ARG:NH1	2.43	0.51
3:I:1114:THR:CG2	3:I:1114:THR:O	2.57	0.51
3:I:1484:THR:C	3:I:1485:GLN:HG2	2.35	0.51
1:K:178:ALA:HB2	2:M:864:GLY:N	2.25	0.51
1:L:56:VAL:O	1:L:164:ALA:HB1	2.09	0.51
1:L:146:ARG:O	1:L:146:ARG:HG3	2.10	0.51
3:N:202:VAL:O	3:N:395:VAL:HA	2.10	0.51
3:N:396:VAL:O	3:N:398:ALA:N	2.43	0.51
7:Y:105:VAL:HB	7:Y:109:GLU:HB2	1.92	0.51
7:Y:139:SER:OG	7:Y:148:GLU:CG	2.56	0.51
7:Z:57:ARG:NH2	7:Z:61:ARG:HD2	2.26	0.51
2:C:170:PRO:CG	2:C:258:TYR:HE1	2.23	0.51
2:C:277:ALA:O	2:C:278:GLU:C	2.53	0.51
2:C:480:THR:HG22	2:C:481:ASP:N	2.23	0.51
2:C:580:MET:HB3	2:C:584:GLU:CD	2.35	0.51
2:C:682:TYR:CE1	2:C:851:LYS:HD3	2.44	0.51
2:C:722:ILE:HG21	2:C:821:GLU:OE1	2.10	0.51
3:D:208:PRO:HG2	3:D:347:VAL:CB	2.40	0.51
3:D:384:VAL:CG1	3:D:385:VAL:N	2.74	0.51
3:D:1026:SER:C	3:D:1028:ALA:N	2.68	0.51
1:F:63:HIS:HB2	2:H:799:ILE:HG21	1.91	0.51
2:H:139:GLN:NE2	2:H:414:GLY:HA3	2.25	0.51
2:H:564:MET:CE	2:H:846:LYS:HD2	2.40	0.51
2:H:861:LEU:HD23	2:H:863:ASP:H	1.74	0.51
3:I:804:LEU:HB3	3:I:831:GLY:HA2	1.92	0.51
3:I:1258:ARG:HH21	3:I:1351:GLU:CG	2.23	0.51
3:I:1330:ILE:HB	3:I:1347:TYR:OH	2.10	0.51
3:I:1486:VAL:HG23	4:J:29:GLN:HE22	1.75	0.51
1:K:92:PRO:C	1:K:94:LEU:H	2.17	0.51
2:M:259:GLY:O	2:M:291:ALA:CA	2.57	0.51
2:M:559:LEU:C	2:M:559:LEU:CD2	2.84	0.51
2:M:571:LEU:HD23	2:M:670:GLN:NE2	2.21	0.51
2:M:603:VAL:HG21	2:M:643:VAL:CG1	2.40	0.51
3:N:368:VAL:HB	3:N:377:VAL:CG2	2.40	0.51
3:N:470:LEU:HD12	3:N:503:LEU:HD23	1.92	0.51
3:N:796:ARG:HB2	3:N:828:LYS:HD3	1.93	0.51
3:N:982:PHE:CD2	7:Z:119:ILE:HG23	2.45	0.51
3:N:1132:LEU:N	3:N:1132:LEU:HD12	2.26	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1481:VAL:HG12	3:N:1481:VAL:O	2.09	0.51
7:Z:10:ALA:O	7:Z:14:ARG:HG3	2.10	0.51
7:Z:58:ILE:O	7:Z:62:ILE:HD13	2.10	0.51
7:Z:102:VAL:CG1	7:Z:103:GLN:N	2.73	0.51
1:A:100:LEU:HD21	1:A:102:LYS:HE2	1.93	0.51
2:C:54:ILE:HG21	2:C:66:LEU:HB3	1.92	0.51
2:C:118:ILE:HD12	2:C:119:PRO:O	2.10	0.51
2:C:170:PRO:HD2	2:C:258:TYR:HE1	1.75	0.51
2:C:207:LEU:HD22	2:C:221:LEU:HD13	1.91	0.51
2:C:437:ARG:HG2	2:C:467:ILE:O	2.09	0.51
2:C:512:ARG:HA	2:C:523:ILE:HD11	1.93	0.51
2:C:578:VAL:HG11	2:C:991:GLN:HB3	1.91	0.51
2:C:839:LEU:N	2:C:839:LEU:HD23	2.25	0.51
2:C:957:LYS:CD	2:C:961:GLU:HB3	2.40	0.51
3:D:458:ALA:HB2	3:D:575:GLN:NE2	2.26	0.51
3:D:1256:LEU:O	3:D:1260:ILE:HG13	2.11	0.51
3:D:1403:LEU:O	3:D:1407:LEU:HD13	2.10	0.51
3:D:1487:VAL:HG12	3:D:1488:ASP:N	2.25	0.51
4:E:26:ARG:O	4:E:30:LEU:HD12	2.10	0.51
4:E:30:LEU:O	4:E:35:PHE:HA	2.09	0.51
4:E:75:PHE:N	4:E:75:PHE:CD2	2.79	0.51
1:F:174:VAL:HG13	1:F:200:TRP:O	2.11	0.51
2:H:122:THR:CG2	2:H:123:GLU:N	2.74	0.51
2:H:686:ASP:OD1	2:H:879:ARG:NH2	2.44	0.51
3:I:140:ALA:N	3:I:450:TYR:CE2	2.64	0.51
3:I:160:GLU:HG2	3:I:165:LYS:CG	2.40	0.51
3:I:617:ASN:O	3:I:1466:VAL:CG1	2.58	0.51
3:I:672:ALA:O	3:I:676:MET:HB2	2.11	0.51
3:I:983:LEU:HD23	3:I:983:LEU:N	2.25	0.51
4:J:41:GLU:CD	4:J:41:GLU:H	2.18	0.51
1:K:18:ARG:NH1	1:K:88:ARG:HE	2.09	0.51
2:M:108:ILE:HD12	2:M:108:ILE:H	1.75	0.51
2:M:140:ILE:HA	2:M:332:ARG:O	2.11	0.51
2:M:195:LEU:HD23	2:M:241:LEU:CD1	2.40	0.51
2:M:889:HIS:O	2:M:892:LEU:HB3	2.11	0.51
2:M:1012:PRO:HD3	2:M:1026:GLN:NE2	2.24	0.51
3:N:140:ALA:N	3:N:450:TYR:CE2	2.74	0.51
3:N:969:ARG:HG3	3:N:970:LYS:N	2.24	0.51
3:N:1126:ASP:C	3:N:1126:ASP:OD1	2.52	0.51
3:N:1295:GLU:HB2	3:N:1300:SER:HB3	1.92	0.51
7:X:54:GLU:OE1	7:X:54:GLU:HA	2.10	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:X:123:SER:O	7:X:127:LYS:N	2.38	0.51
7:Z:30:THR:O	7:Z:31:LYS:C	2.53	0.51
2:C:64:LEU:HB2	2:C:359:MET:HE3	1.93	0.51
2:C:368:THR:HB	2:C:369:PRO:HD2	1.88	0.51
2:C:515:ALA:O	2:C:516:ARG:HD3	2.11	0.51
2:C:1082:PRO:HD2	3:D:1468:LEU:O	2.11	0.51
3:D:696:HIS:CD2	4:E:58:PRO:HB2	2.46	0.51
3:D:1089:ALA:C	3:D:1091:SER:H	2.18	0.51
3:D:1272:ALA:CA	3:D:1326:THR:HB	2.40	0.51
1:F:198:ARG:C	1:F:199:ILE:HD13	2.35	0.51
1:G:185:ARG:HD2	1:G:186:LEU:CA	2.40	0.51
2:H:545:ASN:HB3	2:H:583:LEU:CD2	2.41	0.51
2:H:610:ARG:HH11	2:H:610:ARG:HG3	1.75	0.51
2:H:876:VAL:N	2:H:877:PRO:HD2	2.25	0.51
2:H:1082:PRO:C	2:H:1084:SER:H	2.16	0.51
3:I:142:LEU:HD23	3:I:145:VAL:C	2.35	0.51
3:I:1011:PHE:HB3	3:I:1021:TYR:CD1	2.45	0.51
3:I:1256:LEU:O	3:I:1260:ILE:HG13	2.10	0.51
1:L:52:ALA:HB3	1:L:171:PHE:CD1	2.46	0.51
1:L:86:VAL:HG12	1:L:124:ASN:ND2	2.25	0.51
2:M:101:ILE:HD12	2:M:107:LEU:HD22	1.92	0.51
2:M:140:ILE:CG2	2:M:410:ILE:HG21	2.41	0.51
2:M:339:LEU:O	2:M:342:ASP:HB3	2.10	0.51
2:M:549:PHE:CD1	2:M:886:LEU:HD23	2.44	0.51
2:M:666:LEU:HD12	2:M:667:ALA:N	2.25	0.51
2:M:1001:VAL:HG13	2:M:1004:LYS:HB3	1.92	0.51
3:N:80:VAL:HG12	3:N:81:THR:N	2.25	0.51
3:N:154:THR:CG2	3:N:157:GLU:HB2	2.40	0.51
3:N:642:CYS:HB3	3:N:716:PHE:CD2	2.45	0.51
3:N:1176:LYS:O	3:N:1179:GLU:HB2	2.09	0.51
3:N:1225:ALA:HB2	3:N:1370:ILE:CD1	2.39	0.51
3:N:1493:LYS:HE2	3:N:1493:LYS:HA	1.93	0.51
7:X:125:MET:O	7:X:129:LEU:HG	2.10	0.51
7:Z:152:VAL:O	7:Z:153:ALA:HB2	2.11	0.51
2:C:90:TYR:CE1	2:C:120:LEU:HB2	2.45	0.51
2:C:260:LEU:HD23	2:C:260:LEU:C	2.36	0.51
2:C:775:ARG:HD2	2:C:782:ALA:HB3	1.93	0.51
2:C:1060:ILE:HG13	2:C:1061:GLU:N	2.25	0.51
3:D:204:LEU:HD13	3:D:441:ARG:NH1	2.24	0.51
3:D:1041:LEU:HD12	3:D:1058:ARG:CA	2.41	0.51
3:D:1129:THR:HG23	3:D:1130:ARG:N	2.26	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:62:LEU:N	1:F:62:LEU:CD1	2.73	0.51
1:F:92:PRO:C	1:F:94:LEU:H	2.18	0.51
1:G:24:VAL:HG13	1:G:196:THR:HG22	1.91	0.51
1:G:62:LEU:H	1:G:62:LEU:HD12	1.76	0.51
1:G:228:PRO:O	1:G:229:GLN:HG3	2.11	0.51
2:H:507:ARG:HG2	2:H:507:ARG:HH11	1.76	0.51
2:H:690:ILE:HD12	2:H:833:LEU:HD23	1.92	0.51
2:H:918:LEU:HD23	2:H:968:LEU:HA	1.92	0.51
3:I:813:LEU:O	3:I:817:GLU:CB	2.55	0.51
3:I:922:LEU:N	3:I:922:LEU:HD23	2.25	0.51
3:I:957:PRO:HA	3:I:1010:ASN:HD22	1.74	0.51
1:L:195:LEU:HD12	1:L:196:THR:N	2.26	0.51
2:M:139:GLN:HE22	2:M:414:GLY:HA3	1.74	0.51
2:M:317:VAL:O	2:M:317:VAL:HG12	2.11	0.51
2:M:353:ARG:HH11	2:M:353:ARG:HG3	1.76	0.51
2:M:843:HIS:CD2	2:M:884:GLN:HA	2.45	0.51
3:N:1107:VAL:O	3:N:1218:GLY:N	2.38	0.51
3:N:1353:GLN:NE2	3:N:1368:ILE:HD11	2.25	0.51
7:Z:70:SER:OG	7:Z:71:ARG:HG3	2.11	0.51
1:A:19:GLU:O	1:A:207:PRO:HG3	2.11	0.51
2:C:263:ASP:O	2:C:264:PRO:C	2.52	0.51
2:C:274:ARG:HB2	2:C:285:LEU:CD1	2.23	0.51
2:C:309:TYR:HE2	2:C:321:GLU:HB3	1.75	0.51
2:C:630:ARG:HA	2:C:705:ILE:HD12	1.93	0.51
3:D:102:ILE:HD12	3:D:586:ARG:HG3	1.93	0.51
3:D:441:ARG:NH1	3:D:445:ARG:NH2	2.57	0.51
3:D:501:ALA:CB	3:D:1452:ILE:HG22	2.41	0.51
3:D:644:LEU:HD12	3:D:645:PRO:CD	2.41	0.51
3:D:907:GLU:N	3:D:910:SER:OG	2.42	0.51
3:D:1105:ILE:HD12	3:D:1105:ILE:H	1.74	0.51
3:D:1147:ARG:O	3:D:1165:TYR:HA	2.10	0.51
3:D:1402:ALA:HB2	3:D:1415:VAL:HG21	1.90	0.51
1:F:58:ILE:HA	1:F:140:MET:HB3	1.92	0.51
2:H:194:VAL:O	2:H:197:LEU:N	2.44	0.51
2:H:196:LEU:O	2:H:199:VAL:CB	2.52	0.51
2:H:253:ALA:O	2:H:257:VAL:CG2	2.59	0.51
2:H:554:ASP:HB2	2:H:880:MET:HB2	1.92	0.51
2:H:554:ASP:OD2	2:H:556:ASN:CG	2.53	0.51
2:H:876:VAL:H	2:H:877:PRO:HD2	1.75	0.51
3:I:520:LEU:HD11	3:I:524:LEU:CD2	2.41	0.51
3:I:862:ASP:O	3:I:864:VAL:HG23	2.11	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:890:VAL:HG11	3:I:922:LEU:CD1	2.41	0.51
3:I:1101:VAL:HG11	3:I:1424:VAL:HG23	1.91	0.51
2:M:601:GLY:HA2	2:M:616:GLU:HG2	1.92	0.51
2:M:805:ARG:HD3	2:M:807:ARG:HG2	1.92	0.51
2:M:876:VAL:H	2:M:877:PRO:HD2	1.73	0.51
3:N:170:PRO:HA	3:N:392:SER:HB3	1.92	0.51
3:N:215:TYR:HB3	3:N:383:GLY:HA2	1.92	0.51
3:N:988:ARG:HD3	3:N:992:ILE:CD1	2.40	0.51
7:Y:20:GLU:OE1	7:Y:20:GLU:HA	2.09	0.51
1:B:197:LEU:HD23	1:B:197:LEU:C	2.35	0.51
1:B:227:ASN:N	1:B:227:ASN:ND2	2.58	0.51
2:C:463:GLU:HA	2:C:463:GLU:OE2	2.10	0.51
2:C:554:ASP:OD2	2:C:556:ASN:HB3	2.11	0.51
2:C:557:ARG:HH11	2:C:557:ARG:HG3	1.76	0.51
2:C:728:HIS:O	2:C:729:LEU:HD22	2.11	0.51
2:C:862:PRO:HG2	2:C:925:TYR:OH	2.11	0.51
3:D:98:PRO:HG2	3:D:462:GLN:OE1	2.11	0.51
3:D:117:ASP:HB2	3:D:495:ARG:NH2	2.26	0.51
3:D:520:LEU:O	3:D:525:ARG:NH1	2.44	0.51
3:D:1258:ARG:HH21	3:D:1351:GLU:CG	2.21	0.51
3:D:1412:LYS:C	3:D:1414:PRO:HD3	2.34	0.51
2:H:181:VAL:HG12	2:H:182:VAL:N	2.25	0.51
2:H:679:PHE:H	2:H:683:ASN:ND2	2.08	0.51
2:H:887:GLU:OE1	2:H:993:PHE:N	2.31	0.51
2:H:952:LEU:HD11	2:H:971:LYS:NZ	2.26	0.51
3:I:72:VAL:CG2	3:I:77:GLY:HA2	2.41	0.51
3:I:131:LYS:HE3	3:I:456:MET:CE	2.40	0.51
3:I:465:LEU:HD11	3:I:509:PRO:O	2.10	0.51
3:I:784:ASP:HB3	3:I:939:PHE:CE2	2.46	0.51
3:I:850:LEU:H	3:I:850:LEU:CD1	2.18	0.51
3:I:1107:VAL:O	3:I:1218:GLY:N	2.38	0.51
3:I:1235:GLN:CG	7:Y:37:MET:HE3	2.40	0.51
3:I:1256:LEU:O	3:I:1257:PRO:C	2.53	0.51
4:J:28:GLN:O	4:J:31:LEU:HD12	2.10	0.51
4:J:53:GLY:C	4:J:55:PHE:H	2.19	0.51
1:L:185:ARG:NH2	3:N:692:GLU:HG2	2.26	0.51
2:M:281:LEU:O	2:M:282:GLY:O	2.29	0.51
2:M:440:PRO:HB2	3:N:1074:SER:OG	2.10	0.51
2:M:657:ASP:CG	2:M:662:GLU:HA	2.35	0.51
2:M:1008:ARG:HH12	2:M:1010:THR:CA	2.24	0.51
2:M:1071:ILE:O	3:N:659:LYS:HG2	2.11	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1073:GLY:N	3:N:659:LYS:HG3	2.25	0.51
3:N:30:GLU:HB3	3:N:40:GLU:CB	2.41	0.51
3:N:178:LEU:O	3:N:179:VAL:HG23	2.10	0.51
3:N:758:GLU:HB3	4:O:20:THR:HG21	1.91	0.51
3:N:789:LEU:CD1	3:N:911:LEU:HD21	2.41	0.51
3:N:880:ILE:O	3:N:881:LEU:C	2.54	0.51
3:N:1080:GLY:O	3:N:1084:THR:HG23	2.10	0.51
3:N:1192:LEU:HD22	3:N:1345:GLU:OE2	2.10	0.51
3:N:1380:GLU:HA	3:N:1391:GLU:O	2.11	0.51
7:X:128:ALA:CB	7:X:140:LEU:HD11	2.40	0.51
7:X:155:HIS:O	7:X:156:GLY:C	2.53	0.51
7:Z:48:LEU:HD12	7:Z:52:LYS:HE3	1.93	0.51
7:Z:66:GLU:O	7:Z:70:SER:HB3	2.11	0.51
2:C:328:LEU:HD21	2:C:438:ILE:CD1	2.41	0.51
2:C:1092:LEU:HD21	3:D:1447:LEU:CD2	2.41	0.51
3:D:705:ALA:HB3	3:D:706:PRO:CD	2.35	0.51
3:D:1108:ARG:HD3	3:D:1108:ARG:N	2.25	0.51
3:D:1189:ARG:HG3	3:D:1189:ARG:NH1	2.25	0.51
3:D:1277:ILE:HD13	3:D:1301:LYS:CB	2.37	0.51
3:D:1395:LEU:HD23	3:D:1396:GLU:N	2.24	0.51
1:G:59:GLU:CG	1:G:139:ASN:ND2	2.74	0.51
1:G:133:GLU:HG3	1:G:134:GLU:N	2.24	0.51
2:H:165:LEU:HA	2:H:166:PRO:O	2.11	0.51
2:H:367:LEU:HB3	2:H:371:LYS:HE3	1.92	0.51
2:H:445:GLU:HG3	2:H:560:MET:CE	2.21	0.51
2:H:470:PRO:HB2	2:H:534:VAL:HG21	1.93	0.51
2:H:931:GLY:C	2:H:933:GLY:H	2.19	0.51
3:I:493:ARG:CG	3:I:494:LYS:N	2.74	0.51
3:I:1137:ARG:HG3	3:I:1137:ARG:HH11	1.76	0.51
3:I:1140:ILE:CG2	3:I:1175:ILE:HD11	2.35	0.51
3:I:1389:LEU:HD12	3:I:1390:LEU:CD2	2.41	0.51
2:M:806:LEU:HB2	2:M:822:VAL:HG22	1.91	0.51
2:M:890:LEU:HD21	2:M:901:TYR:CG	2.46	0.51
2:M:1001:VAL:O	2:M:1001:VAL:CG1	2.59	0.51
3:N:1394:VAL:HG21	3:N:1432:LYS:NZ	2.26	0.51
3:N:1426:LYS:HA	3:N:1429:LEU:HD22	1.92	0.51
7:Z:102:VAL:CG2	7:Z:119:ILE:HD11	2.35	0.51
7:Z:115:THR:OG1	7:Z:116:PRO:CD	2.50	0.51
1:A:41:ARG:O	1:A:45:LEU:HD13	2.11	0.51
1:A:56:VAL:CG1	1:A:142:VAL:HG12	2.38	0.51
1:B:19:GLU:HG3	1:B:201:THR:O	2.11	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1090:LYS:HA	2:C:1093:GLN:HG3	1.93	0.51
3:D:93:ILE:HD13	3:D:548:ILE:CD1	2.41	0.51
3:D:148:GLU:HB3	3:D:151:GLN:HB2	1.93	0.51
3:D:215:TYR:HE2	3:D:343:LYS:HB2	1.76	0.51
3:D:590:PRO:HB2	3:D:600:LEU:CD1	2.41	0.51
3:D:827:ILE:C	3:D:828:LYS:CG	2.84	0.51
3:D:1089:ALA:C	3:D:1091:SER:N	2.66	0.51
3:D:1205:TYR:OH	3:D:1367:HIS:CE1	2.59	0.51
3:D:1332:PRO:HB2	3:D:1421:LEU:HD21	1.91	0.51
1:F:91:ASN:HD22	1:F:93:SER:CB	2.24	0.51
1:G:143:ARG:CZ	1:G:158:ILE:HD12	2.41	0.51
2:H:191:PHE:HD2	2:H:195:LEU:HD23	1.75	0.51
3:I:521:PRO:CB	3:I:524:LEU:HD13	2.26	0.51
3:I:949:ILE:N	3:I:949:ILE:HD12	2.26	0.51
3:I:1021:TYR:CE2	3:I:1025:GLN:HG2	2.46	0.51
3:I:1066:THR:HG22	3:I:1069:GLU:CG	2.40	0.51
2:M:100:LEU:HD12	2:M:101:ILE:N	2.26	0.51
2:M:115:LEU:HD12	2:M:378:LEU:HD22	1.94	0.51
2:M:198:ARG:CZ	2:M:203:ASP:HA	2.41	0.51
2:M:207:LEU:CD2	2:M:208:ALA:N	2.74	0.51
2:M:680:ASP:O	3:N:939:PHE:HB3	2.11	0.51
2:M:710:ILE:HD11	2:M:758:ARG:CD	2.41	0.51
2:M:1008:ARG:HH22	2:M:1011:GLY:CA	2.24	0.51
2:M:1013:TYR:CZ	2:M:1060:ILE:HD11	2.46	0.51
3:N:141:ILE:CG1	3:N:448:GLU:OE1	2.57	0.51
3:N:781:PRO:HB2	3:N:786:ILE:CD1	2.40	0.51
3:N:1114:THR:HG22	3:N:1195:GLN:HB3	1.92	0.51
3:N:1256:LEU:HD12	3:N:1259:VAL:HB	1.92	0.51
3:N:1383:ASP:HB2	3:N:1416:ALA:HB3	1.93	0.51
3:N:1434:TRP:CZ3	3:N:1455:LYS:O	2.64	0.51
4:O:27:ALA:HB1	4:O:60:ALA:HB1	1.92	0.51
7:Y:125:MET:O	7:Y:129:LEU:HG	2.10	0.51
2:C:197:LEU:HA	2:C:200:LEU:HD12	1.93	0.50
2:C:235:LEU:HD11	2:C:298:PHE:HZ	1.75	0.50
2:C:317:VAL:O	2:C:317:VAL:HG12	2.10	0.50
2:C:704:HIS:CE1	2:C:1000:MET:HE3	2.47	0.50
2:C:722:ILE:O	2:C:722:ILE:CD1	2.55	0.50
2:C:984:GLU:HG2	3:D:944:THR:O	2.11	0.50
3:D:720:LEU:N	3:D:720:LEU:CD1	2.74	0.50
3:D:1301:LYS:HG3	3:D:1303:TYR:CE1	2.46	0.50
1:F:87:VAL:CG2	1:F:144:VAL:HG11	2.38	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:80:LEU:HD21	3:I:867:ARG:HB2	1.93	0.50
1:G:86:VAL:HG12	1:G:124:ASN:CG	2.37	0.50
1:G:185:ARG:CD	1:G:186:LEU:N	2.73	0.50
3:I:41:ARG:C	3:I:43:GLY:H	2.19	0.50
3:I:135:LEU:HD23	3:I:136:ASP:H	1.75	0.50
3:I:1146:GLY:CA	3:I:1207:TYR:HB2	2.41	0.50
3:I:1336:LEU:HA	3:I:1344:VAL:CG2	2.42	0.50
2:M:122:THR:HG22	2:M:124:ASP:H	1.76	0.50
2:M:408:ARG:HH21	2:M:455:LEU:HD12	1.76	0.50
3:N:481:MET:O	3:N:489:ARG:HB2	2.11	0.50
3:N:786:ILE:O	3:N:787:LEU:C	2.54	0.50
1:A:85:LEU:HA	1:A:124:ASN:ND2	2.26	0.50
1:B:212:ASN:C	1:B:215:VAL:HG22	2.33	0.50
2:C:139:GLN:HB3	2:C:334:ARG:HG3	1.92	0.50
2:C:224:GLU:OE1	2:C:226:VAL:HG12	2.11	0.50
2:C:554:ASP:HB2	2:C:880:MET:HB2	1.93	0.50
2:C:679:PHE:C	3:D:943:THR:HG22	2.36	0.50
2:C:742:VAL:CG1	2:C:743:VAL:N	2.75	0.50
2:C:762:LYS:HG2	2:C:763:GLY:N	2.26	0.50
2:C:878:SER:HB3	3:D:1029:ARG:HD3	1.93	0.50
3:D:625:TYR:HB3	3:D:749:VAL:HG23	1.93	0.50
3:D:646:LYS:HG3	3:D:647:ARG:H	1.75	0.50
1:G:83:LYS:NZ	3:I:844:ALA:H	2.09	0.50
2:H:160:ALA:O	2:H:173:ASP:HA	2.11	0.50
2:H:382:ILE:HD12	2:H:382:ILE:N	2.26	0.50
2:H:495:THR:CG2	2:H:517:ARG:HH21	2.01	0.50
2:H:695:LEU:CD2	2:H:832:LYS:HD3	2.41	0.50
3:I:614:PHE:CD2	3:I:1438:ALA:HB1	2.47	0.50
3:I:1068:LEU:O	3:I:1069:GLU:C	2.53	0.50
1:K:170:VAL:HG23	1:K:170:VAL:O	2.11	0.50
1:L:185:ARG:NH1	3:N:692:GLU:HB3	2.26	0.50
2:M:218:VAL:HG13	2:M:221:LEU:CD2	2.41	0.50
2:M:249:LYS:NZ	2:M:249:LYS:C	2.70	0.50
2:M:588:VAL:HG21	2:M:664:GLY:O	2.11	0.50
2:M:1095:LEU:O	2:M:1096:ALA:C	2.55	0.50
3:N:141:ILE:H	3:N:162:ARG:NH1	2.08	0.50
3:N:396:VAL:HG21	3:N:445:ARG:HD3	1.94	0.50
3:N:481:MET:HE2	3:N:493:ARG:CA	2.36	0.50
3:N:996:TRP:O	3:N:1000:THR:HG22	2.10	0.50
3:N:1422:MET:CE	3:N:1427:SER:HA	2.41	0.50
7:Y:127:LYS:C	7:Y:127:LYS:HD3	2.36	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:133:GLU:HG3	1:B:134:GLU:N	2.26	0.50
2:C:260:LEU:HA	2:C:291:ALA:CB	2.41	0.50
2:C:328:LEU:N	2:C:328:LEU:CD1	2.74	0.50
2:C:794:PRO:CG	2:C:1025:ALA:HA	2.42	0.50
2:C:882:LEU:CD1	3:D:1061:PHE:HB3	2.41	0.50
2:C:1005:MET:HE1	3:D:724:GLN:HB3	1.93	0.50
3:D:632:VAL:CG2	3:D:725:SER:CB	2.90	0.50
3:D:1369:GLU:O	3:D:1370:ILE:C	2.54	0.50
1:F:127:LEU:HG	1:F:129:ILE:HD13	1.94	0.50
1:G:112:ARG:HB3	1:G:125:PRO:HB3	1.91	0.50
2:H:115:LEU:HB2	2:H:375:SER:HA	1.92	0.50
2:H:307:LEU:CD1	2:H:310:LEU:HD23	2.41	0.50
2:H:404:LEU:HA	2:H:407:LYS:CD	2.40	0.50
2:H:668:LEU:HD12	2:H:668:LEU:H	1.76	0.50
2:H:1097:LEU:HD12	3:I:1451:ALA:HB2	1.93	0.50
3:I:202:VAL:O	3:I:395:VAL:HG13	2.12	0.50
3:I:450:TYR:CD1	3:I:450:TYR:C	2.89	0.50
3:I:525:ARG:HB2	3:I:538:SER:HB3	1.92	0.50
3:I:603:LEU:HA	3:I:606:ILE:CG2	2.41	0.50
3:I:806:PHE:C	3:I:808:THR:N	2.68	0.50
3:I:1053:PHE:CZ	3:I:1072:ILE:HD12	2.47	0.50
4:J:48:MET:HG3	4:J:49:GLN:N	2.26	0.50
1:K:89:PHE:N	1:K:89:PHE:HD1	2.08	0.50
1:L:66:SER:OG	1:L:75:VAL:HG21	2.12	0.50
3:N:65:ARG:HG3	3:N:66:GLN:H	1.76	0.50
3:N:584:ASN:HD21	3:N:590:PRO:HD2	1.75	0.50
3:N:672:ALA:O	3:N:676:MET:HB2	2.12	0.50
3:N:963:TYR:CD2	3:N:1002:LYS:HB3	2.47	0.50
3:N:1041:LEU:HD12	3:N:1058:ARG:C	2.35	0.50
2:C:224:GLU:HB3	2:C:228:ALA:N	2.26	0.50
2:C:570:PRO:HD2	2:C:635:THR:CG2	2.37	0.50
2:C:612:VAL:HG13	2:C:621:VAL:O	2.12	0.50
2:C:988:VAL:HG12	3:D:948:THR:OG1	2.10	0.50
2:C:1018:GLN:HA	2:C:1018:GLN:NE2	2.27	0.50
3:D:160:GLU:HG2	3:D:165:LYS:CG	2.42	0.50
3:D:202:VAL:O	3:D:395:VAL:HA	2.11	0.50
3:D:614:PHE:CE2	3:D:1438:ALA:HB1	2.46	0.50
3:D:997:THR:HG23	7:X:57:ARG:NH1	2.26	0.50
3:D:1084:THR:HG22	3:D:1087:ARG:HH11	1.75	0.50
3:D:1299:PHE:HD2	3:D:1299:PHE:H	1.59	0.50
1:F:79:ILE:HD12	1:F:79:ILE:C	2.36	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:91:ASN:HD22	1:F:93:SER:HB3	1.77	0.50
1:F:182:GLU:OE1	1:F:194:LYS:HG2	2.10	0.50
1:G:109:VAL:O	1:G:129:ILE:HG12	2.10	0.50
2:H:42:VAL:HG12	2:H:268:ASP:OD2	2.10	0.50
2:H:678:PRO:HG3	2:H:873:PRO:HD2	1.92	0.50
2:H:899:GLN:O	2:H:901:TYR:CE1	2.65	0.50
2:H:1001:VAL:O	2:H:1004:LYS:N	2.29	0.50
3:I:756:GLN:O	3:I:759:ALA:HB3	2.10	0.50
3:I:921:ARG:C	3:I:922:LEU:HD23	2.37	0.50
3:I:1459:LEU:HD12	3:I:1459:LEU:H	1.76	0.50
2:M:64:LEU:CB	2:M:359:MET:HG3	2.41	0.50
2:M:165:LEU:HA	2:M:166:PRO:C	2.37	0.50
2:M:265:ARG:HG2	2:M:267:TYR:CG	2.46	0.50
2:M:839:LEU:N	2:M:839:LEU:CD2	2.70	0.50
3:N:1253:THR:CG2	3:N:1268:PRO:HB3	2.42	0.50
3:N:1272:ALA:CA	3:N:1326:THR:HB	2.41	0.50
3:N:1380:GLU:HG2	3:N:1381:VAL:N	2.26	0.50
3:N:1405:GLU:OE2	3:N:1411:GLY:O	2.29	0.50
4:O:45:ARG:HG2	4:O:46:PRO:CD	2.36	0.50
7:X:102:VAL:HG13	7:X:103:GLN:N	2.26	0.50
7:Z:84:GLY:HA2	7:Z:130:LEU:HD11	1.93	0.50
7:Z:99:ARG:HH11	7:Z:99:ARG:CG	2.24	0.50
1:A:9:PRO:HD2	1:B:224:TYR:CE1	2.46	0.50
2:C:12:VAL:HB	2:C:472:ARG:HH11	1.75	0.50
2:C:73:LEU:HD22	2:C:94:LEU:HB2	1.93	0.50
2:C:182:VAL:O	2:C:193:LEU:CD1	2.60	0.50
2:C:293:PHE:H	2:C:293:PHE:HD1	1.54	0.50
2:C:302:VAL:HG13	2:C:303:PHE:N	2.27	0.50
2:C:434:HIS:HB3	2:C:438:ILE:HB	1.94	0.50
2:C:437:ARG:CZ	2:C:488:ALA:HA	2.41	0.50
2:C:455:LEU:HD12	2:C:456:ALA:O	2.11	0.50
2:C:1032:PHE:HD2	2:C:1037:VAL:HG22	1.75	0.50
2:C:1037:VAL:O	2:C:1041:GLU:HG3	2.11	0.50
3:D:465:LEU:HD11	3:D:509:PRO:O	2.11	0.50
2:H:68:PHE:CD1	2:H:69:LEU:N	2.79	0.50
2:H:75:GLU:OE1	2:H:75:GLU:HA	2.10	0.50
2:H:267:TYR:CD2	2:H:267:TYR:N	2.80	0.50
2:H:282:GLY:O	2:H:283:ILE:CG1	2.30	0.50
2:H:425:PHE:CZ	3:I:1079:LYS:CE	2.94	0.50
2:H:559:LEU:C	2:H:559:LEU:HD23	2.36	0.50
2:H:858:MET:CG	2:H:859:PRO:CD	2.89	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:137:PRO:HG2	3:I:453:ASP:H	1.77	0.50
3:I:411:THR:HG23	3:I:435:VAL:O	2.10	0.50
3:I:654:LYS:HB3	3:I:655:PRO:CD	2.35	0.50
1:L:62:LEU:CD1	1:L:63:HIS:N	2.69	0.50
2:M:165:LEU:HA	2:M:166:PRO:O	2.12	0.50
2:M:869:VAL:CG2	2:M:870:ILE:N	2.75	0.50
2:M:1004:LYS:HG2	3:N:630:VAL:CG2	2.24	0.50
3:N:179:VAL:HG13	3:N:183:GLU:CD	2.37	0.50
3:N:645:PRO:HG2	3:N:724:GLN:O	2.11	0.50
3:N:676:MET:SD	3:N:684:LYS:HE3	2.51	0.50
3:N:1292:VAL:O	3:N:1303:TYR:HB2	2.12	0.50
3:N:1365:ASP:O	3:N:1366:LYS:C	2.53	0.50
7:Z:34:GLN:O	7:Z:38:GLU:HG3	2.12	0.50
1:B:197:LEU:HD21	1:B:199:ILE:HD11	1.93	0.50
2:C:54:ILE:CG2	2:C:54:ILE:O	2.59	0.50
2:C:110:GLU:OE1	2:C:112:GLU:O	2.29	0.50
3:D:583:ASP:OD2	3:D:604:THR:HG21	2.11	0.50
3:D:785:ILE:H	3:D:785:ILE:CD1	1.94	0.50
3:D:982:PHE:HA	7:X:125:MET:HB3	1.92	0.50
3:D:1101:VAL:CG1	3:D:1424:VAL:HG23	2.41	0.50
1:F:54:THR:HG22	1:F:158:ILE:CG1	2.39	0.50
1:F:62:LEU:HD22	2:H:745:ILE:CG2	2.42	0.50
1:G:59:GLU:CG	1:G:139:ASN:HD22	2.20	0.50
1:G:185:ARG:NH2	3:I:692:GLU:CB	2.72	0.50
1:G:186:LEU:O	1:G:186:LEU:HD23	2.11	0.50
1:G:197:LEU:HD23	1:G:197:LEU:C	2.36	0.50
2:H:277:ALA:O	2:H:278:GLU:C	2.52	0.50
2:H:701:THR:HA	2:H:831:ARG:O	2.11	0.50
3:I:36:THR:C	3:I:38:LYS:H	2.20	0.50
3:I:143:ASN:CA	3:I:161:LEU:HD21	2.40	0.50
3:I:402:PRO:N	3:I:443:VAL:HG23	2.27	0.50
3:I:433:GLY:CA	3:I:447:VAL:O	2.59	0.50
3:I:957:PRO:CG	3:I:1007:VAL:HA	2.41	0.50
3:I:1205:TYR:OH	3:I:1367:HIS:HE1	1.93	0.50
1:K:45:LEU:N	1:K:45:LEU:HD12	2.26	0.50
1:K:91:ASN:OD1	1:K:92:PRO:HD2	2.12	0.50
1:K:222:LEU:HD23	1:L:219:ARG:HB2	1.93	0.50
1:L:156:HIS:CG	1:L:157:GLY:N	2.79	0.50
1:L:176:ARG:HD2	1:L:200:TRP:CZ3	2.47	0.50
2:M:207:LEU:HD22	2:M:221:LEU:HD11	1.93	0.50
2:M:496:ILE:N	2:M:496:ILE:CD1	2.75	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1019:GLN:OE1	3:N:621:LYS:HB3	2.11	0.50
2:M:1074:GLU:HG2	2:M:1075:ASP:N	2.19	0.50
3:N:149:LYS:CE	3:N:149:LYS:H	2.25	0.50
3:N:683:ILE:HD13	3:N:688:TRP:CZ2	2.46	0.50
3:N:695:ILE:HD11	3:N:718:PRO:CG	2.42	0.50
3:N:1097:LYS:O	3:N:1100:ASP:HB2	2.11	0.50
3:N:1353:GLN:HG2	3:N:1368:ILE:CD1	2.41	0.50
3:N:1394:VAL:HG12	3:N:1397:LYS:H	1.77	0.50
7:X:32:ILE:HG22	7:X:33:LEU:N	2.25	0.50
7:Y:153:ALA:C	7:Y:154:ILE:HG13	2.37	0.50
1:A:110:LYS:HB2	1:A:112:ARG:HG2	1.93	0.50
2:C:52:PHE:CZ	2:C:98:LEU:HB3	2.38	0.50
2:C:274:ARG:CG	2:C:285:LEU:HD22	2.40	0.50
2:C:284:ARG:CG	2:C:285:LEU:N	2.75	0.50
2:C:473:ARG:HA	2:C:531:PHE:CE1	2.47	0.50
2:C:597:ALA:HA	2:C:655:LEU:HD11	1.93	0.50
2:C:861:LEU:HA	2:C:974:LEU:HD12	1.93	0.50
3:D:52:PRO:O	3:D:86:ARG:HG3	2.12	0.50
3:D:160:GLU:HG2	3:D:165:LYS:CB	2.41	0.50
3:D:400:VAL:HG22	3:D:443:VAL:CG2	2.41	0.50
3:D:481:MET:O	3:D:489:ARG:HB2	2.12	0.50
3:D:1107:VAL:CG1	3:D:1217:ILE:HA	2.40	0.50
1:F:102:LYS:CD	1:F:139:ASN:ND2	2.75	0.50
2:H:98:LEU:N	2:H:98:LEU:CD1	2.57	0.50
2:H:154:ARG:HH22	2:H:178:PRO:HD2	1.75	0.50
2:H:260:LEU:HB2	2:H:291:ALA:HB1	1.93	0.50
2:H:754:ILE:HG12	2:H:791:ARG:NH1	2.27	0.50
2:H:839:LEU:HD21	2:H:849:VAL:HG23	1.94	0.50
2:H:1041:GLU:O	2:H:1042:ALA:C	2.55	0.50
3:I:26:VAL:HB	3:I:93:ILE:HD11	1.93	0.50
3:I:63:TYR:HB3	3:I:68:PHE:CD1	2.46	0.50
3:I:481:MET:HE1	3:I:496:LEU:HD23	1.94	0.50
3:I:581:LEU:N	3:I:581:LEU:CD2	2.73	0.50
3:I:684:LYS:HB2	3:I:687:VAL:HG23	1.94	0.50
3:I:880:ILE:O	3:I:881:LEU:C	2.54	0.50
3:I:1324:PRO:HG3	3:I:1330:ILE:HD11	1.94	0.50
2:M:73:LEU:HB3	2:M:94:LEU:HA	1.93	0.50
2:M:688:ILE:CD1	2:M:847:GLY:HA3	2.42	0.50
2:M:943:VAL:HG13	2:M:944:LEU:N	2.24	0.50
3:N:102:ILE:HG23	3:N:103:TRP:N	2.25	0.50
3:N:204:LEU:CD1	3:N:441:ARG:NH1	2.75	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:462:GLN:HG3	3:N:513:ILE:HG12	1.93	0.50
3:N:897:TRP:CZ3	3:N:902:LEU:HD21	2.46	0.50
3:N:1012:GLU:HG3	3:N:1012:GLU:O	2.12	0.50
3:N:1014:ASN:C	3:N:1016:PRO:HD3	2.37	0.50
3:N:1061:PHE:HE1	3:N:1065:LEU:HD22	1.75	0.50
1:A:88:ARG:HH12	1:A:90:LEU:HD11	1.77	0.50
1:A:112:ARG:HH21	1:A:125:PRO:HB2	1.76	0.50
2:C:113:VAL:HG11	2:C:373:VAL:CG1	2.42	0.50
2:C:134:ARG:NH2	2:C:392:SER:O	2.44	0.50
2:C:143:SER:O	2:C:144:PRO:C	2.54	0.50
2:C:182:VAL:HG12	2:C:193:LEU:CD2	2.33	0.50
2:C:242:LEU:HD11	2:C:254:VAL:HG21	1.94	0.50
2:C:1012:PRO:HD2	2:C:1026:GLN:HB2	1.94	0.50
2:C:1084:SER:CB	3:D:617:ASN:HD21	2.18	0.50
3:D:633:VAL:N	3:D:740:PHE:CE2	2.80	0.50
3:D:1063:GLU:CD	3:D:1064:GLY:H	2.20	0.50
3:D:1468:LEU:HD13	3:D:1470:ARG:HD3	1.94	0.50
4:E:37:ASN:N	4:E:37:ASN:ND2	2.45	0.50
1:F:78:ILE:O	1:F:81:ASN:N	2.45	0.50
1:G:41:ARG:HG3	1:G:177:VAL:HG23	1.94	0.50
1:G:83:LYS:NZ	3:I:848:GLU:OE1	2.44	0.50
2:H:2:GLU:O	2:H:899:GLN:HB2	2.12	0.50
2:H:140:ILE:HG23	2:H:410:ILE:HG23	1.94	0.50
2:H:332:ARG:HG3	2:H:464:LEU:O	2.12	0.50
2:H:524:VAL:HG11	2:H:528:GLU:HB2	1.91	0.50
3:I:39:PRO:O	3:I:40:GLU:O	2.30	0.50
3:I:206:ARG:NH2	3:I:441:ARG:NH2	2.59	0.50
3:I:411:THR:HG23	3:I:436:GLU:HA	1.94	0.50
3:I:784:ASP:CB	3:I:939:PHE:HE2	2.25	0.50
3:I:968:ASP:O	3:I:971:LEU:HB3	2.11	0.50
3:I:1207:TYR:CE2	3:I:1212:ALA:O	2.65	0.50
3:I:1251:ASP:C	3:I:1252:ILE:HG12	2.36	0.50
2:M:137:VAL:HG22	2:M:391:LEU:O	2.12	0.50
2:M:191:PHE:HD2	2:M:195:LEU:HD23	1.76	0.50
2:M:1044:GLY:HA2	3:N:1475:GLY:CA	2.42	0.50
3:N:143:ASN:CA	3:N:161:LEU:HD21	2.22	0.50
3:N:554:LEU:CD1	3:N:570:GLU:HB3	2.42	0.50
3:N:684:LYS:HB2	3:N:687:VAL:CG2	2.35	0.50
3:N:786:ILE:HD13	3:N:911:LEU:HD22	1.93	0.50
4:O:30:LEU:O	4:O:35:PHE:HA	2.12	0.50
2:C:12:VAL:CB	2:C:472:ARG:HH11	2.25	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:216:GLU:CG	2:C:219:GLN:HE22	2.25	0.50
2:C:282:GLY:O	2:C:283:ILE:CD1	2.60	0.50
2:C:292:ARG:CB	2:C:299:LYS:HG2	2.42	0.50
2:C:473:ARG:HA	2:C:531:PHE:CD1	2.47	0.50
2:C:1086:ARG:NH1	3:D:88:TYR:CZ	2.80	0.50
3:D:51:GLY:O	3:D:86:ARG:NE	2.45	0.50
3:D:176:ASP:HB2	3:D:388:HIS:O	2.11	0.50
3:D:181:ASP:OD1	3:D:441:ARG:CZ	2.60	0.50
3:D:850:LEU:H	3:D:850:LEU:CD1	2.10	0.50
3:D:956:ILE:HD11	3:D:1062:ARG:CB	2.42	0.50
3:D:1213:ARG:CB	3:D:1214:PRO:CD	2.90	0.50
1:F:88:ARG:HD3	1:F:123:MET:HE1	1.92	0.50
1:F:101:LEU:HD12	1:F:113:ASP:C	2.37	0.50
1:G:82:LEU:HD13	1:G:142:VAL:HG11	1.94	0.50
2:H:224:GLU:OE1	2:H:226:VAL:CG1	2.60	0.50
2:H:684:PHE:CB	3:I:633:VAL:HG21	2.42	0.50
2:H:685:GLU:OE2	7:Y:41:ASP:CG	2.55	0.50
3:I:1047:LYS:HZ2	3:I:1053:PHE:HA	1.76	0.50
3:I:1066:THR:CG2	3:I:1069:GLU:HB2	2.42	0.50
3:I:1272:ALA:HA	3:I:1326:THR:HB	1.93	0.50
4:J:40:LEU:HD21	4:J:67:GLU:HA	1.93	0.50
1:L:42:ARG:HG2	1:L:42:ARG:HH11	1.77	0.50
2:M:304:LEU:CG	2:M:305:PRO:HD3	2.42	0.50
2:M:838:LYS:CD	2:M:846:LYS:HZ1	2.25	0.50
2:M:997:LEU:O	2:M:999:HIS:N	2.39	0.50
2:M:1067:TYR:CE2	2:M:1071:ILE:HD11	2.46	0.50
3:N:29:PRO:HD3	3:N:548:ILE:HG22	1.93	0.50
3:N:1053:PHE:CE1	3:N:1072:ILE:HG23	2.47	0.50
3:N:1273:VAL:HG22	3:N:1326:THR:OG1	2.12	0.50
3:N:1452:ILE:H	3:N:1452:ILE:CD1	2.23	0.50
7:X:119:ILE:HG13	7:X:125:MET:SD	2.51	0.50
7:X:125:MET:HA	7:X:140:LEU:CD1	2.42	0.50
7:Y:134:VAL:HG23	7:Y:154:ILE:CD1	2.41	0.50
1:A:156:HIS:ND1	1:A:158:ILE:HD11	2.26	0.49
1:A:206:THR:HG22	1:A:209:GLU:CG	2.41	0.49
1:B:185:ARG:NH1	3:D:692:GLU:HB3	2.26	0.49
2:C:66:LEU:HD13	2:C:372:LEU:HD23	1.95	0.49
2:C:127:PHE:CE1	2:C:136:ILE:HD13	2.47	0.49
2:C:139:GLN:O	2:C:333:ILE:HA	2.12	0.49
2:C:150:PRO:HA	2:C:158:TYR:HB3	1.93	0.49
2:C:964:LYS:O	2:C:968:LEU:HG	2.12	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1036:GLU:HG3	3:D:707:THR:OG1	2.12	0.49
3:D:142:LEU:HD22	3:D:145:VAL:N	2.28	0.49
3:D:352:ASN:O	3:D:368:VAL:HG13	2.12	0.49
3:D:481:MET:HE2	3:D:493:ARG:HB2	1.93	0.49
3:D:1040:GLY:O	3:D:1041:LEU:HB3	2.11	0.49
3:D:1057:VAL:HG13	3:D:1069:GLU:CG	2.41	0.49
1:F:101:LEU:HD23	1:F:101:LEU:C	2.37	0.49
2:H:83:CYS:HB3	2:H:88:LEU:O	2.12	0.49
2:H:98:LEU:HD11	2:H:113:VAL:CG2	2.41	0.49
2:H:115:LEU:HA	2:H:375:SER:HB2	1.93	0.49
2:H:368:THR:CB	2:H:369:PRO:CD	2.89	0.49
2:H:435:TYR:HA	3:I:1071:PHE:CE2	2.46	0.49
2:H:468:ARG:HG2	2:H:486:MET:C	2.37	0.49
2:H:577:PRO:HG3	2:H:993:PHE:CE1	2.48	0.49
2:H:742:VAL:CG1	2:H:743:VAL:N	2.74	0.49
3:I:557:LEU:HD12	3:I:570:GLU:HG3	1.94	0.49
3:I:991:GLN:O	3:I:994:GLN:HB3	2.11	0.49
3:I:1086:LEU:HD12	3:I:1086:LEU:N	2.26	0.49
3:I:1476:THR:CG2	4:J:21:VAL:HG22	2.42	0.49
1:K:184:THR:HG21	1:K:192:LEU:CD1	2.40	0.49
1:L:56:VAL:HG21	1:L:82:LEU:HD12	1.94	0.49
2:M:140:ILE:HD13	2:M:331:ARG:HH21	1.77	0.49
2:M:162:ILE:O	2:M:164:PRO:HD3	2.12	0.49
3:N:100:ALA:HB2	3:N:128:TYR:OH	2.12	0.49
3:N:142:LEU:HA	3:N:145:VAL:O	2.12	0.49
3:N:1197:ARG:CG	3:N:1198:TYR:H	2.24	0.49
3:N:1330:ILE:HG22	3:N:1331:ASP:N	2.27	0.49
3:N:1403:LEU:HD22	3:N:1407:LEU:HD22	1.94	0.49
7:X:100:LEU:HD11	7:X:117:MET:CE	2.41	0.49
7:Y:5:VAL:HG11	7:Y:72:ALA:HB2	1.94	0.49
1:A:151:VAL:HB	1:A:169:ALA:HB3	1.94	0.49
1:B:143:ARG:HH11	1:B:158:ILE:CG2	2.25	0.49
2:C:94:LEU:HD12	2:C:94:LEU:C	2.36	0.49
2:C:274:ARG:HG2	2:C:274:ARG:HH11	1.76	0.49
2:C:274:ARG:HG3	2:C:285:LEU:HD22	1.94	0.49
2:C:1086:ARG:NH1	3:D:88:TYR:CE1	2.77	0.49
3:D:141:ILE:CG1	3:D:448:GLU:CD	2.80	0.49
3:D:956:ILE:HD12	3:D:956:ILE:N	2.27	0.49
3:D:1042:ARG:HH11	3:D:1042:ARG:HB2	1.75	0.49
3:D:1372:VAL:O	3:D:1375:MET:HB2	2.12	0.49
3:D:1434:TRP:CZ3	3:D:1457:ASP:HB2	2.47	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:146:ARG:HG3	1:G:146:ARG:O	2.12	0.49
2:H:139:GLN:O	2:H:333:ILE:HA	2.13	0.49
2:H:196:LEU:HD23	2:H:200:LEU:HD11	1.94	0.49
2:H:239:PHE:CZ	2:H:255:ALA:HB2	2.46	0.49
2:H:540:PHE:N	2:H:540:PHE:CD2	2.77	0.49
2:H:544:THR:C	2:H:546:LEU:N	2.70	0.49
3:I:396:VAL:O	3:I:398:ALA:N	2.45	0.49
3:I:465:LEU:HD22	3:I:510:GLU:N	2.28	0.49
3:I:765:SER:O	3:I:767:HIS:N	2.45	0.49
3:I:790:TYR:CD1	3:I:790:TYR:C	2.89	0.49
3:I:1101:VAL:HG23	3:I:1102:THR:HG23	1.93	0.49
3:I:1115:THR:CG2	3:I:1151:ARG:HH21	2.25	0.49
3:I:1231:GLU:CB	3:I:1232:PRO:CD	2.90	0.49
3:I:1380:GLU:HA	3:I:1391:GLU:O	2.13	0.49
2:M:575:GLN:C	2:M:667:ALA:HB1	2.38	0.49
3:N:148:GLU:HB3	3:N:151:GLN:CG	2.42	0.49
3:N:409:VAL:HG12	3:N:410:SER:H	1.76	0.49
3:N:477:LEU:HD22	3:N:492:ALA:CB	2.39	0.49
3:N:1262:LEU:HD21	3:N:1351:GLU:HG3	1.93	0.49
3:N:1381:VAL:CG2	3:N:1391:GLU:HB2	2.41	0.49
4:O:3:GLU:OE1	4:O:3:GLU:HA	2.12	0.49
4:O:36:LYS:HE2	4:O:36:LYS:HA	1.93	0.49
7:Z:119:ILE:HD13	7:Z:119:ILE:N	2.27	0.49
1:A:21:GLY:HA3	1:A:207:PRO:HB3	1.95	0.49
1:A:22:GLU:HG2	1:A:198:ARG:HB3	1.94	0.49
1:A:44:LEU:HD13	1:A:177:VAL:HG21	1.94	0.49
2:C:100:LEU:HD12	2:C:101:ILE:N	2.27	0.49
2:C:1005:MET:HE1	3:D:724:GLN:O	2.12	0.49
3:D:700:VAL:HG22	3:D:718:PRO:HG3	1.94	0.49
3:D:795:VAL:CG2	3:D:879:ARG:NH1	2.75	0.49
2:H:182:VAL:C	2:H:193:LEU:HD13	2.37	0.49
2:H:254:VAL:HA	2:H:257:VAL:CG2	2.42	0.49
2:H:358:ARG:NH2	2:H:374:ASN:HB3	2.27	0.49
2:H:437:ARG:C	2:H:438:ILE:HG13	2.37	0.49
2:H:690:ILE:CD1	2:H:694:LEU:HD12	2.42	0.49
2:H:904:PRO:CD	2:H:908:GLY:HA2	2.40	0.49
3:I:646:LYS:HG3	3:I:647:ARG:H	1.76	0.49
3:I:1366:LYS:O	3:I:1369:GLU:HB2	2.12	0.49
2:M:227:PHE:HD2	2:M:237:ARG:HE	1.60	0.49
2:M:428:ARG:NH2	2:M:451:LEU:HD11	2.27	0.49
2:M:471:TYR:HH	2:M:491:GLU:CD	2.19	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:839:LEU:HD23	2:M:839:LEU:H	1.73	0.49
3:N:847:ASP:O	3:N:851:LEU:HG	2.12	0.49
3:N:1286:THR:O	3:N:1286:THR:CG2	2.41	0.49
3:N:1443:THR:O	3:N:1447:LEU:HD13	2.12	0.49
3:N:1487:VAL:CG1	3:N:1488:ASP:N	2.75	0.49
7:X:30:THR:O	7:X:31:LYS:C	2.55	0.49
7:Y:123:SER:O	7:Y:127:LYS:N	2.40	0.49
7:Z:153:ALA:C	7:Z:154:ILE:HG13	2.37	0.49
2:C:41:ASN:O	2:C:41:ASN:ND2	2.46	0.49
2:C:242:LEU:CD1	2:C:254:VAL:HG21	2.43	0.49
2:C:603:VAL:HB	2:C:646:GLY:N	2.27	0.49
2:C:661:SER:HA	2:C:665:PHE:O	2.12	0.49
3:D:486:ARG:HA	3:D:489:ARG:CD	2.43	0.49
3:D:728:LEU:HD22	3:D:745:MET:SD	2.52	0.49
3:D:957:PRO:HG3	3:D:1007:VAL:HA	1.94	0.49
3:D:975:GLU:O	3:D:979:GLU:HG3	2.12	0.49
3:D:1086:LEU:HD12	3:D:1086:LEU:H	1.77	0.49
3:D:1205:TYR:CE2	3:D:1215:VAL:HG21	2.47	0.49
3:D:1401:GLU:OE2	3:D:1415:VAL:HG21	2.11	0.49
3:D:1434:TRP:CE2	3:D:1435:LEU:HD12	2.47	0.49
1:F:63:HIS:HB3	2:H:799:ILE:HG21	1.93	0.49
1:F:156:HIS:CD2	1:F:157:GLY:N	2.80	0.49
1:G:76:VAL:HB	3:I:872:ARG:CZ	2.42	0.49
1:G:198:ARG:HG3	1:G:200:TRP:CH2	2.47	0.49
2:H:87:ASP:CG	2:H:824:ARG:HH21	2.21	0.49
2:H:88:LEU:HD13	2:H:89:THR:N	2.27	0.49
2:H:300:ASP:O	2:H:302:VAL:N	2.45	0.49
2:H:327:HIS:CE1	2:H:489:THR:HA	2.47	0.49
3:I:407:VAL:HG12	3:I:408:GLU:N	2.28	0.49
3:I:638:LYS:HA	3:I:932:ASP:OD1	2.12	0.49
3:I:796:ARG:HB2	3:I:828:LYS:HD2	1.95	0.49
3:I:829:VAL:CG1	3:I:830:ALA:N	2.75	0.49
3:I:1000:THR:HG23	3:I:1001:GLU:H	1.77	0.49
3:I:1205:TYR:OH	3:I:1367:HIS:CE1	2.65	0.49
1:K:73:GLU:HG2	1:K:77:GLU:HG2	1.95	0.49
2:M:78:PHE:N	2:M:78:PHE:CD1	2.80	0.49
2:M:193:LEU:N	2:M:193:LEU:CD1	2.75	0.49
2:M:292:ARG:HD2	2:M:299:LYS:CE	2.41	0.49
2:M:556:ASN:OD1	7:Z:46:SER:N	2.46	0.49
2:M:988:VAL:HG12	3:N:948:THR:OG1	2.11	0.49
3:N:41:ARG:C	3:N:43:GLY:H	2.21	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:47:GLU:O	3:N:51:GLY:N	2.46	0.49
3:N:62:LYS:HB2	3:N:73:CYS:SG	2.53	0.49
3:N:109:PRO:CB	3:N:494:LYS:HZ3	2.14	0.49
3:N:820:GLU:HG2	3:N:825:ALA:O	2.12	0.49
3:N:1123:PHE:CE2	3:N:1184:GLN:HG3	2.47	0.49
3:N:1364:HIS:ND1	3:N:1365:ASP:N	2.59	0.49
4:O:33:HIS:CD2	4:O:89:MET:HG2	2.47	0.49
7:Y:58:ILE:HG22	7:Y:59:GLU:N	2.27	0.49
7:Z:102:VAL:HG13	7:Z:103:GLN:N	2.28	0.49
1:A:24:VAL:HG22	1:A:196:THR:CG2	2.43	0.49
1:B:122:ILE:HD12	1:B:122:ILE:N	2.27	0.49
2:C:281:LEU:HD12	2:C:306:THR:HA	1.93	0.49
2:C:428:ARG:CZ	2:C:451:LEU:HD11	2.43	0.49
2:C:449:ILE:C	2:C:451:LEU:H	2.21	0.49
2:C:610:ARG:HH11	2:C:610:ARG:HG3	1.78	0.49
2:C:631:SER:CB	2:C:637:LEU:HD11	2.43	0.49
2:C:863:ASP:O	2:C:865:THR:N	2.45	0.49
3:D:208:PRO:HG2	3:D:347:VAL:CG1	2.42	0.49
3:D:546:ARG:HH11	3:D:546:ARG:CG	2.25	0.49
3:D:1043:GLY:O	3:D:1057:VAL:N	2.38	0.49
3:D:1068:LEU:O	3:D:1069:GLU:C	2.55	0.49
3:D:1481:VAL:C	3:D:1483:PHE:N	2.70	0.49
4:E:32:ARG:HG2	4:E:33:HIS:N	2.27	0.49
4:E:54:LEU:HG	4:E:58:PRO:CB	2.42	0.49
4:E:61:VAL:HG23	4:E:62:THR:N	2.28	0.49
1:G:13:VAL:HG22	1:G:23:PHE:HD1	1.77	0.49
1:G:206:THR:CG2	1:G:209:GLU:H	2.26	0.49
2:H:13:ILE:HG13	2:H:13:ILE:O	2.09	0.49
2:H:575:GLN:HE21	2:H:671:ASN:H	1.59	0.49
2:H:987:ILE:HD12	3:I:948:THR:CG2	2.43	0.49
3:I:135:LEU:HD23	3:I:135:LEU:C	2.38	0.49
3:I:409:VAL:HG12	3:I:410:SER:H	1.78	0.49
3:I:409:VAL:HG12	3:I:410:SER:N	2.28	0.49
3:I:666:ILE:HG12	3:I:686:GLU:OE2	2.12	0.49
3:I:730:PRO:HA	3:I:733:CYS:SG	2.52	0.49
3:I:800:LYS:HG2	3:I:825:ALA:HA	1.94	0.49
3:I:820:GLU:CG	3:I:836:VAL:HG11	2.43	0.49
1:K:25:LEU:HD13	1:L:225:PHE:CE2	2.47	0.49
2:M:30:LEU:O	2:M:30:LEU:CD1	2.57	0.49
2:M:95:TYR:CD2	2:M:114:PHE:CB	2.96	0.49
2:M:144:PRO:O	2:M:276:LYS:NZ	2.41	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:174:LEU:HD21	2:M:184:MET:HG3	1.93	0.49
2:M:588:VAL:HG13	2:M:666:LEU:HB2	1.93	0.49
2:M:1063:ARG:NH2	3:N:625:TYR:OH	2.46	0.49
3:N:122:GLU:O	3:N:126:VAL:HG23	2.11	0.49
3:N:134:VAL:CG1	3:N:135:LEU:N	2.75	0.49
3:N:149:LYS:H	3:N:149:LYS:HE3	1.78	0.49
3:N:834:THR:HG22	3:N:838:ARG:NH1	2.25	0.49
3:N:868:TYR:CE1	3:N:869:MET:HG3	2.48	0.49
3:N:1047:LYS:HD2	3:N:1051:GLU:HG3	1.94	0.49
3:N:1105:ILE:HD12	3:N:1105:ILE:H	1.73	0.49
7:X:6:LYS:CD	7:X:75:LEU:HD11	2.42	0.49
7:Z:115:THR:HG1	7:Z:116:PRO:HD3	1.75	0.49
1:A:131:THR:C	1:A:132:LEU:HD12	2.38	0.49
1:B:26:GLU:CB	1:B:27:PRO:HA	2.36	0.49
2:C:101:ILE:CD1	2:C:107:LEU:HB3	2.42	0.49
2:C:165:LEU:CB	2:C:265:ARG:NH1	2.76	0.49
2:C:193:LEU:H	2:C:193:LEU:CD1	2.25	0.49
2:C:227:PHE:HD2	2:C:237:ARG:HD3	1.76	0.49
2:C:580:MET:SD	2:C:584:GLU:HG3	2.53	0.49
2:C:673:LEU:HD23	2:C:674:VAL:N	2.26	0.49
3:D:40:GLU:OE1	3:D:40:GLU:HA	2.10	0.49
3:D:52:PRO:HG2	3:D:80:VAL:CG2	2.42	0.49
3:D:387:LEU:H	3:D:387:LEU:CD1	2.21	0.49
3:D:520:LEU:CD1	3:D:521:PRO:HD2	2.43	0.49
3:D:704:ARG:NH1	3:D:743:ASP:HB3	2.28	0.49
3:D:1311:LEU:HD23	3:D:1311:LEU:H	1.73	0.49
3:D:1332:PRO:CB	3:D:1421:LEU:HD21	2.43	0.49
1:G:104:GLU:HA	1:G:136:GLY:O	2.13	0.49
2:H:836:GLY:C	2:H:1001:VAL:CG2	2.85	0.49
3:I:149:LYS:H	3:I:149:LYS:CE	2.25	0.49
3:I:434:ARG:HB2	3:I:449:SER:HB3	1.94	0.49
3:I:715:ALA:HB3	3:I:764:LEU:HA	1.93	0.49
3:I:785:ILE:HG22	3:I:789:LEU:CD1	2.43	0.49
3:I:835:SER:O	3:I:836:VAL:C	2.54	0.49
3:I:1205:TYR:O	3:I:1366:LYS:HE2	2.12	0.49
3:I:1459:LEU:H	3:I:1459:LEU:CD1	2.25	0.49
1:K:62:LEU:HD23	1:K:163:ASN:HD21	1.73	0.49
1:L:185:ARG:CZ	3:N:692:GLU:CG	2.89	0.49
2:M:263:ASP:O	2:M:264:PRO:C	2.54	0.49
2:M:339:LEU:HD22	2:M:385:PHE:HZ	1.77	0.49
2:M:455:LEU:CD1	2:M:459:ALA:HB3	2.26	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:759:THR:HB	2:M:785:VAL:HG21	1.93	0.49
2:M:835:VAL:O	2:M:849:VAL:O	2.30	0.49
3:N:212:ARG:HB3	3:N:386:HIS:HB2	1.94	0.49
3:N:355:VAL:HG13	3:N:356:PRO:HD2	1.94	0.49
3:N:1068:LEU:O	3:N:1069:GLU:C	2.55	0.49
3:N:1132:LEU:N	3:N:1132:LEU:CD1	2.76	0.49
4:O:47:LYS:CA	4:O:54:LEU:HB3	2.37	0.49
7:Z:99:ARG:HH11	7:Z:99:ARG:HG3	1.78	0.49
1:A:7:LYS:HB2	1:A:186:LEU:HD22	1.94	0.49
2:C:576:ALA:HB3	2:C:900:ARG:NH1	2.27	0.49
3:D:24:GLY:HA3	3:D:49:ILE:HG12	1.94	0.49
3:D:51:GLY:O	3:D:86:ARG:CZ	2.60	0.49
3:D:141:ILE:HG13	3:D:448:GLU:OE1	2.13	0.49
3:D:180:LYS:NZ	3:D:387:LEU:N	2.60	0.49
3:D:208:PRO:C	3:D:210:ARG:N	2.68	0.49
3:D:470:LEU:HD12	3:D:503:LEU:CD2	2.42	0.49
3:D:820:GLU:CD	3:D:820:GLU:O	2.56	0.49
3:D:879:ARG:HH21	3:D:903:ASP:C	2.20	0.49
3:D:1065:LEU:HD23	3:D:1070:TYR:CD2	2.48	0.49
3:D:1164:ARG:NH1	3:D:1170:ASP:OD1	2.45	0.49
1:F:26:GLU:HG2	1:F:27:PRO:HA	1.94	0.49
1:F:62:LEU:HB3	2:H:746:GLY:HA3	1.95	0.49
1:F:65:PHE:N	1:F:65:PHE:CD2	2.78	0.49
1:G:84:GLU:CB	1:G:127:LEU:HD21	2.43	0.49
3:I:759:ALA:HA	3:I:763:MET:HE2	1.94	0.49
