



Full wwPDB EM Validation Report ⓘ

Aug 5, 2026 – 02:44 AM JST

PDB ID : 3JBT / pdb_00003jbt
EMDB ID : EMD-6480
Title : Atomic structure of the Apaf-1 apoptosome
Authors : Zhou, M.; Li, Y.; Hu, Q.; Bai, X.; Huang, W.; Yan, C.; Scheres, S.H.W.; Shi, Y.
Deposited on : 2015-10-15
Resolution : 3.80 Å (reported)
Based on initial models : 4RSZ, 3J2T

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

The types of validation reports are described at

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

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

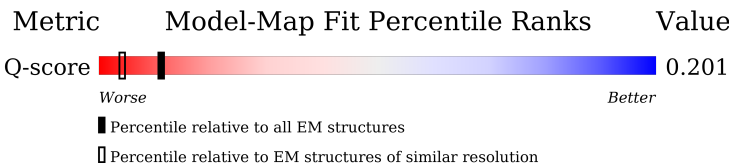
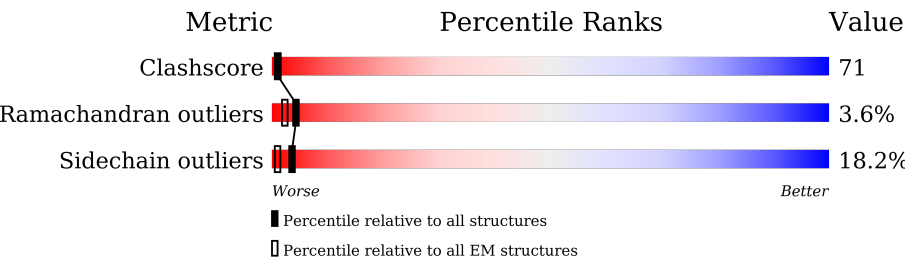
EMDB validation analysis : 0.0.1.dev133
Mogul : 1.8.5 (274361), CSD as541be (2020)
MolProbity : 4-5-2 with Phenix2.0
Buster-report : wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.50

1 Overall quality at a glance ⓘ

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

The reported resolution of this entry is 3.80 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	10198 (3.30 - 4.30)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$. The upper red bar (where present) indicates the fraction of residues that have poor fit to the EM map (all-atom inclusion $< 40\%$). The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	A	1260	50% 31% 44% 15% • 9%
1	C	1260	50% 31% 44% 15% • 9%
1	E	1260	50% 31% 44% 15% • 9%
1	G	1260	50% 31% 44% 15% • 9%
1	I	1260	50% 31% 43% 15% • 9%

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
1	K	1260	50% 31% 43% 15% 9%
1	M	1260	50% 31% 44% 15% 9%
2	B	105	94% 83% 13%
2	D	105	94% 83% 13%
2	F	105	94% 83% 13%
2	H	105	95% 83% 13%
2	J	105	94% 83% 13%
2	L	105	94% 83% 13%
2	N	105	94% 83% 14%

2 Entry composition

There are 5 unique types of molecules in this entry. The entry contains 70252 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called Apoptotic protease-activating factor 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	1144	Total	C	N	O	S	0	0
			9139	5789	1569	1720	61		
1	C	1144	Total	C	N	O	S	0	0
			9139	5789	1569	1720	61		
1	E	1144	Total	C	N	O	S	0	0
			9139	5789	1569	1720	61		
1	G	1144	Total	C	N	O	S	0	0
			9139	5789	1569	1720	61		
1	I	1144	Total	C	N	O	S	0	0
			9139	5789	1569	1720	61		
1	K	1144	Total	C	N	O	S	0	0
			9139	5789	1569	1720	61		
1	M	1144	Total	C	N	O	S	0	0
			9139	5789	1569	1720	61		

There are 84 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	1249	LEU	-	expression tag	UNP O14727
A	1250	GLU	-	expression tag	UNP O14727
A	1251	HIS	-	expression tag	UNP O14727
A	1252	HIS	-	expression tag	UNP O14727
A	1253	HIS	-	expression tag	UNP O14727
A	1254	HIS	-	expression tag	UNP O14727
A	1255	HIS	-	expression tag	UNP O14727
A	1256	HIS	-	expression tag	UNP O14727
A	1257	HIS	-	expression tag	UNP O14727
A	1258	HIS	-	expression tag	UNP O14727
A	1259	HIS	-	expression tag	UNP O14727
A	1260	HIS	-	expression tag	UNP O14727
C	1249	LEU	-	expression tag	UNP O14727
C	1250	GLU	-	expression tag	UNP O14727
C	1251	HIS	-	expression tag	UNP O14727
C	1252	HIS	-	expression tag	UNP O14727

Continued on next page...

Continued from previous page...

Chain	Residue	Modelled	Actual	Comment	Reference
C	1253	HIS	-	expression tag	UNP O14727
C	1254	HIS	-	expression tag	UNP O14727
C	1255	HIS	-	expression tag	UNP O14727
C	1256	HIS	-	expression tag	UNP O14727
C	1257	HIS	-	expression tag	UNP O14727
C	1258	HIS	-	expression tag	UNP O14727
C	1259	HIS	-	expression tag	UNP O14727
C	1260	HIS	-	expression tag	UNP O14727
E	1249	LEU	-	expression tag	UNP O14727
E	1250	GLU	-	expression tag	UNP O14727
E	1251	HIS	-	expression tag	UNP O14727
E	1252	HIS	-	expression tag	UNP O14727
E	1253	HIS	-	expression tag	UNP O14727
E	1254	HIS	-	expression tag	UNP O14727
E	1255	HIS	-	expression tag	UNP O14727
E	1256	HIS	-	expression tag	UNP O14727
E	1257	HIS	-	expression tag	UNP O14727
E	1258	HIS	-	expression tag	UNP O14727
E	1259	HIS	-	expression tag	UNP O14727
E	1260	HIS	-	expression tag	UNP O14727
G	1249	LEU	-	expression tag	UNP O14727
G	1250	GLU	-	expression tag	UNP O14727
G	1251	HIS	-	expression tag	UNP O14727
G	1252	HIS	-	expression tag	UNP O14727
G	1253	HIS	-	expression tag	UNP O14727
G	1254	HIS	-	expression tag	UNP O14727
G	1255	HIS	-	expression tag	UNP O14727
G	1256	HIS	-	expression tag	UNP O14727
G	1257	HIS	-	expression tag	UNP O14727
G	1258	HIS	-	expression tag	UNP O14727
G	1259	HIS	-	expression tag	UNP O14727
G	1260	HIS	-	expression tag	UNP O14727
I	1249	LEU	-	expression tag	UNP O14727
I	1250	GLU	-	expression tag	UNP O14727
I	1251	HIS	-	expression tag	UNP O14727
I	1252	HIS	-	expression tag	UNP O14727
I	1253	HIS	-	expression tag	UNP O14727
I	1254	HIS	-	expression tag	UNP O14727
I	1255	HIS	-	expression tag	UNP O14727
I	1256	HIS	-	expression tag	UNP O14727
I	1257	HIS	-	expression tag	UNP O14727
I	1258	HIS	-	expression tag	UNP O14727

Continued on next page...

Continued from previous page...

Chain	Residue	Modelled	Actual	Comment	Reference
I	1259	HIS	-	expression tag	UNP O14727
I	1260	HIS	-	expression tag	UNP O14727
K	1249	LEU	-	expression tag	UNP O14727
K	1250	GLU	-	expression tag	UNP O14727
K	1251	HIS	-	expression tag	UNP O14727
K	1252	HIS	-	expression tag	UNP O14727
K	1253	HIS	-	expression tag	UNP O14727
K	1254	HIS	-	expression tag	UNP O14727
K	1255	HIS	-	expression tag	UNP O14727
K	1256	HIS	-	expression tag	UNP O14727
K	1257	HIS	-	expression tag	UNP O14727
K	1258	HIS	-	expression tag	UNP O14727
K	1259	HIS	-	expression tag	UNP O14727
K	1260	HIS	-	expression tag	UNP O14727
M	1249	LEU	-	expression tag	UNP O14727
M	1250	GLU	-	expression tag	UNP O14727
M	1251	HIS	-	expression tag	UNP O14727
M	1252	HIS	-	expression tag	UNP O14727
M	1253	HIS	-	expression tag	UNP O14727
M	1254	HIS	-	expression tag	UNP O14727
M	1255	HIS	-	expression tag	UNP O14727
M	1256	HIS	-	expression tag	UNP O14727
M	1257	HIS	-	expression tag	UNP O14727
M	1258	HIS	-	expression tag	UNP O14727
M	1259	HIS	-	expression tag	UNP O14727
M	1260	HIS	-	expression tag	UNP O14727

- Molecule 2 is a protein called Cytochrome c.

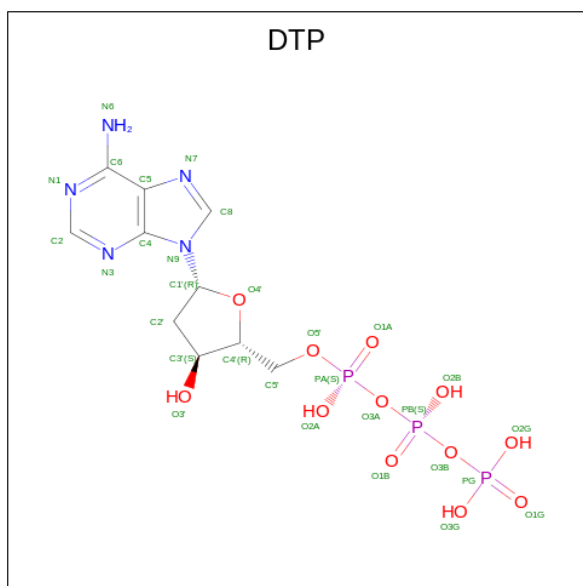
Mol	Chain	Residues	Atoms					AltConf	Trace
2	B	104	Total 823	C 524	N 144	O 151	S 4	0	0
2	D	104	Total 823	C 524	N 144	O 151	S 4	0	0
2	F	104	Total 823	C 524	N 144	O 151	S 4	0	0
2	H	104	Total 823	C 524	N 144	O 151	S 4	0	0
2	J	104	Total 823	C 524	N 144	O 151	S 4	0	0
2	L	104	Total 823	C 524	N 144	O 151	S 4	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms					AltConf	Trace
2	N	104	Total	C	N	O	S	0	0
			823	524	144	151	4		

- Molecule 3 is 2'-DEOXYADENOSINE 5'-TRIPHOSPHATE (CCD ID: DTP) (formula: $C_{10}H_{16}N_5O_{12}P_3$)



Mol	Chain	Residues	Atoms					AltConf
3	A	1	Total	C	N	O	P	0
			30	10	5	12	3	
3	C	1	Total	C	N	O	P	0
			30	10	5	12	3	
3	E	1	Total	C	N	O	P	0
			30	10	5	12	3	
3	G	1	Total	C	N	O	P	0
			30	10	5	12	3	
3	I	1	Total	C	N	O	P	0
			30	10	5	12	3	
3	K	1	Total	C	N	O	P	0
			30	10	5	12	3	
3	M	1	Total	C	N	O	P	0
			30	10	5	12	3	

- Molecule 4 is MAGNESIUM ION (CCD ID: MG) (formula: Mg).

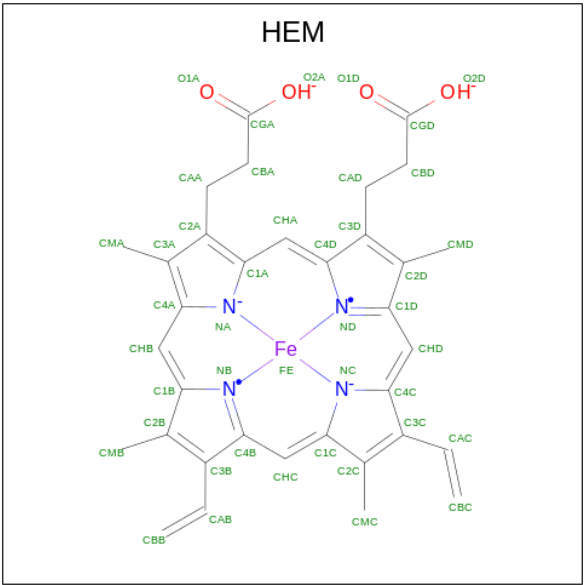
Mol	Chain	Residues	Atoms		AltConf
4	A	1	Total	Mg	0
			1	1	

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms		AltConf
4	C	1	Total	Mg	0
			1	1	
4	E	1	Total	Mg	0
			1	1	
4	G	1	Total	Mg	0
			1	1	
4	I	1	Total	Mg	0
			1	1	
4	K	1	Total	Mg	0
			1	1	
4	M	1	Total	Mg	0
			1	1	

- Molecule 5 is PROTOPORPHYRIN IX CONTAINING FE (CCD ID: HEM) (formula: C₃₄H₃₂FeN₄O₄).



Mol	Chain	Residues	Atoms					AltConf
5	B	1	Total	C	Fe	N	O	0
			43	34	1	4	4	
5	D	1	Total	C	Fe	N	O	0
			43	34	1	4	4	
5	F	1	Total	C	Fe	N	O	0
			43	34	1	4	4	
5	H	1	Total	C	Fe	N	O	0
			43	34	1	4	4	
5	J	1	Total	C	Fe	N	O	0
			43	34	1	4	4	

Continued on next page...

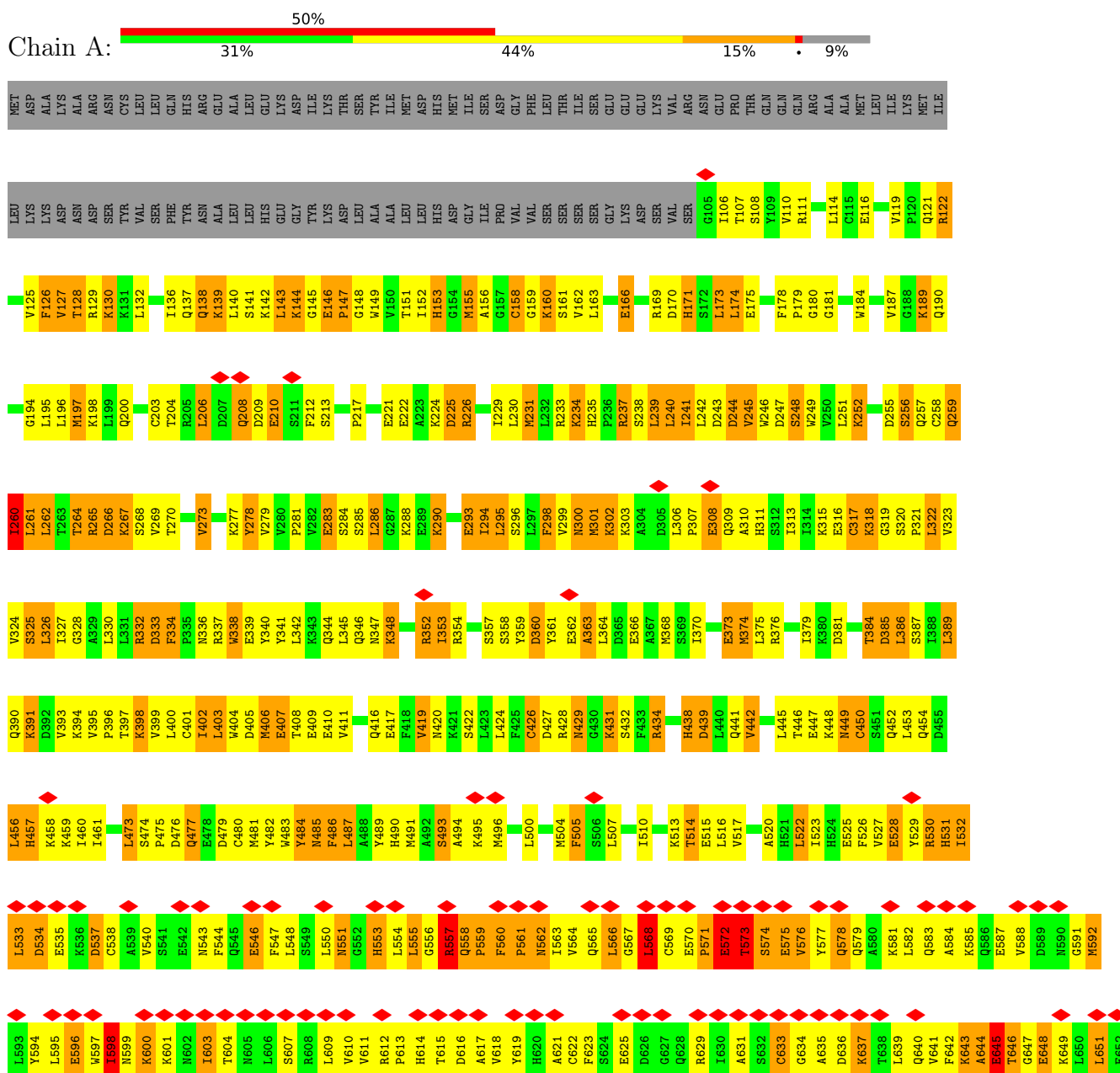
Continued from previous page...

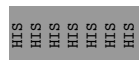
Mol	Chain	Residues	Atoms					AltConf
5	L	1	Total	C	Fe	N	O	0
			43	34	1	4	4	
5	N	1	Total	C	Fe	N	O	0
			43	34	1	4	4	

3 Residue-property plots

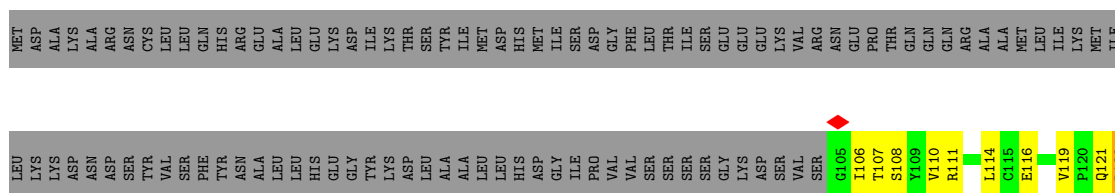
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion in map density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red diamond above a residue indicates a poor fit to the EM map for this residue (all-atom inclusion < 40%). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

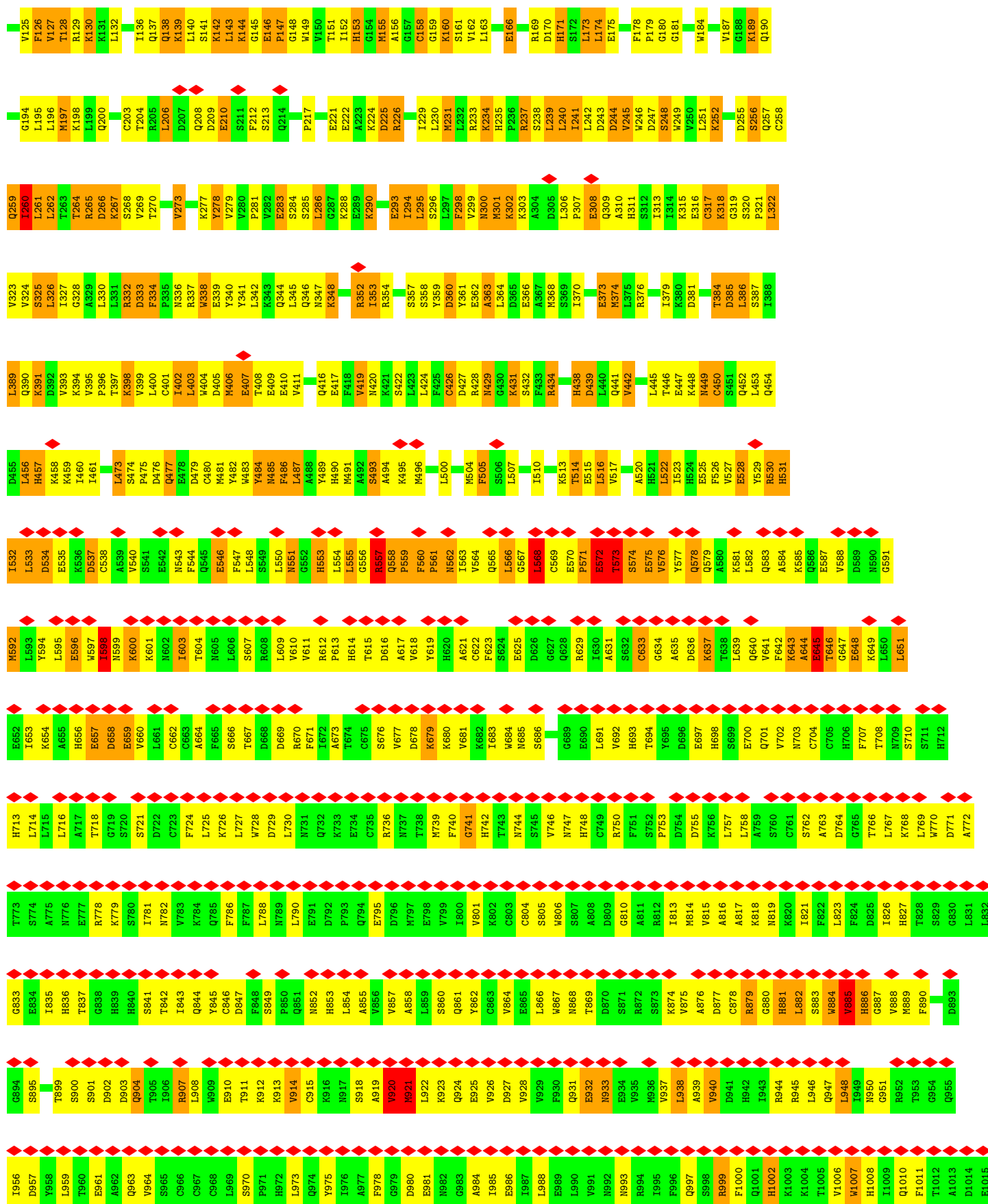
- Molecule 1: Apoptotic protease-activating factor 1



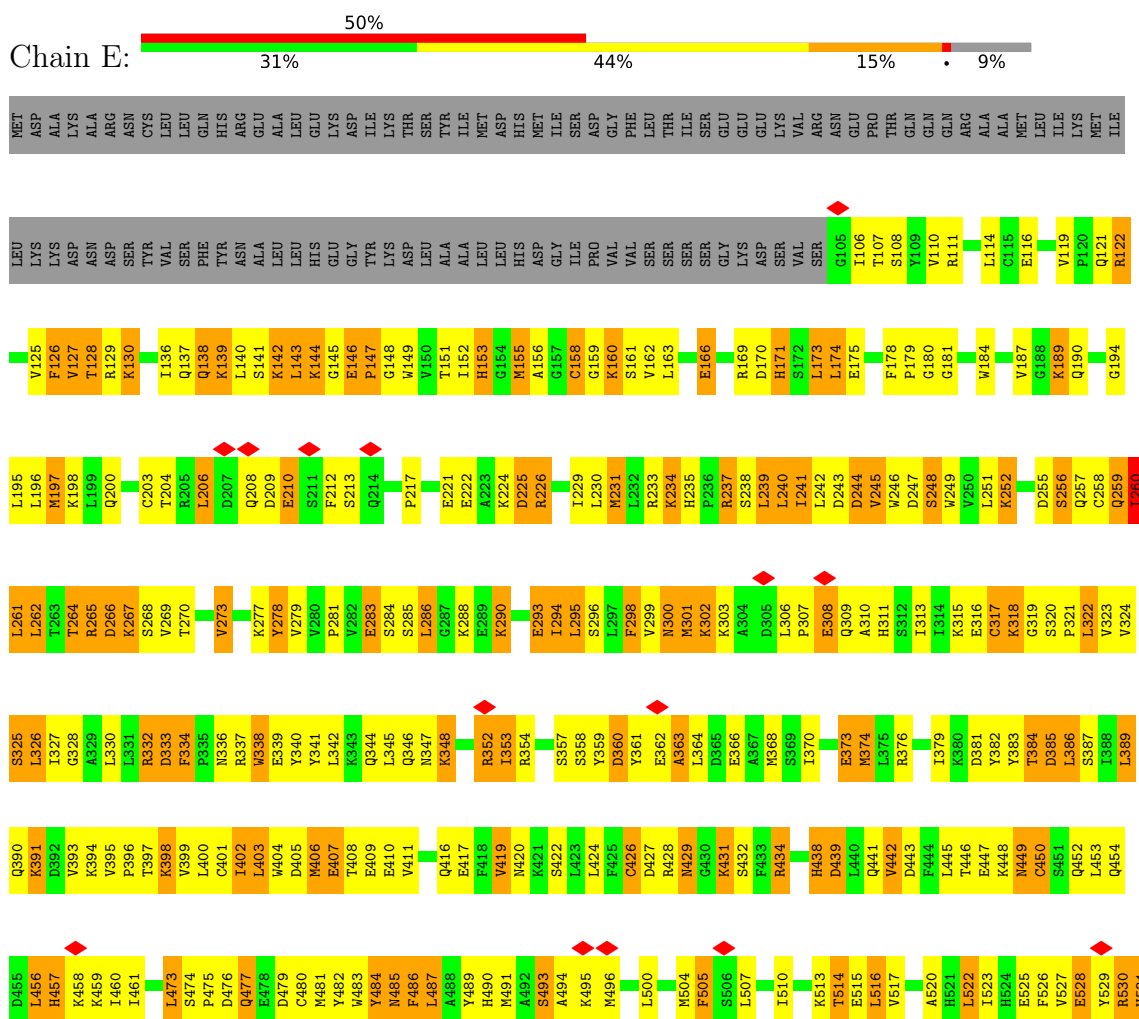


Chain C: 50% 31% 44% 15% 9%





- Molecule 1: Apoptotic protease-activating factor 1

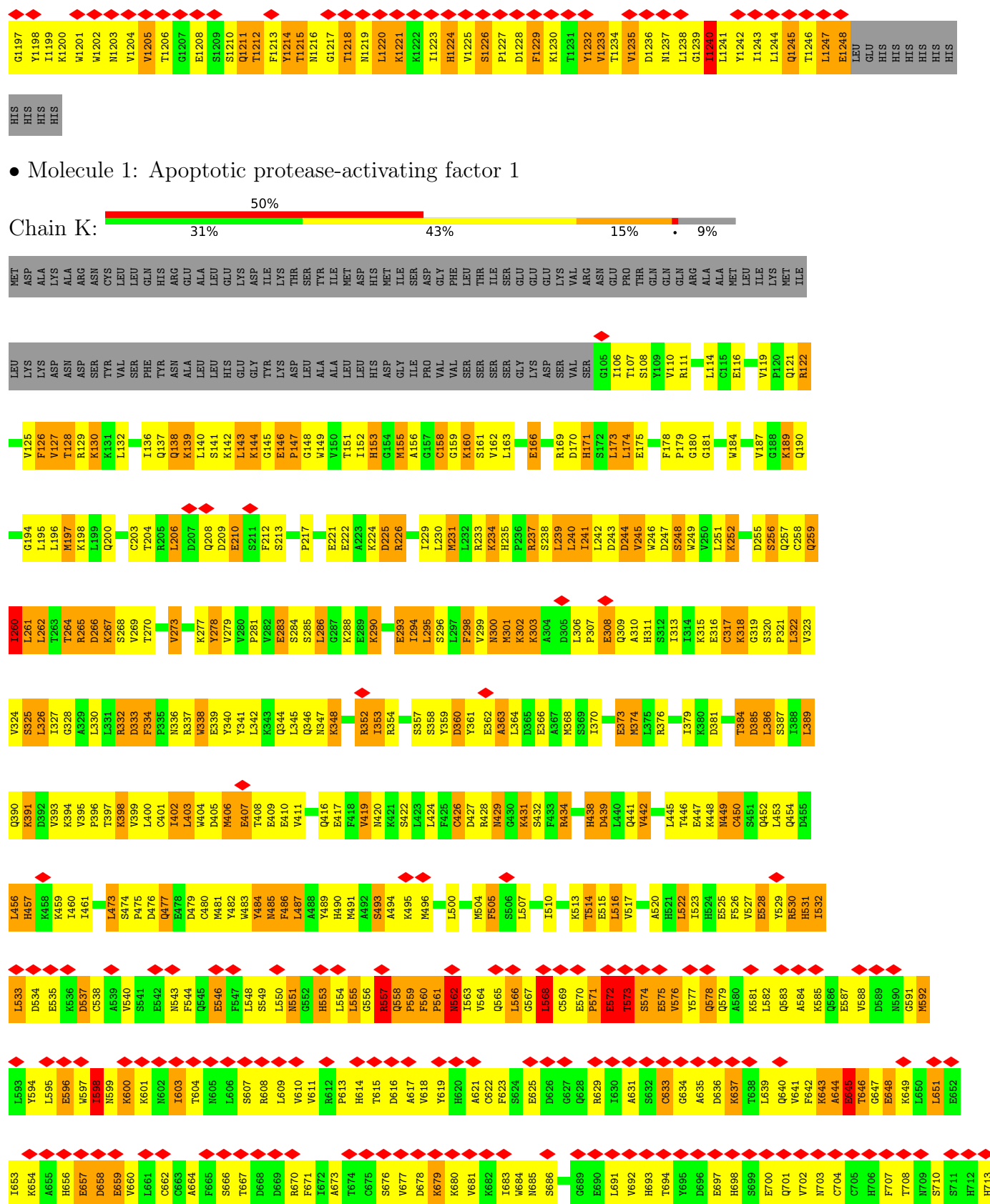


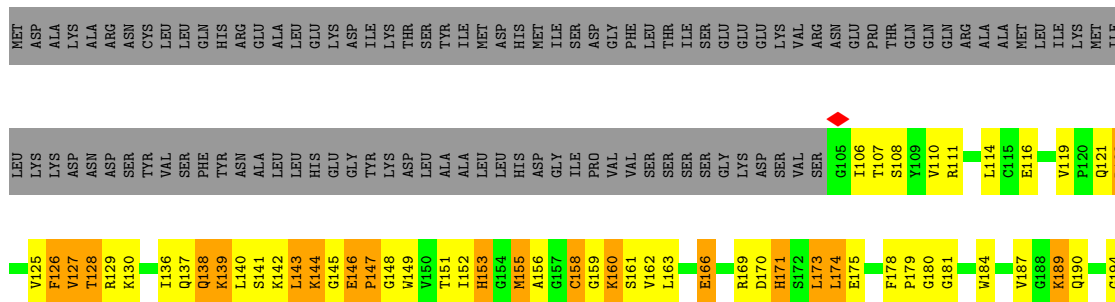
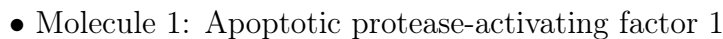