3:I:794:GLN:CD	3:I:795:VAL:H	2.18	0.49
3:I:999:THR:CG2	3:I:1000:THR:N	2.74	0.49
3:I:1356:TYR:HB3	3:I:1361:VAL:HB	1.93	0.49
3:I:1426:LYS:O	3:I:1426:LYS:HG2	2.12	0.49
1:K:65:PHE:CZ	2:M:799:ILE:HD12	2.47	0.49
1:K:178:ALA:HB2	2:M:864:GLY:H	1.77	0.49
1:K:179:PHE:CD1	1:K:179:PHE:C	2.90	0.49
2:M:221:LEU:C	2:M:223:ASP:N	2.60	0.49
2:M:322:VAL:HG23	2:M:322:VAL:O	2.13	0.49
2:M:523:ILE:HG23	2:M:523:ILE:O	2.12	0.49
2:M:740:GLU:OE1	2:M:740:GLU:N	2.45	0.49
3:N:87:ARG:HD2	3:N:88:TYR:HE2	1.76	0.49
3:N:142:LEU:HD23	3:N:144:GLY:C	2.37	0.49
3:N:158:TYR:CD1	3:N:158:TYR:C	2.89	0.49
3:N:483:HIS:N	3:N:483:HIS:CD2	2.81	0.49
3:N:970:LYS:HE3	3:N:973:GLN:HE21	1.77	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:991:GLN:NE2	7:Z:111:ASN:OD1	2.46	0.49
3:N:1109:GLU:CD	3:N:1202:GLN:H	2.21	0.49
3:N:1112:CYS:SG	3:N:1112:CYS:O	2.70	0.49
3:N:1147:ARG:HD2	3:N:1188:VAL:CG2	2.42	0.49
3:N:1276:GLU:C	3:N:1277:ILE:HD12	2.37	0.49
3:N:1415:VAL:O	3:N:1417:TRP:CE3	2.66	0.49
7:Y:57:ARG:NH2	7:Y:61:ARG:HD2	2.27	0.49
1:A:50:GLY:HA3	1:A:173:PRO:HG3	1.95	0.49
1:A:64:GLU:OE2	1:A:79:ILE:CD1	2.60	0.49
2:C:165:LEU:HA	2:C:166:PRO:O	2.13	0.49
2:C:548:PRO:CG	2:C:842:ARG:NH1	2.76	0.49
2:C:556:ASN:OD1	7:X:45:ASP:HA	2.13	0.49
2:C:816:LYS:HB2	2:C:819:VAL:HG21	1.95	0.49
2:C:886:LEU:CD2	3:D:951:ILE:HD12	2.43	0.49
2:C:1019:GLN:NE2	3:D:621:LYS:HG3	2.27	0.49
2:C:1085:PHE:O	2:C:1089:VAL:HG23	2.13	0.49
3:D:139:GLY:CA	3:D:162:ARG:NH2	2.75	0.49
3:D:354:VAL:O	3:D:354:VAL:HG12	2.12	0.49
3:D:840:LYS:HB3	3:D:841:TYR:CD2	2.47	0.49
3:D:1220:ALA:HB1	3:D:1223:ILE:HG12	1.93	0.49
1:G:185:ARG:C	1:G:185:ARG:CD	2.83	0.49
2:H:73:LEU:HD12	2:H:73:LEU:O	2.13	0.49
2:H:224:GLU:HB3	2:H:228:ALA:H	1.78	0.49
2:H:473:ARG:HG2	2:H:473:ARG:NH1	2.28	0.49
2:H:496:ILE:N	2:H:496:ILE:CD1	2.75	0.49
2:H:835:VAL:O	2:H:849:VAL:O	2.31	0.49
2:H:1044:GLY:HA2	3:I:1475:GLY:HA3	1.95	0.49
3:I:29:PRO:HB2	3:I:545:ARG:HG3	1.94	0.49
3:I:84:ILE:HD12	3:I:88:TYR:CE1	2.47	0.49
3:I:403:PHE:HB2	3:I:423:ASP:OD1	2.13	0.49
3:I:729:HIS:ND1	3:I:731:LEU:N	2.61	0.49
3:I:1171:VAL:O	3:I:1175:ILE:HG12	2.13	0.49
3:I:1397:LYS:HD2	3:I:1432:LYS:NZ	2.28	0.49
1:K:48:ILE:HD13	1:K:210:ALA:HB1	1.95	0.49
1:K:111:ALA:HA	1:K:129:ILE:HD11	1.95	0.49
2:M:94:LEU:HD12	2:M:95:TYR:N	2.28	0.49
2:M:196:LEU:HD23	2:M:200:LEU:HD21	1.95	0.49
2:M:380:ALA:O	2:M:384:GLU:HB2	2.12	0.49
2:M:602:GLU:HG3	2:M:603:VAL:H	1.77	0.49
2:M:674:VAL:HB	2:M:869:VAL:HG13	1.93	0.49
2:M:751:PRO:HA	2:M:792:VAL:CG1	2.42	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1042:ALA:CB	3:N:1227:GLN:HE22	2.26	0.49
3:N:131:LYS:HE3	3:N:456:MET:HE1	1.95	0.49
3:N:581:LEU:N	3:N:581:LEU:CD2	2.75	0.49
3:N:729:HIS:CD2	3:N:729:HIS:C	2.91	0.49
3:N:783:ARG:NH1	7:Z:41:ASP:OD1	2.45	0.49
3:N:1282:ARG:O	3:N:1283:ILE:HD13	2.13	0.49
3:N:1377:LYS:HG2	3:N:1378:TYR:CE1	2.48	0.49
3:N:1484:THR:HG21	4:O:22:VAL:HG22	1.95	0.49
4:O:84:ARG:HG3	4:O:84:ARG:HH11	1.77	0.49
7:Z:21:ARG:HG2	7:Z:21:ARG:NH1	2.28	0.49
1:A:80:LEU:HD23	1:A:80:LEU:C	2.37	0.49
1:B:184:THR:O	1:B:192:LEU:HB2	2.13	0.49
2:C:65:VAL:HB	2:C:101:ILE:HB	1.93	0.49
2:C:195:LEU:HG	2:C:238:LEU:HG	1.95	0.49
2:C:199:VAL:HG21	2:C:238:LEU:CD1	2.38	0.49
2:C:267:TYR:O	2:C:268:ASP:C	2.56	0.49
2:C:328:LEU:HD21	2:C:438:ILE:HD13	1.95	0.49
2:C:564:MET:SD	2:C:846:LYS:HD2	2.53	0.49
3:D:138:LYS:HD3	3:D:138:LYS:H	1.75	0.49
3:D:209:ARG:CB	3:D:389:GLU:HB2	2.43	0.49
3:D:409:VAL:CG1	3:D:413:ASP:HB3	2.42	0.49
3:D:814:ALA:O	3:D:818:ARG:HG3	2.13	0.49
3:D:845:ASN:HB3	3:D:848:GLU:HG2	1.94	0.49
3:D:1101:VAL:HG21	3:D:1424:VAL:HG23	1.94	0.49
3:D:1207:TYR:CE2	3:D:1214:PRO:N	2.81	0.49
3:D:1235:GLN:HG2	7:X:37:MET:HG2	1.95	0.49
2:H:288:ARG:HB2	2:H:288:ARG:CZ	2.43	0.49
2:H:328:LEU:N	2:H:433:THR:HG21	2.28	0.49
2:H:853:LEU:HB3	2:H:858:MET:HE3	1.94	0.49
2:H:939:ARG:HG3	2:H:975:TYR:CE2	2.48	0.49
3:I:584:ASN:HB2	3:I:602:SER:HB3	1.95	0.49
3:I:835:SER:H	3:I:838:ARG:HD3	1.78	0.49
4:J:53:GLY:C	4:J:55:PHE:N	2.70	0.49
2:M:89:THR:HG21	2:M:383:ARG:HH22	1.77	0.49
2:M:112:GLU:HG2	2:M:112:GLU:O	2.12	0.49
2:M:580:MET:SD	2:M:584:GLU:HG3	2.52	0.49
2:M:997:LEU:HD22	2:M:997:LEU:N	2.27	0.49
2:M:1014:SER:CB	2:M:1017:THR:O	2.58	0.49
3:N:1041:LEU:O	3:N:1041:LEU:HD23	2.12	0.49
7:Y:84:GLY:CA	7:Y:130:LEU:HD11	2.38	0.49
7:Z:89:VAL:HG12	7:Z:90:GLU:N	2.28	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:101:LEU:HD21	1:A:109:VAL:HG11	1.94	0.49
1:A:102:LYS:HE3	1:F:57:TYR:CE2	2.47	0.49
2:C:136:ILE:N	2:C:136:ILE:CD1	2.76	0.49
2:C:205:GLU:HB3	2:C:209:ARG:HH12	1.78	0.49
2:C:260:LEU:HA	2:C:291:ALA:HB1	1.94	0.49
2:C:412:ALA:HB1	2:C:419:THR:HG21	1.95	0.49
2:C:474:VAL:HG13	2:C:530:GLU:C	2.38	0.49
2:C:545:ASN:OD1	2:C:905:ILE:HG13	2.13	0.49
2:C:572:ILE:HG23	2:C:703:ILE:CD1	2.43	0.49
2:C:572:ILE:HG23	2:C:703:ILE:HD11	1.95	0.49
2:C:667:ALA:C	2:C:668:LEU:HD12	2.37	0.49
2:C:729:LEU:HG	2:C:729:LEU:O	2.12	0.49
2:C:1103:ASP:OD2	3:D:2:LYS:HG3	2.13	0.49
3:D:104:PHE:HD1	3:D:512:MET:HG2	1.75	0.49
3:D:141:ILE:HG13	3:D:448:GLU:OE2	2.13	0.49
3:D:550:ARG:HD3	3:D:573:MET:HB3	1.95	0.49
3:D:786:ILE:O	3:D:787:LEU:C	2.54	0.49
3:D:1091:SER:OG	5:P:19:DC:P	2.71	0.49
1:F:156:HIS:CD2	1:F:157:GLY:H	2.30	0.49
2:H:39:ARG:HD2	2:H:39:ARG:N	2.25	0.49
2:H:143:SER:O	2:H:144:PRO:C	2.53	0.49
2:H:474:VAL:O	2:H:474:VAL:HG22	2.12	0.49
2:H:588:VAL:HG23	2:H:589:ARG:N	2.27	0.49
2:H:806:LEU:HD13	2:H:813:VAL:HG21	1.94	0.49
2:H:1092:LEU:HB3	2:H:1099:VAL:CG2	2.42	0.49
3:I:63:TYR:HD1	3:I:73:CYS:HG	1.61	0.49
3:I:160:GLU:HG2	3:I:165:LYS:HG3	1.94	0.49
3:I:400:VAL:HG23	3:I:445:ARG:CG	2.39	0.49
3:I:626:SER:O	3:I:652:LEU:HD11	2.13	0.49
3:I:1365:ASP:O	3:I:1366:LYS:C	2.55	0.49
3:I:1465:ASN:ND2	3:I:1465:ASN:O	2.46	0.49
3:I:1488:ASP:O	3:I:1491:THR:N	2.38	0.49
1:K:107:LYS:HG2	1:K:108:GLU:N	2.28	0.49
2:M:170:PRO:HG2	2:M:258:TYR:CE2	2.48	0.49
2:M:275:TYR:CD2	2:M:276:LYS:HG3	2.48	0.49
2:M:661:SER:HA	2:M:665:PHE:O	2.13	0.49
2:M:964:LYS:O	2:M:968:LEU:HG	2.13	0.49
3:N:209:ARG:N	3:N:389:GLU:O	2.46	0.49
3:N:813:LEU:HD12	3:N:814:ALA:CA	2.42	0.49
3:N:1086:LEU:HD12	3:N:1086:LEU:N	2.28	0.49
7:X:84:GLY:HA2	7:X:130:LEU:CD1	2.42	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Y:134:VAL:N	7:Y:154:ILE:HD11	2.28	0.49
1:A:7:LYS:O	1:A:7:LYS:CD	2.60	0.48
1:A:111:ALA:HA	1:A:129:ILE:HD11	1.95	0.48
2:C:238:LEU:O	2:C:241:LEU:HB3	2.13	0.48
2:C:496:ILE:O	2:C:515:ALA:HB1	2.12	0.48
2:C:498:GLN:HA	2:C:498:GLN:NE2	2.24	0.48
2:C:545:ASN:HA	2:C:905:ILE:HD11	1.94	0.48
2:C:873:PRO:HB3	3:D:949:ILE:HD12	1.94	0.48
2:C:1016:ILE:HG13	2:C:1017:THR:N	2.28	0.48
3:D:433:GLY:HA3	3:D:446:VAL:HG12	1.95	0.48
3:D:1031:ASN:HB3	3:D:1034:GLN:HG3	1.95	0.48
4:E:17:TYR:O	4:E:21:VAL:HG23	2.13	0.48
1:F:106:PRO:HG3	1:F:134:GLU:CD	2.38	0.48
1:F:225:PHE:CD1	1:G:215:VAL:HG11	2.48	0.48
1:G:23:PHE:CE2	1:G:199:ILE:HD13	2.48	0.48
1:G:185:ARG:NH1	3:I:692:GLU:HG3	2.28	0.48
2:H:211:LEU:CD2	2:H:221:LEU:CD2	2.91	0.48
2:H:220:GLY:O	2:H:223:ASP:OD2	2.31	0.48
2:H:398:THR:HG22	2:H:568:ALA:O	2.12	0.48
2:H:610:ARG:C	2:H:611:ILE:HD13	2.38	0.48
2:H:836:GLY:C	2:H:1001:VAL:HG21	2.38	0.48
2:H:1075:ASP:OD1	4:J:28:GLN:HG2	2.12	0.48
3:I:835:SER:N	3:I:838:ARG:HD3	2.28	0.48
3:I:1043:GLY:O	3:I:1057:VAL:N	2.37	0.48
3:I:1183:ILE:N	3:I:1183:ILE:HD12	2.28	0.48
4:J:32:ARG:HB2	4:J:32:ARG:CZ	2.41	0.48
2:M:188:LYS:HB2	2:M:188:LYS:HZ3	1.79	0.48
2:M:212:GLY:HA2	2:M:218:VAL:CG2	2.41	0.48
2:M:304:LEU:HG	2:M:305:PRO:HD3	1.95	0.48
2:M:328:LEU:HD23	2:M:437:ARG:HD3	1.95	0.48
2:M:374:ASN:HD22	2:M:374:ASN:C	2.21	0.48
2:M:1008:ARG:HG2	2:M:1008:ARG:HH11	1.77	0.48
3:N:368:VAL:HB	3:N:377:VAL:HB	1.95	0.48
3:N:465:LEU:HD13	3:N:510:GLU:CA	2.43	0.48
3:N:984:THR:OG1	3:N:985:ASP:N	2.46	0.48
3:N:1285:GLU:O	3:N:1286:THR:HB	2.12	0.48
3:N:1330:ILE:HB	3:N:1347:TYR:CZ	2.48	0.48
7:X:6:LYS:CG	7:X:75:LEU:HD11	2.43	0.48
7:X:25:ARG:HB3	7:X:58:ILE:HD11	1.95	0.48
1:B:44:LEU:C	1:B:48:ILE:HD13	2.38	0.48
2:C:85:GLU:O	2:C:824:ARG:NH2	2.46	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:86:LYS:O	2:C:87:ASP:HB2	2.13	0.48
2:C:106:GLY:C	2:C:107:LEU:HD23	2.38	0.48
2:C:483:VAL:CG1	2:C:484:VAL:N	2.76	0.48
2:C:524:VAL:CG1	2:C:528:GLU:HB2	2.43	0.48
2:C:546:LEU:HD13	2:C:565:GLN:OE1	2.12	0.48
2:C:575:GLN:O	2:C:667:ALA:HB1	2.13	0.48
2:C:626:ARG:HB2	2:C:639:GLN:HE21	1.78	0.48
2:C:720:GLU:OE1	2:C:758:ARG:NH1	2.46	0.48
2:C:1001:VAL:O	2:C:1001:VAL:HG12	2.11	0.48
2:C:1031:ARG:HG2	2:C:1033:GLY:H	1.78	0.48
3:D:699:VAL:HA	3:D:718:PRO:HD3	1.94	0.48
3:D:835:SER:N	3:D:838:ARG:CD	2.76	0.48
1:F:99:LEU:CD2	1:F:144:VAL:HG21	2.43	0.48
1:G:60:ASP:OD1	1:G:60:ASP:N	2.44	0.48
2:H:142:ARG:NH1	2:H:147:TYR:HD1	2.11	0.48
2:H:292:ARG:CG	2:H:294:GLU:HG2	2.40	0.48
2:H:539:VAL:C	2:H:540:PHE:CD2	2.91	0.48
2:H:721:ARG:HH11	2:H:721:ARG:HG3	1.77	0.48
2:H:946:ARG:HB3	2:H:946:ARG:HH11	1.78	0.48
2:H:1010:THR:O	2:H:1026:GLN:HG3	2.13	0.48
2:H:1097:LEU:HD21	3:I:10:ILE:HD13	1.95	0.48
3:I:141:ILE:HG13	3:I:448:GLU:OE2	2.13	0.48
3:I:765:SER:C	3:I:767:HIS:N	2.71	0.48
1:K:24:VAL:HG13	1:K:196:THR:HG22	1.94	0.48
2:M:39:ARG:HH11	2:M:39:ARG:HG3	1.77	0.48
2:M:677:MET:C	2:M:873:PRO:HD3	2.38	0.48
2:M:1050:GLN:OE1	2:M:1050:GLN:HA	2.12	0.48
3:N:143:ASN:CA	3:N:161:LEU:CD2	2.83	0.48
3:N:909:ASN:HA	3:N:912:LYS:HB3	1.95	0.48
3:N:1200:VAL:CG2	3:N:1373:ARG:NH1	2.75	0.48
7:Z:43:TYR:O	7:Z:44:ASP:C	2.54	0.48
2:C:68:PHE:C	2:C:69:LEU:HD23	2.39	0.48
2:C:220:GLY:O	2:C:223:ASP:OD2	2.31	0.48
2:C:559:LEU:C	2:C:559:LEU:HD23	2.38	0.48
2:C:676:ILE:HG23	2:C:988:VAL:HG13	1.91	0.48
2:C:693:GLU:OE1	2:C:696:LYS:HD2	2.14	0.48
2:C:973:VAL:HG12	2:C:974:LEU:N	2.27	0.48
3:D:204:LEU:HG	3:D:394:LEU:HD21	1.95	0.48
3:D:925:GLU:HB3	4:E:2:ALA:HB3	1.95	0.48
3:D:1086:LEU:N	3:D:1086:LEU:CD1	2.76	0.48
3:D:1112:CYS:HB2	3:D:1195:GLN:OE1	2.13	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1263:PHE:O	3:D:1424:VAL:HG12	2.14	0.48
3:D:1459:LEU:HD21	3:D:1468:LEU:HD12	1.94	0.48
1:G:132:LEU:HD23	1:G:136:GLY:O	2.14	0.48
1:G:188:GLN:HE21	1:G:188:GLN:N	2.03	0.48
2:H:263:ASP:O	2:H:264:PRO:C	2.52	0.48
2:H:263:ASP:O	2:H:264:PRO:O	2.31	0.48
2:H:384:GLU:O	2:H:388:ARG:HB2	2.13	0.48
2:H:689:VAL:HG11	2:H:870:ILE:HD11	1.95	0.48
3:I:481:MET:O	3:I:489:ARG:HB2	2.14	0.48
3:I:712:GLY:C	3:I:713:ILE:HG13	2.38	0.48
3:I:799:LYS:O	3:I:826:PRO:HG2	2.14	0.48
2:M:184:MET:SD	2:M:191:PHE:HE1	2.36	0.48
2:M:394:PHE:CD1	2:M:632:ASN:ND2	2.82	0.48
2:M:805:ARG:CD	2:M:807:ARG:HG2	2.44	0.48
2:M:810:ASP:OD1	2:M:813:VAL:CG1	2.61	0.48
2:M:1067:TYR:CD2	2:M:1071:ILE:HD11	2.48	0.48
3:N:914:LEU:HD22	3:N:930:LEU:HD21	1.95	0.48
3:N:984:THR:HG23	3:N:987:GLU:N	2.20	0.48
3:N:1282:ARG:HG2	3:N:1282:ARG:HH11	1.78	0.48
3:N:1451:ALA:O	3:N:1452:ILE:C	2.56	0.48
4:O:28:GLN:HB3	4:O:32:ARG:HH21	1.78	0.48
7:Z:62:ILE:HD12	7:Z:62:ILE:N	2.27	0.48
2:C:52:PHE:CE1	2:C:66:LEU:HG	2.48	0.48
2:C:52:PHE:O	2:C:52:PHE:CD1	2.65	0.48
2:C:368:THR:O	2:C:372:LEU:HB2	2.14	0.48
2:C:395:LYS:HG2	2:C:397:GLU:CG	2.41	0.48
2:C:441:VAL:HG12	2:C:559:LEU:HA	1.94	0.48
2:C:983:ILE:O	2:C:984:GLU:C	2.56	0.48
2:C:1012:PRO:HD2	2:C:1026:GLN:CB	2.43	0.48
3:D:41:ARG:O	3:D:46:ASP:HB2	2.12	0.48
3:D:214:GLU:O	3:D:383:GLY:HA2	2.13	0.48
3:D:511:TRP:N	3:D:511:TRP:CE3	2.81	0.48
3:D:759:ALA:O	3:D:763:MET:HB3	2.12	0.48
3:D:1352:ILE:O	3:D:1355:VAL:HG23	2.13	0.48
3:D:1387:SER:CB	3:D:1391:GLU:OE2	2.58	0.48
1:G:36:LEU:C	1:G:39:PRO:HD2	2.38	0.48
2:H:86:LYS:O	2:H:87:ASP:HB2	2.13	0.48
2:H:200:LEU:HD13	2:H:300:ASP:OD1	2.13	0.48
2:H:206:THR:CG2	2:H:207:LEU:H	2.26	0.48
2:H:334:ARG:NH2	2:H:342:ASP:OD2	2.46	0.48
2:H:691:SER:C	2:H:693:GLU:N	2.71	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:650:LEU:HD11	3:I:657:LEU:CD2	2.43	0.48
3:I:875:THR:HG22	3:I:879:ARG:HG3	1.95	0.48
3:I:1098:LEU:HD21	3:I:1229:ILE:CG2	2.43	0.48
1:K:83:LYS:NZ	2:M:698:ASP:OD2	2.44	0.48
2:M:143:SER:O	2:M:144:PRO:C	2.55	0.48
2:M:193:LEU:HD12	2:M:193:LEU:H	1.78	0.48
3:N:134:VAL:HG12	3:N:135:LEU:H	1.76	0.48
3:N:400:VAL:HG13	3:N:400:VAL:O	2.12	0.48
3:N:409:VAL:HG12	3:N:410:SER:O	2.13	0.48
3:N:826:PRO:C	3:N:828:LYS:H	2.21	0.48
3:N:899:LEU:HD12	3:N:900:ILE:HG22	1.95	0.48
4:O:45:ARG:NH1	4:O:55:PHE:O	2.46	0.48
1:A:91:ASN:ND2	1:A:93:SER:CB	2.77	0.48
1:B:185:ARG:NE	3:D:692:GLU:HG2	2.27	0.48
1:B:226:SER:O	1:B:228:PRO:HD3	2.13	0.48
2:C:73:LEU:CB	2:C:93:PRO:O	2.61	0.48
2:C:290:LEU:H	2:C:290:LEU:CD2	2.26	0.48
2:C:598:GLU:HB2	2:C:615:TYR:CZ	2.48	0.48
2:C:603:VAL:HB	2:C:646:GLY:H	1.78	0.48
2:C:691:SER:C	2:C:693:GLU:N	2.70	0.48
2:C:975:TYR:HA	2:C:982:PRO:HA	1.94	0.48
3:D:139:GLY:H	3:D:147:VAL:HG21	1.77	0.48
3:D:636:GLN:CG	3:D:637:LEU:N	2.77	0.48
3:D:791:TYR:CD2	3:D:945:SER:HB2	2.49	0.48
3:D:1091:SER:HB3	5:P:19:DC:O4'	2.13	0.48
3:D:1119:SER:O	3:D:1121:PRO:HD3	2.13	0.48
1:F:171:PHE:O	1:F:173:PRO:HD3	2.14	0.48
1:G:32:PHE:O	1:G:36:LEU:HG	2.13	0.48
1:G:80:LEU:HG	3:I:844:ALA:HA	1.94	0.48
2:H:195:LEU:HG	2:H:238:LEU:HG	1.94	0.48
2:H:365:ASP:CG	2:H:365:ASP:O	2.56	0.48
2:H:480:THR:HG22	2:H:481:ASP:N	2.23	0.48
2:H:678:PRO:CG	3:I:947:ILE:HD11	2.40	0.48
2:H:861:LEU:CG	2:H:862:PRO:HD2	2.43	0.48
2:H:1097:LEU:HD12	3:I:1451:ALA:CB	2.44	0.48
3:I:95:LEU:CD2	3:I:574:LEU:HD21	2.43	0.48
3:I:100:ALA:CB	3:I:128:TYR:OH	2.60	0.48
3:I:142:LEU:HD23	3:I:146:PRO:N	2.29	0.48
3:I:185:VAL:CG2	3:I:189:GLN:NE2	2.75	0.48
3:I:426:LYS:CE	3:I:427:VAL:HG23	2.44	0.48
3:I:465:LEU:HD21	3:I:509:PRO:CB	2.41	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:696:HIS:NE2	4:J:54:LEU:HD11	2.29	0.48
3:I:1051:GLU:O	3:I:1051:GLU:CG	2.60	0.48
3:I:1340:GLY:O	3:I:1344:VAL:HG23	2.13	0.48
3:I:1356:TYR:N	3:I:1356:TYR:CD1	2.81	0.48
1:L:91:ASN:HB2	1:L:92:PRO:HD2	1.94	0.48
2:M:445:GLU:OE2	7:Z:44:ASP:CG	2.57	0.48
2:M:537:LYS:HD3	2:M:537:LYS:H	1.79	0.48
2:M:668:LEU:HD12	2:M:668:LEU:H	1.75	0.48
3:N:36:THR:C	3:N:38:LYS:H	2.21	0.48
3:N:129:PHE:HE2	3:N:579:ASP:OD2	1.97	0.48
3:N:804:LEU:HB3	3:N:831:GLY:HA2	1.96	0.48
3:N:926:LYS:HE3	3:N:929:ARG:NH1	2.29	0.48
3:N:1377:LYS:HE2	3:N:1378:TYR:CE2	2.48	0.48
7:Z:6:LYS:HB2	7:Z:85:LEU:HD12	1.95	0.48
7:Z:111:ASN:HD21	7:Z:113:LEU:HD12	1.77	0.48
1:A:38:ASN:HB3	1:A:39:PRO:HD3	1.96	0.48
2:C:111:ASP:O	2:C:112:GLU:CD	2.56	0.48
2:C:282:GLY:C	2:C:283:ILE:CG1	2.85	0.48
2:C:351:LEU:CD1	2:C:374:ASN:ND2	2.76	0.48
2:C:728:HIS:O	2:C:729:LEU:CD2	2.61	0.48
3:D:176:ASP:HB2	3:D:388:HIS:HB3	1.94	0.48
3:D:368:VAL:HB	3:D:377:VAL:HG21	1.95	0.48
3:D:793:THR:O	3:D:879:ARG:NH1	2.46	0.48
1:F:49:PRO:HA	1:F:148:VAL:HG22	1.94	0.48
1:F:94:LEU:HD11	1:F:119:ASP:OD2	2.13	0.48
1:F:127:LEU:HD12	1:F:128:HIS:N	2.29	0.48
1:F:161:ARG:HB2	1:F:161:ARG:NH1	2.28	0.48
2:H:226:VAL:HG13	2:H:227:PHE:H	1.79	0.48
2:H:627:ARG:O	2:H:638:ASP:CB	2.60	0.48
2:H:1047:HIS:O	2:H:1051:GLU:HB2	2.13	0.48
3:I:639:LEU:HD12	3:I:640:HIS:N	2.29	0.48
3:I:826:PRO:HD2	3:I:829:VAL:CG2	2.41	0.48
3:I:1036:ARG:O	3:I:1041:LEU:N	2.46	0.48
3:I:1320:GLU:CG	3:I:1339:LYS:NZ	2.59	0.48
3:I:1332:PRO:CB	3:I:1421:LEU:HD21	2.43	0.48
3:I:1352:ILE:HG22	3:I:1353:GLN:N	2.27	0.48
1:K:32:PHE:CE2	1:L:43:ILE:CD1	2.96	0.48
1:K:44:LEU:HA	1:K:48:ILE:HD11	1.96	0.48
2:M:18:LEU:HD13	2:M:590:ASP:OD2	2.13	0.48
2:M:188:LYS:CG	2:M:188:LYS:O	2.62	0.48
2:M:304:LEU:HG	2:M:305:PRO:N	2.27	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:603:VAL:HG21	2:M:643:VAL:HG11	1.95	0.48
3:N:434:ARG:HB3	3:N:447:VAL:HG23	1.96	0.48
3:N:880:ILE:HG22	3:N:881:LEU:H	1.79	0.48
3:N:908:LYS:NZ	7:Z:35:GLU:CD	2.72	0.48
3:N:1284:GLU:OE1	3:N:1284:GLU:HA	2.13	0.48
3:N:1318:TYR:CD1	3:N:1319:VAL:N	2.81	0.48
7:Y:10:ALA:O	7:Y:14:ARG:HG3	2.13	0.48
1:A:102:LYS:CD	1:A:139:ASN:ND2	2.73	0.48
1:A:208:LEU:HD23	1:A:212:ASN:OD1	2.13	0.48
1:B:74:ASP:O	1:B:75:VAL:C	2.55	0.48
1:B:102:LYS:HD2	1:B:139:ASN:ND2	2.28	0.48
2:C:64:LEU:CG	2:C:359:MET:HG3	2.44	0.48
2:C:170:PRO:CG	2:C:258:TYR:CE1	2.94	0.48
2:C:458:TYR:CD1	2:C:458:TYR:N	2.81	0.48
3:D:39:PRO:HG3	3:D:45:PHE:O	2.14	0.48
3:D:181:ASP:HA	3:D:205:TYR:CG	2.48	0.48
3:D:400:VAL:CG2	3:D:443:VAL:HG21	2.42	0.48
3:D:581:LEU:HD23	3:D:581:LEU:H	1.77	0.48
3:D:844:ALA:HB1	3:D:867:ARG:HH21	1.78	0.48
3:D:889:ALA:CB	3:D:930:LEU:HA	2.44	0.48
3:D:925:GLU:O	3:D:928:ALA:HB3	2.14	0.48
2:H:260:LEU:CD2	2:H:292:ARG:HH11	2.27	0.48
2:H:400:PRO:O	2:H:401:LEU:C	2.56	0.48
2:H:442:GLU:OE2	2:H:543:ASN:HB3	2.14	0.48
2:H:627:ARG:HG3	2:H:628:PHE:H	1.78	0.48
2:H:824:ARG:HG2	2:H:824:ARG:HH11	1.77	0.48
3:I:566:ILE:HG12	2:M:180:GLY:HA2	1.90	0.48
3:I:975:GLU:OE1	3:I:988:ARG:NH1	2.46	0.48
1:K:90:LEU:HD13	1:K:119:ASP:O	2.14	0.48
1:L:58:ILE:HB	1:L:61:VAL:CG2	2.42	0.48
2:M:52:PHE:CD2	2:M:68:PHE:CB	2.93	0.48
2:M:95:TYR:HD1	2:M:95:TYR:H	1.59	0.48
2:M:207:LEU:HD23	2:M:208:ALA:N	2.28	0.48
2:M:339:LEU:CD1	2:M:391:LEU:HD13	2.43	0.48
2:M:496:ILE:HG13	2:M:531:PHE:CB	2.44	0.48
2:M:838:LYS:CD	2:M:846:LYS:NZ	2.76	0.48
2:M:853:LEU:HB2	2:M:858:MET:CE	2.44	0.48
2:M:863:ASP:OD2	2:M:865:THR:HG22	2.13	0.48
2:M:1049:LEU:HD23	3:N:1472:ILE:HD13	1.95	0.48
3:N:888:GLU:O	3:N:889:ALA:C	2.57	0.48
3:N:897:TRP:CE3	3:N:902:LEU:HD21	2.49	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1068:LEU:O	3:N:1072:ILE:HG12	2.14	0.48
3:N:1084:THR:HG22	3:N:1087:ARG:HH22	1.78	0.48
1:A:56:VAL:O	1:A:164:ALA:HB1	2.14	0.48
1:B:42:ARG:HH11	1:B:42:ARG:CG	2.20	0.48
2:C:31:GLN:NE2	2:C:71:TYR:OH	2.46	0.48
2:C:524:VAL:CG1	2:C:525:SER:N	2.74	0.48
2:C:1045:ALA:HB1	2:C:1048:THR:HB	1.95	0.48
2:C:1082:PRO:C	2:C:1084:SER:H	2.22	0.48
3:D:116:LEU:CD2	3:D:118:LEU:HG	2.26	0.48
3:D:179:VAL:CG2	3:D:189:GLN:HE22	2.20	0.48
3:D:208:PRO:HG3	3:D:353:VAL:CG1	2.43	0.48
3:D:673:ALA:O	3:D:677:LEU:HG	2.14	0.48
3:D:875:THR:CG2	3:D:876:SER:N	2.77	0.48
3:D:894:LYS:O	3:D:898:GLU:HG3	2.13	0.48
3:D:1383:ASP:HB2	3:D:1416:ALA:HB3	1.96	0.48
3:D:1466:VAL:HG12	3:D:1467:ILE:N	2.29	0.48
1:F:22:GLU:HG2	1:F:198:ARG:HB3	1.94	0.48
2:H:267:TYR:O	2:H:268:ASP:C	2.57	0.48
2:H:408:ARG:HH21	2:H:455:LEU:HD12	1.77	0.48
3:I:52:PRO:HG2	3:I:80:VAL:HG13	1.95	0.48
3:I:142:LEU:HD23	3:I:146:PRO:CA	2.44	0.48
3:I:507:ASN:N	3:I:507:ASN:ND2	2.44	0.48
3:I:556:LYS:O	3:I:560:GLN:HG3	2.14	0.48
3:I:890:VAL:HG12	3:I:926:LYS:HE2	1.96	0.48
3:I:957:PRO:HG3	3:I:1007:VAL:HA	1.95	0.48
3:I:970:LYS:HZ3	7:Y:113:LEU:HA	1.78	0.48
3:I:1155:VAL:O	3:I:1182:GLU:OE2	2.31	0.48
3:I:1288:GLU:O	3:I:1307:LYS:CG	2.61	0.48
1:K:92:PRO:C	1:K:94:LEU:N	2.70	0.48
1:K:210:ALA:O	1:K:211:LEU:C	2.57	0.48
1:L:80:LEU:HG	3:N:844:ALA:HB2	1.95	0.48
2:M:73:LEU:CB	2:M:93:PRO:O	2.54	0.48
2:M:98:LEU:CD2	2:M:113:VAL:HG21	2.33	0.48
2:M:207:LEU:C	2:M:207:LEU:CD2	2.87	0.48
2:M:270:GLY:HA2	2:M:274:ARG:HH11	1.79	0.48
2:M:276:LYS:O	2:M:280:LYS:HB2	2.14	0.48
2:M:1038:TRP:O	2:M:1039:ALA:C	2.57	0.48
3:N:133:ILE:CG2	3:N:134:VAL:N	2.77	0.48
3:N:212:ARG:N	3:N:386:HIS:O	2.43	0.48
3:N:356:PRO:O	3:N:385:VAL:HG11	2.13	0.48
3:N:1380:GLU:O	3:N:1417:TRP:HB2	2.13	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:O:75:PHE:CD2	4:O:75:PHE:N	2.82	0.48
7:Y:115:THR:HB	7:Y:116:PRO:CD	2.43	0.48
7:Z:75:LEU:N	7:Z:75:LEU:HD12	2.28	0.48
1:B:181:VAL:O	1:B:181:VAL:HG12	2.12	0.48
2:C:86:LYS:HD3	2:C:813:VAL:HB	1.96	0.48
2:C:579:VAL:O	2:C:579:VAL:HG22	2.12	0.48
2:C:632:ASN:HB3	2:C:633:GLN:HE21	1.78	0.48
2:C:1004:LYS:CG	3:D:630:VAL:CG2	2.89	0.48
2:C:1096:ALA:HB2	3:D:101:HIS:CE1	2.49	0.48
3:D:680:GLN:HG2	3:D:680:GLN:O	2.14	0.48
1:F:131:THR:O	1:F:132:LEU:HD12	2.14	0.48
2:H:115:LEU:HD12	2:H:378:LEU:HB3	1.95	0.48
2:H:142:ARG:HE	2:H:325:ILE:HD12	1.77	0.48
2:H:269:LEU:C	2:H:269:LEU:HD23	2.38	0.48
2:H:460:ARG:HG3	2:H:460:ARG:NH1	2.27	0.48
2:H:539:VAL:C	2:H:540:PHE:HD2	2.22	0.48
2:H:794:PRO:HG3	2:H:1025:ALA:HA	1.94	0.48
2:H:994:ILE:HG22	2:H:995:MET:N	2.28	0.48
3:I:835:SER:N	3:I:838:ARG:CD	2.76	0.48
3:I:843:PHE:CE1	3:I:864:VAL:HG11	2.46	0.48
3:I:914:LEU:CD2	3:I:930:LEU:HD21	2.43	0.48
2:M:602:GLU:HG2	2:M:614:ARG:HH21	1.79	0.48
2:M:684:PHE:HD2	3:N:740:PHE:HE1	1.60	0.48
2:M:724:ARG:HG3	2:M:737:LEU:HD22	1.95	0.48
2:M:794:PRO:HG2	2:M:1025:ALA:CA	2.43	0.48
2:M:838:LYS:O	2:M:838:LYS:HG3	2.13	0.48
3:N:95:LEU:HD21	3:N:574:LEU:HD21	1.95	0.48
3:N:160:GLU:OE1	3:N:161:LEU:HD12	2.14	0.48
3:N:699:VAL:HG22	3:N:756:GLN:OE1	2.13	0.48
3:N:1036:ARG:O	3:N:1041:LEU:N	2.47	0.48
3:N:1087:ARG:HG3	3:N:1088:THR:N	2.29	0.48
3:N:1223:ILE:O	3:N:1226:ALA:N	2.47	0.48
4:O:9:LEU:HD22	4:O:19:LEU:HD11	1.95	0.48
1:B:80:LEU:HD23	3:D:867:ARG:HG3	1.96	0.48
1:B:128:HIS:HE1	1:B:131:THR:HG23	1.78	0.48
2:C:113:VAL:HG11	2:C:373:VAL:HG11	1.95	0.48
2:C:235:LEU:HD11	2:C:298:PHE:CZ	2.48	0.48
2:C:524:VAL:CG1	2:C:525:SER:H	2.26	0.48
2:C:948:GLU:CD	2:C:955:PRO:HA	2.39	0.48
3:D:782:SER:N	3:D:785:ILE:HD13	2.27	0.48
3:D:829:VAL:CG1	3:D:830:ALA:N	2.77	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:335:THR:O	2:H:336:VAL:C	2.57	0.48
2:H:351:LEU:HD12	2:H:351:LEU:C	2.39	0.48
2:H:389:SER:C	2:H:391:LEU:N	2.71	0.48
2:H:431:HIS:HD2	2:H:433:THR:OG1	1.95	0.48
3:I:401:TYR:OH	3:I:430:ASP:HB2	2.14	0.48
3:I:1256:LEU:N	3:I:1257:PRO:CD	2.77	0.48
2:M:80:GLN:N	2:M:90:TYR:HE2	2.12	0.48
2:M:292:ARG:HG3	2:M:294:GLU:H	1.79	0.48
2:M:350:ARG:O	2:M:353:ARG:HB3	2.13	0.48
2:M:548:PRO:HG2	2:M:842:ARG:CZ	2.44	0.48
2:M:949:LYS:HD3	3:N:796:ARG:HH22	1.74	0.48
2:M:994:ILE:HG22	2:M:995:MET:N	2.29	0.48
2:M:1046:ALA:HB2	3:N:1476:THR:HB	1.96	0.48
3:N:185:VAL:HG21	3:N:203:ALA:CB	2.42	0.48
3:N:433:GLY:CA	3:N:447:VAL:O	2.62	0.48
3:N:963:TYR:CE2	3:N:1002:LYS:HB3	2.48	0.48
3:N:1108:ARG:HG3	3:N:1108:ARG:NH1	2.29	0.48
3:N:1481:VAL:C	3:N:1483:PHE:N	2.72	0.48
1:A:156:HIS:CG	1:A:158:ILE:HD11	2.49	0.47
2:C:216:GLU:O	2:C:219:GLN:CD	2.57	0.47
2:C:1061:GLU:HG3	3:D:84:ILE:CD1	2.44	0.47
3:D:700:VAL:HG12	3:D:749:VAL:HG13	1.96	0.47
3:D:770:LEU:HD23	3:D:777:PRO:HA	1.96	0.47
3:D:1087:ARG:NH2	7:X:43:TYR:OH	2.47	0.47
3:D:1114:THR:CG2	3:D:1114:THR:O	2.62	0.47
1:F:64:GLU:HA	1:F:75:VAL:HG11	1.96	0.47
1:F:106:PRO:HG3	1:F:134:GLU:OE1	2.13	0.47
1:F:176:ARG:HB2	1:F:200:TRP:HE3	1.79	0.47
1:G:202:ASP:OD1	1:G:202:ASP:C	2.56	0.47
2:H:111:ASP:C	2:H:112:GLU:HG2	2.39	0.47
2:H:582:GLY:C	2:H:583:LEU:HD12	2.39	0.47
2:H:600:ASP:OD1	2:H:650:ARG:HA	2.14	0.47
2:H:724:ARG:HG3	2:H:740:GLU:CA	2.36	0.47
2:H:843:HIS:CD2	2:H:884:GLN:CA	2.97	0.47
2:H:1007:ALA:HB2	3:I:648:MET:HE3	1.96	0.47
2:H:1041:GLU:CB	3:I:1223:ILE:CD1	2.92	0.47
3:I:578:VAL:O	3:I:582:LEU:HG	2.14	0.47
3:I:786:ILE:O	3:I:787:LEU:C	2.56	0.47
3:I:877:PRO:O	3:I:880:ILE:HG22	2.14	0.47
2:M:181:VAL:CG1	2:M:182:VAL:N	2.77	0.47
2:M:182:VAL:C	2:M:193:LEU:CD1	2.87	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:338:GLU:C	2:M:341:THR:HG22	2.39	0.47
2:M:630:ARG:HH11	2:M:630:ARG:CG	2.26	0.47
2:M:939:ARG:HD3	2:M:982:PRO:HD3	1.96	0.47
2:M:1052:MET:SD	3:N:623:VAL:HG11	2.54	0.47
3:N:171:LEU:HD21	3:N:192:ALA:CB	2.44	0.47
3:N:209:ARG:HA	3:N:347:VAL:HB	1.96	0.47
3:N:761:ILE:HD12	4:O:20:THR:HA	1.96	0.47
3:N:1024:ALA:HA	3:N:1029:ARG:O	2.14	0.47
3:N:1119:SER:O	3:N:1121:PRO:HD3	2.14	0.47
3:N:1221:VAL:HG12	3:N:1370:ILE:HD13	1.94	0.47
7:X:133:ARG:O	7:X:134:VAL:C	2.57	0.47
1:A:64:GLU:HA	1:A:75:VAL:HG11	1.96	0.47
1:B:153:ALA:HB2	1:B:168:ASP:OD1	2.13	0.47
2:C:2:GLU:C	2:C:3:ILE:HD12	2.40	0.47
2:C:250:ARG:HA	2:C:250:ARG:HD3	1.57	0.47
2:C:447:ALA:O	2:C:448:ASN:CB	2.60	0.47
2:C:948:GLU:HG2	2:C:955:PRO:HG3	1.96	0.47
2:C:1075:ASP:OD1	4:E:28:GLN:HG2	2.13	0.47
2:C:1095:LEU:HD11	2:C:1097:LEU:HD22	1.93	0.47
3:D:794:GLN:OE1	3:D:794:GLN:HA	2.14	0.47
3:D:963:TYR:CE2	3:D:1002:LYS:HD3	2.50	0.47
3:D:1066:THR:CG2	3:D:1069:GLU:H	2.26	0.47
3:D:1277:ILE:HD12	3:D:1277:ILE:N	2.29	0.47
3:D:1452:ILE:H	3:D:1452:ILE:HD12	1.74	0.47
4:E:69:LEU:HD23	4:E:69:LEU:C	2.39	0.47
2:H:69:LEU:HB3	2:H:70:GLU:OE2	2.14	0.47
2:H:142:ARG:NH1	2:H:147:TYR:CD1	2.82	0.47
2:H:198:ARG:HD3	2:H:228:ALA:HA	1.95	0.47
2:H:452:ILE:HD12	2:H:452:ILE:N	2.29	0.47
2:H:557:ARG:CD	2:H:879:ARG:HB3	2.39	0.47
2:H:893:ALA:HB2	2:H:918:LEU:HD12	1.94	0.47
2:H:972:VAL:HG22	2:H:989:VAL:HG22	1.96	0.47
3:I:104:PHE:CD2	3:I:104:PHE:N	2.82	0.47
3:I:198:ARG:HG3	3:I:198:ARG:NH1	2.27	0.47
3:I:474:GLU:O	3:I:478:LEU:HG	2.14	0.47
3:I:516:ALA:O	3:I:518:PRO:HD3	2.14	0.47
3:I:811:GLU:O	3:I:815:ALA:CB	2.62	0.47
3:I:907:GLU:OE1	3:I:909:ASN:HB2	2.14	0.47
3:I:1065:LEU:HD21	3:I:1070:TYR:HA	1.96	0.47
3:I:1139:ASP:O	3:I:1142:ALA:HB3	2.14	0.47
3:I:1274:ILE:HD12	3:I:1274:ILE:O	2.14	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:1457:ASP:C	3:I:1457:ASP:OD1	2.57	0.47
3:I:1460:ILE:HD13	3:I:1460:ILE:H	1.79	0.47
3:I:1481:VAL:C	3:I:1483:PHE:N	2.69	0.47
1:K:179:PHE:CD1	1:K:179:PHE:O	2.67	0.47
1:K:206:THR:OG1	1:K:207:PRO:HD2	2.14	0.47
1:L:96:THR:HB	1:L:145:ASP:OD2	2.15	0.47
2:M:64:LEU:CB	2:M:359:MET:HE3	2.44	0.47
2:M:218:VAL:HG22	2:M:311:PHE:CE1	2.47	0.47
2:M:239:PHE:CZ	2:M:252:LYS:HB2	2.49	0.47
2:M:1042:ALA:HB2	3:N:1227:GLN:HE22	1.78	0.47
2:M:1097:LEU:HD11	3:N:1451:ALA:CA	2.42	0.47
3:N:134:VAL:O	3:N:454:ALA:CB	2.60	0.47
3:N:879:ARG:O	3:N:882:PHE:HB3	2.14	0.47
3:N:976:GLN:O	3:N:980:MET:HG2	2.14	0.47
3:N:1025:GLN:HE21	3:N:1025:GLN:CA	2.26	0.47
3:N:1256:LEU:O	3:N:1257:PRO:C	2.56	0.47
3:N:1356:TYR:HB3	3:N:1361:VAL:HB	1.95	0.47
7:Z:85:LEU:HD22	7:Z:85:LEU:HA	1.72	0.47
1:A:139:ASN:ND2	1:F:59:GLU:OE1	2.46	0.47
1:B:16:GLN:HA	1:B:16:GLN:HE21	1.79	0.47
2:C:309:TYR:CE2	2:C:321:GLU:CB	2.97	0.47
2:C:352:ALA:CA	2:C:355:VAL:HG12	2.41	0.47
2:C:1019:GLN:CD	3:D:621:LYS:CB	2.87	0.47
2:C:1044:GLY:HA2	3:D:1475:GLY:HA3	1.96	0.47
3:D:30:GLU:HA	3:D:30:GLU:OE1	2.14	0.47
3:D:127:LEU:O	3:D:457:GLY:HA2	2.14	0.47
3:D:407:VAL:HA	3:D:422:ALA:CB	2.44	0.47
3:D:470:LEU:N	3:D:470:LEU:HD23	2.29	0.47
3:D:475:LYS:HA	3:D:478:LEU:CG	2.42	0.47
3:D:550:ARG:NH1	3:D:573:MET:HB3	2.30	0.47
3:D:639:LEU:CD1	3:D:640:HIS:N	2.78	0.47
3:D:669:ASN:HD21	3:D:671:LYS:HB2	1.79	0.47
3:D:880:ILE:O	3:D:881:LEU:C	2.56	0.47
3:D:1256:LEU:O	3:D:1259:VAL:N	2.46	0.47
4:E:33:HIS:CD2	4:E:89:MET:HG2	2.50	0.47
4:E:85:LEU:HD23	4:E:85:LEU:C	2.38	0.47
2:H:18:LEU:HD12	2:H:18:LEU:H	1.78	0.47
2:H:45:GLN:O	2:H:48:PHE:CB	2.62	0.47
2:H:327:HIS:C	2:H:329:GLY:N	2.72	0.47
2:H:358:ARG:HH22	2:H:374:ASN:CG	2.21	0.47
2:H:415:PRO:HB2	2:H:418:LEU:CD1	2.44	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:500:ASN:ND2	2:H:500:ASN:H	2.11	0.47
2:H:535:SER:OG	2:H:536:PRO:HD2	2.15	0.47
2:H:536:PRO:O	2:H:539:VAL:HG23	2.14	0.47
2:H:674:VAL:HG12	2:H:990:GLY:O	2.15	0.47
2:H:971:LYS:HA	2:H:988:VAL:HA	1.96	0.47
2:H:1092:LEU:O	2:H:1095:LEU:O	2.32	0.47
3:I:813:LEU:HD12	3:I:813:LEU:C	2.37	0.47
3:I:927:THR:O	3:I:928:ALA:C	2.58	0.47
3:I:1114:THR:CG2	3:I:1195:GLN:HB3	2.44	0.47
3:I:1305:LEU:HD12	3:I:1311:LEU:CD2	2.36	0.47
3:I:1389:LEU:CD1	3:I:1390:LEU:HD23	2.43	0.47
3:I:1488:ASP:N	3:I:1488:ASP:OD1	2.46	0.47
1:K:20:TYR:O	1:K:207:PRO:HG2	2.15	0.47
1:K:25:LEU:CD2	1:K:28:LEU:HD11	2.44	0.47
2:M:39:ARG:O	2:M:40:GLU:C	2.57	0.47
2:M:137:VAL:HG23	2:M:391:LEU:HG	1.96	0.47
2:M:216:GLU:HG3	2:M:217:LEU:N	2.30	0.47
2:M:332:ARG:HD2	2:M:464:LEU:HG	1.97	0.47
2:M:332:ARG:HG3	2:M:465:GLY:HA3	1.95	0.47
2:M:408:ARG:NH2	2:M:455:LEU:CD1	2.75	0.47
2:M:961:GLU:O	2:M:964:LYS:HB3	2.14	0.47
2:M:1088:LEU:HD21	3:N:614:PHE:CE1	2.49	0.47
3:N:23:TYR:CE1	3:N:89:ARG:HG2	2.50	0.47
3:N:361:VAL:HG13	3:N:379:ALA:CB	2.42	0.47
3:N:415:VAL:CG1	3:N:416:ALA:N	2.77	0.47
3:N:525:ARG:O	3:N:525:ARG:CG	2.62	0.47
3:N:639:LEU:CD2	3:N:766:ALA:HA	2.43	0.47
3:N:970:LYS:O	3:N:973:GLN:CG	2.62	0.47
3:N:1106:VAL:HG11	3:N:1474:ALA:HB2	1.97	0.47
1:A:92:PRO:C	1:A:94:LEU:H	2.21	0.47
1:B:56:VAL:CG1	1:B:57:TYR:H	2.27	0.47
1:B:153:ALA:HB2	1:B:168:ASP:N	2.29	0.47
2:C:36:PRO:CG	2:C:70:GLU:HG2	2.44	0.47
2:C:442:GLU:HG3	2:C:442:GLU:O	2.13	0.47
2:C:492:ASP:HB3	2:C:518:LYS:HE2	1.96	0.47
3:D:209:ARG:HB2	3:D:389:GLU:O	2.14	0.47
3:D:657:LEU:O	3:D:661:MET:HG2	2.15	0.47
3:D:758:GLU:HA	4:E:20:THR:CG2	2.43	0.47
3:D:1086:LEU:H	3:D:1086:LEU:CD1	2.27	0.47
3:D:1108:ARG:HG3	3:D:1108:ARG:NH1	2.27	0.47
3:D:1395:LEU:C	3:D:1395:LEU:CD2	2.86	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:33:HIS:HB2	4:E:37:ASN:OD1	2.14	0.47
1:F:102:LYS:HD2	1:F:139:ASN:ND2	2.30	0.47
1:G:76:VAL:HB	3:I:872:ARG:NH2	2.28	0.47
1:G:106:PRO:CG	1:G:134:GLU:OE1	2.63	0.47
1:G:177:VAL:HG12	1:G:199:ILE:HG23	1.96	0.47
1:G:206:THR:HG22	1:G:209:GLU:HG3	1.96	0.47
2:H:67:ASP:OD1	2:H:68:PHE:O	2.32	0.47
2:H:250:ARG:CZ	2:H:250:ARG:HA	2.44	0.47
2:H:507:ARG:HG3	2:H:508:ILE:H	1.79	0.47
2:H:1012:PRO:HD3	2:H:1026:GLN:CB	2.44	0.47
3:I:30:GLU:OE1	3:I:30:GLU:HA	2.15	0.47
3:I:496:LEU:HD12	3:I:496:LEU:O	2.14	0.47
3:I:783:ARG:NH1	7:Y:41:ASP:HB2	2.30	0.47
3:I:996:TRP:O	3:I:997:THR:C	2.56	0.47
3:I:1084:THR:O	3:I:1088:THR:CB	2.59	0.47
3:I:1096:ARG:HG2	3:I:1096:ARG:HH11	1.79	0.47
4:J:41:GLU:N	4:J:42:PRO:HD3	2.29	0.47
1:K:39:PRO:CG	1:L:39:PRO:CG	2.90	0.47
2:M:151:ASP:HB3	2:M:154:ARG:O	2.14	0.47
2:M:267:TYR:CG	2:M:272:ALA:CB	2.97	0.47
2:M:335:THR:O	2:M:336:VAL:C	2.57	0.47
2:M:435:TYR:CE1	2:M:539:VAL:HG22	2.47	0.47
2:M:722:ILE:HG12	2:M:757:GLY:O	2.14	0.47
2:M:983:ILE:HG23	3:N:944:THR:HA	1.95	0.47
2:M:1010:THR:HG22	2:M:1011:GLY:N	2.29	0.47
3:N:130:SER:OG	3:N:131:LYS:N	2.47	0.47
3:N:353:VAL:HG12	3:N:368:VAL:HG21	1.97	0.47
7:X:139:SER:HB3	7:X:148:GLU:HG3	1.97	0.47
1:B:222:LEU:O	1:B:225:PHE:HD1	1.98	0.47
2:C:113:VAL:HB	2:C:115:LEU:CD2	2.44	0.47
2:C:383:ARG:O	2:C:387:SER:OG	2.33	0.47
2:C:395:LYS:HD3	2:C:397:GLU:OE2	2.14	0.47
2:C:442:GLU:OE2	2:C:543:ASN:HB3	2.15	0.47
2:C:630:ARG:HG3	2:C:630:ARG:HH11	1.77	0.47
2:C:689:VAL:HB	2:C:870:ILE:CG1	2.35	0.47
2:C:953:VAL:O	2:C:955:PRO:HD3	2.14	0.47
3:D:368:VAL:HB	3:D:377:VAL:HB	1.95	0.47
3:D:618:LEU:HG	3:D:619:LEU:HD23	1.96	0.47
3:D:635:PRO:O	3:D:935:LYS:HE3	2.15	0.47
3:D:758:GLU:HA	4:E:20:THR:HG21	1.96	0.47
3:D:834:THR:CA	3:D:838:ARG:HD3	2.44	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:850:LEU:HA	3:D:853:VAL:CG2	2.44	0.47
3:D:996:TRP:O	3:D:997:THR:C	2.57	0.47
3:D:1103:HIS:CD2	3:D:1463:LYS:HE3	2.49	0.47
3:D:1207:TYR:CZ	3:D:1213:ARG:HA	2.50	0.47
2:H:577:PRO:O	2:H:580:MET:HG2	2.14	0.47
2:H:759:THR:HB	2:H:785:VAL:CG2	2.45	0.47
2:H:997:LEU:O	2:H:999:HIS:N	2.42	0.47
3:I:166:GLN:O	2:M:209:ARG:O	2.32	0.47
3:I:649:ALA:O	3:I:650:LEU:C	2.58	0.47
3:I:765:SER:OG	3:I:766:ALA:N	2.45	0.47
3:I:804:LEU:HD23	3:I:831:GLY:HA3	1.95	0.47
3:I:1014:ASN:C	3:I:1016:PRO:HD3	2.40	0.47
3:I:1066:THR:HG23	3:I:1069:GLU:H	1.79	0.47
3:I:1095:THR:O	3:I:1099:VAL:CG2	2.59	0.47
3:I:1205:TYR:CE1	3:I:1221:VAL:CG1	2.96	0.47
3:I:1280:VAL:O	3:I:1294:VAL:HA	2.15	0.47
1:L:199:ILE:HB	1:L:207:PRO:HB3	1.96	0.47
2:M:109:LYS:O	2:M:111:ASP:OD1	2.33	0.47
2:M:177:GLU:CD	2:M:179:ASN:HB2	2.40	0.47
2:M:400:PRO:O	2:M:401:LEU:C	2.57	0.47
2:M:739:GLU:H	2:M:739:GLU:HG2	1.51	0.47
2:M:1070:ILE:HG21	3:N:655:PRO:HB2	1.95	0.47
3:N:131:LYS:O	3:N:131:LYS:HG2	2.15	0.47
3:N:206:ARG:HG2	3:N:392:SER:N	2.23	0.47
3:N:403:PHE:HE2	3:N:444:VAL:HG23	1.79	0.47
3:N:857:ILE:HG22	3:N:858:VAL:HG13	1.97	0.47
3:N:996:TRP:O	3:N:997:THR:C	2.56	0.47
3:N:1106:VAL:CG1	3:N:1107:VAL:N	2.70	0.47
3:N:1313:VAL:HG21	3:N:1319:VAL:HG11	1.96	0.47
7:Y:57:ARG:HG2	7:Y:57:ARG:HH21	1.78	0.47
7:Z:7:LEU:HA	7:Z:109:GLU:OE2	2.14	0.47
1:B:44:LEU:CA	1:B:48:ILE:HD13	2.44	0.47
2:C:205:GLU:CB	2:C:209:ARG:NH1	2.78	0.47
2:C:338:GLU:CA	2:C:341:THR:HG22	2.44	0.47
2:C:443:THR:OG1	2:C:450:GLY:N	2.39	0.47
2:C:897:LEU:HD21	2:C:921:ALA:N	2.30	0.47
2:C:1033:GLY:O	2:C:1037:VAL:HG23	2.14	0.47
2:C:1085:PHE:CD1	2:C:1085:PHE:C	2.93	0.47
3:D:639:LEU:CD1	3:D:639:LEU:C	2.87	0.47
3:D:765:SER:OG	3:D:766:ALA:N	2.45	0.47
3:D:1071:PHE:C	3:D:1071:PHE:CD1	2.93	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1211:MET:SD	3:D:1213:ARG:HG2	2.55	0.47
3:D:1380:GLU:HA	3:D:1391:GLU:O	2.14	0.47
1:F:20:TYR:O	1:F:207:PRO:HG2	2.15	0.47
2:H:557:ARG:HH21	2:H:879:ARG:HE	1.62	0.47
2:H:880:MET:CE	7:Y:46:SER:OG	2.63	0.47
2:H:983:ILE:O	2:H:984:GLU:C	2.57	0.47
3:I:26:VAL:HB	3:I:93:ILE:CD1	2.44	0.47
3:I:99:ALA:HA	3:I:575:GLN:HE22	1.79	0.47
3:I:807:ALA:CB	3:I:833:GLU:OE1	2.62	0.47
1:L:177:VAL:HG23	1:L:177:VAL:O	2.13	0.47
2:M:26:TYR:HB2	2:M:121:MET:SD	2.54	0.47
2:M:64:LEU:HB2	2:M:359:MET:HG3	1.97	0.47
2:M:184:MET:SD	2:M:303:PHE:HE2	2.36	0.47
2:M:572:ILE:HG13	2:M:573:ARG:H	1.79	0.47
2:M:1092:LEU:HD21	3:N:1447:LEU:HD21	1.96	0.47
2:M:1098:ASP:N	3:N:11:ALA:O	2.22	0.47
3:N:54:LYS:HG3	3:N:55:ASP:N	2.30	0.47
3:N:102:ILE:CG2	3:N:103:TRP:N	2.77	0.47
3:N:145:VAL:HG22	3:N:146:PRO:CD	2.43	0.47
3:N:405:ASP:HB3	3:N:406:ASP:H	1.58	0.47
3:N:658:LEU:O	3:N:661:MET:HB2	2.15	0.47
3:N:686:GLU:H	3:N:686:GLU:HG3	1.43	0.47
3:N:811:GLU:O	3:N:815:ALA:CB	2.63	0.47
3:N:907:GLU:CG	3:N:908:LYS:N	2.78	0.47
3:N:1000:THR:CG2	3:N:1001:GLU:N	2.78	0.47
3:N:1037:GLN:HG2	3:N:1042:ARG:HB3	1.96	0.47
3:N:1108:ARG:HA	3:N:1217:ILE:HG23	1.96	0.47
3:N:1119:SER:HA	3:N:1186:VAL:O	2.14	0.47
3:N:1197:ARG:HG3	3:N:1198:TYR:H	1.79	0.47
7:Y:26:LEU:HD12	7:Y:55:LYS:HG3	1.97	0.47
2:C:54:ILE:HD11	2:C:355:VAL:CG1	2.45	0.47
2:C:165:LEU:O	2:C:265:ARG:NE	2.47	0.47
2:C:338:GLU:HA	2:C:341:THR:CG2	2.44	0.47
2:C:672:VAL:CG2	2:C:869:VAL:CG1	2.93	0.47
2:C:876:VAL:N	2:C:877:PRO:CD	2.76	0.47
2:C:882:LEU:O	2:C:883:GLY:C	2.56	0.47
2:C:1081:VAL:CG1	2:C:1085:PHE:HB3	2.39	0.47
3:D:28:LYS:HG3	3:D:30:GLU:HG2	1.96	0.47
3:D:413:ASP:O	3:D:435:VAL:HG23	2.15	0.47
3:D:520:LEU:HG	3:D:521:PRO:N	2.28	0.47
3:D:651:GLU:OE1	3:D:651:GLU:HA	2.14	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:706:PRO:HG3	5:P:19:DC:O2	2.15	0.47
3:D:729:HIS:CE1	3:D:731:LEU:H	2.33	0.47
3:D:736:PHE:O	3:D:737:ASN:C	2.58	0.47
3:D:835:SER:O	3:D:836:VAL:C	2.56	0.47
3:D:947:ILE:O	3:D:948:THR:HG22	2.14	0.47
3:D:1195:GLN:HG3	3:D:1196:THR:N	2.30	0.47
3:D:1417:TRP:CD1	3:D:1417:TRP:C	2.93	0.47
1:F:92:PRO:C	1:F:94:LEU:N	2.72	0.47
1:F:167:VAL:HG12	1:F:168:ASP:N	2.30	0.47
1:F:168:ASP:CG	2:H:832:LYS:HZ1	2.23	0.47
1:G:185:ARG:NH2	3:I:692:GLU:HB3	2.27	0.47
1:G:188:GLN:H	1:G:188:GLN:NE2	2.03	0.47
2:H:105:THR:O	2:H:105:THR:HG23	2.14	0.47
2:H:148:PHE:CE1	2:H:309:TYR:HD2	2.32	0.47
2:H:165:LEU:HD12	2:H:167:LYS:N	2.30	0.47
2:H:207:LEU:HD22	2:H:221:LEU:HD13	1.97	0.47
2:H:250:ARG:CZ	2:H:250:ARG:CA	2.92	0.47
2:H:254:VAL:CA	2:H:257:VAL:HG23	2.45	0.47
2:H:332:ARG:CG	2:H:465:GLY:HA3	2.33	0.47
2:H:403:SER:OG	2:H:404:LEU:N	2.46	0.47
2:H:473:ARG:HG3	2:H:474:VAL:N	2.29	0.47
2:H:582:GLY:N	2:H:584:GLU:OE2	2.38	0.47
2:H:587:VAL:CG1	2:H:666:LEU:HD22	2.44	0.47
2:H:588:VAL:CG2	2:H:589:ARG:N	2.77	0.47
2:H:903:SER:OG	2:H:908:GLY:CA	2.58	0.47
2:H:1004:LYS:CG	3:I:630:VAL:HG23	2.43	0.47
2:H:1086:ARG:NH2	2:H:1111:ILE:O	2.47	0.47
3:I:53:ILE:HG13	3:I:86:ARG:HH12	1.78	0.47
3:I:111:LYS:CE	3:I:1448:THR:HG22	2.38	0.47
3:I:765:SER:C	3:I:767:HIS:H	2.22	0.47
3:I:785:ILE:O	3:I:786:ILE:C	2.57	0.47
3:I:993:LEU:C	3:I:997:THR:HG1	2.18	0.47
3:I:999:THR:O	3:I:1002:LYS:HB2	2.14	0.47
3:I:1094:LEU:O	3:I:1098:LEU:N	2.34	0.47
4:J:30:LEU:O	4:J:35:PHE:HA	2.14	0.47
4:J:48:MET:HB2	4:J:54:LEU:HB2	1.97	0.47
4:J:54:LEU:HG	4:J:58:PRO:CB	2.42	0.47
1:K:50:GLY:O	1:K:146:ARG:HA	2.15	0.47
1:L:86:VAL:HG12	1:L:124:ASN:CG	2.39	0.47
2:M:21:ILE:HD12	2:M:461:VAL:HG23	1.96	0.47
2:M:195:LEU:HD23	2:M:241:LEU:HD12	1.97	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:216:GLU:HB2	2:M:219:GLN:HE22	1.80	0.47
2:M:239:PHE:HZ	2:M:252:LYS:HB2	1.80	0.47
2:M:260:LEU:HA	2:M:291:ALA:CB	2.44	0.47
2:M:408:ARG:NH2	2:M:455:LEU:HD11	2.29	0.47
2:M:479:VAL:HG23	2:M:479:VAL:O	2.15	0.47
2:M:679:PHE:C	3:N:943:THR:HG22	2.40	0.47
2:M:701:THR:HA	2:M:831:ARG:O	2.14	0.47
2:M:886:LEU:O	2:M:887:GLU:C	2.58	0.47
2:M:925:TYR:CD2	2:M:925:TYR:C	2.92	0.47
2:M:1008:ARG:HH12	2:M:1010:THR:C	2.22	0.47
3:N:54:LYS:HG3	3:N:55:ASP:H	1.80	0.47
3:N:355:VAL:HA	3:N:356:PRO:HD3	1.55	0.47
3:N:370:ALA:N	3:N:376:GLU:OE2	2.30	0.47
3:N:700:VAL:HG13	3:N:718:PRO:CG	2.44	0.47
3:N:701:LEU:CD1	3:N:750:PRO:HD3	2.44	0.47
3:N:786:ILE:CD1	3:N:911:LEU:HD22	2.45	0.47
3:N:843:PHE:CD2	3:N:849:ALA:HA	2.50	0.47
3:N:847:ASP:HA	3:N:850:LEU:HD13	1.97	0.47
3:N:911:LEU:O	3:N:915:VAL:HG23	2.14	0.47
3:N:1055:VAL:HG12	3:N:1056:PRO:N	2.29	0.47
3:N:1305:LEU:N	3:N:1305:LEU:HD23	2.30	0.47
7:Y:5:VAL:HG12	7:Y:72:ALA:HB1	1.96	0.47
1:A:177:VAL:CG2	1:A:199:ILE:HG23	2.38	0.47
2:C:56:GLU:HB3	2:C:359:MET:SD	2.55	0.47
2:C:76:PRO:O	2:C:77:PRO:C	2.57	0.47
2:C:221:LEU:CD1	2:C:222:MET:N	2.75	0.47
2:C:224:GLU:OE1	2:C:226:VAL:HG13	2.15	0.47
2:C:242:LEU:HD11	2:C:254:VAL:HG11	1.96	0.47
2:C:266:ARG:HA	2:C:288:ARG:HD3	1.96	0.47
2:C:606:VAL:CG2	2:C:645:VAL:HG22	2.45	0.47
2:C:708:TYR:CE2	2:C:793:PRO:CD	2.98	0.47
3:D:52:PRO:HB2	3:D:80:VAL:CG1	2.27	0.47
3:D:590:PRO:O	3:D:600:LEU:HD12	2.14	0.47
3:D:988:ARG:O	3:D:992:ILE:HG13	2.14	0.47
3:D:1101:VAL:CG2	3:D:1424:VAL:HG23	2.45	0.47
3:D:1286:THR:O	3:D:1287:GLU:CG	2.61	0.47
3:D:1434:TRP:CE3	3:D:1457:ASP:HB2	2.49	0.47
1:F:57:TYR:O	1:F:140:MET:CB	2.63	0.47
2:H:319:GLY:O	2:H:321:GLU:CD	2.58	0.47
2:H:334:ARG:CA	2:H:338:GLU:OE2	2.59	0.47
2:H:554:ASP:HB2	3:I:1061:PHE:CE2	2.49	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:690:ILE:CG2	2:H:852:ILE:HG12	2.44	0.47
2:H:848:VAL:HG12	2:H:849:VAL:N	2.30	0.47
2:H:1008:ARG:NH1	2:H:1010:THR:HA	2.29	0.47
3:I:841:TYR:HB3	3:I:843:PHE:HE1	1.80	0.47
3:I:1383:ASP:HB2	3:I:1416:ALA:HB3	1.96	0.47
3:I:1476:THR:HG23	4:J:21:VAL:HG22	1.97	0.47
1:L:76:VAL:O	1:L:80:LEU:HB2	2.14	0.47
2:M:197:LEU:CD2	2:M:202:TYR:HD2	2.28	0.47
2:M:302:VAL:HG13	2:M:303:PHE:H	1.80	0.47
2:M:434:HIS:HB3	2:M:438:ILE:HB	1.97	0.47
2:M:875:GLY:CA	2:M:879:ARG:NH1	2.78	0.47
2:M:881:ASN:O	2:M:884:GLN:HG3	2.14	0.47
3:N:167:GLU:HB3	3:N:169:TYR:CE1	2.49	0.47
3:N:633:VAL:O	3:N:635:PRO:HD3	2.14	0.47
3:N:1382:THR:HG23	3:N:1418:LYS:HE3	1.97	0.47
7:Y:102:VAL:HG21	7:Y:119:ILE:HD11	1.96	0.47
1:B:36:LEU:C	1:B:39:PRO:HD2	2.40	0.47
2:C:322:VAL:HG23	2:C:322:VAL:O	2.14	0.47
2:C:630:ARG:HD2	2:C:634:GLY:HA2	1.97	0.47
2:C:729:LEU:HD23	2:C:729:LEU:C	2.40	0.47
2:C:759:THR:HB	2:C:785:VAL:HG21	1.97	0.47
3:D:554:LEU:HD13	3:D:570:GLU:HB3	1.96	0.47
3:D:660:LYS:HA	3:D:660:LYS:NZ	2.28	0.47
3:D:706:PRO:CG	6:Q:10:G:N2	2.77	0.47
3:D:1080:GLY:HA3	7:X:49:GLU:HG3	1.94	0.47
3:D:1122:LEU:HD13	3:D:1184:GLN:C	2.39	0.47
2:H:573:ARG:HB2	2:H:670:GLN:NE2	2.30	0.47
2:H:688:ILE:HD12	2:H:688:ILE:N	2.29	0.47
3:I:165:LYS:HE2	3:I:167:GLU:OE1	2.15	0.47
3:I:613:ARG:NH1	3:I:616:GLN:HG2	2.30	0.47
3:I:642:CYS:HB3	3:I:716:PHE:HB3	1.92	0.47
3:I:882:PHE:O	3:I:886:VAL:HG23	2.15	0.47
3:I:1177:ALA:HB1	3:I:1183:ILE:HD11	1.95	0.47
2:M:101:ILE:CD1	2:M:107:LEU:HD22	2.45	0.47
2:M:135:VAL:C	2:M:136:ILE:HD12	2.40	0.47
2:M:300:ASP:O	2:M:302:VAL:N	2.47	0.47
2:M:589:ARG:HA	2:M:596:TYR:OH	2.15	0.47
2:M:689:VAL:CB	2:M:870:ILE:HG12	2.21	0.47
2:M:775:ARG:O	2:M:779:GLY:C	2.58	0.47
2:M:875:GLY:HA2	2:M:879:ARG:HH12	1.80	0.47
3:N:407:VAL:HA	3:N:422:ALA:CB	2.45	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:643:GLY:N	3:N:727:GLN:O	2.48	0.47
3:N:1093:TYR:C	3:N:1096:ARG:HB3	2.38	0.47
3:N:1096:ARG:HG3	3:N:1097:LYS:N	2.30	0.47
7:Y:96:SER:OG	7:Y:98:GLU:HB2	2.14	0.47
7:Y:146:ARG:HE	7:Y:146:ARG:HB3	1.45	0.47
2:C:101:ILE:HG22	2:C:102:HIS:N	2.31	0.47
2:C:207:LEU:HD23	2:C:211:LEU:HD23	1.96	0.47
2:C:211:LEU:HD12	2:C:211:LEU:O	2.15	0.47
2:C:274:ARG:HD2	2:C:285:LEU:HD21	1.96	0.47
2:C:512:ARG:HD3	2:C:523:ILE:HG13	1.96	0.47
3:D:102:ILE:O	3:D:102:ILE:HD13	2.14	0.47
3:D:393:ILE:HD12	3:D:393:ILE:N	2.30	0.47
3:D:680:GLN:O	3:D:683:ILE:HG13	2.15	0.47
3:D:1197:ARG:HG3	3:D:1198:TYR:H	1.78	0.47
3:D:1330:ILE:HG22	3:D:1331:ASP:N	2.30	0.47
4:E:51:LEU:HD12	4:E:53:GLY:H	1.80	0.47
1:G:91:ASN:N	1:G:91:ASN:ND2	2.63	0.47
2:H:872:ASN:OD1	2:H:873:PRO:HD2	2.15	0.47
3:I:508:ARG:HB3	3:I:509:PRO:HD2	1.96	0.47
3:I:630:VAL:CG1	3:I:631:ILE:N	2.78	0.47
3:I:652:LEU:HD12	3:I:652:LEU:HA	1.74	0.47
3:I:888:GLU:O	3:I:889:ALA:C	2.58	0.47
3:I:1110:ALA:O	3:I:1112:CYS:N	2.48	0.47
3:I:1384:PRO:HB3	3:I:1387:SER:O	2.15	0.47
3:I:1487:VAL:CG1	3:I:1488:ASP:N	2.78	0.47
1:L:7:LYS:O	1:L:7:LYS:HE3	2.15	0.47
2:M:101:ILE:HG22	2:M:102:HIS:N	2.30	0.47
2:M:206:THR:HG23	2:M:207:LEU:H	1.80	0.47
2:M:207:LEU:HD21	2:M:221:LEU:CD2	2.45	0.47
2:M:235:LEU:HD11	2:M:298:PHE:CE1	2.50	0.47
2:M:263:ASP:HB2	2:M:264:PRO:HD3	1.96	0.47
2:M:1024:LYS:HA	2:M:1024:LYS:HD2	1.53	0.47
3:N:38:LYS:HE2	3:N:38:LYS:HB3	1.57	0.47
3:N:978:TYR:N	3:N:983:LEU:HD21	2.30	0.47
3:N:1105:ILE:CD1	3:N:1105:ILE:H	2.28	0.47
3:N:1353:GLN:O	3:N:1354:LYS:C	2.58	0.47
3:N:1434:TRP:O	3:N:1435:LEU:C	2.58	0.47
4:O:40:LEU:C	4:O:42:PRO:HD2	2.40	0.47
7:Y:30:THR:O	7:Y:31:LYS:C	2.57	0.47
7:Y:102:VAL:HG21	7:Y:125:MET:CE	2.45	0.47
7:Z:6:LYS:CD	7:Z:75:LEU:HD13	2.45	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Z:115:THR:CB	7:Z:116:PRO:CD	2.93	0.47
1:A:213:GLN:O	1:A:217:ILE:HG13	2.15	0.46
2:C:274:ARG:HG2	2:C:274:ARG:NH1	2.30	0.46
2:C:424:GLY:O	2:C:425:PHE:C	2.57	0.46
3:D:804:LEU:CG	3:D:830:ALA:O	2.63	0.46
3:D:939:PHE:O	3:D:943:THR:HG23	2.13	0.46
3:D:1230:GLY:O	3:D:1231:GLU:C	2.58	0.46
4:E:58:PRO:CG	4:E:59:ASN:H	2.23	0.46
1:F:189:ARG:HG3	1:F:191:ASP:OD1	2.16	0.46
1:G:94:LEU:O	1:G:146:ARG:NH2	2.47	0.46
1:G:221:HIS:HA	1:G:224:TYR:CD2	2.50	0.46
2:H:69:LEU:HD21	2:H:99:GLN:OE1	2.15	0.46
2:H:163:ILE:HG13	2:H:163:ILE:O	2.13	0.46
2:H:250:ARG:HD2	7:Z:80:GLY:HA2	1.97	0.46
2:H:1082:PRO:HB2	2:H:1084:SER:OG	2.14	0.46
2:H:1098:ASP:N	3:I:11:ALA:O	2.26	0.46
3:I:578:VAL:HA	3:I:581:LEU:HD21	1.97	0.46
3:I:1137:ARG:HG3	3:I:1137:ARG:NH1	2.30	0.46
3:I:1422:MET:HE3	3:I:1427:SER:HA	1.97	0.46
4:J:31:LEU:HD12	4:J:31:LEU:H	1.81	0.46
1:L:161:ARG:HG3	1:L:161:ARG:NH1	2.27	0.46
2:M:75:GLU:OE1	2:M:75:GLU:HA	2.14	0.46
2:M:198:ARG:NH2	2:M:203:ASP:OD2	2.48	0.46
2:M:267:TYR:O	2:M:268:ASP:C	2.56	0.46
2:M:544:THR:O	2:M:546:LEU:N	2.47	0.46
2:M:695:LEU:HD21	2:M:832:LYS:HB3	1.96	0.46
2:M:843:HIS:CD2	2:M:884:GLN:CA	2.98	0.46
2:M:897:LEU:HD21	2:M:921:ALA:N	2.30	0.46
2:M:1052:MET:HG3	3:N:623:VAL:CG2	2.45	0.46
3:N:105:VAL:HG22	3:N:112:ILE:CG2	2.45	0.46
3:N:561:GLY:O	3:N:563:PRO:HD2	2.15	0.46
3:N:841:TYR:N	3:N:841:TYR:CD2	2.81	0.46
3:N:927:THR:O	3:N:928:ALA:C	2.56	0.46
3:N:999:THR:HG23	3:N:1000:THR:N	2.29	0.46
3:N:1099:VAL:HG12	3:N:1103:HIS:HB3	1.97	0.46
3:N:1144:LEU:HA	3:N:1147:ARG:HG3	1.96	0.46
3:N:1164:ARG:NH1	3:N:1170:ASP:OD1	2.47	0.46
3:N:1232:PRO:HB2	3:N:1356:TYR:CE2	2.47	0.46
3:N:1313:VAL:HG21	3:N:1319:VAL:CG1	2.44	0.46
4:O:6:ILE:HA	4:O:9:LEU:HD12	1.95	0.46
7:Y:128:ALA:HB2	7:Y:140:LEU:CD2	2.39	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:86:VAL:HG13	1:A:86:VAL:O	2.16	0.46
2:C:118:ILE:HA	2:C:119:PRO:HD3	1.82	0.46
2:C:293:PHE:CD1	2:C:293:PHE:N	2.76	0.46
2:C:571:LEU:CD1	2:C:701:THR:H	2.28	0.46
2:C:697:ARG:CD	2:C:699:PHE:CD1	2.92	0.46
2:C:987:ILE:HD12	3:D:948:THR:CG2	2.45	0.46
3:D:95:LEU:HA	3:D:551:ASN:OD1	2.13	0.46
3:D:145:VAL:HG22	3:D:146:PRO:CD	2.45	0.46
3:D:354:VAL:HB	3:D:367:ILE:O	2.15	0.46
3:D:781:PRO:HB2	3:D:786:ILE:CD1	2.44	0.46
3:D:1083:ASP:O	3:D:1087:ARG:HB3	2.16	0.46
3:D:1213:ARG:HB2	3:D:1214:PRO:CD	2.45	0.46
2:H:25:SER:O	2:H:29:ALA:HB2	2.15	0.46
2:H:151:ASP:HB3	2:H:154:ARG:O	2.15	0.46
2:H:480:THR:HB	2:H:482:GLU:H	1.80	0.46
2:H:722:ILE:CG2	2:H:821:GLU:OE1	2.63	0.46
2:H:949:LYS:HD3	3:I:796:ARG:NH2	2.30	0.46
3:I:10:ILE:O	3:I:1454:GLY:HA2	2.14	0.46
3:I:1098:LEU:HD23	3:I:1229:ILE:HB	1.94	0.46
3:I:1221:VAL:O	3:I:1224:VAL:HB	2.15	0.46
4:J:47:LYS:O	4:J:54:LEU:HD13	2.14	0.46
1:L:57:TYR:HB3	1:L:141:GLU:HG2	1.97	0.46
1:L:68:ILE:HD12	1:L:68:ILE:N	2.30	0.46
1:L:73:GLU:HG3	1:L:130:ALA:CB	2.45	0.46
2:M:39:ARG:HG3	2:M:39:ARG:NH1	2.30	0.46
2:M:88:LEU:HD22	2:M:814:GLU:CG	2.44	0.46
2:M:94:LEU:C	2:M:95:TYR:CD1	2.92	0.46
3:N:95:LEU:HA	3:N:551:ASN:OD1	2.15	0.46
3:N:482:LYS:HG3	3:N:482:LYS:O	2.15	0.46
3:N:628:ARG:HG3	3:N:628:ARG:NH1	2.30	0.46
7:X:125:MET:HA	7:X:140:LEU:HD11	1.97	0.46
1:A:69:PRO:O	1:A:71:VAL:HG23	2.15	0.46
1:A:142:VAL:HG23	1:A:142:VAL:O	2.14	0.46
2:C:400:PRO:O	2:C:401:LEU:C	2.56	0.46
2:C:690:ILE:HG13	2:C:694:LEU:CD1	2.46	0.46
2:C:793:PRO:O	2:C:794:PRO:C	2.58	0.46
2:C:860:HIS:HA	2:C:866:PRO:HA	1.98	0.46
2:C:897:LEU:CD2	2:C:920:GLN:HG2	2.46	0.46
3:D:54:LYS:CG	3:D:55:ASP:N	2.78	0.46
3:D:172:PRO:HG2	3:D:175:VAL:HG21	1.98	0.46
3:D:470:LEU:CB	3:D:503:LEU:HD21	2.42	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:502:PHE:CZ	3:D:509:PRO:HB3	2.51	0.46
3:D:1102:THR:HG21	3:D:1371:VAL:HG22	1.96	0.46
3:D:1441:GLN:CD	3:D:1442:ASN:N	2.64	0.46
2:H:5:ARG:O	2:H:5:ARG:HG2	2.13	0.46
2:H:54:ILE:HG21	2:H:66:LEU:HB3	1.93	0.46
2:H:76:PRO:O	2:H:77:PRO:C	2.57	0.46
2:H:139:GLN:HE22	2:H:414:GLY:HA3	1.79	0.46
2:H:504:GLU:OE2	2:H:504:GLU:CA	2.50	0.46
2:H:863:ASP:CG	2:H:865:THR:HG22	2.41	0.46
2:H:1099:VAL:HG22	3:I:10:ILE:HG12	1.97	0.46
3:I:17:LYS:CG	3:I:21:TRP:HE1	2.16	0.46
3:I:149:LYS:H	3:I:149:LYS:HE2	1.81	0.46
3:I:918:ALA:O	3:I:922:LEU:HG	2.15	0.46
3:I:969:ARG:CG	3:I:970:LYS:N	2.73	0.46
3:I:1192:LEU:HD22	3:I:1345:GLU:OE2	2.15	0.46
1:L:206:THR:CG2	1:L:209:GLU:H	2.27	0.46
2:M:12:VAL:HG11	2:M:472:ARG:HD3	1.96	0.46
2:M:26:TYR:HA	2:M:29:ALA:HB3	1.97	0.46
2:M:816:LYS:HB2	2:M:819:VAL:HG21	1.98	0.46
2:M:840:ALA:HB2	2:M:846:LYS:HA	1.96	0.46
2:M:1030:GLN:HE22	3:N:628:ARG:HE	1.63	0.46
3:N:198:ARG:HG3	3:N:198:ARG:HH11	1.80	0.46
3:N:1254:GLN:HG2	3:N:1255:GLY:N	2.30	0.46
7:Y:18:GLN:O	7:Y:22:GLU:HG2	2.16	0.46
7:Z:125:MET:HA	7:Z:140:LEU:CD1	2.44	0.46
2:C:6:PHE:CD1	2:C:6:PHE:N	2.83	0.46
2:C:54:ILE:HG22	2:C:66:LEU:H	1.81	0.46
2:C:170:PRO:HD3	2:C:263:ASP:CB	2.46	0.46
2:C:263:ASP:C	2:C:264:PRO:O	2.56	0.46
2:C:449:ILE:O	2:C:451:LEU:HG	2.16	0.46
2:C:496:ILE:HD12	2:C:496:ILE:H	1.81	0.46
2:C:1092:LEU:HD21	3:D:1447:LEU:HD23	1.97	0.46
3:D:102:ILE:HD13	3:D:106:LYS:HB2	1.96	0.46
3:D:351:MET:CG	3:D:370:ALA:HB2	2.32	0.46
3:D:584:ASN:OD1	3:D:590:PRO:HG2	2.16	0.46
3:D:1109:GLU:CG	3:D:1202:GLN:H	2.29	0.46
3:D:1434:TRP:CD1	3:D:1434:TRP:C	2.92	0.46
3:D:1466:VAL:O	3:D:1469:GLY:N	2.46	0.46
1:F:45:LEU:N	1:F:45:LEU:CD1	2.77	0.46
2:H:886:LEU:O	2:H:887:GLU:C	2.58	0.46
2:H:946:ARG:HD2	2:H:984:GLU:CB	2.45	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:87:ARG:HG3	3:I:88:TYR:CD2	2.50	0.46
3:I:464:LEU:O	3:I:468:LEU:HG	2.14	0.46
3:I:471:GLU:H	3:I:471:GLU:HG2	1.56	0.46
1:K:194:LYS:O	1:K:194:LYS:HG2	2.13	0.46
2:M:374:ASN:ND2	2:M:376:ARG:H	2.13	0.46
2:M:437:ARG:CZ	2:M:488:ALA:HA	2.46	0.46
2:M:640:ARG:NH1	2:M:640:ARG:HG2	2.30	0.46
2:M:654:LEU:HD23	2:M:654:LEU:N	2.28	0.46
2:M:1008:ARG:NH2	2:M:1012:PRO:HD2	2.29	0.46
3:N:368:VAL:H	3:N:377:VAL:HB	1.81	0.46
3:N:606:ILE:O	3:N:613:ARG:HB2	2.15	0.46
3:N:785:ILE:O	3:N:786:ILE:C	2.57	0.46
3:N:996:TRP:CE3	3:N:999:THR:HG21	2.51	0.46
3:N:1299:PHE:HD2	3:N:1299:PHE:H	1.62	0.46
7:X:134:VAL:HG22	7:X:153:ALA:HA	1.98	0.46
1:A:20:TYR:CE2	1:A:198:ARG:HB2	2.51	0.46
1:B:16:GLN:HA	1:B:16:GLN:NE2	2.30	0.46
2:C:26:TYR:O	2:C:29:ALA:HB3	2.14	0.46
2:C:139:GLN:HG2	2:C:140:ILE:N	2.29	0.46
2:C:174:LEU:CD2	2:C:184:MET:HG3	2.46	0.46
2:C:617:ASP:OD1	2:C:619:ARG:HG3	2.15	0.46
2:C:997:LEU:C	2:C:999:HIS:N	2.69	0.46
2:C:1011:GLY:CA	2:C:1026:GLN:HG2	2.46	0.46
2:C:1099:VAL:HG22	3:D:10:ILE:CG1	2.45	0.46
3:D:95:LEU:HD23	3:D:551:ASN:OD1	2.16	0.46
3:D:149:LYS:H	3:D:149:LYS:HE3	1.78	0.46
3:D:184:GLU:OE1	3:D:184:GLU:HA	2.15	0.46
3:D:875:THR:CG2	3:D:879:ARG:HB2	2.46	0.46
3:D:888:GLU:O	3:D:889:ALA:C	2.58	0.46
3:D:994:GLN:OE1	3:D:994:GLN:HA	2.16	0.46
3:D:1176:LYS:O	3:D:1179:GLU:HB2	2.15	0.46
3:D:1236:LEU:O	3:D:1237:THR:C	2.59	0.46
2:H:579:VAL:CG1	2:H:887:GLU:HG3	2.46	0.46
2:H:611:ILE:CG1	2:H:625:LEU:HD21	2.46	0.46
2:H:772:ARG:NH1	3:N:484:PRO:C	2.73	0.46
2:H:805:ARG:CB	2:H:805:ARG:HH11	2.27	0.46
2:H:901:TYR:HE2	2:H:917:LEU:HD13	1.81	0.46
2:H:1095:LEU:O	2:H:1096:ALA:C	2.59	0.46
3:I:140:ALA:N	3:I:450:TYR:CD2	2.83	0.46
3:I:619:LEU:HD23	3:I:619:LEU:HA	1.59	0.46
3:I:795:VAL:CG2	3:I:879:ARG:NH1	2.75	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:864:VAL:HG12	3:I:865:THR:H	1.79	0.46
3:I:1096:ARG:HG2	3:I:1096:ARG:NH1	2.29	0.46
1:K:91:ASN:ND2	1:K:93:SER:CB	2.79	0.46
1:K:162:ILE:HD12	1:K:163:ASN:N	2.31	0.46
1:L:83:LYS:HE3	1:L:167:VAL:HG12	1.97	0.46
1:L:226:SER:O	1:L:228:PRO:HD3	2.15	0.46
2:M:48:PHE:HD1	2:M:48:PHE:HA	1.62	0.46
2:M:88:LEU:HD13	2:M:89:THR:H	1.79	0.46
2:M:114:PHE:O	2:M:114:PHE:CD1	2.68	0.46
2:M:224:GLU:HB2	2:M:228:ALA:HB2	1.97	0.46
2:M:443:THR:HG21	3:N:1078:ARG:CD	2.46	0.46
2:M:579:VAL:HG13	2:M:579:VAL:O	2.15	0.46
2:M:654:LEU:HD13	2:M:663:ASN:C	2.41	0.46
2:M:890:LEU:HD21	2:M:901:TYR:CD1	2.49	0.46
2:M:1019:GLN:CD	3:N:621:LYS:CG	2.88	0.46
2:M:1092:LEU:CD2	3:N:1447:LEU:HD23	2.45	0.46
3:N:57:GLU:HG3	3:N:64:LYS:HD2	1.97	0.46
3:N:66:GLN:NE2	3:N:66:GLN:O	2.49	0.46
3:N:639:LEU:CD1	3:N:766:ALA:HB2	2.46	0.46
3:N:906:GLN:HB3	3:N:911:LEU:CD1	2.33	0.46
4:O:59:ASN:HD22	4:O:60:ALA:H	1.62	0.46
7:X:5:VAL:HG11	7:X:72:ALA:HB2	1.97	0.46
2:C:218:VAL:HG12	2:C:222:MET:HE2	1.98	0.46
2:C:752:GLY:H	2:C:792:VAL:HB	1.80	0.46
2:C:1006:HIS:O	3:D:627:GLY:HA2	2.15	0.46
2:C:1092:LEU:O	2:C:1095:LEU:O	2.34	0.46
3:D:72:VAL:CG2	3:D:77:GLY:HA2	2.45	0.46
3:D:100:ALA:CB	3:D:128:TYR:OH	2.60	0.46
3:D:142:LEU:HA	3:D:145:VAL:O	2.15	0.46
3:D:207:PHE:CD1	3:D:207:PHE:N	2.83	0.46
3:D:469:ASP:O	3:D:472:ALA:HB3	2.15	0.46
3:D:589:ALA:HA	3:D:590:PRO:HD3	1.81	0.46
3:D:843:PHE:HB2	3:D:866:VAL:HG22	1.98	0.46
3:D:1109:GLU:HG2	3:D:1201:CYS:CB	2.46	0.46
4:E:8:LYS:O	4:E:12:MET:HG3	2.15	0.46
1:G:16:GLN:HA	1:G:16:GLN:HE21	1.81	0.46
2:H:110:GLU:HB2	2:H:368:THR:CG2	2.45	0.46
2:H:575:GLN:NE2	2:H:671:ASN:H	2.13	0.46
2:H:714:ASP:HB2	2:H:818:GLY:O	2.15	0.46
2:H:1046:ALA:HB2	3:I:1476:THR:HB	1.98	0.46
3:I:141:ILE:HG12	3:I:448:GLU:OE1	2.16	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:434:ARG:H	3:I:449:SER:HB3	1.81	0.46
3:I:644:LEU:HD12	3:I:645:PRO:HD2	1.95	0.46
3:I:800:LYS:CG	3:I:826:PRO:HD2	2.39	0.46
3:I:1063:GLU:OE1	3:I:1063:GLU:HA	2.16	0.46
3:I:1223:ILE:O	3:I:1226:ALA:N	2.49	0.46
3:I:1287:GLU:O	3:I:1289:LYS:N	2.49	0.46
1:L:74:ASP:O	1:L:75:VAL:C	2.59	0.46
2:M:627:ARG:O	2:M:638:ASP:CB	2.59	0.46
2:M:716:LYS:HB3	2:M:716:LYS:HE2	1.72	0.46
2:M:1092:LEU:O	2:M:1095:LEU:O	2.32	0.46
3:N:117:ASP:CG	3:N:117:ASP:O	2.59	0.46
3:N:365:ASP:H	3:N:379:ALA:HB3	1.81	0.46
3:N:407:VAL:HA	3:N:422:ALA:HB2	1.97	0.46
3:N:756:GLN:O	3:N:759:ALA:HB3	2.15	0.46
3:N:1207:TYR:HB3	3:N:1208:ASP:H	1.58	0.46
3:N:1233:GLY:HA2	3:N:1236:LEU:CD1	2.46	0.46
3:N:1303:TYR:HB3	3:N:1305:LEU:HD21	1.97	0.46
7:Y:28:GLU:O	7:Y:32:ILE:HG12	2.16	0.46
7:Y:89:VAL:HG12	7:Y:90:GLU:N	2.31	0.46
1:B:58:ILE:HD11	1:B:140:MET:HE3	1.97	0.46
2:C:141:HIS:HB3	2:C:418:LEU:CG	2.45	0.46
2:C:249:LYS:HD2	2:C:250:ARG:H	1.81	0.46
2:C:461:VAL:HG13	2:C:465:GLY:HA2	1.97	0.46
2:C:556:ASN:OD1	7:X:46:SER:N	2.49	0.46
2:C:557:ARG:NH1	2:C:557:ARG:HG3	2.31	0.46
2:C:668:LEU:N	2:C:668:LEU:CD1	2.74	0.46
2:C:691:SER:O	2:C:693:GLU:N	2.49	0.46
2:C:1061:GLU:HG3	3:D:84:ILE:HD12	1.97	0.46
3:D:416:ALA:HA	3:D:432:TYR:CD2	2.51	0.46
3:D:798:GLU:CG	3:D:799:LYS:H	2.29	0.46
3:D:869:MET:SD	3:D:894:LYS:HE3	2.56	0.46
3:D:996:TRP:O	3:D:999:THR:HG22	2.15	0.46
3:D:1080:GLY:C	7:X:49:GLU:HG3	2.41	0.46
3:D:1280:VAL:O	3:D:1294:VAL:HA	2.15	0.46
3:D:1388:ARG:HG3	3:D:1389:LEU:N	2.31	0.46
1:F:21:GLY:HA3	1:F:207:PRO:HB3	1.98	0.46
1:G:187:GLY:O	3:I:688:TRP:HD1	1.99	0.46
2:H:140:ILE:CG2	2:H:333:ILE:CD1	2.90	0.46
2:H:759:THR:HB	2:H:785:VAL:HG22	1.98	0.46
3:I:145:VAL:HG22	3:I:146:PRO:CD	2.42	0.46
3:I:407:VAL:HA	3:I:422:ALA:CB	2.46	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:788:GLY:O	3:I:792:ILE:HG22	2.15	0.46
3:I:919:PHE:CZ	3:I:924:MET:HE2	2.51	0.46
3:I:1192:LEU:HG	3:I:1369:GLU:HB3	1.96	0.46
3:I:1356:TYR:HD1	3:I:1356:TYR:H	1.62	0.46
3:I:1369:GLU:C	3:I:1372:VAL:HG12	2.39	0.46
3:I:1459:LEU:N	3:I:1459:LEU:CD1	2.77	0.46
1:L:104:GLU:HA	1:L:136:GLY:O	2.15	0.46
2:M:140:ILE:HG22	2:M:333:ILE:HD13	1.98	0.46
2:M:523:ILE:C	2:M:523:ILE:CD1	2.88	0.46
2:M:559:LEU:HD23	2:M:560:MET:N	2.30	0.46
2:M:676:ILE:O	2:M:676:ILE:HG12	2.14	0.46
2:M:756:VAL:O	2:M:789:SER:HB3	2.16	0.46
2:M:863:ASP:O	2:M:865:THR:N	2.49	0.46
3:N:507:ASN:N	3:N:507:ASN:ND2	2.64	0.46
3:N:770:LEU:HD23	3:N:777:PRO:HA	1.97	0.46
3:N:1021:TYR:HE2	3:N:1025:GLN:HG2	1.75	0.46
3:N:1080:GLY:HA3	7:Z:49:GLU:HG3	1.96	0.46
7:X:26:LEU:HD13	7:X:58:ILE:HG22	1.97	0.46
7:Y:43:TYR:O	7:Y:44:ASP:C	2.59	0.46
7:Z:6:LYS:HB3	7:Z:75:LEU:HD13	1.98	0.46
1:B:64:GLU:HB3	1:B:65:PHE:CD1	2.51	0.46
1:B:153:ALA:CB	1:B:168:ASP:OD1	2.63	0.46
2:C:139:GLN:C	2:C:334:ARG:HG3	2.41	0.46
2:C:282:GLY:O	2:C:283:ILE:CG1	2.64	0.46
2:C:338:GLU:C	2:C:341:THR:HG22	2.39	0.46
2:C:583:LEU:O	2:C:584:GLU:C	2.59	0.46
2:C:657:ASP:CG	2:C:662:GLU:HA	2.40	0.46
2:C:1061:GLU:CD	3:D:84:ILE:HD12	2.37	0.46
2:C:1084:SER:C	2:C:1087:VAL:HG12	2.41	0.46
3:D:204:LEU:HB3	3:D:394:LEU:CG	2.41	0.46
3:D:471:GLU:O	3:D:474:GLU:HB3	2.16	0.46
3:D:475:LYS:HG3	3:D:475:LYS:H	1.49	0.46
3:D:785:ILE:O	3:D:786:ILE:C	2.58	0.46
3:D:850:LEU:HA	3:D:853:VAL:HG23	1.97	0.46
3:D:853:VAL:HG13	3:D:858:VAL:O	2.15	0.46
3:D:918:ALA:CB	3:D:927:THR:HG23	2.46	0.46
3:D:1288:GLU:OE2	3:D:1289:LYS:HE3	2.15	0.46
3:D:1365:ASP:O	3:D:1366:LYS:C	2.59	0.46
3:D:1493:LYS:HE2	3:D:1493:LYS:HA	1.97	0.46
1:F:91:ASN:ND2	1:F:93:SER:HB2	2.30	0.46
1:F:127:LEU:HG	1:F:129:ILE:CD1	2.46	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:22:GLN:NE2	2:H:336:VAL:CG2	2.79	0.46
2:H:265:ARG:O	2:H:288:ARG:HG2	2.15	0.46
2:H:393:GLN:HE21	2:H:393:GLN:HB2	1.58	0.46
2:H:424:GLY:O	2:H:425:PHE:C	2.57	0.46
2:H:794:PRO:HG2	2:H:1025:ALA:O	2.15	0.46
2:H:939:ARG:HA	2:H:939:ARG:NE	2.24	0.46
3:I:52:PRO:HG3	3:I:78:VAL:HG13	1.98	0.46
3:I:131:LYS:HD2	3:I:568:ARG:CG	2.37	0.46
3:I:1230:GLY:O	3:I:1231:GLU:C	2.58	0.46
3:I:1387:SER:HB3	3:I:1391:GLU:OE2	2.16	0.46
4:J:63:TRP:O	4:J:64:ALA:C	2.58	0.46
2:M:36:PRO:CB	2:M:70:GLU:HG2	2.45	0.46
2:M:77:PRO:HD3	2:M:91:GLN:O	2.16	0.46
2:M:160:ALA:O	2:M:173:ASP:HA	2.16	0.46
2:M:203:ASP:O	2:M:204:GLN:C	2.59	0.46
2:M:242:LEU:CD1	2:M:254:VAL:HG21	2.45	0.46
2:M:670:GLN:CG	2:M:700:TYR:CE1	2.99	0.46
2:M:1005:MET:HE2	2:M:1005:MET:HB2	1.58	0.46
2:M:1086:ARG:HD3	3:N:88:TYR:CD2	2.50	0.46
3:N:546:ARG:NH1	3:N:546:ARG:HG2	2.31	0.46
3:N:667:ALA:HA	3:N:668:PRO:HD3	1.78	0.46
3:N:1229:ILE:HD12	3:N:1371:VAL:HG21	1.97	0.46
3:N:1471:LEU:HD21	3:N:1477:GLY:HA2	1.97	0.46
7:Y:5:VAL:CG1	7:Y:72:ALA:CB	2.92	0.46
2:C:174:LEU:HD22	2:C:193:LEU:CD2	2.46	0.46
2:C:677:MET:HA	2:C:873:PRO:HG2	1.97	0.46
2:C:874:LEU:HD21	3:D:787:LEU:HD22	1.97	0.46
2:C:1070:ILE:HG21	3:D:655:PRO:HB2	1.98	0.46
3:D:204:LEU:N	3:D:394:LEU:O	2.48	0.46
3:D:434:ARG:HB2	3:D:449:SER:OG	2.15	0.46
3:D:907:GLU:CG	3:D:908:LYS:N	2.77	0.46
3:D:939:PHE:O	3:D:942:SER:HB3	2.15	0.46
3:D:984:THR:HG22	3:D:987:GLU:HG3	1.98	0.46
3:D:1094:LEU:CD1	3:D:1098:LEU:CD1	2.93	0.46
3:D:1147:ARG:HD2	3:D:1188:VAL:CG2	2.46	0.46
3:D:1198:TYR:HE1	3:D:1432:LYS:HZ1	1.61	0.46
3:D:1389:LEU:H	3:D:1389:LEU:HD23	1.80	0.46
1:F:50:GLY:O	1:F:146:ARG:HA	2.16	0.46
2:H:203:ASP:O	2:H:204:GLN:C	2.58	0.46
2:H:227:PHE:HD2	2:H:237:ARG:HE	1.62	0.46
2:H:235:LEU:O	2:H:239:PHE:HD2	1.97	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:307:LEU:HD12	2:H:307:LEU:HA	1.78	0.46
2:H:691:SER:O	2:H:693:GLU:N	2.49	0.46
3:I:136:ASP:CB	3:I:137:PRO:HD3	2.38	0.46
3:I:970:LYS:HA	3:I:973:GLN:HE21	1.81	0.46
3:I:1080:GLY:HA2	7:Y:49:GLU:HG3	1.98	0.46
3:I:1107:VAL:HG13	3:I:1200:VAL:O	2.16	0.46
3:I:1149:LEU:HD23	3:I:1187:PRO:O	2.15	0.46
3:I:1220:ALA:HB1	3:I:1223:ILE:HD12	1.97	0.46
1:L:38:ASN:O	1:L:42:ARG:HG3	2.16	0.46
1:L:91:ASN:OD1	1:L:91:ASN:N	2.48	0.46
2:M:64:LEU:CD1	2:M:100:LEU:HD13	2.46	0.46
2:M:140:ILE:HD12	2:M:140:ILE:C	2.41	0.46
2:M:147:TYR:O	2:M:148:PHE:HD2	1.98	0.46
2:M:200:LEU:HD13	2:M:300:ASP:OD2	2.16	0.46
2:M:332:ARG:CG	2:M:465:GLY:HA3	2.46	0.46
2:M:360:LEU:C	2:M:362:GLY:N	2.74	0.46
2:M:433:THR:HG21	2:M:488:ALA:HB1	1.97	0.46
2:M:470:PRO:HB2	2:M:534:VAL:HG21	1.98	0.46
2:M:675:ALA:CA	2:M:989:VAL:HG12	2.39	0.46
2:M:890:LEU:CD2	2:M:901:TYR:CD1	2.98	0.46
2:M:1086:ARG:HH12	2:M:1111:ILE:HG13	1.81	0.46
3:N:834:THR:HB	3:N:838:ARG:HB2	1.96	0.46
3:N:999:THR:CG2	3:N:1000:THR:N	2.79	0.46
3:N:1031:ASN:HD21	7:Z:32:ILE:HG23	1.81	0.46
3:N:1159:ARG:HG2	3:N:1159:ARG:NH1	2.28	0.46
3:N:1379:VAL:HA	3:N:1420:LEU:HB2	1.98	0.46
4:O:33:HIS:ND1	4:O:89:MET:HG2	2.31	0.46
4:O:47:LYS:C	4:O:54:LEU:HD13	2.41	0.46
7:Z:48:LEU:O	7:Z:52:LYS:HG3	2.16	0.46
7:Z:133:ARG:O	7:Z:134:VAL:C	2.58	0.46
1:A:50:GLY:O	1:A:146:ARG:HA	2.16	0.46
1:A:101:LEU:HG	1:A:102:LYS:N	2.29	0.46
1:A:115:LEU:HD12	1:A:116:PRO:HD2	1.98	0.46
1:B:45:LEU:HD11	1:B:177:VAL:HG22	1.98	0.46
1:B:57:TYR:HB2	1:B:164:ALA:CB	2.46	0.46
1:B:101:LEU:HD23	1:B:101:LEU:O	2.14	0.46
2:C:42:VAL:HA	2:C:46:ALA:HB2	1.97	0.46
2:C:84:ARG:HD3	2:C:131:GLY:O	2.15	0.46
2:C:115:LEU:H	2:C:115:LEU:HG	1.35	0.46
2:C:160:ALA:O	2:C:173:ASP:HA	2.16	0.46
2:C:554:ASP:OD2	2:C:556:ASN:CB	2.64	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1005:MET:HE1	3:D:724:GLN:CB	2.47	0.46
2:C:1090:LYS:NZ	2:C:1112:PHE:HE1	2.14	0.46
3:D:10:ILE:HG22	3:D:1451:ALA:HA	1.98	0.46
3:D:52:PRO:O	3:D:86:ARG:CD	2.59	0.46
3:D:199:LEU:HD23	3:D:200:ASP:N	2.30	0.46
3:D:199:LEU:HD23	3:D:200:ASP:O	2.16	0.46
3:D:347:VAL:CG1	3:D:351:MET:HB3	2.36	0.46
3:D:583:ASP:CG	3:D:586:ARG:HG2	2.40	0.46
3:D:1135:ARG:HD2	3:D:1139:ASP:HB2	1.96	0.46
3:D:1167:SER:O	3:D:1171:VAL:HG23	2.16	0.46
2:H:250:ARG:CB	2:H:250:ARG:CZ	2.94	0.46
2:H:304:LEU:HG	2:H:305:PRO:CD	2.46	0.46
2:H:363:SER:HA	7:Z:12:TYR:OH	2.15	0.46
2:H:437:ARG:NH2	2:H:488:ALA:HA	2.31	0.46
2:H:449:ILE:C	2:H:451:LEU:H	2.24	0.46
2:H:824:ARG:HG2	2:H:824:ARG:NH1	2.30	0.46
2:H:900:ARG:HH11	2:H:900:ARG:HG3	1.81	0.46
2:H:1010:THR:HG21	2:H:1063:ARG:HH21	1.80	0.46
3:I:104:PHE:HB3	3:I:512:MET:SD	2.56	0.46
3:I:1150:ALA:O	3:I:1162:GLU:HG2	2.16	0.46
2:M:18:LEU:H	2:M:18:LEU:HD12	1.81	0.46
2:M:249:LYS:HD2	2:M:249:LYS:HA	1.78	0.46
2:M:409:ARG:HB3	2:M:454:SER:OG	2.16	0.46
2:M:443:THR:HG21	3:N:1078:ARG:NE	2.31	0.46
2:M:591:SER:O	2:M:592:LEU:HB2	2.15	0.46
2:M:874:LEU:HD23	3:N:1023:MET:SD	2.56	0.46
2:M:998:TYR:CG	2:M:998:TYR:O	2.68	0.46
3:N:483:HIS:HB2	3:N:484:PRO:CD	2.37	0.46
3:N:800:LYS:HD3	3:N:830:ALA:HB3	1.98	0.46
3:N:1031:ASN:HB3	3:N:1034:GLN:CD	2.40	0.46
7:Y:12:TYR:C	7:Y:12:TYR:CD2	2.94	0.46
1:A:41:ARG:HH11	1:A:41:ARG:CG	2.27	0.45
2:C:332:ARG:NH2	2:C:338:GLU:CD	2.74	0.45
2:C:720:GLU:HG2	2:C:760:SER:CB	2.46	0.45
2:C:880:MET:HB3	3:D:1061:PHE:HE2	1.81	0.45
2:C:1093:GLN:HB3	3:D:21:TRP:HZ3	1.79	0.45
3:D:166:GLN:NE2	3:D:394:LEU:HD12	2.30	0.45
3:D:473:LEU:HA	3:D:476:GLU:HB2	1.98	0.45
3:D:841:TYR:HB2	3:D:864:VAL:CG1	2.46	0.45
3:D:925:GLU:HG2	3:D:926:LYS:N	2.31	0.45
3:D:1348:LEU:O	3:D:1349:VAL:C	2.58	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:150:TYR:CE1	2:H:696:LYS:HA	2.51	0.45
2:H:163:ILE:HD12	2:H:163:ILE:C	2.41	0.45
2:H:194:VAL:O	2:H:195:LEU:C	2.59	0.45
2:H:501:THR:HA	2:H:502:PRO:HD3	1.77	0.45
2:H:677:MET:HA	2:H:873:PRO:HG3	1.96	0.45
2:H:808:ARG:HH21	2:H:820:ARG:HH21	1.63	0.45
2:H:889:HIS:O	2:H:892:LEU:HB3	2.16	0.45
2:H:1014:SER:CB	2:H:1017:THR:O	2.65	0.45
2:H:1019:GLN:NE2	3:I:621:LYS:HD2	2.31	0.45
2:H:1046:ALA:HB3	3:I:1476:THR:HB	1.98	0.45
3:I:783:ARG:HD2	3:I:783:ARG:H	1.81	0.45
3:I:978:TYR:HB2	3:I:983:LEU:HD11	1.99	0.45
3:I:1201:CYS:SG	3:I:1204:CYS:SG	3.15	0.45
4:J:36:LYS:HZ3	4:J:45:ARG:NH2	2.12	0.45
1:K:18:ARG:HH12	1:K:88:ARG:HE	1.64	0.45
1:K:44:LEU:HA	1:K:48:ILE:CD1	2.46	0.45
2:M:207:LEU:CD2	2:M:211:LEU:HD23	2.46	0.45
2:M:214:TYR:C	2:M:214:TYR:CD1	2.94	0.45
2:M:342:ASP:O	2:M:345:ARG:HG2	2.17	0.45
2:M:524:VAL:HG12	2:M:528:GLU:HB2	1.98	0.45
2:M:710:ILE:HD11	2:M:758:ARG:HD3	1.97	0.45
2:M:793:PRO:O	2:M:794:PRO:C	2.58	0.45
3:N:540:LEU:H	3:N:540:LEU:HD12	1.81	0.45
3:N:592:THR:O	3:N:593:ASN:C	2.58	0.45
3:N:806:PHE:C	3:N:808:THR:N	2.71	0.45
3:N:1460:ILE:HD13	3:N:1460:ILE:H	1.81	0.45
7:X:35:GLU:HA	7:X:35:GLU:OE1	2.16	0.45
7:Y:102:VAL:CG2	7:Y:119:ILE:HD11	2.46	0.45
7:Z:88:VAL:HG22	7:Z:103:GLN:HG3	1.98	0.45
1:B:211:LEU:O	1:B:214:ALA:HB3	2.16	0.45
2:C:127:PHE:CD1	2:C:136:ILE:HD13	2.52	0.45
2:C:139:GLN:HB3	2:C:334:ARG:CG	2.47	0.45
2:C:165:LEU:HB3	2:C:265:ARG:NH1	2.31	0.45
2:C:203:ASP:O	2:C:204:GLN:C	2.59	0.45
2:C:286:SER:CB	2:C:299:LYS:HE3	2.43	0.45
2:C:854:PRO:C	2:C:856:GLU:N	2.74	0.45
2:C:1014:SER:HB2	2:C:1021:LEU:CD1	2.45	0.45
2:C:1035:MET:HA	2:C:1038:TRP:CZ3	2.51	0.45
2:C:1038:TRP:O	2:C:1039:ALA:C	2.58	0.45
2:C:1096:ALA:CB	3:D:101:HIS:NE2	2.79	0.45
3:D:54:LYS:HG2	3:D:57:GLU:OE2	2.16	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1451:ALA:O	3:D:1452:ILE:C	2.58	0.45
1:F:80:LEU:HA	1:F:83:LYS:HE3	1.98	0.45
1:F:206:THR:HG23	1:F:209:GLU:H	1.78	0.45
2:H:332:ARG:NH2	2:H:338:GLU:CD	2.74	0.45
3:I:414:ARG:N	3:I:414:ARG:HD2	2.31	0.45
3:I:520:LEU:HD21	3:I:524:LEU:HB3	1.98	0.45
3:I:843:PHE:N	3:I:843:PHE:CD1	2.83	0.45
3:I:1047:LYS:HG2	3:I:1053:PHE:CD1	2.51	0.45
3:I:1197:ARG:HG3	3:I:1198:TYR:H	1.81	0.45
3:I:1492:LEU:HD21	4:J:79:LEU:HD11	1.98	0.45
1:K:228:PRO:O	1:K:229:GLN:HG3	2.16	0.45
2:M:66:LEU:HD22	2:M:372:LEU:HD23	1.99	0.45
2:M:90:TYR:CD1	2:M:120:LEU:HB2	2.52	0.45
2:M:441:VAL:HG12	2:M:559:LEU:HA	1.98	0.45
2:M:710:ILE:HG21	2:M:756:VAL:CG1	2.43	0.45
3:N:148:GLU:HB3	3:N:151:GLN:HB2	1.97	0.45
3:N:638:LYS:O	3:N:640:HIS:N	2.49	0.45
3:N:950:GLY:O	3:N:953:ASP:N	2.46	0.45
3:N:1118:ILE:HD12	3:N:1118:ILE:N	2.32	0.45
3:N:1147:ARG:O	3:N:1165:TYR:HA	2.16	0.45
3:N:1287:GLU:O	3:N:1288:GLU:C	2.59	0.45
3:N:1287:GLU:O	3:N:1289:LYS:N	2.49	0.45
3:N:1311:LEU:HD23	3:N:1311:LEU:H	1.77	0.45
4:O:40:LEU:C	4:O:40:LEU:HD12	2.42	0.45
4:O:47:LYS:C	4:O:54:LEU:CD1	2.89	0.45
1:A:94:LEU:HD11	1:A:119:ASP:OD1	2.16	0.45
1:B:24:VAL:HG22	1:B:196:THR:CG2	2.46	0.45
1:B:62:LEU:HD12	1:B:63:HIS:H	1.80	0.45
1:B:152:PRO:HG2	3:D:857:ILE:HD12	1.97	0.45
2:C:69:LEU:CD1	2:C:97:ARG:HB3	2.27	0.45
2:C:122:THR:HB	2:C:124:ASP:OD1	2.17	0.45
2:C:376:ARG:CB	2:C:377:PRO:HD3	2.46	0.45
2:C:557:ARG:NH1	2:C:560:MET:CG	2.79	0.45
2:C:571:LEU:HD11	2:C:700:TYR:CA	2.46	0.45
2:C:585:GLU:O	2:C:588:VAL:CG2	2.61	0.45
2:C:640:ARG:NH1	2:C:640:ARG:HG2	2.32	0.45
2:C:679:PHE:C	3:D:943:THR:HG21	2.41	0.45
2:C:722:ILE:O	2:C:722:ILE:HG23	2.16	0.45
2:C:775:ARG:O	2:C:779:GLY:C	2.59	0.45
2:C:886:LEU:O	2:C:887:GLU:C	2.58	0.45
2:C:889:HIS:CD2	3:D:951:ILE:HG22	2.51	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:997:LEU:O	2:C:999:HIS:N	2.45	0.45
2:C:1008:ARG:NH1	3:D:624:ASP:OD1	2.49	0.45
3:D:84:ILE:C	3:D:86:ARG:H	2.21	0.45
3:D:355:VAL:CG2	3:D:367:ILE:HG23	2.47	0.45
3:D:521:PRO:C	3:D:525:ARG:NH1	2.74	0.45
3:D:1094:LEU:CG	3:D:1098:LEU:HD11	2.46	0.45
3:D:1139:ASP:OD1	3:D:1357:ARG:HD3	2.17	0.45
4:E:63:TRP:CD1	4:E:63:TRP:N	2.83	0.45
1:F:227:ASN:O	1:F:227:ASN:ND2	2.50	0.45
2:H:30:LEU:O	2:H:30:LEU:HD12	2.16	0.45
2:H:73:LEU:C	2:H:73:LEU:CD1	2.85	0.45
2:H:263:ASP:OD2	2:H:263:ASP:N	2.49	0.45
2:H:676:ILE:O	3:I:948:THR:CG2	2.62	0.45
2:H:1051:GLU:C	2:H:1056:LYS:HD2	2.41	0.45
3:I:926:LYS:O	3:I:929:ARG:HB2	2.16	0.45
3:I:1112:CYS:HB2	3:I:1195:GLN:CD	2.42	0.45
3:I:1114:THR:O	3:I:1114:THR:HG23	2.16	0.45
3:I:1161:GLU:CG	3:I:1164:ARG:HB2	2.46	0.45
3:I:1216:SER:CB	4:J:16:LYS:HB3	2.46	0.45
3:I:1235:GLN:NE2	7:Y:37:MET:HE3	2.32	0.45
3:I:1263:PHE:HE2	3:I:1371:VAL:HG11	1.81	0.45
3:I:1283:ILE:HG22	3:I:1284:GLU:N	2.31	0.45
3:I:1305:LEU:HD12	3:I:1311:LEU:HD13	1.97	0.45
3:I:1352:ILE:O	3:I:1355:VAL:CG2	2.65	0.45
1:K:50:GLY:HA3	1:K:173:PRO:HG3	1.98	0.45
1:L:20:TYR:HE2	1:L:198:ARG:HB2	1.80	0.45
1:L:170:VAL:HG23	1:L:170:VAL:O	2.17	0.45
2:M:68:PHE:HE1	2:M:96:ALA:HB1	1.81	0.45
2:M:77:PRO:HB2	2:M:78:PHE:HD1	1.82	0.45
2:M:263:ASP:C	2:M:264:PRO:O	2.57	0.45
2:M:265:ARG:HB3	2:M:267:TYR:CD2	2.49	0.45
2:M:327:HIS:C	2:M:329:GLY:N	2.74	0.45
2:M:328:LEU:C	2:M:330:ASN:H	2.24	0.45
2:M:722:ILE:O	2:M:722:ILE:CG2	2.63	0.45
2:M:1030:GLN:NE2	3:N:628:ARG:HD3	2.32	0.45
3:N:10:ILE:CG2	3:N:1451:ALA:HA	2.45	0.45
3:N:116:LEU:HD23	3:N:116:LEU:C	2.41	0.45
3:N:143:ASN:CB	3:N:161:LEU:CD2	2.95	0.45
3:N:641:GLN:O	3:N:716:PHE:CD2	2.64	0.45
3:N:649:ALA:O	3:N:650:LEU:C	2.59	0.45
3:N:804:LEU:HD13	3:N:829:VAL:CB	2.46	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:957:PRO:HG2	3:N:1007:VAL:CA	2.43	0.45
3:N:1233:GLY:HA2	3:N:1236:LEU:HD11	1.99	0.45
3:N:1486:VAL:CG2	4:O:29:GLN:OE1	2.64	0.45
7:Y:110:ALA:O	7:Y:111:ASN:HB2	2.16	0.45
1:B:34:VAL:CG2	1:B:181:VAL:HG21	2.29	0.45
1:B:161:ARG:HB3	1:B:163:ASN:OD1	2.16	0.45
2:C:45:GLN:O	2:C:48:PHE:HB2	2.16	0.45
2:C:430:VAL:HA	2:C:434:HIS:ND1	2.32	0.45
2:C:1041:GLU:O	2:C:1042:ALA:C	2.59	0.45
2:C:1047:HIS:O	2:C:1051:GLU:HB2	2.16	0.45
2:C:1063:ARG:HE	2:C:1063:ARG:HB3	1.64	0.45
3:D:26:VAL:CG2	3:D:519:VAL:HG21	2.47	0.45
3:D:30:GLU:HB3	3:D:40:GLU:HB3	1.99	0.45
3:D:554:LEU:HD22	3:D:574:LEU:HD22	1.98	0.45
3:D:666:ILE:HD11	3:D:686:GLU:HB2	1.97	0.45
3:D:827:ILE:H	3:D:827:ILE:CD1	2.20	0.45
3:D:927:THR:O	3:D:928:ALA:C	2.60	0.45
3:D:996:TRP:CA	3:D:999:THR:HG22	2.45	0.45
3:D:1100:ASP:C	3:D:1103:HIS:HD1	2.23	0.45
3:D:1108:ARG:N	3:D:1108:ARG:CD	2.79	0.45
3:D:1166:LEU:N	3:D:1166:LEU:CD2	2.64	0.45
3:D:1305:LEU:CD1	3:D:1311:LEU:HD22	2.33	0.45
3:D:1488:ASP:C	3:D:1490:LYS:N	2.75	0.45
4:E:40:LEU:C	4:E:40:LEU:HD12	2.40	0.45
1:G:221:HIS:HA	1:G:224:TYR:HD2	1.81	0.45
2:H:86:LYS:NZ	2:H:811:PRO:HB2	2.32	0.45
2:H:264:PRO:HB3	2:H:289:THR:HG21	1.97	0.45
2:H:433:THR:CG2	2:H:488:ALA:HB1	2.46	0.45
2:H:724:ARG:HG3	2:H:741:GLY:H	1.81	0.45
2:H:997:LEU:HD22	2:H:997:LEU:N	2.32	0.45
3:I:47:GLU:O	3:I:51:GLY:CA	2.65	0.45
3:I:482:LYS:HG3	3:I:1388:ARG:NH2	2.32	0.45
3:I:606:ILE:O	3:I:606:ILE:CG1	2.63	0.45
3:I:844:ALA:O	3:I:867:ARG:HB3	2.17	0.45
3:I:1284:GLU:HA	3:I:1284:GLU:OE1	2.16	0.45
3:I:1457:ASP:O	3:I:1459:LEU:CD1	2.60	0.45
1:L:185:ARG:NE	3:N:692:GLU:CG	2.76	0.45
2:M:64:LEU:HB2	2:M:359:MET:CG	2.47	0.45
2:M:869:VAL:HG22	2:M:870:ILE:N	2.31	0.45
2:M:1019:GLN:O	2:M:1021:LEU:HD12	2.16	0.45
3:N:568:ARG:HA	3:N:568:ARG:HD2	1.83	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:660:LYS:HD2	3:N:694:VAL:HG22	1.98	0.45
3:N:835:SER:O	3:N:836:VAL:C	2.59	0.45
3:N:1087:ARG:HB3	3:N:1237:THR:HG23	1.98	0.45
3:N:1428:ALA:O	3:N:1429:LEU:C	2.60	0.45
4:O:54:LEU:HA	4:O:58:PRO:HG3	1.97	0.45
4:O:63:TRP:O	4:O:64:ALA:C	2.59	0.45
1:A:92:PRO:C	1:A:94:LEU:N	2.74	0.45
1:A:158:ILE:H	1:A:158:ILE:CD1	2.15	0.45
2:C:182:VAL:C	2:C:193:LEU:CD1	2.89	0.45
2:C:333:ILE:N	2:C:333:ILE:HD12	2.31	0.45
2:C:496:ILE:N	2:C:496:ILE:CD1	2.76	0.45
2:C:693:GLU:HG3	2:C:697:ARG:HH21	1.80	0.45
2:C:704:HIS:CE1	2:C:1000:MET:CE	3.00	0.45
3:D:355:VAL:CG1	3:D:385:VAL:HG21	2.45	0.45
3:D:714:GLN:HG3	3:D:736:PHE:CZ	2.51	0.45
3:D:800:LYS:HE3	3:D:800:LYS:HB3	1.81	0.45
3:D:1459:LEU:HD12	3:D:1459:LEU:H	1.79	0.45
4:E:41:GLU:N	4:E:42:PRO:HD2	2.30	0.45
1:F:26:GLU:CG	1:F:194:LYS:HD2	2.42	0.45
1:F:150:TYR:HE1	2:H:696:LYS:HA	1.81	0.45
1:G:67:THR:O	1:G:69:PRO:HD3	2.17	0.45
2:H:127:PHE:O	2:H:133:ASP:HA	2.16	0.45
2:H:177:GLU:CD	2:H:177:GLU:C	2.85	0.45
2:H:496:ILE:HG22	2:H:497:ALA:N	2.31	0.45
2:H:604:ALA:O	2:H:645:VAL:HG12	2.16	0.45
2:H:701:THR:HG23	2:H:832:LYS:HA	1.99	0.45
2:H:985:GLY:HA2	2:H:986:PRO:HD3	1.85	0.45
2:H:1111:ILE:H	2:H:1111:ILE:HG13	1.53	0.45
3:I:134:VAL:CG2	3:I:460:ALA:CB	2.91	0.45
3:I:204:LEU:HB2	3:I:394:LEU:HD21	1.99	0.45
3:I:947:ILE:H	3:I:947:ILE:HG13	1.66	0.45
3:I:1262:LEU:HD23	3:I:1352:ILE:HG13	1.98	0.45
3:I:1273:VAL:O	3:I:1325:LEU:HB2	2.16	0.45
3:I:1317:ASP:OD1	3:I:1318:TYR:N	2.45	0.45
1:K:218:LEU:HD23	1:L:222:LEU:CD2	2.31	0.45
2:M:194:VAL:O	2:M:195:LEU:C	2.59	0.45
2:M:544:THR:C	2:M:546:LEU:N	2.73	0.45
2:M:690:ILE:HG12	2:M:694:LEU:HD12	1.99	0.45
2:M:697:ARG:HD2	2:M:699:PHE:CD1	2.51	0.45
3:N:148:GLU:HB3	3:N:151:GLN:HG2	1.98	0.45
3:N:190:GLU:HG2	3:N:196:VAL:CG2	2.38	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:578:VAL:O	3:N:582:LEU:HG	2.16	0.45
3:N:584:ASN:CG	3:N:590:PRO:HD2	2.40	0.45
3:N:762:GLN:NE2	4:O:20:THR:CG2	2.77	0.45
3:N:880:ILE:HG23	3:N:881:LEU:N	2.31	0.45
3:N:1230:GLY:O	3:N:1231:GLU:C	2.58	0.45
7:Y:133:ARG:O	7:Y:134:VAL:C	2.59	0.45
1:A:46:SER:HB3	2:C:856:GLU:HG2	1.98	0.45
1:B:143:ARG:NH1	1:B:158:ILE:HG23	2.31	0.45
1:B:190:THR:O	1:B:190:THR:HG22	2.17	0.45
2:C:26:TYR:CE2	2:C:30:LEU:HD21	2.52	0.45
2:C:304:LEU:HG	2:C:308:ARG:HH21	1.82	0.45
2:C:449:ILE:CG1	2:C:450:GLY:N	2.80	0.45
2:C:577:PRO:C	2:C:579:VAL:N	2.73	0.45
2:C:640:ARG:HG2	2:C:640:ARG:HH11	1.81	0.45
2:C:1032:PHE:CE1	2:C:1052:MET:HE3	2.51	0.45
2:C:1036:GLU:OE1	2:C:1036:GLU:N	2.39	0.45
3:D:54:LYS:CG	3:D:55:ASP:H	2.29	0.45
3:D:102:ILE:HD13	3:D:102:ILE:C	2.42	0.45
3:D:841:TYR:CE1	3:D:858:VAL:HG12	2.51	0.45
3:D:1213:ARG:CG	3:D:1214:PRO:HD2	2.47	0.45
4:E:38:THR:OG1	4:E:39:VAL:N	2.47	0.45
1:F:67:THR:CG2	2:H:627:ARG:NH2	2.79	0.45
1:F:179:PHE:O	1:F:179:PHE:CD1	2.69	0.45
2:H:338:GLU:O	2:H:341:THR:CG2	2.64	0.45
2:H:374:ASN:ND2	2:H:377:PRO:HD3	2.31	0.45
2:H:758:ARG:HH21	2:H:788:THR:HB	1.82	0.45
2:H:976:ASP:CG	2:H:979:THR:HG22	2.42	0.45
2:H:1061:GLU:OE1	3:I:84:ILE:HD13	2.16	0.45
2:H:1090:LYS:HD3	2:H:1090:LYS:HA	1.72	0.45
2:H:1094:ALA:HB1	3:I:603:LEU:CD1	2.46	0.45
3:I:398:ALA:HB2	3:I:447:VAL:HA	1.99	0.45
3:I:441:ARG:NH1	3:I:445:ARG:NH2	2.65	0.45
3:I:501:ALA:HB1	3:I:1453:ALA:CA	2.46	0.45
3:I:638:LYS:C	3:I:640:HIS:H	2.25	0.45
3:I:796:ARG:HB2	3:I:828:LYS:CD	2.47	0.45
3:I:799:LYS:C	3:I:800:LYS:HD3	2.37	0.45
3:I:806:PHE:HD1	3:I:809:PRO:O	1.97	0.45
3:I:899:LEU:HD12	3:I:900:ILE:HG23	1.98	0.45
3:I:914:LEU:HD23	3:I:914:LEU:O	2.17	0.45
3:I:1415:VAL:O	3:I:1417:TRP:HE3	1.99	0.45
1:K:39:PRO:CG	1:L:39:PRO:HG2	2.43	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:241:LEU:O	2:M:242:LEU:C	2.59	0.45
2:M:409:ARG:HA	2:M:454:SER:HA	1.99	0.45
2:M:433:THR:CG2	2:M:488:ALA:HB1	2.47	0.45
2:M:449:ILE:C	2:M:451:LEU:H	2.24	0.45
2:M:1065:ALA:CB	2:M:1077:PRO:HG2	2.37	0.45
2:M:1104:GLU:OE1	2:M:1104:GLU:HA	2.16	0.45
3:N:119:SER:OG	3:N:123:LEU:HB2	2.16	0.45
3:N:509:PRO:O	3:N:512:MET:HB2	2.17	0.45
3:N:789:LEU:HD12	3:N:911:LEU:HD21	1.98	0.45
3:N:1044:LEU:HD23	3:N:1044:LEU:HA	1.70	0.45
3:N:1352:ILE:O	3:N:1353:GLN:C	2.57	0.45
3:N:1488:ASP:O	3:N:1491:THR:N	2.40	0.45
7:Z:13:GLU:HG2	7:Z:17:GLN:NE2	2.20	0.45
1:A:64:GLU:OE2	1:A:79:ILE:HD11	2.16	0.45
1:A:82:LEU:O	1:A:85:LEU:HB3	2.17	0.45
1:B:19:GLU:O	1:B:200:TRP:HA	2.16	0.45
1:B:73:GLU:HG3	1:B:130:ALA:HA	1.97	0.45
2:C:94:LEU:HD12	2:C:95:TYR:N	2.31	0.45
2:C:340:MET:SD	2:C:340:MET:C	3.00	0.45
2:C:353:ARG:HG3	2:C:353:ARG:HH11	1.82	0.45
2:C:502:PRO:O	2:C:509:ALA:HB3	2.16	0.45
2:C:584:GLU:CD	2:C:584:GLU:H	2.22	0.45
2:C:882:LEU:HD21	3:D:1038:LEU:HD22	1.98	0.45
3:D:353:VAL:HA	3:D:368:VAL:HG22	1.98	0.45
3:D:458:ALA:HB2	3:D:575:GLN:HE22	1.80	0.45
3:D:813:LEU:O	3:D:817:GLU:CB	2.53	0.45
3:D:1053:PHE:CE1	3:D:1072:ILE:HG23	2.51	0.45
3:D:1115:THR:CG2	3:D:1151:ARG:HH21	2.30	0.45
3:D:1441:GLN:NE2	3:D:1446:VAL:HG23	2.32	0.45
1:G:74:ASP:O	1:G:75:VAL:C	2.60	0.45
2:H:48:PHE:CE2	2:H:71:TYR:HB3	2.52	0.45
2:H:1084:SER:C	2:H:1087:VAL:HG12	2.41	0.45
3:I:563:PRO:HA	2:M:223:ASP:CB	2.38	0.45
3:I:835:SER:O	3:I:837:GLY:N	2.50	0.45