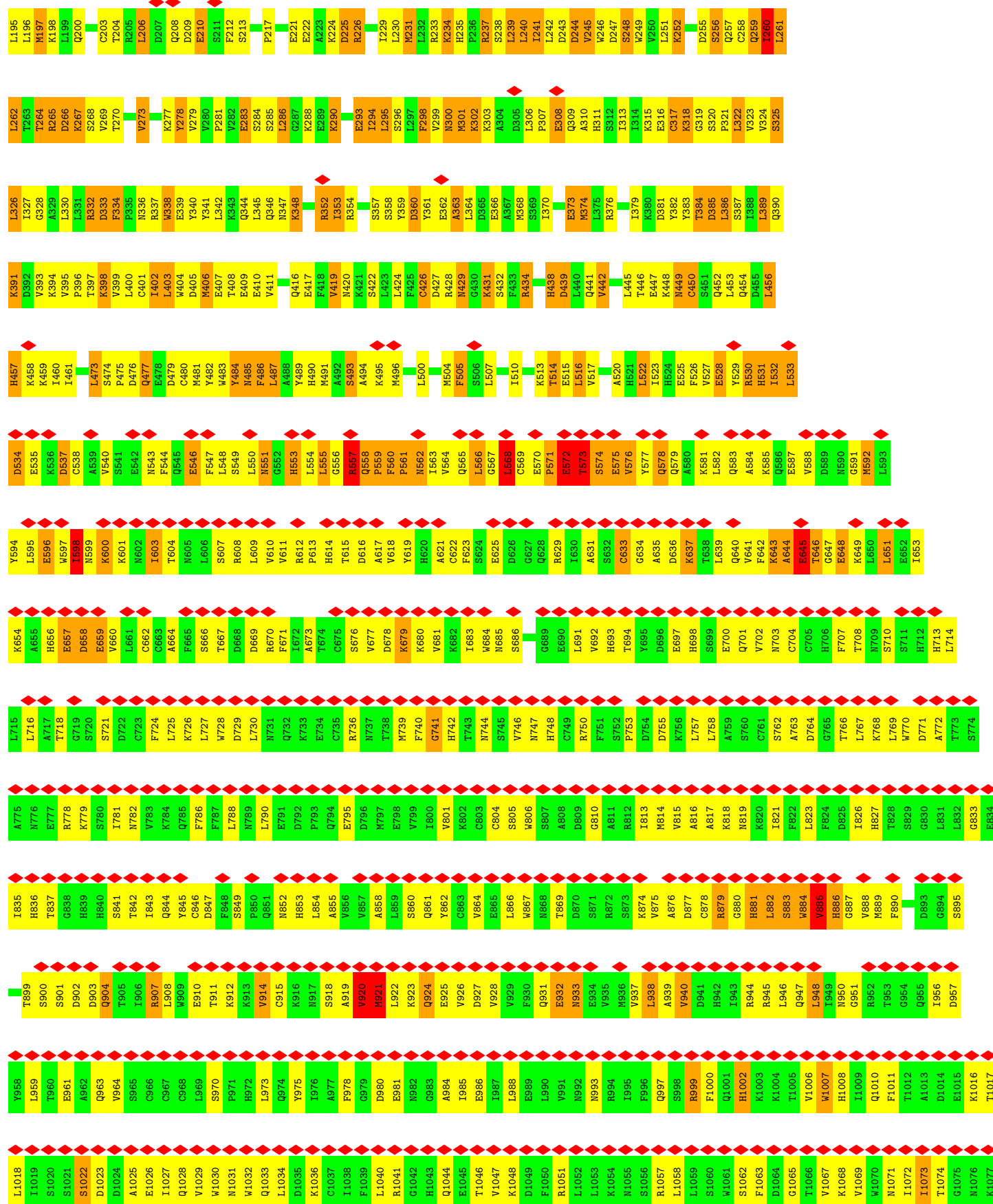
MET	ASP	ALA	LYS	ALA	LYS	ARG	ASN	CYS	LEU	LEU	GLN	HIS	ARG	GLU	ALA	LEU	LEU	GLY	ASP	ASP	GLY	VAL	ARG	ASN	GLU	PRO	THR	GLN	GLN	ARG	ALA	ALA	LEU	ILE	LYS	MET	ILE																						
LEU	LYS	LYS	ASP	ASN	ASN	ASP	SER	TYR	VAL	SER	PHE	TYR	ASN	ALA	LEU	LEU	HIS	GLY	ASP	ILE	PRO	VAL	SER	ASN	G105	I106	T107	S108	Y109	R110	R111	C114	C115	E116	V119	G188	P120	Q121	R122																				
G194	L126	L196	M197	K198	L199	Q200	C203	T204	R205	L206	D207	Q208	D209	E210	L143	G144	S211	G145	E146	P147	G148	V149	V150	T151	I152	H153	G154	M155	A156	G157	C158	G159	K160	S161	V162	L163	E166	R169	D170	H171	S172	L173	L174	E175	F178	P179	G180	G181	C184	E184	V187	G188	K189	Q190	C258				
Q259	L260	L261	L262	T263	T264	R265	D266	K267	S268	V269	T270	V273	K277	Y278	V279	V280	P281	Y282	E283	S284	S285	L286	G287	K288	K289	E293	L294	L295	S296	L297	F298	V299	N300	K301	K302	K303	A304	D305	L306	P307	E308	Q309	A310	H311	S312	I313	I314	K315	E316	C317	K318	G319	S320	P321	L322				
V323	V324	S325	L326	L327	G328	A329	L330	L331	R332	D333	F334	P335	N336	R337	V338	E339	Y340	Y341	L342	K343	Q344	L345	Q346	N347	K348	R352	L353	R354	S357	S358	Y359	D360	Y361	A362	R428	N429	Q430	K431	E366	A367	F433	R434	R438	D439	L440	Q441	V442	L445	T446	E447	D448	K449	F526	V527	K581	E528	Q452	L453	
Q454	D455	L456	H457	K458	K459	L460	L461	L473	D476	Q477	D479	C480	M481	Y482	W483	Y484	N485	F486	L487	V411	Q416	F417	F418	W419	N420	S422	L423	F425	C426	D427	R428	N429	Q430	K431	E366	A367	F433	R434	R438	D439	L440	Q441	V442	L445	T446	E447	D448	K449	F526	V527	K581	E528	Q452	L453					
L532	L533	D534	E535	K536	D537	C538	A539	V540	S541	E542	N543	F544	Q545	E546	F547	L548	W549	L550	N551	G552	H553	L554	L555	G556	R557	Q558	P559	F560	P561	N562	L563	V564	F565	L566	G567	L568	C569	E570	P571	E572	L573	S574	E575	V576	Y577	Q578	Q579	A580	K581	L582	Q583	A584	K585	Q586	E587	V588	D589	N590	G591
M592	L593	Y594	L595	E596	W597	N598	M599	K600	K601	H602	F603	T604	N605	L606	S607	H608	L609	V610	V611	R612	A673	H614	T615	D616	A617	V618	V619	H620	A621	C622	F623	S624	E625	D626	G627	Q628	R629	L691	V692	H693	S632	C633	G634	A635	D636	K637	T638	L639	Q640	F642	K643	A644	S645	T646	G647	E648	K649	L650	L651
E652	I653	K654	A655	H656	E657	D658	E659	V660	L661	C662	G663	A664	F665	S666	T667	D668	D669	R670	F671	I672	T674	G675	S676	V677	D678	K679	K680	V681	K682	F683	W684	N685	S686	G689	E690	H691	V692	H693	S632	C633	G634	A635	D636	K637	T638	L639	Q640	F642	K643	A644	S645	T646	G647	E648	K649	L650	L651		
H713	L714	L715	L716	L717	T718	S719	S720	S721	D722	C723	F724	L725	K726	L727	W728	D729	L730	W731	K732	K733	E734	C735	R736	W737	T738	W739	F740	G741	H742	T743	N744	S745	V746	W747	H748	C749	R750	F751	S752	P753	D754	W755	K756	L757	L758	A759	S760	C761	S762	A763	D764	G765	T766	L767	K768	L769	W770	D771	A772
T773	S774	A775	N776	E777	R778	K779	S780	L781	N782	V783	K784	Y785	Q786	F787	L788	N789	L790	E791	D792	P793	L794	E795	D796	W797	L798	W799	S800	Q801	K802	C803	C804	S805	W806	S807	A808	T809	G810	A811	R812	M814	W815	A816	D877	C878	R879	G880	H881	L882	S883	W884	F885	H886	G887	V888	M889	F890	D893		

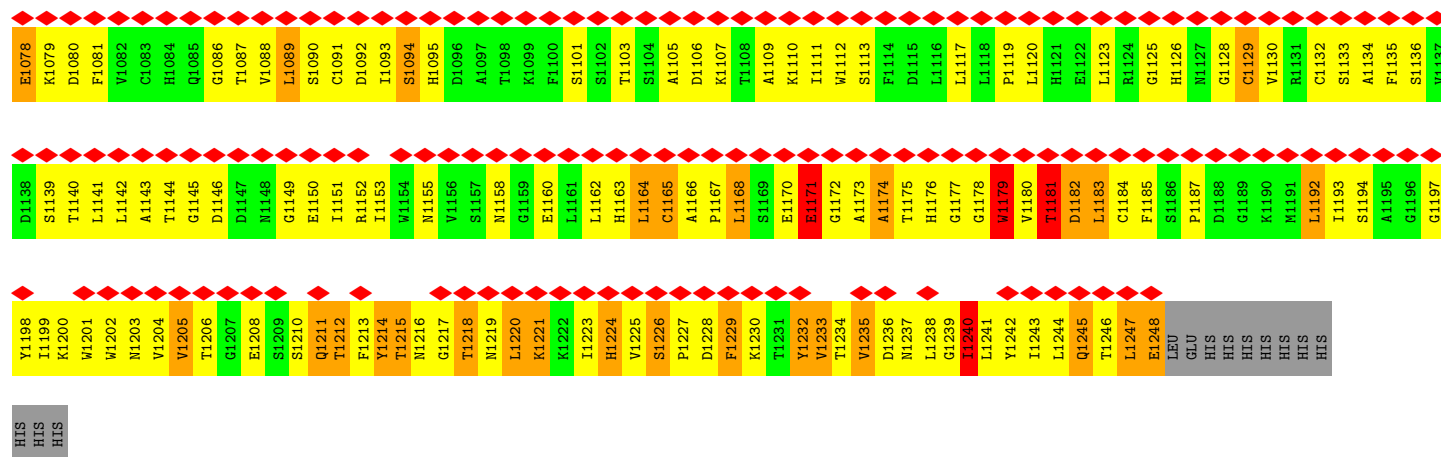


V1137	K1077	T1017	D957	F897	T837	E777	A717	H656	E596	K636	K391
D1138	E1078	L1018	Y958	T899	G839	R778	T718	E657	Y597	D537	D392
S1139	K1079	I1019	L959	T899	H839	K779	G719	D658	I599	K459	V393
T1140	D1080	S1020	T960	S901	H840	S780	S720	E659	K600	A539	K394
L1141	F1081	S1021	E961	D902	S841	I781	S721	V660	T599	V540	V395
L1142	V1082	S1022	A962	D903	T842	N782	D722	L661	R601	L473	T397
A1143	C1083	D1023	Q963	D903	T842	N782	G723	C662	I602	D476	K398
T1144	H1084	D1024	V964	T905	Q844	K784	F724	C663	L603	Q477	V399
G1145	Q1085	A1025	S965	I906	Y845	Q785	L725	F665	T604	E478	C401
D1146	G1086	E1026	C966	R907	C946	F786	K726	S666	I605	C480	I402
D1147	T1087	I1027	C967	L908	D847	F787	L727	T667	F544	M481	L403
M1148	V1088	Q1028	C968	W909	D847	L788	W728	D668	S607	Y482	W404
K1149	L1089	W1029	L969	E910	F848	K788	D729	D669	R608	S849	M406
E1150	S1090	W1030	S970	T911	P850	N789	L730	D689	L609	Y484	E407
C1091	I1151	W1031	P971	T911	Q851	L790	L730	R670	L609	M485	E407
R1152	D1092	W1032	H972	K912	N852	E791	Q732	F671	V610	F486	T408
I1153	I1093	Q1033	L973	K913	H853	D792	K733	A673	V611	G552	E409
W1154	S1094	L1034	Q974	V914	L854	P793	E734	T674	R612	A488	E410
H1155	H1095	D1035	Y975	C915	A855	Q794	R735	C675	L613	Y489	V411
M1156	D1096	K1036	I976	N916	V856	E795	G736	S676	H614	L554	Q416
E1157	A1097	C1037	A977	S918	V857	D796	R736	V677	L555	M491	E417
N1158	T1098	I1038	F978	A919	A858	W797	N737	D678	T615	S492	F418
G1159	K1099	F1039	G979	V920	L859	E798	T738	K679	D616	S493	V419
E1160	F1100	L1040	D980	N921	S860	W799	W739	K680	V618	K495	N420
L1161	S1101	R1041	E981	L922	Q861	I800	F740	V626	H619	G567	K421
L1162	S1102	G1042	N982	K923	Y862	V801	G741	G627	H620	L500	S422
H1163	T1103	H1043	Q983	Q924	V864	K802	H742	I683	I563	L500	L423
L1164	S1104	Q1044	A984	E925	E865	C803	N743	W684	C622	M504	L424
C1165	A1105	E1045	I985	V926	L866	C804	T744	N685	F623	F505	F425
A1166	D1106	T1046	E986	D927	W867	S805	S745	S805	C622	S506	C426
P1167	K1107	V1047	I987	V928	N868	W806	V746	G689	F623	L507	D427
L1168	T1108	K1048	L988	V929	T869	S807	N747	E690	G628	I510	R428
S1169	A1109	D1049	E989	F930	D870	D809	G749	L691	R629	E570	N429
E1170	K1110	F1050	L990	Q931	S971	G810	R750	V692	I630	K513	G430
E1171	I1111	R1051	V991	E932	R872	A811	F751	H693	A631	T514	K431
G1172	W1112	L1052	N992	N933	S873	R812	P753	T694	S632	E575	R434
A1173	F1114	L1053	N993	E934	K874	I813	D754	Y695	C633	V576	H438
L1174	D1115	L1054	R994	N936	V875	M814	D755	D696	G634	H521	D439
T1175	H1115	N1055	R995	M936	A876	V815	F755	E697	A635	L522	T446
H1176	L1116	S1056	F996	V937	D877	A816	K756	H698	D636	I523	E447
G1177	L1117	R1057	Q997	L938	C878	A817	L757	S699	K637	H524	K448
L1178	L1118	L1058	S998	A939	R879	K818	L758	E700	T638	A580	N449
P1119	L1119	L1059	R999	V940	C880	K819	A759	Q701	L639	K581	C450
L1120	V1180	S1060	F1000	H941	H881	N820	S780	W702	Q640	L582	S451
H1121	I1121	W1061	Q1001	H942	L882	K820	C761	N703	V641	Q583	Q452
E1122	L1122	S1062	H1002	I943	L882	I821	S762	C704	F642	H530	L453
D1182	C1183	F1063	K1003	R944	V884	F822	A763	C705	K643	E532	Q454
C1184	R1124	D1064	K1004	R945	V885	L823	D764	W706	E845	Y529	S451
F1185	G1125	G1065	T1005	L946	H886	F824	G765	F707	G647	H525	L445
H1126	L1126	T1066	V1006	Q947	C887	D825	T766	T708	E648	F526	T446
P1187	N1127	V1067	W1007	L948	G887	I826	L767	N709	K649	V527	E447
D1188	G1128	K1068	H1008	I949	N889	H827	K768	G591	M592	E528	K448
C1129	V1130	I1009	I1009	N950	F890	T828	W769	L650	L593	Y529	C450
R1130	K1190	W1069	Q1010	G951	S891	S829	L769	L651	E587	H530	S451
M1191	L1191	W1070	W1070	R952	P892	G830	W770	E652	D589	H531	L453
L1192	C1132	N1071	F1011	T953	P992	G830	D771	I653	K654	E532	Q454
L1193	S1133	I1072	T1012	G954	G894	L831	A772	L715	L714	I532	D455
A1134	I1073	I1073	T1013	Q955	S895	G833	T773	S774	L716	L533	L456
S1194	F1135	T1074	D1014	I956	S896	E834	A775	L716	E535	D534	H457
A1195	G1196	G1075	K1015			I835					
L1196	S1136	N1076	E1015			H836					

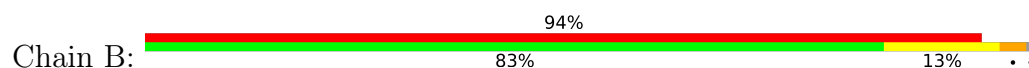




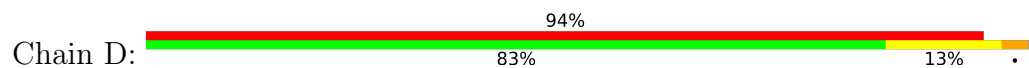




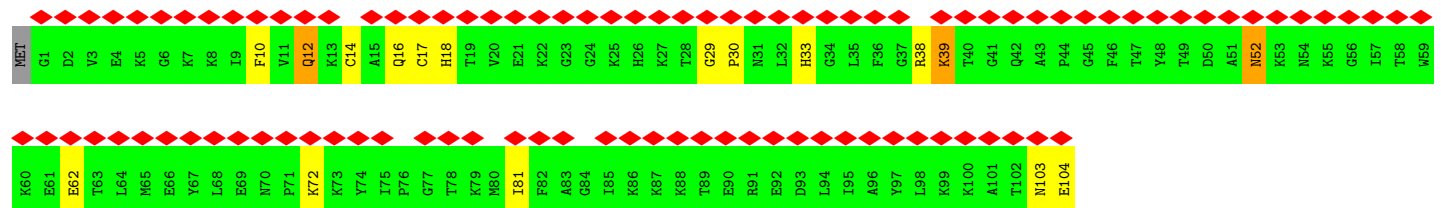
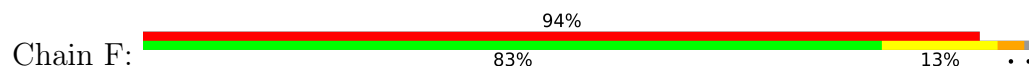
• Molecule 2: Cytochrome c



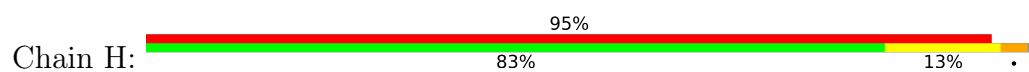
• Molecule 2: Cytochrome c



• Molecule 2: Cytochrome c

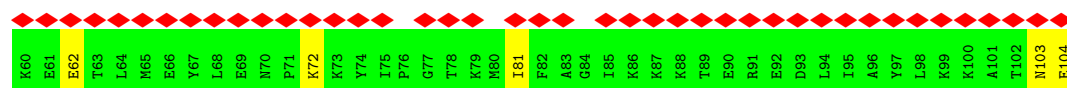
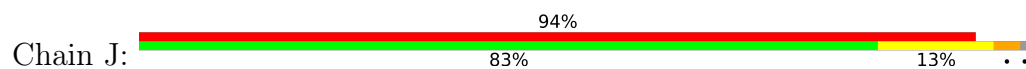


• Molecule 2: Cytochrome c

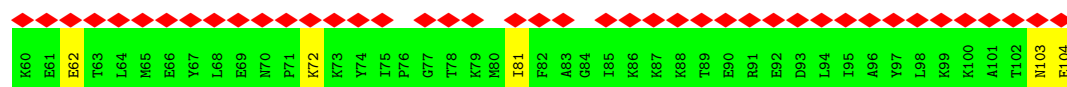
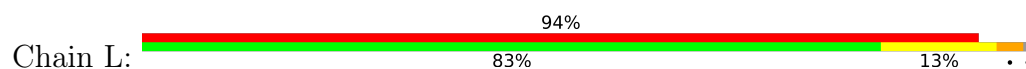




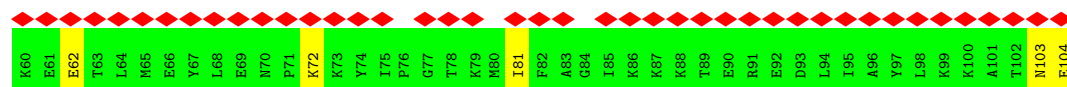
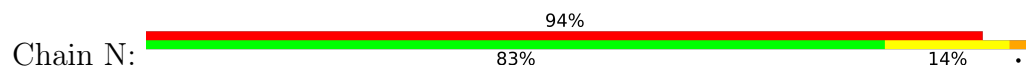
• Molecule 2: Cytochrome c



• Molecule 2: Cytochrome c



• Molecule 2: Cytochrome c



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C7	Depositor
Number of particles used	134919	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	Not provided	
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	40	Depositor
Minimum defocus (nm)	1400	Depositor
Maximum defocus (nm)	3000	Depositor
Magnification	Not provided	
Image detector	GATAN K2 (4k x 4k)	Depositor
Maximum map value	0.351	Depositor
Minimum map value	-0.239	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.008	Depositor
Recommended contour level	0.04	Depositor
Map size ($\text{\AA}$)	422.40002, 422.40002, 422.40002	wwPDB
Map dimensions	320, 320, 320	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing ($\text{\AA}$)	1.32, 1.32, 1.32	Depositor

5 Model quality

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: DTP, HEM, 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	0.43	0/9337	0.88	30/12636 (0.2%)
1	C	0.43	0/9337	0.88	29/12636 (0.2%)
1	E	0.43	0/9337	0.88	31/12636 (0.2%)
1	G	0.43	0/9337	0.88	29/12636 (0.2%)
1	I	0.43	0/9337	0.88	30/12636 (0.2%)
1	K	0.43	0/9337	0.88	30/12636 (0.2%)
1	M	0.43	0/9337	0.88	30/12636 (0.2%)
2	B	0.84	0/839	0.94	1/1118 (0.1%)
2	D	0.84	0/839	0.94	1/1118 (0.1%)
2	F	0.84	0/839	0.94	1/1118 (0.1%)
2	H	0.84	0/839	0.94	1/1118 (0.1%)
2	J	0.84	0/839	0.94	1/1118 (0.1%)
2	L	0.84	0/839	0.94	1/1118 (0.1%)
2	N	0.84	0/839	0.94	1/1118 (0.1%)
All	All	0.48	0/71232	0.88	216/96278 (0.2%)

There are no bond length outliers.

All (216) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	264	THR	N-CA-C	9.10	120.78	108.23
1	C	264	THR	N-CA-C	9.09	120.78	108.23
1	A	264	THR	N-CA-C	9.09	120.77	108.23
1	M	264	THR	N-CA-C	9.08	120.75	108.23
1	G	264	THR	N-CA-C	9.07	120.75	108.23
1	I	264	THR	N-CA-C	9.07	120.75	108.23
1	K	264	THR	N-CA-C	9.05	120.72	108.23
1	E	153	HIS	N-CA-C	7.86	121.33	108.99
1	C	153	HIS	N-CA-C	7.84	121.30	108.99
1	G	153	HIS	N-CA-C	7.84	121.30	108.99

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	153	HIS	N-CA-C	7.83	121.28	108.99
1	K	153	HIS	N-CA-C	7.82	121.27	108.99
1	M	153	HIS	N-CA-C	7.82	121.27	108.99
1	I	153	HIS	N-CA-C	7.81	121.25	108.99
1	C	171	HIS	N-CA-C	7.06	119.06	111.36
1	G	1094	SER	N-CA-C	7.06	118.97	111.28
1	M	1094	SER	N-CA-C	7.05	118.97	111.28
1	E	171	HIS	N-CA-C	7.04	119.04	111.36
1	E	1094	SER	N-CA-C	7.04	118.96	111.28
1	A	171	HIS	N-CA-C	7.04	119.03	111.36
1	I	1094	SER	N-CA-C	7.03	118.94	111.28
1	K	1094	SER	N-CA-C	7.02	118.94	111.28
1	A	1094	SER	N-CA-C	7.02	118.93	111.28
1	C	1094	SER	N-CA-C	7.02	118.93	111.28
1	G	171	HIS	N-CA-C	7.01	119.00	111.36
1	I	171	HIS	N-CA-C	6.97	118.96	111.36
1	M	171	HIS	N-CA-C	6.97	118.95	111.36
1	K	171	HIS	N-CA-C	6.92	118.90	111.36
1	M	598	ILE	N-CA-C	6.92	119.68	112.83
1	G	598	ILE	N-CA-C	6.92	119.68	112.83
1	I	598	ILE	N-CA-C	6.91	119.67	112.83
1	E	598	ILE	N-CA-C	6.91	119.67	112.83
1	K	598	ILE	N-CA-C	6.91	119.67	112.83
1	A	598	ILE	N-CA-C	6.89	119.66	112.83
1	C	598	ILE	N-CA-C	6.89	119.66	112.83
1	K	187	VAL	N-CA-C	6.76	117.52	110.62
1	I	187	VAL	N-CA-C	6.76	117.52	110.62
1	G	187	VAL	N-CA-C	6.76	117.51	110.62
1	C	187	VAL	N-CA-C	6.76	117.51	110.62
1	E	187	VAL	N-CA-C	6.74	117.50	110.62
1	A	187	VAL	N-CA-C	6.74	117.49	110.62
1	M	187	VAL	N-CA-C	6.73	117.49	110.62
1	C	1089	LEU	N-CA-C	6.71	118.39	111.14
1	E	1089	LEU	N-CA-C	6.71	118.38	111.14
1	G	1089	LEU	N-CA-C	6.70	118.38	111.14
1	I	1089	LEU	N-CA-C	6.70	118.38	111.14
1	A	1089	LEU	N-CA-C	6.70	118.37	111.14
1	K	1089	LEU	N-CA-C	6.67	118.35	111.14
1	M	1089	LEU	N-CA-C	6.66	118.33	111.14
1	M	933	ASN	N-CA-C	6.49	119.35	111.82
1	K	933	ASN	N-CA-C	6.49	119.35	111.82
1	A	385	ASP	N-CA-C	-6.49	104.21	111.28

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	385	ASP	N-CA-C	-6.48	104.21	111.28
1	I	933	ASN	N-CA-C	6.48	119.34	111.82
1	E	385	ASP	N-CA-C	-6.48	104.22	111.28
1	E	933	ASN	N-CA-C	6.47	119.32	111.82
1	A	484	TYR	N-CA-C	-6.45	103.87	111.03
1	C	933	ASN	N-CA-C	6.45	119.30	111.82
1	G	933	ASN	N-CA-C	6.45	119.30	111.82
1	A	933	ASN	N-CA-C	6.45	119.30	111.82
1	I	385	ASP	N-CA-C	-6.45	104.25	111.28
1	K	385	ASP	N-CA-C	-6.45	104.25	111.28
1	G	385	ASP	N-CA-C	-6.45	104.25	111.28
1	K	484	TYR	N-CA-C	-6.44	103.88	111.03
1	I	484	TYR	N-CA-C	-6.44	103.88	111.03
1	E	484	TYR	N-CA-C	-6.44	103.88	111.03
1	G	484	TYR	N-CA-C	-6.44	103.89	111.03
1	M	385	ASP	N-CA-C	-6.43	104.27	111.28
1	C	484	TYR	N-CA-C	-6.43	103.89	111.03
1	M	484	TYR	N-CA-C	-6.39	103.94	111.03
1	E	1078	GLU	N-CA-C	6.34	118.27	111.36
1	G	1078	GLU	N-CA-C	6.34	118.27	111.36
1	I	1078	GLU	N-CA-C	6.33	118.26	111.36
1	C	1078	GLU	N-CA-C	6.33	118.26	111.36
1	K	1078	GLU	N-CA-C	6.33	118.25	111.36
1	A	1078	GLU	N-CA-C	6.32	118.25	111.36
1	M	1078	GLU	N-CA-C	6.30	118.23	111.36
1	A	300	ASN	N-CA-C	6.21	120.13	111.74
1	E	300	ASN	N-CA-C	6.21	120.13	111.74
1	C	300	ASN	N-CA-C	6.21	120.12	111.74
1	G	300	ASN	N-CA-C	6.20	120.12	111.74
1	M	300	ASN	N-CA-C	6.18	120.08	111.74
1	K	300	ASN	N-CA-C	6.18	120.08	111.74
1	A	338	TRP	N-CA-C	6.17	117.81	111.14
1	I	300	ASN	N-CA-C	6.17	120.08	111.74
1	E	338	TRP	N-CA-C	6.16	117.79	111.14
1	C	338	TRP	N-CA-C	6.16	117.79	111.14
2	N	12	GLN	N-CA-C	6.15	118.06	111.36
1	G	338	TRP	N-CA-C	6.14	117.77	111.14
1	I	338	TRP	N-CA-C	6.14	117.77	111.14
1	M	338	TRP	N-CA-C	6.13	117.76	111.14
2	L	12	GLN	N-CA-C	6.13	118.04	111.36
1	K	338	TRP	N-CA-C	6.13	117.76	111.14
2	J	12	GLN	N-CA-C	6.11	118.02	111.36

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	F	12	GLN	N-CA-C	6.10	118.01	111.36
2	H	12	GLN	N-CA-C	6.10	118.01	111.36
2	D	12	GLN	N-CA-C	6.08	117.98	111.36
2	B	12	GLN	N-CA-C	6.07	117.97	111.36
1	M	551	ASN	N-CA-C	6.03	117.93	111.36
1	G	880	GLY	N-CA-C	6.01	127.43	113.18
1	I	880	GLY	N-CA-C	6.01	127.43	113.18
1	K	880	GLY	N-CA-C	6.01	127.43	113.18
1	M	880	GLY	N-CA-C	6.01	127.42	113.18
1	E	880	GLY	N-CA-C	6.01	127.41	113.18
1	C	880	GLY	N-CA-C	6.00	127.41	113.18
1	K	551	ASN	N-CA-C	6.00	117.91	111.36
1	A	880	GLY	N-CA-C	6.00	127.41	113.18
1	I	551	ASN	N-CA-C	6.00	117.90	111.36
1	A	551	ASN	N-CA-C	5.98	117.88	111.36
1	C	551	ASN	N-CA-C	5.98	117.88	111.36
1	G	551	ASN	N-CA-C	5.97	117.87	111.36
1	E	551	ASN	N-CA-C	5.97	117.86	111.36
1	A	487	LEU	N-CA-C	-5.96	104.79	111.28
1	C	487	LEU	N-CA-C	-5.92	104.83	111.28
1	E	487	LEU	N-CA-C	-5.92	104.83	111.28
1	G	487	LEU	N-CA-C	-5.92	104.83	111.28
1	I	487	LEU	N-CA-C	-5.91	104.83	111.28
1	K	487	LEU	N-CA-C	-5.91	104.84	111.28
1	M	487	LEU	N-CA-C	-5.90	104.84	111.28
1	E	482	TYR	O-C-N	5.84	128.31	122.12
1	C	482	TYR	O-C-N	5.84	128.31	122.12
1	G	482	TYR	O-C-N	5.83	128.31	122.12
1	A	482	TYR	O-C-N	5.83	128.30	122.12
1	I	482	TYR	O-C-N	5.83	128.30	122.12
1	K	482	TYR	O-C-N	5.82	128.29	122.12
1	M	482	TYR	O-C-N	5.81	128.28	122.12
1	M	1165	CYS	N-CA-C	-5.79	104.97	111.28
1	K	1165	CYS	N-CA-C	-5.78	104.98	111.28
1	I	1165	CYS	N-CA-C	-5.78	104.98	111.28
1	G	1165	CYS	N-CA-C	-5.77	104.99	111.28
1	M	408	THR	N-CA-C	5.76	117.56	111.28
1	K	408	THR	N-CA-C	5.76	117.55	111.28
1	E	1165	CYS	N-CA-C	-5.75	105.01	111.28
1	C	1165	CYS	N-CA-C	-5.74	105.02	111.28
1	A	1165	CYS	N-CA-C	-5.74	105.03	111.28
1	G	408	THR	N-CA-C	5.72	117.52	111.28

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	408	THR	N-CA-C	5.72	117.52	111.28
1	E	408	THR	N-CA-C	5.71	117.51	111.28
1	C	408	THR	N-CA-C	5.69	117.48	111.28
1	K	363	ALA	N-CA-C	5.69	117.49	108.79
1	A	363	ALA	N-CA-C	5.68	117.49	108.79
1	A	408	THR	N-CA-C	5.68	117.48	111.28
1	M	244	ASP	CB-CA-C	-5.68	110.03	116.63
1	M	363	ALA	N-CA-C	5.68	117.49	108.79
1	C	363	ALA	N-CA-C	5.67	117.47	108.79
1	K	244	ASP	CB-CA-C	-5.67	110.05	116.63
1	I	363	ALA	N-CA-C	5.67	117.46	108.79
1	I	244	ASP	CB-CA-C	-5.66	110.07	116.63
1	G	363	ALA	N-CA-C	5.65	117.44	108.79
1	E	363	ALA	N-CA-C	5.64	117.42	108.79
1	E	244	ASP	CB-CA-C	-5.64	110.09	116.63
1	G	244	ASP	CB-CA-C	-5.64	110.09	116.63
1	M	181	GLY	N-CA-C	-5.63	103.79	112.85
1	K	181	GLY	N-CA-C	-5.61	103.82	112.85
1	A	244	ASP	CB-CA-C	-5.61	110.12	116.63
1	I	181	GLY	N-CA-C	-5.60	103.83	112.85
1	C	244	ASP	CB-CA-C	-5.59	110.14	116.63
1	G	181	GLY	N-CA-C	-5.58	103.86	112.85
1	C	181	GLY	N-CA-C	-5.58	103.87	112.85
1	A	181	GLY	N-CA-C	-5.58	103.87	112.85
1	E	181	GLY	N-CA-C	-5.57	103.88	112.85
1	A	1181	THR	N-CA-C	5.55	117.01	111.07
1	C	1181	THR	N-CA-C	5.52	116.98	111.07
1	E	1181	THR	N-CA-C	5.49	116.95	111.07
1	M	1181	THR	N-CA-C	5.46	116.92	111.07
1	K	1181	THR	N-CA-C	5.46	116.91	111.07
1	I	1181	THR	N-CA-C	5.45	116.91	111.07
1	G	1181	THR	N-CA-C	5.45	116.90	111.07
1	A	260	ILE	N-CA-C	-5.38	100.48	108.45
1	C	260	ILE	N-CA-C	-5.37	100.50	108.45
1	E	260	ILE	N-CA-C	-5.36	100.51	108.45
1	I	260	ILE	N-CA-C	-5.36	100.52	108.45
1	G	260	ILE	N-CA-C	-5.36	100.52	108.45
1	M	260	ILE	N-CA-C	-5.34	100.55	108.45
1	K	260	ILE	N-CA-C	-5.33	100.56	108.45
1	K	599	ASN	N-CA-C	5.23	119.62	112.88
1	I	1090	SER	N-CA-C	-5.23	99.07	108.48
1	E	1090	SER	N-CA-C	-5.22	99.08	108.48

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	1090	SER	N-CA-C	-5.22	99.08	108.48
1	K	1090	SER	N-CA-C	-5.22	99.07	108.48
1	C	1090	SER	N-CA-C	-5.22	99.08	108.48
1	M	1090	SER	N-CA-C	-5.22	99.09	108.48
1	A	1090	SER	N-CA-C	-5.21	99.11	108.48
1	M	599	ASN	N-CA-C	5.20	119.59	112.88
1	G	599	ASN	N-CA-C	5.19	119.57	112.88
1	C	599	ASN	N-CA-C	5.18	119.56	112.88
1	I	599	ASN	N-CA-C	5.18	119.56	112.88
1	E	599	ASN	N-CA-C	5.17	119.55	112.88
1	A	599	ASN	N-CA-C	5.15	119.53	112.88
1	K	644	ALA	N-CA-C	5.15	116.89	111.28
1	C	644	ALA	N-CA-C	5.14	116.88	111.28
1	M	644	ALA	N-CA-C	5.13	116.87	111.28
1	I	644	ALA	N-CA-C	5.12	116.86	111.28
1	A	644	ALA	N-CA-C	5.12	116.86	111.28
1	E	644	ALA	N-CA-C	5.12	116.86	111.28
1	G	644	ALA	N-CA-C	5.12	116.86	111.28
1	C	886	HIS	N-CA-C	-5.10	107.73	114.31
1	A	886	HIS	N-CA-C	-5.10	107.74	114.31
1	E	886	HIS	N-CA-C	-5.09	107.75	114.31
1	G	886	HIS	N-CA-C	-5.07	107.78	114.31
1	I	886	HIS	N-CA-C	-5.07	107.78	114.31
1	E	419	VAL	N-CA-C	-5.05	105.46	110.62
1	G	419	VAL	N-CA-C	-5.05	105.46	110.62
1	I	419	VAL	N-CA-C	-5.05	105.46	110.62
1	K	886	HIS	N-CA-C	-5.04	107.81	114.31
1	M	924	GLN	N-CA-C	5.04	116.77	111.28
1	M	886	HIS	N-CA-C	-5.03	107.82	114.31
1	A	419	VAL	N-CA-C	-5.03	105.49	110.62
1	C	419	VAL	N-CA-C	-5.03	105.49	110.62
1	I	924	GLN	N-CA-C	5.02	116.75	111.28
1	K	419	VAL	N-CA-C	-5.02	105.50	110.62
1	M	419	VAL	N-CA-C	-5.02	105.50	110.62
1	A	924	GLN	N-CA-C	5.01	116.75	111.28
1	E	636	ASP	N-CA-C	-5.01	105.82	111.28
1	E	924	GLN	N-CA-C	5.01	116.74	111.28
1	K	924	GLN	N-CA-C	5.01	116.74	111.28

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts ⓘ

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	9139	0	9005	1408	0
1	C	9139	0	9005	1409	0
1	E	9139	0	9005	1406	0
1	G	9139	0	9005	1417	0
1	I	9139	0	9005	1388	0
1	K	9139	0	9005	1393	0
1	M	9139	0	9005	1403	0
2	B	823	0	849	32	0
2	D	823	0	849	30	0
2	F	823	0	849	31	0
2	H	823	0	849	34	0
2	J	823	0	849	32	0
2	L	823	0	849	32	0
2	N	823	0	849	32	0
3	A	30	0	12	6	0
3	C	30	0	12	6	0
3	E	30	0	12	6	0
3	G	30	0	12	6	0
3	I	30	0	12	7	0
3	K	30	0	12	6	0
3	M	30	0	12	6	0
4	A	1	0	0	0	0
4	C	1	0	0	0	0
4	E	1	0	0	0	0
4	G	1	0	0	0	0
4	I	1	0	0	0	0
4	K	1	0	0	0	0
4	M	1	0	0	0	0
5	B	43	0	30	15	0
5	D	43	0	30	14	0
5	F	43	0	30	15	0
5	H	43	0	30	16	0
5	J	43	0	30	15	0
5	L	43	0	30	14	0
5	N	43	0	30	14	0
All	All	70252	0	69272	9859	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 71.