3:I:914:LEU:HD23	3:I:914:LEU:C	2.41	0.45
3:I:1312:LEU:HD23	3:I:1312:LEU:HA	1.77	0.45
3:I:1488:ASP:C	3:I:1490:LYS:N	2.75	0.45
1:K:91:ASN:HD22	1:K:93:SER:HB3	1.82	0.45
1:L:28:LEU:O	1:L:192:LEU:CD2	2.64	0.45
1:L:186:LEU:O	1:L:186:LEU:HD23	2.17	0.45
2:M:127:PHE:O	2:M:133:ASP:HA	2.16	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:231:PRO:HB2	2:M:232:GLU:H	1.66	0.45
2:M:274:ARG:CB	2:M:285:LEU:HD13	2.45	0.45
2:M:368:THR:O	2:M:372:LEU:HB2	2.17	0.45
3:N:411:THR:HA	3:N:435:VAL:HG12	1.98	0.45
3:N:695:ILE:CD1	3:N:718:PRO:HB2	2.44	0.45
3:N:1031:ASN:HB3	3:N:1034:GLN:CG	2.46	0.45
3:N:1282:ARG:C	3:N:1283:ILE:HD13	2.42	0.45
4:O:48:MET:HB2	4:O:54:LEU:HB2	1.98	0.45
7:X:5:VAL:HG23	7:X:71:ARG:HH11	1.82	0.45
7:Y:6:LYS:CD	7:Y:75:LEU:HD11	2.45	0.45
1:A:91:ASN:ND2	1:A:93:SER:H	2.14	0.45
1:B:86:VAL:CG2	1:B:202:ASP:OD2	2.64	0.45
2:C:270:GLY:C	2:C:274:ARG:HD3	2.40	0.45
2:C:327:HIS:C	2:C:329:GLY:N	2.73	0.45
3:D:881:LEU:O	3:D:885:ILE:HG12	2.17	0.45
3:D:914:LEU:C	3:D:914:LEU:CD2	2.90	0.45
3:D:957:PRO:CD	3:D:1007:VAL:HG22	2.47	0.45
3:D:1098:LEU:HD23	3:D:1229:ILE:HB	1.99	0.45
3:D:1112:CYS:HB2	3:D:1195:GLN:CG	2.47	0.45
1:G:57:TYR:HB3	1:G:141:GLU:HG2	1.99	0.45
1:G:115:LEU:HD12	1:G:115:LEU:C	2.42	0.45
2:H:140:ILE:HA	2:H:332:ARG:O	2.16	0.45
2:H:174:LEU:CD2	2:H:184:MET:HG3	2.47	0.45
2:H:313:LEU:HG	2:H:314:THR:N	2.29	0.45
2:H:555:ALA:HB2	3:I:1070:TYR:CE2	2.52	0.45
2:H:654:LEU:HD13	2:H:663:ASN:C	2.41	0.45
2:H:1008:ARG:HH12	2:H:1010:THR:HA	1.82	0.45
3:I:540:LEU:HD21	3:I:603:LEU:HD23	1.98	0.45
3:I:631:ILE:O	3:I:631:ILE:HG13	2.15	0.45
3:I:650:LEU:CD1	3:I:657:LEU:HD22	2.47	0.45
3:I:704:ARG:HG3	3:I:705:ALA:N	2.31	0.45
3:I:889:ALA:CB	3:I:930:LEU:HA	2.46	0.45
3:I:907:GLU:HG2	3:I:909:ASN:H	1.82	0.45
3:I:910:SER:OG	3:I:911:LEU:HD12	2.17	0.45
3:I:1167:SER:N	3:I:1170:ASP:OD2	2.46	0.45
3:I:1356:TYR:N	3:I:1356:TYR:HD1	2.15	0.45
1:L:181:VAL:O	1:L:181:VAL:HG12	2.16	0.45
2:M:443:THR:HA	2:M:444:PRO:HD3	1.74	0.45
2:M:458:TYR:N	2:M:458:TYR:CD1	2.85	0.45
2:M:691:SER:O	2:M:693:GLU:N	2.50	0.45
2:M:878:SER:CA	3:N:1034:GLN:HE22	2.24	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:904:PRO:CD	2:M:908:GLY:HA2	2.39	0.45
2:M:1037:VAL:HG13	2:M:1049:LEU:CD1	2.42	0.45
2:M:1060:ILE:HD12	2:M:1060:ILE:HA	1.73	0.45
3:N:19:ARG:HG2	3:N:19:ARG:HH11	1.82	0.45
3:N:62:LYS:HA	3:N:62:LYS:CE	2.45	0.45
3:N:853:VAL:HG22	3:N:858:VAL:CG2	2.45	0.45
3:N:1129:THR:CG2	3:N:1130:ARG:N	2.79	0.45
3:N:1350:GLU:OE2	3:N:1357:ARG:NH1	2.50	0.45
3:N:1492:LEU:O	3:N:1492:LEU:HD13	2.17	0.45
1:B:195:LEU:HD12	1:B:196:THR:N	2.32	0.45
2:C:12:VAL:HG11	2:C:472:ARG:CD	2.46	0.45
2:C:158:TYR:CZ	2:C:313:LEU:HD11	2.52	0.45
2:C:170:PRO:HG2	2:C:258:TYR:CD1	2.52	0.45
2:C:487:THR:O	2:C:488:ALA:C	2.60	0.45
2:C:794:PRO:HG2	2:C:1025:ALA:CA	2.46	0.45
2:C:833:LEU:HD12	2:C:833:LEU:HA	1.72	0.45
3:D:477:LEU:HD11	3:D:495:ARG:HG2	1.99	0.45
3:D:982:PHE:HB2	3:D:983:LEU:CD2	2.44	0.45
3:D:1093:TYR:O	3:D:1096:ARG:HB3	2.17	0.45
3:D:1386:ASP:C	3:D:1386:ASP:OD1	2.59	0.45
3:D:1425:THR:HG22	3:D:1426:LYS:N	2.31	0.45
3:D:1441:GLN:NE2	3:D:1442:ASN:N	2.65	0.45
3:D:1463:LYS:O	3:D:1466:VAL:HB	2.16	0.45
1:F:79:ILE:HD12	1:F:80:LEU:CA	2.47	0.45
2:H:115:LEU:HD13	2:H:375:SER:HA	1.99	0.45
2:H:191:PHE:CZ	2:H:196:LEU:HD12	2.52	0.45
2:H:382:ILE:CD1	2:H:382:ILE:N	2.79	0.45
2:H:467:ILE:H	2:H:467:ILE:CD1	2.23	0.45
2:H:928:LYS:HZ3	2:H:932:GLU:HG2	1.79	0.45
2:H:973:VAL:HG12	2:H:974:LEU:N	2.32	0.45
3:I:111:LYS:HG2	3:I:1448:THR:HG22	1.98	0.45
3:I:501:ALA:HB3	3:I:1452:ILE:CG2	2.44	0.45
3:I:649:ALA:CB	3:I:691:LEU:HD21	2.47	0.45
3:I:939:PHE:O	3:I:943:THR:HG23	2.17	0.45
3:I:1465:ASN:ND2	3:I:1470:ARG:HB3	2.22	0.45
1:K:21:GLY:HA3	1:K:207:PRO:HB3	1.98	0.45
1:K:83:LYS:HD3	1:K:168:ASP:HB2	1.99	0.45
2:M:360:LEU:C	2:M:362:GLY:H	2.23	0.45
2:M:516:ARG:HH11	2:M:521:PRO:HB3	1.82	0.45
2:M:691:SER:HA	2:M:858:MET:HE3	1.99	0.45
2:M:724:ARG:HD3	2:M:734:LEU:HD23	1.99	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:975:TYR:HA	2:M:982:PRO:HA	1.98	0.45
2:M:1006:HIS:O	3:N:627:GLY:HA2	2.17	0.45
2:M:1105:LYS:HZ2	2:M:1107:ASN:HB2	1.81	0.45
3:N:15:PRO:HA	3:N:18:ILE:CD1	2.46	0.45
3:N:628:ARG:HG3	3:N:628:ARG:HH11	1.81	0.45
3:N:639:LEU:CD1	3:N:640:HIS:N	2.80	0.45
3:N:686:GLU:O	3:N:689:ASP:HB2	2.17	0.45
3:N:729:HIS:CD2	3:N:731:LEU:HB2	2.51	0.45
3:N:799:LYS:HE2	3:N:801:GLY:H	1.82	0.45
3:N:909:ASN:O	3:N:912:LYS:HB3	2.16	0.45
3:N:1007:VAL:HG11	3:N:1039:CYS:HB2	1.99	0.45
3:N:1385:GLY:HA2	3:N:1413:THR:HG21	1.99	0.45
3:N:1453:ALA:O	3:N:1454:GLY:C	2.59	0.45
3:N:1459:LEU:HD21	3:N:1468:LEU:HG	1.98	0.45
7:Y:111:ASN:OD1	7:Y:113:LEU:HB2	2.17	0.45
7:Z:76:GLU:O	7:Z:76:GLU:CG	2.65	0.45
1:A:100:LEU:CD2	1:A:102:LYS:HE2	2.47	0.45
1:B:101:LEU:HD11	1:B:113:ASP:HB3	1.99	0.45
1:B:153:ALA:HA	1:B:156:HIS:NE2	2.31	0.45
2:C:165:LEU:HA	2:C:166:PRO:C	2.42	0.45
2:C:170:PRO:HD3	2:C:263:ASP:CG	2.42	0.45
2:C:339:LEU:HD22	2:C:385:PHE:HZ	1.82	0.45
2:C:543:ASN:ND2	2:C:562:SER:HB3	2.32	0.45
2:C:578:VAL:HA	2:C:900:ARG:HG2	1.98	0.45
2:C:588:VAL:HG13	2:C:666:LEU:HB2	1.98	0.45
2:C:969:GLN:HE21	2:C:969:GLN:HB3	1.49	0.45
2:C:1068:GLU:O	2:C:1071:ILE:HB	2.16	0.45
3:D:10:ILE:O	3:D:10:ILE:HG22	2.17	0.45
3:D:129:PHE:CE2	3:D:579:ASP:OD2	2.70	0.45
3:D:632:VAL:C	3:D:740:PHE:CE2	2.95	0.45
3:D:729:HIS:HE1	3:D:731:LEU:HB2	1.77	0.45
3:D:984:THR:CG2	3:D:987:GLU:H	2.30	0.45
3:D:1094:LEU:HG	3:D:1098:LEU:HD13	1.99	0.45
3:D:1440:PHE:O	3:D:1441:GLN:O	2.35	0.45
3:D:1441:GLN:HE21	3:D:1446:VAL:HG23	1.82	0.45
3:D:1496:GLU:HB2	3:D:1499:ARG:NH2	2.31	0.45
4:E:6:ILE:HD11	4:E:10:PHE:CE2	2.52	0.45
2:H:16:PRO:O	2:H:18:LEU:CD1	2.55	0.45
2:H:110:GLU:CD	2:H:369:PRO:HB3	2.41	0.45
2:H:214:TYR:OH	2:H:312:ALA:HA	2.17	0.45
2:H:243:ARG:H	2:H:243:ARG:HG3	1.39	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:300:ASP:CG	2:H:300:ASP:O	2.57	0.45
2:H:383:ARG:CB	2:H:383:ARG:NH1	2.74	0.45
2:H:449:ILE:O	2:H:451:LEU:HG	2.17	0.45
3:I:29:PRO:HB2	3:I:545:ARG:CG	2.46	0.45
3:I:567:ILE:CG2	3:I:571:LYS:HE3	2.43	0.45
3:I:957:PRO:HG2	3:I:1007:VAL:HG22	1.97	0.45
3:I:984:THR:CG2	3:I:987:GLU:HG3	2.46	0.45
3:I:1078:ARG:HA	3:I:1078:ARG:HD3	1.74	0.45
3:I:1097:LYS:O	3:I:1098:LEU:C	2.60	0.45
3:I:1481:VAL:CG1	4:J:21:VAL:HG21	2.47	0.45
1:L:102:LYS:HD2	1:L:139:ASN:ND2	2.32	0.45
2:M:191:PHE:CE2	2:M:238:LEU:HD21	2.52	0.45
2:M:487:THR:O	2:M:488:ALA:C	2.58	0.45
2:M:494:TYR:HB2	2:M:496:ILE:HD11	1.99	0.45
2:M:559:LEU:CD2	2:M:560:MET:N	2.80	0.45
2:M:985:GLY:O	2:M:987:ILE:HD12	2.16	0.45
2:M:1000:MET:H	2:M:1000:MET:HG3	1.48	0.45
3:N:379:ALA:C	3:N:380:GLU:HG3	2.42	0.45
1:A:39:PRO:HA	1:B:35:THR:HG23	1.98	0.44
2:C:35:PRO:C	2:C:37:GLU:N	2.75	0.44
2:C:317:VAL:N	2:C:318:PRO:HD3	2.31	0.44
2:C:333:ILE:HG13	2:C:410:ILE:CD1	2.44	0.44
2:C:564:MET:HE1	2:C:997:LEU:HG	2.00	0.44
2:C:729:LEU:O	2:C:729:LEU:CG	2.65	0.44
2:C:840:ALA:O	2:C:995:MET:HG3	2.17	0.44
2:C:841:ASN:OD1	2:C:845:ASN:N	2.48	0.44
2:C:843:HIS:CD2	2:C:884:GLN:HA	2.52	0.44
2:C:878:SER:O	3:D:1034:GLN:NE2	2.50	0.44
2:C:1090:LYS:CE	3:D:90:MET:SD	3.05	0.44
3:D:407:VAL:HA	3:D:422:ALA:HB2	1.98	0.44
3:D:643:GLY:N	3:D:727:GLN:O	2.49	0.44
3:D:1468:LEU:CD2	3:D:1470:ARG:HB2	2.30	0.44
1:F:168:ASP:CG	2:H:832:LYS:NZ	2.75	0.44
2:H:27:ARG:HH11	2:H:27:ARG:HG3	1.82	0.44
2:H:288:ARG:NH1	2:H:288:ARG:CB	2.71	0.44
2:H:742:VAL:HG12	2:H:743:VAL:H	1.81	0.44
2:H:1092:LEU:CB	2:H:1099:VAL:HG21	2.47	0.44
3:I:646:LYS:HG3	3:I:647:ARG:N	2.32	0.44
3:I:800:LYS:HD2	3:I:800:LYS:HA	1.59	0.44
3:I:1093:TYR:HA	3:I:1096:ARG:CD	2.45	0.44
3:I:1287:GLU:C	3:I:1289:LYS:N	2.74	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:215:VAL:CG2	1:L:216:GLU:N	2.80	0.44
2:M:129:ILE:N	2:M:129:ILE:CD1	2.80	0.44
2:M:205:GLU:H	2:M:205:GLU:HG3	1.42	0.44
2:M:424:GLY:O	2:M:425:PHE:C	2.59	0.44
2:M:625:LEU:HD11	2:M:641:PRO:HG3	1.99	0.44
2:M:654:LEU:H	2:M:654:LEU:CD2	2.26	0.44
2:M:1063:ARG:NH1	2:M:1067:TYR:HB2	2.33	0.44
3:N:115:LEU:C	3:N:115:LEU:CD2	2.90	0.44
3:N:736:PHE:O	3:N:737:ASN:C	2.59	0.44
3:N:792:ILE:HG13	3:N:860:LEU:HD13	2.00	0.44
3:N:864:VAL:CG1	3:N:865:THR:N	2.60	0.44
3:N:1274:ILE:HD11	3:N:1334:GLN:HE21	1.82	0.44
4:O:33:HIS:CD2	4:O:89:MET:HE2	2.52	0.44
7:X:64:SER:O	7:X:68:ILE:HG12	2.17	0.44
7:Z:83:ILE:HG12	7:Z:89:VAL:CG2	2.47	0.44
1:A:217:ILE:O	1:A:221:HIS:CD2	2.70	0.44
2:C:73:LEU:CD2	2:C:94:LEU:HB2	2.47	0.44
2:C:96:ALA:O	2:C:98:LEU:CD1	2.66	0.44
2:C:136:ILE:HG13	2:C:392:SER:OG	2.18	0.44
2:C:186:VAL:O	2:C:186:VAL:HG23	2.16	0.44
2:C:207:LEU:CD2	2:C:211:LEU:HD23	2.47	0.44
2:C:351:LEU:HD12	2:C:374:ASN:ND2	2.32	0.44
2:C:899:GLN:HG3	2:C:901:TYR:CZ	2.52	0.44
2:C:922:PHE:CE1	2:C:964:LYS:HA	2.53	0.44
2:C:1083:GLU:OE2	2:C:1086:ARG:HD2	2.17	0.44
2:C:1100:GLN:HA	2:C:1100:GLN:HE21	1.81	0.44
3:D:63:TYR:HB3	3:D:68:PHE:CE1	2.52	0.44
3:D:162:ARG:CG	3:D:452:ILE:HG21	2.47	0.44
3:D:421:LEU:HD22	3:D:444:VAL:CG1	2.46	0.44
3:D:790:TYR:C	3:D:790:TYR:CD1	2.95	0.44
3:D:851:LEU:N	3:D:851:LEU:CD2	2.75	0.44
3:D:1464:GLU:H	3:D:1464:GLU:HG2	1.64	0.44
1:F:42:ARG:CZ	2:H:857:ASP:HB3	2.44	0.44
1:G:78:ILE:O	1:G:82:LEU:HG	2.17	0.44
1:G:82:LEU:O	1:G:85:LEU:HB3	2.17	0.44
1:G:99:LEU:CB	1:G:142:VAL:HG23	2.47	0.44
2:H:36:PRO:CG	2:H:70:GLU:HB3	2.48	0.44
2:H:181:VAL:CG1	2:H:182:VAL:N	2.80	0.44
2:H:443:THR:HA	2:H:444:PRO:HD3	1.80	0.44
2:H:602:GLU:HA	2:H:647:GLN:O	2.18	0.44
2:H:686:ASP:O	2:H:688:ILE:HD12	2.18	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:756:VAL:O	2:H:789:SER:HB3	2.17	0.44
2:H:882:LEU:O	2:H:883:GLY:C	2.61	0.44
3:I:567:ILE:O	3:I:571:LYS:HG2	2.17	0.44
3:I:907:GLU:CD	3:I:909:ASN:HD22	2.25	0.44
3:I:1301:LYS:HG3	3:I:1303:TYR:CZ	2.50	0.44
1:L:77:GLU:CB	3:N:872:ARG:HH21	2.27	0.44
2:M:274:ARG:HG2	2:M:285:LEU:HB3	1.99	0.44
2:M:548:PRO:HG2	2:M:842:ARG:NH2	2.32	0.44
2:M:572:ILE:HG12	2:M:701:THR:O	2.17	0.44
2:M:636:ALA:HB2	2:M:703:ILE:HB	2.00	0.44
2:M:673:LEU:HD22	2:M:867:VAL:HG12	1.99	0.44
2:M:937:ASP:OD2	2:M:938:LYS:N	2.50	0.44
2:M:1036:GLU:O	2:M:1039:ALA:HB3	2.18	0.44
2:M:1097:LEU:HG	3:N:10:ILE:HD13	1.99	0.44
3:N:73:CYS:HB3	3:N:76:CYS:O	2.17	0.44
3:N:729:HIS:HE2	3:N:731:LEU:HB2	1.81	0.44
3:N:827:ILE:HA	3:N:836:VAL:HG13	1.98	0.44
3:N:829:VAL:O	3:N:835:SER:HB3	2.16	0.44
3:N:996:TRP:CG	3:N:1056:PRO:HG2	2.50	0.44
3:N:1254:GLN:OE1	3:N:1257:PRO:HG2	2.17	0.44
4:O:59:ASN:O	4:O:63:TRP:CD1	2.70	0.44
7:X:89:VAL:HG12	7:X:90:GLU:N	2.31	0.44
7:X:115:THR:CB	7:X:116:PRO:CD	2.95	0.44
1:B:56:VAL:CG2	1:B:142:VAL:HG12	2.45	0.44
2:C:342:ASP:O	2:C:345:ARG:HG2	2.17	0.44
2:C:775:ARG:NH1	2:C:782:ALA:HB1	2.33	0.44
2:C:1050:GLN:NE2	3:D:1469:GLY:O	2.50	0.44
3:D:433:GLY:CA	3:D:447:VAL:O	2.65	0.44
3:D:835:SER:O	3:D:838:ARG:HD2	2.17	0.44
3:D:1093:TYR:CZ	3:D:1097:LYS:HG3	2.50	0.44
3:D:1107:VAL:HB	3:D:1219:GLU:H	1.82	0.44
3:D:1153:VAL:HG12	3:D:1155:VAL:CG2	2.43	0.44
3:D:1221:VAL:HG12	3:D:1370:ILE:HD13	2.00	0.44
3:D:1288:GLU:O	3:D:1307:LYS:HG2	2.18	0.44
3:D:1434:TRP:O	3:D:1435:LEU:C	2.60	0.44
3:D:1495:ILE:HG13	4:E:80:VAL:HG13	1.99	0.44
1:F:20:TYR:OH	1:F:198:ARG:CD	2.64	0.44
2:H:12:VAL:HG11	2:H:534:VAL:HG13	1.99	0.44
2:H:111:ASP:O	2:H:112:GLU:CG	2.66	0.44
2:H:217:LEU:H	2:H:217:LEU:HG	1.42	0.44
2:H:344:PHE:CE2	2:H:378:LEU:HD21	2.52	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:447:ALA:O	2:H:448:ASN:CB	2.57	0.44
2:H:483:VAL:HG12	2:H:484:VAL:N	2.32	0.44
2:H:557:ARG:HG3	2:H:557:ARG:NH1	2.31	0.44
2:H:913:GLU:O	2:H:916:GLU:HB3	2.17	0.44
3:I:87:ARG:O	3:I:88:TYR:HD2	2.00	0.44
3:I:131:LYS:CE	3:I:456:MET:SD	2.96	0.44
3:I:500:ARG:O	3:I:501:ALA:C	2.60	0.44
3:I:630:VAL:HG12	3:I:631:ILE:N	2.31	0.44
3:I:676:MET:SD	3:I:684:LYS:HE3	2.57	0.44
3:I:827:ILE:O	3:I:828:LYS:HG3	2.18	0.44
3:I:972:LEU:O	3:I:976:GLN:HG3	2.17	0.44
3:I:1146:GLY:HA2	3:I:1207:TYR:CD1	2.52	0.44
3:I:1263:PHE:CE1	3:I:1352:ILE:CD1	3.01	0.44
3:I:1264:GLU:HG2	3:I:1266:ARG:NH2	2.32	0.44
1:K:99:LEU:HD21	1:K:122:ILE:HD11	1.98	0.44
1:K:184:THR:HG22	1:K:185:ARG:H	1.82	0.44
1:L:73:GLU:OE1	1:L:131:THR:N	2.50	0.44
1:L:86:VAL:O	1:L:86:VAL:CG1	2.62	0.44
2:M:195:LEU:O	2:M:199:VAL:HG23	2.17	0.44
2:M:328:LEU:HD22	2:M:437:ARG:HD3	1.99	0.44
2:M:470:PRO:HD3	2:M:485:TYR:HE2	1.82	0.44
2:M:596:TYR:N	2:M:596:TYR:CD1	2.84	0.44
3:N:36:THR:C	3:N:38:LYS:N	2.75	0.44
3:N:844:ALA:O	3:N:867:ARG:HB3	2.18	0.44
3:N:935:LYS:HE2	3:N:935:LYS:HB3	1.85	0.44
3:N:1263:PHE:C	3:N:1424:VAL:HG12	2.42	0.44
4:O:27:ALA:O	4:O:30:LEU:HB2	2.17	0.44
2:C:354:GLY:O	2:C:358:ARG:HD3	2.17	0.44
2:C:357:GLU:O	2:C:360:LEU:HG	2.18	0.44
2:C:903:SER:OG	2:C:908:GLY:HA3	2.18	0.44
2:C:972:VAL:HG23	2:C:973:VAL:O	2.16	0.44
3:D:400:VAL:O	3:D:400:VAL:CG1	2.65	0.44
3:D:704:ARG:HH12	3:D:743:ASP:HB3	1.83	0.44
3:D:799:LYS:HD3	3:D:826:PRO:HG2	2.00	0.44
3:D:1109:GLU:HG2	3:D:1202:GLN:N	2.32	0.44
3:D:1197:ARG:CG	3:D:1198:TYR:H	2.31	0.44
3:D:1207:TYR:CE1	3:D:1212:ALA:O	2.71	0.44
3:D:1273:VAL:HG21	3:D:1305:LEU:HD21	1.99	0.44
3:D:1353:GLN:HB3	3:D:1357:ARG:NE	2.33	0.44
3:D:1370:ILE:HG13	3:D:1370:ILE:H	1.51	0.44
1:G:138:LEU:HD23	1:G:138:LEU:O	2.18	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:39:ARG:O	2:H:40:GLU:C	2.60	0.44
2:H:523:ILE:C	2:H:523:ILE:CD1	2.90	0.44
2:H:863:ASP:OD1	2:H:865:THR:HG22	2.17	0.44
2:H:911:GLU:HB3	2:H:912:PRO:HD3	1.99	0.44
2:H:926:PHE:O	2:H:929:ARG:HB2	2.16	0.44
3:I:93:ILE:HG22	3:I:551:ASN:HD22	1.82	0.44
3:I:911:LEU:O	3:I:912:LYS:C	2.61	0.44
3:I:1055:VAL:HA	3:I:1056:PRO:HD3	1.72	0.44
3:I:1264:GLU:O	3:I:1265:ALA:C	2.60	0.44
3:I:1264:GLU:OE2	3:I:1423:GLY:HA3	2.17	0.44
4:J:39:VAL:HG22	4:J:67:GLU:OE2	2.18	0.44
1:K:58:ILE:HB	1:K:61:VAL:HB	1.98	0.44
2:M:267:TYR:CD1	2:M:272:ALA:HB1	2.52	0.44
2:M:412:ALA:HB1	2:M:419:THR:HG21	1.99	0.44
2:M:500:ASN:N	2:M:500:ASN:ND2	2.62	0.44
2:M:553:ASP:OD1	2:M:843:HIS:ND1	2.50	0.44
2:M:625:LEU:CD1	2:M:641:PRO:HG3	2.47	0.44
3:N:31:THR:OG1	3:N:32:ILE:N	2.49	0.44
3:N:827:ILE:C	3:N:828:LYS:CG	2.88	0.44
3:N:937:TYR:O	3:N:938:GLY:C	2.60	0.44
3:N:1021:TYR:O	3:N:1022:VAL:C	2.61	0.44
7:Y:26:LEU:CD1	7:Y:55:LYS:HG3	2.47	0.44
2:C:86:LYS:NZ	2:C:811:PRO:HB2	2.33	0.44
2:C:89:THR:HB	2:C:129:ILE:O	2.16	0.44
2:C:221:LEU:O	2:C:223:ASP:N	2.50	0.44
2:C:304:LEU:HD23	2:C:304:LEU:H	1.82	0.44
2:C:1060:ILE:HG23	2:C:1061:GLU:H	1.83	0.44
3:D:30:GLU:HB3	3:D:40:GLU:CB	2.46	0.44
3:D:116:LEU:HD23	3:D:116:LEU:C	2.42	0.44
3:D:172:PRO:HG2	3:D:175:VAL:CG2	2.47	0.44
3:D:829:VAL:O	3:D:835:SER:HB3	2.18	0.44
3:D:911:LEU:O	3:D:912:LYS:C	2.60	0.44
3:D:1037:GLN:OE1	3:D:1042:ARG:NH1	2.50	0.44
3:D:1144:LEU:HD13	3:D:1174:LEU:CD1	2.47	0.44
3:D:1329:ALA:CA	3:D:1330:ILE:HD12	2.47	0.44
1:F:58:ILE:CG2	1:F:61:VAL:HG23	2.48	0.44
1:G:198:ARG:C	1:G:199:ILE:HD12	2.43	0.44
2:H:52:PHE:CE1	2:H:67:ASP:OD1	2.70	0.44
2:H:241:LEU:O	2:H:242:LEU:C	2.59	0.44
2:H:371:LYS:C	2:H:372:LEU:HD12	2.42	0.44
2:H:442:GLU:HG2	2:H:454:SER:OG	2.17	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:487:THR:O	2:H:488:ALA:C	2.61	0.44
2:H:925:TYR:CD2	2:H:925:TYR:C	2.94	0.44
2:H:1052:MET:HA	2:H:1056:LYS:CD	2.48	0.44
3:I:171:LEU:HD21	3:I:192:ALA:HB3	1.98	0.44
3:I:701:LEU:N	3:I:701:LEU:CD1	2.76	0.44
3:I:762:GLN:NE2	4:J:20:THR:OG1	2.50	0.44
3:I:804:LEU:HD22	3:I:829:VAL:CB	2.43	0.44
3:I:879:ARG:HH21	3:I:903:ASP:C	2.25	0.44
4:J:13:VAL:CG1	4:J:18:ARG:HB3	2.46	0.44
1:K:18:ARG:O	1:K:207:PRO:HD3	2.17	0.44
1:K:25:LEU:HD23	1:K:25:LEU:C	2.43	0.44
1:K:54:THR:HG22	1:K:158:ILE:CG1	2.39	0.44
2:M:80:GLN:H	2:M:80:GLN:HG2	1.58	0.44
2:M:483:VAL:HG12	2:M:484:VAL:N	2.32	0.44
2:M:556:ASN:OD1	7:Z:45:ASP:HA	2.17	0.44
2:M:1090:LYS:HD3	2:M:1093:GLN:HG3	1.98	0.44
2:M:1105:LYS:HZ3	2:M:1107:ASN:HB2	1.82	0.44
3:N:28:LYS:HB2	3:N:41:ARG:CZ	2.48	0.44
3:N:41:ARG:O	3:N:46:ASP:HB2	2.18	0.44
3:N:362:GLU:O	3:N:379:ALA:HB1	2.18	0.44
3:N:501:ALA:CB	3:N:1453:ALA:HB2	2.47	0.44
3:N:683:ILE:HG21	3:N:688:TRP:CZ2	2.51	0.44
3:N:996:TRP:O	3:N:999:THR:N	2.50	0.44
3:N:1118:ILE:HD11	3:N:1193:THR:HG23	1.99	0.44
3:N:1120:VAL:HG23	3:N:1188:VAL:HG11	2.00	0.44
3:N:1128:VAL:O	3:N:1128:VAL:HG12	2.17	0.44
3:N:1159:ARG:HH11	3:N:1159:ARG:CG	2.30	0.44
3:N:1347:TYR:C	3:N:1347:TYR:CD2	2.95	0.44
3:N:1372:VAL:HG23	3:N:1375:MET:CE	2.47	0.44
3:N:1389:LEU:H	3:N:1389:LEU:HG	1.29	0.44
4:O:54:LEU:CB	4:O:58:PRO:HG2	2.46	0.44
7:Z:43:TYR:HB3	7:Z:44:ASP:H	1.50	0.44
1:A:161:ARG:HB2	1:A:161:ARG:HH11	1.79	0.44
1:B:165:ILE:HA	1:B:166:PRO:HD3	1.69	0.44
2:C:26:TYR:HA	2:C:29:ALA:HB3	2.00	0.44
2:C:135:VAL:HG21	2:C:406:HIS:HD2	1.82	0.44
2:C:180:GLY:C	2:C:181:VAL:CG2	2.90	0.44
2:C:666:LEU:CG	2:C:668:LEU:HD11	2.36	0.44
2:C:670:GLN:HB2	2:C:700:TYR:HE1	1.82	0.44
2:C:886:LEU:HA	2:C:886:LEU:HD12	1.45	0.44
2:C:1001:VAL:HG13	2:C:1004:LYS:CB	2.48	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:79:GLU:C	3:D:80:VAL:HG22	2.43	0.44
3:D:392:SER:O	3:D:393:ILE:HD12	2.16	0.44
3:D:470:LEU:HD23	3:D:470:LEU:H	1.83	0.44
3:D:481:MET:HE2	3:D:493:ARG:CB	2.47	0.44
3:D:581:LEU:HD23	3:D:581:LEU:N	2.32	0.44
3:D:765:SER:C	3:D:767:HIS:H	2.26	0.44
3:D:791:TYR:CD1	3:D:1022:VAL:HG11	2.53	0.44
3:D:800:LYS:CE	3:D:804:LEU:HD22	2.48	0.44
3:D:1094:LEU:HD11	3:D:1098:LEU:HD11	2.00	0.44
3:D:1137:ARG:NH2	3:D:1172:HIS:NE2	2.65	0.44
3:D:1262:LEU:HB3	3:D:1352:ILE:HD11	1.99	0.44
1:G:111:ALA:O	1:G:114:PHE:HD1	2.00	0.44
2:H:26:TYR:CE2	2:H:30:LEU:HD21	2.53	0.44
3:I:511:TRP:C	3:I:513:ILE:N	2.75	0.44
3:I:633:VAL:O	3:I:635:PRO:HD3	2.18	0.44
3:I:789:LEU:HD13	3:I:911:LEU:HD21	1.99	0.44
3:I:1377:LYS:HE2	3:I:1378:TYR:CZ	2.53	0.44
1:K:45:LEU:N	1:K:45:LEU:CD1	2.81	0.44
2:M:181:VAL:HG12	2:M:182:VAL:C	2.43	0.44
2:M:717:LEU:HD13	2:M:763:GLY:O	2.18	0.44
2:M:723:THR:OG1	2:M:724:ARG:N	2.51	0.44
2:M:1021:LEU:HD12	2:M:1021:LEU:H	1.82	0.44
2:M:1089:VAL:O	2:M:1093:GLN:HG2	2.17	0.44
3:N:148:GLU:CB	3:N:151:GLN:HB2	2.48	0.44
3:N:156:GLU:HB2	3:N:157:GLU:OE2	2.17	0.44
3:N:638:LYS:C	3:N:640:HIS:H	2.25	0.44
3:N:646:LYS:HG3	3:N:647:ARG:HG3	1.99	0.44
3:N:841:TYR:HB3	3:N:843:PHE:CZ	2.53	0.44
3:N:911:LEU:O	3:N:914:LEU:HB3	2.17	0.44
3:N:996:TRP:C	3:N:999:THR:HG22	2.43	0.44
3:N:1459:LEU:HD22	3:N:1470:ARG:NH2	2.32	0.44
7:Z:83:ILE:HD13	7:Z:89:VAL:HG21	1.98	0.44
1:A:45:LEU:HD11	1:A:177:VAL:HB	2.00	0.44
1:A:210:ALA:O	1:A:211:LEU:C	2.60	0.44
1:B:83:LYS:NZ	3:D:842:VAL:O	2.36	0.44
1:B:99:LEU:HB2	1:B:142:VAL:HG23	2.00	0.44
1:B:171:PHE:O	1:B:172:SER:C	2.60	0.44
2:C:263:ASP:HB2	2:C:264:PRO:HD3	2.00	0.44
2:C:270:GLY:HA2	2:C:274:ARG:HD2	2.00	0.44
2:C:335:THR:O	2:C:336:VAL:C	2.60	0.44
2:C:428:ARG:O	3:D:1078:ARG:NH1	2.51	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1032:PHE:CD1	2:C:1052:MET:HG2	2.52	0.44
3:D:54:LYS:HG2	3:D:57:GLU:CD	2.42	0.44
3:D:479:GLU:O	3:D:483:HIS:ND1	2.44	0.44
3:D:511:TRP:C	3:D:513:ILE:N	2.73	0.44
3:D:833:GLU:O	3:D:834:THR:HG23	2.18	0.44
3:D:866:VAL:HG11	3:D:880:ILE:HD11	1.99	0.44
3:D:989:TYR:CD2	3:D:993:LEU:HD11	2.53	0.44
3:D:1209:LEU:HD12	3:D:1216:SER:H	1.82	0.44
3:D:1348:LEU:N	3:D:1348:LEU:CD1	2.80	0.44
1:F:73:GLU:HB2	1:F:78:ILE:HD11	2.00	0.44
1:G:56:VAL:CG2	1:G:142:VAL:HG12	2.29	0.44
1:G:184:THR:CG2	1:G:194:LYS:HB2	2.48	0.44
1:G:222:LEU:HD23	1:G:222:LEU:HA	1.87	0.44
2:H:12:VAL:HG22	2:H:13:ILE:HG22	1.95	0.44
2:H:145:GLY:H	2:H:163:ILE:HG23	1.83	0.44
2:H:207:LEU:O	2:H:211:LEU:HB3	2.18	0.44
2:H:601:GLY:HA2	2:H:616:GLU:HG2	1.98	0.44
2:H:682:TYR:O	2:H:687:ALA:HB1	2.18	0.44
2:H:931:GLY:O	2:H:932:GLU:C	2.61	0.44
2:H:1038:TRP:O	2:H:1039:ALA:C	2.61	0.44
2:H:1094:ALA:HB1	3:I:603:LEU:HD11	2.00	0.44
3:I:639:LEU:CD1	3:I:640:HIS:N	2.81	0.44
3:I:820:GLU:HG2	3:I:836:VAL:HG11	1.99	0.44
3:I:827:ILE:O	3:I:827:ILE:CG2	2.56	0.44
3:I:857:ILE:HD12	3:I:857:ILE:H	1.70	0.44
3:I:1197:ARG:HD3	3:I:1198:TYR:CD1	2.53	0.44
3:I:1197:ARG:CG	3:I:1198:TYR:H	2.31	0.44
3:I:1312:LEU:HG	3:I:1327:ARG:HD3	2.00	0.44
4:J:13:VAL:HG21	4:J:19:LEU:HB2	2.00	0.44
2:M:44:ILE:HD13	2:M:344:PHE:CD1	2.53	0.44
2:M:110:GLU:OE2	2:M:112:GLU:OE2	2.35	0.44
2:M:332:ARG:HH22	2:M:338:GLU:CD	2.21	0.44
2:M:364:GLU:C	2:M:366:SER:H	2.25	0.44
2:M:552:HIS:CD2	2:M:886:LEU:HD22	2.53	0.44
2:M:748:GLU:O	2:M:748:GLU:HG2	2.17	0.44
2:M:762:LYS:HE3	2:M:786:LYS:HE2	2.00	0.44
2:M:836:GLY:CA	2:M:1001:VAL:HG21	2.36	0.44
2:M:865:THR:HA	2:M:866:PRO:HD3	1.82	0.44
2:M:1019:GLN:HB2	2:M:1021:LEU:CD1	2.46	0.44
3:N:52:PRO:HG3	3:N:78:VAL:CG1	2.45	0.44
3:N:405:ASP:N	3:N:423:ASP:OD1	2.40	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1149:LEU:CG	3:N:1166:LEU:HD22	2.46	0.44
3:N:1189:ARG:HD2	3:N:1204:CYS:SG	2.58	0.44
3:N:1278:ASP:HB3	3:N:1321:ALA:N	2.32	0.44
3:N:1288:GLU:O	3:N:1307:LYS:HG2	2.18	0.44
3:N:1452:ILE:HD12	3:N:1452:ILE:N	2.32	0.44
7:Z:146:ARG:HE	7:Z:146:ARG:HB3	1.50	0.44
1:A:150:TYR:CD1	2:C:696:LYS:HG2	2.53	0.44
1:A:206:THR:O	1:A:207:PRO:C	2.61	0.44
2:C:113:VAL:CG1	2:C:373:VAL:HG11	2.48	0.44
2:C:145:GLY:H	2:C:163:ILE:HG23	1.83	0.44
2:C:249:LYS:C	2:C:250:ARG:NH1	2.76	0.44
2:C:544:THR:O	2:C:546:LEU:N	2.50	0.44
3:D:148:GLU:OE2	3:D:148:GLU:N	2.50	0.44
3:D:160:GLU:OE1	3:D:161:LEU:CD1	2.58	0.44
3:D:465:LEU:CD1	3:D:509:PRO:O	2.66	0.44
3:D:522:PRO:HA	3:D:525:ARG:NH1	2.33	0.44
3:D:700:VAL:HB	3:D:748:HIS:O	2.18	0.44
3:D:1209:LEU:HD21	4:E:16:LYS:HZ1	1.82	0.44
4:E:53:GLY:C	4:E:55:PHE:H	2.24	0.44
1:G:30:ARG:NH1	1:G:30:ARG:HB3	2.32	0.44
1:G:171:PHE:O	1:G:172:SER:C	2.61	0.44
1:G:227:ASN:HA	1:G:228:PRO:HD3	1.80	0.44
2:H:159:ILE:HG22	2:H:175:GLU:HG3	1.99	0.44
2:H:196:LEU:C	2:H:199:VAL:HB	2.42	0.44
2:H:327:HIS:C	2:H:329:GLY:H	2.25	0.44
2:H:468:ARG:HD3	2:H:485:TYR:O	2.17	0.44
2:H:668:LEU:N	2:H:668:LEU:CD1	2.77	0.44
2:H:700:TYR:HD2	2:H:996:LYS:HB2	1.83	0.44
2:H:1101:THR:HG21	2:H:1111:ILE:HG23	1.96	0.44
3:I:206:ARG:HH11	3:I:206:ARG:HG3	1.83	0.44
3:I:490:ALA:O	3:I:493:ARG:HG3	2.17	0.44
3:I:650:LEU:HD12	3:I:650:LEU:HA	1.60	0.44
3:I:784:ASP:HB3	3:I:939:PHE:HE2	1.81	0.44
3:I:895:VAL:O	3:I:899:LEU:HG	2.18	0.44
3:I:1095:THR:OG1	3:I:1230:GLY:HA3	2.18	0.44
3:I:1194:CYS:HB3	3:I:1373:ARG:HH12	1.83	0.44
3:I:1207:TYR:CD2	3:I:1212:ALA:O	2.71	0.44
3:I:1313:VAL:HG21	3:I:1319:VAL:HG11	1.99	0.44
3:I:1352:ILE:O	3:I:1353:GLN:C	2.61	0.44
4:J:27:ALA:O	4:J:30:LEU:HB2	2.17	0.44
2:M:26:TYR:HE1	2:M:340:MET:HE3	1.76	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:64:LEU:HB2	2:M:359:MET:HE3	1.98	0.44
2:M:172:ILE:N	2:M:172:ILE:CD1	2.72	0.44
2:M:205:GLU:HB3	2:M:209:ARG:NH1	2.31	0.44
2:M:389:SER:C	2:M:391:LEU:N	2.75	0.44
2:M:630:ARG:HD2	2:M:634:GLY:HA2	1.98	0.44
2:M:688:ILE:HD12	2:M:688:ILE:N	2.32	0.44
2:M:691:SER:C	2:M:693:GLU:N	2.73	0.44
2:M:722:ILE:HD13	2:M:741:GLY:HA3	2.00	0.44
2:M:860:HIS:HA	2:M:866:PRO:HA	1.99	0.44
2:M:882:LEU:O	2:M:883:GLY:C	2.61	0.44
2:M:1088:LEU:HD23	2:M:1092:LEU:CD1	2.48	0.44
3:N:12:LEU:HD21	3:N:104:PHE:CE1	2.52	0.44
3:N:402:PRO:CA	3:N:443:VAL:HG23	2.48	0.44
3:N:500:ARG:O	3:N:501:ALA:C	2.59	0.44
3:N:765:SER:C	3:N:767:HIS:N	2.75	0.44
3:N:843:PHE:HB2	3:N:866:VAL:HG22	2.00	0.44
3:N:1031:ASN:HD21	7:Z:32:ILE:CG2	2.31	0.44
3:N:1124:GLN:HA	3:N:1125:PRO:HD3	1.85	0.44
3:N:1205:TYR:CE1	3:N:1221:VAL:CG1	3.00	0.44
3:N:1254:GLN:O	3:N:1255:GLY:O	2.35	0.44
7:X:144:LYS:HB2	7:X:144:LYS:HE3	1.74	0.44
7:Z:48:LEU:HA	7:Z:48:LEU:HD13	1.77	0.44
2:C:54:ILE:CD1	2:C:355:VAL:CG1	2.96	0.44
2:C:294:GLU:O	2:C:295:ASP:HB2	2.17	0.44
2:C:523:ILE:HG23	2:C:523:ILE:O	2.18	0.44
2:C:559:LEU:HD23	2:C:560:MET:N	2.32	0.44
2:C:630:ARG:HH11	2:C:630:ARG:CG	2.31	0.44
2:C:952:LEU:CD2	2:C:952:LEU:N	2.81	0.44
3:D:177:ALA:N	3:D:388:HIS:O	2.48	0.44
3:D:210:ARG:N	3:D:389:GLU:HB2	2.32	0.44
3:D:481:MET:SD	3:D:1388:ARG:CG	3.04	0.44
3:D:629:SER:OG	3:D:630:VAL:N	2.47	0.44
3:D:649:ALA:O	3:D:650:LEU:C	2.61	0.44
3:D:1256:LEU:O	3:D:1256:LEU:HD12	2.18	0.44
3:D:1346:ARG:HA	3:D:1346:ARG:HD2	1.84	0.44
3:D:1484:THR:HG21	4:E:18:ARG:HD2	2.00	0.44
2:H:89:THR:CA	2:H:129:ILE:O	2.59	0.44
2:H:95:TYR:N	2:H:95:TYR:CD1	2.85	0.44
2:H:139:GLN:NE2	2:H:415:PRO:HD3	2.33	0.44
2:H:158:TYR:CZ	2:H:313:LEU:HD11	2.53	0.44
2:H:603:VAL:HB	2:H:646:GLY:H	1.83	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:816:LYS:O	2:H:819:VAL:HB	2.17	0.44
2:H:878:SER:CA	3:I:1034:GLN:HE22	2.29	0.44
2:H:896:PHE:CE2	2:H:925:TYR:CB	3.01	0.44
2:H:1005:MET:HE1	3:I:724:GLN:CB	2.47	0.44
2:H:1006:HIS:O	3:I:627:GLY:HA2	2.18	0.44
3:I:61:GLY:HA3	3:I:64:LYS:NZ	2.32	0.44
3:I:133:ILE:CG2	3:I:134:VAL:N	2.80	0.44
3:I:792:ILE:HG13	3:I:860:LEU:HD13	2.00	0.44
3:I:987:GLU:OE1	7:Y:120:SER:CB	2.66	0.44
3:I:1066:THR:HG22	3:I:1069:GLU:CB	2.45	0.44
3:I:1364:HIS:ND1	3:I:1365:ASP:N	2.65	0.44
1:K:26:GLU:CB	1:K:27:PRO:HA	2.48	0.44
1:K:31:GLY:O	1:K:34:VAL:HG12	2.18	0.44
1:K:99:LEU:CD2	1:K:122:ILE:HD11	2.48	0.44
1:K:175:ARG:HE	1:K:176:ARG:HB3	1.81	0.44
2:M:250:ARG:C	2:M:252:LYS:H	2.17	0.44
2:M:368:THR:CB	2:M:369:PRO:CD	2.91	0.44
2:M:463:GLU:OE2	2:M:463:GLU:HA	2.18	0.44
2:M:511:GLU:O	2:M:526:PRO:HD3	2.17	0.44
2:M:516:ARG:CG	3:N:1068:LEU:HD13	2.47	0.44
2:M:560:MET:O	2:M:564:MET:HG2	2.17	0.44
2:M:704:HIS:CB	2:M:831:ARG:HE	2.30	0.44
2:M:850:ALA:HA	3:N:632:VAL:HG11	2.00	0.44
2:M:873:PRO:HB3	3:N:949:ILE:CD1	2.47	0.44
2:M:1086:ARG:HG3	2:M:1111:ILE:HD12	1.99	0.44
3:N:882:PHE:O	3:N:886:VAL:HG23	2.18	0.44
3:N:907:GLU:HG2	3:N:909:ASN:H	1.82	0.44
3:N:1098:LEU:HD21	3:N:1229:ILE:CB	2.45	0.44
3:N:1101:VAL:CG1	3:N:1424:VAL:O	2.66	0.44
3:N:1256:LEU:O	3:N:1259:VAL:N	2.51	0.44
3:N:1488:ASP:O	3:N:1489:GLN:C	2.61	0.44
1:A:19:GLU:N	1:A:19:GLU:OE1	2.50	0.43
2:C:494:TYR:CD1	2:C:494:TYR:N	2.86	0.43
2:C:620:LEU:HD12	2:C:620:LEU:O	2.18	0.43
3:D:149:LYS:HE3	3:D:149:LYS:N	2.33	0.43
3:D:434:ARG:HB3	3:D:447:VAL:HG23	2.00	0.43
3:D:508:ARG:HB3	3:D:509:PRO:HD2	1.99	0.43
3:D:520:LEU:HD21	3:D:524:LEU:HB3	2.00	0.43
3:D:633:VAL:O	3:D:635:PRO:HD3	2.18	0.43
3:D:875:THR:CG2	3:D:879:ARG:CB	2.95	0.43
3:D:926:LYS:O	3:D:929:ARG:HB2	2.18	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:959:GLU:CD	3:D:959:GLU:H	2.26	0.43
3:D:996:TRP:O	3:D:999:THR:N	2.51	0.43
3:D:1047:LYS:NZ	3:D:1053:PHE:HA	2.32	0.43
3:D:1161:GLU:CG	3:D:1164:ARG:HB2	2.46	0.43
3:D:1319:VAL:HG23	3:D:1319:VAL:O	2.18	0.43
4:E:59:ASN:CG	4:E:62:THR:OG1	2.61	0.43
4:E:63:TRP:O	4:E:64:ALA:C	2.59	0.43
1:F:49:PRO:CA	1:F:148:VAL:HG22	2.48	0.43
1:G:44:LEU:C	1:G:45:LEU:HD23	2.43	0.43
1:G:58:ILE:HB	1:G:61:VAL:CB	2.47	0.43
1:G:128:HIS:CE1	1:G:131:THR:HG23	2.52	0.43
2:H:575:GLN:HB3	2:H:671:ASN:ND2	2.32	0.43
2:H:577:PRO:HG3	2:H:993:PHE:CD1	2.52	0.43
3:I:93:ILE:CG2	3:I:551:ASN:HD22	2.30	0.43
3:I:143:ASN:ND2	3:I:143:ASN:N	2.66	0.43
3:I:158:TYR:HE1	3:I:452:ILE:HD11	1.82	0.43
3:I:669:ASN:ND2	3:I:672:ALA:H	2.15	0.43
3:I:922:LEU:N	3:I:922:LEU:CD2	2.81	0.43
3:I:1040:GLY:O	3:I:1060:SER:HB3	2.18	0.43
3:I:1229:ILE:O	3:I:1229:ILE:HG22	2.18	0.43
3:I:1256:LEU:O	3:I:1259:VAL:N	2.51	0.43
3:I:1358:ALA:O	7:Y:55:LYS:NZ	2.47	0.43
1:L:60:ASP:OD2	1:L:60:ASP:N	2.51	0.43
2:M:36:PRO:HG2	2:M:70:GLU:HB3	2.00	0.43
2:M:128:ILE:N	2:M:128:ILE:HD12	2.33	0.43
2:M:249:LYS:HB3	2:M:250:ARG:H	1.58	0.43
2:M:553:ASP:OD2	2:M:881:ASN:HA	2.18	0.43
2:M:901:TYR:CD1	2:M:901:TYR:N	2.86	0.43
2:M:1009:SER:OG	2:M:1010:THR:N	2.51	0.43
3:N:699:VAL:HB	3:N:716:PHE:O	2.18	0.43
3:N:987:GLU:HA	3:N:987:GLU:OE2	2.18	0.43
3:N:1259:VAL:O	3:N:1263:PHE:HD1	2.01	0.43
3:N:1447:LEU:N	3:N:1447:LEU:HD12	2.33	0.43
7:X:5:VAL:CG1	7:X:72:ALA:HB2	2.47	0.43
7:X:77:GLU:HG3	7:X:77:GLU:O	2.18	0.43
2:C:327:HIS:C	2:C:329:GLY:H	2.27	0.43
2:C:501:THR:HG21	2:C:513:VAL:HG13	1.99	0.43
2:C:701:THR:CG2	2:C:832:LYS:HG2	2.48	0.43
2:C:708:TYR:HE2	2:C:793:PRO:HG2	1.83	0.43
2:C:1036:GLU:O	2:C:1039:ALA:HB3	2.18	0.43
3:D:63:TYR:HB3	3:D:68:PHE:CD1	2.52	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:441:ARG:NH1	3:D:445:ARG:CZ	2.80	0.43
3:D:465:LEU:HD22	3:D:510:GLU:N	2.33	0.43
3:D:806:PHE:C	3:D:808:THR:N	2.74	0.43
3:D:1125:PRO:HB2	3:D:1126:ASP:H	1.59	0.43
4:E:24:ALA:O	4:E:27:ALA:N	2.50	0.43
1:F:57:TYR:C	1:F:58:ILE:HD12	2.43	0.43
1:F:88:ARG:O	1:F:120:VAL:HG23	2.18	0.43
1:F:134:GLU:C	1:F:136:GLY:N	2.75	0.43
1:F:174:VAL:CG1	1:F:200:TRP:O	2.66	0.43
2:H:395:LYS:HD3	2:H:397:GLU:OE2	2.17	0.43
2:H:455:LEU:CD1	2:H:456:ALA:O	2.62	0.43
2:H:495:THR:CG2	2:H:517:ARG:HE	2.29	0.43
2:H:897:LEU:HD21	2:H:921:ALA:N	2.34	0.43
3:I:36:THR:C	3:I:38:LYS:N	2.74	0.43
3:I:206:ARG:HH21	3:I:441:ARG:HH21	1.62	0.43
3:I:511:TRP:N	3:I:511:TRP:CE3	2.86	0.43
3:I:657:LEU:O	3:I:658:LEU:C	2.61	0.43
3:I:804:LEU:CD2	3:I:831:GLY:CA	2.94	0.43
3:I:827:ILE:HA	3:I:836:VAL:CG1	2.48	0.43
3:I:936:TYR:HD1	3:I:937:TYR:CD1	2.36	0.43
3:I:1037:GLN:OE1	3:I:1042:ARG:NH1	2.50	0.43
3:I:1330:ILE:HG22	3:I:1331:ASP:N	2.34	0.43
3:I:1389:LEU:O	3:I:1390:LEU:HB2	2.17	0.43
1:K:41:ARG:HG3	1:K:177:VAL:HG12	1.99	0.43
1:K:65:PHE:CE1	2:M:799:ILE:HB	2.53	0.43
1:K:88:ARG:NH1	1:K:90:LEU:CD1	2.71	0.43
1:K:89:PHE:HD2	1:K:94:LEU:O	1.99	0.43
1:K:137:ARG:HG3	1:K:137:ARG:NH1	2.33	0.43
1:L:215:VAL:HG23	1:L:216:GLU:N	2.32	0.43
2:M:68:PHE:CD1	2:M:69:LEU:N	2.86	0.43
2:M:141:HIS:N	2:M:141:HIS:CD2	2.85	0.43
2:M:442:GLU:O	2:M:442:GLU:HG3	2.19	0.43
2:M:739:GLU:HB2	2:M:742:VAL:HB	2.00	0.43
3:N:409:VAL:CG1	3:N:410:SER:N	2.80	0.43
3:N:493:ARG:CG	3:N:494:LYS:N	2.81	0.43
3:N:581:LEU:O	3:N:603:LEU:HG	2.18	0.43
3:N:654:LYS:O	3:N:658:LEU:HG	2.18	0.43
3:N:752:SER:C	3:N:754:PHE:N	2.76	0.43
3:N:860:LEU:HD22	3:N:878:GLY:N	2.33	0.43
3:N:970:LYS:O	3:N:973:GLN:HG2	2.18	0.43
3:N:1466:VAL:O	3:N:1469:GLY:N	2.50	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:39:ARG:O	2:C:40:GLU:C	2.61	0.43
2:C:267:TYR:CB	2:C:272:ALA:HB1	2.42	0.43
2:C:806:LEU:HD13	2:C:813:VAL:HG21	2.00	0.43
2:C:897:LEU:CD2	2:C:921:ALA:HA	2.46	0.43
2:C:988:VAL:CG1	3:D:949:ILE:O	2.52	0.43
2:C:1032:PHE:CE2	2:C:1037:VAL:HG22	2.53	0.43
2:C:1091:GLU:OE2	3:D:613:ARG:HG3	2.18	0.43
2:C:1103:ASP:OD1	3:D:2:LYS:HG3	2.18	0.43
3:D:362:GLU:O	3:D:379:ALA:HB1	2.18	0.43
3:D:501:ALA:HB1	3:D:1452:ILE:HG22	2.00	0.43
3:D:754:PHE:CZ	4:E:21:VAL:HA	2.54	0.43
3:D:765:SER:C	3:D:767:HIS:N	2.75	0.43
3:D:1024:ALA:HB2	3:D:1035:ILE:HD11	1.99	0.43
3:D:1257:PRO:HA	3:D:1260:ILE:CD1	2.47	0.43
3:D:1305:LEU:HD12	3:D:1311:LEU:CD2	2.34	0.43
4:E:9:LEU:HD22	4:E:19:LEU:HD11	2.00	0.43
1:F:32:PHE:CE1	1:G:221:HIS:NE2	2.86	0.43
1:F:206:THR:CG2	1:F:209:GLU:HG3	2.36	0.43
1:F:210:ALA:O	1:F:211:LEU:C	2.61	0.43
1:G:57:TYR:O	1:G:140:MET:HA	2.17	0.43
1:G:176:ARG:HG2	1:G:200:TRP:CE3	2.53	0.43
2:H:30:LEU:HA	2:H:44:ILE:HG13	2.00	0.43
2:H:46:ALA:O	2:H:50:GLU:HG2	2.18	0.43
2:H:226:VAL:HG13	2:H:227:PHE:N	2.33	0.43
2:H:327:HIS:O	2:H:329:GLY:N	2.51	0.43
2:H:360:LEU:C	2:H:362:GLY:N	2.76	0.43
2:H:547:ILE:HA	2:H:548:PRO:HD3	1.82	0.43
3:I:584:ASN:CG	3:I:590:PRO:HD2	2.42	0.43
3:I:638:LYS:O	3:I:640:HIS:N	2.50	0.43
3:I:820:GLU:CB	3:I:836:VAL:HG21	2.47	0.43
3:I:1021:TYR:O	3:I:1022:VAL:C	2.61	0.43
3:I:1041:LEU:HB2	3:I:1059:SER:O	2.18	0.43
3:I:1108:ARG:HD3	3:I:1108:ARG:N	2.32	0.43
3:I:1218:GLY:O	4:J:17:TYR:CE2	2.71	0.43
3:I:1281:VAL:CG1	3:I:1282:ARG:N	2.81	0.43
3:I:1336:LEU:CD1	3:I:1341:PRO:HG3	2.47	0.43
1:L:31:GLY:N	1:L:193:ASP:OD1	2.52	0.43
2:M:588:VAL:HG11	2:M:661:SER:HB2	1.98	0.43
2:M:928:LYS:HD2	2:M:928:LYS:HA	1.85	0.43
3:N:95:LEU:HD22	3:N:574:LEU:HD21	1.99	0.43
3:N:490:ALA:O	3:N:493:ARG:HG3	2.17	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:860:LEU:HA	3:N:877:PRO:HB2	2.00	0.43
3:N:1138:ALA:O	3:N:1141:GLU:HB2	2.19	0.43
1:A:45:LEU:N	1:A:45:LEU:CD1	2.81	0.43
1:A:55:SER:HB3	1:A:143:ARG:HB3	1.99	0.43
1:A:82:LEU:HD21	1:A:140:MET:HE1	2.00	0.43
1:B:59:GLU:HG2	1:B:139:ASN:HB3	2.00	0.43
2:C:113:VAL:O	2:C:115:LEU:CD2	2.66	0.43
2:C:121:MET:HE3	2:C:125:GLY:O	2.18	0.43
2:C:332:ARG:C	2:C:333:ILE:HD12	2.42	0.43
2:C:455:LEU:HD13	2:C:459:ALA:HB3	2.00	0.43
2:C:571:LEU:CD1	2:C:701:THR:N	2.77	0.43
2:C:682:TYR:O	2:C:850:ALA:HB3	2.18	0.43
2:C:1012:PRO:CD	2:C:1026:GLN:HB2	2.49	0.43
3:D:58:CYS:HA	3:D:78:VAL:HG11	2.01	0.43
3:D:462:GLN:O	3:D:466:LYS:HG3	2.19	0.43
3:D:509:PRO:O	3:D:512:MET:HB2	2.18	0.43
3:D:841:TYR:CD1	3:D:858:VAL:CG1	3.01	0.43
3:D:1347:TYR:HD2	3:D:1348:LEU:HD12	1.83	0.43
3:D:1437:ALA:HB3	3:D:1446:VAL:HG11	2.00	0.43
1:F:38:ASN:HB3	1:F:39:PRO:HD3	2.00	0.43
1:G:44:LEU:O	1:G:48:ILE:HD12	2.19	0.43
2:H:379:GLU:O	2:H:383:ARG:HB3	2.19	0.43
2:H:537:LYS:HB2	2:H:537:LYS:HE2	1.82	0.43
2:H:586:ARG:O	2:H:587:VAL:C	2.60	0.43
2:H:635:THR:O	2:H:637:LEU:HG	2.17	0.43
2:H:928:LYS:HZ1	2:H:932:GLU:HG2	1.83	0.43
2:H:1014:SER:HB2	2:H:1021:LEU:CD1	2.49	0.43
3:I:65:ARG:HD2	3:I:65:ARG:HA	1.87	0.43
3:I:160:GLU:OE2	3:I:165:LYS:HD2	2.18	0.43
3:I:592:THR:O	3:I:593:ASN:C	2.61	0.43
3:I:1135:ARG:CD	3:I:1139:ASP:HB2	2.37	0.43
3:I:1353:GLN:O	3:I:1354:LYS:C	2.62	0.43
3:I:1434:TRP:CZ3	3:I:1455:LYS:O	2.72	0.43
4:J:19:LEU:HD12	4:J:23:VAL:HG23	2.00	0.43
1:K:182:GLU:CG	1:K:183:ASP:H	2.24	0.43
1:L:58:ILE:HG12	1:L:140:MET:HB3	2.00	0.43
1:L:87:VAL:CG2	1:L:144:VAL:HG11	2.44	0.43
2:M:146:VAL:CG2	2:M:162:ILE:HG13	2.45	0.43
2:M:177:GLU:OE2	2:M:179:ASN:HB2	2.18	0.43
2:M:670:GLN:HG3	2:M:700:TYR:CD1	2.53	0.43
2:M:682:TYR:O	2:M:850:ALA:HB3	2.18	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:742:VAL:CG1	2:M:743:VAL:N	2.81	0.43
2:M:792:VAL:HA	2:M:793:PRO:HD3	1.86	0.43
2:M:831:ARG:HH12	2:M:1002:GLU:CG	2.31	0.43
2:M:836:GLY:HA3	2:M:1001:VAL:CG2	2.34	0.43
3:N:72:VAL:CG2	3:N:77:GLY:HA2	2.48	0.43
3:N:127:LEU:HD22	3:N:134:VAL:CG2	2.49	0.43
3:N:348:GLN:O	3:N:351:MET:HB2	2.18	0.43
3:N:1051:GLU:HG3	3:N:1051:GLU:O	2.18	0.43
3:N:1080:GLY:C	7:Z:49:GLU:HG3	2.43	0.43
3:N:1258:ARG:HH21	3:N:1351:GLU:HG2	1.83	0.43
3:N:1356:TYR:HD1	3:N:1356:TYR:H	1.67	0.43
3:N:1356:TYR:N	3:N:1356:TYR:CD1	2.87	0.43
7:X:141:ASP:OD2	7:X:142:THR:N	2.52	0.43
1:B:101:LEU:HD12	1:B:114:PHE:CA	2.49	0.43
2:C:140:ILE:HA	2:C:332:ARG:O	2.18	0.43
2:C:205:GLU:H	2:C:205:GLU:HG3	1.56	0.43
2:C:205:GLU:O	2:C:206:THR:C	2.62	0.43
2:C:787:ASP:O	2:C:787:ASP:OD1	2.37	0.43
2:C:874:LEU:HD23	3:D:1023:MET:SD	2.58	0.43
2:C:984:GLU:CG	3:D:944:THR:O	2.66	0.43
2:C:1032:PHE:HD2	2:C:1037:VAL:CG2	2.32	0.43
2:C:1032:PHE:CE2	2:C:1037:VAL:HA	2.39	0.43
2:C:1076:VAL:HA	2:C:1077:PRO:HD3	1.87	0.43
3:D:128:TYR:HD2	3:D:128:TYR:HA	1.43	0.43
3:D:142:LEU:HB3	3:D:144:GLY:H	1.83	0.43
3:D:880:ILE:CG2	3:D:881:LEU:H	2.31	0.43
3:D:945:SER:OG	3:D:947:ILE:HG23	2.17	0.43
3:D:1041:LEU:HD12	3:D:1057:VAL:O	2.18	0.43
3:D:1321:ALA:O	3:D:1339:LYS:HD2	2.18	0.43
3:D:1358:ALA:O	7:X:55:LYS:NZ	2.47	0.43
4:E:53:GLY:C	4:E:55:PHE:N	2.76	0.43
4:E:92:LEU:O	4:E:93:TYR:CD2	2.72	0.43
1:F:20:TYR:HH	1:F:198:ARG:HD3	1.83	0.43
1:F:45:LEU:CD1	1:F:177:VAL:HG21	2.49	0.43
1:F:189:ARG:HA	1:F:189:ARG:HD3	1.76	0.43
2:H:157:ARG:CG	2:H:158:TYR:N	2.78	0.43
2:H:309:TYR:CE2	2:H:321:GLU:HB3	2.53	0.43
2:H:367:LEU:HD12	2:H:367:LEU:O	2.19	0.43
2:H:437:ARG:HG2	2:H:467:ILE:O	2.19	0.43
2:H:471:TYR:O	2:H:483:VAL:HG13	2.19	0.43
2:H:710:ILE:HB	2:H:790:LEU:HD22	2.00	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:724:ARG:HG2	2:H:737:LEU:HD22	2.00	0.43
3:I:670:VAL:CG1	3:I:671:LYS:H	2.27	0.43
3:I:919:PHE:HZ	3:I:924:MET:HE2	1.83	0.43
3:I:1155:VAL:CG1	3:I:1177:ALA:HB1	2.48	0.43
3:I:1394:VAL:HB	3:I:1397:LYS:HB2	2.01	0.43
3:I:1466:VAL:O	3:I:1469:GLY:N	2.49	0.43
1:K:56:VAL:CG1	1:K:57:TYR:N	2.78	0.43
1:K:82:LEU:O	1:K:85:LEU:HB3	2.19	0.43
1:K:184:THR:CG2	1:K:185:ARG:H	2.31	0.43
1:L:56:VAL:HG12	1:L:57:TYR:H	1.83	0.43
1:L:185:ARG:CZ	3:N:692:GLU:CB	2.97	0.43
1:L:195:LEU:HD12	1:L:195:LEU:C	2.44	0.43
2:M:137:VAL:HG23	2:M:391:LEU:CD2	2.49	0.43
2:M:192:PRO:O	2:M:195:LEU:HB3	2.19	0.43
2:M:343:GLN:CA	2:M:343:GLN:HE21	2.30	0.43
2:M:383:ARG:HB2	2:M:383:ARG:NH1	2.32	0.43
2:M:474:VAL:CG2	2:M:478:VAL:O	2.58	0.43
2:M:598:GLU:HB2	2:M:615:TYR:CE1	2.53	0.43
2:M:838:LYS:NZ	2:M:846:LYS:NZ	2.66	0.43
2:M:886:LEU:HD12	2:M:886:LEU:HA	1.73	0.43
3:N:97:THR:HB	3:N:571:LYS:HE2	2.00	0.43
3:N:704:ARG:CD	3:N:705:ALA:H	2.32	0.43
3:N:765:SER:OG	3:N:766:ALA:N	2.50	0.43
3:N:991:GLN:HE22	7:Z:113:LEU:HG	1.83	0.43
3:N:1110:ALA:O	3:N:1112:CYS:N	2.51	0.43
3:N:1190:SER:OG	3:N:1191:PRO:CD	2.65	0.43
3:N:1471:LEU:CD2	3:N:1477:GLY:HA2	2.48	0.43
7:X:12:TYR:OH	7:X:16:MET:HE3	2.19	0.43
1:B:82:LEU:N	1:B:82:LEU:HD23	2.33	0.43
2:C:52:PHE:CD1	2:C:52:PHE:C	2.96	0.43
2:C:89:THR:HG21	2:C:383:ARG:NH2	2.32	0.43
2:C:176:VAL:O	2:C:176:VAL:HG23	2.18	0.43
2:C:399:ASN:O	2:C:402:SER:HB3	2.17	0.43
2:C:928:LYS:HA	2:C:928:LYS:HD2	1.76	0.43
3:D:41:ARG:C	3:D:43:GLY:H	2.25	0.43
3:D:181:ASP:CA	3:D:205:TYR:CD2	2.98	0.43
3:D:353:VAL:HG23	3:D:353:VAL:O	2.18	0.43
3:D:402:PRO:N	3:D:443:VAL:HG23	2.34	0.43
3:D:625:TYR:HB3	3:D:749:VAL:CG2	2.49	0.43
3:D:821:VAL:O	3:D:821:VAL:HG12	2.19	0.43
3:D:908:LYS:CB	3:D:1027:GLY:HA3	2.38	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1137:ARG:HG3	3:D:1137:ARG:NH1	2.32	0.43
1:F:206:THR:O	1:F:207:PRO:C	2.61	0.43
1:F:225:PHE:HD1	1:G:215:VAL:HG11	1.83	0.43
1:G:96:THR:HB	1:G:145:ASP:OD2	2.19	0.43
2:H:90:TYR:O	2:H:90:TYR:HD1	2.02	0.43
2:H:328:LEU:HD11	2:H:434:HIS:CD2	2.53	0.43
2:H:409:ARG:HA	2:H:454:SER:HA	2.01	0.43
2:H:595:LEU:HD12	2:H:595:LEU:HA	1.81	0.43
2:H:690:ILE:CG1	2:H:694:LEU:HD12	2.48	0.43
2:H:690:ILE:HG13	2:H:694:LEU:HD12	1.99	0.43
2:H:853:LEU:HA	2:H:854:PRO:HD3	1.83	0.43
2:H:1092:LEU:HB3	2:H:1099:VAL:HG23	2.01	0.43
3:I:80:VAL:HG12	3:I:81:THR:N	2.33	0.43
3:I:549:ASN:HD22	3:I:549:ASN:HA	1.52	0.43
3:I:700:VAL:HG13	3:I:718:PRO:HG2	2.00	0.43
3:I:917:GLN:HA	3:I:920:LEU:HD12	2.00	0.43
3:I:1108:ARG:NH2	3:I:1198:TYR:O	2.51	0.43
4:J:59:ASN:HB3	4:J:62:THR:OG1	2.18	0.43
1:K:42:ARG:CZ	2:M:857:ASP:HB3	2.48	0.43
1:L:57:TYR:CD2	1:L:161:ARG:HG2	2.53	0.43
1:L:83:LYS:HE2	1:L:168:ASP:O	2.18	0.43
2:M:206:THR:CG2	2:M:207:LEU:N	2.82	0.43
2:M:455:LEU:HD12	2:M:456:ALA:N	2.34	0.43
2:M:1019:GLN:HG3	3:N:621:LYS:HZ2	1.82	0.43
3:N:84:ILE:HG13	3:N:85:VAL:N	2.33	0.43
3:N:86:ARG:HD3	3:N:523:ASP:OD2	2.18	0.43
3:N:813:LEU:CD1	3:N:814:ALA:N	2.76	0.43
3:N:824:ASN:C	3:N:824:ASN:HD22	2.25	0.43
3:N:1159:ARG:NH1	3:N:1159:ARG:CG	2.81	0.43
3:N:1219:GLU:OE1	4:O:17:TYR:OH	2.32	0.43
3:N:1434:TRP:CG	3:N:1435:LEU:N	2.87	0.43
3:N:1496:GLU:CD	3:N:1500:LYS:HE3	2.44	0.43
7:X:115:THR:HB	7:X:116:PRO:CD	2.47	0.43
7:Y:58:ILE:O	7:Y:59:GLU:C	2.62	0.43
7:Z:133:ARG:N	7:Z:136:ASP:OD2	2.34	0.43
1:A:50:GLY:C	1:A:51:THR:CG2	2.90	0.43
1:A:78:ILE:O	1:A:81:ASN:N	2.52	0.43
1:B:52:ALA:HB1	1:B:170:VAL:N	2.34	0.43
1:B:58:ILE:N	1:B:58:ILE:HD12	2.33	0.43
1:B:104:GLU:HA	1:B:136:GLY:O	2.19	0.43
2:C:35:PRO:C	2:C:37:GLU:H	2.25	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:194:VAL:O	2:C:195:LEU:C	2.61	0.43
2:C:979:THR:HG23	2:C:981:GLU:N	2.22	0.43
2:C:994:ILE:HG22	2:C:995:MET:N	2.32	0.43
2:C:1004:LYS:CG	3:D:630:VAL:HG23	2.49	0.43
2:C:1024:LYS:CA	2:C:1024:LYS:HE3	2.46	0.43
3:D:12:LEU:HD21	3:D:104:PHE:HE1	1.83	0.43
3:D:52:PRO:O	3:D:86:ARG:CG	2.66	0.43
3:D:54:LYS:HG3	3:D:55:ASP:N	2.33	0.43
3:D:348:GLN:HB3	3:D:349:PRO:HD2	2.01	0.43
3:D:592:THR:O	3:D:593:ASN:C	2.60	0.43
3:D:788:GLY:O	3:D:792:ILE:HG22	2.18	0.43
3:D:925:GLU:OE1	4:E:7:ASP:OD2	2.36	0.43
3:D:1173:LEU:HD12	3:D:1176:LYS:HE2	2.00	0.43
3:D:1283:ILE:HD11	3:D:1314:LYS:HA	2.01	0.43
3:D:1288:GLU:CD	3:D:1289:LYS:HE3	2.44	0.43
3:D:1385:GLY:HA2	3:D:1413:THR:HG21	2.01	0.43
3:D:1495:ILE:HD13	3:D:1495:ILE:HA	1.95	0.43
1:F:82:LEU:HD13	1:F:142:VAL:HG11	2.00	0.43
1:G:223:THR:C	1:G:225:PHE:H	2.27	0.43
2:H:198:ARG:CZ	2:H:203:ASP:HA	2.48	0.43
2:H:574:ALA:O	2:H:662:GLU:OE1	2.36	0.43
2:H:850:ALA:HA	3:I:632:VAL:HG13	2.01	0.43
2:H:1001:VAL:CB	3:I:724:GLN:CD	2.85	0.43
2:H:1047:HIS:HA	2:H:1050:GLN:HB3	2.01	0.43
2:H:1084:SER:HA	2:H:1087:VAL:HG12	2.01	0.43
3:I:52:PRO:CG	3:I:80:VAL:HG22	2.48	0.43
3:I:620:GLY:O	3:I:621:LYS:HG2	2.19	0.43
3:I:646:LYS:O	3:I:649:ALA:HB3	2.19	0.43
3:I:996:TRP:CZ2	3:I:1056:PRO:HG2	2.53	0.43
3:I:1026:SER:O	3:I:1028:ALA:N	2.51	0.43
3:I:1218:GLY:C	4:J:17:TYR:CE2	2.97	0.43
3:I:1353:GLN:HB3	3:I:1357:ARG:NE	2.33	0.43
3:I:1380:GLU:HB2	3:I:1420:LEU:HD11	2.01	0.43
3:I:1391:GLU:CD	3:I:1393:GLN:HE21	2.27	0.43
4:J:24:ALA:O	4:J:27:ALA:N	2.52	0.43
2:M:111:ASP:OD1	2:M:111:ASP:N	2.51	0.43
2:M:120:LEU:O	2:M:127:PHE:CD2	2.71	0.43
2:M:151:ASP:OD1	2:M:152:PRO:HD2	2.18	0.43
2:M:175:GLU:HG2	2:M:176:VAL:H	1.83	0.43
2:M:205:GLU:O	2:M:206:THR:C	2.62	0.43
2:M:546:LEU:C	2:M:581:THR:HG21	2.44	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:626:ARG:H	2:M:639:GLN:NE2	2.16	0.43
2:M:705:ILE:HD12	2:M:705:ILE:N	2.34	0.43
2:M:795:GLY:O	2:M:796:GLU:HG2	2.18	0.43
2:M:944:LEU:CD2	2:M:953:VAL:HG21	2.49	0.43
3:N:180:LYS:N	3:N:180:LYS:HD2	2.34	0.43
3:N:462:GLN:CG	3:N:466:LYS:HE3	2.39	0.43
3:N:549:ASN:HD22	3:N:549:ASN:HA	1.62	0.43
3:N:638:LYS:C	3:N:640:HIS:N	2.76	0.43
3:N:664:LYS:C	3:N:666:ILE:H	2.25	0.43
3:N:764:LEU:HD12	3:N:765:SER:N	2.31	0.43
3:N:907:GLU:O	3:N:911:LEU:HD13	2.19	0.43
3:N:1043:GLY:O	3:N:1057:VAL:HG23	2.18	0.43
3:N:1209:LEU:HG	3:N:1219:GLU:OE1	2.19	0.43
3:N:1254:GLN:O	3:N:1255:GLY:C	2.61	0.43
3:N:1288:GLU:HG3	3:N:1307:LYS:CE	2.49	0.43
7:Z:83:ILE:HG12	7:Z:89:VAL:HG21	2.01	0.43
1:A:20:TYR:HD2	1:A:21:GLY:H	1.66	0.43
1:A:78:ILE:C	1:A:80:LEU:N	2.77	0.43
1:A:149:GLY:O	1:A:171:PHE:HB2	2.18	0.43
1:B:219:ARG:O	1:B:222:LEU:N	2.51	0.43
2:C:22:GLN:NE2	2:C:336:VAL:HG21	2.34	0.43
2:C:627:ARG:O	2:C:638:ASP:HB3	2.18	0.43
2:C:662:GLU:O	2:C:663:ASN:HB2	2.18	0.43
2:C:683:ASN:CA	2:C:687:ALA:HB3	2.47	0.43
2:C:776:SER:HA	2:C:780:GLU:HB3	2.01	0.43
2:C:858:MET:HE2	2:C:858:MET:HB2	1.76	0.43
3:D:50:PHE:CG	3:D:522:PRO:CG	3.01	0.43
3:D:119:SER:CB	3:D:123:LEU:H	2.31	0.43
3:D:181:ASP:O	3:D:204:LEU:HA	2.19	0.43
3:D:479:GLU:C	3:D:483:HIS:HD1	2.25	0.43
3:D:667:ALA:HA	3:D:668:PRO:HD3	1.82	0.43
3:D:704:ARG:CD	3:D:705:ALA:H	2.32	0.43
3:D:1105:ILE:CD1	3:D:1105:ILE:H	2.30	0.43
3:D:1109:GLU:HG2	3:D:1201:CYS:HB2	2.00	0.43
1:F:26:GLU:HG2	1:F:27:PRO:N	2.31	0.43
1:G:128:HIS:HE1	1:G:130:ALA:C	2.27	0.43
1:G:165:ILE:HD12	1:G:165:ILE:O	2.19	0.43
2:H:151:ASP:CG	2:H:152:PRO:HD2	2.43	0.43
2:H:596:TYR:N	2:H:596:TYR:CD1	2.87	0.43
3:I:403:PHE:CE2	3:I:444:VAL:HG23	2.54	0.43
3:I:415:VAL:CG1	3:I:416:ALA:N	2.82	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:581:LEU:O	3:I:603:LEU:HG	2.19	0.43
3:I:871:LYS:HE2	3:I:871:LYS:HB3	1.81	0.43
3:I:1148:VAL:C	3:I:1188:VAL:HG23	2.42	0.43
3:I:1348:LEU:O	3:I:1349:VAL:C	2.62	0.43
3:I:1451:ALA:O	3:I:1452:ILE:C	2.61	0.43
2:M:130:ASN:C	2:M:132:ALA:H	2.27	0.43
2:M:720:GLU:OE2	2:M:760:SER:HB3	2.19	0.43
2:M:855:VAL:HG13	2:M:856:GLU:N	2.33	0.43
2:M:1013:TYR:HA	2:M:1019:GLN:O	2.19	0.43
3:N:57:GLU:O	3:N:80:VAL:HG21	2.19	0.43
3:N:206:ARG:O	3:N:207:PHE:C	2.61	0.43
3:N:812:ALA:HB1	3:N:816:HIS:HD2	1.79	0.43
3:N:841:TYR:HB3	3:N:843:PHE:CE1	2.53	0.43
3:N:850:LEU:H	3:N:850:LEU:CD1	2.25	0.43
3:N:916:TYR:O	3:N:920:LEU:HD12	2.18	0.43
3:N:982:PHE:HD2	3:N:982:PHE:O	2.00	0.43
3:N:1359:GLN:NE2	7:Z:33:LEU:HD21	2.33	0.43
3:N:1460:ILE:O	3:N:1464:GLU:CD	2.61	0.43
4:O:47:LYS:C	4:O:54:LEU:HB2	2.43	0.43
7:Y:147:ARG:NH2	7:Y:149:PHE:CZ	2.87	0.43
7:Z:62:ILE:N	7:Z:62:ILE:CD1	2.81	0.43
1:B:58:ILE:HG21	1:B:61:VAL:HG23	2.00	0.43
2:C:99:GLN:HE21	2:C:101:ILE:HD11	1.83	0.43
2:C:110:GLU:CB	2:C:369:PRO:HB3	2.48	0.43
2:C:184:MET:HB2	2:C:193:LEU:HG	2.01	0.43
2:C:588:VAL:HG23	2:C:589:ARG:N	2.34	0.43
2:C:599:GLU:HG3	2:C:600:ASP:H	1.83	0.43
2:C:810:ASP:HB3	2:C:813:VAL:HG12	2.01	0.43
2:C:833:LEU:HD12	2:C:837:ASP:OD2	2.18	0.43
2:C:865:THR:HA	2:C:866:PRO:HD3	1.70	0.43
2:C:1004:LYS:HA	2:C:1004:LYS:HD3	1.84	0.43
2:C:1008:ARG:NE	2:C:1027:PHE:O	2.50	0.43
3:D:190:GLU:C	3:D:192:ALA:N	2.75	0.43
3:D:1123:PHE:CE2	3:D:1184:GLN:CA	2.89	0.43
3:D:1132:LEU:HD12	3:D:1132:LEU:N	2.34	0.43
3:D:1371:VAL:CG1	3:D:1375:MET:HE2	2.49	0.43
4:E:61:VAL:CG2	4:E:62:THR:N	2.82	0.43
1:F:151:VAL:HB	1:F:169:ALA:HB3	2.00	0.43
2:H:1:MET:O	2:H:1:MET:SD	2.76	0.43
2:H:71:TYR:CD2	2:H:71:TYR:N	2.84	0.43
2:H:163:ILE:HA	2:H:164:PRO:HD3	1.81	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:184:MET:HE2	2:H:186:VAL:HG13	2.00	0.43
2:H:242:LEU:HD21	2:H:254:VAL:HG11	1.99	0.43
2:H:578:VAL:HG23	2:H:579:VAL:HG12	2.01	0.43
2:H:897:LEU:CD2	2:H:921:ALA:HA	2.49	0.43
2:H:966:LEU:HD12	2:H:966:LEU:HA	1.74	0.43
2:H:1041:GLU:HB2	3:I:1223:ILE:HD13	2.01	0.43
3:I:127:LEU:HD11	3:I:461:ILE:HD11	2.00	0.43
3:I:470:LEU:HD12	3:I:503:LEU:CD2	2.47	0.43
3:I:510:GLU:H	3:I:510:GLU:CD	2.26	0.43
3:I:639:LEU:HD12	3:I:640:HIS:H	1.84	0.43
3:I:900:ILE:C	3:I:900:ILE:CD1	2.83	0.43
3:I:1183:ILE:HD12	3:I:1183:ILE:H	1.84	0.43
3:I:1274:ILE:CG1	3:I:1334:GLN:HE21	2.28	0.43
3:I:1323:GLN:O	3:I:1325:LEU:HD13	2.19	0.43
3:I:1440:PHE:CD2	3:I:1441:GLN:N	2.87	0.43
1:K:90:LEU:H	1:K:94:LEU:CD1	2.31	0.43
1:L:211:LEU:O	1:L:214:ALA:HB3	2.19	0.43
2:M:22:GLN:NE2	2:M:336:VAL:HG21	2.33	0.43
2:M:94:LEU:HD12	2:M:94:LEU:C	2.42	0.43
2:M:113:VAL:O	2:M:113:VAL:CG2	2.66	0.43
2:M:140:ILE:HD11	2:M:412:ALA:CB	2.49	0.43
2:M:432:ARG:HH22	3:N:1047:LYS:HE3	1.84	0.43
2:M:445:GLU:CG	2:M:560:MET:HE3	2.26	0.43
2:M:571:LEU:CD2	2:M:670:GLN:HE21	2.27	0.43
2:M:626:ARG:HB3	2:M:629:TYR:CD1	2.53	0.43
2:M:684:PHE:CB	3:N:633:VAL:HG21	2.49	0.43
2:M:810:ASP:HB3	2:M:813:VAL:HG12	2.01	0.43
3:N:87:ARG:HD2	3:N:88:TYR:CE2	2.53	0.43
3:N:142:LEU:HD23	3:N:144:GLY:O	2.19	0.43
3:N:347:VAL:HG13	3:N:351:MET:CB	2.42	0.43
3:N:511:TRP:CE3	3:N:511:TRP:N	2.87	0.43
3:N:978:TYR:C	3:N:980:MET:H	2.27	0.43
3:N:1031:ASN:ND2	7:Z:32:ILE:CG2	2.81	0.43
3:N:1034:GLN:O	3:N:1037:GLN:N	2.46	0.43
3:N:1262:LEU:HA	3:N:1262:LEU:HD12	1.64	0.43
3:N:1348:LEU:N	3:N:1348:LEU:CD1	2.81	0.43
3:N:1422:MET:HE3	3:N:1426:LYS:HE2	2.01	0.43
7:X:128:ALA:O	7:X:138:LEU:HD13	2.18	0.43
7:Y:102:VAL:HG22	7:Y:117:MET:O	2.19	0.43
7:Z:20:GLU:OE1	7:Z:20:GLU:HA	2.18	0.43
1:A:31:GLY:N	1:A:193:ASP:OD1	2.41	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:33:GLY:O	1:A:195:LEU:HD22	2.19	0.43
1:B:111:ALA:HB3	1:B:124:ASN:O	2.19	0.43
2:C:47:ALA:HB2	2:C:345:ARG:HD2	2.01	0.43
2:C:80:GLN:H	2:C:80:GLN:HG2	1.61	0.43
2:C:218:VAL:HG22	2:C:221:LEU:CD2	2.48	0.43
2:C:360:LEU:C	2:C:362:GLY:N	2.77	0.43
2:C:462:ASP:HB3	2:C:468:ARG:HD2	2.00	0.43
2:C:470:PRO:HB3	2:C:485:TYR:CZ	2.54	0.43
2:C:676:ILE:O	2:C:676:ILE:HG23	2.19	0.43
2:C:869:VAL:C	2:C:870:ILE:HD13	2.44	0.43
2:C:931:GLY:O	2:C:932:GLU:C	2.61	0.43
3:D:141:ILE:CG1	3:D:448:GLU:OE1	2.67	0.43
3:D:376:GLU:O	3:D:377:VAL:C	2.60	0.43
3:D:500:ARG:O	3:D:501:ALA:C	2.61	0.43
3:D:639:LEU:CD2	3:D:766:ALA:HA	2.48	0.43
3:D:728:LEU:CD2	3:D:745:MET:SD	3.07	0.43
3:D:838:ARG:HD2	3:D:838:ARG:H	1.84	0.43
3:D:1281:VAL:HG21	3:D:1313:VAL:HG22	2.00	0.43
3:D:1283:ILE:HG22	3:D:1284:GLU:N	2.34	0.43
3:D:1356:TYR:HD1	3:D:1356:TYR:H	1.67	0.43
3:D:1487:VAL:CG1	3:D:1488:ASP:N	2.82	0.43
1:F:26:GLU:CB	1:F:27:PRO:HA	2.48	0.43
1:F:99:LEU:N	1:F:99:LEU:CD1	2.78	0.43
2:H:153:ALA:O	2:H:155:PRO:CD	2.67	0.43
2:H:281:LEU:CG	2:H:282:GLY:N	2.68	0.43
2:H:374:ASN:O	2:H:377:PRO:HD2	2.19	0.43
2:H:577:PRO:C	2:H:579:VAL:N	2.75	0.43
2:H:621:VAL:HG12	2:H:622:GLU:H	1.84	0.43
2:H:676:ILE:HD12	2:H:871:LEU:HB2	2.01	0.43
2:H:1035:MET:HG2	3:I:707:THR:O	2.19	0.43
3:I:554:LEU:HD11	3:I:571:LYS:CE	2.48	0.43
3:I:714:GLN:HB2	3:I:716:PHE:CE1	2.54	0.43
3:I:1128:VAL:C	3:I:1129:THR:HG22	2.43	0.43
3:I:1140:ILE:HG21	3:I:1175:ILE:CD1	2.39	0.43
3:I:1346:ARG:HA	3:I:1346:ARG:HD2	1.80	0.43
3:I:1459:LEU:CD2	3:I:1470:ARG:NH2	2.64	0.43
1:K:23:PHE:CD2	1:K:211:LEU:HD22	2.54	0.43
2:M:187:ASN:O	2:M:188:LYS:CB	2.64	0.43
2:M:242:LEU:C	2:M:244:PRO:HD2	2.44	0.43
2:M:404:LEU:HA	2:M:407:LYS:CD	2.42	0.43
2:M:681:GLY:C	3:N:635:PRO:CG	2.90	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:939:ARG:HE	2:M:939:ARG:CA	2.09	0.43
3:N:359:ALA:H	3:N:385:VAL:HB	1.83	0.43
3:N:970:LYS:HG2	3:N:995:LEU:HD13	1.99	0.43
3:N:1144:LEU:HD11	3:N:1186:VAL:HG21	2.01	0.43
3:N:1434:TRP:HE1	3:N:1435:LEU:CD1	2.31	0.43
1:B:95:GLN:HE21	1:B:95:GLN:HB2	1.54	0.42
1:B:157:GLY:O	1:B:159:LYS:HE3	2.19	0.42
2:C:79:PRO:HG2	2:C:82:GLU:HB2	2.00	0.42
2:C:102:HIS:HD2	2:C:106:GLY:O	2.02	0.42
2:C:109:LYS:HE2	2:C:111:ASP:OD2	2.19	0.42
2:C:193:LEU:N	2:C:193:LEU:CD1	2.81	0.42
2:C:290:LEU:HD23	2:C:290:LEU:N	2.27	0.42
2:C:408:ARG:NH2	2:C:455:LEU:CD1	2.65	0.42
2:C:794:PRO:HG2	2:C:1025:ALA:HA	1.99	0.42
2:C:861:LEU:CG	2:C:862:PRO:CD	2.89	0.42
3:D:441:ARG:O	3:D:442:ASN:C	2.62	0.42
3:D:581:LEU:O	3:D:603:LEU:HB2	2.19	0.42
3:D:590:PRO:O	3:D:600:LEU:CD1	2.67	0.42
3:D:638:LYS:C	3:D:640:HIS:N	2.77	0.42
3:D:699:VAL:HB	3:D:716:PHE:O	2.19	0.42
3:D:851:LEU:HG	3:D:851:LEU:H	1.41	0.42
3:D:1426:LYS:O	3:D:1426:LYS:HG2	2.18	0.42
3:D:1477:GLY:O	3:D:1478:SER:C	2.62	0.42
1:G:14:ARG:HB2	1:G:14:ARG:NH1	2.34	0.42
1:G:211:LEU:O	1:G:214:ALA:HB3	2.18	0.42
2:H:140:ILE:HD11	2:H:412:ALA:HA	2.01	0.42
2:H:165:LEU:CD1	2:H:166:PRO:C	2.87	0.42
2:H:177:GLU:CD	2:H:179:ASN:H	2.27	0.42
2:H:806:LEU:HD12	2:H:822:VAL:CG2	2.48	0.42
2:H:952:LEU:CD2	2:H:952:LEU:N	2.81	0.42
2:H:1103:ASP:OD2	3:I:3:LYS:HD2	2.19	0.42
3:I:41:ARG:C	3:I:43:GLY:N	2.77	0.42
3:I:150:ARG:CB	3:I:150:ARG:NH1	2.82	0.42
3:I:206:ARG:HD3	3:I:206:ARG:HA	1.77	0.42
3:I:441:ARG:O	3:I:442:ASN:C	2.62	0.42
3:I:486:ARG:HA	3:I:489:ARG:HG2	2.00	0.42
3:I:497:GLU:O	3:I:498:VAL:C	2.62	0.42
3:I:566:ILE:HG12	2:M:180:GLY:CA	2.49	0.42
3:I:937:TYR:O	3:I:938:GLY:C	2.62	0.42
3:I:1287:GLU:O	3:I:1288:GLU:C	2.62	0.42
1:L:102:LYS:HB2	1:L:139:ASN:ND2	2.34	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:333:ILE:CD1	2:M:410:ILE:HG12	2.48	0.42
2:M:439:CYS:SG	2:M:441:VAL:HG23	2.60	0.42
2:M:810:ASP:HA	2:M:811:PRO:HD3	1.90	0.42
2:M:835:VAL:HG13	2:M:836:GLY:N	2.34	0.42
2:M:839:LEU:CB	2:M:995:MET:O	2.67	0.42
2:M:1041:GLU:O	2:M:1042:ALA:C	2.59	0.42
3:N:415:VAL:HG13	3:N:419:ASP:CB	2.41	0.42
3:N:508:ARG:HB3	3:N:510:GLU:OE2	2.18	0.42
3:N:818:ARG:C	3:N:820:GLU:N	2.76	0.42
3:N:978:TYR:HB2	3:N:983:LEU:HD11	2.01	0.42
3:N:1000:THR:CG2	3:N:1001:GLU:H	2.30	0.42
3:N:1018:ASN:HB3	3:N:1021:TYR:CB	2.48	0.42
3:N:1161:GLU:CG	3:N:1164:ARG:HB2	2.49	0.42
3:N:1165:TYR:CD2	3:N:1214:PRO:HG3	2.54	0.42
4:O:35:PHE:CD2	4:O:35:PHE:O	2.72	0.42
4:O:47:LYS:HA	4:O:54:LEU:CB	2.40	0.42
4:O:84:ARG:HG3	4:O:84:ARG:NH1	2.33	0.42
7:Z:12:TYR:C	7:Z:12:TYR:CD2	2.96	0.42
1:A:41:ARG:HG3	1:A:41:ARG:NH1	2.27	0.42
1:A:85:LEU:HA	1:A:124:ASN:HD22	1.84	0.42
1:B:33:GLY:C	1:B:195:LEU:HD22	2.44	0.42
1:B:221:HIS:HA	1:B:224:TYR:HD2	1.84	0.42
2:C:292:ARG:HD2	2:C:299:LYS:CE	2.49	0.42
2:C:376:ARG:HB3	2:C:377:PRO:HD3	2.01	0.42
2:C:835:VAL:CG1	2:C:836:GLY:N	2.81	0.42
2:C:861:LEU:CD2	2:C:862:PRO:HD2	2.48	0.42
3:D:53:ILE:HG13	3:D:53:ILE:O	2.18	0.42
3:D:93:ILE:CD1	3:D:548:ILE:HD11	2.49	0.42
3:D:133:ILE:HG22	3:D:134:VAL:H	1.84	0.42
3:D:483:HIS:CB	3:D:484:PRO:HD3	2.39	0.42
3:D:861:GLN:CD	3:D:861:GLN:N	2.78	0.42
3:D:885:ILE:HG23	3:D:937:TYR:CE1	2.54	0.42
3:D:1281:VAL:HG23	3:D:1317:ASP:O	2.19	0.42
2:H:25:SER:CB	2:H:335:THR:HB	2.49	0.42
2:H:143:SER:O	2:H:145:GLY:N	2.52	0.42
2:H:146:VAL:HG22	2:H:162:ILE:HA	2.02	0.42
2:H:183:SER:CA	2:H:193:LEU:HD11	2.48	0.42
2:H:431:HIS:CG	2:H:432:ARG:N	2.87	0.42
2:H:775:ARG:O	2:H:779:GLY:C	2.62	0.42
2:H:899:GLN:HG3	2:H:901:TYR:CZ	2.53	0.42
3:I:63:TYR:HD1	3:I:73:CYS:SG	2.42	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:608:SER:O	3:I:612:GLY:HA3	2.19	0.42
3:I:614:PHE:CE2	3:I:1438:ALA:HB1	2.53	0.42
3:I:1031:ASN:ND2	7:Y:32:ILE:HG21	2.33	0.42
3:I:1274:ILE:HD12	3:I:1274:ILE:C	2.44	0.42
3:I:1283:ILE:CD1	3:I:1292:VAL:HG13	2.49	0.42
3:I:1363:LEU:O	3:I:1363:LEU:HG	2.19	0.42
4:J:69:LEU:O	4:J:69:LEU:HD23	2.20	0.42
1:K:64:GLU:HA	1:K:75:VAL:HG11	2.00	0.42
1:K:176:ARG:HG3	1:K:200:TRP:HB2	2.02	0.42
2:M:196:LEU:O	2:M:200:LEU:HD23	2.19	0.42
2:M:260:LEU:HA	2:M:291:ALA:HB1	1.99	0.42
2:M:272:ALA:HA	2:M:464:LEU:HD22	1.97	0.42
2:M:345:ARG:HA	2:M:348:LEU:HB2	2.01	0.42
2:M:609:ASN:ND2	2:M:627:ARG:HG3	2.34	0.42
2:M:682:TYR:CE1	3:N:635:PRO:HD2	2.54	0.42
2:M:1043:TYR:CE1	3:N:710:ARG:O	2.72	0.42
2:M:1105:LYS:H	2:M:1105:LYS:HG3	1.63	0.42
3:N:162:ARG:HD3	3:N:162:ARG:HA	1.70	0.42
3:N:497:GLU:O	3:N:498:VAL:C	2.62	0.42
3:N:634:GLY:O	3:N:637:LEU:HB3	2.19	0.42
3:N:639:LEU:CD1	3:N:639:LEU:C	2.92	0.42
3:N:871:LYS:HE2	3:N:873:LEU:CD2	2.49	0.42
3:N:907:GLU:O	3:N:908:LYS:C	2.61	0.42
3:N:1098:LEU:HD21	3:N:1229:ILE:HG22	1.99	0.42
3:N:1333:HIS:O	3:N:1336:LEU:HB3	2.18	0.42
4:O:27:ALA:O	4:O:31:LEU:HD11	2.17	0.42
4:O:35:PHE:HE2	4:O:63:TRP:CE2	2.37	0.42
1:A:73:GLU:OE1	1:A:129:ILE:O	2.37	0.42
1:A:228:PRO:O	1:A:229:GLN:HB2	2.18	0.42
2:C:221:LEU:HD12	2:C:222:MET:CA	2.49	0.42
2:C:270:GLY:CA	2:C:274:ARG:HD3	2.47	0.42
2:C:389:SER:C	2:C:391:LEU:N	2.76	0.42
2:C:508:ILE:HD13	2:C:526:PRO:HB3	2.01	0.42
2:C:654:LEU:HD13	2:C:663:ASN:C	2.44	0.42
2:C:1094:ALA:HB1	3:D:603:LEU:HD11	2.00	0.42
3:D:171:LEU:HD21	3:D:192:ALA:CB	2.49	0.42
3:D:499:VAL:O	3:D:500:ARG:C	2.61	0.42
3:D:608:SER:O	3:D:612:GLY:HA3	2.19	0.42
3:D:704:ARG:HH12	3:D:743:ASP:CG	2.27	0.42
3:D:853:VAL:HG22	3:D:858:VAL:HG23	2.02	0.42
3:D:955:VAL:HG23	3:D:1011:PHE:HE1	1.85	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1388:ARG:HG3	3:D:1389:LEU:HD23	2.01	0.42
2:H:193:LEU:HD13	2:H:193:LEU:H	1.83	0.42
2:H:194:VAL:HG11	2:H:221:LEU:O	2.19	0.42
2:H:456:ALA:HB3	2:H:459:ALA:CB	2.40	0.42
2:H:580:MET:HB3	2:H:584:GLU:OE1	2.18	0.42
2:H:583:LEU:O	2:H:584:GLU:C	2.63	0.42
2:H:598:GLU:CB	2:H:615:TYR:OH	2.67	0.42
2:H:793:PRO:O	2:H:794:PRO:C	2.62	0.42
2:H:1058:ASP:O	2:H:1060:ILE:N	2.53	0.42
2:H:1076:VAL:HG23	2:H:1077:PRO:O	2.19	0.42
3:I:525:ARG:O	3:I:525:ARG:CG	2.67	0.42
3:I:650:LEU:HD12	3:I:657:LEU:HD22	2.01	0.42
3:I:971:LEU:CD1	3:I:992:ILE:HG23	2.49	0.42
3:I:1216:SER:OG	4:J:16:LYS:HB3	2.19	0.42
1:L:171:PHE:O	1:L:172:SER:C	2.61	0.42
2:M:39:ARG:O	2:M:41:ASN:N	2.53	0.42
2:M:165:LEU:HG	2:M:166:PRO:CA	2.37	0.42
2:M:224:GLU:CB	2:M:228:ALA:HB2	2.50	0.42
2:M:327:HIS:O	2:M:330:ASN:N	2.44	0.42
2:M:376:ARG:HB3	2:M:377:PRO:CD	2.49	0.42
2:M:559:LEU:O	2:M:560:MET:C	2.62	0.42
2:M:676:ILE:CG2	2:M:988:VAL:O	2.58	0.42
2:M:810:ASP:OD2	2:M:815:LEU:HD22	2.19	0.42
3:N:87:ARG:O	3:N:524:LEU:HD11	2.19	0.42
3:N:181:ASP:O	3:N:204:LEU:HA	2.20	0.42
3:N:657:LEU:O	3:N:658:LEU:C	2.63	0.42
3:N:1097:LYS:O	3:N:1098:LEU:C	2.62	0.42
4:O:85:LEU:HD23	4:O:85:LEU:C	2.44	0.42
7:Y:137:VAL:HG22	7:Y:150:ARG:HB2	2.01	0.42
7:Z:32:ILE:O	7:Z:33:LEU:C	2.61	0.42
7:Z:107:PRO:HD3	7:Z:121:ASP:HB3	2.02	0.42
1:A:183:ASP:OD1	1:A:183:ASP:N	2.52	0.42
1:A:218:LEU:O	1:A:222:LEU:HD13	2.19	0.42
2:C:122:THR:CG2	2:C:124:ASP:OD1	2.67	0.42
2:C:184:MET:HE2	2:C:186:VAL:HG11	1.96	0.42
2:C:263:ASP:CB	2:C:264:PRO:HD3	2.49	0.42
2:C:274:ARG:CD	2:C:285:LEU:CD2	2.82	0.42
2:C:292:ARG:HD2	2:C:299:LYS:HE2	2.01	0.42
2:C:383:ARG:HH11	2:C:383:ARG:CB	2.22	0.42
2:C:435:TYR:HA	3:D:1071:PHE:CE2	2.51	0.42
2:C:474:VAL:O	2:C:474:VAL:HG22	2.18	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:571:LEU:HD11	2:C:700:TYR:C	2.45	0.42
2:C:607:ASP:OD2	2:C:609:ASN:HB2	2.18	0.42
2:C:836:GLY:C	2:C:1001:VAL:CG2	2.93	0.42
2:C:897:LEU:HD11	2:C:917:LEU:O	2.20	0.42
2:C:979:THR:HG23	2:C:981:GLU:HB2	2.02	0.42
3:D:54:LYS:HE3	3:D:55:ASP:OD1	2.19	0.42
3:D:208:PRO:C	3:D:210:ARG:H	2.27	0.42
3:D:368:VAL:HB	3:D:377:VAL:CB	2.50	0.42
3:D:835:SER:O	3:D:837:GLY:N	2.52	0.42
3:D:991:GLN:HE22	7:X:112:VAL:CB	2.30	0.42
3:D:1331:ASP:HA	3:D:1332:PRO:HD3	1.71	0.42
1:G:101:LEU:HB2	1:G:114:PHE:HA	2.01	0.42
1:G:185:ARG:HH22	3:I:692:GLU:HB2	1.82	0.42
2:H:26:TYR:CE1	2:H:340:MET:HE3	2.54	0.42
2:H:87:ASP:OD2	2:H:824:ARG:NH2	2.53	0.42
2:H:119:PRO:HG2	2:H:386:PHE:CE2	2.54	0.42
2:H:191:PHE:HB3	2:H:241:LEU:HD21	2.01	0.42
2:H:443:THR:OG1	2:H:450:GLY:N	2.39	0.42
2:H:597:ALA:HB2	2:H:655:LEU:HD21	2.00	0.42
2:H:598:GLU:HB2	2:H:615:TYR:CE2	2.55	0.42
2:H:1011:GLY:HA3	2:H:1012:PRO:HD3	1.66	0.42
3:I:151:GLN:HE21	3:I:152:LEU:CD2	2.32	0.42
3:I:890:VAL:HG11	3:I:922:LEU:HD13	2.00	0.42
4:J:3:GLU:OE1	4:J:4:PRO:HD2	2.19	0.42
4:J:33:HIS:CG	4:J:89:MET:HG2	2.54	0.42
1:L:227:ASN:HA	1:L:228:PRO:HD3	1.61	0.42
2:M:224:GLU:HB3	2:M:228:ALA:N	2.34	0.42
2:M:414:GLY:C	2:M:416:GLY:N	2.77	0.42
2:M:579:VAL:CG1	2:M:887:GLU:HG3	2.49	0.42
2:M:614:ARG:O	2:M:614:ARG:HG2	2.19	0.42
2:M:869:VAL:C	2:M:870:ILE:HD13	2.44	0.42
2:M:897:LEU:CD2	2:M:921:ALA:HA	2.49	0.42
2:M:1052:MET:SD	2:M:1056:LYS:CD	3.05	0.42
2:M:1054:THR:OG1	2:M:1055:LEU:N	2.47	0.42
3:N:420:VAL:CG1	3:N:424:GLY:O	2.67	0.42
3:N:614:PHE:CD2	3:N:1438:ALA:HB1	2.54	0.42
3:N:889:ALA:CB	3:N:930:LEU:HA	2.49	0.42
3:N:1146:GLY:HA3	3:N:1207:TYR:HB2	2.01	0.42
3:N:1297:GLU:OE2	3:N:1297:GLU:HA	2.19	0.42
3:N:1477:GLY:O	3:N:1478:SER:C	2.63	0.42
7:X:152:VAL:O	7:X:153:ALA:HB2	2.19	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:70:GLY:N	2:C:607:ASP:OD1	2.46	0.42
1:A:91:ASN:OD1	1:A:92:PRO:CD	2.56	0.42
1:B:223:THR:C	1:B:225:PHE:H	2.28	0.42
2:C:139:GLN:NE2	2:C:414:GLY:HA3	2.34	0.42
2:C:281:LEU:HD11	2:C:306:THR:HG23	2.02	0.42
2:C:374:ASN:HD22	2:C:374:ASN:N	2.16	0.42
2:C:502:PRO:O	2:C:509:ALA:CB	2.67	0.42
2:C:548:PRO:CG	2:C:842:ARG:CZ	2.98	0.42
2:C:578:VAL:HA	2:C:900:ARG:CG	2.49	0.42
2:C:708:TYR:CE2	2:C:793:PRO:HG2	2.55	0.42
2:C:854:PRO:O	2:C:856:GLU:N	2.53	0.42
2:C:967:PHE:CD1	2:C:972:VAL:HG12	2.54	0.42
2:C:1088:LEU:O	2:C:1089:VAL:C	2.61	0.42
3:D:17:LYS:HA	3:D:20:SER:HB2	2.01	0.42
3:D:84:ILE:C	3:D:86:ARG:N	2.75	0.42
3:D:101:HIS:O	3:D:102:ILE:C	2.62	0.42
3:D:406:ASP:O	3:D:422:ALA:HB1	2.19	0.42
3:D:618:LEU:C	3:D:620:GLY:N	2.77	0.42
3:D:794:GLN:HG2	3:D:1017:PHE:HE2	1.83	0.42
3:D:971:LEU:CD1	3:D:992:ILE:HG23	2.50	0.42
3:D:1147:ARG:CB	3:D:1188:VAL:HG21	2.42	0.42
3:D:1264:GLU:O	3:D:1265:ALA:C	2.61	0.42
3:D:1428:ALA:O	3:D:1429:LEU:C	2.61	0.42
1:F:49:PRO:HB3	1:F:148:VAL:HG22	2.01	0.42
1:F:83:LYS:NZ	2:H:698:ASP:OD2	2.35	0.42
1:F:142:VAL:O	1:F:142:VAL:HG23	2.18	0.42
2:H:134:ARG:HH21	2:H:393:GLN:CA	2.19	0.42
2:H:192:PRO:O	2:H:195:LEU:HB3	2.20	0.42
2:H:211:LEU:CD2	2:H:221:LEU:HD22	2.48	0.42
2:H:975:TYR:HA	2:H:982:PRO:HA	2.01	0.42
3:I:520:LEU:HG	3:I:521:PRO:N	2.34	0.42
3:I:632:VAL:O	3:I:727:GLN:HA	2.20	0.42
3:I:643:GLY:N	3:I:727:GLN:O	2.49	0.42
3:I:731:LEU:HD22	3:I:779:ALA:O	2.20	0.42
3:I:853:VAL:HG22	3:I:858:VAL:CG2	2.47	0.42
3:I:1128:VAL:O	3:I:1129:THR:CG2	2.62	0.42
3:I:1173:LEU:HD12	3:I:1176:LYS:HE2	2.01	0.42
1:L:71:VAL:HG22	1:L:132:LEU:HG	2.01	0.42
2:M:36:PRO:CG	2:M:70:GLU:HG2	2.50	0.42
2:M:76:PRO:O	2:M:77:PRO:C	2.62	0.42
2:M:224:GLU:OE1	2:M:226:VAL:HG13	2.19	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:653:ASP:OD1	2:M:654:LEU:HD23	2.20	0.42
3:N:365:ASP:O	3:N:379:ALA:CB	2.66	0.42
3:N:415:VAL:CG1	3:N:419:ASP:HB2	2.42	0.42
3:N:666:ILE:HG23	3:N:684:LYS:HD2	2.00	0.42
3:N:728:LEU:HD12	3:N:729:HIS:H	1.82	0.42
3:N:875:THR:CG2	3:N:876:SER:H	2.29	0.42
3:N:911:LEU:O	3:N:912:LYS:C	2.62	0.42
3:N:973:GLN:HG2	3:N:973:GLN:H	1.45	0.42
3:N:1382:THR:CG2	3:N:1418:LYS:HE3	2.49	0.42
7:X:6:LYS:NZ	7:X:85:LEU:CD1	2.83	0.42
7:Y:19:LEU:O	7:Y:23:ARG:HG3	2.19	0.42
7:Y:148:GLU:N	7:Y:148:GLU:OE1	2.53	0.42
7:Z:56:ALA:O	7:Z:57:ARG:C	2.61	0.42
1:A:134:GLU:O	1:A:135:GLY:C	2.63	0.42
2:C:39:ARG:HD2	2:C:39:ARG:N	2.31	0.42
2:C:113:VAL:O	2:C:115:LEU:HD21	2.20	0.42
2:C:139:GLN:HB3	2:C:334:ARG:HD3	2.00	0.42
2:C:332:ARG:CG	2:C:465:GLY:HA3	2.34	0.42
2:C:405:ARG:CD	2:C:442:GLU:OE1	2.66	0.42
2:C:470:PRO:HD3	2:C:485:TYR:CE2	2.55	0.42
2:C:650:ARG:CG	2:C:653:ASP:HB2	2.50	0.42
2:C:805:ARG:O	2:C:806:LEU:HD23	2.19	0.42
2:C:1051:GLU:HG2	2:C:1056:LYS:HE3	2.02	0.42
2:C:1084:SER:HA	2:C:1087:VAL:CG1	2.50	0.42
2:C:1086:ARG:CD	3:D:88:TYR:CE1	2.99	0.42
3:D:143:ASN:CB	3:D:161:LEU:CD2	2.90	0.42
3:D:421:LEU:HB2	3:D:427:VAL:HG12	2.01	0.42
3:D:833:GLU:O	3:D:834:THR:CG2	2.68	0.42
3:D:940:THR:O	3:D:941:PHE:C	2.62	0.42
3:D:1084:THR:HA	3:D:1087:ARG:HH11	1.84	0.42
3:D:1106:VAL:HG11	3:D:1474:ALA:HB2	2.01	0.42
3:D:1205:TYR:CE1	3:D:1366:LYS:HD3	2.54	0.42
3:D:1213:ARG:HB2	3:D:1214:PRO:HD3	2.00	0.42
3:D:1262:LEU:HD23	3:D:1352:ILE:HD13	2.02	0.42
3:D:1293:PHE:CZ	3:D:1302:GLU:CD	2.95	0.42
1:F:176:ARG:HB2	1:F:200:TRP:CE3	2.54	0.42
1:F:179:PHE:CD1	1:F:179:PHE:C	2.96	0.42
1:G:30:ARG:HH12	2:H:854:PRO:CB	2.32	0.42
1:G:76:VAL:O	1:G:80:LEU:HB2	2.19	0.42
1:G:176:ARG:CD	3:I:884:ARG:NH2	2.82	0.42
2:H:772:ARG:HE	2:H:772:ARG:HB2	1.55	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:508:ARG:CB	3:I:509:PRO:HD2	2.50	0.42
3:I:514:LEU:HD23	3:I:514:LEU:HA	1.75	0.42
3:I:557:LEU:CD1	3:I:570:GLU:HG3	2.49	0.42
3:I:563:PRO:CB	3:I:566:ILE:HD13	2.50	0.42
3:I:974:ILE:N	3:I:974:ILE:HD13	2.35	0.42
3:I:977:ALA:CB	3:I:983:LEU:HD21	2.49	0.42
3:I:1053:PHE:CE1	3:I:1072:ILE:HG23	2.54	0.42
3:I:1488:ASP:O	3:I:1489:GLN:C	2.62	0.42
1:L:59:GLU:CB	1:L:137:ARG:HH12	2.18	0.42
1:L:199:ILE:HG22	1:L:200:TRP:N	2.35	0.42
2:M:86:LYS:HB3	2:M:813:VAL:HG23	2.00	0.42
2:M:140:ILE:HG23	2:M:410:ILE:CG2	2.49	0.42
2:M:151:ASP:CG	2:M:152:PRO:HD2	2.45	0.42
2:M:207:LEU:HD21	2:M:211:LEU:HD23	2.01	0.42
2:M:254:VAL:O	2:M:258:TYR:CE1	2.72	0.42
2:M:725:ASP:OD1	2:M:725:ASP:C	2.62	0.42
3:N:165:LYS:O	3:N:165:LYS:HD3	2.20	0.42
3:N:166:GLN:HA	3:N:395:VAL:O	2.19	0.42
3:N:205:TYR:HE2	3:N:441:ARG:NH2	2.16	0.42
3:N:618:LEU:HD21	3:N:1463:LYS:NZ	2.33	0.42
3:N:714:GLN:OE1	3:N:732:VAL:CG1	2.61	0.42
3:N:765:SER:C	3:N:767:HIS:H	2.26	0.42
3:N:1346:ARG:HA	3:N:1346:ARG:HD2	1.75	0.42
3:N:1418:LYS:O	3:N:1419:PRO:C	2.62	0.42
4:O:9:LEU:O	4:O:12:MET:HB2	2.19	0.42
1:A:89:PHE:HZ	1:A:144:VAL:HG12	1.84	0.42
2:C:16:PRO:O	2:C:18:LEU:HD12	2.19	0.42
2:C:135:VAL:O	2:C:392:SER:HA	2.20	0.42
2:C:250:ARG:C	2:C:252:LYS:N	2.67	0.42
2:C:274:ARG:HD2	2:C:285:LEU:HD22	1.80	0.42
2:C:468:ARG:HG2	2:C:486:MET:O	2.19	0.42
2:C:501:THR:HG21	2:C:513:VAL:CG1	2.49	0.42
2:C:676:ILE:HG21	2:C:988:VAL:HG13	1.93	0.42
2:C:834:GLN:NE2	3:D:724:GLN:CG	2.68	0.42
2:C:1078:GLU:HA	2:C:1079:PRO:HD3	1.78	0.42
3:D:93:ILE:HG22	3:D:551:ASN:ND2	2.34	0.42
3:D:141:ILE:CD1	3:D:142:LEU:O	2.63	0.42
3:D:160:GLU:HG2	3:D:165:LYS:HG3	2.01	0.42
3:D:350:HIS:ND1	3:D:350:HIS:N	2.62	0.42
1:F:211:LEU:HD12	1:F:211:LEU:C	2.44	0.42
1:G:151:VAL:HB	1:G:169:ALA:HB3	2.01	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:15:LEU:O	2:H:586:ARG:NH2	2.48	0.42
2:H:26:TYR:O	2:H:29:ALA:HB3	2.20	0.42
2:H:177:GLU:OE2	2:H:179:ASN:HB3	2.19	0.42
2:H:341:THR:HG23	2:H:342:ASP:N	2.35	0.42
2:H:405:ARG:C	2:H:407:LYS:N	2.77	0.42
2:H:535:SER:HG	2:H:537:LYS:HZ3	1.63	0.42
2:H:950:LEU:HD13	2:H:950:LEU:O	2.20	0.42
2:H:1085:PHE:O	2:H:1089:VAL:HG23	2.18	0.42
3:I:84:ILE:HG13	3:I:85:VAL:H	1.84	0.42
3:I:625:TYR:OH	3:I:655:PRO:HG2	2.19	0.42
3:I:638:LYS:C	3:I:640:HIS:N	2.75	0.42
3:I:676:MET:HE3	3:I:676:MET:C	2.45	0.42
3:I:1332:PRO:HB3	3:I:1421:LEU:HD21	2.01	0.42
1:K:65:PHE:CD1	1:K:65:PHE:N	2.85	0.42
1:K:80:LEU:HD23	1:K:80:LEU:C	2.44	0.42
1:L:153:ALA:HB2	1:L:168:ASP:N	2.34	0.42
1:L:185:ARG:HG2	1:L:186:LEU:N	2.34	0.42
2:M:90:TYR:HD1	2:M:120:LEU:HB2	1.84	0.42
2:M:221:LEU:O	2:M:223:ASP:N	2.53	0.42
2:M:343:GLN:NE2	2:M:343:GLN:HA	2.34	0.42
2:M:602:GLU:HA	2:M:647:GLN:O	2.20	0.42
2:M:684:PHE:CD2	2:M:685:GLU:N	2.88	0.42
2:M:722:ILE:CD1	2:M:741:GLY:HA3	2.50	0.42
2:M:817:PRO:C	2:M:819:VAL:H	2.27	0.42
2:M:1052:MET:SD	3:N:623:VAL:CG1	3.08	0.42
3:N:139:GLY:HA3	3:N:162:ARG:CZ	2.50	0.42
3:N:150:ARG:CB	3:N:150:ARG:HH11	2.33	0.42
3:N:166:GLN:OE1	3:N:394:LEU:HD12	2.20	0.42
3:N:361:VAL:O	3:N:382:GLU:HA	2.19	0.42
3:N:659:LYS:O	3:N:659:LYS:HD3	2.19	0.42
3:N:731:LEU:HD22	3:N:779:ALA:O	2.19	0.42
3:N:875:THR:HG22	3:N:879:ARG:HB2	1.99	0.42
3:N:963:TYR:HD2	3:N:1002:LYS:HD3	1.82	0.42
3:N:1194:CYS:HB3	3:N:1373:ARG:NH1	2.34	0.42
1:A:197:LEU:HD23	1:A:197:LEU:N	2.34	0.42
2:C:95:TYR:N	2:C:95:TYR:CD1	2.87	0.42
2:C:108:ILE:HB	2:C:368:THR:HG21	2.00	0.42
2:C:267:TYR:CB	2:C:272:ALA:CB	2.85	0.42
2:C:279:GLU:HG3	2:C:280:LYS:N	2.34	0.42
2:C:739:GLU:OE1	2:C:742:VAL:HB	2.19	0.42
2:C:1006:HIS:CG	2:C:1027:PHE:HD1	2.36	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:142:LEU:HD23	3:D:146:PRO:N	2.35	0.42
3:D:157:GLU:O	3:D:161:LEU:HB2	2.20	0.42
3:D:543:LEU:HD23	3:D:546:ARG:HD2	2.01	0.42
3:D:704:ARG:HH12	3:D:743:ASP:CB	2.33	0.42
3:D:947:ILE:C	3:D:948:THR:CG2	2.92	0.42
3:D:1031:ASN:OD1	3:D:1033:GLN:HB3	2.20	0.42
3:D:1217:ILE:HB	3:D:1480:PHE:HD2	1.83	0.42
1:F:191:ASP:O	1:F:191:ASP:CG	2.60	0.42
1:G:86:VAL:O	1:G:86:VAL:CG1	2.67	0.42
2:H:285:LEU:HD21	2:H:287:GLY:O	2.19	0.42
2:H:292:ARG:HD2	2:H:292:ARG:HA	1.79	0.42
2:H:415:PRO:HD2	2:H:418:LEU:CD1	2.48	0.42
2:H:625:LEU:CD1	2:H:641:PRO:HG3	2.47	0.42
2:H:768:THR:HA	2:H:769:PRO:HD3	1.77	0.42
2:H:930:LYS:HG3	2:H:930:LYS:H	1.70	0.42
2:H:1100:GLN:OE1	3:I:9:ARG:NH2	2.53	0.42
3:I:101:HIS:O	3:I:105:VAL:CG2	2.61	0.42
3:I:101:HIS:O	3:I:102:ILE:C	2.62	0.42
3:I:446:VAL:O	3:I:446:VAL:HG23	2.18	0.42
3:I:498:VAL:HA	3:I:1452:ILE:HG21	2.02	0.42
3:I:979:GLU:O	7:Y:142:THR:CG2	2.68	0.42
3:I:1011:PHE:HZ	3:I:1039:CYS:SG	2.43	0.42
3:I:1401:GLU:OE2	3:I:1402:ALA:N	2.53	0.42
3:I:1440:PHE:HD2	3:I:1441:GLN:N	2.18	0.42
3:I:1467:ILE:H	3:I:1467:ILE:HG13	1.55	0.42
1:K:35:THR:O	1:K:39:PRO:HG2	2.19	0.42
1:K:167:VAL:HG12	1:K:168:ASP:H	1.84	0.42
1:K:176:ARG:HD2	1:K:200:TRP:CE3	2.55	0.42
2:M:457:ALA:HB3	2:M:538:GLN:HA	2.02	0.42
2:M:577:PRO:C	2:M:579:VAL:N	2.76	0.42
2:M:666:LEU:HG	2:M:668:LEU:HD11	2.02	0.42
2:M:854:PRO:C	2:M:856:GLU:N	2.76	0.42
2:M:1056:LYS:CD	3:N:623:VAL:HG13	2.36	0.42
3:N:47:GLU:O	3:N:51:GLY:CA	2.68	0.42
3:N:606:ILE:O	3:N:606:ILE:HG13	2.20	0.42
3:N:653:PHE:N	3:N:653:PHE:CD1	2.88	0.42
3:N:762:GLN:NE2	4:O:20:THR:OG1	2.52	0.42
3:N:880:ILE:CG2	3:N:881:LEU:H	2.32	0.42
3:N:1310:ARG:CB	3:N:1327:ARG:CD	2.89	0.42
4:O:47:LYS:O	4:O:54:LEU:CD1	2.68	0.42
6:Q:7:G:H2'	6:Q:8:C:O4'	2.20	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:X:56:ALA:O	7:X:57:ARG:C	2.62	0.42
7:Y:31:LYS:HG2	7:Y:32:ILE:N	2.34	0.42
1:A:79:ILE:HG13	1:A:80:LEU:N	2.33	0.42
1:A:88:ARG:HD3	1:A:123:MET:CE	2.45	0.42
1:A:107:LYS:NZ	1:A:113:ASP:OD2	2.45	0.42
1:B:96:THR:O	1:B:96:THR:HG23	2.20	0.42
2:C:184:MET:SD	2:C:191:PHE:CE1	3.13	0.42
2:C:191:PHE:CZ	2:C:196:LEU:HB2	2.55	0.42
2:C:230:ARG:HG2	2:C:230:ARG:HH11	1.85	0.42
2:C:374:ASN:O	2:C:377:PRO:HD2	2.20	0.42
2:C:606:VAL:HG21	2:C:645:VAL:HG22	2.01	0.42
2:C:684:PHE:CG	2:C:685:GLU:N	2.85	0.42
2:C:987:ILE:HG23	3:D:948:THR:CG2	2.15	0.42
2:C:1004:LYS:CB	3:D:630:VAL:HG23	2.50	0.42
2:C:1016:ILE:HG13	2:C:1017:THR:HG23	2.02	0.42
3:D:178:LEU:O	3:D:179:VAL:HG23	2.20	0.42
3:D:586:ARG:HA	3:D:586:ARG:HD3	1.85	0.42
3:D:928:ALA:HA	3:D:931:LEU:HD12	2.01	0.42
3:D:1151:ARG:HG2	3:D:1187:PRO:HB2	2.01	0.42
3:D:1375:MET:C	3:D:1376:MET:HG3	2.45	0.42
3:D:1481:VAL:CG1	3:D:1481:VAL:O	2.68	0.42
3:D:1492:LEU:HD22	3:D:1492:LEU:HA	1.90	0.42
1:F:88:ARG:HH12	1:F:90:LEU:HD11	1.84	0.42
1:F:152:PRO:C	1:F:154:GLU:N	2.77	0.42
2:H:130:ASN:C	2:H:132:ALA:H	2.28	0.42
2:H:164:PRO:HD2	2:H:170:PRO:O	2.19	0.42
2:H:172:ILE:HG21	2:H:184:MET:HE3	2.01	0.42
2:H:180:GLY:C	2:H:181:VAL:HG23	2.45	0.42
2:H:329:GLY:HA3	2:H:489:THR:CG2	2.44	0.42
2:H:402:SER:HA	2:H:566:THR:HG23	2.01	0.42
2:H:660:ALA:HB1	2:H:667:ALA:O	2.19	0.42
2:H:742:VAL:CG1	2:H:743:VAL:H	2.33	0.42
2:H:945:ARG:HE	2:H:949:LYS:NZ	2.18	0.42
2:H:957:LYS:HD3	2:H:961:GLU:HB3	2.02	0.42
2:H:1036:GLU:O	2:H:1039:ALA:HB3	2.19	0.42
3:I:833:GLU:C	3:I:834:THR:HG23	2.45	0.42
3:I:1147:ARG:O	3:I:1165:TYR:HA	2.19	0.42
3:I:1448:THR:O	3:I:1451:ALA:HB3	2.19	0.42
1:L:209:GLU:O	1:L:213:GLN:NE2	2.53	0.42
1:L:216:GLU:HA	1:L:219:ARG:NH1	2.35	0.42
2:M:89:THR:HG21	2:M:383:ARG:NH2	2.34	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:149:THR:OG1	2:M:150:PRO:HD2	2.20	0.42
2:M:569:VAL:HG12	2:M:996:LYS:O	2.19	0.42
2:M:662:GLU:O	2:M:663:ASN:HB2	2.20	0.42
2:M:776:SER:HA	2:M:780:GLU:HA	2.01	0.42
2:M:1047:HIS:O	2:M:1051:GLU:HB2	2.19	0.42
3:N:12:LEU:HD21	3:N:104:PHE:CZ	2.54	0.42
3:N:17:LYS:O	3:N:20:SER:HB3	2.20	0.42
3:N:180:LYS:O	3:N:181:ASP:C	2.63	0.42
3:N:473:LEU:HA	3:N:476:GLU:HB2	2.01	0.42
3:N:804:LEU:CD1	3:N:829:VAL:HG11	2.49	0.42
3:N:1024:ALA:HB2	3:N:1035:ILE:HD11	2.01	0.42
3:N:1403:LEU:HD22	3:N:1407:LEU:CD2	2.50	0.42
7:X:49:GLU:O	7:X:53:GLN:HB2	2.20	0.42
1:A:18:ARG:O	1:A:201:THR:OG1	2.37	0.42
2:C:127:PHE:O	2:C:133:ASP:HA	2.19	0.42
2:C:238:LEU:O	2:C:241:LEU:HB2	2.19	0.42
2:C:369:PRO:CG	2:C:370:ALA:H	2.17	0.42
2:C:480:THR:HB	2:C:482:GLU:H	1.85	0.42
2:C:707:ARG:HG3	2:C:826:TYR:CD1	2.55	0.42
3:D:475:LYS:CA	3:D:478:LEU:HG	2.43	0.42
3:D:647:ARG:HH11	3:D:724:GLN:NE2	2.18	0.42
3:D:899:LEU:HD12	3:D:899:LEU:C	2.45	0.42
3:D:1232:PRO:HB2	3:D:1356:TYR:HE2	1.85	0.42
3:D:1258:ARG:NH2	3:D:1351:GLU:HG2	2.27	0.42
1:F:42:ARG:HH12	2:H:857:ASP:CA	2.30	0.42
1:F:96:THR:OG1	1:F:143:ARG:HD2	2.20	0.42
1:G:24:VAL:HG22	1:G:196:THR:CG2	2.49	0.42
1:G:212:ASN:O	1:G:213:GLN:C	2.62	0.42
2:H:77:PRO:HB2	2:H:78:PHE:HD1	1.85	0.42
2:H:889:HIS:HE1	3:I:951:ILE:H	1.68	0.42
2:H:1037:VAL:HG12	2:H:1041:GLU:OE2	2.20	0.42
3:I:39:PRO:HB3	3:I:45:PHE:HB2	2.00	0.42
3:I:129:PHE:HE2	3:I:579:ASP:OD2	2.02	0.42
3:I:131:LYS:HE2	3:I:131:LYS:O	2.20	0.42
3:I:771:SER:HA	3:I:772:PRO:HD3	1.94	0.42
3:I:950:GLY:O	3:I:953:ASP:N	2.48	0.42
3:I:1094:LEU:O	3:I:1098:LEU:HB2	2.20	0.42
4:J:47:LYS:C	4:J:54:LEU:HD13	2.45	0.42
1:K:12:THR:C	1:K:13:VAL:HG23	2.45	0.42
1:K:180:GLN:HE21	1:K:180:GLN:HB3	1.56	0.42
1:L:14:ARG:HB2	1:L:22:GLU:HB2	2.02	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:290:LEU:CD1	2:M:303:PHE:HE1	2.32	0.42
2:M:317:VAL:N	2:M:318:PRO:HD3	2.34	0.42
2:M:450:GLY:HA2	3:N:1078:ARG:NH1	2.35	0.42
2:M:545:ASN:HB3	2:M:583:LEU:HD22	2.02	0.42
2:M:735:ARG:HG2	2:M:735:ARG:HH11	1.85	0.42
2:M:1012:PRO:CD	2:M:1026:GLN:HB2	2.50	0.42
3:N:134:VAL:CG1	3:N:135:LEU:H	2.33	0.42
3:N:1305:LEU:N	3:N:1305:LEU:CD2	2.83	0.42
3:N:1353:GLN:O	3:N:1355:VAL:N	2.53	0.42
1:A:122:ILE:N	1:A:122:ILE:HD12	2.35	0.41
1:A:134:GLU:C	1:A:136:GLY:N	2.78	0.41
2:C:140:ILE:HG13	2:C:410:ILE:HG23	2.02	0.41
2:C:572:ILE:HD12	2:C:573:ARG:N	2.16	0.41
2:C:744:ARG:CG	2:C:747:ALA:HB2	2.41	0.41
2:C:878:SER:C	3:D:1034:GLN:HE22	2.28	0.41
3:D:33:ASN:HB2	3:D:40:GLU:OE2	2.19	0.41
3:D:421:LEU:HB2	3:D:427:VAL:O	2.20	0.41
3:D:638:LYS:C	3:D:729:HIS:HD2	2.28	0.41
3:D:654:LYS:HB3	3:D:655:PRO:CD	2.42	0.41
3:D:885:ILE:HD12	3:D:937:TYR:CZ	2.55	0.41
3:D:1036:ARG:O	3:D:1041:LEU:N	2.52	0.41
3:D:1122:LEU:HD12	3:D:1122:LEU:N	2.35	0.41
3:D:1192:LEU:HG	3:D:1369:GLU:HB3	2.02	0.41
3:D:1219:GLU:O	3:D:1221:VAL:N	2.49	0.41
1:F:20:TYR:CD2	1:F:21:GLY:N	2.87	0.41
1:F:70:GLY:H	2:H:607:ASP:CG	2.24	0.41
1:F:178:ALA:HB2	2:H:864:GLY:H	1.84	0.41
1:G:86:VAL:CG1	1:G:124:ASN:ND2	2.79	0.41
2:H:88:LEU:HA	2:H:88:LEU:HD22	1.76	0.41
2:H:90:TYR:CE1	2:H:120:LEU:HB2	2.55	0.41
2:H:111:ASP:O	2:H:112:GLU:OE1	2.38	0.41
2:H:115:LEU:HD11	2:H:378:LEU:HB2	2.02	0.41
2:H:662:GLU:O	2:H:663:ASN:HB2	2.19	0.41
2:H:856:GLU:HB2	2:H:857:ASP:OD1	2.20	0.41
3:I:41:ARG:HD2	3:I:42:ASP:N	2.35	0.41
3:I:57:GLU:HB2	3:I:64:LYS:HG3	2.02	0.41
3:I:142:LEU:HA	3:I:145:VAL:O	2.19	0.41
3:I:699:VAL:HB	3:I:716:PHE:O	2.20	0.41
3:I:800:LYS:HE2	3:I:824:ASN:O	2.18	0.41
3:I:1135:ARG:HE	3:I:1140:ILE:HD13	1.85	0.41
3:I:1168:MET:HA	3:I:1168:MET:HE3	2.01	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:1434:TRP:CG	3:I:1435:LEU:N	2.88	0.41
3:I:1481:VAL:O	3:I:1483:PHE:N	2.53	0.41
1:L:115:LEU:O	1:L:115:LEU:CD1	2.62	0.41