All (9859) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:544:PHE:CE1	1:E:576:VAL:HG13	1.28	1.68
1:G:544:PHE:CE1	1:G:576:VAL:HG13	1.28	1.67
1:C:544:PHE:CE1	1:C:576:VAL:HG13	1.28	1.65
1:C:862:TYR:CD1	1:C:885:VAL:HG12	1.26	1.64
1:A:544:PHE:CE1	1:A:576:VAL:HG13	1.28	1.64
1:M:544:PHE:CE1	1:M:576:VAL:HG13	1.28	1.64
1:E:862:TYR:CD1	1:E:885:VAL:HG12	1.26	1.63
1:I:544:PHE:CE1	1:I:576:VAL:HG13	1.28	1.63
1:K:862:TYR:CD1	1:K:885:VAL:HG12	1.26	1.63
1:I:862:TYR:CD1	1:I:885:VAL:HG12	1.26	1.61
1:E:862:TYR:CZ	1:E:881:HIS:HB2	1.32	1.61
1:G:862:TYR:CZ	1:G:881:HIS:HB2	1.33	1.61
1:K:544:PHE:CE1	1:K:576:VAL:HG13	1.28	1.61
1:G:862:TYR:CD1	1:G:885:VAL:HG12	1.26	1.60
1:M:862:TYR:CD1	1:M:885:VAL:HG12	1.26	1.60
1:C:862:TYR:CZ	1:C:881:HIS:HB2	1.32	1.60
1:A:862:TYR:CZ	1:A:881:HIS:HB2	1.32	1.59
1:I:862:TYR:CZ	1:I:881:HIS:HB2	1.33	1.59
1:A:862:TYR:CD1	1:A:885:VAL:HG12	1.26	1.58
1:M:862:TYR:CZ	1:M:881:HIS:HB2	1.33	1.57
1:K:862:TYR:CZ	1:K:881:HIS:HB2	1.33	1.57
1:C:595:LEU:HD11	1:C:1201:TRP:CZ2	1.50	1.47
1:G:595:LEU:HD11	1:G:1201:TRP:CZ2	1.50	1.47
1:A:595:LEU:HD11	1:A:1201:TRP:CZ2	1.50	1.46
1:I:595:LEU:HD11	1:I:1201:TRP:CZ2	1.50	1.46
1:K:595:LEU:HD11	1:K:1201:TRP:CZ2	1.50	1.45
1:M:595:LEU:HD11	1:M:1201:TRP:CZ2	1.50	1.45
1:E:595:LEU:HD11	1:E:1201:TRP:CZ2	1.50	1.44
1:G:322:LEU:CD1	1:G:364:LEU:HD23	1.50	1.42
1:C:322:LEU:CD1	1:C:364:LEU:HD23	1.50	1.42
2:B:14:CYS:SG	5:B:201:HEM:CAB	2.09	1.41
2:F:14:CYS:SG	5:F:201:HEM:CAB	2.09	1.41
1:K:322:LEU:CD1	1:K:364:LEU:HD23	1.50	1.41
2:N:14:CYS:SG	5:N:201:HEM:CAB	2.09	1.41
1:E:322:LEU:CD1	1:E:364:LEU:HD23	1.50	1.40
1:A:1185:PHE:HE1	1:A:1192:LEU:CD1	1.32	1.40
1:C:1185:PHE:HE1	1:C:1192:LEU:CD1	1.32	1.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1185:PHE:HE1	1:G:1192:LEU:CD1	1.32	1.40
1:I:322:LEU:CD1	1:I:364:LEU:HD23	1.50	1.40
1:K:1185:PHE:HE1	1:K:1192:LEU:CD1	1.32	1.40
2:H:14:CYS:SG	5:H:201:HEM:CAB	2.09	1.40
2:J:14:CYS:SG	5:J:201:HEM:CAB	2.09	1.40
2:L:14:CYS:SG	5:L:201:HEM:CAB	2.09	1.40
1:M:322:LEU:CD1	1:M:364:LEU:HD23	1.50	1.40
1:M:158:CYS:SG	1:M:284:SER:HB2	1.63	1.39
1:I:1185:PHE:HE1	1:I:1192:LEU:CD1	1.32	1.39
1:C:158:CYS:SG	1:C:284:SER:HB2	1.62	1.39
1:E:158:CYS:SG	1:E:284:SER:HB2	1.63	1.39
1:E:1185:PHE:HE1	1:E:1192:LEU:CD1	1.32	1.39
1:I:158:CYS:SG	1:I:284:SER:HB2	1.63	1.39
1:M:1185:PHE:HE1	1:M:1192:LEU:CD1	1.31	1.39
1:G:158:CYS:SG	1:G:284:SER:HB2	1.63	1.38
1:A:322:LEU:CD1	1:A:364:LEU:HD23	1.50	1.37
2:D:14:CYS:SG	5:D:201:HEM:CAB	2.09	1.37
1:A:158:CYS:SG	1:A:284:SER:HB2	1.62	1.37
1:K:158:CYS:SG	1:K:284:SER:HB2	1.63	1.37
1:I:595:LEU:HD22	1:I:1244:LEU:CD1	1.57	1.35
1:K:595:LEU:HD22	1:K:1244:LEU:CD1	1.57	1.35
1:M:595:LEU:HD22	1:M:1244:LEU:CD1	1.57	1.35
1:G:595:LEU:HD22	1:G:1244:LEU:CD1	1.57	1.34
1:A:595:LEU:HD22	1:A:1244:LEU:CD1	1.57	1.34
1:E:595:LEU:HD22	1:E:1244:LEU:CD1	1.57	1.34
1:C:595:LEU:HD22	1:C:1244:LEU:CD1	1.57	1.33
1:K:927:ASP:O	1:K:938:LEU:HB2	1.29	1.33
1:M:927:ASP:O	1:M:938:LEU:HB2	1.29	1.32
1:I:927:ASP:O	1:I:938:LEU:HB2	1.29	1.31
1:A:927:ASP:O	1:A:938:LEU:HB2	1.29	1.30
1:C:322:LEU:HD12	1:C:364:LEU:CD2	1.63	1.29
1:I:322:LEU:HD12	1:I:364:LEU:CD2	1.63	1.29
1:A:862:TYR:HD1	1:A:885:VAL:CG1	1.45	1.29
1:K:862:TYR:HD1	1:K:885:VAL:CG1	1.45	1.29
1:E:322:LEU:HD12	1:E:364:LEU:CD2	1.63	1.28
1:M:322:LEU:HD12	1:M:364:LEU:CD2	1.63	1.28
1:M:862:TYR:HD1	1:M:885:VAL:CG1	1.45	1.28
1:K:322:LEU:HD12	1:K:364:LEU:CD2	1.63	1.28
1:K:862:TYR:CE1	1:K:881:HIS:HB2	1.69	1.28
1:A:595:LEU:CD2	1:A:1244:LEU:HD13	1.64	1.27
1:G:595:LEU:CD2	1:G:1244:LEU:HD13	1.64	1.27

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:595:LEU:CD2	1:I:1244:LEU:HD13	1.64	1.27
1:M:595:LEU:CD2	1:M:1244:LEU:HD13	1.64	1.27
1:K:595:LEU:CD2	1:K:1244:LEU:HD13	1.64	1.27
1:C:595:LEU:CD2	1:C:1244:LEU:HD13	1.64	1.27
1:C:862:TYR:HD1	1:C:885:VAL:CG1	1.45	1.27
1:E:595:LEU:CD2	1:E:1244:LEU:HD13	1.64	1.27
1:G:862:TYR:HD1	1:G:885:VAL:CG1	1.45	1.27
1:I:862:TYR:HD1	1:I:885:VAL:CG1	1.45	1.27
1:M:862:TYR:CE1	1:M:881:HIS:HB2	1.69	1.27
1:G:322:LEU:HD12	1:G:364:LEU:CD2	1.63	1.27
1:A:322:LEU:HD12	1:A:364:LEU:CD2	1.63	1.27
1:C:862:TYR:CE1	1:C:881:HIS:HB2	1.69	1.26
1:I:862:TYR:CE1	1:I:881:HIS:HB2	1.69	1.26
1:G:927:ASP:O	1:G:938:LEU:HB2	1.29	1.26
1:C:927:ASP:O	1:C:938:LEU:HB2	1.29	1.26
1:E:862:TYR:HD1	1:E:885:VAL:CG1	1.45	1.26
1:G:862:TYR:CE1	1:G:881:HIS:HB2	1.69	1.26
1:E:1167:PRO:HB3	1:E:1202:TRP:CD2	1.71	1.25
1:I:1167:PRO:HB3	1:I:1202:TRP:CD2	1.71	1.25
2:B:17:CYS:SG	5:B:201:HEM:CAC	2.25	1.25
2:D:17:CYS:SG	5:D:201:HEM:CAC	2.25	1.25
2:F:17:CYS:SG	5:F:201:HEM:CAC	2.25	1.25
2:J:17:CYS:SG	5:J:201:HEM:CAC	2.25	1.25
1:A:862:TYR:CE1	1:A:881:HIS:HB2	1.69	1.25
1:E:862:TYR:CE1	1:E:881:HIS:HB2	1.69	1.25
2:H:17:CYS:SG	5:H:201:HEM:CAC	2.25	1.25
1:E:1185:PHE:CD1	1:E:1192:LEU:HG	1.72	1.25
1:G:1167:PRO:HB3	1:G:1202:TRP:CD2	1.71	1.25
2:L:17:CYS:SG	5:L:201:HEM:CAC	2.25	1.25
1:I:1185:PHE:CD1	1:I:1192:LEU:HG	1.72	1.24
1:M:1185:PHE:CD1	1:M:1192:LEU:HG	1.72	1.24
2:N:17:CYS:SG	5:N:201:HEM:CAC	2.25	1.24
1:A:473:LEU:HD21	1:A:484:TYR:CE1	1.72	1.24
1:C:473:LEU:HD21	1:C:484:TYR:CE1	1.72	1.24
2:F:14:CYS:SG	5:F:201:HEM:HAB	1.76	1.24
1:A:1167:PRO:HB3	1:A:1202:TRP:CD2	1.71	1.24
1:E:473:LEU:HD21	1:E:484:TYR:CE1	1.72	1.24
1:K:1167:PRO:HB3	1:K:1202:TRP:CD2	1.71	1.24
1:M:1167:PRO:HB3	1:M:1202:TRP:CD2	1.71	1.24
1:A:1185:PHE:CD1	1:A:1192:LEU:HG	1.72	1.23
2:B:14:CYS:SG	5:B:201:HEM:HAB	1.76	1.23

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:285:SER:O	1:M:319:GLY:HA3	1.37	1.23
1:M:473:LEU:HD21	1:M:484:TYR:CE1	1.72	1.23
1:A:285:SER:O	1:A:319:GLY:HA3	1.37	1.23
1:C:1167:PRO:HB3	1:C:1202:TRP:CD2	1.71	1.23
1:C:1185:PHE:CD1	1:C:1192:LEU:HG	1.72	1.23
1:C:637:LYS:HG2	1:C:659:GLU:CA	1.69	1.23
1:E:927:ASP:O	1:E:938:LEU:HB2	1.29	1.23
1:G:637:LYS:CG	1:G:659:GLU:HA	1.69	1.23
1:M:637:LYS:CG	1:M:659:GLU:HA	1.69	1.23
1:G:473:LEU:HD21	1:G:484:TYR:CE1	1.72	1.22
1:K:473:LEU:HD21	1:K:484:TYR:CE1	1.72	1.22
1:C:637:LYS:CG	1:C:659:GLU:HA	1.69	1.22
1:G:1185:PHE:CD1	1:G:1192:LEU:HG	1.72	1.22
1:I:473:LEU:HD21	1:I:484:TYR:CE1	1.72	1.22
1:K:1185:PHE:CD1	1:K:1192:LEU:HG	1.72	1.22
1:G:637:LYS:HG2	1:G:659:GLU:CA	1.69	1.22
1:K:285:SER:O	1:K:319:GLY:HA3	1.37	1.22
1:G:285:SER:O	1:G:319:GLY:HA3	1.37	1.22
1:K:637:LYS:CG	1:K:659:GLU:HA	1.69	1.22
2:N:14:CYS:SG	5:N:201:HEM:HAB	1.76	1.22
1:E:637:LYS:HG2	1:E:659:GLU:CA	1.69	1.21
1:I:637:LYS:CG	1:I:659:GLU:HA	1.69	1.21
1:E:1185:PHE:CE1	1:E:1192:LEU:CD1	2.24	1.21
1:K:637:LYS:HG2	1:K:659:GLU:CA	1.69	1.21
1:M:1185:PHE:CE1	1:M:1192:LEU:CD1	2.24	1.21
1:A:1185:PHE:CE1	1:A:1192:LEU:CD1	2.24	1.21
1:C:285:SER:O	1:C:319:GLY:HA3	1.37	1.21
1:M:637:LYS:HG2	1:M:659:GLU:CA	1.69	1.21
1:A:637:LYS:HG2	1:A:659:GLU:CA	1.69	1.21
1:I:457:HIS:CD2	1:I:493:SER:CB	2.24	1.21
1:A:637:LYS:CG	1:A:659:GLU:HA	1.69	1.20
1:G:544:PHE:CD1	1:G:576:VAL:HG13	1.75	1.20
1:K:457:HIS:CD2	1:K:493:SER:CB	2.24	1.20
1:E:544:PHE:CE1	1:E:576:VAL:CG1	2.24	1.20
1:E:544:PHE:CD1	1:E:576:VAL:HG13	1.75	1.20
1:E:637:LYS:CG	1:E:659:GLU:HA	1.69	1.20
1:A:544:PHE:CD1	1:A:576:VAL:HG13	1.75	1.20
1:M:544:PHE:CE1	1:M:576:VAL:CG1	2.24	1.20
1:C:457:HIS:CD2	1:C:493:SER:CB	2.24	1.20
1:C:544:PHE:CE1	1:C:576:VAL:CG1	2.24	1.20
1:G:457:HIS:CD2	1:G:493:SER:CB	2.24	1.20

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:544:PHE:CE1	1:G:576:VAL:CG1	2.24	1.20
1:I:1185:PHE:CE1	1:I:1192:LEU:CD1	2.24	1.20
1:A:544:PHE:CE1	1:A:576:VAL:CG1	2.25	1.20
1:C:1185:PHE:CE1	1:C:1192:LEU:CD1	2.24	1.20
1:I:544:PHE:CD1	1:I:576:VAL:HG13	1.75	1.20
1:K:544:PHE:CE1	1:K:576:VAL:CG1	2.24	1.20
2:D:14:CYS:SG	5:D:201:HEM:HAB	1.76	1.19
1:G:1185:PHE:CE1	1:G:1192:LEU:CD1	2.24	1.19
1:I:637:LYS:HG2	1:I:659:GLU:CA	1.69	1.19
1:M:457:HIS:CD2	1:M:493:SER:CB	2.24	1.19
1:C:544:PHE:CD1	1:C:576:VAL:HG13	1.75	1.19
1:I:544:PHE:CE1	1:I:576:VAL:CG1	2.24	1.19
1:K:544:PHE:CD1	1:K:576:VAL:HG13	1.75	1.19
1:E:457:HIS:CD2	1:E:493:SER:CB	2.24	1.19
1:M:595:LEU:HD13	1:M:1244:LEU:HD22	1.22	1.19
1:I:285:SER:O	1:I:319:GLY:HA3	1.37	1.19
1:I:595:LEU:HD13	1:I:1244:LEU:HD22	1.22	1.19
1:I:862:TYR:CD1	1:I:885:VAL:CG1	2.23	1.19
1:I:862:TYR:CZ	1:I:881:HIS:CB	2.26	1.19
1:K:1185:PHE:CE1	1:K:1192:LEU:CD1	2.24	1.19
2:L:14:CYS:SG	5:L:201:HEM:HAB	1.76	1.19
1:M:544:PHE:CD1	1:M:576:VAL:HG13	1.75	1.19
1:A:862:TYR:CD1	1:A:885:VAL:CG1	2.23	1.18
1:C:453:LEU:HA	1:C:456:LEU:HD12	1.19	1.18
1:G:862:TYR:CZ	1:G:881:HIS:CB	2.26	1.18
1:K:862:TYR:CD1	1:K:885:VAL:CG1	2.23	1.18
1:K:862:TYR:CZ	1:K:881:HIS:CB	2.26	1.18
1:A:457:HIS:CD2	1:A:493:SER:CB	2.24	1.18
1:A:520:ALA:HB1	1:A:648:GLU:CB	1.74	1.18
1:E:285:SER:O	1:E:319:GLY:HA3	1.37	1.18
2:H:18:HIS:CE1	2:H:29:GLY:HA3	1.79	1.18
2:F:18:HIS:CE1	2:F:29:GLY:HA3	1.79	1.18
1:G:584:ALA:O	1:G:588:VAL:HG23	1.41	1.18
1:C:520:ALA:HB1	1:C:648:GLU:CB	1.74	1.18
1:E:584:ALA:O	1:E:588:VAL:HG23	1.41	1.18
1:A:230:LEU:HD22	1:A:234:LYS:HG3	1.24	1.17
1:A:862:TYR:CZ	1:A:881:HIS:CB	2.26	1.17
1:I:1149:GLY:HA2	1:I:1180:VAL:CG2	1.74	1.17
1:K:1149:GLY:HA2	1:K:1180:VAL:CG2	1.74	1.17
1:M:520:ALA:HB1	1:M:648:GLU:CB	1.74	1.17
1:C:862:TYR:CZ	1:C:881:HIS:CB	2.26	1.17

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:453:LEU:HA	1:E:456:LEU:HD12	1.19	1.17
1:M:862:TYR:CZ	1:M:881:HIS:CB	2.26	1.17
1:M:881:HIS:ND1	1:M:901:SER:HB3	1.59	1.17
1:M:1149:GLY:HA2	1:M:1180:VAL:CG2	1.74	1.17
2:B:18:HIS:CE1	2:B:29:GLY:HA3	1.79	1.17
1:E:862:TYR:CZ	1:E:881:HIS:CB	2.26	1.17
1:G:1149:GLY:HA2	1:G:1180:VAL:CG2	1.74	1.17
1:A:881:HIS:ND1	1:A:901:SER:HB3	1.60	1.17
1:I:584:ALA:O	1:I:588:VAL:HG23	1.41	1.17
1:I:881:HIS:ND1	1:I:901:SER:HB3	1.60	1.17
1:M:862:TYR:CD1	1:M:885:VAL:CG1	2.23	1.17
1:E:520:ALA:HB1	1:E:648:GLU:CB	1.74	1.17
2:D:18:HIS:CE1	2:D:29:GLY:HA3	1.79	1.16
1:G:595:LEU:HD13	1:G:1244:LEU:HD22	1.22	1.16
2:J:14:CYS:SG	5:J:201:HEM:HAB	1.76	1.16
1:A:1149:GLY:HA2	1:A:1180:VAL:CG2	1.74	1.16
1:C:1185:PHE:HE1	1:C:1192:LEU:HD11	1.10	1.16
1:E:1149:GLY:HA2	1:E:1180:VAL:CG2	1.74	1.16
1:K:394:LYS:HB3	1:K:434:ARG:HB2	1.18	1.16
1:K:520:ALA:HB1	1:K:648:GLU:CB	1.74	1.16
2:L:18:HIS:CE1	2:L:29:GLY:HA3	1.79	1.16
1:A:453:LEU:HA	1:A:456:LEU:HD12	1.19	1.16
1:A:1185:PHE:HE1	1:A:1192:LEU:HD11	1.10	1.16
1:C:584:ALA:O	1:C:588:VAL:HG23	1.41	1.16
1:K:584:ALA:O	1:K:588:VAL:HG23	1.41	1.16
1:C:1149:GLY:HA2	1:C:1180:VAL:CG2	1.74	1.16
1:G:881:HIS:ND1	1:G:901:SER:HB3	1.60	1.16
1:G:453:LEU:HA	1:G:456:LEU:HD12	1.19	1.16
1:G:520:ALA:HB1	1:G:648:GLU:CB	1.74	1.16
1:K:595:LEU:HD13	1:K:1244:LEU:HD22	1.22	1.16
2:N:18:HIS:CE1	2:N:29:GLY:HA3	1.78	1.16
1:C:374:MET:HA	1:C:374:MET:HE3	1.29	1.15
1:C:1185:PHE:CE1	1:C:1192:LEU:HD11	1.81	1.15
1:E:881:HIS:ND1	1:E:901:SER:HB3	1.60	1.15
2:H:14:CYS:SG	5:H:201:HEM:HAB	1.76	1.15
1:I:520:ALA:HB1	1:I:648:GLU:CB	1.74	1.15
1:M:394:LYS:HB3	1:M:434:ARG:HB2	1.18	1.15
2:J:18:HIS:CE1	2:J:29:GLY:HA3	1.79	1.15
1:A:595:LEU:HD13	1:A:1244:LEU:HD22	1.22	1.15
1:K:374:MET:HA	1:K:374:MET:HE3	1.29	1.15
1:K:881:HIS:ND1	1:K:901:SER:HB3	1.60	1.15

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1185:PHE:CE1	1:A:1192:LEU:HG	1.81	1.15
1:C:230:LEU:HD22	1:C:234:LYS:HG3	1.24	1.15
1:C:881:HIS:ND1	1:C:901:SER:HB3	1.60	1.15
1:M:584:ALA:O	1:M:588:VAL:HG23	1.41	1.15
1:G:1185:PHE:CE1	1:G:1192:LEU:HG	1.81	1.15
1:A:584:ALA:O	1:A:588:VAL:HG23	1.41	1.14
1:I:394:LYS:HB3	1:I:434:ARG:HB2	1.18	1.14
1:I:1185:PHE:CE1	1:I:1192:LEU:HG	1.82	1.14
1:M:1185:PHE:CE1	1:M:1192:LEU:HG	1.82	1.14
1:A:1218:THR:O	1:A:1236:ASP:HB2	1.46	1.14
1:E:882:LEU:HD22	1:E:882:LEU:H	0.99	1.14
1:K:1087:THR:HG23	2:L:39:LYS:HD3	1.26	1.14
1:M:1218:THR:O	1:M:1236:ASP:HB2	1.46	1.14
1:C:1185:PHE:CE1	1:C:1192:LEU:HG	1.81	1.14
1:C:1218:THR:O	1:C:1236:ASP:HB2	1.46	1.14
1:E:1185:PHE:CE1	1:E:1192:LEU:HG	1.81	1.14
1:I:230:LEU:HD22	1:I:234:LYS:HG3	1.24	1.14
1:E:374:MET:HA	1:E:374:MET:HE3	1.28	1.14
1:C:639:LEU:CD2	1:C:653:ILE:HD12	1.79	1.13
1:E:639:LEU:CD2	1:E:653:ILE:HD12	1.79	1.13
1:K:1218:THR:O	1:K:1236:ASP:HB2	1.46	1.13
1:A:374:MET:HE3	1:A:374:MET:HA	1.29	1.13
1:A:639:LEU:CD2	1:A:653:ILE:HD12	1.78	1.13
1:E:1218:THR:O	1:E:1236:ASP:HB2	1.46	1.13
1:I:374:MET:HA	1:I:374:MET:HE3	1.29	1.13
1:K:1185:PHE:CE1	1:K:1192:LEU:HD11	1.81	1.13
1:K:1185:PHE:CE1	1:K:1192:LEU:HG	1.82	1.13
1:M:230:LEU:HD22	1:M:234:LYS:HG3	1.24	1.13
1:M:374:MET:HA	1:M:374:MET:HE3	1.29	1.13
1:E:122:ARG:NH2	1:E:126:PHE:HZ	1.47	1.13
1:G:639:LEU:CD2	1:G:653:ILE:HD12	1.79	1.13
1:I:457:HIS:CD2	1:I:493:SER:HB2	1.83	1.13
1:I:882:LEU:HB3	1:I:1237:ASN:HD21	1.10	1.13
1:K:473:LEU:HD11	1:K:480:CYS:HB2	1.13	1.13
1:K:595:LEU:CD1	1:K:1201:TRP:CZ2	2.32	1.13
1:M:639:LEU:CD2	1:M:653:ILE:HD12	1.79	1.13
1:M:1087:THR:HG23	2:N:39:LYS:HD3	1.26	1.13
1:A:122:ARG:NH2	1:A:126:PHE:HZ	1.47	1.13
1:E:614:HIS:HE1	1:E:640:GLN:HG2	1.14	1.13
1:G:457:HIS:CD2	1:G:493:SER:HB2	1.83	1.13
1:G:1185:PHE:CE1	1:G:1192:LEU:HD11	1.81	1.13

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:453:LEU:HA	1:I:456:LEU:HD12	1.19	1.13
1:I:1218:THR:O	1:I:1236:ASP:HB2	1.46	1.13
1:C:595:LEU:CD1	1:C:1201:TRP:CZ2	2.32	1.13
1:E:473:LEU:HD11	1:E:480:CYS:HB2	1.13	1.13
1:E:595:LEU:HD13	1:E:1244:LEU:HD22	1.22	1.12
1:G:230:LEU:HD22	1:G:234:LYS:HG3	1.24	1.13
1:G:1218:THR:O	1:G:1236:ASP:HB2	1.46	1.12
1:I:614:HIS:HE1	1:I:640:GLN:HG2	1.14	1.12
1:I:1185:PHE:CE1	1:I:1192:LEU:HD11	1.81	1.12
1:K:122:ARG:NH2	1:K:126:PHE:HZ	1.47	1.13
1:K:457:HIS:CD2	1:K:493:SER:HB2	1.83	1.13
1:A:595:LEU:CD1	1:A:1201:TRP:CZ2	2.32	1.12
1:C:457:HIS:CD2	1:C:493:SER:HB2	1.83	1.12
1:E:457:HIS:CD2	1:E:493:SER:HB2	1.83	1.12
1:C:882:LEU:HD22	1:C:882:LEU:H	0.99	1.12
1:I:122:ARG:NH2	1:I:126:PHE:HZ	1.47	1.12
1:I:595:LEU:CD1	1:I:1201:TRP:CZ2	2.32	1.12
1:I:639:LEU:CD2	1:I:653:ILE:HD12	1.78	1.12
1:M:453:LEU:HA	1:M:456:LEU:HD12	1.19	1.12
1:C:595:LEU:HD13	1:C:1244:LEU:HD22	1.22	1.12
1:E:230:LEU:HD22	1:E:234:LYS:HG3	1.24	1.12
1:M:595:LEU:CD1	1:M:1201:TRP:CZ2	2.32	1.12
1:E:1185:PHE:CE1	1:E:1192:LEU:HD11	1.81	1.12
1:I:1087:THR:HG23	2:J:39:LYS:HD3	1.26	1.12
1:K:639:LEU:CD2	1:K:653:ILE:HD12	1.79	1.12
1:K:1220:LEU:H	1:K:1220:LEU:HD12	1.06	1.12
1:M:1185:PHE:CE1	1:M:1192:LEU:HD11	1.81	1.12
1:M:457:HIS:CD2	1:M:493:SER:HB2	1.83	1.11
1:A:394:LYS:HB3	1:A:434:ARG:HB2	1.18	1.11
1:E:595:LEU:CD1	1:E:1201:TRP:CZ2	2.32	1.11
1:A:457:HIS:CD2	1:A:493:SER:HB2	1.83	1.11
1:M:882:LEU:H	1:M:882:LEU:HD22	0.98	1.11
1:M:1185:PHE:CE1	1:M:1192:LEU:CG	2.34	1.11
1:C:431:LYS:NZ	1:E:336:ASN:HB3	1.66	1.11
1:E:179:PRO:HD2	1:E:237:ARG:HH11	1.11	1.11
1:E:1087:THR:HG23	2:F:39:LYS:HD3	1.26	1.11
1:I:431:LYS:NZ	1:K:336:ASN:HB3	1.66	1.11
1:K:453:LEU:HA	1:K:456:LEU:HD12	1.19	1.11
1:M:1220:LEU:HD12	1:M:1220:LEU:H	1.06	1.11
1:A:882:LEU:HB3	1:A:1237:ASN:HD21	1.10	1.11
1:A:882:LEU:H	1:A:882:LEU:HD22	0.99	1.11

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1185:PHE:CE1	1:A:1192:LEU:CG	2.34	1.11
1:E:431:LYS:NZ	1:G:336:ASN:HB3	1.66	1.11
1:E:862:TYR:CD1	1:E:885:VAL:CG1	2.23	1.11
1:G:394:LYS:HB3	1:G:434:ARG:HB2	1.18	1.11
1:G:595:LEU:CD1	1:G:1201:TRP:CZ2	2.32	1.11
1:I:473:LEU:HD11	1:I:480:CYS:HB2	1.13	1.11
1:A:614:HIS:HE1	1:A:640:GLN:HG2	1.14	1.10
1:C:122:ARG:NH2	1:C:126:PHE:HZ	1.47	1.10
1:C:179:PRO:HD2	1:C:237:ARG:HH11	1.12	1.10
1:G:122:ARG:NH2	1:G:126:PHE:HZ	1.47	1.10
1:G:1220:LEU:H	1:G:1220:LEU:HD12	1.06	1.10
1:M:122:ARG:NH2	1:M:126:PHE:HZ	1.47	1.10
1:A:879:ARG:HB3	1:A:921:MET:CE	1.81	1.10
1:G:374:MET:HA	1:G:374:MET:HE3	1.29	1.10
1:K:879:ARG:HB3	1:K:921:MET:CE	1.81	1.10
1:A:381:ASP:O	1:A:384:THR:HG23	1.52	1.10
1:A:431:LYS:NZ	1:C:336:ASN:HB3	1.66	1.10
1:A:999:ARG:HD3	1:A:1030:TRP:CD1	1.87	1.10
1:C:381:ASP:O	1:C:384:THR:HG23	1.52	1.10
1:C:1087:THR:HG23	2:D:39:LYS:HD3	1.26	1.10
1:C:1185:PHE:CE1	1:C:1192:LEU:CG	2.34	1.10
1:E:1220:LEU:HD12	1:E:1220:LEU:H	1.06	1.10
1:G:473:LEU:HD11	1:G:480:CYS:HB2	1.13	1.10
1:G:862:TYR:CD1	1:G:885:VAL:CG1	2.23	1.10
1:K:614:HIS:HE1	1:K:640:GLN:HG2	1.14	1.10
1:M:614:HIS:HE1	1:M:640:GLN:HG2	1.14	1.10
1:A:473:LEU:CD2	1:A:484:TYR:CE1	2.35	1.10
1:I:473:LEU:CD2	1:I:484:TYR:CE1	2.35	1.10
1:K:1185:PHE:CE1	1:K:1192:LEU:CG	2.34	1.10
1:M:473:LEU:HD11	1:M:480:CYS:HB2	1.13	1.10
1:A:1185:PHE:CE1	1:A:1192:LEU:HD11	1.81	1.10
1:C:882:LEU:H	1:C:882:LEU:CD2	1.65	1.10
1:E:1185:PHE:CE1	1:E:1192:LEU:CG	2.34	1.10
1:G:879:ARG:HB3	1:G:921:MET:CE	1.81	1.10
1:I:879:ARG:HB3	1:I:921:MET:CE	1.81	1.10
1:I:999:ARG:HD3	1:I:1030:TRP:CD1	1.87	1.10
1:I:1220:LEU:H	1:I:1220:LEU:HD12	1.06	1.10
1:K:431:LYS:NZ	1:M:336:ASN:HB3	1.66	1.10
1:C:394:LYS:HB3	1:C:434:ARG:HB2	1.18	1.09
1:G:473:LEU:CD2	1:G:484:TYR:CE1	2.35	1.09
1:M:473:LEU:CD2	1:M:484:TYR:CE1	2.35	1.09

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:879:ARG:HB3	1:M:921:MET:CE	1.81	1.09
1:A:1087:THR:HG23	2:B:39:LYS:HD3	1.26	1.09
1:E:381:ASP:O	1:E:384:THR:HG23	1.52	1.09
1:E:999:ARG:HD3	1:E:1030:TRP:CD1	1.87	1.09
1:G:381:ASP:O	1:G:384:THR:HG23	1.52	1.09
1:G:1185:PHE:CE1	1:G:1192:LEU:CG	2.34	1.09
1:I:882:LEU:HD22	1:I:882:LEU:H	0.99	1.09
1:C:879:ARG:HB3	1:C:921:MET:CE	1.81	1.09
1:G:923:LYS:HB2	1:G:940:VAL:HG23	1.10	1.09
1:I:1185:PHE:CE1	1:I:1192:LEU:CG	2.34	1.09
1:K:999:ARG:HD3	1:K:1030:TRP:CD1	1.87	1.09
1:M:882:LEU:H	1:M:882:LEU:CD2	1.64	1.09
1:M:999:ARG:HD3	1:M:1030:TRP:CD1	1.87	1.09
1:G:882:LEU:H	1:G:882:LEU:CD2	1.64	1.09
1:I:1087:THR:CG2	2:J:39:LYS:HD3	1.83	1.09
1:A:1087:THR:CG2	2:B:39:LYS:HD3	1.83	1.09
1:C:473:LEU:CD2	1:C:484:TYR:CE1	2.35	1.09
1:E:394:LYS:HB3	1:E:434:ARG:HB2	1.18	1.09
1:E:923:LYS:HB2	1:E:940:VAL:HG23	1.10	1.09
1:G:179:PRO:HD2	1:G:237:ARG:HH11	1.12	1.09
1:G:431:LYS:NZ	1:I:336:ASN:HB3	1.66	1.09
1:K:230:LEU:HD22	1:K:234:LYS:HG3	1.24	1.09
1:M:381:ASP:O	1:M:384:THR:HG23	1.52	1.09
1:A:1220:LEU:H	1:A:1220:LEU:HD12	1.06	1.08
1:G:1087:THR:CG2	2:H:39:LYS:HD3	1.83	1.08
1:I:381:ASP:O	1:I:384:THR:HG23	1.52	1.08
1:I:882:LEU:H	1:I:882:LEU:CD2	1.64	1.08
1:K:1087:THR:CG2	2:L:39:LYS:HD3	1.83	1.08
1:M:1087:THR:CG2	2:N:39:LYS:HD3	1.83	1.08
1:C:473:LEU:HD11	1:C:480:CYS:HB2	1.13	1.08
1:C:999:ARG:HD3	1:C:1030:TRP:CD1	1.87	1.08
1:G:882:LEU:HB3	1:G:1237:ASN:HD21	1.10	1.08
1:G:1087:THR:HG23	2:H:39:LYS:HD3	1.26	1.08
1:A:336:ASN:HB3	1:M:431:LYS:NZ	1.66	1.08
1:A:473:LEU:HD11	1:A:480:CYS:HB2	1.13	1.08
1:E:473:LEU:CD2	1:E:484:TYR:CE1	2.35	1.08
1:E:882:LEU:HB3	1:E:1237:ASN:HD21	1.10	1.08
1:K:457:HIS:CG	1:K:493:SER:HB2	1.88	1.08
1:K:473:LEU:CD2	1:K:484:TYR:CE1	2.35	1.08
1:A:179:PRO:HD2	1:A:237:ARG:HH11	1.12	1.08
1:C:862:TYR:CD1	1:C:885:VAL:CG1	2.23	1.08