1:L:212:ASN:O	1:L:213:GLN:C	2.63	0.41
1:L:223:THR:C	1:L:225:PHE:H	2.28	0.41
2:M:498:GLN:HE21	2:M:499:ALA:N	2.17	0.41
2:M:776:SER:HA	2:M:780:GLU:HB3	2.02	0.41
2:M:850:ALA:HA	3:N:632:VAL:HG13	2.00	0.41
2:M:943:VAL:CG1	2:M:944:LEU:N	2.82	0.41
2:M:966:LEU:HD11	2:M:986:PRO:HG2	2.02	0.41
2:M:1090:LYS:HD2	3:N:90:MET:SD	2.60	0.41
3:N:119:SER:O	3:N:120:ALA:C	2.63	0.41
3:N:133:ILE:HD12	3:N:158:TYR:HD2	1.85	0.41
3:N:143:ASN:ND2	3:N:145:VAL:HG12	2.33	0.41
3:N:550:ARG:CD	3:N:573:MET:HE2	2.50	0.41
3:N:700:VAL:HG13	3:N:718:PRO:HG3	2.02	0.41
3:N:851:LEU:N	3:N:851:LEU:HD23	2.35	0.41
3:N:1081:GLY:O	3:N:1082:ALA:C	2.63	0.41
3:N:1147:ARG:HH12	3:N:1190:SER:HB2	1.85	0.41
3:N:1387:SER:HB3	3:N:1391:GLU:OE2	2.20	0.41
7:Y:68:ILE:HD13	7:Y:108:ALA:CB	2.50	0.41
2:C:211:LEU:HD11	2:C:311:PHE:CD1	2.56	0.41
2:C:343:GLN:O	2:C:346:VAL:HB	2.19	0.41
2:C:689:VAL:HG11	2:C:853:LEU:HD22	2.02	0.41
2:C:853:LEU:HB3	2:C:858:MET:HE3	2.01	0.41
2:C:881:ASN:O	2:C:884:GLN:HG2	2.20	0.41
3:D:132:TYR:N	3:D:132:TYR:CD1	2.87	0.41
3:D:615:ARG:O	3:D:619:LEU:HG	2.20	0.41
3:D:907:GLU:O	3:D:911:LEU:CD1	2.63	0.41
3:D:997:THR:HG23	7:X:57:ARG:HH12	1.85	0.41
3:D:1220:ALA:HB1	3:D:1223:ILE:CG1	2.50	0.41
3:D:1287:GLU:O	3:D:1289:LYS:N	2.53	0.41
3:D:1360:GLY:CA	7:X:34:GLN:HB2	2.50	0.41
4:E:14:ASP:OD2	4:E:18:ARG:NH2	2.54	0.41
1:F:68:ILE:N	1:F:68:ILE:CD1	2.80	0.41
2:H:17:PRO:HB2	2:H:20:GLU:HB3	2.01	0.41
2:H:159:ILE:CG2	2:H:175:GLU:HG3	2.49	0.41
2:H:205:GLU:O	2:H:206:THR:C	2.62	0.41
2:H:247:PRO:HA	2:H:248:PRO:HD3	1.74	0.41
2:H:451:LEU:O	2:H:452:ILE:HD12	2.21	0.41
2:H:886:LEU:HA	2:H:886:LEU:HD12	1.51	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1012:PRO:HD3	2:H:1026:GLN:HB2	2.02	0.41
2:H:1051:GLU:CD	3:I:751:LEU:H	2.27	0.41
2:H:1092:LEU:O	2:H:1097:LEU:O	2.38	0.41
3:I:551:ASN:O	3:I:555:LYS:HG3	2.20	0.41
3:I:925:GLU:OE2	4:J:6:ILE:N	2.53	0.41
3:I:1405:GLU:OE2	3:I:1411:GLY:O	2.38	0.41
4:J:30:LEU:CD2	4:J:63:TRP:HB2	2.46	0.41
4:J:47:LYS:CA	4:J:54:LEU:HB3	2.44	0.41
1:K:18:ARG:NH1	1:K:88:ARG:NE	2.68	0.41
1:K:56:VAL:CG1	1:K:57:TYR:H	2.32	0.41
1:K:63:HIS:CD2	1:K:66:SER:HB2	2.55	0.41
1:K:199:ILE:HG13	1:K:207:PRO:HB3	2.02	0.41
1:L:76:VAL:O	1:L:79:ILE:HG12	2.20	0.41
2:M:35:PRO:C	2:M:37:GLU:H	2.27	0.41
2:M:195:LEU:HG	2:M:238:LEU:CG	2.41	0.41
2:M:218:VAL:C	2:M:220:GLY:N	2.78	0.41
2:M:301:GLU:O	2:M:301:GLU:HG2	2.20	0.41
2:M:670:GLN:HB2	2:M:700:TYR:HE1	1.84	0.41
2:M:717:LEU:O	2:M:761:PHE:CD2	2.73	0.41
3:N:133:ILE:CG2	3:N:134:VAL:H	2.34	0.41
3:N:178:LEU:C	3:N:179:VAL:HG23	2.45	0.41
3:N:210:ARG:HB2	3:N:389:GLU:CD	2.45	0.41
3:N:366:LYS:CE	3:N:369:ALA:HB2	2.33	0.41
3:N:646:LYS:HE3	3:N:647:ARG:HE	1.85	0.41
3:N:646:LYS:O	3:N:649:ALA:HB3	2.20	0.41
3:N:701:LEU:N	3:N:701:LEU:CD1	2.77	0.41
3:N:711:LEU:C	3:N:713:ILE:H	2.28	0.41
3:N:771:SER:HA	3:N:772:PRO:HD3	1.88	0.41
3:N:954:ALA:HA	3:N:1020:LEU:CD2	2.51	0.41
3:N:1258:ARG:O	3:N:1262:LEU:HB2	2.19	0.41
3:N:1272:ALA:HB1	3:N:1326:THR:HB	2.01	0.41
3:N:1363:LEU:O	3:N:1363:LEU:HG	2.18	0.41
3:N:1380:GLU:CG	3:N:1381:VAL:N	2.84	0.41
4:O:35:PHE:HE2	4:O:63:TRP:CZ2	2.38	0.41
7:X:43:TYR:O	7:X:45:ASP:N	2.53	0.41
7:Z:35:GLU:O	7:Z:38:GLU:HB2	2.20	0.41
1:A:163:ASN:HD22	1:A:163:ASN:HA	1.62	0.41
2:C:6:PHE:HE2	2:C:917:LEU:HD11	1.85	0.41
2:C:25:SER:O	2:C:29:ALA:HB2	2.20	0.41
2:C:56:GLU:HG2	2:C:356:ARG:CG	2.36	0.41
2:C:414:GLY:C	2:C:416:GLY:N	2.77	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:451:LEU:HD23	2:C:451:LEU:HA	1.80	0.41
2:C:586:ARG:O	2:C:587:VAL:C	2.63	0.41
2:C:678:PRO:CD	3:D:947:ILE:HD11	2.49	0.41
3:D:388:HIS:C	3:D:390:PRO:HD3	2.38	0.41
3:D:1025:GLN:NE2	3:D:1025:GLN:CA	2.73	0.41
3:D:1055:VAL:HA	3:D:1056:PRO:HD3	1.79	0.41
3:D:1094:LEU:CG	3:D:1098:LEU:CD1	2.93	0.41
3:D:1109:GLU:OE1	3:D:1111:ASP:N	2.53	0.41
3:D:1198:TYR:OH	3:D:1394:VAL:HG11	2.19	0.41
3:D:1207:TYR:HA	3:D:1214:PRO:HA	2.02	0.41
3:D:1256:LEU:HB3	3:D:1257:PRO:HD3	2.01	0.41
1:G:190:THR:O	1:G:190:THR:CG2	2.68	0.41
2:H:191:PHE:HE2	2:H:195:LEU:CB	2.31	0.41
2:H:984:GLU:CG	3:I:944:THR:O	2.66	0.41
2:H:1106:ASP:OD1	3:I:7:LYS:CD	2.63	0.41
3:I:38:LYS:HE2	3:I:38:LYS:HB3	1.71	0.41
3:I:727:GLN:HE21	3:I:727:GLN:HB3	1.68	0.41
3:I:806:PHE:CE1	3:I:809:PRO:O	2.74	0.41
3:I:814:ALA:O	3:I:818:ARG:HG3	2.19	0.41
3:I:835:SER:C	3:I:837:GLY:N	2.77	0.41
1:K:41:ARG:HG3	1:K:177:VAL:HG11	2.02	0.41
1:K:68:ILE:HA	1:K:69:PRO:HD3	1.83	0.41
1:L:54:THR:CG2	1:L:158:ILE:HG13	2.49	0.41
2:M:141:HIS:O	2:M:331:ARG:HA	2.20	0.41
2:M:253:ALA:HA	2:M:256:TYR:HB3	2.01	0.41
2:M:630:ARG:CG	2:M:630:ARG:NH1	2.82	0.41
2:M:679:PHE:CE2	2:M:853:LEU:HD21	2.55	0.41
2:M:1097:LEU:HD12	3:N:10:ILE:HG23	2.02	0.41
3:N:482:LYS:C	3:N:483:HIS:HD2	2.28	0.41
3:N:734:GLU:OE1	7:Z:38:GLU:O	2.37	0.41
3:N:762:GLN:H	3:N:762:GLN:HG2	1.63	0.41
7:X:128:ALA:HB3	7:X:140:LEU:HD11	2.02	0.41
7:Z:84:GLY:HA2	7:Z:130:LEU:CD1	2.50	0.41
1:B:108:GLU:OE1	1:B:128:HIS:NE2	2.53	0.41
2:C:10:ARG:HA	2:C:10:ARG:HD3	1.93	0.41
2:C:64:LEU:HB2	2:C:359:MET:CE	2.49	0.41
2:C:84:ARG:NE	2:C:133:ASP:OD2	2.25	0.41
2:C:269:LEU:HG	2:C:287:GLY:O	2.20	0.41
2:C:275:TYR:C	2:C:277:ALA:H	2.28	0.41
2:C:355:VAL:O	2:C:355:VAL:HG22	2.19	0.41
2:C:358:ARG:NH2	2:C:374:ASN:HB3	2.17	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:443:THR:HA	2:C:444:PRO:HD3	1.76	0.41
2:C:759:THR:HB	2:C:785:VAL:HG22	2.02	0.41
2:C:971:LYS:HA	2:C:988:VAL:HA	2.03	0.41
2:C:1024:LYS:HE3	2:C:1024:LYS:HA	2.02	0.41
3:D:93:ILE:HD13	3:D:548:ILE:HD13	2.01	0.41
3:D:470:LEU:HD12	3:D:503:LEU:HD23	2.02	0.41
3:D:477:LEU:HD22	3:D:492:ALA:CB	2.46	0.41
3:D:543:LEU:HD22	3:D:580:ALA:HB1	2.02	0.41
3:D:642:CYS:HB3	3:D:716:PHE:CG	2.55	0.41
3:D:647:ARG:NH1	3:D:724:GLN:NE2	2.68	0.41
3:D:789:LEU:HD13	3:D:934:LEU:HD22	2.01	0.41
3:D:794:GLN:O	3:D:861:GLN:HB3	2.21	0.41
3:D:1225:ALA:HB2	3:D:1370:ILE:CD1	2.49	0.41
3:D:1375:MET:O	3:D:1376:MET:HG3	2.21	0.41
1:F:178:ALA:HB2	2:H:864:GLY:N	2.36	0.41
2:H:185:LYS:HE2	2:H:188:LYS:HA	2.00	0.41
2:H:470:PRO:O	2:H:534:VAL:HG23	2.20	0.41
2:H:669:GLY:C	2:H:670:GLN:HG2	2.46	0.41
3:I:179:VAL:CG2	3:I:189:GLN:NE2	2.83	0.41
3:I:423:ASP:OD1	3:I:423:ASP:N	2.53	0.41
3:I:818:ARG:C	3:I:820:GLU:N	2.75	0.41
3:I:1131:SER:C	3:I:1132:LEU:HD12	2.44	0.41
3:I:1397:LYS:CD	3:I:1432:LYS:NZ	2.83	0.41
4:J:25:LYS:O	4:J:29:GLN:HG3	2.21	0.41
1:K:84:GLU:O	1:K:124:ASN:ND2	2.54	0.41
1:K:132:LEU:CD2	1:K:136:GLY:O	2.67	0.41
1:K:227:ASN:HA	1:K:228:PRO:HD3	1.75	0.41
1:L:97:VAL:CG1	1:L:98:THR:N	2.84	0.41
2:M:332:ARG:CG	2:M:464:LEU:O	2.67	0.41
2:M:437:ARG:HG2	2:M:467:ILE:O	2.20	0.41
2:M:1070:ILE:CG2	3:N:655:PRO:HB2	2.51	0.41
2:M:1081:VAL:O	2:M:1081:VAL:HG12	2.20	0.41
3:N:55:ASP:O	3:N:56:TYR:CB	2.66	0.41
3:N:141:ILE:HD13	3:N:142:LEU:O	2.19	0.41
3:N:399:ARG:HD2	3:N:401:TYR:OH	2.20	0.41
3:N:438:ASP:OD2	3:N:445:ARG:NH1	2.54	0.41
3:N:489:ARG:CG	3:N:490:ALA:N	2.83	0.41
3:N:592:THR:HG22	3:N:593:ASN:N	2.35	0.41
3:N:977:ALA:CB	3:N:983:LEU:HD21	2.50	0.41
3:N:1021:TYR:CE2	3:N:1025:GLN:HG3	2.56	0.41
3:N:1026:SER:O	3:N:1028:ALA:N	2.53	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1217:ILE:HB	3:N:1480:PHE:CD2	2.56	0.41
3:N:1272:ALA:CB	3:N:1326:THR:HB	2.51	0.41
3:N:1408:ILE:HD12	3:N:1408:ILE:N	2.36	0.41
4:O:54:LEU:CD2	4:O:58:PRO:HG2	2.46	0.41
7:Y:61:ARG:HG2	7:Y:61:ARG:NH2	2.35	0.41
7:Z:7:LEU:O	7:Z:74:ILE:HA	2.20	0.41
7:Z:82:VAL:CG1	7:Z:83:ILE:N	2.83	0.41
1:A:65:PHE:CD1	1:A:65:PHE:N	2.88	0.41
2:C:3:ILE:N	2:C:3:ILE:CD1	2.83	0.41
2:C:54:ILE:CD1	2:C:355:VAL:HG13	2.47	0.41
2:C:64:LEU:CD1	2:C:359:MET:HG3	2.50	0.41
2:C:153:ALA:O	2:C:155:PRO:CD	2.69	0.41
2:C:199:VAL:HG13	2:C:235:LEU:HG	2.03	0.41
2:C:272:ALA:O	2:C:276:LYS:NZ	2.38	0.41
2:C:344:PHE:CD2	2:C:378:LEU:HD11	2.56	0.41
2:C:344:PHE:HD2	2:C:378:LEU:HD11	1.86	0.41
2:C:431:HIS:N	2:C:434:HIS:CE1	2.72	0.41
2:C:695:LEU:HD21	2:C:832:LYS:HD3	2.03	0.41
2:C:976:ASP:HB3	2:C:979:THR:HG22	2.01	0.41
2:C:1031:ARG:HG2	2:C:1032:PHE:N	2.35	0.41
2:C:1097:LEU:HD13	3:D:1451:ALA:HB2	1.98	0.41
2:C:1100:GLN:HE21	2:C:1100:GLN:CA	2.33	0.41
3:D:97:THR:HB	3:D:571:LYS:HD2	2.02	0.41
3:D:133:ILE:HD12	3:D:158:TYR:CD2	2.55	0.41
3:D:136:ASP:H	3:D:137:PRO:CD	2.33	0.41
3:D:387:LEU:N	3:D:387:LEU:CD1	2.77	0.41
3:D:630:VAL:HG12	3:D:631:ILE:N	2.35	0.41
3:D:664:LYS:C	3:D:666:ILE:H	2.26	0.41
3:D:834:THR:HB	3:D:838:ARG:CD	2.32	0.41
3:D:1015:TYR:N	3:D:1016:PRO:HD3	2.35	0.41
3:D:1020:LEU:HD12	3:D:1020:LEU:HA	1.69	0.41
3:D:1488:ASP:O	3:D:1489:GLN:C	2.63	0.41
4:E:47:LYS:HB3	4:E:55:PHE:HE2	1.86	0.41
1:F:32:PHE:HA	1:F:35:THR:OG1	2.19	0.41
1:F:195:LEU:HD12	1:F:196:THR:N	2.35	0.41
2:H:972:VAL:HG22	2:H:989:VAL:CG2	2.50	0.41
2:H:1010:THR:HG22	2:H:1011:GLY:N	2.36	0.41
2:H:1067:TYR:O	2:H:1071:ILE:HG13	2.20	0.41
3:I:1115:THR:HG21	3:I:1151:ARG:HH21	1.85	0.41
3:I:1318:TYR:CD1	3:I:1319:VAL:N	2.89	0.41
3:I:1459:LEU:HB2	3:I:1470:ARG:HH22	1.85	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:J:40:LEU:HD23	4:J:67:GLU:HA	2.00	0.41
1:K:219:ARG:O	1:K:222:LEU:HB2	2.20	0.41
2:M:35:PRO:C	2:M:37:GLU:N	2.78	0.41
2:M:224:GLU:OE1	2:M:224:GLU:HA	2.21	0.41
2:M:449:ILE:HG12	2:M:450:GLY:N	2.35	0.41
2:M:1042:ALA:CB	3:N:1227:GLN:NE2	2.82	0.41
3:N:160:GLU:OE2	3:N:165:LYS:HD2	2.21	0.41
3:N:486:ARG:HA	3:N:489:ARG:HD3	2.02	0.41
3:N:610:LYS:O	3:N:615:ARG:HG2	2.21	0.41
3:N:770:LEU:CD2	3:N:775:GLY:O	2.69	0.41
3:N:986:ARG:O	3:N:989:TYR:HB3	2.20	0.41
3:N:1007:VAL:HG12	3:N:1011:PHE:HE2	1.83	0.41
3:N:1031:ASN:OD1	3:N:1033:GLN:HB3	2.20	0.41
3:N:1219:GLU:O	3:N:1221:VAL:N	2.48	0.41
3:N:1256:LEU:HG	3:N:1260:ILE:HD11	2.02	0.41
3:N:1406:ARG:HH11	3:N:1406:ARG:HG3	1.86	0.41
3:N:1488:ASP:C	3:N:1490:LYS:N	2.75	0.41
4:O:54:LEU:O	4:O:58:PRO:HD3	2.21	0.41
7:X:57:ARG:HG2	7:X:57:ARG:HH21	1.84	0.41
7:Y:41:ASP:HB3	7:Y:42:ASP:H	1.71	0.41
7:Y:48:LEU:CD1	7:Y:52:LYS:HE2	2.50	0.41
7:Z:48:LEU:HD12	7:Z:52:LYS:CE	2.51	0.41
1:B:55:SER:OG	1:B:158:ILE:HB	2.20	0.41
1:B:106:PRO:HA	1:B:132:LEU:O	2.20	0.41
2:C:206:THR:HG23	2:C:207:LEU:H	1.86	0.41
2:C:516:ARG:HG3	3:D:1068:LEU:CD1	2.51	0.41
2:C:799:ILE:N	2:C:799:ILE:CD1	2.75	0.41
3:D:508:ARG:CB	3:D:509:PRO:HD2	2.49	0.41
3:D:672:ALA:O	3:D:676:MET:HB2	2.20	0.41
3:D:813:LEU:HD12	3:D:814:ALA:CA	2.51	0.41
3:D:1021:TYR:O	3:D:1022:VAL:C	2.63	0.41
3:D:1025:GLN:O	3:D:1026:SER:C	2.63	0.41
3:D:1254:GLN:H	3:D:1254:GLN:HG3	1.65	0.41
1:F:83:LYS:HB3	1:F:83:LYS:HE2	1.89	0.41
2:H:52:PHE:CZ	2:H:53:PRO:HG3	2.56	0.41
2:H:414:GLY:C	2:H:416:GLY:N	2.78	0.41
2:H:862:PRO:HB3	2:H:929:ARG:NH2	2.24	0.41
3:I:26:VAL:HG11	3:I:44:LEU:HD12	2.01	0.41
3:I:882:PHE:CE2	3:I:906:GLN:CD	2.99	0.41
3:I:1129:THR:CG2	3:I:1130:ARG:N	2.76	0.41
3:I:1402:ALA:HB2	3:I:1415:VAL:HG23	2.03	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:1447:LEU:N	3:I:1447:LEU:HD12	2.35	0.41
4:J:19:LEU:O	4:J:19:LEU:HD12	2.20	0.41
1:K:107:LYS:HG2	1:K:108:GLU:H	1.84	0.41
1:K:189:ARG:CG	1:K:191:ASP:OD1	2.67	0.41
1:K:206:THR:HG23	1:K:209:GLU:H	1.84	0.41
2:M:52:PHE:CD1	2:M:68:PHE:N	2.88	0.41
2:M:124:ASP:OD1	2:M:125:GLY:N	2.54	0.41
2:M:158:TYR:CD1	2:M:313:LEU:HD21	2.56	0.41
2:M:442:GLU:OE2	2:M:543:ASN:HB3	2.21	0.41
2:M:501:THR:HA	2:M:502:PRO:HD3	1.79	0.41
2:M:925:TYR:CD2	2:M:925:TYR:O	2.74	0.41
3:N:12:LEU:HD23	3:N:12:LEU:HA	1.75	0.41
3:N:575:GLN:O	3:N:579:ASP:OD2	2.39	0.41
3:N:892:ASP:HB3	3:N:895:VAL:HG23	2.01	0.41
3:N:1045:MET:HG3	3:N:1073:SER:HA	2.03	0.41
3:N:1055:VAL:CG1	3:N:1056:PRO:N	2.82	0.41
3:N:1191:PRO:C	3:N:1193:THR:N	2.79	0.41
4:O:24:ALA:O	4:O:27:ALA:N	2.52	0.41
7:Y:32:ILE:O	7:Y:35:GLU:HB2	2.21	0.41
1:A:43:ILE:HG13	1:A:43:ILE:H	1.61	0.41
1:B:76:VAL:O	1:B:80:LEU:HB2	2.20	0.41
2:C:68:PHE:CD1	2:C:69:LEU:N	2.89	0.41
2:C:83:CYS:HA	2:C:88:LEU:HB3	2.03	0.41
2:C:110:GLU:HG3	2:C:369:PRO:HG3	2.03	0.41
2:C:142:ARG:HE	2:C:325:ILE:HG23	1.85	0.41
2:C:352:ALA:C	2:C:355:VAL:HG12	2.45	0.41
2:C:395:LYS:HE3	2:C:407:LYS:HD2	2.02	0.41
2:C:508:ILE:HG22	2:C:509:ALA:N	2.35	0.41
2:C:559:LEU:O	2:C:560:MET:C	2.63	0.41
3:D:50:PHE:CG	3:D:522:PRO:CD	3.04	0.41
3:D:180:LYS:HD2	3:D:180:LYS:N	2.36	0.41
3:D:355:VAL:HG21	3:D:367:ILE:HG23	2.02	0.41
3:D:358:GLY:HA2	3:D:385:VAL:C	2.43	0.41
3:D:501:ALA:HB1	3:D:1453:ALA:CA	2.51	0.41
3:D:701:LEU:O	3:D:702:LEU:HD12	2.20	0.41
3:D:949:ILE:HD11	3:D:1023:MET:CE	2.29	0.41
3:D:1007:VAL:HG11	3:D:1039:CYS:HB2	2.03	0.41
3:D:1418:LYS:O	3:D:1419:PRO:C	2.63	0.41
4:E:26:ARG:NH2	4:E:67:GLU:OE2	2.54	0.41
2:H:468:ARG:HB3	2:H:485:TYR:HB3	2.02	0.41
2:H:511:GLU:O	2:H:526: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:H:603:VAL:CG2	2:H:647:GLN:HB3	2.51	0.41
2:H:897:LEU:HB3	2:H:899:GLN:NE2	2.26	0.41
3:I:139:GLY:CA	3:I:162:ARG:NH2	2.81	0.41
3:I:833:GLU:O	3:I:834:THR:CG2	2.68	0.41
3:I:996:TRP:O	3:I:999:THR:N	2.54	0.41
3:I:1145:TYR:O	3:I:1147:ARG:HG2	2.21	0.41
3:I:1156:LEU:HD23	3:I:1156:LEU:HA	1.74	0.41
3:I:1192:LEU:HD11	3:I:1369:GLU:HG2	2.02	0.41
3:I:1251:ASP:N	3:I:1251:ASP:OD2	2.53	0.41
2:M:148:PHE:HE1	2:M:309:TYR:CD2	2.35	0.41
2:M:274:ARG:CG	2:M:285:LEU:HB3	2.49	0.41
2:M:328:LEU:C	2:M:330:ASN:N	2.78	0.41
2:M:609:ASN:HD22	2:M:609:ASN:HA	1.65	0.41
2:M:903:SER:OG	2:M:908:GLY:HA3	2.20	0.41
3:N:3:LYS:HB3	3:N:4:GLU:H	1.60	0.41
3:N:17:LYS:CG	3:N:21:TRP:HE1	2.30	0.41
3:N:215:TYR:O	3:N:215:TYR:CD2	2.73	0.41
3:N:598:ARG:HA	3:N:599:PRO:HD3	1.91	0.41
3:N:788:GLY:O	3:N:792:ILE:HG22	2.21	0.41
3:N:950:GLY:O	3:N:951:ILE:C	2.64	0.41
3:N:997:THR:C	3:N:1000:THR:HG22	2.46	0.41
3:N:1066:THR:HG23	3:N:1069:GLU:N	2.32	0.41
7:X:57:ARG:HH22	7:X:61:ARG:HD2	1.85	0.41
7:Z:103:GLN:OE1	7:Z:116:PRO:HG2	2.21	0.41
7:Z:123:SER:OG	7:Z:124:PRO:HD2	2.19	0.41
1:B:183:ASP:HA	1:B:192:LEU:O	2.21	0.41
2:C:43:GLY:O	2:C:44:ILE:C	2.63	0.41
2:C:258:TYR:CZ	2:C:264:PRO:HG3	2.55	0.41
2:C:328:LEU:HD13	2:C:328:LEU:H	1.86	0.41
2:C:336:VAL:O	2:C:337:GLY:C	2.64	0.41
2:C:367:LEU:CD2	2:C:371:LYS:HE3	2.43	0.41
2:C:843:HIS:CD2	2:C:884:GLN:CA	3.03	0.41
2:C:922:PHE:HZ	2:C:963:LEU:HB3	1.85	0.41
2:C:1034:GLU:OE1	2:C:1038:TRP:HZ2	2.04	0.41
3:D:26:VAL:HG21	3:D:519:VAL:HG21	2.01	0.41
3:D:171:LEU:HD22	3:D:172:PRO:HD2	1.98	0.41
3:D:181:ASP:OD1	3:D:441:ARG:NE	2.53	0.41
3:D:497:GLU:O	3:D:498:VAL:C	2.63	0.41
3:D:841:TYR:CD2	3:D:841:TYR:N	2.87	0.41
3:D:1041:LEU:HD23	3:D:1041:LEU:C	2.46	0.41
3:D:1160:LEU:CD2	3:D:1164:ARG:HH11	2.33	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1206:GLY:O	3:D:1215:VAL:HG23	2.21	0.41
3:D:1462:LEU:O	3:D:1466:VAL:HG23	2.21	0.41
1:F:102:LYS:HD3	1:F:139:ASN:ND2	2.35	0.41
1:G:16:GLN:HA	1:G:16:GLN:NE2	2.36	0.41
2:H:26:TYR:CD2	2:H:121:MET:HB2	2.55	0.41
2:H:368:THR:HG22	2:H:369:PRO:N	2.36	0.41
2:H:501:THR:CG2	2:H:513:VAL:HG13	2.51	0.41
2:H:587:VAL:O	2:H:588:VAL:C	2.62	0.41
2:H:865:THR:HA	2:H:866:PRO:HD3	1.69	0.41
2:H:958:THR:O	2:H:959:PRO:C	2.64	0.41
3:I:181:ASP:OD1	3:I:441:ARG:CZ	2.68	0.41
3:I:590:PRO:O	3:I:600:LEU:CD1	2.69	0.41
3:I:600:LEU:H	3:I:600:LEU:CD1	2.15	0.41
3:I:646:LYS:HG3	3:I:647:ARG:HG3	2.02	0.41
3:I:1020:LEU:HA	3:I:1020:LEU:HD12	1.73	0.41
3:I:1045:MET:HG3	3:I:1073:SER:HA	2.03	0.41
3:I:1097:LYS:O	3:I:1100:ASP:N	2.53	0.41
3:I:1168:MET:HG3	3:I:1172:HIS:CE1	2.56	0.41
3:I:1276:GLU:HA	3:I:1338:ALA:HB2	2.01	0.41
3:I:1277:ILE:HD13	3:I:1277:ILE:HA	1.97	0.41
3:I:1428:ALA:O	3:I:1429:LEU:C	2.64	0.41
3:I:1434:TRP:CD1	3:I:1434:TRP:C	2.99	0.41
3:I:1462:LEU:HD23	3:I:1473:PRO:HD2	2.03	0.41
4:J:46:PRO:CB	4:J:54:LEU:HD22	2.51	0.41
1:K:127:LEU:HD12	1:K:128:HIS:N	2.35	0.41
1:K:156:HIS:HB2	1:K:158:ILE:HD11	2.03	0.41
2:M:94:LEU:O	2:M:94:LEU:HG	2.18	0.41
2:M:188:LYS:HB2	2:M:188:LYS:NZ	2.34	0.41
2:M:542:VAL:O	2:M:543:ASN:C	2.64	0.41
2:M:1043:TYR:CE2	3:N:763:MET:HA	2.56	0.41
2:M:1063:ARG:NH2	3:N:625:TYR:CZ	2.89	0.41
2:M:1088:LEU:O	2:M:1089:VAL:C	2.63	0.41
3:N:496:LEU:HA	3:N:499:VAL:CG2	2.51	0.41
3:N:727:GLN:HE21	3:N:727:GLN:HB3	1.60	0.41
3:N:778:LEU:HD12	3:N:778:LEU:HA	1.83	0.41
3:N:907:GLU:N	3:N:910:SER:OG	2.44	0.41
3:N:1347:TYR:HD2	3:N:1348:LEU:HD12	1.86	0.41
3:N:1377:LYS:HG2	3:N:1378:TYR:CD1	2.55	0.41
7:X:6:LYS:HG2	7:X:75:LEU:HD11	2.02	0.41
7:Z:99:ARG:CG	7:Z:99:ARG:NH1	2.83	0.41
1:A:14:ARG:HH22	1:A:24:VAL:CG2	2.33	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:39:PRO:HG3	1:B:39:PRO:CG	2.49	0.41
1:A:132:LEU:CD2	1:A:136:GLY:O	2.65	0.41
1:B:51:THR:HG22	1:B:89:PHE:CE2	2.55	0.41
1:B:54:THR:C	1:B:167:VAL:HG23	2.46	0.41
1:B:84:GLU:HB3	1:B:127:LEU:HD21	2.02	0.41
1:B:143:ARG:HH11	1:B:158:ILE:HG23	1.86	0.41
1:B:198:ARG:H	1:B:198:ARG:HG2	1.50	0.41
2:C:13:ILE:HA	2:C:14:PRO:HD3	1.93	0.41
2:C:69:LEU:CD1	2:C:109:LYS:HE3	2.51	0.41
2:C:83:CYS:HB3	2:C:88:LEU:O	2.20	0.41
2:C:170:PRO:CD	2:C:263:ASP:HB3	2.49	0.41
2:C:224:GLU:O	2:C:228:ALA:CB	2.51	0.41
2:C:265:ARG:N	2:C:289:THR:HG21	2.35	0.41
2:C:397:GLU:HG2	2:C:403:SER:HB3	2.03	0.41
2:C:511:GLU:O	2:C:526:PRO:HD3	2.21	0.41
2:C:516:ARG:CD	3:D:1068:LEU:HD22	2.51	0.41
2:C:587:VAL:O	2:C:588:VAL:C	2.64	0.41
2:C:604:ALA:HB3	2:C:612:VAL:O	2.21	0.41
2:C:691:SER:HB2	2:C:858:MET:SD	2.60	0.41
2:C:706:GLU:OE2	2:C:706:GLU:HA	2.20	0.41
2:C:806:LEU:HD12	2:C:822:VAL:CG2	2.50	0.41
2:C:841:ASN:ND2	2:C:843:HIS:HB2	2.35	0.41
2:C:863:ASP:OD1	2:C:865:THR:HG22	2.20	0.41
2:C:1013:TYR:CE1	2:C:1020:PRO:HG3	2.56	0.41
2:C:1013:TYR:HA	2:C:1019:GLN:O	2.21	0.41
2:C:1054:THR:HG21	2:C:1082:PRO:HG3	2.03	0.41
2:C:1090:LYS:CE	3:D:90:MET:CG	2.78	0.41
3:D:17:LYS:HG2	3:D:21:TRP:NE1	2.35	0.41
3:D:116:LEU:O	3:D:117:ASP:CB	2.69	0.41
3:D:130:SER:O	3:D:568:ARG:NH2	2.47	0.41
3:D:190:GLU:C	3:D:192:ALA:H	2.28	0.41
3:D:436:GLU:OE1	3:D:447:VAL:HG13	2.20	0.41
3:D:470:LEU:O	3:D:471:GLU:C	2.64	0.41
3:D:638:LYS:O	3:D:640:HIS:N	2.54	0.41
3:D:660:LYS:HZ2	3:D:663:GLU:HG3	1.85	0.41
3:D:701:LEU:HD11	3:D:750:PRO:CG	2.49	0.41
3:D:800:LYS:HD2	3:D:804:LEU:HD23	2.00	0.41
3:D:835:SER:C	3:D:837:GLY:N	2.78	0.41
3:D:877:PRO:HA	3:D:880:ILE:HG22	2.02	0.41
3:D:1258:ARG:CZ	3:D:1262:LEU:HD13	2.51	0.41
3:D:1310:ARG:HD3	3:D:1310:ARG:HA	1.68	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1371:VAL:HG12	3:D:1372:VAL:N	2.36	0.41
4:E:57:ASP:OD1	4:E:57:ASP:O	2.39	0.41
1:F:58:ILE:HG21	1:F:61:VAL:CG2	2.50	0.41
1:F:122:ILE:N	1:F:122:ILE:CD1	2.80	0.41
1:F:165:ILE:HA	1:F:166:PRO:HD3	1.77	0.41
1:F:171:PHE:O	1:F:173:PRO:CD	2.68	0.41
1:G:70:GLY:O	1:G:132:LEU:HA	2.20	0.41
1:G:121:GLU:OE2	1:G:123:MET:SD	2.79	0.41
2:H:15:LEU:H	2:H:15:LEU:HD12	1.86	0.41
2:H:26:TYR:OH	2:H:340:MET:HE2	2.20	0.41
2:H:141:HIS:CD2	2:H:141:HIS:N	2.88	0.41
2:H:165:LEU:HD12	2:H:165:LEU:HA	1.91	0.41
2:H:198:ARG:NH1	2:H:204:GLN:OE1	2.54	0.41
2:H:274:ARG:CG	2:H:285:LEU:CB	2.96	0.41
2:H:281:LEU:HD11	2:H:306:THR:N	2.35	0.41
2:H:347:GLY:CA	2:H:378:LEU:HD12	2.38	0.41
2:H:502:PRO:O	2:H:509:ALA:HB3	2.20	0.41
2:H:551:GLU:OE1	2:H:905:ILE:O	2.38	0.41
2:H:583:LEU:HD12	2:H:583:LEU:N	2.36	0.41
2:H:683:ASN:HA	2:H:687:ALA:CB	2.44	0.41
2:H:693:GLU:HA	2:H:696:LYS:HD2	2.02	0.41
2:H:697:ARG:O	2:H:698:ASP:C	2.64	0.41
2:H:702:SER:OG	2:H:704:HIS:ND1	2.53	0.41
2:H:751:PRO:HA	2:H:792:VAL:CG1	2.51	0.41
2:H:907:ASP:CG	2:H:907:ASP:O	2.62	0.41
2:H:1044:GLY:HA2	3:I:1475:GLY:CA	2.50	0.41
2:H:1075:ASP:O	2:H:1076:VAL:C	2.64	0.41
2:H:1102:LEU:HD12	2:H:1102:LEU:N	2.35	0.41
3:I:17:LYS:O	3:I:20:SER:CB	2.65	0.41
3:I:17:LYS:HA	3:I:20:SER:HB2	2.02	0.41
3:I:37:LEU:HD23	3:I:37:LEU:HA	1.90	0.41
3:I:97:THR:HG23	3:I:98:PRO:HD2	2.03	0.41
3:I:101:HIS:CE1	3:I:103:TRP:HB2	2.52	0.41
3:I:148:GLU:HB3	3:I:151:GLN:HB2	2.03	0.41
3:I:446:VAL:O	3:I:446:VAL:CG2	2.69	0.41
3:I:465:LEU:CD1	3:I:512:MET:HB2	2.46	0.41
3:I:484:PRO:HB3	3:I:488:ARG:CZ	2.50	0.41
3:I:586:ARG:HA	3:I:586:ARG:HD3	1.82	0.41
3:I:696:HIS:CB	4:J:48:MET:HE1	2.49	0.41
3:I:716:PHE:CD1	3:I:716:PHE:N	2.89	0.41
3:I:734:GLU:O	3:I:735:ALA:C	2.63	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:762:GLN:H	3:I:762:GLN:HG2	1.68	0.41
3:I:805:GLU:OE1	3:I:816:HIS:NE2	2.54	0.41
3:I:838:ARG:HB3	3:I:865:THR:HG23	1.99	0.41
3:I:885:ILE:CD1	3:I:937:TYR:CD2	3.03	0.41
3:I:919:PHE:CE1	3:I:924:MET:HG3	2.43	0.41
3:I:1135:ARG:CD	3:I:1139:ASP:CB	2.97	0.41
3:I:1152:GLU:C	3:I:1153:VAL:HG23	2.46	0.41
3:I:1218:GLY:C	4:J:17:TYR:HE2	2.29	0.41
3:I:1236:LEU:HB2	3:I:1256:LEU:HB2	2.03	0.41
3:I:1264:GLU:HB3	3:I:1266:ARG:NE	2.36	0.41
3:I:1304:LYS:HE2	3:I:1304:LYS:HB3	1.87	0.41
3:I:1325:LEU:HD12	3:I:1325:LEU:HA	1.85	0.41
3:I:1336:LEU:HA	3:I:1344:VAL:HG21	2.03	0.41
4:J:45:ARG:NH2	4:J:55:PHE:O	2.54	0.41
1:K:91:ASN:HD22	1:K:93:SER:CB	2.34	0.41
1:K:165:ILE:O	1:K:165:ILE:HG12	2.21	0.41
1:L:73:GLU:HB2	1:L:78:ILE:HG13	2.03	0.41
1:L:78:ILE:O	1:L:79:ILE:C	2.64	0.41
1:L:142:VAL:O	1:L:142:VAL:HG23	2.21	0.41
2:M:100:LEU:HB2	2:M:372:LEU:HD21	2.03	0.41
2:M:148:PHE:CE1	2:M:309:TYR:HD2	2.37	0.41
2:M:267:TYR:HB2	2:M:272:ALA:HB2	1.91	0.41
2:M:327:HIS:C	2:M:329:GLY:H	2.29	0.41
2:M:480:THR:HG22	2:M:481:ASP:N	2.32	0.41
2:M:524:VAL:HG13	2:M:528:GLU:OE1	2.21	0.41
2:M:537:LYS:CA	2:M:545:ASN:HD21	2.31	0.41
2:M:587:VAL:O	2:M:588:VAL:C	2.64	0.41
2:M:657:ASP:OD1	2:M:662:GLU:HA	2.21	0.41
2:M:720:GLU:CD	2:M:758:ARG:HH11	2.29	0.41
2:M:843:HIS:CD2	2:M:884:GLN:N	2.89	0.41
2:M:940:GLU:O	2:M:943:VAL:CG1	2.65	0.41
2:M:963:LEU:HD21	2:M:973:VAL:HG23	2.03	0.41
2:M:1090:LYS:HA	2:M:1090:LYS:HD3	1.90	0.41
3:N:190:GLU:C	3:N:192:ALA:H	2.28	0.41
3:N:351:MET:O	3:N:352:ASN:OD1	2.39	0.41
3:N:401:TYR:C	3:N:443:VAL:HG23	2.46	0.41
3:N:412:GLY:HA2	3:N:434:ARG:CD	2.41	0.41
3:N:511:TRP:C	3:N:513:ILE:N	2.78	0.41
3:N:616:GLN:HE21	3:N:616:GLN:HB2	1.70	0.41
3:N:701:LEU:O	3:N:702:LEU:HD12	2.21	0.41
3:N:734:GLU:O	3:N:735:ALA:C	2.63	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:765:SER:O	3:N:767:HIS:N	2.53	0.41
3:N:770:LEU:HD23	3:N:770:LEU:HA	1.72	0.41
3:N:805:GLU:H	3:N:805:GLU:HG2	1.59	0.41
3:N:899:LEU:HD12	3:N:899:LEU:C	2.46	0.41
3:N:975:GLU:O	3:N:979:GLU:HG3	2.20	0.41
3:N:1156:LEU:CD1	3:N:1176:LYS:HE3	2.49	0.41
3:N:1192:LEU:HD21	3:N:1372:VAL:CG1	2.51	0.41
3:N:1432:LYS:O	3:N:1432:LYS:CG	2.67	0.41
3:N:1464:GLU:H	3:N:1464:GLU:HG2	1.55	0.41
7:X:58:ILE:O	7:X:59:GLU:C	2.64	0.41
7:Y:20:GLU:OE1	7:Y:23:ARG:HD2	2.21	0.41
7:Y:123:SER:O	7:Y:126:GLY:N	2.54	0.41
7:Y:141:ASP:OD2	7:Y:145:GLY:O	2.37	0.41
7:Y:150:ARG:NH1	7:Y:152:VAL:HG22	2.35	0.41
1:A:91:ASN:HD22	1:A:93:SER:CB	2.34	0.41
1:B:115:LEU:HA	1:B:116:PRO:HD3	1.86	0.41
2:C:30:LEU:O	2:C:30:LEU:CD1	2.62	0.41
2:C:47:ALA:CB	2:C:345:ARG:HD2	2.51	0.41
2:C:112:GLU:OE1	2:C:112:GLU:CA	2.67	0.41
2:C:172:ILE:HG22	2:C:173:ASP:N	2.35	0.41
2:C:278:GLU:HA	2:C:283:ILE:HA	2.03	0.41
3:D:348:GLN:H	3:D:351:MET:CE	2.34	0.41
3:D:614:PHE:CD2	3:D:1438:ALA:HB1	2.55	0.41
3:D:835:SER:N	3:D:838:ARG:HD3	2.35	0.41
3:D:845:ASN:N	3:D:848:GLU:HG3	2.31	0.41
3:D:899:LEU:HD12	3:D:900:ILE:CG2	2.37	0.41
3:D:1265:ALA:HB1	3:D:1333:HIS:CE1	2.56	0.41
4:E:70:THR:HB	4:E:72:ARG:CD	2.36	0.41
1:F:128:HIS:NE2	1:F:131:THR:HG23	2.36	0.41
1:G:77:GLU:HB2	3:I:872:ARG:HH21	1.86	0.41
2:H:36:PRO:HG2	2:H:70:GLU:HB3	2.03	0.41
2:H:118:ILE:HA	2:H:119:PRO:HD3	1.82	0.41
2:H:119:PRO:HG2	2:H:386:PHE:CG	2.56	0.41
2:H:218:VAL:C	2:H:220:GLY:N	2.77	0.41
2:H:604:ALA:HB3	2:H:612:VAL:O	2.21	0.41
2:H:682:TYR:CE1	3:I:635:PRO:HD2	2.56	0.41
2:H:817:PRO:C	2:H:819:VAL:H	2.29	0.41
2:H:979:THR:HG23	2:H:981:GLU:N	2.23	0.41
2:H:1083:GLU:O	2:H:1087:VAL:HB	2.21	0.41
3:I:705:ALA:HB3	3:I:706:PRO:CD	2.40	0.41
3:I:749:VAL:HA	3:I:750:PRO:HD3	1.76	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:939:PHE:O	3:I:942:SER:HB3	2.21	0.41
3:I:1124:GLN:HA	3:I:1125:PRO:HD3	1.92	0.41
4:J:17:TYR:O	4:J:21:VAL:HG23	2.21	0.41
1:K:142:VAL:O	1:K:142:VAL:CG2	2.69	0.41
2:M:43:GLY:O	2:M:44:ILE:C	2.64	0.41
2:M:414:GLY:O	2:M:415:PRO:C	2.64	0.41
2:M:557:ARG:HE	2:M:879:ARG:HD3	1.86	0.41
2:M:606:VAL:CG2	2:M:645:VAL:HA	2.51	0.41
2:M:737:LEU:CD2	2:M:737:LEU:O	2.68	0.41
3:N:95:LEU:HA	3:N:551:ASN:CG	2.46	0.41
3:N:97:THR:HA	3:N:98:PRO:HD3	1.88	0.41
3:N:153:LEU:O	3:N:153:LEU:HD12	2.20	0.41
3:N:456:MET:HA	3:N:460:ALA:HB2	2.03	0.41
3:N:908:LYS:NZ	7:Z:35:GLU:OE2	2.54	0.41
3:N:1422:MET:CE	3:N:1426:LYS:O	2.69	0.41
7:Y:44:ASP:OD1	7:Y:44:ASP:N	2.54	0.41
1:A:42:ARG:NH2	1:B:31:GLY:O	2.54	0.40
1:A:222:LEU:HD21	1:B:218:LEU:HD23	2.04	0.40
1:B:185:ARG:HH11	3:D:692:GLU:HB3	1.87	0.40
2:C:78:PHE:HB3	2:C:79:PRO:CD	2.50	0.40
2:C:327:HIS:O	2:C:329:GLY:N	2.54	0.40
2:C:334:ARG:HA	2:C:338:GLU:OE2	2.20	0.40
2:C:430:VAL:HA	2:C:434:HIS:CE1	2.56	0.40
2:C:458:TYR:HB3	2:C:470:PRO:HG3	2.02	0.40
2:C:627:ARG:O	2:C:638:ASP:CB	2.70	0.40
3:D:36:THR:C	3:D:38:LYS:N	2.79	0.40
3:D:105:VAL:O	3:D:105:VAL:HG12	2.21	0.40
3:D:158:TYR:O	3:D:162:ARG:N	2.47	0.40
3:D:549:ASN:HD22	3:D:549:ASN:HA	1.62	0.40
3:D:695:ILE:CD1	3:D:718:PRO:HB2	2.50	0.40
3:D:727:GLN:HE21	3:D:727:GLN:HB3	1.62	0.40
3:D:730:PRO:HA	3:D:733:CYS:SG	2.61	0.40
3:D:807:ALA:HA	3:D:833:GLU:CG	2.48	0.40
3:D:814:ALA:CB	3:D:818:ARG:HH21	2.24	0.40
3:D:820:GLU:CB	3:D:836:VAL:HG21	2.51	0.40
3:D:860:LEU:CB	3:D:861:GLN:HE21	2.35	0.40
3:D:1231:GLU:CB	3:D:1232:PRO:CD	2.99	0.40
3:D:1261:GLU:O	3:D:1264:GLU:O	2.39	0.40
2:H:144:PRO:O	2:H:276:LYS:HD3	2.21	0.40
2:H:182:VAL:O	2:H:193:LEU:CD1	2.60	0.40
2:H:221:LEU:O	2:H:223:ASP:N	2.54	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:304:LEU:HD23	2:H:304:LEU:H	1.86	0.40
2:H:496:ILE:CG2	2:H:497:ALA:N	2.84	0.40
2:H:501:THR:HG22	2:H:513:VAL:HG13	2.02	0.40
2:H:739:GLU:O	2:H:741:GLY:N	2.54	0.40
2:H:838:LYS:O	2:H:997:LEU:HD23	2.21	0.40
2:H:881:ASN:O	2:H:884:GLN:HG3	2.22	0.40
2:H:899:GLN:HG3	2:H:901:TYR:OH	2.21	0.40
2:H:937:ASP:HB3	2:H:940:GLU:H	1.86	0.40
3:I:469:ASP:O	3:I:472:ALA:HB3	2.21	0.40
3:I:502:PHE:CE1	3:I:509:PRO:HB3	2.56	0.40
3:I:662:GLU:OE1	3:I:668:PRO:C	2.65	0.40
3:I:1262:LEU:HD21	3:I:1351:GLU:HG3	2.03	0.40
3:I:1477:GLY:O	3:I:1478:SER:C	2.64	0.40
3:I:1481:VAL:C	3:I:1483:PHE:H	2.29	0.40
2:M:56:GLU:O	2:M:64:LEU:N	2.55	0.40
2:M:284:ARG:HB3	2:M:301:GLU:OE2	2.22	0.40
2:M:339:LEU:HD22	2:M:385:PHE:CZ	2.56	0.40
2:M:571:LEU:HD12	2:M:701:THR:C	2.46	0.40
2:M:684:PHE:HB3	3:N:633:VAL:HG21	2.03	0.40
2:M:854:PRO:HB2	2:M:856:GLU:CD	2.46	0.40
3:N:87:ARG:C	3:N:88:TYR:HD2	2.29	0.40
3:N:104:PHE:HB3	3:N:512:MET:SD	2.61	0.40
3:N:752:SER:C	3:N:754:PHE:H	2.29	0.40
3:N:890:VAL:HG12	3:N:926:LYS:HE2	2.03	0.40
3:N:957:PRO:HG2	3:N:1007:VAL:CG2	2.49	0.40
3:N:1147:ARG:NH1	3:N:1190:SER:HB2	2.36	0.40
3:N:1196:THR:O	3:N:1197:ARG:C	2.65	0.40
3:N:1393:GLN:HB2	3:N:1398:TRP:CZ2	2.55	0.40
4:O:41:GLU:HA	4:O:45:ARG:HG3	2.03	0.40
7:Z:14:ARG:HH11	7:Z:14:ARG:CB	2.32	0.40
1:B:138:LEU:HD23	1:B:138:LEU:O	2.21	0.40
2:C:124:ASP:C	2:C:407:LYS:HZ1	2.30	0.40
2:C:139:GLN:OE1	2:C:334:ARG:HD3	2.21	0.40
2:C:184:MET:CE	2:C:186:VAL:CG1	2.97	0.40
2:C:449:ILE:O	2:C:451:LEU:N	2.54	0.40
2:C:961:GLU:O	2:C:964:LYS:HB3	2.20	0.40
2:C:1005:MET:CE	3:D:724:GLN:HB3	2.50	0.40
2:C:1019:GLN:HG3	3:D:621:LYS:HD2	2.04	0.40
3:D:355:VAL:CG1	3:D:359:ALA:HB3	2.51	0.40
3:D:355:VAL:HG13	3:D:359:ALA:HB3	2.02	0.40
3:D:511:TRP:C	3:D:513:ILE:H	2.29	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:655:PRO:HA	3:D:658:LEU:HD12	2.03	0.40
3:D:1231:GLU:HG2	3:D:1232:PRO:N	2.35	0.40
3:D:1258:ARG:NH2	3:D:1262:LEU:HD11	2.36	0.40
3:D:1403:LEU:HD22	3:D:1407:LEU:HD22	2.03	0.40
1:F:19:GLU:O	1:F:207:PRO:HG3	2.20	0.40
1:F:38:ASN:N	1:F:39:PRO:CD	2.84	0.40
1:F:211:LEU:HD12	1:F:211:LEU:O	2.21	0.40
2:H:19:THR:HG22	2:H:23:VAL:HG23	2.04	0.40
2:H:542:VAL:O	2:H:543:ASN:C	2.64	0.40
2:H:661:SER:HA	2:H:665:PHE:O	2.21	0.40
2:H:950:LEU:CB	2:H:952:LEU:HD23	2.37	0.40
3:I:12:LEU:H	3:I:12:LEU:CD1	2.30	0.40
3:I:190:GLU:C	3:I:192:ALA:H	2.29	0.40
3:I:427:VAL:HG12	3:I:427:VAL:O	2.20	0.40
3:I:632:VAL:HG23	3:I:725:SER:HB2	2.03	0.40
3:I:680:GLN:HA	3:I:683:ILE:HD11	2.03	0.40
3:I:687:VAL:O	3:I:690:ALA:N	2.55	0.40
3:I:688:TRP:CE3	3:I:688:TRP:CA	3.02	0.40
3:I:699:VAL:HG22	3:I:756:GLN:HE22	1.86	0.40
3:I:778:LEU:HD12	3:I:778:LEU:HA	1.89	0.40
3:I:970:LYS:NZ	7:Y:113:LEU:HA	2.37	0.40
3:I:1440:PHE:HD2	3:I:1441:GLN:H	1.69	0.40
3:I:1487:VAL:CG2	4:J:79:LEU:HD23	2.51	0.40
1:K:85:LEU:HD12	1:K:86:VAL:N	2.37	0.40
1:K:90:LEU:H	1:K:94:LEU:HD12	1.86	0.40
1:K:206:THR:O	1:K:207:PRO:C	2.64	0.40
2:M:162:ILE:O	2:M:162:ILE:HG22	2.20	0.40
2:M:193:LEU:HD23	2:M:307:LEU:HD11	2.03	0.40
2:M:195:LEU:CD2	2:M:238:LEU:HG	2.51	0.40
2:M:206:THR:CG2	2:M:207:LEU:H	2.34	0.40
2:M:246:ASP:HB3	2:M:247:PRO:CD	2.51	0.40
2:M:343:GLN:CA	2:M:343:GLN:NE2	2.81	0.40
2:M:390:GLN:H	2:M:390:GLN:HG3	1.60	0.40
2:M:981:GLU:CG	2:M:982:PRO:HD2	2.48	0.40
2:M:985:GLY:HA2	2:M:986:PRO:HD3	1.93	0.40
3:N:117:ASP:HB2	3:N:495:ARG:NH1	2.36	0.40
3:N:355:VAL:HG11	3:N:385:VAL:CG2	2.51	0.40
3:N:477:LEU:HD11	3:N:495:ARG:HG2	2.03	0.40
3:N:496:LEU:HD12	3:N:496:LEU:O	2.21	0.40
7:X:5:VAL:HG12	7:X:72:ALA:CB	2.51	0.40
7:X:6:LYS:CB	7:X:85:LEU:HD12	2.49	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:99:LEU:HD12	1:A:99:LEU:N	2.37	0.40
1:B:161:ARG:NH1	1:B:161:ARG:HG3	2.37	0.40
1:B:175:ARG:NH1	1:B:202:ASP:HB3	2.36	0.40
2:C:90:TYR:HD1	2:C:120:LEU:HB2	1.83	0.40
2:C:817:PRO:C	2:C:819:VAL:H	2.28	0.40
2:C:976:ASP:CG	2:C:979:THR:HG22	2.46	0.40
2:C:1104:GLU:HB2	2:C:1105:LYS:H	1.75	0.40
3:D:102:ILE:CD1	3:D:586:ARG:HG3	2.51	0.40
3:D:119:SER:O	3:D:120:ALA:C	2.64	0.40
3:D:368:VAL:H	3:D:377:VAL:HB	1.85	0.40
3:D:688:TRP:HA	3:D:688:TRP:CE3	2.57	0.40
3:D:952:ASP:HA	3:D:1062:ARG:HH11	1.87	0.40
3:D:986:ARG:O	3:D:989:TYR:HB3	2.21	0.40
1:F:31:GLY:O	1:F:35:THR:OG1	2.38	0.40
1:F:90:LEU:H	1:F:94:LEU:HD12	1.86	0.40
1:F:134:GLU:O	1:F:135:GLY:C	2.62	0.40
1:G:206:THR:HG23	1:G:208:LEU:N	2.36	0.40
2:H:363:SER:HB2	2:H:364:GLU:H	1.66	0.40
2:H:414:GLY:O	2:H:415:PRO:C	2.65	0.40
2:H:564:MET:HE1	2:H:846:LYS:HD2	2.03	0.40
2:H:754:ILE:CG1	2:H:791:ARG:NH1	2.84	0.40
2:H:860:HIS:HD2	2:H:861:LEU:O	2.04	0.40
3:I:87:ARG:HB3	3:I:523:ASP:CB	2.33	0.40
3:I:128:TYR:HD2	3:I:128:TYR:HA	1.53	0.40
3:I:752:SER:C	3:I:754:PHE:N	2.79	0.40
3:I:881:LEU:O	3:I:884:ARG:HB3	2.22	0.40
3:I:995:LEU:O	3:I:999:THR:HB	2.20	0.40
3:I:1108:ARG:HG3	3:I:1108:ARG:HH11	1.86	0.40
3:I:1262:LEU:HD21	3:I:1351:GLU:CG	2.51	0.40
3:I:1425:THR:HG22	3:I:1426:LYS:N	2.36	0.40
1:L:50:GLY:O	1:L:146:ARG:HA	2.22	0.40
1:L:219:ARG:HA	1:L:222:LEU:HD12	2.02	0.40
2:M:411:SER:HA	2:M:452:ILE:HG12	2.03	0.40
2:M:458:TYR:HB3	2:M:470:PRO:HG3	2.02	0.40
2:M:557:ARG:HH11	2:M:560:MET:HG3	1.87	0.40
2:M:583:LEU:O	2:M:584:GLU:C	2.64	0.40
2:M:586:ARG:O	2:M:587:VAL:C	2.61	0.40
2:M:710:ILE:HD13	2:M:710:ILE:C	2.43	0.40
2:M:710:ILE:CG2	2:M:756:VAL:HG11	2.45	0.40
2:M:739:GLU:O	2:M:741:GLY:N	2.53	0.40
2:M:806:LEU:HD12	2:M:822:VAL:HG21	2.02	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1034:GLU:O	2:M:1035:MET:C	2.64	0.40
2:M:1058:ASP:OD2	2:M:1083:GLU:HB2	2.20	0.40
2:M:1099:VAL:HG22	3:N:10:ILE:CG1	2.51	0.40
3:N:181:ASP:CB	3:N:205:TYR:HB3	2.51	0.40
3:N:891:GLU:O	3:N:891:GLU:OE2	2.40	0.40
3:N:926:LYS:O	3:N:929:ARG:HB2	2.22	0.40
3:N:1055:VAL:HA	3:N:1056:PRO:HD3	1.77	0.40
7:X:102:VAL:HG22	7:X:117:MET:HB2	2.03	0.40
7:Z:58:ILE:O	7:Z:59:GLU:C	2.64	0.40
7:Z:123:SER:O	7:Z:126:GLY:N	2.54	0.40
1:B:50:GLY:O	1:B:146:ARG:HA	2.21	0.40
1:B:84:GLU:HG2	1:B:127:LEU:CD1	2.45	0.40
2:C:52:PHE:O	2:C:54:ILE:N	2.54	0.40
2:C:313:LEU:HG	2:C:314:THR:N	2.33	0.40
2:C:643:VAL:HG13	2:C:647:GLN:CD	2.46	0.40
2:C:987:ILE:HD12	3:D:948:THR:HG23	2.02	0.40
2:C:1083:GLU:OE1	2:C:1086:ARG:NE	2.54	0.40
3:D:26:VAL:O	3:D:26:VAL:CG2	2.67	0.40
3:D:420:VAL:HG13	3:D:424:GLY:O	2.21	0.40
3:D:703:ASN:HD22	3:D:704:ARG:H	1.69	0.40
3:D:767:HIS:CE1	4:E:2:ALA:HB1	2.56	0.40
3:D:907:GLU:O	3:D:908:LYS:C	2.63	0.40
3:D:996:TRP:O	3:D:998:GLU:N	2.55	0.40
3:D:1026:SER:O	3:D:1028:ALA:N	2.54	0.40
3:D:1155:VAL:HG13	3:D:1183:ILE:HG13	2.03	0.40
3:D:1327:ARG:HG3	3:D:1328:GLY:N	2.36	0.40
3:D:1453:ALA:O	3:D:1454:GLY:C	2.63	0.40
3:D:1488:ASP:N	3:D:1488:ASP:OD1	2.54	0.40
1:F:101:LEU:HD11	1:F:113:ASP:HB2	2.03	0.40
1:G:76:VAL:O	1:G:79:ILE:CG1	2.70	0.40
1:G:121:GLU:HG2	1:G:122:ILE:N	2.36	0.40
2:H:26:TYR:HA	2:H:29:ALA:HB3	2.03	0.40
2:H:35:PRO:C	2:H:37:GLU:H	2.29	0.40
2:H:165:LEU:CD1	2:H:166:PRO:HA	2.51	0.40
2:H:328:LEU:HB2	2:H:433:THR:HG21	2.03	0.40
2:H:336:VAL:O	2:H:339:LEU:N	2.54	0.40
2:H:455:LEU:HD12	2:H:456:ALA:N	2.37	0.40
2:H:673:LEU:HD23	2:H:674:VAL:N	2.36	0.40
2:H:766:GLU:OE1	3:I:37:LEU:HD23	2.21	0.40
3:I:167:GLU:OE2	3:I:169:TYR:CE1	2.64	0.40
3:I:704:ARG:HA	3:I:745:MET:HG2	2.03	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:793:THR:O	3:I:879:ARG:NH1	2.54	0.40
1:L:62:LEU:H	1:L:62:LEU:HG	1.57	0.40
2:M:275:TYR:C	2:M:277:ALA:H	2.29	0.40
2:M:455:LEU:CD1	2:M:455:LEU:C	2.95	0.40
2:M:555:ALA:HA	3:N:1070:TYR:OH	2.22	0.40
2:M:749:VAL:HG23	2:M:749:VAL:O	2.21	0.40
2:M:855:VAL:CG1	2:M:856:GLU:N	2.83	0.40
2:M:1008:ARG:NH1	2:M:1010:THR:C	2.79	0.40
3:N:206:ARG:CB	3:N:392:SER:H	2.35	0.40
3:N:358:GLY:HA2	3:N:385:VAL:HB	2.02	0.40
3:N:464:LEU:O	3:N:468:LEU:HG	2.22	0.40
3:N:546:ARG:HG2	3:N:546:ARG:HH11	1.86	0.40
3:N:1025:GLN:O	3:N:1026:SER:C	2.64	0.40
3:N:1217:ILE:HB	3:N:1480:PHE:HD2	1.85	0.40
3:N:1314:LYS:H	3:N:1314:LYS:HG2	1.71	0.40
4:O:82:GLU:OE1	4:O:82:GLU:N	2.42	0.40
7:Z:139:SER:OG	7:Z:148:GLU:CG	2.69	0.40
1:A:41:ARG:HA	1:A:44:LEU:HD12	2.04	0.40
1:A:99:LEU:HB3	1:A:114:PHE:CD2	2.56	0.40
1:A:139:ASN:ND2	1:F:59:GLU:CD	2.79	0.40
1:A:150:TYR:CE2	1:A:152:PRO:HG3	2.57	0.40
2:C:15:LEU:O	2:C:586:ARG:NH2	2.45	0.40
2:C:18:LEU:HD12	2:C:18:LEU:H	1.87	0.40
2:C:226:VAL:HG13	2:C:227:PHE:N	2.37	0.40
2:C:241:LEU:O	2:C:242:LEU:C	2.64	0.40
2:C:282:GLY:O	2:C:283:ILE:HG12	2.21	0.40
2:C:460:ARG:HG3	2:C:460:ARG:NH1	2.33	0.40
2:C:682:TYR:O	2:C:687:ALA:HB1	2.21	0.40
2:C:884:GLN:HB2	2:C:992:MET:CE	2.51	0.40
2:C:1053:LEU:N	2:C:1053:LEU:HD23	2.36	0.40
3:D:209:ARG:C	3:D:389:GLU:HB2	2.47	0.40
3:D:638:LYS:HA	3:D:932:ASP:OD1	2.22	0.40
3:D:765:SER:O	3:D:767:HIS:N	2.55	0.40
3:D:1057:VAL:HA	3:D:1069:GLU:HG2	2.03	0.40
3:D:1108:ARG:O	3:D:1108:ARG:HG2	2.22	0.40
3:D:1209:LEU:HD23	3:D:1210:SER:N	2.36	0.40
1:F:211:LEU:O	1:F:215:VAL:HG23	2.22	0.40
2:H:171:TRP:HH2	2:H:417:GLY:O	2.02	0.40
2:H:175:GLU:O	2:H:183:SER:N	2.46	0.40
2:H:176:VAL:O	2:H:176:VAL:HG23	2.22	0.40
2:H:196:LEU:HD22	2:H:303:PHE:CE2	2.57	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:642:ARG:HD3	2:H:642:ARG:HA	1.81	0.40
2:H:806:LEU:HD12	2:H:822:VAL:HG21	2.04	0.40
2:H:854:PRO:C	2:H:856:GLU:N	2.77	0.40
2:H:1081:VAL:HA	2:H:1082:PRO:HD3	1.99	0.40
3:I:150:ARG:HD2	3:I:464:LEU:HD22	2.03	0.40
3:I:440:VAL:O	3:I:440:VAL:HG12	2.22	0.40
3:I:563:PRO:O	3:I:566:ILE:HD13	2.20	0.40
3:I:918:ALA:HB3	3:I:927:THR:HG23	2.03	0.40
3:I:1235:GLN:HB2	7:Y:37:MET:CE	2.51	0.40
3:I:1434:TRP:NE1	3:I:1435:LEU:CD1	2.85	0.40
1:K:89:PHE:HZ	1:K:144:VAL:HG12	1.86	0.40
1:K:165:ILE:HD13	1:K:165:ILE:N	2.27	0.40
1:L:81:ASN:HD22	1:L:129:ILE:HD13	1.87	0.40
2:M:239:PHE:CZ	2:M:252:LYS:CB	3.05	0.40
2:M:249:LYS:C	2:M:249:LYS:HZ2	2.29	0.40
2:M:305:PRO:HA	2:M:308:ARG:HB3	1.99	0.40
2:M:650:ARG:CG	2:M:653:ASP:HB2	2.52	0.40
2:M:860:HIS:HD2	2:M:861:LEU:O	2.04	0.40
2:M:984:GLU:HG3	2:M:984:GLU:O	2.21	0.40
2:M:1046:ALA:HA	3:N:1472:ILE:CD1	2.39	0.40
2:M:1093:GLN:C	2:M:1095:LEU:N	2.80	0.40
2:M:1102:LEU:HD12	2:M:1102:LEU:N	2.36	0.40
3:N:65:ARG:HA	3:N:65:ARG:HD2	1.82	0.40
3:N:469:ASP:O	3:N:472:ALA:HB3	2.22	0.40
3:N:949:ILE:CG2	3:N:950:GLY:N	2.83	0.40
3:N:968:ASP:O	3:N:971:LEU:HB3	2.22	0.40
3:N:988:ARG:HD2	3:N:989:TYR:N	2.37	0.40
3:N:1348:LEU:O	3:N:1349:VAL:C	2.64	0.40
7:X:119:ILE:HG22	7:X:123:SER:HB3	2.03	0.40
7:Y:144:LYS:HG3	7:Y:145:GLY:N	2.34	0.40
7:Z:78:GLY:O	7:Z:156:GLY:OXT	2.39	0.40
7:Z:124:PRO:HB2	7:Z:125:MET:H	1.70	0.40

All (3) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:223:ASP:O	3:N:562:ALA:O[2_647]	1.66	0.54
3:D:562:ALA:O	2:H:223:ASP:O[2_646]	2.02	0.18
3:D:159:ARG:O	2:H:209:ARG:NH1[2_646]	2.15	0.05

5.3 Torsion angles

5.3.1 Protein backbone

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	221/315 (70%)	181 (82%)	33 (15%)	7 (3%)	3	24
1	B	221/315 (70%)	188 (85%)	28 (13%)	5 (2%)	5	31
1	F	220/315 (70%)	182 (83%)	32 (14%)	6 (3%)	4	28
1	G	221/315 (70%)	190 (86%)	27 (12%)	4 (2%)	6	35
1	K	220/315 (70%)	183 (83%)	29 (13%)	8 (4%)	2	22
1	L	221/315 (70%)	189 (86%)	26 (12%)	6 (3%)	4	28
2	C	1102/1119 (98%)	873 (79%)	169 (15%)	60 (5%)	1	17
2	H	1099/1119 (98%)	882 (80%)	157 (14%)	60 (6%)	1	17
2	M	1101/1119 (98%)	892 (81%)	150 (14%)	59 (5%)	1	17
3	D	1341/1524 (88%)	1055 (79%)	221 (16%)	65 (5%)	2	18
3	I	1281/1524 (84%)	1006 (78%)	216 (17%)	59 (5%)	2	19
3	N	1343/1524 (88%)	1068 (80%)	211 (16%)	64 (5%)	2	18
4	E	91/99 (92%)	71 (78%)	15 (16%)	5 (6%)	1	17
4	J	90/99 (91%)	71 (79%)	14 (16%)	5 (6%)	1	17
4	O	91/99 (92%)	70 (77%)	16 (18%)	5 (6%)	1	17
7	X	150/156 (96%)	119 (79%)	26 (17%)	5 (3%)	3	24
7	Y	150/156 (96%)	121 (81%)	26 (17%)	3 (2%)	6	33
7	Z	150/156 (96%)	123 (82%)	21 (14%)	6 (4%)	2	21
All	All	9313/10584 (88%)	7464 (80%)	1417 (15%)	432 (5%)	2	19

All (432) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	133	GLU
1	A	226	SER
2	C	44	ILE
2	C	80	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	C	152	PRO
2	C	231	PRO
2	C	249	LYS
2	C	251	ASP
2	C	368	THR
2	C	545	ASN
2	C	684	PHE
2	C	762	LYS
2	C	763	GLY
2	C	809	GLY
2	C	864	GLY
2	C	905	ILE
2	C	1033	GLY
2	C	1096	ALA
2	C	1106	ASP
3	D	40	GLU
3	D	96	ALA
3	D	665	GLY
3	D	696	HIS
3	D	1028	ALA
3	D	1125	PRO
3	D	1441	GLN
3	D	1452	ILE
3	D	1489	GLN
4	E	52	GLU
4	E	58	PRO
4	E	82	GLU
2	H	152	PRO
2	H	164	PRO
2	H	250	ARG
2	H	251	ASP
2	H	545	ASN
2	H	684	PHE
2	H	740	GLU
2	H	762	LYS
2	H	809	GLY
2	H	864	GLY
2	H	1033	GLY
2	H	1096	ALA
2	H	1106	ASP
3	I	40	GLU
3	I	96	ALA

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
3	I	665	GLY
3	I	696	HIS
3	I	737	ASN
3	I	1028	ALA
3	I	1125	PRO
3	I	1286	THR
3	I	1452	ILE
3	I	1489	GLN
4	J	52	GLU
4	J	58	PRO
4	J	82	GLU
1	K	133	GLU
1	K	226	SER
2	M	80	GLN
2	M	152	PRO
2	M	251	ASP
2	M	545	ASN
2	M	684	PHE
2	M	762	LYS
2	M	809	GLY
2	M	864	GLY
2	M	1033	GLY
2	M	1096	ALA
2	M	1106	ASP
3	N	40	GLU
3	N	96	ALA
3	N	377	VAL
3	N	381	ALA
3	N	665	GLY
3	N	696	HIS
3	N	1028	ALA
3	N	1125	PRO
3	N	1286	THR
3	N	1452	ILE
3	N	1489	GLN
4	O	42	PRO
4	O	52	GLU
4	O	58	PRO
4	O	82	GLU
7	X	44	ASP
7	Z	44	ASP
1	B	187	GLY

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	C	23	VAL
2	C	31	GLN
2	C	40	GLU
2	C	156	GLY
2	C	164	PRO
2	C	207	LEU
2	C	268	ASP
2	C	274	ARG
2	C	282	GLY
2	C	283	ILE
2	C	290	LEU
2	C	301	GLU
2	C	369	PRO
2	C	381	ALA
2	C	740	GLU
2	C	808	ARG
2	C	908	GLY
2	C	1097	LEU
3	D	31	THR
3	D	119	SER
3	D	377	VAL
3	D	735	ALA
3	D	737	ASN
3	D	808	THR
3	D	989	TYR
3	D	1111	ASP
3	D	1211	MET
3	D	1254	GLN
3	D	1315	ASP
3	D	1338	ALA
3	D	1410	GLU
3	D	1454	GLY
1	F	133	GLU
1	G	187	GLY
2	H	23	VAL
2	H	31	GLN
2	H	40	GLU
2	H	44	ILE
2	H	80	GLN
2	H	111	ASP
2	H	129	ILE
2	H	156	GLY

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	H	207	LEU
2	H	231	PRO
2	H	278	GLU
2	H	282	GLY
2	H	283	ILE
2	H	290	LEU
2	H	368	THR
2	H	369	PRO
2	H	908	GLY
3	I	31	THR
3	I	119	SER
3	I	735	ALA
3	I	766	ALA
3	I	783	ARG
3	I	786	ILE
3	I	1111	ASP
3	I	1211	MET
3	I	1252	ILE
3	I	1338	ALA
3	I	1410	GLU
3	I	1441	GLN
3	I	1454	GLY
1	L	187	GLY
2	M	23	VAL
2	M	31	GLN
2	M	40	GLU
2	M	111	ASP
2	M	156	GLY
2	M	164	PRO
2	M	207	LEU
2	M	231	PRO
2	M	250	ARG
2	M	282	GLY
2	M	283	ILE
2	M	290	LEU
2	M	368	THR
2	M	369	PRO
2	M	740	GLU
2	M	908	GLY
3	N	31	THR
3	N	119	SER
3	N	120	ALA

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
3	N	382	GLU
3	N	735	ALA
3	N	737	ASN
3	N	989	TYR
3	N	1111	ASP
3	N	1197	ARG
3	N	1211	MET
3	N	1255	GLY
3	N	1288	GLU
3	N	1338	ALA
3	N	1407	LEU
3	N	1410	GLU
3	N	1441	GLN
3	N	1454	GLY
7	X	136	ASP
7	Z	43	TYR
7	Z	136	ASP
1	A	30	ARG
1	A	118	ALA
1	A	125	PRO
1	B	44	LEU
1	B	118	ALA
1	B	224	TYR
2	C	10	ARG
2	C	111	ASP
2	C	144	PRO
2	C	278	GLU
2	C	589	ARG
2	C	932	GLU
2	C	998	TYR
3	D	120	ALA
3	D	140	ALA
3	D	208	PRO
3	D	356	PRO
3	D	572	ARG
3	D	783	ARG
3	D	827	ILE
3	D	1197	ARG
3	D	1220	ALA
3	D	1269	LYS
3	D	1407	LEU
4	E	42	PRO