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:882:LEU:H	1:E:882:LEU:CD2	1.64	1.08
1:G:999:ARG:HD3	1:G:1030:TRP:CD1	1.87	1.08
1:I:923:LYS:HB2	1:I:940:VAL:HG23	1.10	1.08
1:M:457:HIS:CG	1:M:493:SER:HB2	1.88	1.08
1:C:298:PHE:CE2	1:C:325:SER:HA	1.89	1.08
1:C:1087:THR:CG2	2:D:39:LYS:HD3	1.83	1.08
1:C:1220:LEU:H	1:C:1220:LEU:HD12	1.06	1.08
1:E:879:ARG:HB3	1:E:921:MET:CE	1.81	1.08
1:G:298:PHE:CE2	1:G:325:SER:HA	1.89	1.08
1:K:381:ASP:O	1:K:384:THR:HG23	1.52	1.08
1:K:529:TYR:O	1:K:532:ILE:HG23	1.54	1.08
1:M:882:LEU:HB3	1:M:1237:ASN:HD21	1.10	1.08
1:A:882:LEU:H	1:A:882:LEU:CD2	1.65	1.07
1:C:457:HIS:CG	1:C:493:SER:HB2	1.88	1.07
1:I:171:HIS:CD2	1:I:175:GLU:HB2	1.89	1.07
1:I:457:HIS:CG	1:I:493:SER:HB2	1.88	1.07
1:K:923:LYS:HB2	1:K:940:VAL:HG23	1.10	1.07
1:M:923:LYS:HB2	1:M:940:VAL:HG23	1.10	1.07
1:C:923:LYS:HB2	1:C:940:VAL:HG23	1.10	1.07
1:E:212:PHE:HB3	1:E:226:ARG:HH12	0.94	1.07
1:E:457:HIS:CG	1:E:493:SER:HB2	1.88	1.07
1:G:171:HIS:CD2	1:G:175:GLU:HB2	1.89	1.07
1:G:1167:PRO:HB3	1:G:1202:TRP:CE3	1.89	1.07
1:I:529:TYR:O	1:I:532:ILE:HG23	1.54	1.07
1:K:298:PHE:CE2	1:K:325:SER:HA	1.89	1.07
1:A:923:LYS:HB2	1:A:940:VAL:HG23	1.10	1.07
1:E:171:HIS:CD2	1:E:175:GLU:HB2	1.89	1.07
1:I:1167:PRO:HB3	1:I:1202:TRP:CE3	1.89	1.07
1:A:457:HIS:CG	1:A:493:SER:HB2	1.88	1.07
1:A:520:ALA:HB1	1:A:648:GLU:HB2	1.08	1.07
1:A:1167:PRO:HB3	1:A:1202:TRP:CE3	1.89	1.07
1:C:171:HIS:CD2	1:C:175:GLU:HB2	1.89	1.07
1:C:212:PHE:HB3	1:C:226:ARG:HH12	0.94	1.07
1:C:1167:PRO:HB3	1:C:1202:TRP:CE3	1.89	1.07
1:E:1087:THR:CG2	2:F:39:LYS:HD3	1.83	1.07
1:K:171:HIS:CD2	1:K:175:GLU:HB2	1.89	1.07
1:M:179:PRO:CD	1:M:237:ARG:HH11	1.68	1.07
1:C:540:VAL:HG13	1:C:575:GLU:HB3	1.37	1.07
1:C:614:HIS:HE1	1:C:640:GLN:HG2	1.14	1.07
1:G:540:VAL:HG13	1:G:575:GLU:HB3	1.37	1.07
1:G:614:HIS:HE1	1:G:640:GLN:HG2	1.14	1.07

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:298:PHE:HE2	1:I:325:SER:HA	1.16	1.07
1:I:540:VAL:HG13	1:I:575:GLU:HB3	1.37	1.07
1:M:171:HIS:CD2	1:M:175:GLU:HB2	1.89	1.07
1:M:298:PHE:CE2	1:M:325:SER:HA	1.89	1.07
1:M:529:TYR:O	1:M:532:ILE:HG23	1.54	1.07
1:A:158:CYS:SG	1:A:284:SER:CB	2.43	1.06
1:A:473:LEU:HD21	1:A:484:TYR:CZ	1.91	1.06
1:C:473:LEU:HD21	1:C:484:TYR:CZ	1.91	1.06
1:E:298:PHE:CE2	1:E:325:SER:HA	1.89	1.06
1:E:473:LEU:HD21	1:E:484:TYR:CZ	1.91	1.06
1:G:457:HIS:CG	1:G:493:SER:HB2	1.88	1.06
1:G:882:LEU:H	1:G:882:LEU:HD22	0.99	1.06
1:I:179:PRO:HD2	1:I:237:ARG:HH11	1.12	1.06
1:K:882:LEU:H	1:K:882:LEU:CD2	1.64	1.06
1:K:1167:PRO:HB3	1:K:1202:TRP:CE3	1.89	1.06
1:M:1167:PRO:HB3	1:M:1202:TRP:CE3	1.89	1.06
1:E:540:VAL:HG13	1:E:575:GLU:HB3	1.37	1.06
1:I:453:LEU:HD11	1:I:454:GLN:HE21	1.14	1.06
1:M:298:PHE:HE2	1:M:325:SER:HA	1.16	1.06
1:C:158:CYS:SG	1:C:284:SER:CB	2.43	1.06
1:C:520:ALA:HB1	1:C:648:GLU:HB2	1.08	1.06
1:E:1167:PRO:HB3	1:E:1202:TRP:CE3	1.89	1.06
1:I:179:PRO:CD	1:I:237:ARG:HH11	1.68	1.06
1:I:298:PHE:CE2	1:I:325:SER:HA	1.89	1.06
1:M:520:ALA:HB1	1:M:648:GLU:HB2	1.09	1.06
1:A:171:HIS:CD2	1:A:175:GLU:HB2	1.89	1.06
1:C:882:LEU:HB3	1:C:1237:ASN:HD21	1.10	1.06
1:E:453:LEU:HD11	1:E:454:GLN:HE21	1.14	1.06
1:G:453:LEU:HD11	1:G:454:GLN:HE21	1.14	1.06
1:G:473:LEU:HD21	1:G:484:TYR:CZ	1.90	1.06
1:G:520:ALA:HB1	1:G:648:GLU:HB2	1.09	1.06
1:G:529:TYR:O	1:G:532:ILE:HG23	1.54	1.06
1:K:453:LEU:HD11	1:K:454:GLN:HE21	1.14	1.06
1:K:540:VAL:HG13	1:K:575:GLU:HB3	1.37	1.06
1:M:453:LEU:HD11	1:M:454:GLN:HE21	1.14	1.06
1:M:473:LEU:HD21	1:M:484:TYR:CZ	1.90	1.06
1:A:453:LEU:HD11	1:A:454:GLN:HE21	1.14	1.06
1:A:1200:LYS:HD3	1:A:1202:TRP:CE2	1.91	1.06
1:G:212:PHE:HB3	1:G:226:ARG:HH12	0.94	1.06
1:I:520:ALA:HB1	1:I:648:GLU:HB2	1.09	1.06
1:K:882:LEU:HB3	1:K:1237:ASN:HD21	1.10	1.06

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:158:CYS:SG	1:M:284:SER:CB	2.43	1.06
1:A:540:VAL:HG13	1:A:575:GLU:HB3	1.37	1.05
1:M:179:PRO:HD2	1:M:237:ARG:HH11	1.11	1.05
1:A:179:PRO:CD	1:A:237:ARG:HH11	1.68	1.05
1:A:298:PHE:CE2	1:A:325:SER:HA	1.89	1.05
1:E:158:CYS:SG	1:E:284:SER:CB	2.43	1.05
1:E:179:PRO:CD	1:E:237:ARG:HH11	1.68	1.05
1:K:1185:PHE:HE1	1:K:1192:LEU:HD11	1.10	1.05
1:E:544:PHE:CD1	1:E:576:VAL:CG1	2.40	1.05
1:G:158:CYS:SG	1:G:284:SER:CB	2.43	1.05
1:G:597:TRP:CH2	1:G:603:ILE:HD11	1.92	1.05
1:I:158:CYS:SG	1:I:284:SER:CB	2.43	1.05
1:K:179:PRO:HD2	1:K:237:ARG:HH11	1.12	1.05
1:K:882:LEU:H	1:K:882:LEU:HD22	0.98	1.05
1:M:1200:LYS:HD3	1:M:1202:TRP:CE2	1.91	1.05
1:C:179:PRO:CD	1:C:237:ARG:HH11	1.68	1.05
1:G:1185:PHE:HE1	1:G:1192:LEU:HD11	1.10	1.05
1:I:1200:LYS:HD3	1:I:1202:TRP:CZ2	1.92	1.05
1:A:212:PHE:HB3	1:A:226:ARG:HH12	0.94	1.05
1:E:923:LYS:CB	1:E:940:VAL:HG23	1.87	1.05
1:K:158:CYS:SG	1:K:284:SER:CB	2.43	1.05
1:K:179:PRO:CD	1:K:237:ARG:HH11	1.68	1.05
1:K:212:PHE:HB3	1:K:226:ARG:HH12	0.94	1.05
1:M:540:VAL:HG13	1:M:575:GLU:HB3	1.37	1.05
1:A:597:TRP:CH2	1:A:603:ILE:HD11	1.92	1.04
1:E:520:ALA:HB1	1:E:648:GLU:HB2	1.09	1.04
1:I:1200:LYS:HD3	1:I:1202:TRP:CE2	1.91	1.04
1:K:473:LEU:HD21	1:K:484:TYR:CZ	1.90	1.04
1:K:520:ALA:HB1	1:K:648:GLU:HB2	1.09	1.04
1:M:212:PHE:HB3	1:M:226:ARG:NH1	1.72	1.04
1:C:597:TRP:CH2	1:C:603:ILE:HD11	1.92	1.04
1:C:923:LYS:CB	1:C:940:VAL:HG23	1.87	1.04
1:E:948:LEU:HD12	1:E:957:ASP:OD2	1.57	1.04
1:A:212:PHE:HB3	1:A:226:ARG:NH1	1.72	1.04
1:A:529:TYR:O	1:A:532:ILE:HG23	1.54	1.04
1:A:931:GLN:O	1:A:932:GLU:HB2	1.58	1.04
1:A:948:LEU:HD12	1:A:957:ASP:OD2	1.57	1.04
1:C:179:PRO:CD	1:C:237:ARG:NH1	2.21	1.04
1:E:179:PRO:CD	1:E:237:ARG:NH1	2.21	1.04
1:E:597:TRP:CH2	1:E:603:ILE:HD11	1.92	1.04
1:E:1200:LYS:HD3	1:E:1202:TRP:CE2	1.91	1.04

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:179:PRO:CD	1:G:237:ARG:HH11	1.68	1.04
1:G:179:PRO:CD	1:G:237:ARG:NH1	2.21	1.04
1:G:923:LYS:CB	1:G:940:VAL:HG23	1.87	1.04
1:G:1200:LYS:HD3	1:G:1202:TRP:CE2	1.91	1.04
1:I:473:LEU:HD21	1:I:484:TYR:CZ	1.91	1.04
1:I:597:TRP:CH2	1:I:603:ILE:HD11	1.92	1.04
1:I:1146:ASP:O	1:I:1180:VAL:HG21	1.58	1.04
1:I:1185:PHE:HE1	1:I:1192:LEU:HD11	1.10	1.04
1:K:948:LEU:HD12	1:K:957:ASP:OD2	1.57	1.04
1:K:1200:LYS:HD3	1:K:1202:TRP:CE2	1.91	1.04
1:M:212:PHE:HB3	1:M:226:ARG:HH12	0.94	1.04
1:C:544:PHE:CD1	1:C:576:VAL:CG1	2.40	1.04
1:C:1200:LYS:HD3	1:C:1202:TRP:CE2	1.91	1.04
1:G:1146:ASP:O	1:G:1180:VAL:HG21	1.58	1.04
1:I:179:PRO:CD	1:I:237:ARG:NH1	2.21	1.04
1:I:212:PHE:HB3	1:I:226:ARG:HH12	0.93	1.04
1:K:1146:ASP:O	1:K:1180:VAL:HG21	1.58	1.04
1:M:923:LYS:CB	1:M:940:VAL:HG23	1.87	1.04
1:M:931:GLN:O	1:M:932:GLU:HB2	1.58	1.04
1:C:529:TYR:O	1:C:532:ILE:HG23	1.54	1.04
1:I:931:GLN:O	1:I:932:GLU:HB2	1.58	1.04
1:K:179:PRO:CD	1:K:237:ARG:NH1	2.21	1.04
1:K:597:TRP:CH2	1:K:603:ILE:HD11	1.92	1.04
1:K:923:LYS:CB	1:K:940:VAL:HG23	1.87	1.04
1:A:179:PRO:CD	1:A:237:ARG:NH1	2.21	1.03
1:A:881:HIS:CE1	1:A:901:SER:HB3	1.93	1.03
1:A:1146:ASP:O	1:A:1180:VAL:HG21	1.58	1.03
1:C:639:LEU:HD21	1:C:653:ILE:HD12	1.38	1.03
1:E:639:LEU:HD21	1:E:653:ILE:HD12	1.38	1.03
1:G:212:PHE:HB3	1:G:226:ARG:NH1	1.72	1.03
1:G:931:GLN:O	1:G:932:GLU:HB2	1.58	1.03
1:G:1200:LYS:HD3	1:G:1202:TRP:CZ2	1.92	1.03
1:I:122:ARG:NH2	1:I:126:PHE:CZ	2.27	1.03
1:I:923:LYS:CB	1:I:940:VAL:HG23	1.87	1.03
1:I:948:LEU:HD12	1:I:957:ASP:OD2	1.57	1.03
1:C:453:LEU:HD11	1:C:454:GLN:HE21	1.14	1.03
1:C:881:HIS:CE1	1:C:901:SER:HB3	1.93	1.03
1:C:948:LEU:HD12	1:C:957:ASP:OD2	1.57	1.03
1:E:298:PHE:HE2	1:E:325:SER:HA	1.16	1.03
1:E:1200:LYS:HD3	1:E:1202:TRP:CZ2	1.92	1.03
1:K:212:PHE:HB3	1:K:226:ARG:NH1	1.72	1.03

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:1200:LYS:HD3	1:K:1202:TRP:CZ2	1.92	1.03
1:M:881:HIS:CE1	1:M:901:SER:HB3	1.93	1.03
1:A:923:LYS:CB	1:A:940:VAL:HG23	1.87	1.03
1:C:212:PHE:HB3	1:C:226:ARG:NH1	1.72	1.03
1:C:1200:LYS:HD3	1:C:1202:TRP:CZ2	1.92	1.03
1:E:529:TYR:O	1:E:532:ILE:HG23	1.54	1.03
1:E:1146:ASP:O	1:E:1180:VAL:HG21	1.58	1.03
1:K:419:VAL:HG11	1:K:426:CYS:SG	1.99	1.03
1:K:931:GLN:O	1:K:932:GLU:HB2	1.58	1.03
1:M:544:PHE:CD1	1:M:576:VAL:CG1	2.40	1.03
1:M:1200:LYS:HD3	1:M:1202:TRP:CZ2	1.92	1.03
1:A:544:PHE:CD1	1:A:576:VAL:CG1	2.40	1.03
1:A:1200:LYS:HD3	1:A:1202:TRP:CZ2	1.92	1.03
1:E:122:ARG:NH2	1:E:126:PHE:CZ	2.27	1.03
1:E:212:PHE:HB3	1:E:226:ARG:NH1	1.72	1.03
1:E:419:VAL:HG11	1:E:426:CYS:SG	1.99	1.03
1:G:419:VAL:HG11	1:G:426:CYS:SG	1.99	1.03
1:G:656:HIS:CE1	1:G:676:SER:HB3	1.94	1.03
1:G:948:LEU:HD12	1:G:957:ASP:OD2	1.57	1.03
1:I:212:PHE:HB3	1:I:226:ARG:NH1	1.72	1.03
1:I:656:HIS:CE1	1:I:676:SER:HB3	1.94	1.03
1:I:658:ASP:OD2	1:I:677:VAL:HB	1.59	1.03
1:K:298:PHE:HE2	1:K:325:SER:HA	1.16	1.03
1:K:544:PHE:CD1	1:K:576:VAL:CG1	2.40	1.03
1:M:122:ARG:NH2	1:M:126:PHE:CZ	2.27	1.03
1:M:597:TRP:CH2	1:M:603:ILE:HD11	1.92	1.03
1:M:862:TYR:CE1	1:M:881:HIS:CB	2.42	1.03
1:A:419:VAL:HG11	1:A:426:CYS:SG	1.99	1.03
1:G:298:PHE:HE2	1:G:325:SER:HA	1.16	1.03
1:K:122:ARG:NH2	1:K:126:PHE:CZ	2.27	1.03
1:K:656:HIS:CE1	1:K:676:SER:HB3	1.94	1.03
1:M:656:HIS:CE1	1:M:676:SER:HB3	1.94	1.03
1:M:948:LEU:HD12	1:M:957:ASP:OD2	1.57	1.03
1:E:881:HIS:CE1	1:E:901:SER:HB3	1.93	1.02
1:M:419:VAL:HG11	1:M:426:CYS:SG	1.99	1.02
1:C:656:HIS:CE1	1:C:676:SER:HB3	1.94	1.02
1:C:658:ASP:OD2	1:C:677:VAL:HB	1.59	1.02
1:C:1146:ASP:O	1:C:1180:VAL:HG21	1.58	1.02
1:E:658:ASP:OD2	1:E:677:VAL:HB	1.59	1.02
1:G:639:LEU:HD21	1:G:653:ILE:HD12	1.38	1.02
1:K:315:LYS:O	1:K:318:LYS:HE3	1.59	1.02

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:881:HIS:CE1	1:K:901:SER:HB3	1.94	1.02
1:M:658:ASP:OD2	1:M:677:VAL:HB	1.59	1.02
1:C:419:VAL:HG11	1:C:426:CYS:SG	1.99	1.02
1:G:122:ARG:NH2	1:G:126:PHE:CZ	2.27	1.02
1:G:1194:SER:CB	1:G:1202:TRP:CZ3	2.43	1.02
1:I:419:VAL:HG11	1:I:426:CYS:SG	1.99	1.02
1:K:862:TYR:CE1	1:K:881:HIS:CB	2.42	1.02
1:A:315:LYS:O	1:A:318:LYS:HE3	1.59	1.02
1:A:1220:LEU:HD23	1:A:1234:THR:OG1	1.60	1.02
1:I:1194:SER:CB	1:I:1202:TRP:CZ3	2.43	1.02
1:K:639:LEU:HD21	1:K:653:ILE:HD12	1.38	1.02
1:K:658:ASP:OD2	1:K:677:VAL:HB	1.59	1.02
1:A:639:LEU:HD21	1:A:653:ILE:HD12	1.38	1.02
1:C:122:ARG:NH2	1:C:126:PHE:CZ	2.27	1.02
1:C:298:PHE:HE2	1:C:325:SER:HA	1.16	1.02
1:G:315:LYS:O	1:G:318:LYS:HE3	1.59	1.02
1:I:881:HIS:CE1	1:I:901:SER:HB3	1.93	1.02
1:I:1149:GLY:HA2	1:I:1180:VAL:HG22	1.02	1.02
1:I:1220:LEU:HD23	1:I:1234:THR:OG1	1.60	1.02
1:M:179:PRO:CD	1:M:237:ARG:NH1	2.21	1.02
1:M:639:LEU:HD21	1:M:653:ILE:HD12	1.38	1.02
1:A:658:ASP:OD2	1:A:677:VAL:HB	1.59	1.01
1:E:1194:SER:CB	1:E:1202:TRP:CZ3	2.43	1.01
1:K:1149:GLY:HA2	1:K:1180:VAL:HG22	1.02	1.01
1:K:1194:SER:CB	1:K:1202:TRP:CZ3	2.43	1.01
1:M:1185:PHE:HE1	1:M:1192:LEU:HD11	1.10	1.01
1:A:1194:SER:CB	1:A:1202:TRP:CZ3	2.43	1.01
1:C:931:GLN:O	1:C:932:GLU:HB2	1.58	1.01
1:C:1194:SER:CB	1:C:1202:TRP:CZ3	2.43	1.01
1:E:656:HIS:CE1	1:E:676:SER:HB3	1.94	1.01
1:E:1185:PHE:HE1	1:E:1192:LEU:HD11	1.10	1.01
1:G:881:HIS:CE1	1:G:901:SER:HB3	1.93	1.01
1:G:882:LEU:HB3	1:G:1237:ASN:ND2	1.76	1.01
1:I:544:PHE:CD1	1:I:576:VAL:CG1	2.40	1.01
1:A:122:ARG:NH2	1:A:126:PHE:CZ	2.27	1.01
1:C:597:TRP:HH2	1:C:603:ILE:HD11	1.22	1.01
1:I:862:TYR:H	1:I:884:TRP:CD1	1.79	1.01
1:K:882:LEU:HB3	1:K:1237:ASN:ND2	1.76	1.01
2:L:17:CYS:SG	5:L:201:HEM:CBC	2.49	1.01
1:A:137:GLN:HG2	1:A:173:LEU:HD22	1.42	1.01
1:E:862:TYR:CE1	1:E:881:HIS:CB	2.42	1.01

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1149:GLY:HA2	1:G:1180:VAL:HG22	1.02	1.01
2:H:17:CYS:SG	5:H:201:HEM:CBC	2.49	1.01
1:M:1146:ASP:O	1:M:1180:VAL:HG21	1.58	1.01
1:A:862:TYR:H	1:A:884:TRP:CD1	1.79	1.01
1:C:225:ASP:O	1:C:229:ILE:HG13	1.61	1.01
1:E:315:LYS:O	1:E:318:LYS:HE3	1.59	1.01
1:G:862:TYR:H	1:G:884:TRP:CD1	1.79	1.01
1:G:1220:LEU:HD23	1:G:1234:THR:OG1	1.60	1.01
1:M:315:LYS:O	1:M:318:LYS:HE3	1.59	1.01
1:M:862:TYR:H	1:M:884:TRP:CD1	1.79	1.01
1:M:1194:SER:CB	1:M:1202:TRP:CZ3	2.43	1.01
1:E:903:ASP:O	1:E:1175:THR:HG22	1.61	1.00
1:G:225:ASP:O	1:G:229:ILE:HG13	1.61	1.00
1:A:656:HIS:CE1	1:A:676:SER:HB3	1.94	1.00
1:C:862:TYR:CE1	1:C:881:HIS:CB	2.42	1.00
1:E:862:TYR:H	1:E:884:TRP:CD1	1.79	1.00
1:E:931:GLN:O	1:E:932:GLU:HB2	1.58	1.00
1:G:137:GLN:HG2	1:G:173:LEU:HD22	1.42	1.00
1:I:137:GLN:HG2	1:I:173:LEU:HD22	1.42	1.00
1:I:315:LYS:O	1:I:318:LYS:HE3	1.59	1.00
1:I:639:LEU:HD21	1:I:653:ILE:HD12	1.38	1.00
1:I:882:LEU:HB3	1:I:1237:ASN:ND2	1.76	1.00
1:M:1149:GLY:HA2	1:M:1180:VAL:HG22	1.02	1.00
1:M:1220:LEU:HD23	1:M:1234:THR:OG1	1.60	1.00
2:N:17:CYS:SG	5:N:201:HEM:CBC	2.49	1.00
1:A:882:LEU:HB3	1:A:1237:ASN:ND2	1.75	1.00
1:C:315:LYS:O	1:C:318:LYS:HE3	1.59	1.00
1:C:882:LEU:HB3	1:C:1237:ASN:ND2	1.76	1.00
1:C:1220:LEU:HD23	1:C:1234:THR:OG1	1.60	1.00
1:E:229:ILE:HG22	1:E:233:ARG:HD3	1.43	1.00
1:E:882:LEU:HB3	1:E:1237:ASN:ND2	1.76	1.00
1:G:658:ASP:OD2	1:G:677:VAL:HB	1.59	1.00
1:G:903:ASP:O	1:G:1175:THR:HG22	1.61	1.00
1:M:225:ASP:O	1:M:229:ILE:HG13	1.61	1.00
1:M:294:ILE:HG21	1:M:324:VAL:HG11	1.44	1.00
1:M:903:ASP:O	1:M:1175:THR:HG22	1.61	1.00
1:C:903:ASP:O	1:C:1175:THR:HG22	1.61	1.00
2:D:17:CYS:SG	5:D:201:HEM:CBC	2.49	1.00
2:F:17:CYS:SG	5:F:201:HEM:CBC	2.49	1.00
1:K:862:TYR:H	1:K:884:TRP:CD1	1.79	1.00
1:A:298:PHE:HE2	1:A:325:SER:HA	1.16	1.00

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:294:ILE:HG21	1:A:324:VAL:HG11	1.43	1.00
1:A:1185:PHE:HE1	1:A:1192:LEU:CG	1.73	1.00
1:C:137:GLN:HG2	1:C:173:LEU:HD22	1.42	1.00
1:G:229:ILE:HG22	1:G:233:ARG:HD3	1.42	1.00
1:A:1149:GLY:HA2	1:A:1180:VAL:HG22	1.02	0.99
1:C:862:TYR:H	1:C:884:TRP:CD1	1.79	0.99
1:E:1220:LEU:HD23	1:E:1234:THR:OG1	1.60	0.99
2:J:17:CYS:SG	5:J:201:HEM:CBC	2.49	0.99
1:C:229:ILE:HG22	1:C:233:ARG:HD3	1.42	0.99
1:E:171:HIS:HD2	1:E:175:GLU:HB2	1.25	0.99
1:K:225:ASP:O	1:K:229:ILE:HG13	1.61	0.99
1:M:137:GLN:HG2	1:M:173:LEU:HD22	1.42	0.99
1:E:1149:GLY:HA2	1:E:1180:VAL:HG22	1.02	0.99
1:G:862:TYR:CE1	1:G:881:HIS:CB	2.42	0.99
1:I:1185:PHE:HE1	1:I:1192:LEU:CG	1.73	0.99
1:K:903:ASP:O	1:K:1175:THR:HG22	1.61	0.99
1:A:229:ILE:HG22	1:A:233:ARG:HD3	1.43	0.99
1:E:225:ASP:O	1:E:229:ILE:HG13	1.61	0.99
1:E:1194:SER:HB2	1:E:1202:TRP:CZ3	1.98	0.99
1:G:544:PHE:CD1	1:G:576:VAL:CG1	2.40	0.99
1:A:1194:SER:HB2	1:A:1202:TRP:CZ3	1.98	0.99
5:B:201:HEM:HBC2	5:B:201:HEM:HMC1	1.44	0.99
1:I:903:ASP:O	1:I:1175:THR:HG22	1.61	0.99
1:K:239:LEU:HD12	1:K:240:LEU:N	1.78	0.99
1:C:1149:GLY:HA2	1:C:1180:VAL:HG22	1.02	0.99
1:G:239:LEU:HD12	1:G:240:LEU:N	1.78	0.99
1:M:902:ASP:CG	2:N:72:LYS:HZ2	1.71	0.99
1:C:902:ASP:CG	2:D:72:LYS:HZ2	1.71	0.99
1:K:902:ASP:CG	2:L:72:LYS:HZ2	1.70	0.99
1:M:158:CYS:HG	1:M:284:SER:HB2	0.87	0.99
1:M:882:LEU:HB3	1:M:1237:ASN:ND2	1.76	0.99
5:N:201:HEM:HBC2	5:N:201:HEM:HMC1	1.44	0.99
1:K:1185:PHE:HE1	1:K:1192:LEU:CG	1.73	0.98
1:A:903:ASP:O	1:A:1175:THR:HG22	1.61	0.98
2:B:17:CYS:SG	5:B:201:HEM:CBC	2.49	0.98
1:I:239:LEU:HD12	1:I:240:LEU:N	1.78	0.98
1:K:294:ILE:HG21	1:K:324:VAL:HG11	1.44	0.98
1:K:1220:LEU:HD23	1:K:1234:THR:OG1	1.60	0.98
1:A:614:HIS:CE1	1:A:640:GLN:CG	2.47	0.98
1:K:1194:SER:HB2	1:K:1202:TRP:CZ3	1.98	0.98
1:A:1233:VAL:HG11	1:A:1243:ILE:HG12	1.46	0.98

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:923:LYS:HB2	1:C:940:VAL:CG2	1.94	0.98
1:E:239:LEU:HD12	1:E:240:LEU:N	1.78	0.98
1:E:902:ASP:CG	2:F:72:LYS:HZ2	1.70	0.98
1:I:473:LEU:HD11	1:I:480:CYS:CB	1.93	0.98
1:A:862:TYR:HB2	1:A:884:TRP:HA	1.46	0.98
1:E:137:GLN:HG2	1:E:173:LEU:HD22	1.42	0.98
1:E:923:LYS:HB2	1:E:940:VAL:CG2	1.94	0.98
1:G:902:ASP:CG	2:H:72:LYS:HZ2	1.72	0.98
1:I:882:LEU:HD22	1:I:882:LEU:N	1.78	0.98
1:K:137:GLN:HG2	1:K:173:LEU:HD22	1.42	0.98
1:K:229:ILE:HG22	1:K:233:ARG:HD3	1.43	0.98
5:L:201:HEM:HBC2	5:L:201:HEM:HMC1	1.44	0.98
1:A:597:TRP:HH2	1:A:603:ILE:HD11	1.22	0.98
1:A:923:LYS:HB2	1:A:940:VAL:CG2	1.94	0.98
1:E:520:ALA:CB	1:E:648:GLU:HB2	1.94	0.98
1:E:614:HIS:CE1	1:E:640:GLN:CG	2.47	0.98
1:G:520:ALA:CB	1:G:648:GLU:HB2	1.94	0.98
1:I:1194:SER:HB2	1:I:1202:TRP:CZ3	1.98	0.98
1:K:882:LEU:HD22	1:K:882:LEU:N	1.78	0.98
1:M:229:ILE:HG22	1:M:233:ARG:HD3	1.42	0.98
1:M:862:TYR:HB2	1:M:884:TRP:HA	1.46	0.98
1:A:225:ASP:O	1:A:229:ILE:HG13	1.61	0.98
1:A:902:ASP:CG	2:B:72:LYS:HZ2	1.70	0.98
5:D:201:HEM:HBC2	5:D:201:HEM:HMC1	1.44	0.98
1:G:473:LEU:HD11	1:G:480:CYS:CB	1.93	0.98
1:K:862:TYR:HB2	1:K:884:TRP:HA	1.46	0.98
1:M:614:HIS:CE1	1:M:640:GLN:CG	2.47	0.98
1:A:473:LEU:HD11	1:A:480:CYS:CB	1.93	0.98
1:C:1233:VAL:HG11	1:C:1243:ILE:HG12	1.46	0.98
1:M:1220:LEU:H	1:M:1220:LEU:CD1	1.77	0.98
1:A:862:TYR:CE1	1:A:881:HIS:CB	2.42	0.97
1:E:1220:LEU:H	1:E:1220:LEU:CD1	1.77	0.97
1:I:225:ASP:O	1:I:229:ILE:HG13	1.61	0.97
1:I:902:ASP:CG	2:J:72:LYS:HZ2	1.71	0.97
1:M:1194:SER:HB2	1:M:1202:TRP:CZ3	1.98	0.97
1:M:1233:VAL:HG11	1:M:1243:ILE:HG12	1.46	0.97
1:C:473:LEU:HD11	1:C:480:CYS:CB	1.93	0.97
1:C:614:HIS:CE1	1:C:640:GLN:CG	2.47	0.97
1:C:862:TYR:HB2	1:C:884:TRP:HA	1.46	0.97
1:I:1220:LEU:H	1:I:1220:LEU:CD1	1.77	0.97
1:K:1233:VAL:HG11	1:K:1243:ILE:HG12	1.46	0.97

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:882:LEU:HD22	1:G:882:LEU:N	1.78	0.97
5:J:201:HEM:HBC2	5:J:201:HEM:HMC1	1.44	0.97
1:A:212:PHE:CB	1:A:226:ARG:HH12	1.78	0.97
1:G:614:HIS:CE1	1:G:640:GLN:CG	2.47	0.97
1:I:520:ALA:CB	1:I:648:GLU:HB2	1.94	0.97
1:C:239:LEU:HD12	1:C:240:LEU:N	1.78	0.97
1:I:614:HIS:CE1	1:I:640:GLN:CG	2.47	0.97
1:K:1171:GLU:HG3	1:K:1172:GLY:H	1.30	0.97
1:C:520:ALA:CB	1:C:648:GLU:HB2	1.93	0.97
1:G:1194:SER:HB2	1:G:1202:TRP:CZ3	1.98	0.97
1:I:862:TYR:HB2	1:I:884:TRP:HA	1.46	0.97
1:I:984:ALA:HA	1:I:999:ARG:O	1.65	0.97
1:K:473:LEU:HD11	1:K:480:CYS:CB	1.93	0.97
1:K:614:HIS:CE1	1:K:640:GLN:CG	2.47	0.97
1:M:212:PHE:CB	1:M:226:ARG:HH12	1.78	0.97
1:C:1194:SER:HB2	1:C:1202:TRP:CZ3	1.98	0.97
1:G:923:LYS:HB2	1:G:940:VAL:CG2	1.94	0.97
1:G:1213:PHE:O	1:G:1214:TYR:HB2	1.64	0.97
1:M:1171:GLU:HG3	1:M:1172:GLY:H	1.30	0.97
1:C:294:ILE:HG21	1:C:324:VAL:HG11	1.43	0.97
1:C:409:GLU:HG3	1:E:340:TYR:OH	1.65	0.97
1:E:409:GLU:HG3	1:G:340:TYR:OH	1.65	0.97
1:E:984:ALA:HA	1:E:999:ARG:O	1.65	0.97
1:G:212:PHE:CB	1:G:226:ARG:HH12	1.78	0.97
1:G:294:ILE:HG21	1:G:324:VAL:HG11	1.44	0.97
5:H:201:HEM:HBC2	5:H:201:HEM:HMC1	1.44	0.97
1:K:614:HIS:CE1	1:K:640:GLN:HG2	2.00	0.97
1:M:614:HIS:CE1	1:M:640:GLN:HG2	2.00	0.97
1:M:882:LEU:HD22	1:M:882:LEU:N	1.78	0.97
1:A:409:GLU:HG3	1:C:340:TYR:OH	1.65	0.97
1:C:1220:LEU:H	1:C:1220:LEU:CD1	1.77	0.97
1:G:409:GLU:HG3	1:I:340:TYR:OH	1.65	0.97
1:G:984:ALA:HA	1:G:999:ARG:O	1.65	0.97
1:I:1171:GLU:HG3	1:I:1172:GLY:H	1.30	0.97
1:K:597:TRP:HH2	1:K:603:ILE:HD11	1.22	0.97
1:M:473:LEU:HD11	1:M:480:CYS:CB	1.93	0.97
1:M:923:LYS:HB2	1:M:940:VAL:CG2	1.94	0.97
1:A:239:LEU:HD12	1:A:240:LEU:N	1.78	0.96
5:F:201:HEM:HBC2	5:F:201:HEM:HMC1	1.44	0.96
1:I:1233:VAL:HG11	1:I:1243:ILE:HG12	1.46	0.96
1:M:239:LEU:HD12	1:M:240:LEU:N	1.78	0.96

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1220:LEU:H	1:A:1220:LEU:CD1	1.77	0.96
1:C:212:PHE:CB	1:C:226:ARG:HH12	1.78	0.96
1:G:1185:PHE:HE1	1:G:1192:LEU:CG	1.73	0.96
1:I:409:GLU:HG3	1:K:340:TYR:OH	1.65	0.96
1:A:1171:GLU:HG3	1:A:1172:GLY:H	1.30	0.96
1:E:359:TYR:HD1	1:E:360:ASP:N	1.63	0.96
1:E:561:PRO:HB3	1:E:1214:TYR:CD2	2.01	0.96
1:E:1185:PHE:HE1	1:E:1192:LEU:CG	1.73	0.96
1:G:1220:LEU:H	1:G:1220:LEU:CD1	1.77	0.96
1:I:614:HIS:CE1	1:I:640:GLN:HG2	2.00	0.96
1:K:212:PHE:CB	1:K:226:ARG:HH12	1.78	0.96
1:K:984:ALA:HA	1:K:999:ARG:O	1.65	0.96
1:A:614:HIS:CE1	1:A:640:GLN:HG2	2.00	0.96
1:I:359:TYR:HD1	1:I:360:ASP:N	1.64	0.96
1:M:984:ALA:HA	1:M:999:ARG:O	1.65	0.96
1:M:1185:PHE:HE1	1:M:1192:LEU:CG	1.73	0.96
1:C:1171:GLU:HG3	1:C:1172:GLY:H	1.30	0.96
1:I:1213:PHE:O	1:I:1214:TYR:HB2	1.64	0.96
1:A:340:TYR:OH	1:M:409:GLU:HG3	1.65	0.96
1:G:1171:GLU:HG3	1:G:1172:GLY:H	1.30	0.96
1:I:212:PHE:CB	1:I:226:ARG:HH12	1.78	0.96
1:I:597:TRP:HH2	1:I:603:ILE:HD11	1.22	0.96
1:A:984:ALA:HA	1:A:999:ARG:O	1.65	0.96
1:E:1213:PHE:O	1:E:1214:TYR:HB2	1.64	0.96
1:G:614:HIS:CE1	1:G:640:GLN:HG2	2.00	0.96
1:I:229:ILE:HG22	1:I:233:ARG:HD3	1.42	0.96
1:I:879:ARG:HB3	1:I:921:MET:HE2	1.47	0.96
1:K:1220:LEU:H	1:K:1220:LEU:CD1	1.77	0.96
1:M:561:PRO:HB3	1:M:1214:TYR:CD2	2.01	0.96
1:C:146:GLU:HG3	1:E:111:ARG:NH1	1.81	0.96
1:C:561:PRO:HB3	1:C:1214:TYR:CD2	2.01	0.96
1:E:882:LEU:HD22	1:E:882:LEU:N	1.78	0.96
1:E:1171:GLU:HG3	1:E:1172:GLY:H	1.30	0.96
1:G:146:GLU:HG3	1:I:111:ARG:NH1	1.81	0.96
1:G:1149:GLY:CA	1:G:1180:VAL:HG22	1.96	0.96
1:M:597:TRP:HH2	1:M:603:ILE:HD11	1.22	0.96
1:M:1149:GLY:CA	1:M:1180:VAL:HG22	1.96	0.96
1:A:146:GLU:HG3	1:C:111:ARG:NH1	1.81	0.96
1:A:520:ALA:CB	1:A:648:GLU:HB2	1.93	0.96
1:A:882:LEU:HD22	1:A:882:LEU:N	1.78	0.96
1:C:1194:SER:CB	1:C:1202:TRP:HZ3	1.79	0.96

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:294:ILE:HG21	1:E:324:VAL:HG11	1.43	0.96
1:E:473:LEU:HD11	1:E:480:CYS:CB	1.93	0.96
1:E:879:ARG:HB3	1:E:921:MET:HE2	1.48	0.96
1:I:294:ILE:HG21	1:I:324:VAL:HG11	1.44	0.96
1:I:862:TYR:CE1	1:I:881:HIS:CB	2.42	0.96
1:I:923:LYS:HB2	1:I:940:VAL:CG2	1.94	0.96
1:I:1220:LEU:HD12	1:I:1220:LEU:N	1.81	0.96
1:K:520:ALA:CB	1:K:648:GLU:HB2	1.94	0.96
1:C:158:CYS:HG	1:C:284:SER:HB2	1.18	0.96
1:C:614:HIS:CE1	1:C:640:GLN:HG2	2.00	0.96
1:G:875:VAL:HG11	1:G:915:CYS:SG	2.06	0.96
1:I:875:VAL:HG11	1:I:915:CYS:SG	2.06	0.96
1:I:1149:GLY:CA	1:I:1180:VAL:HG22	1.96	0.96
1:K:875:VAL:HG11	1:K:915:CYS:SG	2.06	0.96
1:M:520:ALA:CB	1:M:648:GLU:HB2	1.94	0.96
1:A:477:GLN:HA	1:A:477:GLN:HE21	1.31	0.95
1:A:561:PRO:HB3	1:A:1214:TYR:CD2	2.01	0.95
1:C:1185:PHE:HE1	1:C:1192:LEU:CG	1.73	0.95
1:E:477:GLN:HE21	1:E:477:GLN:HA	1.31	0.95
1:I:928:VAL:HG12	1:I:937:VAL:HA	1.48	0.95
1:K:1149:GLY:CA	1:K:1180:VAL:HG22	1.96	0.95
1:A:879:ARG:HB3	1:A:921:MET:HE2	1.47	0.95
1:E:862:TYR:HB2	1:E:884:TRP:HA	1.46	0.95
1:E:1194:SER:CB	1:E:1202:TRP:HZ3	1.79	0.95
1:E:1233:VAL:HG11	1:E:1243:ILE:HG12	1.46	0.95
1:G:597:TRP:HH2	1:G:603:ILE:HD11	1.22	0.95
1:G:928:VAL:HG12	1:G:937:VAL:HA	1.48	0.95
1:G:1220:LEU:HD12	1:G:1220:LEU:N	1.81	0.95
1:G:1233:VAL:HG11	1:G:1243:ILE:HG12	1.46	0.95
1:I:146:GLU:HG3	1:K:111:ARG:HH12	1.32	0.95
1:K:409:GLU:HG3	1:M:340:TYR:OH	1.65	0.95
1:A:111:ARG:NH1	1:M:146:GLU:HG3	1.81	0.95
1:C:984:ALA:HA	1:C:999:ARG:O	1.65	0.95
1:E:212:PHE:CB	1:E:226:ARG:HH12	1.78	0.95
1:I:876:ALA:HB3	1:I:914:VAL:O	1.66	0.95
1:A:928:VAL:HG12	1:A:937:VAL:HA	1.48	0.95
1:E:614:HIS:CE1	1:E:640:GLN:HG2	2.00	0.95
1:C:882:LEU:HD22	1:C:882:LEU:N	1.78	0.95
1:E:597:TRP:HH2	1:E:603:ILE:HD11	1.22	0.95
1:K:876:ALA:HB3	1:K:914:VAL:O	1.66	0.95
1:M:1220:LEU:HD12	1:M:1220:LEU:N	1.81	0.95

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:875:VAL:HG11	1:E:915:CYS:SG	2.06	0.95
1:G:561:PRO:HB3	1:G:1214:TYR:CD2	2.01	0.95
1:K:879:ARG:HB3	1:K:921:MET:HE2	1.47	0.95
1:A:137:GLN:CG	1:A:173:LEU:HD22	1.96	0.95
1:A:146:GLU:HG3	1:C:111:ARG:HH12	1.32	0.95
1:E:146:GLU:HG3	1:G:111:ARG:HH12	1.32	0.95
1:G:876:ALA:HB3	1:G:914:VAL:O	1.66	0.95
1:K:146:GLU:HG3	1:M:111:ARG:NH1	1.81	0.95
1:M:137:GLN:CG	1:M:173:LEU:HD22	1.96	0.95
1:A:359:TYR:HD1	1:A:360:ASP:N	1.63	0.95
1:G:879:ARG:HB3	1:G:921:MET:HE2	1.47	0.95
1:K:923:LYS:HB2	1:K:940:VAL:CG2	1.94	0.95
1:M:875:VAL:HG11	1:M:915:CYS:SG	2.06	0.95
1:C:477:GLN:HA	1:C:477:GLN:HE21	1.31	0.95
1:E:999:ARG:HD3	1:E:1030:TRP:NE1	1.82	0.95
1:G:359:TYR:HD1	1:G:360:ASP:N	1.63	0.95
1:I:561:PRO:HB3	1:I:1214:TYR:CD2	2.01	0.95
1:K:359:TYR:HD1	1:K:360:ASP:N	1.63	0.95
1:M:928:VAL:HG12	1:M:937:VAL:HA	1.48	0.95
1:M:1213:PHE:O	1:M:1214:TYR:HB2	1.64	0.95
1:C:879:ARG:HB3	1:C:921:MET:HE2	1.48	0.95
1:C:999:ARG:HD3	1:C:1030:TRP:NE1	1.82	0.95
1:G:171:HIS:HD2	1:G:175:GLU:HB2	1.25	0.95
1:K:561:PRO:HB3	1:K:1214:TYR:CD2	2.01	0.95
1:K:999:ARG:HD3	1:K:1030:TRP:NE1	1.82	0.95
1:M:359:TYR:HD1	1:M:360:ASP:N	1.63	0.95
1:C:137:GLN:CG	1:C:173:LEU:HD22	1.96	0.94
1:C:876:ALA:HB3	1:C:914:VAL:O	1.66	0.94
1:K:137:GLN:CG	1:K:173:LEU:HD22	1.96	0.94
1:E:137:GLN:CG	1:E:173:LEU:HD22	1.96	0.94
1:I:171:HIS:HD2	1:I:175:GLU:HB2	1.25	0.94
1:K:1220:LEU:HD12	1:K:1220:LEU:N	1.81	0.94
1:M:558:GLN:HB3	1:M:559:PRO:HD3	1.48	0.94
2:B:14:CYS:SG	5:B:201:HEM:CBB	2.56	0.94
1:C:171:HIS:HD2	1:C:175:GLU:HB2	1.25	0.94
1:C:875:VAL:HG11	1:C:915:CYS:SG	2.06	0.94
1:E:146:GLU:HG3	1:G:111:ARG:NH1	1.81	0.94
1:M:876:ALA:HB3	1:M:914:VAL:O	1.66	0.94
1:A:394:LYS:HB3	1:A:434:ARG:CB	1.98	0.94
1:C:525:GLU:O	1:C:528:GLU:HG3	1.67	0.94
2:D:14:CYS:SG	5:D:201:HEM:CBB	2.56	0.94

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:477:GLN:HA	1:G:477:GLN:HE21	1.31	0.94
1:I:999:ARG:HD3	1:I:1030:TRP:NE1	1.82	0.94
1:A:875:VAL:HG11	1:A:915:CYS:SG	2.06	0.94
1:C:230:LEU:CD2	1:C:234:LYS:HG3	1.98	0.94
1:E:876:ALA:HB3	1:E:914:VAL:O	1.66	0.94
1:E:928:VAL:HG12	1:E:937:VAL:HA	1.48	0.94
1:G:862:TYR:HB2	1:G:884:TRP:HA	1.46	0.94
1:I:431:LYS:HZ3	1:K:336:ASN:HB3	1.32	0.94
1:K:639:LEU:H	1:K:653:ILE:CG2	1.81	0.94
1:M:394:LYS:HB3	1:M:434:ARG:CB	1.98	0.94
1:M:639:LEU:H	1:M:653:ILE:CG2	1.81	0.94
1:A:111:ARG:HH12	1:M:146:GLU:HG3	1.32	0.94
1:A:525:GLU:O	1:A:528:GLU:HG3	1.67	0.94
1:A:558:GLN:HB3	1:A:559:PRO:HD3	1.48	0.94
1:A:1213:PHE:O	1:A:1214:TYR:HB2	1.64	0.94
1:G:137:GLN:CG	1:G:173:LEU:HD22	1.96	0.94
2:H:14:CYS:SG	5:H:201:HEM:CBB	2.56	0.94
1:K:477:GLN:HA	1:K:477:GLN:HE21	1.31	0.94
1:A:230:LEU:CD2	1:A:234:LYS:HG3	1.98	0.94
1:A:999:ARG:HD3	1:A:1030:TRP:NE1	1.82	0.94
1:C:359:TYR:HD1	1:C:360:ASP:N	1.64	0.94
1:C:639:LEU:H	1:C:653:ILE:CG2	1.81	0.94
1:C:1220:LEU:HD12	1:C:1220:LEU:N	1.81	0.94
1:G:1194:SER:CB	1:G:1202:TRP:HZ3	1.79	0.94
1:I:137:GLN:CG	1:I:173:LEU:HD22	1.96	0.94
1:I:657:GLU:HG2	1:I:680:LYS:NZ	1.83	0.94
2:J:14:CYS:SG	5:J:201:HEM:CBB	2.56	0.94
1:M:999:ARG:HD3	1:M:1030:TRP:NE1	1.82	0.94
1:A:876:ALA:HB3	1:A:914:VAL:O	1.66	0.94
1:C:1213:PHE:O	1:C:1214:TYR:HB2	1.64	0.94
1:E:525:GLU:O	1:E:528:GLU:HG3	1.67	0.94
1:E:639:LEU:H	1:E:653:ILE:CG2	1.81	0.94
1:I:558:GLN:HB3	1:I:559:PRO:HD3	1.48	0.94
1:I:639:LEU:H	1:I:653:ILE:CG2	1.81	0.94
1:C:359:TYR:CD1	1:C:360:ASP:N	2.36	0.94
1:E:230:LEU:CD2	1:E:234:LYS:HG3	1.98	0.94
1:G:230:LEU:CD2	1:G:234:LYS:HG3	1.97	0.94
1:I:146:GLU:HG3	1:K:111:ARG:NH1	1.81	0.94
1:C:394:LYS:HB3	1:C:434:ARG:CB	1.98	0.93
1:C:928:VAL:HG12	1:C:937:VAL:HA	1.48	0.93
1:I:477:GLN:HA	1:I:477:GLN:HE21	1.31	0.93

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:394:LYS:HB3	1:K:434:ARG:CB	1.98	0.93
1:M:359:TYR:CD1	1:M:360:ASP:N	2.36	0.93
1:M:525:GLU:O	1:M:528:GLU:HG3	1.67	0.93
2:N:14:CYS:SG	5:N:201:HEM:CBB	2.56	0.93
1:A:359:TYR:CD1	1:A:360:ASP:N	2.36	0.93
1:E:1220:LEU:HD12	1:E:1220:LEU:N	1.81	0.93
1:I:496:MET:HE3	1:I:496:MET:HA	1.50	0.93
1:I:525:GLU:O	1:I:528:GLU:HG3	1.67	0.93
1:K:553:HIS:HB2	1:K:610:VAL:HG11	1.51	0.93
1:K:657:GLU:HG2	1:K:680:LYS:NZ	1.83	0.93
1:A:553:HIS:HB2	1:A:610:VAL:HG11	1.50	0.93
1:G:639:LEU:H	1:G:653:ILE:CG2	1.81	0.93
1:I:553:HIS:HB2	1:I:610:VAL:HG11	1.50	0.93
1:K:359:TYR:CD1	1:K:360:ASP:N	2.36	0.93
2:F:14:CYS:SG	5:F:201:HEM:CBB	2.56	0.93
1:G:657:GLU:HG2	1:G:680:LYS:NZ	1.83	0.93
1:K:230:LEU:CD2	1:K:234:LYS:HG3	1.97	0.93
1:K:496:MET:HA	1:K:496:MET:HE3	1.50	0.93
2:L:14:CYS:SG	5:L:201:HEM:CBB	2.56	0.93
1:M:171:HIS:HD2	1:M:175:GLU:HB2	1.25	0.93
1:C:431:LYS:HZ3	1:E:336:ASN:HB3	1.29	0.93
1:I:230:LEU:CD2	1:I:234:LYS:HG3	1.97	0.93
1:K:678:ASP:OD2	1:K:680:LYS:HE3	1.69	0.93
1:K:1213:PHE:O	1:K:1214:TYR:HB2	1.64	0.93
1:M:657:GLU:HG2	1:M:680:LYS:NZ	1.83	0.93
1:G:558:GLN:HB3	1:G:559:PRO:HD3	1.48	0.93
1:A:171:HIS:HD2	1:A:175:GLU:HB2	1.25	0.93
1:C:496:MET:HA	1:C:496:MET:HE3	1.49	0.93
1:E:359:TYR:CD1	1:E:360:ASP:N	2.36	0.93
1:E:394:LYS:HB3	1:E:434:ARG:CB	1.98	0.93
1:G:394:LYS:HB3	1:G:434:ARG:CB	1.98	0.93
1:M:553:HIS:HB2	1:M:610:VAL:HG11	1.50	0.93
1:M:879:ARG:HB3	1:M:921:MET:HE2	1.47	0.93
1:E:657:GLU:HG2	1:E:680:LYS:NZ	1.83	0.93
1:A:639:LEU:H	1:A:653:ILE:CG2	1.81	0.93
1:A:1220:LEU:HD12	1:A:1220:LEU:N	1.81	0.93
1:C:553:HIS:HB2	1:C:610:VAL:HG11	1.50	0.93
1:G:525:GLU:O	1:G:528:GLU:HG3	1.67	0.93
1:I:453:LEU:HA	1:I:456:LEU:CD1	1.99	0.93
1:A:496:MET:HE3	1:A:496:MET:HA	1.50	0.92
1:A:657:GLU:HG2	1:A:680:LYS:NZ	1.83	0.92

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:146:GLU:HG3	1:I:111:ARG:HH12	1.32	0.92
1:G:999:ARG:HD3	1:G:1030:TRP:NE1	1.82	0.92
1:A:1194:SER:CB	1:A:1202:TRP:HZ3	1.79	0.92
1:G:453:LEU:HA	1:G:456:LEU:CD1	1.99	0.92
1:G:496:MET:HA	1:G:496:MET:HE3	1.50	0.92
1:G:678:ASP:OD2	1:G:680:LYS:HE3	1.69	0.92
1:I:394:LYS:HB3	1:I:434:ARG:CB	1.98	0.92
1:I:614:HIS:HE1	1:I:640:GLN:CG	1.83	0.92
1:K:453:LEU:HA	1:K:456:LEU:CD1	1.99	0.92
1:K:473:LEU:CD2	1:K:484:TYR:HE1	1.83	0.92
1:M:230:LEU:CD2	1:M:234:LYS:HG3	1.97	0.92
2:N:18:HIS:HE1	2:N:30:PRO:HD2	1.34	0.92
1:A:158:CYS:HG	1:A:284:SER:HB2	0.90	0.92
2:B:18:HIS:HE1	2:B:30:PRO:HD2	1.34	0.92
1:K:558:GLN:HB3	1:K:559:PRO:HD3	1.48	0.92
1:M:453:LEU:HA	1:M:456:LEU:CD1	1.99	0.92
1:M:678:ASP:OD2	1:M:680:LYS:HE3	1.68	0.92
1:A:595:LEU:CD1	1:A:1201:TRP:HZ2	1.78	0.92
1:K:171:HIS:HD2	1:K:175:GLU:HB2	1.25	0.92
1:C:520:ALA:CB	1:C:648:GLU:HA	1.99	0.92
1:C:657:GLU:HG2	1:C:680:LYS:NZ	1.83	0.92
1:E:496:MET:HA	1:E:496:MET:HE3	1.49	0.92
2:J:18:HIS:HE1	2:J:30:PRO:HD2	1.34	0.92
1:A:111:ARG:NH1	1:M:146:GLU:CG	2.33	0.92
1:C:450:CYS:HA	1:C:453:LEU:HD23	1.52	0.92
1:G:553:HIS:HB2	1:G:610:VAL:HG11	1.50	0.92
1:G:1228:ASP:HB3	1:G:1230:LYS:HG2	1.52	0.92
1:A:450:CYS:HA	1:A:453:LEU:HD23	1.52	0.92
1:E:431:LYS:HZ3	1:G:336:ASN:HB3	1.32	0.92
1:E:520:ALA:CB	1:E:648:GLU:HA	1.99	0.92
1:M:477:GLN:HE21	1:M:477:GLN:HA	1.31	0.92
1:C:146:GLU:HG3	1:E:111:ARG:HH12	1.32	0.91
1:C:928:VAL:HG11	1:C:937:VAL:HG12	1.52	0.91
1:E:453:LEU:HA	1:E:456:LEU:CD1	2.00	0.91
1:E:558:GLN:HB3	1:E:559:PRO:HD3	1.48	0.91
1:E:595:LEU:HD11	1:E:1201:TRP:CH2	2.06	0.91
1:E:928:VAL:HG11	1:E:937:VAL:HG12	1.52	0.91
1:K:525:GLU:O	1:K:528:GLU:HG3	1.67	0.91
1:K:928:VAL:HG12	1:K:937:VAL:HA	1.48	0.91
1:K:928:VAL:HG11	1:K:937:VAL:HG12	1.52	0.91
1:M:496:MET:HA	1:M:496:MET:HE3	1.49	0.91

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:146:GLU:CG	1:C:111:ARG:NH1	2.33	0.91
1:G:146:GLU:CG	1:I:111:ARG:NH1	2.33	0.91
1:K:520:ALA:CB	1:K:648:GLU:HA	1.99	0.91
1:K:597:TRP:HD1	1:K:1243:ILE:O	1.53	0.91
1:K:1228:ASP:HB3	1:K:1230:LYS:HG2	1.52	0.91
1:M:450:CYS:HA	1:M:453:LEU:HD23	1.52	0.91
1:M:928:VAL:HG11	1:M:937:VAL:HG12	1.52	0.91
1:C:1149:GLY:CA	1:C:1180:VAL:HG22	1.96	0.91
1:E:146:GLU:CG	1:G:111:ARG:NH1	2.33	0.91
1:E:553:HIS:HB2	1:E:610:VAL:HG11	1.50	0.91
1:E:678:ASP:OD2	1:E:680:LYS:HE3	1.68	0.91
1:G:595:LEU:HD11	1:G:1201:TRP:CH2	2.06	0.91
2:H:18:HIS:HE1	2:H:30:PRO:HD2	1.34	0.91
1:I:1185:PHE:O	1:I:1229:PHE:CZ	2.24	0.91
1:I:1194:SER:CB	1:I:1202:TRP:HZ3	1.79	0.91
1:C:558:GLN:HB3	1:C:559:PRO:HD3	1.48	0.91
1:C:595:LEU:HD11	1:C:1201:TRP:CH2	2.06	0.91
1:G:1187:PRO:HG3	1:G:1229:PHE:CG	2.06	0.91
1:I:678:ASP:OD2	1:I:680:LYS:HE3	1.69	0.91
1:K:146:GLU:CG	1:M:111:ARG:NH1	2.33	0.91
1:K:1194:SER:CB	1:K:1202:TRP:HZ3	1.79	0.91
1:M:597:TRP:HD1	1:M:1243:ILE:O	1.53	0.91
1:A:678:ASP:OD2	1:A:680:LYS:HE3	1.68	0.91
1:A:1185:PHE:O	1:A:1229:PHE:CZ	2.24	0.91
1:I:155:MET:HE3	1:I:441:GLN:NE2	1.86	0.91
1:K:431:LYS:HZ3	1:M:336:ASN:HB3	1.28	0.91
2:L:18:HIS:HE1	2:L:30:PRO:HD2	1.34	0.91
1:M:1185:PHE:O	1:M:1229:PHE:CZ	2.24	0.91
1:A:453:LEU:HA	1:A:456:LEU:CD1	2.00	0.91
1:E:1228:ASP:HB3	1:E:1230:LYS:HG2	1.52	0.91
1:G:359:TYR:HD1	1:G:360:ASP:H	0.91	0.91
1:G:359:TYR:CD1	1:G:360:ASP:N	2.36	0.91
1:G:431:LYS:HZ3	1:I:336:ASN:HB3	1.29	0.91
1:G:1185:PHE:O	1:G:1229:PHE:CZ	2.24	0.91
1:I:520:ALA:CB	1:I:648:GLU:HA	1.99	0.91
1:I:928:VAL:HG11	1:I:937:VAL:HG12	1.52	0.91
1:I:1228:ASP:HB3	1:I:1230:LYS:HG2	1.52	0.91
1:M:520:ALA:CB	1:M:648:GLU:HA	1.99	0.91
1:A:597:TRP:HD1	1:A:1243:ILE:O	1.53	0.91
1:G:928:VAL:HG11	1:G:937:VAL:HG12	1.52	0.91
1:I:597:TRP:HD1	1:I:1243:ILE:O	1.53	0.91

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:155:MET:HE3	1:A:441:GLN:NE2	1.86	0.91
1:A:520:ALA:CB	1:A:648:GLU:HA	2.00	0.91
1:A:1149:GLY:CA	1:A:1180:VAL:HG22	1.96	0.91
1:I:127:VAL:H	3:I:1301:DTP:HN61	1.17	0.91
1:I:473:LEU:CD2	1:I:484:TYR:HE1	1.83	0.91
1:K:450:CYS:HA	1:K:453:LEU:HD23	1.52	0.91
1:M:155:MET:HE3	1:M:441:GLN:NE2	1.86	0.91
1:M:473:LEU:CD1	1:M:480:CYS:HB2	2.00	0.91
1:C:146:GLU:CG	1:E:111:ARG:NH1	2.33	0.91
1:C:453:LEU:HA	1:C:456:LEU:CD1	2.00	0.91
1:K:155:MET:HE3	1:K:441:GLN:NE2	1.86	0.91
1:C:1201:TRP:CE3	1:C:1210:SER:HB3	2.06	0.91
1:E:450:CYS:HA	1:E:453:LEU:HD23	1.52	0.91
1:I:359:TYR:CD1	1:I:360:ASP:N	2.36	0.91
1:I:595:LEU:HD11	1:I:1201:TRP:CH2	2.05	0.91
1:K:473:LEU:CD1	1:K:480:CYS:HB2	2.00	0.91
1:A:928:VAL:HG11	1:A:937:VAL:HG12	1.52	0.90
1:C:678:ASP:OD2	1:C:680:LYS:HE3	1.68	0.90
1:C:1185:PHE:O	1:C:1229:PHE:CZ	2.24	0.90
1:E:1187:PRO:HG3	1:E:1229:PHE:CG	2.06	0.90
1:K:1185:PHE:O	1:K:1229:PHE:CZ	2.24	0.90
1:M:1228:ASP:HB3	1:M:1230:LYS:HG2	1.52	0.90
1:A:595:LEU:HD11	1:A:1201:TRP:CH2	2.06	0.90
1:A:595:LEU:HD13	1:A:1244:LEU:CD2	2.01	0.90
1:C:155:MET:HE3	1:C:441:GLN:NE2	1.86	0.90
1:E:155:MET:HE3	1:E:441:GLN:NE2	1.86	0.90
1:E:1201:TRP:CE3	1:E:1210:SER:HB3	2.06	0.90
1:G:520:ALA:CB	1:G:648:GLU:HA	1.99	0.90
1:I:473:LEU:CD1	1:I:480:CYS:HB2	2.00	0.90
1:K:146:GLU:HG3	1:M:111:ARG:HH12	1.32	0.90
1:A:336:ASN:HB3	1:M:431:LYS:HZ3	1.29	0.90
1:E:1185:PHE:O	1:E:1229:PHE:CZ	2.24	0.90
1:I:146:GLU:CG	1:K:111:ARG:NH1	2.33	0.90
1:I:450:CYS:HA	1:I:453:LEU:HD23	1.52	0.90
1:K:127:VAL:H	3:K:1301:DTP:HN61	1.17	0.90
1:A:473:LEU:CD1	1:A:480:CYS:HB2	2.00	0.90
1:G:473:LEU:CD1	1:G:480:CYS:HB2	2.00	0.90
1:G:595:LEU:HD13	1:G:1244:LEU:CD2	2.01	0.90
1:M:595:LEU:HD13	1:M:1244:LEU:CD2	2.01	0.90
1:M:1194:SER:CB	1:M:1202:TRP:HZ3	1.79	0.90
1:C:860:SER:O	1:C:861:GLN:HG3	1.72	0.90

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1187:PRO:HG3	1:C:1229:PHE:CG	2.06	0.90
1:G:155:MET:HE3	1:G:441:GLN:NE2	1.86	0.90
1:G:450:CYS:HA	1:G:453:LEU:HD23	1.52	0.90
1:I:543:ASN:OD1	1:I:574:SER:HB2	1.71	0.90
1:K:359:TYR:HD1	1:K:360:ASP:H	0.91	0.90
1:G:597:TRP:HD1	1:G:1243:ILE:O	1.53	0.90
1:I:595:LEU:HD13	1:I:1244:LEU:CD2	2.01	0.90
1:I:860:SER:O	1:I:861:GLN:HG3	1.72	0.90
1:I:1247:LEU:HD12	1:I:1248:GLU:H	1.37	0.90
1:K:595:LEU:HD13	1:K:1244:LEU:CD2	2.01	0.90
1:M:1201:TRP:CE3	1:M:1210:SER:HB3	2.07	0.90
1:A:127:VAL:CG2	1:A:294:ILE:HG13	2.02	0.90
1:E:595:LEU:HD13	1:E:1244:LEU:CD2	2.01	0.90
1:E:1149:GLY:CA	1:E:1180:VAL:HG22	1.96	0.90
1:K:127:VAL:CG2	1:K:294:ILE:HG13	2.02	0.90
1:K:1187:PRO:HG3	1:K:1229:PHE:CG	2.06	0.90
1:A:1187:PRO:HG3	1:A:1229:PHE:CG	2.06	0.90
1:C:597:TRP:HD1	1:C:1243:ILE:O	1.53	0.90
1:G:543:ASN:OD1	1:G:574:SER:HB2	1.71	0.90
1:K:928:VAL:HG22	1:K:1224:HIS:ND1	1.87	0.90
1:A:1201:TRP:CE3	1:A:1210:SER:HB3	2.06	0.90
1:C:127:VAL:H	3:C:1301:DTP:HN61	1.17	0.90
1:C:595:LEU:HD13	1:C:1244:LEU:CD2	2.01	0.90
1:M:860:SER:O	1:M:861:GLN:HG3	1.72	0.90
1:A:543:ASN:OD1	1:A:574:SER:HB2	1.71	0.90
1:C:473:LEU:CD1	1:C:480:CYS:HB2	2.00	0.90
1:E:597:TRP:HD1	1:E:1243:ILE:O	1.53	0.90
2:F:18:HIS:HE1	2:F:30:PRO:HD2	1.34	0.90
1:K:543:ASN:OD1	1:K:574:SER:HB2	1.71	0.90
1:K:860:SER:O	1:K:861:GLN:HG3	1.72	0.90
1:K:1247:LEU:HD12	1:K:1248:GLU:H	1.37	0.90
1:A:520:ALA:HB1	1:A:648:GLU:CA	2.03	0.89
1:A:860:SER:O	1:A:861:GLN:HG3	1.72	0.89
1:G:457:HIS:CD2	1:G:493:SER:HB3	2.07	0.89
1:G:1247:LEU:HD12	1:G:1248:GLU:H	1.37	0.89
1:I:127:VAL:CG2	1:I:294:ILE:HG13	2.02	0.89
1:K:453:LEU:CA	1:K:456:LEU:HD12	2.02	0.89
1:K:595:LEU:HD11	1:K:1201:TRP:CH2	2.05	0.89
1:M:473:LEU:CD2	1:M:484:TYR:HE1	1.83	0.89
1:M:1247:LEU:HD12	1:M:1248:GLU:H	1.37	0.89
1:C:333:ASP:HB2	1:C:334:PHE:CE1	2.07	0.89