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
4	E	46	PRO
1	F	30	ARG
1	F	125	PRO
1	F	226	SER
1	G	118	ALA
1	G	224	TYR
2	H	10	ARG
2	H	144	PRO
2	H	268	ASP
2	H	301	GLU
2	H	589	ARG
2	H	808	ARG
2	H	932	GLU
3	I	120	ALA
3	I	572	ARG
3	I	580	ALA
3	I	639	LEU
3	I	827	ILE
3	I	989	TYR
3	I	1197	ARG
3	I	1207	TYR
3	I	1269	LYS
3	I	1315	ASP
3	I	1407	LEU
4	J	42	PRO
4	J	46	PRO
1	K	30	ARG
1	K	118	ALA
1	K	125	PRO
1	L	44	LEU
1	L	224	TYR
2	M	44	ILE
2	M	129	ILE
2	M	249	LYS
2	M	278	GLU
2	M	381	ALA
2	M	474	VAL
2	M	517	ARG
2	M	627	ARG
2	M	808	ARG
2	M	905	ILE
2	M	932	GLU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	M	998	TYR
2	M	1097	LEU
3	N	137	PRO
3	N	540	LEU
3	N	572	ARG
3	N	639	LEU
3	N	766	ALA
3	N	783	ARG
3	N	1049	SER
3	N	1091	SER
3	N	1207	TYR
3	N	1220	ALA
3	N	1269	LYS
3	N	1306	PRO
3	N	1315	ASP
3	N	1354	LYS
7	Y	115	THR
7	Z	115	THR
1	A	72	LYS
2	C	129	ILE
2	C	222	MET
2	C	424	GLY
2	C	627	ARG
2	C	765	SER
2	C	960	GLU
3	D	146	PRO
3	D	507	ASN
3	D	540	LEU
3	D	580	ALA
3	D	594	PRO
3	D	639	LEU
3	D	757	ALA
3	D	766	ALA
3	D	1306	PRO
3	D	1349	VAL
3	D	1354	LYS
1	G	44	LEU
2	H	222	MET
2	H	264	PRO
2	H	381	ALA
2	H	424	GLY
2	H	960	GLU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	H	998	TYR
3	I	146	PRO
3	I	757	ALA
3	I	808	THR
3	I	892	ASP
3	I	1049	SER
3	I	1067	VAL
3	I	1196	THR
3	I	1220	ALA
3	I	1224	VAL
3	I	1306	PRO
3	I	1354	LYS
3	I	1459	LEU
1	L	118	ALA
2	M	10	ARG
2	M	144	PRO
2	M	222	MET
2	M	274	ARG
2	M	301	GLU
2	M	450	GLY
2	M	859	PRO
3	N	140	ALA
3	N	580	ALA
3	N	705	ALA
3	N	757	ALA
3	N	786	ILE
3	N	808	THR
3	N	827	ILE
3	N	1265	ALA
3	N	1287	GLU
3	N	1459	LEU
7	X	46	SER
7	Y	136	ASP
1	A	9	PRO
1	B	125	PRO
2	C	450	GLY
2	C	474	VAL
2	C	517	ARG
2	C	859	PRO
3	D	137	PRO
3	D	483	HIS
3	D	484	PRO

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
3	D	504	ASP
3	D	705	ALA
3	D	786	ILE
3	D	1265	ALA
1	F	9	PRO
1	F	93	SER
2	H	249	LYS
3	I	483	HIS
3	I	484	PRO
3	I	507	ASN
3	I	512	MET
3	I	540	LEU
3	I	1265	ALA
3	I	1324	PRO
1	K	9	PRO
1	K	72	LYS
1	L	59	GLU
2	M	365	ASP
2	M	424	GLY
2	M	960	GLU
3	N	160	GLU
3	N	483	HIS
3	N	507	ASN
3	N	1041	LEU
3	N	1411	GLY
7	X	115	THR
7	Y	44	ASP
2	C	681	GLY
3	D	512	MET
3	D	650	LEU
3	D	1324	PRO
3	D	1411	GLY
2	H	272	ALA
2	H	474	VAL
2	H	680	ASP
2	H	681	GLY
2	H	1059	ASP
3	I	564	GLU
3	I	705	ALA
1	L	125	PRO
2	M	180	GLY
2	M	589	ARG

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
3	N	146	PRO
3	N	896	ALA
3	N	1324	PRO
7	Z	124	PRO
7	Z	146	ARG
2	C	180	GLY
2	C	646	GLY
2	C	855	VAL
3	D	1223	ILE
3	D	1408	ILE
2	H	180	GLY
2	M	681	GLY
2	M	727	PRO
3	N	484	PRO
3	N	1050	GLY
3	N	1408	ILE
3	D	1050	GLY
2	H	336	VAL
2	H	450	GLY
2	H	646	GLY
2	H	855	VAL
2	H	905	ILE
3	I	1050	GLY
3	I	1385	GLY
3	I	1411	GLY
2	M	74	GLY
2	M	243	ARG
2	M	779	GLY
2	C	74	GLY
2	C	779	GLY
3	D	108	VAL
3	D	1224	VAL
3	D	1385	GLY
2	H	779	GLY
2	M	646	GLY
4	O	46	PRO
2	C	727	PRO
2	C	797	GLY
3	D	683	ILE
3	D	1067	VAL
2	H	74	GLY
2	H	587	VAL

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	H	797	GLY
2	H	1076	VAL
3	I	108	VAL
2	M	77	PRO
7	X	124	PRO
3	D	1371	VAL
1	K	21	GLY
3	N	136	ASP

5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	196/273 (72%)	171 (87%)	25 (13%)	4	19
1	B	196/273 (72%)	168 (86%)	28 (14%)	3	16
1	F	195/273 (71%)	158 (81%)	37 (19%)	1	10
1	G	196/273 (72%)	156 (80%)	40 (20%)	1	8
1	K	195/273 (71%)	168 (86%)	27 (14%)	3	17
1	L	196/273 (72%)	167 (85%)	29 (15%)	3	15
2	C	932/941 (99%)	716 (77%)	216 (23%)	1	5
2	H	930/941 (99%)	729 (78%)	201 (22%)	1	6
2	M	932/941 (99%)	741 (80%)	191 (20%)	1	8
3	D	1142/1279 (89%)	936 (82%)	206 (18%)	2	11
3	I	1092/1279 (85%)	902 (83%)	190 (17%)	2	12
3	N	1143/1279 (89%)	955 (84%)	188 (16%)	2	13
4	E	82/88 (93%)	69 (84%)	13 (16%)	2	14
4	J	82/88 (93%)	68 (83%)	14 (17%)	2	12
4	O	82/88 (93%)	69 (84%)	13 (16%)	2	14
7	X	128/131 (98%)	110 (86%)	18 (14%)	3	17
7	Y	128/131 (98%)	107 (84%)	21 (16%)	2	13

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
7	Z	128/131 (98%)	109 (85%)	19 (15%)	3 15
All	All	7975/8955 (89%)	6499 (82%)	1476 (18%)	1 10

All (1476) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	7	LYS
1	A	26	GLU
1	A	30	ARG
1	A	34	VAL
1	A	51	THR
1	A	62	LEU
1	A	65	PHE
1	A	74	ASP
1	A	100	LEU
1	A	101	LEU
1	A	126	ASP
1	A	131	THR
1	A	141	GLU
1	A	158	ILE
1	A	161	ARG
1	A	163	ASN
1	A	165	ILE
1	A	170	VAL
1	A	175	ARG
1	A	180	GLN
1	A	184	THR
1	A	189	ARG
1	A	206	THR
1	A	207	PRO
1	A	219	ARG
1	B	18	ARG
1	B	25	LEU
1	B	28	LEU
1	B	29	GLU
1	B	34	VAL
1	B	59	GLU
1	B	62	LEU
1	B	65	PHE
1	B	73	GLU
1	B	95	GLN
1	B	104	GLU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	B	159	LYS
1	B	161	ARG
1	B	162	ILE
1	B	163	ASN
1	B	165	ILE
1	B	167	VAL
1	B	168	ASP
1	B	176	ARG
1	B	179	PHE
1	B	180	GLN
1	B	185	ARG
1	B	197	LEU
1	B	198	ARG
1	B	201	THR
1	B	206	THR
1	B	209	GLU
1	B	227	ASN
2	C	6	PHE
2	C	20	GLU
2	C	21	ILE
2	C	26	TYR
2	C	30	LEU
2	C	31	GLN
2	C	33	ASP
2	C	34	VAL
2	C	39	ARG
2	C	48	PHE
2	C	49	ARG
2	C	50	GLU
2	C	64	LEU
2	C	67	ASP
2	C	75	GLU
2	C	77	PRO
2	C	80	GLN
2	C	84	ARG
2	C	88	LEU
2	C	89	THR
2	C	94	LEU
2	C	95	TYR
2	C	98	LEU
2	C	104	ASP
2	C	107	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	C	112	GLU
2	C	113	VAL
2	C	114	PHE
2	C	115	LEU
2	C	117	HIS
2	C	118	ILE
2	C	122	THR
2	C	124	ASP
2	C	142	ARG
2	C	144	PRO
2	C	158	TYR
2	C	172	ILE
2	C	173	ASP
2	C	178	PRO
2	C	181	VAL
2	C	187	ASN
2	C	189	ARG
2	C	190	LYS
2	C	192	PRO
2	C	198	ARG
2	C	205	GLU
2	C	206	THR
2	C	209	ARG
2	C	210	GLU
2	C	211	LEU
2	C	216	GLU
2	C	217	LEU
2	C	218	VAL
2	C	237	ARG
2	C	238	LEU
2	C	241	LEU
2	C	242	LEU
2	C	248	PRO
2	C	250	ARG
2	C	251	ASP
2	C	252	LYS
2	C	260	LEU
2	C	261	ILE
2	C	264	PRO
2	C	267	TYR
2	C	281	LEU
2	C	283	ILE

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	C	285	LEU
2	C	289	THR
2	C	290	LEU
2	C	293	PHE
2	C	295	ASP
2	C	297	GLU
2	C	298	PHE
2	C	302	VAL
2	C	306	THR
2	C	313	LEU
2	C	321	GLU
2	C	322	VAL
2	C	325	ILE
2	C	328	LEU
2	C	335	THR
2	C	343	GLN
2	C	345	ARG
2	C	348	LEU
2	C	360	LEU
2	C	364	GLU
2	C	367	LEU
2	C	368	THR
2	C	371	LYS
2	C	372	LEU
2	C	374	ASN
2	C	376	ARG
2	C	383	ARG
2	C	388	ARG
2	C	393	GLN
2	C	410	ILE
2	C	415	PRO
2	C	418	LEU
2	C	419	THR
2	C	422	ARG
2	C	425	PHE
2	C	427	VAL
2	C	430	VAL
2	C	433	THR
2	C	441	VAL
2	C	453	THR
2	C	455	LEU
2	C	469	THR

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	C	474	VAL
2	C	480	THR
2	C	486	MET
2	C	496	ILE
2	C	498	GLN
2	C	500	ASN
2	C	503	LEU
2	C	506	ASN
2	C	514	VAL
2	C	523	ILE
2	C	525	SER
2	C	556	ASN
2	C	557	ARG
2	C	560	MET
2	C	569	VAL
2	C	572	ILE
2	C	575	GLN
2	C	579	VAL
2	C	584	GLU
2	C	602	GLU
2	C	606	VAL
2	C	609	ASN
2	C	611	ILE
2	C	613	VAL
2	C	621	VAL
2	C	635	THR
2	C	640	ARG
2	C	642	ARG
2	C	645	VAL
2	C	654	LEU
2	C	661	SER
2	C	662	GLU
2	C	668	LEU
2	C	674	VAL
2	C	683	ASN
2	C	685	GLU
2	C	691	SER
2	C	695	LEU
2	C	699	PHE
2	C	701	THR
2	C	702	SER
2	C	704	HIS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	C	714	ASP
2	C	722	ILE
2	C	727	PRO
2	C	728	HIS
2	C	729	LEU
2	C	738	ASP
2	C	740	GLU
2	C	754	ILE
2	C	764	GLU
2	C	766	GLU
2	C	768	THR
2	C	783	ARG
2	C	784	ASP
2	C	785	VAL
2	C	787	ASP
2	C	794	PRO
2	C	796	GLU
2	C	799	ILE
2	C	800	VAL
2	C	805	ARG
2	C	815	LEU
2	C	839	LEU
2	C	858	MET
2	C	863	ASP
2	C	869	VAL
2	C	870	ILE
2	C	881	ASN
2	C	886	LEU
2	C	900	ARG
2	C	904	PRO
2	C	918	LEU
2	C	920	GLN
2	C	923	GLU
2	C	929	ARG
2	C	938	LYS
2	C	939	ARG
2	C	946	ARG
2	C	950	LEU
2	C	952	LEU
2	C	958	THR
2	C	959	PRO
2	C	969	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	C	975	TYR
2	C	981	GLU
2	C	988	VAL
2	C	995	MET
2	C	999	HIS
2	C	1004	LYS
2	C	1005	MET
2	C	1010	THR
2	C	1012	PRO
2	C	1027	PHE
2	C	1035	MET
2	C	1040	LEU
2	C	1050	GLN
2	C	1052	MET
2	C	1060	ILE
2	C	1076	VAL
2	C	1088	LEU
2	C	1092	LEU
2	C	1095	LEU
2	C	1097	LEU
2	C	1103	ASP
2	C	1105	LYS
2	C	1111	ILE
3	D	3	LYS
3	D	10	ILE
3	D	21	TRP
3	D	34	TYR
3	D	37	LEU
3	D	47	GLU
3	D	52	PRO
3	D	55	ASP
3	D	57	GLU
3	D	64	LYS
3	D	69	GLU
3	D	74	GLU
3	D	75	ARG
3	D	80	VAL
3	D	84	ILE
3	D	95	LEU
3	D	98	PRO
3	D	101	HIS
3	D	102	ILE

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
3	D	108	VAL
3	D	112	ILE
3	D	124	GLU
3	D	127	LEU
3	D	128	TYR
3	D	136	ASP
3	D	137	PRO
3	D	138	LYS
3	D	141	ILE
3	D	143	ASN
3	D	147	VAL
3	D	149	LYS
3	D	151	GLN
3	D	153	LEU
3	D	154	THR
3	D	157	GLU
3	D	162	ARG
3	D	166	GLN
3	D	199	LEU
3	D	200	ASP
3	D	205	TYR
3	D	209	ARG
3	D	213	VAL
3	D	350	HIS
3	D	351	MET
3	D	361	VAL
3	D	387	LEU
3	D	392	SER
3	D	404	GLU
3	D	408	GLU
3	D	417	PRO
3	D	431	VAL
3	D	434	ARG
3	D	447	VAL
3	D	448	GLU
3	D	449	SER
3	D	452	ILE
3	D	455	ARG
3	D	456	MET
3	D	463	GLN
3	D	465	LEU
3	D	470	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
3	D	471	GLU
3	D	475	LYS
3	D	486	ARG
3	D	489	ARG
3	D	504	ASP
3	D	512	MET
3	D	515	GLU
3	D	592	THR
3	D	593	ASN
3	D	594	PRO
3	D	596	SER
3	D	600	LEU
3	D	602	SER
3	D	619	LEU
3	D	622	ARG
3	D	624	ASP
3	D	631	ILE
3	D	639	LEU
3	D	641	GLN
3	D	651	GLU
3	D	652	LEU
3	D	660	LYS
3	D	681	ARG
3	D	682	ASP
3	D	686	GLU
3	D	688	TRP
3	D	689	ASP
3	D	701	LEU
3	D	702	LEU
3	D	709	HIS
3	D	710	ARG
3	D	747	VAL
3	D	749	VAL
3	D	764	LEU
3	D	765	SER
3	D	772	PRO
3	D	778	LEU
3	D	783	ARG
3	D	785	ILE
3	D	787	LEU
3	D	792	ILE
3	D	799	LYS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
3	D	804	LEU
3	D	805	GLU
3	D	810	GLU
3	D	817	GLU
3	D	824	ASN
3	D	828	LYS
3	D	833	GLU
3	D	851	LEU
3	D	855	HIS
3	D	861	GLN
3	D	863	VAL
3	D	867	ARG
3	D	890	VAL
3	D	892	ASP
3	D	897	TRP
3	D	900	ILE
3	D	902	LEU
3	D	914	LEU
3	D	915	VAL
3	D	922	LEU
3	D	925	GLU
3	D	952	ASP
3	D	955	VAL
3	D	959	GLU
3	D	964	LEU
3	D	982	PHE
3	D	983	LEU
3	D	988	ARG
3	D	991	GLN
3	D	999	THR
3	D	1001	GLU
3	D	1003	VAL
3	D	1025	GLN
3	D	1029	ARG
3	D	1031	ASN
3	D	1039	CYS
3	D	1041	LEU
3	D	1042	ARG
3	D	1053	PHE
3	D	1061	PHE
3	D	1062	ARG
3	D	1067	VAL

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
3	D	1068	LEU
3	D	1079	LYS
3	D	1087	ARG
3	D	1090	ASP
3	D	1095	THR
3	D	1098	LEU
3	D	1105	ILE
3	D	1108	ARG
3	D	1109	GLU
3	D	1128	VAL
3	D	1135	ARG
3	D	1151	ARG
3	D	1161	GLU
3	D	1166	LEU
3	D	1183	ILE
3	D	1204	CYS
3	D	1207	TYR
3	D	1234	THR
3	D	1254	GLN
3	D	1256	LEU
3	D	1257	PRO
3	D	1261	GLU
3	D	1262	LEU
3	D	1264	GLU
3	D	1282	ARG
3	D	1296	SER
3	D	1299	PHE
3	D	1302	GLU
3	D	1304	LYS
3	D	1305	LEU
3	D	1311	LEU
3	D	1314	LYS
3	D	1320	GLU
3	D	1325	LEU
3	D	1330	ILE
3	D	1337	GLU
3	D	1342	GLU
3	D	1355	VAL
3	D	1381	VAL
3	D	1382	THR
3	D	1383	ASP
3	D	1386	ASP

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
3	D	1387	SER
3	D	1388	ARG
3	D	1390	LEU
3	D	1395	LEU
3	D	1396	GLU
3	D	1410	GLU
3	D	1424	VAL
3	D	1425	THR
3	D	1434	TRP
3	D	1439	SER
3	D	1440	PHE
3	D	1452	ILE
3	D	1465	ASN
3	D	1466	VAL
3	D	1472	ILE
3	D	1485	GLN
3	D	1488	ASP
3	D	1495	ILE
3	D	1496	GLU
4	E	14	ASP
4	E	18	ARG
4	E	20	THR
4	E	22	VAL
4	E	30	LEU
4	E	36	LYS
4	E	37	ASN
4	E	48	MET
4	E	62	THR
4	E	72	ARG
4	E	74	VAL
4	E	78	ASN
4	E	81	PRO
1	F	16	GLN
1	F	26	GLU
1	F	30	ARG
1	F	34	VAL
1	F	35	THR
1	F	41	ARG
1	F	47	SER
1	F	49	PRO
1	F	58	ILE
1	F	60	ASP

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	F	62	LEU
1	F	65	PHE
1	F	74	ASP
1	F	76	VAL
1	F	80	LEU
1	F	96	THR
1	F	99	LEU
1	F	100	LEU
1	F	108	GLU
1	F	116	PRO
1	F	119	ASP
1	F	120	VAL
1	F	122	ILE
1	F	127	LEU
1	F	140	MET
1	F	163	ASN
1	F	175	ARG
1	F	176	ARG
1	F	180	GLN
1	F	182	GLU
1	F	184	THR
1	F	188	GLN
1	F	189	ARG
1	F	204	SER
1	F	211	LEU
1	F	216	GLU
1	F	219	ARG
1	G	7	LYS
1	G	19	GLU
1	G	26	GLU
1	G	32	PHE
1	G	35	THR
1	G	36	LEU
1	G	43	ILE
1	G	60	ASP
1	G	62	LEU
1	G	64	GLU
1	G	65	PHE
1	G	66	SER
1	G	67	THR
1	G	69	PRO
1	G	73	GLU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	G	75	VAL
1	G	80	LEU
1	G	91	ASN
1	G	95	GLN
1	G	99	LEU
1	G	101	LEU
1	G	113	ASP
1	G	123	MET
1	G	140	MET
1	G	162	ILE
1	G	163	ASN
1	G	165	ILE
1	G	167	VAL
1	G	170	VAL
1	G	179	PHE
1	G	181	VAL
1	G	182	GLU
1	G	184	THR
1	G	188	GLN
1	G	194	LYS
1	G	197	LEU
1	G	199	ILE
1	G	201	THR
1	G	212	ASN
1	G	213	GLN
2	H	1	MET
2	H	6	PHE
2	H	21	ILE
2	H	26	TYR
2	H	30	LEU
2	H	31	GLN
2	H	33	ASP
2	H	34	VAL
2	H	39	ARG
2	H	48	PHE
2	H	52	PHE
2	H	54	ILE
2	H	67	ASP
2	H	75	GLU
2	H	80	GLN
2	H	88	LEU
2	H	89	THR

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	H	94	LEU
2	H	95	TYR
2	H	98	LEU
2	H	104	ASP
2	H	107	LEU
2	H	113	VAL
2	H	115	LEU
2	H	117	HIS
2	H	118	ILE
2	H	121	MET
2	H	142	ARG
2	H	144	PRO
2	H	150	PRO
2	H	158	TYR
2	H	163	ILE
2	H	172	ILE
2	H	173	ASP
2	H	191	PHE
2	H	194	VAL
2	H	196	LEU
2	H	198	ARG
2	H	199	VAL
2	H	209	ARG
2	H	211	LEU
2	H	218	VAL
2	H	230	ARG
2	H	233	GLU
2	H	237	ARG
2	H	238	LEU
2	H	240	THR
2	H	241	LEU
2	H	243	ARG
2	H	250	ARG
2	H	251	ASP
2	H	257	VAL
2	H	261	ILE
2	H	263	ASP
2	H	264	PRO
2	H	267	TYR
2	H	268	ASP
2	H	269	LEU
2	H	274	ARG

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	H	275	TYR
2	H	279	GLU
2	H	281	LEU
2	H	285	LEU
2	H	289	THR
2	H	292	ARG
2	H	293	PHE
2	H	294	GLU
2	H	295	ASP
2	H	297	GLU
2	H	298	PHE
2	H	302	VAL
2	H	306	THR
2	H	313	LEU
2	H	321	GLU
2	H	335	THR
2	H	343	GLN
2	H	345	ARG
2	H	348	LEU
2	H	351	LEU
2	H	358	ARG
2	H	359	MET
2	H	360	LEU
2	H	364	GLU
2	H	365	ASP
2	H	366	SER
2	H	367	LEU
2	H	383	ARG
2	H	388	ARG
2	H	390	GLN
2	H	391	LEU
2	H	393	GLN
2	H	394	PHE
2	H	403	SER
2	H	410	ILE
2	H	418	LEU
2	H	419	THR
2	H	421	GLU
2	H	422	ARG
2	H	433	THR
2	H	453	THR
2	H	455	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	H	464	LEU
2	H	474	VAL
2	H	480	THR
2	H	486	MET
2	H	496	ILE
2	H	498	GLN
2	H	500	ASN
2	H	504	GLU
2	H	508	ILE
2	H	523	ILE
2	H	542	VAL
2	H	545	ASN
2	H	546	LEU
2	H	556	ASN
2	H	557	ARG
2	H	564	MET
2	H	579	VAL
2	H	584	GLU
2	H	585	GLU
2	H	592	LEU
2	H	603	VAL
2	H	606	VAL
2	H	609	ASN
2	H	611	ILE
2	H	613	VAL
2	H	620	LEU
2	H	621	VAL
2	H	625	LEU
2	H	635	THR
2	H	645	VAL
2	H	654	LEU
2	H	662	GLU
2	H	668	LEU
2	H	680	ASP
2	H	691	SER
2	H	695	LEU
2	H	699	PHE
2	H	701	THR
2	H	702	SER
2	H	714	ASP
2	H	722	ILE
2	H	728	HIS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	H	730	SER
2	H	740	GLU
2	H	764	GLU
2	H	766	GLU
2	H	783	ARG
2	H	785	VAL
2	H	787	ASP
2	H	803	THR
2	H	805	ARG
2	H	807	ARG
2	H	839	LEU
2	H	855	VAL
2	H	862	PRO
2	H	863	ASP
2	H	869	VAL
2	H	870	ILE
2	H	884	GLN
2	H	901	TYR
2	H	918	LEU
2	H	920	GLN
2	H	923	GLU
2	H	929	ARG
2	H	932	GLU
2	H	939	ARG
2	H	946	ARG
2	H	950	LEU
2	H	952	LEU
2	H	953	VAL
2	H	954	THR
2	H	958	THR
2	H	963	LEU
2	H	966	LEU
2	H	983	ILE
2	H	988	VAL
2	H	995	MET
2	H	1000	MET
2	H	1004	LYS
2	H	1005	MET
2	H	1014	SER
2	H	1018	GLN
2	H	1026	GLN
2	H	1030	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	H	1035	MET
2	H	1052	MET
2	H	1057	SER
2	H	1058	ASP
2	H	1060	ILE
2	H	1061	GLU
2	H	1064	ASN
2	H	1076	VAL
2	H	1080	SER
2	H	1083	GLU
2	H	1095	LEU
2	H	1097	LEU
2	H	1103	ASP
2	H	1104	GLU
2	H	1105	LYS
2	H	1111	ILE
3	I	6	ARG
3	I	10	ILE
3	I	21	TRP
3	I	42	ASP
3	I	47	GLU
3	I	56	TYR
3	I	57	GLU
3	I	60	CYS
3	I	64	LYS
3	I	69	GLU
3	I	73	CYS
3	I	74	GLU
3	I	75	ARG
3	I	76	CYS
3	I	80	VAL
3	I	84	ILE
3	I	95	LEU
3	I	105	VAL
3	I	108	VAL
3	I	112	ILE
3	I	116	LEU
3	I	121	THR
3	I	123	LEU
3	I	127	LEU
3	I	128	TYR
3	I	131	LYS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
3	I	134	VAL
3	I	138	LYS
3	I	141	ILE
3	I	143	ASN
3	I	146	PRO
3	I	149	LYS
3	I	151	GLN
3	I	152	LEU
3	I	153	LEU
3	I	154	THR
3	I	157	GLU
3	I	162	ARG
3	I	163	TYR
3	I	165	LYS
3	I	176	ASP
3	I	195	VAL
3	I	204	LEU
3	I	206	ARG
3	I	405	ASP
3	I	406	ASP
3	I	434	ARG
3	I	438	ASP
3	I	447	VAL
3	I	448	GLU
3	I	450	TYR
3	I	452	ILE
3	I	453	ASP
3	I	463	GLN
3	I	465	LEU
3	I	471	GLU
3	I	499	VAL
3	I	504	ASP
3	I	507	ASN
3	I	512	MET
3	I	538	SER
3	I	549	ASN
3	I	566	ILE
3	I	598	ARG
3	I	600	LEU
3	I	624	ASP
3	I	626	SER
3	I	639	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
3	I	641	GLN
3	I	642	CYS
3	I	651	GLU
3	I	652	LEU
3	I	660	LYS
3	I	670	VAL
3	I	676	MET
3	I	678	GLU
3	I	679	ARG
3	I	681	ARG
3	I	685	ASP
3	I	686	GLU
3	I	688	TRP
3	I	701	LEU
3	I	707	THR
3	I	721	VAL
3	I	734	GLU
3	I	747	VAL
3	I	749	VAL
3	I	765	SER
3	I	778	LEU
3	I	781	PRO
3	I	783	ARG
3	I	784	ASP
3	I	792	ILE
3	I	800	LYS
3	I	805	GLU
3	I	824	ASN
3	I	833	GLU
3	I	842	VAL
3	I	845	ASN
3	I	857	ILE
3	I	863	VAL
3	I	864	VAL
3	I	880	ILE
3	I	886	VAL
3	I	892	ASP
3	I	897	TRP
3	I	900	ILE
3	I	907	GLU
3	I	917	GLN
3	I	922	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
3	I	925	GLU
3	I	927	THR
3	I	944	THR
3	I	955	VAL
3	I	959	GLU
3	I	964	LEU
3	I	982	PHE
3	I	983	LEU
3	I	991	GLN
3	I	999	THR
3	I	1000	THR
3	I	1001	GLU
3	I	1025	GLN
3	I	1031	ASN
3	I	1041	LEU
3	I	1042	ARG
3	I	1049	SER
3	I	1062	ARG
3	I	1068	LEU
3	I	1084	THR
3	I	1088	THR
3	I	1095	THR
3	I	1108	ARG
3	I	1109	GLU
3	I	1112	CYS
3	I	1114	THR
3	I	1119	SER
3	I	1127	GLU
3	I	1131	SER
3	I	1132	LEU
3	I	1135	ARG
3	I	1151	ARG
3	I	1156	LEU
3	I	1161	GLU
3	I	1166	LEU
3	I	1183	ILE
3	I	1197	ARG
3	I	1207	TYR
3	I	1209	LEU
3	I	1210	SER
3	I	1216	SER
3	I	1236	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
3	I	1252	ILE
3	I	1262	LEU
3	I	1264	GLU
3	I	1282	ARG
3	I	1290	LEU
3	I	1297	GLU
3	I	1299	PHE
3	I	1304	LYS
3	I	1305	LEU
3	I	1306	PRO
3	I	1310	ARG
3	I	1311	LEU
3	I	1320	GLU
3	I	1325	LEU
3	I	1337	GLU
3	I	1339	LYS
3	I	1348	LEU
3	I	1352	ILE
3	I	1355	VAL
3	I	1359	GLN
3	I	1382	THR
3	I	1389	LEU
3	I	1390	LEU
3	I	1396	GLU
3	I	1415	VAL
3	I	1424	VAL
3	I	1431	THR
3	I	1434	TRP
3	I	1435	LEU
3	I	1460	ILE
3	I	1466	VAL
3	I	1472	ILE
3	I	1483	PHE
3	I	1485	GLN
3	I	1488	ASP
3	I	1492	LEU
3	I	1496	GLU
3	I	1501	GLU
4	J	9	LEU
4	J	12	MET
4	J	13	VAL
4	J	30	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
4	J	31	LEU
4	J	37	ASN
4	J	38	THR
4	J	43	GLU
4	J	45	ARG
4	J	51	LEU
4	J	57	ASP
4	J	74	VAL
4	J	81	PRO
4	J	89	MET
1	K	9	PRO
1	K	16	GLN
1	K	19	GLU
1	K	26	GLU
1	K	43	ILE
1	K	64	GLU
1	K	65	PHE
1	K	68	ILE
1	K	74	ASP
1	K	89	PHE
1	K	96	THR
1	K	119	ASP
1	K	123	MET
1	K	133	GLU
1	K	140	MET
1	K	141	GLU
1	K	143	ARG
1	K	151	VAL
1	K	162	ILE
1	K	165	ILE
1	K	175	ARG
1	K	176	ARG
1	K	180	GLN
1	K	185	ARG
1	K	199	ILE
1	K	205	VAL
1	K	206	THR
1	L	7	LYS
1	L	15	THR
1	L	25	LEU
1	L	26	GLU
1	L	32	PHE

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	L	34	VAL
1	L	53	VAL
1	L	62	LEU
1	L	66	SER
1	L	67	THR
1	L	73	GLU
1	L	84	GLU
1	L	87	VAL
1	L	88	ARG
1	L	91	ASN
1	L	99	LEU
1	L	104	GLU
1	L	119	ASP
1	L	123	MET
1	L	161	ARG
1	L	163	ASN
1	L	167	VAL
1	L	179	PHE
1	L	197	LEU
1	L	198	ARG
1	L	206	THR
1	L	213	GLN
1	L	223	THR
1	L	227	ASN
2	M	6	PHE
2	M	19	THR
2	M	20	GLU
2	M	31	GLN
2	M	33	ASP
2	M	34	VAL
2	M	39	ARG
2	M	48	PHE
2	M	49	ARG
2	M	56	GLU
2	M	75	GLU
2	M	80	GLN
2	M	88	LEU
2	M	89	THR
2	M	91	GLN
2	M	94	LEU
2	M	95	TYR
2	M	98	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	M	100	LEU
2	M	104	ASP
2	M	108	ILE
2	M	114	PHE
2	M	115	LEU
2	M	117	HIS
2	M	118	ILE
2	M	121	MET
2	M	133	ASP
2	M	142	ARG
2	M	158	TYR
2	M	163	ILE
2	M	168	ARG
2	M	173	ASP
2	M	179	ASN
2	M	189	ARG
2	M	190	LYS
2	M	194	VAL
2	M	195	LEU
2	M	198	ARG
2	M	200	LEU
2	M	203	ASP
2	M	204	GLN
2	M	205	GLU
2	M	209	ARG
2	M	229	MET
2	M	235	LEU
2	M	237	ARG
2	M	238	LEU
2	M	241	LEU
2	M	249	LYS
2	M	250	ARG
2	M	254	VAL
2	M	260	LEU
2	M	267	TYR
2	M	268	ASP
2	M	274	ARG
2	M	278	GLU
2	M	279	GLU
2	M	281	LEU
2	M	285	LEU
2	M	289	THR

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	M	293	PHE
2	M	295	ASP
2	M	297	GLU
2	M	302	VAL
2	M	304	LEU
2	M	321	GLU
2	M	335	THR
2	M	343	GLN
2	M	345	ARG
2	M	348	LEU
2	M	358	ARG
2	M	359	MET
2	M	360	LEU
2	M	361	MET
2	M	363	SER
2	M	367	LEU
2	M	371	LYS
2	M	372	LEU
2	M	374	ASN
2	M	376	ARG
2	M	383	ARG
2	M	387	SER
2	M	388	ARG
2	M	390	GLN
2	M	393	GLN
2	M	415	PRO
2	M	418	LEU
2	M	419	THR
2	M	421	GLU
2	M	422	ARG
2	M	433	THR
2	M	441	VAL
2	M	453	THR
2	M	455	LEU
2	M	469	THR
2	M	481	ASP
2	M	484	VAL
2	M	486	MET
2	M	496	ILE
2	M	498	GLN
2	M	500	ASN
2	M	503	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	M	504	GLU
2	M	508	ILE
2	M	514	VAL
2	M	523	ILE
2	M	545	ASN
2	M	548	PRO
2	M	556	ASN
2	M	559	LEU
2	M	569	VAL
2	M	572	ILE
2	M	584	GLU
2	M	590	ASP
2	M	595	LEU
2	M	602	GLU
2	M	606	VAL
2	M	609	ASN
2	M	613	VAL
2	M	621	VAL
2	M	635	THR
2	M	638	ASP
2	M	645	VAL
2	M	648	ARG
2	M	654	LEU
2	M	662	GLU
2	M	668	LEU
2	M	670	GLN
2	M	680	ASP
2	M	690	ILE
2	M	691	SER
2	M	695	LEU
2	M	699	PHE
2	M	701	THR
2	M	702	SER
2	M	710	ILE
2	M	714	ASP
2	M	722	ILE
2	M	724	ARG
2	M	727	PRO
2	M	738	ASP
2	M	739	GLU
2	M	740	GLU
2	M	748	GLU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	M	764	GLU
2	M	783	ARG
2	M	794	PRO
2	M	796	GLU
2	M	803	THR
2	M	805	ARG
2	M	815	LEU
2	M	839	LEU
2	M	863	ASP
2	M	869	VAL
2	M	870	ILE
2	M	881	ASN
2	M	884	GLN
2	M	885	ILE
2	M	905	ILE
2	M	918	LEU
2	M	920	GLN
2	M	923	GLU
2	M	938	LYS
2	M	939	ARG
2	M	946	ARG
2	M	950	LEU
2	M	953	VAL
2	M	958	THR
2	M	975	TYR
2	M	981	GLU
2	M	988	VAL
2	M	995	MET
2	M	999	HIS
2	M	1000	MET
2	M	1004	LYS
2	M	1005	MET
2	M	1012	PRO
2	M	1027	PHE
2	M	1035	MET
2	M	1040	LEU
2	M	1052	MET
2	M	1055	LEU
2	M	1057	SER
2	M	1060	ILE
2	M	1063	ARG
2	M	1076	VAL

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	M	1080	SER
2	M	1088	LEU
2	M	1097	LEU
2	M	1105	LYS
2	M	1112	PHE
3	N	10	ILE
3	N	21	TRP
3	N	41	ARG
3	N	47	GLU
3	N	53	ILE
3	N	55	ASP
3	N	57	GLU
3	N	60	CYS
3	N	69	GLU
3	N	74	GLU
3	N	75	ARG
3	N	80	VAL
3	N	87	ARG
3	N	95	LEU
3	N	108	VAL
3	N	112	ILE
3	N	127	LEU
3	N	128	TYR
3	N	135	LEU
3	N	137	PRO
3	N	141	ILE
3	N	149	LYS
3	N	150	ARG
3	N	153	LEU
3	N	154	THR
3	N	158	TYR
3	N	162	ARG
3	N	163	TYR
3	N	165	LYS
3	N	197	SER
3	N	206	ARG
3	N	213	VAL
3	N	349	PRO
3	N	351	MET
3	N	361	VAL
3	N	387	LEU
3	N	405	ASP

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
3	N	408	GLU
3	N	410	SER
3	N	447	VAL
3	N	448	GLU
3	N	451	ASP
3	N	452	ILE
3	N	453	ASP
3	N	465	LEU
3	N	470	LEU
3	N	471	GLU
3	N	486	ARG
3	N	489	ARG
3	N	507	ASN
3	N	512	MET
3	N	538	SER
3	N	549	ASN
3	N	552	ASN
3	N	570	GLU
3	N	605	ASP
3	N	611	GLN
3	N	617	ASN
3	N	618	LEU
3	N	624	ASP
3	N	626	SER
3	N	631	ILE
3	N	636	GLN
3	N	639	LEU
3	N	641	GLN
3	N	651	GLU
3	N	652	LEU
3	N	660	LYS
3	N	676	MET
3	N	682	ASP
3	N	685	ASP
3	N	686	GLU
3	N	688	TRP
3	N	701	LEU
3	N	703	ASN
3	N	709	HIS
3	N	710	ARG
3	N	721	VAL
3	N	727	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
3	N	732	VAL
3	N	733	CYS
3	N	734	GLU
3	N	749	VAL
3	N	765	SER
3	N	778	LEU
3	N	783	ARG
3	N	792	ILE
3	N	799	LYS
3	N	804	LEU
3	N	805	GLU
3	N	808	THR
3	N	827	ILE
3	N	833	GLU
3	N	842	VAL
3	N	862	ASP
3	N	863	VAL
3	N	876	SER
3	N	881	LEU
3	N	892	ASP
3	N	897	TRP
3	N	900	ILE
3	N	914	LEU
3	N	920	LEU
3	N	922	LEU
3	N	927	THR
3	N	930	LEU
3	N	940	THR
3	N	944	THR
3	N	947	ILE
3	N	955	VAL
3	N	959	GLU
3	N	964	LEU
3	N	970	LYS
3	N	973	GLN
3	N	982	PHE
3	N	983	LEU
3	N	988	ARG
3	N	991	GLN
3	N	1001	GLU
3	N	1012	GLU
3	N	1025	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
3	N	1029	ARG
3	N	1042	ARG
3	N	1053	PHE
3	N	1062	ARG
3	N	1068	LEU
3	N	1083	ASP
3	N	1090	ASP
3	N	1095	THR
3	N	1100	ASP
3	N	1105	ILE
3	N	1108	ARG
3	N	1109	GLU
3	N	1112	CYS
3	N	1131	SER
3	N	1135	ARG
3	N	1151	ARG
3	N	1156	LEU
3	N	1161	GLU
3	N	1165	TYR
3	N	1166	LEU
3	N	1183	ILE
3	N	1195	GLN
3	N	1204	CYS
3	N	1207	TYR
3	N	1208	ASP
3	N	1236	LEU
3	N	1237	THR
3	N	1254	GLN
3	N	1257	PRO
3	N	1261	GLU
3	N	1262	LEU
3	N	1264	GLU
3	N	1274	ILE
3	N	1282	ARG
3	N	1287	GLU
3	N	1297	GLU
3	N	1299	PHE
3	N	1305	LEU
3	N	1311	LEU
3	N	1320	GLU
3	N	1325	LEU
3	N	1337	GLU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
3	N	1342	GLU
3	N	1355	VAL
3	N	1382	THR
3	N	1387	SER
3	N	1388	ARG
3	N	1389	LEU
3	N	1396	GLU
3	N	1415	VAL
3	N	1424	VAL
3	N	1432	LYS
3	N	1434	TRP
3	N	1435	LEU
3	N	1440	PHE
3	N	1455	LYS
3	N	1460	ILE
3	N	1462	LEU
3	N	1464	GLU
3	N	1465	ASN
3	N	1470	ARG
3	N	1472	ILE
3	N	1483	PHE
3	N	1485	GLN
3	N	1488	ASP
3	N	1496	GLU
3	N	1501	GLU
4	O	7	ASP
4	O	30	LEU
4	O	31	LEU
4	O	41	GLU
4	O	44	GLU
4	O	45	ARG
4	O	50	THR
4	O	57	ASP
4	O	59	ASN
4	O	73	LEU
4	O	78	ASN
4	O	82	GLU
4	O	84	ARG
7	X	32	ILE
7	X	41	ASP
7	X	43	TYR
7	X	44	ASP

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
7	X	58	ILE
7	X	73	VAL
7	X	74	ILE
7	X	76	GLU
7	X	85	LEU
7	X	98	GLU
7	X	99	ARG
7	X	102	VAL
7	X	114	ASP
7	X	115	THR
7	X	124	PRO
7	X	125	MET
7	X	133	ARG
7	X	138	LEU
7	Y	34	GLN
7	Y	43	TYR
7	Y	73	VAL
7	Y	74	ILE
7	Y	76	GLU
7	Y	85	LEU
7	Y	98	GLU
7	Y	99	ARG
7	Y	102	VAL
7	Y	105	VAL
7	Y	107	PRO
7	Y	113	LEU
7	Y	114	ASP
7	Y	115	THR
7	Y	119	ILE
7	Y	124	PRO
7	Y	133	ARG
7	Y	138	LEU
7	Y	143	PRO
7	Y	154	ILE
7	Y	155	HIS
7	Z	64	SER
7	Z	71	ARG
7	Z	73	VAL
7	Z	76	GLU
7	Z	81	GLU
7	Z	85	LEU
7	Z	98	GLU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
7	Z	99	ARG
7	Z	102	VAL
7	Z	107	PRO
7	Z	112	VAL
7	Z	113	LEU
7	Z	114	ASP
7	Z	115	THR
7	Z	117	MET
7	Z	119	ILE
7	Z	138	LEU
7	Z	139	SER
7	Z	141	ASP

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (268) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	38	ASN
1	A	63	HIS
1	A	91	ASN
1	A	124	ASN
1	A	128	HIS
1	A	139	ASN
1	A	156	HIS
1	A	163	ASN
1	A	180	GLN
1	A	188	GLN
1	A	213	GLN
1	A	221	HIS
1	A	229	GLN
1	B	16	GLN
1	B	38	ASN
1	B	91	ASN
1	B	95	GLN
1	B	180	GLN
1	B	213	GLN
1	B	227	ASN
2	C	22	GLN
2	C	31	GLN
2	C	41	ASN
2	C	45	GLN
2	C	99	GLN
2	C	102	HIS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	C	219	GLN
2	C	320	HIS
2	C	327	HIS
2	C	343	GLN
2	C	374	ASN
2	C	390	GLN
2	C	431	HIS
2	C	498	GLN
2	C	543	ASN
2	C	552	HIS
2	C	575	GLN
2	C	633	GLN
2	C	639	GLN
2	C	670	GLN
2	C	834	GLN
2	C	845	ASN
2	C	872	ASN
2	C	881	ASN
2	C	884	GLN
2	C	899	GLN
2	C	969	GLN
2	C	999	HIS
2	C	1047	HIS
2	C	1100	GLN
2	C	1107	ASN
3	D	151	GLN
3	D	166	GLN
3	D	189	GLN
3	D	386	HIS
3	D	463	GLN
3	D	549	ASN
3	D	560	GLN
3	D	569	ASN
3	D	593	ASN
3	D	669	ASN
3	D	703	ASN
3	D	709	HIS
3	D	717	GLN
3	D	724	GLN
3	D	727	GLN
3	D	744	GLN
3	D	762	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
3	D	816	HIS
3	D	824	ASN
3	D	855	HIS
3	D	909	ASN
3	D	976	GLN
3	D	1014	ASN
3	D	1025	GLN
3	D	1033	GLN
3	D	1034	GLN
3	D	1116	ASN
3	D	1202	GLN
3	D	1323	GLN
3	D	1367	HIS
3	D	1441	GLN
3	D	1485	GLN
4	E	33	HIS
4	E	37	ASN
4	E	86	GLN
1	F	81	ASN
1	F	91	ASN
1	F	128	HIS
1	F	156	HIS
1	F	163	ASN
1	F	180	GLN
1	F	188	GLN
1	F	212	ASN
1	F	213	GLN
1	F	227	ASN
1	G	16	GLN
1	G	38	ASN
1	G	63	HIS
1	G	81	ASN
1	G	91	ASN
1	G	95	GLN
1	G	124	ASN
1	G	139	ASN
1	G	180	GLN
1	G	188	GLN
1	G	212	ASN
2	H	22	GLN
2	H	31	GLN
2	H	41	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	H	45	GLN
2	H	102	HIS
2	H	343	GLN
2	H	374	ASN
2	H	393	GLN
2	H	406	HIS
2	H	431	HIS
2	H	434	HIS
2	H	498	GLN
2	H	543	ASN
2	H	552	HIS
2	H	556	ASN
2	H	565	GLN
2	H	575	GLN
2	H	639	GLN
2	H	670	GLN
2	H	683	ASN
2	H	860	HIS
2	H	872	ASN
2	H	889	HIS
2	H	899	GLN
2	H	920	GLN
2	H	969	GLN
2	H	999	HIS
2	H	1018	GLN
2	H	1019	GLN
2	H	1030	GLN
2	H	1047	HIS
2	H	1107	ASN
3	I	151	GLN
3	I	189	GLN
3	I	463	GLN
3	I	507	ASN
3	I	549	ASN
3	I	551	ASN
3	I	560	GLN
3	I	593	ASN
3	I	616	GLN
3	I	640	HIS
3	I	703	ASN
3	I	709	HIS
3	I	717	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
3	I	724	GLN
3	I	727	GLN
3	I	737	ASN
3	I	744	GLN
3	I	748	HIS
3	I	756	GLN
3	I	762	GLN
3	I	824	ASN
3	I	906	GLN
3	I	909	ASN
3	I	917	GLN
3	I	973	GLN
3	I	1010	ASN
3	I	1014	ASN
3	I	1025	GLN
3	I	1046	GLN
3	I	1116	ASN
3	I	1323	GLN
3	I	1359	GLN
3	I	1367	HIS
3	I	1374	GLN
3	I	1393	GLN
3	I	1489	GLN
4	J	28	GLN
4	J	37	ASN
4	J	59	ASN
1	K	63	HIS
1	K	91	ASN
1	K	163	ASN
1	K	180	GLN
1	K	213	GLN
1	L	38	ASN
1	L	63	HIS
1	L	81	ASN
1	L	95	GLN
1	L	124	ASN
1	L	180	GLN
1	L	213	GLN
1	L	229	GLN
2	M	22	GLN
2	M	31	GLN
2	M	41	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	M	80	GLN
2	M	91	GLN
2	M	102	HIS
2	M	139	GLN
2	M	187	ASN
2	M	219	GLN
2	M	327	HIS
2	M	343	GLN
2	M	374	ASN
2	M	390	GLN
2	M	448	ASN
2	M	498	GLN
2	M	552	HIS
2	M	563	ASN
2	M	609	ASN
2	M	633	GLN
2	M	639	GLN
2	M	829	GLN
2	M	834	GLN
2	M	860	HIS
2	M	872	ASN
2	M	899	GLN
2	M	1026	GLN
2	M	1030	GLN
2	M	1100	GLN
2	M	1107	ASN
3	N	33	ASN
3	N	66	GLN
3	N	143	ASN
3	N	166	GLN
3	N	189	GLN
3	N	348	GLN
3	N	442	ASN
3	N	462	GLN
3	N	463	GLN
3	N	507	ASN
3	N	549	ASN
3	N	616	GLN
3	N	696	HIS
3	N	703	ASN
3	N	709	HIS
3	N	727	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
3	N	729	HIS
3	N	744	GLN
3	N	762	GLN
3	N	816	HIS
3	N	824	ASN
3	N	845	ASN
3	N	855	HIS
3	N	973	GLN
3	N	976	GLN
3	N	991	GLN
3	N	1025	GLN
3	N	1034	GLN
3	N	1116	ASN
3	N	1172	HIS
3	N	1195	GLN
3	N	1227	GLN
3	N	1353	GLN
3	N	1359	GLN
3	N	1441	GLN
4	O	28	GLN
4	O	33	HIS
4	O	59	ASN
4	O	86	GLN
7	X	17	GLN
7	X	27	GLN
7	Y	17	GLN
7	Y	27	GLN
7	Y	53	GLN
7	Z	17	GLN
7	Z	27	GLN
7	Z	34	GLN
7	Z	155	HIS

5.3.3 RNA ⓘ

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
6	Q	6/33 (18%)	0	0

There are no RNA backbone outliers to report.

There are no RNA pucker outliers to report.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 6 ligands modelled in this entry, 6 are monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Fit of model and data ⓘ

6.1 Protein, DNA and RNA chains ⓘ

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	A	223/315 (70%)	0.22	2 (0%) 81 65	81, 153, 225, 265	0
1	B	223/315 (70%)	0.18	4 (1%) 67 51	97, 154, 223, 265	0
1	F	222/315 (70%)	-0.03	0 100 100	84, 150, 216, 265	0
1	G	223/315 (70%)	0.12	2 (0%) 81 65	85, 150, 216, 248	0
1	K	222/315 (70%)	0.06	1 (0%) 87 74	110, 167, 229, 262	0
1	L	223/315 (70%)	0.10	3 (1%) 75 58	103, 164, 222, 265	0
2	C	1106/1119 (98%)	0.22	32 (2%) 53 40	70, 158, 243, 265	0
2	H	1103/1119 (98%)	0.30	35 (3%) 50 38	73, 155, 251, 267	0
2	M	1105/1119 (98%)	0.26	32 (2%) 53 40	79, 166, 255, 265	0
3	D	1349/1524 (88%)	0.21	24 (1%) 67 51	74, 171, 259, 267	0
3	I	1289/1524 (84%)	0.21	26 (2%) 65 49	70, 173, 259, 267	0
3	N	1351/1524 (88%)	0.23	29 (2%) 63 48	76, 167, 254, 267	0
4	E	93/99 (93%)	0.15	0 100 100	114, 183, 262, 265	0
4	J	92/99 (92%)	0.08	0 100 100	92, 176, 254, 265	0
4	O	93/99 (93%)	0.07	0 100 100	99, 173, 246, 265	0
5	P	6/27 (22%)	1.19	0 100 100	198, 198, 198, 198	0
6	Q	7/33 (21%)	0.86	0 100 100	188, 198, 198, 198	0
7	X	152/156 (97%)	0.06	1 (0%) 84 69	105, 187, 241, 267	0
7	Y	152/156 (97%)	0.14	1 (0%) 84 69	99, 186, 246, 267	0
7	Z	152/156 (97%)	0.09	0 100 100	109, 171, 248, 267	0
All	All	9386/10644 (88%)	0.21	192 (2%) 65 49	70, 166, 252, 267	0

All (192) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	H	271	GLU	5.7
2	H	1091	GLU	4.6
2	M	1084	SER	4.5
2	C	271	GLU	4.4
2	C	269	LEU	4.3
3	N	211	VAL	4.1
2	C	270	GLY	4.1
2	C	268	ASP	3.8
3	I	1292	VAL	3.7
3	N	1441	GLN	3.7
2	C	519	GLY	3.7
7	X	44	ASP	3.6
2	C	1097	LEU	3.6
3	N	1292	VAL	3.6
3	D	191	LEU	3.5
2	H	47	ALA	3.5
2	H	301	GLU	3.4
3	D	1174	LEU	3.4
3	D	128	TYR	3.4
2	M	1100	GLN	3.4
3	D	1346	ARG	3.3
3	I	1100	ASP	3.3
2	C	1099	VAL	3.3
3	I	1027	GLY	3.3
2	H	1017	THR	3.2
3	D	801	GLY	3.2
2	H	451	LEU	3.2
2	H	452	ILE	3.2
3	D	705	ALA	3.2
2	M	516	ARG	3.2
3	I	607	LEU	3.1
2	H	778	PHE	3.1
3	D	1094	LEU	3.1
3	N	191	LEU	3.1
2	C	516	ARG	3.1
2	H	269	LEU	3.0
2	H	115	LEU	3.0
2	M	632	ASN	3.0
2	M	1004	LYS	3.0
2	C	852	ILE	2.9
2	M	100	LEU	2.9
3	I	636	GLN	2.9
3	I	124	GLU	2.9

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
3	D	744	GLN	2.9
3	N	407	VAL	2.9
3	D	1328	GLY	2.9
2	C	275	TYR	2.8
2	C	28	ARG	2.8
2	M	180	GLY	2.8
2	H	222	MET	2.8
2	M	222	MET	2.8
2	C	563	ASN	2.8
2	C	680	ASP	2.8
3	N	1429	LEU	2.8
2	H	450	GLY	2.8
2	C	1112	PHE	2.8
3	I	16	GLU	2.7
3	D	834	THR	2.7
3	N	1338	ALA	2.7
2	C	1080	SER	2.7
2	C	1101	THR	2.7
2	H	137	VAL	2.7
3	N	1063	GLU	2.7
2	H	367	LEU	2.7
2	C	436	GLY	2.7
3	N	1487	VAL	2.7
2	H	779	GLY	2.7
3	D	1398	TRP	2.7
3	I	461	ILE	2.7
2	M	591	SER	2.7
2	M	1097	LEU	2.6
3	D	1077	ALA	2.6
1	B	163	ASN	2.6
2	M	282	GLY	2.6
2	C	1003	ASP	2.6
2	H	270	GLY	2.6
2	M	269	LEU	2.6
2	M	64	LEU	2.6
3	I	1398	TRP	2.6
3	D	436	GLU	2.6
3	N	1294	VAL	2.6
2	M	214	TYR	2.6
3	N	347	VAL	2.5
2	H	680	ASP	2.5
2	C	776	SER	2.5

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
3	I	182	GLY	2.5
3	N	1398	TRP	2.5
2	M	221	LEU	2.5
3	D	720	LEU	2.5
2	H	777	ILE	2.5
2	M	144	PRO	2.5
2	M	752	GLY	2.5
3	I	1468	LEU	2.4
2	M	131	GLY	2.4
2	H	690	ILE	2.4
2	M	99	GLN	2.4
2	H	409	ARG	2.4
2	M	1088	LEU	2.4
3	N	170	PRO	2.4
3	I	1030	GLY	2.4
2	C	445	GLU	2.4
3	N	197	SER	2.4
1	G	24	VAL	2.4
2	C	1091	GLU	2.4
2	H	710	ILE	2.4
2	H	516	ARG	2.4
3	D	1305	LEU	2.4
2	M	338	GLU	2.3
2	H	308	ARG	2.3
3	I	1324	PRO	2.3
3	I	103	TRP	2.3
3	D	470	LEU	2.3
3	I	1421	LEU	2.3
1	A	177	VAL	2.3
1	B	36	LEU	2.3
3	D	1096	ARG	2.3
3	I	191	LEU	2.3
2	C	706	GLU	2.3
2	M	785	VAL	2.3
3	N	8	VAL	2.3
1	A	175	ARG	2.3
3	D	173	PRO	2.3
2	C	1021	LEU	2.3
2	C	201	GLY	2.2
3	I	896	ALA	2.2
2	M	268	ASP	2.2
3	I	36	THR	2.2

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
3	I	1196	THR	2.2
3	D	8	VAL	2.2
3	I	1103	HIS	2.2
1	L	60	ASP	2.2
1	L	188	GLN	2.2
2	H	268	ASP	2.2
2	H	279	GLU	2.2
3	I	618	LEU	2.2
2	H	465	GLY	2.2
2	M	1087	VAL	2.2
2	C	1079	PRO	2.2
3	N	209	ARG	2.2
3	N	966	GLU	2.2
2	H	186	VAL	2.2
3	I	97	THR	2.2
3	I	204	LEU	2.2
2	H	359	MET	2.2
3	D	1469	GLY	2.2
2	H	333	ILE	2.2
3	N	1421	LEU	2.2
2	M	1110	ASP	2.1
1	B	65	PHE	2.1
2	H	214	TYR	2.1
2	M	275	TYR	2.1
3	N	1055	VAL	2.1
2	M	333	ILE	2.1
1	K	195	LEU	2.1
3	N	1456	LYS	2.1
7	Y	44	ASP	2.1
3	D	108	VAL	2.1
2	M	1099	VAL	2.1
2	C	500	ASN	2.1
3	N	991	GLN	2.1
2	H	1083	GLU	2.1
2	H	248	PRO	2.1
2	C	396	ASP	2.1
2	C	606	VAL	2.1
3	N	7	LYS	2.1
1	L	122	ILE	2.1
3	I	666	ILE	2.1
3	D	721	VAL	2.1
2	M	263	ASP	2.1

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
2	M	680	ASP	2.1
3	D	205	TYR	2.1
3	I	1303	TYR	2.1
3	N	128	TYR	2.1
3	D	77	GLY	2.1
3	N	4	GLU	2.1
2	H	756	VAL	2.1
3	I	1456	LYS	2.0
2	C	214	TYR	2.0
2	C	1006	HIS	2.0
2	H	51	THR	2.0
3	N	808	THR	2.0
2	H	765	SER	2.0
2	C	1070	ILE	2.0
3	N	1053	PHE	2.0
1	B	168	ASP	2.0
1	G	135	GLY	2.0
2	C	1043	TYR	2.0
2	M	1096	ALA	2.0
3	N	1319	VAL	2.0
2	M	72	ARG	2.0
3	N	481	MET	2.0
3	N	899	LEU	2.0

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

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

6.3 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

6.4 Ligands [i](#)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
-----	------	-------	-----	-------	------	-----	-----------------------------	-------

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
9	MG	N	2006	1/1	0.56	0.23	94,94,94,94	0
9	MG	I	2005	1/1	0.75	0.18	94,94,94,94	0
8	ZN	D	2001	1/1	0.98	0.04	94,94,94,94	0
9	MG	D	2004	1/1	0.99	0.06	94,94,94,94	0
8	ZN	I	2002	1/1	0.99	0.02	94,94,94,94	0
8	ZN	N	2003	1/1	0.99	0.05	94,94,94,94	0

6.5 Other polymers [i](#)

There are no such residues in this entry.