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:453:LEU:CA	1:I:456:LEU:HD12	2.02	0.89
1:I:1201:TRP:CE3	1:I:1210:SER:HB3	2.06	0.89
1:M:127:VAL:CG2	1:M:294:ILE:HG13	2.02	0.89
1:A:127:VAL:H	3:A:1301:DTP:HN61	1.17	0.89
1:G:127:VAL:H	3:G:1301:DTP:HN61	1.17	0.89
1:I:457:HIS:CD2	1:I:493:SER:HB3	2.07	0.89
1:M:520:ALA:HB1	1:M:648:GLU:CA	2.03	0.89
1:A:500:LEU:HD22	1:A:532:ILE:HG12	1.55	0.89
1:C:1228:ASP:HB3	1:C:1230:LYS:HG2	1.52	0.89
1:E:473:LEU:CD1	1:E:480:CYS:HB2	2.00	0.89
1:G:1201:TRP:CE3	1:G:1210:SER:HB3	2.06	0.89
1:M:928:VAL:HG22	1:M:1224:HIS:ND1	1.87	0.89
1:A:1228:ASP:HB3	1:A:1230:LYS:HG2	1.52	0.89
1:E:333:ASP:HB2	1:E:334:PHE:CE1	2.07	0.89
1:E:1247:LEU:HD12	1:E:1248:GLU:H	1.37	0.89
1:G:860:SER:O	1:G:861:GLN:HG3	1.72	0.89
1:I:333:ASP:HB2	1:I:334:PHE:CE1	2.07	0.89
1:I:500:LEU:HD22	1:I:532:ILE:HG12	1.55	0.89
1:I:1187:PRO:HG3	1:I:1229:PHE:CG	2.06	0.89
1:M:595:LEU:HD11	1:M:1201:TRP:CH2	2.05	0.89
2:D:18:HIS:HE1	2:D:30:PRO:HD2	1.34	0.89
1:G:928:VAL:HG22	1:G:1224:HIS:ND1	1.87	0.89
1:I:316:GLU:O	1:I:318:LYS:HG2	1.73	0.89
1:I:924:GLN:HB3	1:I:1238:LEU:HG	1.54	0.89
1:M:453:LEU:CA	1:M:456:LEU:HD12	2.02	0.89
1:M:457:HIS:CD2	1:M:493:SER:HB3	2.07	0.89
1:A:333:ASP:HB2	1:A:334:PHE:CE1	2.07	0.89
1:C:928:VAL:HG22	1:C:1224:HIS:ND1	1.87	0.89
1:G:520:ALA:HB1	1:G:648:GLU:CA	2.02	0.89
1:I:364:LEU:HD11	1:I:368:MET:HE1	1.55	0.89
1:K:520:ALA:HB1	1:K:648:GLU:CA	2.03	0.89
1:M:543:ASN:OD1	1:M:574:SER:HB2	1.71	0.89
1:A:457:HIS:CD2	1:A:493:SER:HB3	2.07	0.89
1:C:127:VAL:CG2	1:C:294:ILE:HG13	2.02	0.89
1:C:364:LEU:HD11	1:C:368:MET:HE1	1.55	0.89
1:E:520:ALA:HB1	1:E:648:GLU:CA	2.02	0.89
1:E:595:LEU:CD1	1:E:1201:TRP:HZ2	1.78	0.89
1:I:359:TYR:HD1	1:I:360:ASP:H	0.91	0.89
1:I:595:LEU:CD1	1:I:1201:TRP:HZ2	1.78	0.89
1:K:500:LEU:HD22	1:K:532:ILE:HG12	1.55	0.89
1:A:364:LEU:HD11	1:A:368:MET:HE1	1.55	0.89

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:614:HIS:HE1	1:A:640:GLN:CG	1.83	0.89
1:C:500:LEU:HD22	1:C:532:ILE:HG12	1.55	0.89
1:C:543:ASN:OD1	1:C:574:SER:HB2	1.71	0.89
1:E:316:GLU:O	1:E:318:LYS:HG2	1.73	0.89
1:E:473:LEU:CD2	1:E:484:TYR:HE1	1.83	0.89
1:E:595:LEU:HB3	1:E:1244:LEU:HB2	1.55	0.89
1:E:860:SER:O	1:E:861:GLN:HG3	1.72	0.89
1:E:1185:PHE:HD1	1:E:1192:LEU:HG	1.36	0.89
1:G:558:GLN:O	1:G:560:PHE:N	2.06	0.89
1:I:1201:TRP:HE3	1:I:1210:SER:HB3	1.38	0.89
1:K:364:LEU:HD11	1:K:368:MET:HE1	1.55	0.89
1:M:316:GLU:O	1:M:318:LYS:HG2	1.73	0.89
1:C:595:LEU:HB3	1:C:1244:LEU:HB2	1.55	0.89
1:E:543:ASN:OD1	1:E:574:SER:HB2	1.71	0.89
1:G:1201:TRP:HE3	1:G:1210:SER:HB3	1.38	0.89
1:I:928:VAL:HG22	1:I:1224:HIS:ND1	1.87	0.89
1:M:500:LEU:HD22	1:M:532:ILE:HG12	1.55	0.89
1:A:928:VAL:HG22	1:A:1224:HIS:ND1	1.87	0.88
1:A:1247:LEU:HD12	1:A:1248:GLU:H	1.37	0.88
1:C:359:TYR:HD1	1:C:360:ASP:H	0.92	0.88
1:K:316:GLU:O	1:K:318:LYS:HG2	1.73	0.88
1:K:1201:TRP:HE3	1:K:1210:SER:HB3	1.38	0.88
1:M:1187:PRO:HG3	1:M:1229:PHE:CG	2.06	0.88
1:A:316:GLU:O	1:A:318:LYS:HG2	1.73	0.88
1:C:316:GLU:O	1:C:318:LYS:HG2	1.73	0.88
1:E:639:LEU:O	1:E:653:ILE:HG22	1.73	0.88
1:K:333:ASP:HB2	1:K:334:PHE:CE1	2.07	0.88
1:K:558:GLN:O	1:K:560:PHE:N	2.06	0.88
1:K:1201:TRP:CE3	1:K:1210:SER:HB3	2.06	0.88
1:A:558:GLN:O	1:A:560:PHE:N	2.06	0.88
1:G:500:LEU:HD22	1:G:532:ILE:HG12	1.55	0.88
1:G:924:GLN:HB3	1:G:1238:LEU:HG	1.54	0.88
2:D:103:ASN:O	2:D:104:GLU:O	1.92	0.88
1:G:333:ASP:HB2	1:G:334:PHE:CE1	2.07	0.88
1:I:520:ALA:HB1	1:I:648:GLU:CA	2.03	0.88
1:K:862:TYR:CE2	1:K:881:HIS:N	2.42	0.88
1:K:924:GLN:HB3	1:K:1238:LEU:HG	1.54	0.88
1:E:364:LEU:HD11	1:E:368:MET:HE1	1.55	0.88
1:G:127:VAL:CG2	1:G:294:ILE:HG13	2.02	0.88
2:J:103:ASN:O	2:J:104:GLU:O	1.92	0.88
1:K:595:LEU:HD11	1:K:1201:TRP:HZ2	0.89	0.88

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:284:SER:O	1:A:438:HIS:CE1	2.27	0.88
1:C:614:HIS:HE1	1:C:640:GLN:CG	1.83	0.88
1:C:1247:LEU:HD12	1:C:1248:GLU:H	1.37	0.88
1:G:364:LEU:HD11	1:G:368:MET:HE1	1.55	0.88
1:A:431:LYS:HZ3	1:C:336:ASN:HB3	1.32	0.88
1:A:453:LEU:CA	1:A:456:LEU:HD12	2.03	0.88
1:A:1240:ILE:HG23	1:A:1241:LEU:N	1.89	0.88
1:C:520:ALA:HB1	1:C:648:GLU:CA	2.03	0.88
1:E:457:HIS:CD2	1:E:493:SER:HB3	2.07	0.88
1:E:928:VAL:HG22	1:E:1224:HIS:ND1	1.87	0.88
2:H:103:ASN:O	2:H:104:GLU:O	1.92	0.88
1:M:333:ASP:HB2	1:M:334:PHE:CE1	2.07	0.88
1:A:595:LEU:HB3	1:A:1244:LEU:HB2	1.55	0.88
1:A:922:LEU:CD1	1:A:1241:LEU:HD23	2.04	0.88
1:C:1201:TRP:HE3	1:C:1210:SER:HB3	1.38	0.88
1:E:1201:TRP:HE3	1:E:1210:SER:HB3	1.38	0.88
1:M:127:VAL:H	3:M:1301:DTP:HN61	1.17	0.88
1:M:359:TYR:HD1	1:M:360:ASP:H	0.91	0.88
1:M:639:LEU:O	1:M:653:ILE:HG22	1.73	0.88
1:A:924:GLN:HB3	1:A:1238:LEU:HG	1.54	0.88
1:A:1187:PRO:HG3	1:A:1229:PHE:CD2	2.09	0.88
1:E:127:VAL:CG2	1:E:294:ILE:HG13	2.02	0.88
2:F:103:ASN:O	2:F:104:GLU:O	1.92	0.88
1:G:595:LEU:HB3	1:G:1244:LEU:HB2	1.55	0.88
1:I:922:LEU:CD1	1:I:1241:LEU:HD23	2.04	0.88
1:K:1185:PHE:HD1	1:K:1192:LEU:HG	1.36	0.88
1:M:284:SER:O	1:M:438:HIS:CE1	2.27	0.88
1:M:364:LEU:HD11	1:M:368:MET:HE1	1.55	0.88
1:M:862:TYR:CE2	1:M:881:HIS:N	2.42	0.88
1:M:1201:TRP:HE3	1:M:1210:SER:HB3	1.38	0.88
1:A:639:LEU:O	1:A:653:ILE:HG22	1.73	0.88
1:C:284:SER:O	1:C:438:HIS:CE1	2.27	0.88
1:C:558:GLN:O	1:C:560:PHE:N	2.06	0.88
1:E:127:VAL:H	3:E:1301:DTP:HN61	1.17	0.88
1:E:500:LEU:HD22	1:E:532:ILE:HG12	1.55	0.88
1:E:922:LEU:CD1	1:E:1241:LEU:HD23	2.04	0.88
1:K:457:HIS:CD2	1:K:493:SER:HB3	2.07	0.88
1:K:639:LEU:O	1:K:653:ILE:HG22	1.73	0.88
1:M:558:GLN:O	1:M:560:PHE:N	2.06	0.88
1:M:1240:ILE:HG23	1:M:1241:LEU:N	1.89	0.88
1:C:457:HIS:CD2	1:C:493:SER:HB3	2.07	0.87

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1185:PHE:HD1	1:C:1192:LEU:HG	1.36	0.87
1:G:1187:PRO:HG3	1:G:1229:PHE:CD2	2.09	0.87
1:K:716:LEU:HB3	1:K:728:TRP:HB2	1.56	0.87
1:M:922:LEU:CD1	1:M:1241:LEU:HD23	2.04	0.87
1:M:1187:PRO:HG3	1:M:1229:PHE:CD2	2.09	0.87
1:A:948:LEU:HD12	1:A:957:ASP:CG	1.99	0.87
1:G:316:GLU:O	1:G:318:LYS:HG2	1.73	0.87
1:M:716:LEU:HB3	1:M:728:TRP:HB2	1.56	0.87
1:M:1185:PHE:HD1	1:M:1192:LEU:HG	1.36	0.87
2:B:103:ASN:O	2:B:104:GLU:O	1.92	0.87
1:C:473:LEU:CD2	1:C:484:TYR:HE1	1.83	0.87
1:G:862:TYR:CE2	1:G:881:HIS:N	2.42	0.87
1:G:394:LYS:CB	1:G:434:ARG:HB2	2.04	0.87
1:G:639:LEU:O	1:G:653:ILE:HG22	1.74	0.87
1:G:922:LEU:CD1	1:G:1241:LEU:HD23	2.04	0.87
1:K:559:PRO:O	1:K:561:PRO:N	2.08	0.87
1:K:595:LEU:HD22	1:K:1244:LEU:HD13	0.89	0.87
1:C:948:LEU:HD12	1:C:957:ASP:CG	1.99	0.87
1:G:948:LEU:HD12	1:G:957:ASP:CG	2.00	0.87
1:K:948:LEU:HD12	1:K:957:ASP:CG	2.00	0.87
2:N:103:ASN:O	2:N:104:GLU:O	1.92	0.87
1:C:924:GLN:HB3	1:C:1238:LEU:HG	1.54	0.87
1:E:359:TYR:HD1	1:E:360:ASP:H	0.91	0.87
1:E:394:LYS:CB	1:E:434:ARG:HB2	2.04	0.87
1:E:453:LEU:CA	1:E:456:LEU:HD12	2.02	0.87
1:E:1164:LEU:H	1:E:1164:LEU:HD12	1.40	0.87
1:I:1187:PRO:HG3	1:I:1229:PHE:CD2	2.09	0.87
1:K:284:SER:O	1:K:438:HIS:CE1	2.27	0.87
2:L:103:ASN:O	2:L:104:GLU:O	1.92	0.87
1:M:595:LEU:HD11	1:M:1201:TRP:HZ2	0.89	0.87
1:A:1201:TRP:HE3	1:A:1210:SER:HB3	1.38	0.87
1:C:179:PRO:HD2	1:C:237:ARG:NH1	1.88	0.87
1:C:922:LEU:CD1	1:C:1241:LEU:HD23	2.04	0.87
1:E:558:GLN:O	1:E:560:PHE:N	2.06	0.87
1:E:924:GLN:HB3	1:E:1238:LEU:HG	1.54	0.87
1:G:453:LEU:CA	1:G:456:LEU:HD12	2.02	0.87
1:I:595:LEU:HD11	1:I:1201:TRP:HZ2	0.89	0.87
1:I:948:LEU:HD12	1:I:957:ASP:CG	1.99	0.87
1:K:544:PHE:HE1	1:K:576:VAL:HG13	1.06	0.87
1:M:595:LEU:CD1	1:M:1201:TRP:HZ2	1.78	0.87
1:E:284:SER:O	1:E:438:HIS:CE1	2.27	0.87

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:544:PHE:HE1	1:G:576:VAL:HG13	1.06	0.87
1:I:639:LEU:O	1:I:653:ILE:HG22	1.74	0.87
1:K:1164:LEU:H	1:K:1164:LEU:HD12	1.40	0.87
1:M:579:GLN:NE2	1:M:579:GLN:O	2.08	0.87
1:M:948:LEU:HD12	1:M:957:ASP:CG	2.00	0.87
1:A:394:LYS:CB	1:A:434:ARG:HB2	2.04	0.87
1:A:431:LYS:NZ	1:C:336:ASN:CB	2.38	0.87
1:A:559:PRO:O	1:A:561:PRO:N	2.08	0.87
1:A:716:LEU:HB3	1:A:728:TRP:HB2	1.56	0.87
1:A:922:LEU:HD12	1:A:1241:LEU:HD23	1.57	0.87
1:C:639:LEU:O	1:C:653:ILE:HG22	1.73	0.87
1:E:559:PRO:O	1:E:561:PRO:N	2.08	0.87
1:E:882:LEU:CB	1:E:1237:ASN:HD21	1.88	0.87
1:E:1187:PRO:HG3	1:E:1229:PHE:CD2	2.09	0.87
1:G:862:TYR:OH	1:G:881:HIS:HB2	1.75	0.87
1:G:882:LEU:CB	1:G:1237:ASN:HD21	1.88	0.87
1:I:862:TYR:OH	1:I:881:HIS:HB2	1.75	0.87
1:K:922:LEU:CD1	1:K:1241:LEU:HD23	2.04	0.87
1:K:1187:PRO:HG3	1:K:1229:PHE:CD2	2.09	0.87
1:M:595:LEU:HD22	1:M:1244:LEU:HD13	0.88	0.87
1:A:336:ASN:CB	1:M:431:LYS:NZ	2.38	0.86
1:A:579:GLN:O	1:A:579:GLN:NE2	2.08	0.86
1:C:559:PRO:O	1:C:561:PRO:N	2.08	0.86
1:E:922:LEU:HD12	1:E:1241:LEU:HD23	1.58	0.86
1:I:284:SER:O	1:I:438:HIS:CE1	2.27	0.86
1:I:558:GLN:O	1:I:560:PHE:N	2.06	0.86
1:I:716:LEU:HB3	1:I:728:TRP:HB2	1.56	0.86
1:I:862:TYR:CE2	1:I:881:HIS:N	2.42	0.86
1:M:924:GLN:HB3	1:M:1238:LEU:HG	1.54	0.86
1:A:294:ILE:HG21	1:A:324:VAL:CG1	2.06	0.86
1:A:862:TYR:CE2	1:A:881:HIS:N	2.42	0.86
1:C:1201:TRP:HB2	1:C:1210:SER:O	1.75	0.86
1:E:579:GLN:NE2	1:E:579:GLN:O	2.08	0.86
1:G:1240:ILE:HG23	1:G:1241:LEU:N	1.89	0.86
1:I:595:LEU:HD22	1:I:1244:LEU:HD13	0.89	0.86
1:M:595:LEU:HB3	1:M:1244:LEU:HB2	1.55	0.86
1:C:1164:LEU:H	1:C:1164:LEU:HD12	1.40	0.86
1:E:862:TYR:CE2	1:E:881:HIS:N	2.42	0.86
1:I:394:LYS:CB	1:I:434:ARG:HB2	2.04	0.86
1:M:394:LYS:CB	1:M:434:ARG:HB2	2.04	0.86
1:C:862:TYR:CE2	1:C:881:HIS:N	2.42	0.86

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1187:PRO:HG3	1:C:1229:PHE:CD2	2.09	0.86
1:E:1201:TRP:HB2	1:E:1210:SER:O	1.75	0.86
1:G:284:SER:O	1:G:438:HIS:CE1	2.27	0.86
1:I:179:PRO:HD2	1:I:237:ARG:NH1	1.88	0.86
1:I:882:LEU:CB	1:I:1237:ASN:HD21	1.88	0.86
1:M:294:ILE:HG21	1:M:324:VAL:CG1	2.06	0.86
1:A:1201:TRP:HB2	1:A:1210:SER:O	1.75	0.86
1:C:394:LYS:CB	1:C:434:ARG:HB2	2.04	0.86
1:C:453:LEU:CA	1:C:456:LEU:HD12	2.03	0.86
1:C:882:LEU:CB	1:C:1237:ASN:HD21	1.88	0.86
1:C:1240:ILE:HG23	1:C:1241:LEU:N	1.89	0.86
1:K:579:GLN:NE2	1:K:579:GLN:O	2.08	0.86
1:K:1201:TRP:HB2	1:K:1210:SER:O	1.75	0.86
1:M:520:ALA:CB	1:M:648:GLU:CB	2.53	0.86
1:M:922:LEU:HD12	1:M:1241:LEU:HD23	1.58	0.86
1:A:597:TRP:HH2	1:A:603:ILE:CD1	1.89	0.86
1:C:294:ILE:HG21	1:C:324:VAL:CG1	2.06	0.86
1:C:500:LEU:HD23	1:C:533:LEU:HD13	1.57	0.86
1:G:597:TRP:HH2	1:G:603:ILE:CD1	1.89	0.86
1:G:922:LEU:HD12	1:G:1241:LEU:HD23	1.58	0.86
1:I:579:GLN:O	1:I:579:GLN:NE2	2.08	0.86
1:K:394:LYS:CB	1:K:434:ARG:HB2	2.04	0.86
1:M:1201:TRP:HB2	1:M:1210:SER:O	1.75	0.86
1:A:332:ARG:CB	1:A:332:ARG:HH11	1.88	0.86
1:A:520:ALA:CB	1:A:648:GLU:CB	2.53	0.86
1:A:595:LEU:HD22	1:A:1244:LEU:HD13	0.89	0.86
1:A:923:LYS:CB	1:A:940:VAL:CG2	2.54	0.86
1:G:332:ARG:CB	1:G:332:ARG:HH11	1.88	0.86
1:I:639:LEU:CD2	1:I:653:ILE:CD1	2.54	0.86
1:I:1164:LEU:H	1:I:1164:LEU:HD12	1.40	0.86
1:M:108:SER:O	1:M:111:ARG:HG3	1.76	0.86
1:M:639:LEU:CD2	1:M:653:ILE:CD1	2.54	0.86
1:C:579:GLN:NE2	1:C:579:GLN:O	2.08	0.86
1:G:559:PRO:O	1:G:561:PRO:N	2.08	0.86
1:G:579:GLN:O	1:G:579:GLN:NE2	2.08	0.86
1:I:333:ASP:HB2	1:I:334:PHE:CD1	2.11	0.86
1:I:505:PHE:HZ	1:I:540:VAL:HG11	1.40	0.86
1:I:544:PHE:HE1	1:I:576:VAL:HG13	1.06	0.86
1:K:597:TRP:HH2	1:K:603:ILE:CD1	1.89	0.86
1:K:882:LEU:CB	1:K:1237:ASN:HD21	1.88	0.86
1:K:1146:ASP:O	1:K:1180:VAL:CG2	2.24	0.86

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:559:PRO:O	1:M:561:PRO:N	2.08	0.86
1:A:882:LEU:CB	1:A:1237:ASN:HD21	1.88	0.86
1:C:595:LEU:HD22	1:C:1244:LEU:HD13	0.88	0.86
1:E:595:LEU:HD22	1:E:1244:LEU:HD13	0.88	0.86
1:E:948:LEU:HD12	1:E:957:ASP:CG	1.99	0.86
1:M:1146:ASP:O	1:M:1180:VAL:CG2	2.24	0.86
1:A:359:TYR:HD1	1:A:360:ASP:H	0.91	0.86
1:A:500:LEU:HD23	1:A:533:LEU:HD13	1.57	0.86
1:C:108:SER:O	1:C:111:ARG:HG3	1.76	0.86
1:C:505:PHE:HZ	1:C:540:VAL:HG11	1.40	0.86
1:C:520:ALA:CB	1:C:648:GLU:CB	2.53	0.86
1:C:922:LEU:HD12	1:C:1241:LEU:HD23	1.58	0.86
1:G:179:PRO:HD2	1:G:237:ARG:NH1	1.88	0.86
1:G:1164:LEU:HD12	1:G:1164:LEU:H	1.40	0.86
1:I:108:SER:O	1:I:111:ARG:HG3	1.76	0.86
1:I:500:LEU:HD23	1:I:533:LEU:HD13	1.57	0.86
1:K:294:ILE:HG21	1:K:324:VAL:CG1	2.06	0.86
1:K:333:ASP:HB2	1:K:334:PHE:CD1	2.11	0.86
1:M:639:LEU:HG	1:M:653:ILE:HG21	1.58	0.86
1:M:882:LEU:CB	1:M:1237:ASN:HD21	1.88	0.86
1:A:639:LEU:HG	1:A:653:ILE:HG21	1.58	0.85
1:A:1164:LEU:H	1:A:1164:LEU:HD12	1.40	0.85
1:C:862:TYR:OH	1:C:881:HIS:HB2	1.75	0.85
1:G:333:ASP:HB2	1:G:334:PHE:CD1	2.11	0.85
1:G:431:LYS:NZ	1:I:336:ASN:CB	2.38	0.85
1:G:1185:PHE:HD1	1:G:1192:LEU:HG	1.36	0.85
1:I:431:LYS:NZ	1:K:336:ASN:CB	2.38	0.85
1:I:1201:TRP:HB2	1:I:1210:SER:O	1.75	0.85
1:K:862:TYR:OH	1:K:881:HIS:HB2	1.75	0.85
1:M:171:HIS:NE2	1:M:175:GLU:HG3	1.91	0.85
1:A:1149:GLY:CA	1:A:1180:VAL:CG2	2.54	0.85
1:C:431:LYS:NZ	1:E:336:ASN:CB	2.38	0.85
1:E:294:ILE:HG21	1:E:324:VAL:CG1	2.06	0.85
1:E:403:LEU:HD12	1:E:403:LEU:O	1.76	0.85
1:G:403:LEU:HD12	1:G:403:LEU:O	1.77	0.85
1:I:559:PRO:O	1:I:561:PRO:N	2.08	0.85
1:I:595:LEU:HB3	1:I:1244:LEU:HB2	1.55	0.85
1:K:500:LEU:HD23	1:K:533:LEU:HD13	1.57	0.85
1:A:333:ASP:HB2	1:A:334:PHE:CD1	2.11	0.85
1:C:332:ARG:CB	1:C:332:ARG:HH11	1.88	0.85
1:E:431:LYS:NZ	1:G:336:ASN:CB	2.38	0.85

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:500:LEU:HD23	1:E:533:LEU:HD13	1.57	0.85
1:G:1201:TRP:HB2	1:G:1210:SER:O	1.75	0.85
1:K:171:HIS:NE2	1:K:175:GLU:HG3	1.91	0.85
1:K:595:LEU:HB3	1:K:1244:LEU:HB2	1.55	0.85
1:K:639:LEU:HG	1:K:653:ILE:HG21	1.58	0.85
1:A:1146:ASP:O	1:A:1180:VAL:CG2	2.24	0.85
1:A:1185:PHE:HD1	1:A:1192:LEU:HG	1.36	0.85
1:C:333:ASP:HB2	1:C:334:PHE:CD1	2.11	0.85
1:E:597:TRP:HH2	1:E:603:ILE:CD1	1.89	0.85
1:G:595:LEU:HD22	1:G:1244:LEU:HD13	0.89	0.85
1:I:477:GLN:HA	1:I:477:GLN:NE2	1.90	0.85
2:J:17:CYS:SG	5:J:201:HEM:C3C	2.70	0.85
1:K:922:LEU:HD12	1:K:1241:LEU:HD23	1.58	0.85
1:K:1240:ILE:HG23	1:K:1241:LEU:N	1.89	0.85
1:A:505:PHE:HZ	1:A:540:VAL:HG11	1.40	0.85
1:C:1149:GLY:CA	1:C:1180:VAL:CG2	2.54	0.85
1:E:862:TYR:OH	1:E:881:HIS:HB2	1.75	0.85
1:I:294:ILE:HG21	1:I:324:VAL:CG1	2.06	0.85
1:I:922:LEU:HD12	1:I:1241:LEU:HD23	1.58	0.85
1:K:431:LYS:NZ	1:M:336:ASN:CB	2.38	0.85
1:K:639:LEU:CD2	1:K:653:ILE:CD1	2.54	0.85
1:A:108:SER:O	1:A:111:ARG:HG3	1.76	0.85
1:A:862:TYR:OH	1:A:881:HIS:HB2	1.75	0.85
1:G:1146:ASP:O	1:G:1180:VAL:CG2	2.24	0.85
1:I:403:LEU:HD12	1:I:403:LEU:O	1.77	0.85
1:I:1176:HIS:HB2	1:I:1218:THR:HB	1.59	0.85
1:K:108:SER:O	1:K:111:ARG:HG3	1.76	0.85
1:K:1176:HIS:HB2	1:K:1218:THR:HB	1.59	0.85
2:L:17:CYS:SG	5:L:201:HEM:C3C	2.70	0.85
1:M:332:ARG:CB	1:M:332:ARG:HH11	1.88	0.85
1:A:595:LEU:HD11	1:A:1201:TRP:HZ2	0.89	0.85
1:C:403:LEU:HD12	1:C:403:LEU:O	1.77	0.85
1:C:639:LEU:HG	1:C:653:ILE:HG21	1.58	0.85
1:E:716:LEU:HB3	1:E:728:TRP:HB2	1.56	0.85
1:G:294:ILE:HG21	1:G:324:VAL:CG1	2.06	0.85
1:G:1176:HIS:HB2	1:G:1218:THR:HB	1.59	0.85
1:I:1146:ASP:O	1:I:1180:VAL:CG2	2.24	0.85
1:M:597:TRP:HH2	1:M:603:ILE:CD1	1.89	0.85
1:M:1176:HIS:HB2	1:M:1218:THR:HB	1.59	0.85
1:A:171:HIS:NE2	1:A:175:GLU:HG3	1.91	0.85
1:C:544:PHE:HE1	1:C:576:VAL:HG13	1.06	0.85

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1146:ASP:O	1:C:1180:VAL:CG2	2.24	0.85
1:E:332:ARG:CB	1:E:332:ARG:HH11	1.89	0.85
1:G:473:LEU:CD2	1:G:484:TYR:HE1	1.83	0.85
1:I:332:ARG:CB	1:I:332:ARG:HH11	1.88	0.85
1:M:333:ASP:HB2	1:M:334:PHE:CD1	2.11	0.85
1:E:1146:ASP:O	1:E:1180:VAL:CG2	2.24	0.85
1:G:500:LEU:HD23	1:G:533:LEU:HD13	1.57	0.85
1:I:171:HIS:NE2	1:I:175:GLU:HG3	1.91	0.85
1:C:477:GLN:HA	1:C:477:GLN:NE2	1.90	0.85
1:C:597:TRP:HH2	1:C:603:ILE:CD1	1.89	0.85
1:C:716:LEU:HB3	1:C:728:TRP:HB2	1.56	0.85
2:D:17:CYS:SG	5:D:201:HEM:C3C	2.70	0.85
1:E:108:SER:O	1:E:111:ARG:HG3	1.76	0.85
1:E:171:HIS:NE2	1:E:175:GLU:HG3	1.91	0.85
1:G:595:LEU:HD11	1:G:1201:TRP:HZ2	0.89	0.85
1:G:639:LEU:CD2	1:G:653:ILE:CD1	2.54	0.85
1:I:639:LEU:HG	1:I:653:ILE:HG21	1.59	0.85
1:K:332:ARG:CB	1:K:332:ARG:HH11	1.88	0.85
1:M:862:TYR:OH	1:M:881:HIS:HB2	1.75	0.85
1:C:639:LEU:CD2	1:C:653:ILE:CD1	2.54	0.84
1:I:614:HIS:CE1	1:I:640:GLN:HG3	2.12	0.84
1:I:1240:ILE:HG23	1:I:1241:LEU:N	1.89	0.84
1:M:1149:GLY:CA	1:M:1180:VAL:CG2	2.54	0.84
1:A:544:PHE:HE1	1:A:576:VAL:HG13	1.06	0.84
1:A:639:LEU:CD2	1:A:653:ILE:CD1	2.54	0.84
1:E:333:ASP:HB2	1:E:334:PHE:CD1	2.11	0.84
1:E:477:GLN:HA	1:E:477:GLN:NE2	1.90	0.84
1:E:614:HIS:HE1	1:E:640:GLN:CG	1.83	0.84
1:I:597:TRP:HH2	1:I:603:ILE:CD1	1.89	0.84
1:M:505:PHE:HZ	1:M:540:VAL:HG11	1.40	0.84
2:N:17:CYS:SG	5:N:201:HEM:C3C	2.70	0.84
1:C:241:ILE:C	1:C:242:LEU:HD12	2.02	0.84
1:E:241:ILE:C	1:E:242:LEU:HD12	2.02	0.84
1:G:1217:GLY:O	1:G:1218:THR:HG23	1.78	0.84
2:B:17:CYS:SG	5:B:201:HEM:C3C	2.70	0.84
1:E:505:PHE:HZ	1:E:540:VAL:HG11	1.40	0.84
1:K:614:HIS:CE1	1:K:640:GLN:HG3	2.12	0.84
1:M:500:LEU:HD23	1:M:533:LEU:HD13	1.57	0.84
1:E:1176:HIS:HB2	1:E:1218:THR:HB	1.59	0.84
1:A:1176:HIS:HB2	1:A:1218:THR:HB	1.59	0.84
1:C:171:HIS:NE2	1:C:175:GLU:HG3	1.91	0.84

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:923:LYS:CB	1:C:940:VAL:CG2	2.54	0.84
1:E:639:LEU:CD2	1:E:653:ILE:CD1	2.54	0.84
1:E:639:LEU:HG	1:E:653:ILE:HG21	1.58	0.84
1:E:1149:GLY:CA	1:E:1180:VAL:CG2	2.54	0.84
1:G:241:ILE:C	1:G:242:LEU:HD12	2.02	0.84
1:M:1164:LEU:H	1:M:1164:LEU:HD12	1.40	0.84
1:A:1217:GLY:O	1:A:1218:THR:HG23	1.78	0.84
1:E:1217:GLY:O	1:E:1218:THR:HG23	1.78	0.84
2:H:17:CYS:SG	5:H:201:HEM:C3C	2.70	0.84
1:M:544:PHE:HE1	1:M:576:VAL:HG13	1.06	0.84
1:A:241:ILE:C	1:A:242:LEU:HD12	2.03	0.84
1:C:322:LEU:O	1:C:322:LEU:HD22	1.77	0.84
1:C:1217:GLY:O	1:C:1218:THR:HG23	1.78	0.84
2:F:17:CYS:SG	5:F:201:HEM:C3C	2.70	0.84
1:I:322:LEU:O	1:I:322:LEU:HD22	1.77	0.84
1:K:403:LEU:HD12	1:K:403:LEU:O	1.77	0.84
1:A:403:LEU:HD12	1:A:403:LEU:O	1.76	0.84
1:E:284:SER:O	1:E:438:HIS:HE1	1.61	0.84
1:E:322:LEU:O	1:E:322:LEU:HD22	1.77	0.84
1:G:284:SER:O	1:G:438:HIS:HE1	1.61	0.84
1:G:614:HIS:CE1	1:G:640:GLN:HG3	2.12	0.84
1:G:639:LEU:HG	1:G:653:ILE:HG21	1.59	0.84
1:G:716:LEU:HB3	1:G:728:TRP:HB2	1.56	0.84
1:I:122:ARG:HH21	1:I:126:PHE:HZ	1.24	0.84
1:I:1217:GLY:O	1:I:1218:THR:HG23	1.78	0.84
1:K:122:ARG:HH21	1:K:126:PHE:HZ	1.23	0.84
1:A:364:LEU:HD13	1:A:364:LEU:O	1.78	0.83
1:C:284:SER:O	1:C:438:HIS:HE1	1.61	0.83
1:C:364:LEU:O	1:C:364:LEU:HD13	1.78	0.83
1:G:171:HIS:NE2	1:G:175:GLU:HG3	1.91	0.83
1:M:525:GLU:O	1:M:528:GLU:CG	2.26	0.83
1:E:544:PHE:HE1	1:E:576:VAL:HG13	1.06	0.83
1:G:108:SER:O	1:G:111:ARG:HG3	1.76	0.83
1:K:322:LEU:O	1:K:322:LEU:HD22	1.77	0.83
1:K:477:GLN:HA	1:K:477:GLN:NE2	1.90	0.83
1:K:883:SER:OG	1:K:902:ASP:CB	2.26	0.83
1:M:883:SER:OG	1:M:902:ASP:CB	2.26	0.83
1:M:1217:GLY:O	1:M:1218:THR:HG23	1.78	0.83
1:A:322:LEU:O	1:A:322:LEU:HD22	1.77	0.83
1:C:500:LEU:CD2	1:C:532:ILE:HG12	2.09	0.83
1:G:505:PHE:HZ	1:G:540:VAL:HG11	1.40	0.83

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:33:HIS:HE1	2:J:104:GLU:O	1.62	0.83
2:L:33:HIS:HE1	2:L:104:GLU:O	1.62	0.83
1:A:477:GLN:HA	1:A:477:GLN:NE2	1.90	0.83
1:A:614:HIS:CE1	1:A:640:GLN:HG3	2.12	0.83
1:C:595:LEU:HD11	1:C:1201:TRP:HZ2	0.89	0.83
1:C:604:THR:H	1:C:1240:ILE:HD13	1.43	0.83
1:C:614:HIS:CE1	1:C:640:GLN:HG3	2.12	0.83
1:E:500:LEU:CD2	1:E:532:ILE:HG12	2.09	0.83
1:E:1240:ILE:HG23	1:E:1241:LEU:N	1.89	0.83
1:I:284:SER:O	1:I:438:HIS:HE1	1.61	0.83
1:M:241:ILE:C	1:M:242:LEU:HD12	2.02	0.83
1:M:614:HIS:CE1	1:M:640:GLN:HG3	2.12	0.83
1:A:525:GLU:O	1:A:528:GLU:CG	2.26	0.83
1:C:1176:HIS:HB2	1:C:1218:THR:HB	1.59	0.83
1:I:241:ILE:C	1:I:242:LEU:HD12	2.02	0.83
1:I:923:LYS:CB	1:I:940:VAL:CG2	2.54	0.83
1:A:453:LEU:HD12	1:A:454:GLN:N	1.94	0.83
2:B:33:HIS:HE1	2:B:104:GLU:O	1.61	0.83
1:E:595:LEU:HD11	1:E:1201:TRP:HZ2	0.89	0.83
1:E:883:SER:OG	1:E:902:ASP:CB	2.26	0.83
1:G:520:ALA:CB	1:G:648:GLU:CB	2.53	0.83
1:G:1149:GLY:CA	1:G:1180:VAL:CG2	2.54	0.83
1:K:241:ILE:C	1:K:242:LEU:HD12	2.02	0.83
1:E:364:LEU:O	1:E:364:LEU:HD13	1.78	0.83
1:G:364:LEU:O	1:G:364:LEU:HD13	1.78	0.83
1:G:477:GLN:HA	1:G:477:GLN:NE2	1.90	0.83
1:G:604:THR:H	1:G:1240:ILE:HD13	1.43	0.83
2:H:33:HIS:HE1	2:H:104:GLU:O	1.61	0.83
1:I:565:GLN:NE2	1:I:568:LEU:HD11	1.94	0.83
1:I:603:ILE:HD13	1:I:1242:TYR:HE1	1.44	0.83
1:K:603:ILE:HD13	1:K:1242:TYR:HE1	1.44	0.83
1:M:322:LEU:O	1:M:322:LEU:HD22	1.77	0.83
1:M:364:LEU:O	1:M:364:LEU:HD13	1.78	0.83
1:M:1220:LEU:HD23	1:M:1234:THR:CB	2.08	0.83
1:A:284:SER:O	1:A:438:HIS:HE1	1.61	0.83
1:A:473:LEU:CD2	1:A:484:TYR:HE1	1.83	0.83
1:A:500:LEU:CD2	1:A:532:ILE:HG12	2.09	0.83
1:C:999:ARG:NH2	1:C:1000:PHE:O	2.12	0.83
1:E:525:GLU:O	1:E:528:GLU:CG	2.26	0.83
1:E:614:HIS:CE1	1:E:640:GLN:HG3	2.12	0.83
1:G:500:LEU:CD2	1:G:532:ILE:HG12	2.09	0.83

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:500:LEU:CD2	1:I:532:ILE:HG12	2.09	0.83
1:I:591:GLY:O	1:I:592:MET:HB2	1.79	0.83
1:I:604:THR:H	1:I:1240:ILE:HD13	1.44	0.83
1:I:1185:PHE:HD1	1:I:1192:LEU:HG	1.36	0.83
1:K:505:PHE:HZ	1:K:540:VAL:HG11	1.40	0.83
1:K:1149:GLY:CA	1:K:1180:VAL:CG2	2.54	0.83
1:M:403:LEU:O	1:M:403:LEU:HD12	1.77	0.83
1:C:565:GLN:NE2	1:C:568:LEU:HD11	1.94	0.83
1:C:595:LEU:CD1	1:C:1201:TRP:HZ2	1.78	0.83
1:C:1220:LEU:HD23	1:C:1234:THR:CB	2.08	0.83
2:D:33:HIS:HE1	2:D:104:GLU:O	1.61	0.83
1:G:322:LEU:O	1:G:322:LEU:HD22	1.77	0.83
1:G:636:ASP:O	1:G:637:LYS:HD2	1.79	0.83
1:I:636:ASP:O	1:I:637:LYS:HD2	1.79	0.83
1:K:1217:GLY:O	1:K:1218:THR:HG23	1.78	0.83
1:A:603:ILE:HD13	1:A:1242:TYR:HE1	1.44	0.83
1:E:565:GLN:NE2	1:E:568:LEU:HD11	1.94	0.83
1:E:636:ASP:O	1:E:637:LYS:HD2	1.79	0.83
1:C:453:LEU:HD12	1:C:454:GLN:N	1.94	0.82
1:C:591:GLY:O	1:C:592:MET:HB2	1.79	0.82
1:C:603:ILE:HD13	1:C:1242:TYR:HE1	1.44	0.82
1:G:122:ARG:HH21	1:G:126:PHE:HZ	1.23	0.82
1:K:284:SER:O	1:K:438:HIS:HE1	1.61	0.82
1:K:636:ASP:O	1:K:637:LYS:HD2	1.79	0.82
1:M:565:GLN:NE2	1:M:568:LEU:HD11	1.94	0.82
1:M:999:ARG:NH2	1:M:1000:PHE:O	2.12	0.82
1:C:883:SER:OG	1:C:902:ASP:CB	2.26	0.82
1:E:1220:LEU:HD23	1:E:1234:THR:CB	2.08	0.82
1:I:525:GLU:O	1:I:528:GLU:CG	2.26	0.82
1:I:1220:LEU:HD23	1:I:1234:THR:CB	2.08	0.82
1:K:565:GLN:NE2	1:K:568:LEU:HD11	1.94	0.82
1:K:999:ARG:NH2	1:K:1000:PHE:O	2.12	0.82
1:M:500:LEU:CD2	1:M:532:ILE:HG12	2.08	0.82
1:E:505:PHE:CZ	1:E:540:VAL:HG11	2.14	0.82
1:G:505:PHE:CZ	1:G:540:VAL:HG11	2.14	0.82
1:G:525:GLU:O	1:G:528:GLU:CG	2.26	0.82
1:G:883:SER:OG	1:G:902:ASP:CB	2.26	0.82
1:I:883:SER:OG	1:I:902:ASP:CB	2.26	0.82
1:K:525:GLU:O	1:K:528:GLU:CG	2.26	0.82
1:K:862:TYR:HE2	1:K:881:HIS:H	1.28	0.82
1:M:603:ILE:HD13	1:M:1242:TYR:HE1	1.44	0.82

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:525:GLU:O	1:C:528:GLU:CG	2.26	0.82
1:I:1149:GLY:CA	1:I:1180:VAL:CG2	2.54	0.82
1:K:298:PHE:CD2	1:K:328:GLY:HA3	2.15	0.82
1:K:364:LEU:O	1:K:364:LEU:HD13	1.78	0.82
1:A:565:GLN:NE2	1:A:568:LEU:HD11	1.94	0.82
1:C:298:PHE:CD2	1:C:328:GLY:HA3	2.15	0.82
1:E:122:ARG:HH21	1:E:126:PHE:HZ	1.23	0.82
1:E:591:GLY:O	1:E:592:MET:HB2	1.79	0.82
1:M:284:SER:O	1:M:438:HIS:HE1	1.61	0.82
1:A:883:SER:OG	1:A:902:ASP:CB	2.26	0.82
1:C:505:PHE:CZ	1:C:540:VAL:HG11	2.14	0.82
1:E:298:PHE:CD2	1:E:328:GLY:HA3	2.15	0.82
1:E:1179:TRP:HA	1:E:1179:TRP:CE3	2.15	0.82
2:F:33:HIS:HE1	2:F:104:GLU:O	1.61	0.82
1:G:591:GLY:O	1:G:592:MET:HB2	1.79	0.82
1:I:999:ARG:NH2	1:I:1000:PHE:O	2.12	0.82
1:A:1220:LEU:HD23	1:A:1234:THR:CB	2.08	0.82
1:G:603:ILE:HD13	1:G:1242:TYR:HE1	1.44	0.82
1:G:1220:LEU:HD23	1:G:1234:THR:CB	2.08	0.82
1:I:520:ALA:CB	1:I:648:GLU:CB	2.53	0.82
1:K:1220:LEU:HD23	1:K:1234:THR:CB	2.08	0.82
1:M:604:THR:H	1:M:1240:ILE:HD13	1.43	0.82
1:M:1179:TRP:HA	1:M:1179:TRP:CE3	2.15	0.82
1:A:591:GLY:O	1:A:592:MET:HB2	1.79	0.82
1:A:999:ARG:NH2	1:A:1000:PHE:O	2.12	0.82
1:C:1217:GLY:C	1:C:1218:THR:HG23	2.05	0.82
1:E:923:LYS:CB	1:E:940:VAL:CG2	2.54	0.82
1:K:500:LEU:CD2	1:K:532:ILE:HG12	2.09	0.82
1:K:592:MET:HB3	1:K:594:TYR:CE1	2.15	0.82
1:M:477:GLN:HA	1:M:477:GLN:NE2	1.90	0.82
1:A:298:PHE:CD2	1:A:328:GLY:HA3	2.15	0.82
1:A:505:PHE:CZ	1:A:540:VAL:HG11	2.14	0.82
1:C:636:ASP:O	1:C:637:LYS:HD2	1.79	0.82
1:G:453:LEU:HD12	1:G:454:GLN:N	1.94	0.82
1:G:999:ARG:NH2	1:G:1000:PHE:O	2.12	0.82
1:I:453:LEU:HD12	1:I:454:GLN:N	1.94	0.82
1:I:505:PHE:CZ	1:I:540:VAL:HG11	2.14	0.82
1:K:1179:TRP:CE3	1:K:1179:TRP:HA	2.15	0.82
1:M:592:MET:HB3	1:M:594:TYR:CE1	2.15	0.82
1:M:923:LYS:CB	1:M:940:VAL:CG2	2.54	0.82
1:M:1220:LEU:HG	1:M:1236:ASP:HB3	1.62	0.82

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:453:LEU:HD12	1:E:454:GLN:N	1.94	0.82
1:G:565:GLN:NE2	1:G:568:LEU:HD11	1.94	0.82
1:I:298:PHE:CD2	1:I:328:GLY:HA3	2.15	0.82
1:K:453:LEU:HD12	1:K:454:GLN:N	1.94	0.82
1:K:591:GLY:O	1:K:592:MET:HB2	1.79	0.82
1:M:505:PHE:CZ	1:M:540:VAL:HG11	2.14	0.82
1:M:1181:THR:HG21	1:M:1221:LYS:HA	1.61	0.82
1:G:923:LYS:CB	1:G:940:VAL:CG2	2.54	0.81
1:K:1220:LEU:HG	1:K:1236:ASP:HB3	1.62	0.81
1:M:453:LEU:HD12	1:M:454:GLN:N	1.94	0.81
1:M:1232:TYR:OH	1:M:1234:THR:HB	1.80	0.81
2:N:33:HIS:HE1	2:N:104:GLU:O	1.62	0.81
1:A:1232:TYR:OH	1:A:1234:THR:HB	1.80	0.81
1:C:174:LEU:HD23	1:C:175:GLU:N	1.95	0.81
1:I:364:LEU:HD13	1:I:364:LEU:O	1.78	0.81
1:M:505:PHE:HE2	1:M:575:GLU:OE1	1.63	0.81
1:A:505:PHE:HE2	1:A:575:GLU:OE1	1.63	0.81
1:A:592:MET:HB3	1:A:594:TYR:CE1	2.15	0.81
1:A:1181:THR:HG21	1:A:1221:LYS:HA	1.61	0.81
1:C:122:ARG:CZ	1:C:126:PHE:CZ	2.64	0.81
1:C:505:PHE:HE2	1:C:575:GLU:OE1	1.63	0.81
1:C:592:MET:HB3	1:C:594:TYR:CE1	2.15	0.81
1:C:729:ASP:HB2	1:C:736:ARG:HB2	1.62	0.81
1:E:520:ALA:CB	1:E:648:GLU:CB	2.53	0.81
1:E:729:ASP:HB2	1:E:736:ARG:HB2	1.62	0.81
1:E:1217:GLY:C	1:E:1218:THR:HG23	2.05	0.81
1:K:505:PHE:CZ	1:K:540:VAL:HG11	2.14	0.81
1:K:923:LYS:CB	1:K:940:VAL:CG2	2.54	0.81
1:K:1181:THR:HG21	1:K:1221:LYS:HA	1.61	0.81
1:K:1232:TYR:OH	1:K:1234:THR:HB	1.80	0.81
1:M:298:PHE:CD2	1:M:328:GLY:HA3	2.15	0.81
5:N:201:HEM:HBC2	5:N:201:HEM:CMC	2.11	0.81
1:A:729:ASP:HB2	1:A:736:ARG:HB2	1.62	0.81
1:A:1199:ILE:CD1	1:A:1232:TYR:HE2	1.94	0.81
1:E:174:LEU:HD23	1:E:175:GLU:N	1.95	0.81
1:E:592:MET:HB3	1:E:594:TYR:CE1	2.15	0.81
1:E:999:ARG:NH2	1:E:1000:PHE:O	2.12	0.81
1:I:500:LEU:HD23	1:I:533:LEU:CD1	2.10	0.81
1:I:1232:TYR:OH	1:I:1234:THR:HB	1.80	0.81
1:M:636:ASP:O	1:M:637:LYS:HD2	1.79	0.81
1:A:122:ARG:CZ	1:A:126:PHE:CZ	2.64	0.81

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:174:LEU:HD23	1:A:175:GLU:N	1.95	0.81
1:E:505:PHE:HE2	1:E:575:GLU:OE1	1.63	0.81
1:G:361:TYR:HE2	1:G:370:ILE:HG13	1.46	0.81
1:K:505:PHE:HE2	1:K:575:GLU:OE1	1.63	0.81
1:A:657:GLU:HG2	1:A:680:LYS:HZ2	1.44	0.81
1:C:595:LEU:CD1	1:C:1244:LEU:HD22	2.10	0.81
1:G:298:PHE:CD2	1:G:328:GLY:HA3	2.15	0.81
1:G:595:LEU:CD1	1:G:1201:TRP:HZ2	1.78	0.81
1:K:122:ARG:CZ	1:K:126:PHE:CZ	2.64	0.81
1:M:500:LEU:HD23	1:M:533:LEU:CD1	2.10	0.81
1:M:658:ASP:HB2	1:M:678:ASP:HB2	1.63	0.81
1:A:159:GLY:HA2	3:A:1301:DTP:O1A	1.81	0.81
1:A:658:ASP:HB2	1:A:678:ASP:HB2	1.63	0.81
1:A:1233:VAL:CG1	1:A:1243:ILE:HG12	2.10	0.81
1:C:860:SER:O	1:C:861:GLN:CG	2.29	0.81
5:D:201:HEM:HBC2	5:D:201:HEM:CMC	2.11	0.81
1:E:860:SER:O	1:E:861:GLN:CG	2.29	0.81
1:G:592:MET:HB3	1:G:594:TYR:CE1	2.15	0.81
1:G:1179:TRP:HA	1:G:1179:TRP:CE3	2.15	0.81
5:J:201:HEM:HBC2	5:J:201:HEM:CMC	2.11	0.81
1:M:361:TYR:HE2	1:M:370:ILE:HG13	1.46	0.81
1:M:1233:VAL:CG1	1:M:1243:ILE:HG12	2.10	0.81
1:C:1199:ILE:CD1	1:C:1232:TYR:HE2	1.94	0.81
1:E:604:THR:H	1:E:1240:ILE:HD13	1.43	0.81
1:E:1199:ILE:CD1	1:E:1232:TYR:HE2	1.94	0.81
1:G:174:LEU:HD23	1:G:175:GLU:N	1.95	0.81
1:A:361:TYR:CE2	1:A:370:ILE:HG13	2.16	0.81
1:A:636:ASP:O	1:A:637:LYS:HD2	1.79	0.81
1:C:1179:TRP:CE3	1:C:1179:TRP:HA	2.15	0.81
1:E:122:ARG:CZ	1:E:126:PHE:CZ	2.64	0.81
1:E:159:GLY:HA2	3:E:1301:DTP:O1A	1.81	0.81
1:E:595:LEU:CD1	1:E:1244:LEU:HD22	2.10	0.81
1:I:122:ARG:CZ	1:I:126:PHE:CZ	2.64	0.81
1:I:159:GLY:HA2	3:I:1301:DTP:O1A	1.81	0.81
1:I:592:MET:HB3	1:I:594:TYR:CE1	2.15	0.81
1:M:174:LEU:HD23	1:M:175:GLU:N	1.95	0.81
1:M:591:GLY:O	1:M:592:MET:HB2	1.79	0.81
1:A:374:MET:HA	1:A:374:MET:CE	2.10	0.81
1:I:361:TYR:CE2	1:I:370:ILE:HG13	2.16	0.81
1:M:146:GLU:OE1	1:M:147:PRO:CD	2.29	0.81
1:M:729:ASP:HB2	1:M:736:ARG:HB2	1.62	0.81

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:639:LEU:H	1:A:653:ILE:HG21	1.47	0.80
1:C:1232:TYR:OH	1:C:1234:THR:HB	1.80	0.80
1:E:603:ILE:HD13	1:E:1242:TYR:HE1	1.44	0.80
1:G:883:SER:HB2	1:G:902:ASP:HB3	1.63	0.80
1:G:1217:GLY:C	1:G:1218:THR:HG23	2.05	0.80
1:I:1181:THR:HG21	1:I:1221:LYS:HA	1.61	0.80
1:K:604:THR:H	1:K:1240:ILE:HD13	1.44	0.80
1:K:883:SER:HB2	1:K:902:ASP:HB3	1.63	0.80
1:M:374:MET:HA	1:M:374:MET:CE	2.10	0.80
1:A:860:SER:O	1:A:861:GLN:CG	2.29	0.80
1:A:1240:ILE:CG2	1:A:1241:LEU:N	2.45	0.80
1:C:658:ASP:HB2	1:C:678:ASP:HB2	1.63	0.80
1:C:1212:THR:HG23	1:C:1213:PHE:H	1.47	0.80
1:E:1181:THR:HG21	1:E:1221:LYS:HA	1.61	0.80
1:G:860:SER:O	1:G:861:GLN:CG	2.29	0.80
1:G:1151:ILE:H	1:G:1167:PRO:HD2	1.46	0.80
1:I:174:LEU:HD23	1:I:175:GLU:N	1.95	0.80
1:I:1217:GLY:C	1:I:1218:THR:HG23	2.05	0.80
1:K:146:GLU:OE1	1:K:147:PRO:CD	2.29	0.80
1:K:159:GLY:HA2	3:K:1301:DTP:O1A	1.81	0.80
1:A:171:HIS:CD2	1:A:175:GLU:CB	2.63	0.80
1:A:500:LEU:HD23	1:A:533:LEU:CD1	2.10	0.80
1:A:595:LEU:CD1	1:A:1244:LEU:HD22	2.10	0.80
1:A:604:THR:H	1:A:1240:ILE:HD13	1.43	0.80
1:C:171:HIS:CD2	1:C:175:GLU:CB	2.63	0.80
1:E:361:TYR:CE2	1:E:370:ILE:HG13	2.16	0.80
1:E:883:SER:HB2	1:E:902:ASP:HB3	1.63	0.80
1:E:1212:THR:HG23	1:E:1213:PHE:H	1.47	0.80
1:G:171:HIS:CD2	1:G:175:GLU:CB	2.63	0.80
1:K:500:LEU:HD23	1:K:533:LEU:CD1	2.10	0.80
1:K:595:LEU:CD1	1:K:1201:TRP:HZ2	1.78	0.80
1:K:1017:THR:HA	1:K:1031:ASN:HA	1.63	0.80
1:M:122:ARG:CZ	1:M:126:PHE:CZ	2.64	0.80
1:M:361:TYR:CE2	1:M:370:ILE:HG13	2.16	0.80
1:M:883:SER:HB2	1:M:902:ASP:HB3	1.63	0.80
1:A:1217:GLY:C	1:A:1218:THR:HG23	2.05	0.80
1:A:1220:LEU:HG	1:A:1236:ASP:HB3	1.62	0.80
1:C:361:TYR:CE2	1:C:370:ILE:HG13	2.16	0.80
1:C:500:LEU:HD23	1:C:533:LEU:CD1	2.10	0.80
1:E:171:HIS:CD2	1:E:175:GLU:CB	2.63	0.80
1:E:1017:THR:HA	1:E:1031:ASN:HA	1.63	0.80

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:500:LEU:HD23	1:G:533:LEU:CD1	2.10	0.80
1:G:729:ASP:HB2	1:G:736:ARG:HB2	1.62	0.80
1:G:1212:THR:HG23	1:G:1213:PHE:H	1.47	0.80
1:I:1179:TRP:HA	1:I:1179:TRP:CE3	2.15	0.80
1:K:1199:ILE:CD1	1:K:1232:TYR:HE2	1.94	0.80
1:A:146:GLU:OE1	1:A:147:PRO:CD	2.29	0.80
1:C:1017:THR:HA	1:C:1031:ASN:HA	1.63	0.80
1:C:1233:VAL:CG1	1:C:1243:ILE:HG12	2.10	0.80
1:E:500:LEU:HD23	1:E:533:LEU:CD1	2.10	0.80
1:E:520:ALA:CB	1:E:648:GLU:CA	2.60	0.80
1:A:633:CYS:SG	1:A:660:VAL:HG11	2.22	0.80
1:A:1151:ILE:H	1:A:1167:PRO:HD2	1.46	0.80
1:A:1212:THR:HG23	1:A:1213:PHE:H	1.47	0.80
1:E:639:LEU:H	1:E:653:ILE:HG21	1.47	0.80
1:G:159:GLY:HA2	3:G:1301:DTP:O1A	1.81	0.80
1:I:146:GLU:OE1	1:I:147:PRO:CD	2.29	0.80
1:I:153:HIS:CD2	1:I:267:LYS:HB3	2.17	0.80
1:I:633:CYS:SG	1:I:660:VAL:HG11	2.22	0.80
1:I:883:SER:HB2	1:I:902:ASP:HB3	1.63	0.80
1:I:1212:THR:HG23	1:I:1213:PHE:H	1.47	0.80
1:I:1240:ILE:CG2	1:I:1241:LEU:N	2.45	0.80
1:K:639:LEU:H	1:K:653:ILE:HG21	1.46	0.80
1:K:1233:VAL:CG1	1:K:1243:ILE:HG12	2.10	0.80
1:M:860:SER:O	1:M:861:GLN:CG	2.29	0.80
1:C:374:MET:HA	1:C:374:MET:CE	2.10	0.80
1:E:1220:LEU:HG	1:E:1236:ASP:HB3	1.62	0.80
1:G:903:ASP:O	1:G:1175:THR:CG2	2.30	0.80
1:G:1181:THR:HG21	1:G:1221:LYS:HA	1.61	0.80
1:K:174:LEU:HD23	1:K:175:GLU:N	1.95	0.80
1:K:860:SER:O	1:K:861:GLN:CG	2.29	0.80
1:A:883:SER:HB2	1:A:902:ASP:HB3	1.63	0.80
1:C:159:GLY:HA2	3:C:1301:DTP:O1A	1.81	0.80
1:C:1181:THR:HG21	1:C:1221:LYS:HA	1.61	0.80
1:C:1240:ILE:CG2	1:C:1241:LEU:N	2.45	0.80
1:E:633:CYS:SG	1:E:660:VAL:HG11	2.22	0.80
1:G:633:CYS:SG	1:G:660:VAL:HG11	2.22	0.80
1:I:171:HIS:CD2	1:I:175:GLU:CB	2.63	0.80
1:I:860:SER:O	1:I:861:GLN:CG	2.29	0.80
1:K:597:TRP:CH2	1:K:603:ILE:CD1	2.65	0.80
1:K:1212:THR:HG23	1:K:1213:PHE:H	1.46	0.80
1:C:427:ASP:OD2	1:C:434:ARG:CG	2.30	0.80

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:883:SER:HB2	1:C:902:ASP:HB3	1.63	0.80
1:E:153:HIS:CD2	1:E:267:LYS:HB3	2.17	0.80
1:E:1232:TYR:OH	1:E:1234:THR:HB	1.80	0.80
1:G:1232:TYR:OH	1:G:1234:THR:HB	1.80	0.80
1:G:1233:VAL:CG1	1:G:1243:ILE:HG12	2.10	0.80
1:I:505:PHE:HE2	1:I:575:GLU:OE1	1.63	0.80
1:K:153:HIS:CD2	1:K:267:LYS:HB3	2.17	0.80
1:K:520:ALA:CB	1:K:648:GLU:CB	2.53	0.80
1:K:1217:GLY:C	1:K:1218:THR:HG23	2.05	0.80
1:M:1017:THR:HA	1:M:1031:ASN:HA	1.63	0.80
1:M:1212:THR:HG23	1:M:1213:PHE:H	1.46	0.80
1:A:1179:TRP:HA	1:A:1179:TRP:CE3	2.15	0.80
1:C:153:HIS:CD2	1:C:267:LYS:HB3	2.17	0.80
1:C:1220:LEU:HG	1:C:1236:ASP:HB3	1.62	0.80
1:G:658:ASP:HB2	1:G:678:ASP:HB2	1.63	0.80
1:I:999:ARG:HG2	1:I:1030:TRP:CG	2.17	0.80
1:I:1220:LEU:HG	1:I:1236:ASP:HB3	1.62	0.80
1:K:374:MET:HA	1:K:374:MET:CE	2.10	0.80
1:M:122:ARG:HH21	1:M:126:PHE:HZ	1.23	0.80
1:M:171:HIS:CD2	1:M:175:GLU:CB	2.63	0.80
1:A:427:ASP:OD2	1:A:434:ARG:CG	2.30	0.79
1:A:903:ASP:O	1:A:1175:THR:CG2	2.30	0.79
1:E:146:GLU:OE1	1:E:147:PRO:CD	2.29	0.79
1:E:999:ARG:HG2	1:E:1030:TRP:CG	2.17	0.79
1:E:1233:VAL:CG1	1:E:1243:ILE:HG12	2.10	0.79
1:G:361:TYR:CE2	1:G:370:ILE:HG13	2.16	0.79
1:G:520:ALA:CB	1:G:648:GLU:CA	2.60	0.79
1:G:999:ARG:HG2	1:G:1030:TRP:CG	2.17	0.79
1:M:153:HIS:CD2	1:M:267:LYS:HB3	2.17	0.79
1:M:159:GLY:HA2	3:M:1301:DTP:O1A	1.81	0.79
1:M:1240:ILE:CG2	1:M:1241:LEU:N	2.45	0.79
1:C:633:CYS:SG	1:C:660:VAL:HG11	2.22	0.79
1:E:903:ASP:O	1:E:1175:THR:CG2	2.30	0.79
1:G:122:ARG:CZ	1:G:126:PHE:CZ	2.64	0.79
1:G:427:ASP:OD2	1:G:434:ARG:CG	2.30	0.79
1:G:505:PHE:HE2	1:G:575:GLU:OE1	1.63	0.79
1:G:1240:ILE:CG2	1:G:1241:LEU:N	2.45	0.79
1:K:658:ASP:HB2	1:K:678:ASP:HB2	1.63	0.79
1:M:633:CYS:SG	1:M:660:VAL:HG11	2.22	0.79
1:M:862:TYR:HE2	1:M:881:HIS:H	1.28	0.79
1:M:1151:ILE:H	1:M:1167:PRO:HD2	1.46	0.79

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:146:GLU:OE1	1:C:147:PRO:CD	2.29	0.79
1:C:1194:SER:HB3	1:C:1202:TRP:HZ3	1.47	0.79
1:E:195:LEU:HD12	1:E:195:LEU:O	1.83	0.79
1:I:903:ASP:O	1:I:1175:THR:CG2	2.30	0.79
1:K:1240:ILE:CG2	1:K:1241:LEU:N	2.45	0.79
1:M:520:ALA:CB	1:M:648:GLU:CA	2.60	0.79
1:M:1199:ILE:CD1	1:M:1232:TYR:HE2	1.94	0.79
1:M:1217:GLY:C	1:M:1218:THR:HG23	2.05	0.79
1:C:195:LEU:HD12	1:C:195:LEU:O	1.83	0.79
1:G:153:HIS:CD2	1:G:267:LYS:HB3	2.17	0.79
1:G:513:LYS:O	1:G:517:VAL:HB	1.83	0.79
1:G:595:LEU:CD1	1:G:1244:LEU:HD22	2.10	0.79
1:G:1017:THR:HA	1:G:1031:ASN:HA	1.63	0.79
1:I:1199:ILE:CD1	1:I:1232:TYR:HE2	1.94	0.79
1:I:1233:VAL:CG1	1:I:1243:ILE:HG12	2.10	0.79
1:K:171:HIS:CD2	1:K:175:GLU:CB	2.63	0.79
1:K:633:CYS:SG	1:K:660:VAL:HG11	2.22	0.79
1:A:603:ILE:HD12	1:A:604:THR:OG1	1.82	0.79
1:C:146:GLU:O	1:C:147:PRO:O	2.01	0.79
1:E:427:ASP:OD2	1:E:434:ARG:CG	2.30	0.79
5:F:201:HEM:HBC2	5:F:201:HEM:CMC	2.11	0.79
1:G:146:GLU:OE1	1:G:147:PRO:CD	2.29	0.79
1:I:427:ASP:OD2	1:I:434:ARG:CG	2.30	0.79
1:I:1017:THR:HA	1:I:1031:ASN:HA	1.63	0.79
1:I:1151:ILE:H	1:I:1167:PRO:HD2	1.46	0.79
1:I:1233:VAL:HB	1:I:1242:TYR:O	1.83	0.79
1:K:361:TYR:CE2	1:K:370:ILE:HG13	2.16	0.79
1:K:513:LYS:O	1:K:517:VAL:HB	1.83	0.79
1:K:729:ASP:HB2	1:K:736:ARG:HB2	1.62	0.79
1:K:1203:ASN:H	1:K:1208:GLU:HA	1.48	0.79
1:M:217:PRO:HB3	1:M:222:GLU:HG2	1.64	0.79
1:A:999:ARG:HG2	1:A:1030:TRP:CG	2.17	0.79
1:C:903:ASP:O	1:C:1175:THR:CG2	2.30	0.79
1:E:217:PRO:HB3	1:E:222:GLU:HG2	1.64	0.79
1:E:1151:ILE:H	1:E:1167:PRO:HD2	1.46	0.79
1:G:1199:ILE:CD1	1:G:1232:TYR:HE2	1.94	0.79
1:G:1220:LEU:HG	1:G:1236:ASP:HB3	1.62	0.79
1:K:195:LEU:O	1:K:195:LEU:HD12	1.83	0.79
1:K:217:PRO:HB3	1:K:222:GLU:HG2	1.64	0.79
1:K:520:ALA:CB	1:K:648:GLU:CA	2.60	0.79
1:M:603:ILE:HD12	1:M:604:THR:OG1	1.82	0.79

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:1203:ASN:H	1:M:1208:GLU:HA	1.48	0.79
1:A:146:GLU:O	1:A:147:PRO:O	2.01	0.79
1:A:153:HIS:CD2	1:A:267:LYS:HB3	2.17	0.79
1:A:1017:THR:HA	1:A:1031:ASN:HA	1.63	0.79
1:C:513:LYS:O	1:C:517:VAL:HB	1.83	0.79
1:E:361:TYR:HE2	1:E:370:ILE:HG13	1.46	0.79
1:M:427:ASP:OD2	1:M:434:ARG:CG	2.30	0.79
1:M:903:ASP:O	1:M:1175:THR:CG2	2.30	0.79
1:G:1194:SER:HB3	1:G:1202:TRP:HZ3	1.47	0.79
1:I:1203:ASN:H	1:I:1208:GLU:HA	1.48	0.79
1:K:361:TYR:HE2	1:K:370:ILE:HG13	1.46	0.79
1:K:419:VAL:CG1	1:K:426:CYS:SG	2.71	0.79
1:M:657:GLU:HG2	1:M:680:LYS:HZ2	1.46	0.79
1:A:195:LEU:HD12	1:A:195:LEU:O	1.83	0.79
1:A:1194:SER:HB3	1:A:1202:TRP:HZ3	1.47	0.79
1:G:639:LEU:HD23	1:G:653:ILE:CD1	2.13	0.79
1:I:520:ALA:CB	1:I:648:GLU:CA	2.60	0.79
1:K:903:ASP:O	1:K:1175:THR:CG2	2.30	0.79
1:M:999:ARG:HG2	1:M:1030:TRP:CG	2.17	0.79
1:A:529:TYR:O	1:A:532:ILE:CG2	2.31	0.79
1:C:603:ILE:HD12	1:C:604:THR:OG1	1.82	0.79
1:E:374:MET:HA	1:E:374:MET:CE	2.10	0.79
1:E:513:LYS:O	1:E:517:VAL:HB	1.83	0.79
1:I:419:VAL:CG1	1:I:426:CYS:SG	2.71	0.79
1:I:513:LYS:O	1:I:517:VAL:HB	1.83	0.79
1:I:639:LEU:HD23	1:I:653:ILE:CD1	2.13	0.79
1:K:427:ASP:OD2	1:K:434:ARG:CG	2.30	0.79
1:A:513:LYS:O	1:A:517:VAL:HB	1.83	0.78
1:A:1203:ASN:H	1:A:1208:GLU:HA	1.48	0.78
1:C:866:LEU:HD22	1:C:914:VAL:HB	1.65	0.78
1:E:419:VAL:CG1	1:E:426:CYS:SG	2.71	0.78
1:G:108:SER:O	1:G:111:ARG:CG	2.31	0.78
1:G:195:LEU:HD12	1:G:195:LEU:O	1.83	0.78
1:G:419:VAL:CG1	1:G:426:CYS:SG	2.71	0.78
1:G:1183:LEU:HB3	1:G:1192:LEU:CD2	2.14	0.78
1:G:1203:ASN:H	1:G:1208:GLU:HA	1.48	0.78
1:I:195:LEU:HD12	1:I:195:LEU:O	1.83	0.78
1:I:639:LEU:H	1:I:653:ILE:HG21	1.46	0.78
1:I:658:ASP:HB2	1:I:678:ASP:HB2	1.63	0.78
1:K:108:SER:O	1:K:111:ARG:CG	2.31	0.78
1:K:603:ILE:HD12	1:K:604:THR:OG1	1.82	0.78

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:771:ASP:HB2	1:K:778:ARG:HB2	1.66	0.78
1:K:999:ARG:HG2	1:K:1030:TRP:CG	2.17	0.78
1:M:195:LEU:HD12	1:M:195:LEU:O	1.83	0.78
1:C:122:ARG:HH21	1:C:126:PHE:HZ	1.24	0.78
1:C:361:TYR:HE2	1:C:370:ILE:HG13	1.46	0.78
1:C:529:TYR:O	1:C:532:ILE:CG2	2.31	0.78
1:C:1183:LEU:HB3	1:C:1192:LEU:HD21	1.64	0.78
1:E:603:ILE:HD12	1:E:604:THR:OG1	1.82	0.78
1:E:1194:SER:HB3	1:E:1202:TRP:HZ3	1.47	0.78
1:G:217:PRO:HB3	1:G:222:GLU:HG2	1.64	0.78
5:L:201:HEM:HBC2	5:L:201:HEM:CMC	2.11	0.78
1:M:595:LEU:CD1	1:M:1244:LEU:HD22	2.10	0.78
1:M:1233:VAL:HB	1:M:1242:TYR:O	1.83	0.78
1:A:361:TYR:HE2	1:A:370:ILE:HG13	1.45	0.78
1:A:520:ALA:CB	1:A:648:GLU:CA	2.60	0.78
1:A:1183:LEU:HB3	1:A:1192:LEU:HD21	1.64	0.78
1:C:1183:LEU:HB3	1:C:1192:LEU:CD2	2.14	0.78
1:C:1233:VAL:HB	1:C:1242:TYR:O	1.83	0.78
1:E:1203:ASN:H	1:E:1208:GLU:HA	1.48	0.78
1:I:374:MET:HA	1:I:374:MET:CE	2.10	0.78
1:I:729:ASP:HB2	1:I:736:ARG:HB2	1.62	0.78
1:I:771:ASP:HB2	1:I:778:ARG:HB2	1.66	0.78
1:K:639:LEU:HD23	1:K:653:ILE:CD1	2.13	0.78
1:M:146:GLU:O	1:M:147:PRO:O	2.01	0.78
1:A:108:SER:O	1:A:111:ARG:CG	2.31	0.78
1:C:883:SER:OG	1:C:902:ASP:HB2	1.83	0.78
1:C:999:ARG:HG2	1:C:1030:TRP:CG	2.17	0.78
1:C:1203:ASN:H	1:C:1208:GLU:HA	1.48	0.78
1:E:866:LEU:HD22	1:E:914:VAL:HB	1.65	0.78
1:E:883:SER:OG	1:E:902:ASP:HB2	1.83	0.78
1:G:614:HIS:HE1	1:G:640:GLN:CG	1.83	0.78
1:G:639:LEU:H	1:G:653:ILE:HG21	1.46	0.78
1:G:903:ASP:O	1:G:904:GLN:HB2	1.83	0.78
1:K:1151:ILE:H	1:K:1167:PRO:HD2	1.46	0.78
1:M:108:SER:O	1:M:111:ARG:CG	2.31	0.78
1:M:639:LEU:H	1:M:653:ILE:HG21	1.47	0.78
1:A:217:PRO:HB3	1:A:222:GLU:HG2	1.64	0.78
1:A:866:LEU:HD22	1:A:914:VAL:HB	1.65	0.78
1:C:1194:SER:HG	1:C:1202:TRP:HE3	1.29	0.78
1:E:108:SER:O	1:E:111:ARG:CG	2.31	0.78
1:E:146:GLU:O	1:E:147:PRO:O	2.01	0.78

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1233:VAL:HB	1:E:1242:TYR:O	1.83	0.78
1:I:597:TRP:CH2	1:I:603:ILE:CD1	2.65	0.78
1:I:603:ILE:HD12	1:I:604:THR:OG1	1.82	0.78
1:M:771:ASP:HB2	1:M:778:ARG:HB2	1.66	0.78
1:M:1194:SER:HB3	1:M:1202:TRP:HZ3	1.47	0.78
1:A:1183:LEU:HB3	1:A:1192:LEU:CD2	2.13	0.78
1:A:1233:VAL:HB	1:A:1242:TYR:O	1.83	0.78
1:E:658:ASP:HB2	1:E:678:ASP:HB2	1.63	0.78
1:G:603:ILE:HD12	1:G:604:THR:OG1	1.82	0.78
1:K:1194:SER:HB3	1:K:1202:TRP:HZ3	1.47	0.78
1:K:1233:VAL:HB	1:K:1242:TYR:O	1.83	0.78
1:M:364:LEU:HD11	1:M:368:MET:CE	2.14	0.78
1:A:639:LEU:HD23	1:A:653:ILE:CD1	2.13	0.78
1:G:480:CYS:O	1:G:483:TRP:HB2	1.84	0.78
1:I:862:TYR:H	1:I:884:TRP:HD1	1.30	0.78
1:K:480:CYS:O	1:K:483:TRP:HB2	1.84	0.78
1:M:529:TYR:O	1:M:532:ILE:CG2	2.31	0.78
1:M:1183:LEU:HB3	1:M:1192:LEU:CD2	2.14	0.78
1:A:419:VAL:CG1	1:A:426:CYS:SG	2.71	0.78
1:C:364:LEU:HD11	1:C:368:MET:CE	2.14	0.78
1:C:639:LEU:H	1:C:653:ILE:HG21	1.47	0.78
1:E:1183:LEU:HB3	1:E:1192:LEU:HD21	1.64	0.78
1:G:364:LEU:HD11	1:G:368:MET:CE	2.14	0.78
1:C:419:VAL:CG1	1:C:426:CYS:SG	2.71	0.78
1:C:1151:ILE:H	1:C:1167:PRO:HD2	1.46	0.78
1:E:334:PHE:CB	1:E:337:ARG:HD2	2.14	0.78
1:E:1183:LEU:HB3	1:E:1192:LEU:CD2	2.14	0.78
1:E:1240:ILE:CG2	1:E:1241:LEU:N	2.45	0.78
1:G:374:MET:HA	1:G:374:MET:CE	2.10	0.78
1:G:529:TYR:O	1:G:532:ILE:CG2	2.31	0.78
1:I:217:PRO:HB3	1:I:222:GLU:HG2	1.64	0.78
1:E:597:TRP:CH2	1:E:603:ILE:CD1	2.65	0.78
1:E:1167:PRO:CB	1:E:1202:TRP:CD2	2.63	0.78
1:G:771:ASP:HB2	1:G:778:ARG:HB2	1.66	0.78
1:G:1233:VAL:HB	1:G:1242:TYR:O	1.83	0.78
1:I:108:SER:O	1:I:111:ARG:CG	2.31	0.78
1:I:146:GLU:O	1:I:147:PRO:O	2.01	0.78
1:I:883:SER:OG	1:I:902:ASP:HB2	1.83	0.78
1:I:903:ASP:O	1:I:904:GLN:HB2	1.83	0.78
1:A:883:SER:OG	1:A:902:ASP:HB2	1.83	0.77
1:A:902:ASP:CG	2:B:72:LYS:NZ	2.42	0.77

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:262:LEU:HD21	1:G:270:THR:HG21	1.66	0.77
5:H:201:HEM:HBC2	5:H:201:HEM:CMC	2.11	0.77
1:I:364:LEU:HD11	1:I:368:MET:CE	2.14	0.77
1:M:419:VAL:CG1	1:M:426:CYS:SG	2.71	0.77
1:M:883:SER:OG	1:M:902:ASP:HB2	1.83	0.77
1:C:217:PRO:HB3	1:C:222:GLU:HG2	1.64	0.77
1:C:639:LEU:HD23	1:C:653:ILE:CD1	2.13	0.77
1:E:529:TYR:O	1:E:532:ILE:CG2	2.31	0.77
1:E:903:ASP:O	1:E:904:GLN:HB2	1.83	0.77
1:G:866:LEU:HD22	1:G:914:VAL:HB	1.65	0.77
1:G:883:SER:OG	1:G:902:ASP:HB2	1.83	0.77
1:G:1183:LEU:HB3	1:G:1192:LEU:HD21	1.64	0.77
1:I:262:LEU:HD21	1:I:270:THR:HG21	1.66	0.77
1:I:529:TYR:O	1:I:532:ILE:CG2	2.31	0.77
1:K:1183:LEU:HB3	1:K:1192:LEU:CD2	2.14	0.77
1:E:140:LEU:O	1:E:140:LEU:HD13	1.84	0.77
1:E:771:ASP:HB2	1:E:778:ARG:HB2	1.66	0.77
1:I:361:TYR:HE2	1:I:370:ILE:HG13	1.46	0.77
1:K:364:LEU:HD11	1:K:368:MET:CE	2.14	0.77
1:M:639:LEU:HD23	1:M:653:ILE:CD1	2.13	0.77
1:A:480:CYS:O	1:A:483:TRP:HB2	1.84	0.77
1:C:902:ASP:CG	2:D:72:LYS:NZ	2.42	0.77
2:D:18:HIS:CE1	2:D:29:GLY:CA	2.66	0.77
1:G:140:LEU:O	1:G:140:LEU:HD13	1.84	0.77
1:G:334:PHE:CB	1:G:337:ARG:HD2	2.14	0.77
1:I:334:PHE:CB	1:I:337:ARG:HD2	2.14	0.77
1:I:902:ASP:CG	2:J:72:LYS:NZ	2.42	0.77
1:K:140:LEU:O	1:K:140:LEU:HD13	1.84	0.77
1:K:146:GLU:O	1:K:147:PRO:O	2.01	0.77
1:M:386:LEU:HD11	1:M:424:LEU:HD22	1.67	0.77
1:A:364:LEU:HD11	1:A:368:MET:CE	2.14	0.77
1:C:108:SER:O	1:C:111:ARG:CG	2.31	0.77
1:E:262:LEU:HD21	1:E:270:THR:HG21	1.66	0.77
1:E:844:GLN:OE1	1:E:860:SER:HA	1.85	0.77
1:K:595:LEU:CD1	1:K:1244:LEU:HD22	2.10	0.77
1:K:902:ASP:CG	2:L:72:LYS:NZ	2.42	0.77
1:M:140:LEU:O	1:M:140:LEU:HD13	1.84	0.77
1:M:902:ASP:CG	2:N:72:LYS:NZ	2.42	0.77
1:M:1183:LEU:HB3	1:M:1192:LEU:HD21	1.64	0.77
1:A:140:LEU:HD13	1:A:140:LEU:O	1.84	0.77
1:A:149:TRP:CH2	1:A:273:VAL:HG11	2.20	0.77

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1167:PRO:CB	1:C:1202:TRP:CD2	2.63	0.77
1:C:1179:TRP:HA	1:C:1179:TRP:HE3	1.50	0.77
1:E:149:TRP:CH2	1:E:273:VAL:HG11	2.20	0.77
1:E:639:LEU:HD23	1:E:653:ILE:CD1	2.13	0.77
1:I:595:LEU:CD1	1:I:1244:LEU:HD22	2.10	0.77
1:K:903:ASP:O	1:K:904:GLN:HB2	1.83	0.77
1:M:866:LEU:HD22	1:M:914:VAL:HB	1.65	0.77
2:N:18:HIS:CE1	2:N:29:GLY:CA	2.66	0.77
1:A:438:HIS:O	1:A:442:VAL:HG23	1.85	0.77
1:C:264:THR:OG1	1:C:265:ARG:N	2.16	0.77
1:C:657:GLU:HG2	1:C:680:LYS:HZ2	1.48	0.77
1:C:932:GLU:OE1	1:C:933:ASN:ND2	2.17	0.77
1:E:364:LEU:HD11	1:E:368:MET:CE	2.14	0.77
1:G:149:TRP:CH2	1:G:273:VAL:HG11	2.20	0.77
1:K:386:LEU:HD11	1:K:424:LEU:HD22	1.67	0.77
1:M:573:THR:O	1:M:577:TYR:HB3	1.85	0.77
1:A:161:SER:HB2	3:A:1301:DTP:O2A	1.85	0.77
1:A:771:ASP:HB2	1:A:778:ARG:HB2	1.66	0.77
1:A:1179:TRP:HA	1:A:1179:TRP:HE3	1.50	0.77
1:C:149:TRP:CH2	1:C:273:VAL:HG11	2.20	0.77
1:C:480:CYS:O	1:C:483:TRP:HB2	1.84	0.77
1:C:771:ASP:HB2	1:C:778:ARG:HB2	1.66	0.77
1:G:573:THR:O	1:G:577:TYR:HB3	1.85	0.77
1:I:1183:LEU:HB3	1:I:1192:LEU:HD21	1.64	0.77
1:I:1183:LEU:HB3	1:I:1192:LEU:CD2	2.14	0.77
1:K:529:TYR:O	1:K:532:ILE:CG2	2.31	0.77
1:K:883:SER:OG	1:K:902:ASP:HB2	1.83	0.77
1:M:179:PRO:HD2	1:M:237:ARG:NH1	1.88	0.77
1:M:513:LYS:O	1:M:517:VAL:HB	1.83	0.77
1:M:903:ASP:O	1:M:904:GLN:HB2	1.83	0.77
1:C:161:SER:HB2	3:C:1301:DTP:O2A	1.85	0.77
1:C:334:PHE:CB	1:C:337:ARG:HD2	2.14	0.77
1:C:595:LEU:CD1	1:C:1201:TRP:CH2	2.67	0.77
1:C:884:TRP:CE3	1:C:885:VAL:O	2.38	0.77
1:E:161:SER:HB2	3:E:1301:DTP:O2A	1.85	0.77
1:E:1176:HIS:HB3	1:E:1218:THR:HG21	1.67	0.77
1:G:450:CYS:O	1:G:453:LEU:HG	1.85	0.77
1:I:884:TRP:CE3	1:I:885:VAL:O	2.38	0.77
1:K:334:PHE:CB	1:K:337:ARG:HD2	2.14	0.77
1:K:844:GLN:OE1	1:K:860:SER:HA	1.85	0.77
1:K:884:TRP:CE3	1:K:885:VAL:O	2.38	0.77

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:149:TRP:CH2	1:M:273:VAL:HG11	2.20	0.77
1:M:1167:PRO:CB	1:M:1202:TRP:CD2	2.63	0.77
1:C:520:ALA:CB	1:C:648:GLU:CA	2.60	0.77
1:I:450:CYS:O	1:I:453:LEU:HG	1.85	0.77
1:M:844:GLN:OE1	1:M:860:SER:HA	1.85	0.77
1:M:1179:TRP:HA	1:M:1179:TRP:HE3	1.50	0.77
1:A:573:THR:O	1:A:577:TYR:HB3	1.85	0.76
1:C:140:LEU:O	1:C:140:LEU:HD13	1.84	0.76
1:C:438:HIS:O	1:C:442:VAL:HG23	1.85	0.76
1:C:1176:HIS:HB3	1:C:1218:THR:HG21	1.67	0.76
1:E:1179:TRP:HA	1:E:1179:TRP:HE3	1.50	0.76
1:G:902:ASP:CG	2:H:72:LYS:NZ	2.42	0.76
1:I:149:TRP:CH2	1:I:273:VAL:HG11	2.20	0.76
2:J:18:HIS:CE1	2:J:29:GLY:CA	2.66	0.76
1:K:450:CYS:O	1:K:453:LEU:HG	1.85	0.76
1:M:161:SER:HB2	3:M:1301:DTP:O2A	1.85	0.76
1:M:285:SER:O	1:M:319:GLY:CA	2.29	0.76
1:M:438:HIS:O	1:M:442:VAL:HG23	1.85	0.76
1:A:179:PRO:HD2	1:A:237:ARG:NH1	1.88	0.76
1:A:884:TRP:CE3	1:A:885:VAL:O	2.38	0.76
1:C:903:ASP:O	1:C:904:GLN:HB2	1.83	0.76
1:E:902:ASP:CG	2:F:72:LYS:NZ	2.42	0.76
1:G:932:GLU:OE1	1:G:933:ASN:ND2	2.18	0.76
1:G:1176:HIS:HB3	1:G:1218:THR:HG21	1.67	0.76
1:I:480:CYS:O	1:I:483:TRP:HB2	1.84	0.76
1:I:932:GLU:OE1	1:I:933:ASN:ND2	2.18	0.76
1:K:262:LEU:HD21	1:K:270:THR:HG21	1.66	0.76
1:K:1183:LEU:HB3	1:K:1192:LEU:HD21	1.64	0.76
1:A:334:PHE:CB	1:A:337:ARG:HD2	2.14	0.76
1:E:450:CYS:O	1:E:453:LEU:HG	1.85	0.76
1:E:932:GLU:OE1	1:E:933:ASN:ND2	2.17	0.76
1:G:146:GLU:O	1:G:147:PRO:O	2.01	0.76
1:G:884:TRP:CE3	1:G:885:VAL:O	2.38	0.76
1:I:386:LEU:HD11	1:I:424:LEU:HD22	1.67	0.76
1:I:573:THR:O	1:I:577:TYR:HB3	1.85	0.76
1:I:844:GLN:OE1	1:I:860:SER:HA	1.85	0.76
1:I:866:LEU:HD22	1:I:914:VAL:HB	1.65	0.76
1:K:149:TRP:CH2	1:K:273:VAL:HG11	2.20	0.76
1:K:573:THR:O	1:K:577:TYR:HB3	1.85	0.76
1:K:866:LEU:HD22	1:K:914:VAL:HB	1.65	0.76
1:K:1167:PRO:CB	1:K:1202:TRP:CD2	2.63	0.76

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:1218:THR:O	1:K:1236:ASP:CB	2.32	0.76
2:L:18:HIS:CE1	2:L:29:GLY:CA	2.66	0.76
1:M:334:PHE:CB	1:M:337:ARG:HD2	2.14	0.76
1:M:614:HIS:HE1	1:M:640:GLN:CG	1.83	0.76
1:C:862:TYR:HE2	1:C:881:HIS:H	1.28	0.76
1:G:386:LEU:HD11	1:G:424:LEU:HD22	1.67	0.76
1:G:1167:PRO:CB	1:G:1202:TRP:CD2	2.63	0.76
1:I:140:LEU:HD13	1:I:140:LEU:O	1.84	0.76
1:K:1179:TRP:HA	1:K:1179:TRP:HE3	1.50	0.76
1:M:262:LEU:HD21	1:M:270:THR:HG21	1.66	0.76
1:A:844:GLN:OE1	1:A:860:SER:HA	1.85	0.76
1:A:932:GLU:OE1	1:A:933:ASN:ND2	2.17	0.76
1:C:844:GLN:OE1	1:C:860:SER:HA	1.85	0.76
1:G:161:SER:HB2	3:G:1301:DTP:O2A	1.85	0.76
1:G:1179:TRP:HA	1:G:1179:TRP:HE3	1.50	0.76
1:I:427:ASP:OD2	1:I:434:ARG:HG2	1.86	0.76
1:K:161:SER:HB2	3:K:1301:DTP:O2A	1.85	0.76
1:K:453:LEU:CD1	1:K:454:GLN:HE21	1.97	0.76
1:K:932:GLU:OE1	1:K:933:ASN:ND2	2.18	0.76
1:M:317:CYS:C	1:M:318:LYS:HG2	2.11	0.76
1:M:480:CYS:O	1:M:483:TRP:HB2	1.84	0.76
1:M:920:VAL:HG12	1:M:921:MET:H	1.51	0.76
1:A:264:THR:OG1	1:A:265:ARG:N	2.16	0.76
1:A:427:ASP:OD2	1:A:434:ARG:HG2	1.86	0.76
1:A:597:TRP:CH2	1:A:603:ILE:CD1	2.65	0.76
1:E:657:GLU:HG2	1:E:680:LYS:HZ2	1.48	0.76
1:E:862:TYR:HE2	1:E:881:HIS:H	1.28	0.76
1:E:884:TRP:CE3	1:E:885:VAL:O	2.38	0.76
1:G:597:TRP:CH2	1:G:603:ILE:CD1	2.65	0.76
1:G:658:ASP:OD2	1:G:677:VAL:CB	2.34	0.76
1:I:920:VAL:C	1:I:921:MET:HG2	2.11	0.76
1:I:1194:SER:CB	1:I:1202:TRP:CE3	2.69	0.76
1:K:920:VAL:C	1:K:921:MET:HG2	2.11	0.76
1:A:317:CYS:C	1:A:318:LYS:HG2	2.11	0.76
1:A:561:PRO:O	1:A:563:ILE:HD13	1.86	0.76
1:C:386:LEU:HD11	1:C:424:LEU:HD22	1.67	0.76
1:C:450:CYS:O	1:C:453:LEU:HG	1.85	0.76
1:E:480:CYS:O	1:E:483:TRP:HB2	1.84	0.76
1:G:427:ASP:OD2	1:G:434:ARG:HG2	1.86	0.76
1:G:438:HIS:O	1:G:442:VAL:HG23	1.85	0.76
1:G:920:VAL:C	1:G:921:MET:HG2	2.11	0.76

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:461:ILE:CD1	1:I:491:MET:HG2	2.16	0.76
1:K:1048:LYS:H	1:K:1062:SER:HA	1.51	0.76
1:M:561:PRO:O	1:M:563:ILE:HD13	1.86	0.76
1:M:884:TRP:CE3	1:M:885:VAL:O	2.38	0.76
5:B:201:HEM:HBC2	5:B:201:HEM:CMC	2.11	0.76
1:C:554:LEU:HD11	1:C:1214:TYR:CE1	2.21	0.76
1:E:592:MET:N	1:E:592:MET:HE2	2.01	0.76
1:G:179:PRO:CG	1:G:237:ARG:NH1	2.49	0.76
1:G:657:GLU:HG2	1:G:680:LYS:HZ1	1.49	0.76
1:G:844:GLN:OE1	1:G:860:SER:HA	1.85	0.76
1:G:862:TYR:HE2	1:G:881:HIS:H	1.28	0.76
1:I:948:LEU:CD1	1:I:957:ASP:OD2	2.34	0.76
1:I:1176:HIS:HB3	1:I:1218:THR:HG21	1.67	0.76
1:I:1194:SER:HB3	1:I:1202:TRP:HZ3	1.47	0.76
1:K:561:PRO:O	1:K:563:ILE:HD13	1.86	0.76
1:M:875:VAL:HG12	1:M:915:CYS:HA	1.68	0.76
1:M:1048:LYS:H	1:M:1062:SER:HA	1.51	0.76
1:A:554:LEU:HD11	1:A:1214:TYR:CE1	2.21	0.76
1:A:658:ASP:OD2	1:A:677:VAL:CB	2.34	0.76
1:C:1194:SER:CB	1:C:1202:TRP:CE3	2.69	0.76
1:E:264:THR:OG1	1:E:265:ARG:N	2.16	0.76
1:E:1194:SER:CB	1:E:1202:TRP:CE3	2.69	0.76
1:I:438:HIS:O	1:I:442:VAL:HG23	1.85	0.76
1:I:1048:LYS:H	1:I:1062:SER:HA	1.51	0.76
1:M:461:ILE:CD1	1:M:491:MET:HG2	2.16	0.76
1:M:637:LYS:HA	1:M:660:VAL:HG23	1.68	0.76
1:A:159:GLY:CA	3:A:1301:DTP:O1A	2.35	0.75
1:A:262:LEU:HD21	1:A:270:THR:HG21	1.66	0.75
1:A:386:LEU:HD11	1:A:424:LEU:HD22	1.67	0.75
1:A:862:TYR:H	1:A:884:TRP:HD1	1.31	0.75
1:A:903:ASP:O	1:A:904:GLN:HB2	1.83	0.75
1:A:1176:HIS:O	1:A:1197:GLY:HA3	1.86	0.75
1:C:262:LEU:HD21	1:C:270:THR:HG21	1.66	0.75
1:C:573:THR:O	1:C:577:TYR:HB3	1.85	0.75
1:E:179:PRO:CG	1:E:237:ARG:NH1	2.49	0.75
1:E:595:LEU:CD1	1:E:1201:TRP:CH2	2.67	0.75
1:G:283:GLU:OE2	1:G:284:SER:N	2.19	0.75
1:G:554:LEU:HD11	1:G:1214:TYR:CE1	2.21	0.75
1:G:1194:SER:HB2	1:G:1202:TRP:CE3	2.21	0.75
1:K:1194:SER:CB	1:K:1202:TRP:CE3	2.69	0.75
1:M:932:GLU:OE1	1:M:933:ASN:ND2	2.18	0.75

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1048:LYS:H	1:A:1062:SER:HA	1.51	0.75
1:A:1176:HIS:HB3	1:A:1218:THR:HG21	1.67	0.75
1:E:119:VAL:HG12	1:E:184:TRP:CE3	2.21	0.75
1:E:554:LEU:HD11	1:E:1214:TYR:CE1	2.21	0.75
2:H:18:HIS:CE1	2:H:29:GLY:CA	2.66	0.75
1:I:179:PRO:CG	1:I:237:ARG:NH1	2.49	0.75
1:I:1179:TRP:HA	1:I:1179:TRP:HE3	1.50	0.75
1:I:1194:SER:HB2	1:I:1202:TRP:CE3	2.20	0.75
1:K:427:ASP:OD2	1:K:434:ARG:HG2	1.86	0.75
1:K:875:VAL:HG12	1:K:915:CYS:HA	1.68	0.75
1:A:948:LEU:CD1	1:A:957:ASP:OD2	2.34	0.75
1:A:1194:SER:CB	1:A:1202:TRP:CE3	2.69	0.75
1:A:1194:SER:HB2	1:A:1202:TRP:CE3	2.20	0.75
1:C:317:CYS:C	1:C:318:LYS:HG2	2.11	0.75
1:E:386:LEU:HD11	1:E:424:LEU:HD22	1.67	0.75
1:E:658:ASP:OD2	1:E:677:VAL:CB	2.34	0.75
1:I:119:VAL:HG12	1:I:184:TRP:CE3	2.21	0.75
1:I:159:GLY:CA	3:I:1301:DTP:O1A	2.34	0.75
1:I:658:ASP:OD2	1:I:677:VAL:CB	2.34	0.75
1:I:875:VAL:HG12	1:I:915:CYS:HA	1.68	0.75
1:A:637:LYS:HA	1:A:660:VAL:HG23	1.67	0.75
1:A:875:VAL:HG12	1:A:915:CYS:HA	1.68	0.75
1:C:461:ILE:CD1	1:C:491:MET:HG2	2.16	0.75
1:C:592:MET:HE2	1:C:592:MET:N	2.01	0.75
1:G:317:CYS:SG	1:G:323:VAL:HG12	2.27	0.75
1:G:637:LYS:HA	1:G:660:VAL:HG23	1.67	0.75
1:G:875:VAL:HG12	1:G:915:CYS:HA	1.68	0.75
1:G:1194:SER:CB	1:G:1202:TRP:CE3	2.69	0.75
1:I:161:SER:HB2	3:I:1301:DTP:O2A	1.85	0.75
1:I:283:GLU:OE2	1:I:284:SER:N	2.19	0.75
1:M:920:VAL:C	1:M:921:MET:HG2	2.11	0.75
1:A:450:CYS:O	1:A:453:LEU:HG	1.85	0.75
1:C:427:ASP:OD2	1:C:434:ARG:HG2	1.86	0.75
1:C:597:TRP:CH2	1:C:603:ILE:CD1	2.65	0.75
1:C:1199:ILE:HD11	1:C:1232:TYR:CE2	2.22	0.75
1:E:159:GLY:CA	3:E:1301:DTP:O1A	2.35	0.75
1:E:438:HIS:O	1:E:442:VAL:HG23	1.85	0.75
1:E:920:VAL:C	1:E:921:MET:HG2	2.11	0.75
1:E:1194:SER:HB2	1:E:1202:TRP:CE3	2.21	0.75
1:G:159:GLY:CA	3:G:1301:DTP:O1A	2.35	0.75
1:I:554:LEU:HD11	1:I:1214:TYR:CE1	2.21	0.75

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:657:GLU:HG2	1:I:680:LYS:HZ1	1.49	0.75
1:K:438:HIS:O	1:K:442:VAL:HG23	1.85	0.75
1:K:637:LYS:HA	1:K:660:VAL:HG23	1.67	0.75
1:M:179:PRO:CG	1:M:237:ARG:NH1	2.49	0.75
1:C:561:PRO:O	1:C:563:ILE:HD13	1.86	0.75
1:C:862:TYR:H	1:C:884:TRP:HD1	1.31	0.75
1:C:1048:LYS:H	1:C:1062:SER:HA	1.51	0.75
1:C:1194:SER:HB2	1:C:1202:TRP:CE3	2.21	0.75
1:E:573:THR:O	1:E:577:TYR:HB3	1.85	0.75
1:G:461:ILE:CD1	1:G:491:MET:HG2	2.16	0.75
1:G:595:LEU:CD1	1:G:1201:TRP:CH2	2.67	0.75
1:G:1048:LYS:H	1:G:1062:SER:HA	1.51	0.75
1:G:1218:THR:O	1:G:1236:ASP:CB	2.32	0.75
1:I:317:CYS:C	1:I:318:LYS:HG2	2.11	0.75
1:I:1199:ILE:HD11	1:I:1232:TYR:CE2	2.22	0.75
1:K:159:GLY:CA	3:K:1301:DTP:O1A	2.34	0.75
1:K:461:ILE:CD1	1:K:491:MET:HG2	2.16	0.75
1:K:920:VAL:HG12	1:K:921:MET:H	1.51	0.75
1:M:554:LEU:HD11	1:M:1214:TYR:CE1	2.21	0.75
1:M:1183:LEU:N	1:M:1183:LEU:HD12	2.02	0.75
1:M:1194:SER:HB2	1:M:1202:TRP:CE3	2.21	0.75
1:A:597:TRP:CZ2	1:A:603:ILE:HG12	2.22	0.75
1:C:322:LEU:CD1	1:C:364:LEU:CD2	2.42	0.75
1:C:1183:LEU:HD12	1:C:1183:LEU:N	2.02	0.75
1:E:461:ILE:CD1	1:E:491:MET:HG2	2.16	0.75
1:E:875:VAL:HG12	1:E:915:CYS:HA	1.68	0.75
1:G:317:CYS:C	1:G:318:LYS:HG2	2.11	0.75
1:G:513:LYS:HD3	1:G:522:LEU:HG	1.69	0.75
1:G:592:MET:N	1:G:592:MET:HE2	2.01	0.75
1:G:1199:ILE:HD11	1:G:1232:TYR:CE2	2.22	0.75
1:I:561:PRO:O	1:I:563:ILE:HD13	1.86	0.75
1:K:119:VAL:HG12	1:K:184:TRP:CE3	2.21	0.75
1:K:317:CYS:C	1:K:318:LYS:HG2	2.11	0.75
1:K:520:ALA:HB2	1:K:648:GLU:HA	1.69	0.75
1:K:1176:HIS:O	1:K:1197:GLY:HA3	1.87	0.75
1:M:597:TRP:CH2	1:M:603:ILE:CD1	2.65	0.75
1:A:179:PRO:CG	1:A:237:ARG:NH1	2.49	0.75
1:A:513:LYS:HD3	1:A:522:LEU:HG	1.69	0.75
1:A:520:ALA:HB2	1:A:648:GLU:HA	1.69	0.75
1:C:597:TRP:CZ2	1:C:603:ILE:HG12	2.22	0.75
1:C:658:ASP:OD2	1:C:677:VAL:CB	2.34	0.75

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:920:VAL:HG12	1:E:921:MET:H	1.51	0.75
1:E:1199:ILE:HD11	1:E:1232:TYR:CE2	2.22	0.75
1:G:597:TRP:CZ2	1:G:603:ILE:HG12	2.22	0.75
1:K:1194:SER:HB2	1:K:1202:TRP:CE3	2.21	0.75
1:K:1199:ILE:HD11	1:K:1232:TYR:CE2	2.22	0.75
1:M:159:GLY:CA	3:M:1301:DTP:O1A	2.35	0.75
1:C:875:VAL:HG12	1:C:915:CYS:HA	1.68	0.75
1:C:920:VAL:HG12	1:C:921:MET:H	1.51	0.75
1:C:931:GLN:O	1:C:932:GLU:CB	2.35	0.75
1:E:146:GLU:OE1	1:E:147:PRO:HD3	1.87	0.75
1:E:317:CYS:C	1:E:318:LYS:HG2	2.11	0.75
1:E:427:ASP:OD2	1:E:434:ARG:HG2	1.86	0.75
1:E:551:ASN:O	1:E:555:LEU:HB2	1.87	0.75
1:E:597:TRP:CZ2	1:E:603:ILE:HG12	2.22	0.75
1:G:928:VAL:HG12	1:G:937:VAL:CA	2.17	0.75
1:K:179:PRO:HD2	1:K:237:ARG:NH1	1.88	0.75
1:K:551:ASN:O	1:K:555:LEU:HB2	1.87	0.75
1:K:948:LEU:CD1	1:K:957:ASP:OD2	2.34	0.75
1:M:119:VAL:HG12	1:M:184:TRP:CE3	2.21	0.75
1:M:283:GLU:OE2	1:M:284:SER:N	2.19	0.75
1:M:513:LYS:HD3	1:M:522:LEU:HG	1.69	0.75
1:M:1194:SER:CB	1:M:1202:TRP:CE3	2.69	0.75
1:A:927:ASP:O	1:A:938:LEU:CB	2.24	0.74
1:A:1193:ILE:HG12	1:A:1201:TRP:CD1	2.22	0.74
1:C:159:GLY:CA	3:C:1301:DTP:O1A	2.35	0.74
1:C:179:PRO:CG	1:C:237:ARG:NH1	2.49	0.74
1:C:513:LYS:HD3	1:C:522:LEU:HG	1.69	0.74
1:C:1193:ILE:HG12	1:C:1201:TRP:CD1	2.22	0.74
1:C:1247:LEU:HD12	1:C:1248:GLU:N	2.02	0.74
1:E:409:GLU:HG3	1:G:340:TYR:CZ	2.22	0.74
1:E:637:LYS:HA	1:E:660:VAL:HG23	1.67	0.74
1:E:1048:LYS:H	1:E:1062:SER:HA	1.51	0.74
1:E:1176:HIS:O	1:E:1197:GLY:HA3	1.86	0.74
1:E:1183:LEU:HD12	1:E:1183:LEU:N	2.02	0.74
1:G:119:VAL:HG12	1:G:184:TRP:CE3	2.21	0.74
1:G:127:VAL:HG21	1:G:294:ILE:HG13	1.69	0.74
1:G:881:HIS:CE1	1:G:901:SER:CB	2.70	0.74
1:G:1171:GLU:CG	1:G:1172:GLY:H	2.00	0.74
1:I:637:LYS:HA	1:I:660:VAL:HG23	1.67	0.74
1:K:483:TRP:O	1:K:487:LEU:HB3	1.87	0.74
1:M:450:CYS:O	1:M:453:LEU:HG	1.85	0.74

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:592:MET:N	1:M:592:MET:HE2	2.01	0.74
1:M:1199:ILE:HD11	1:M:1232:TYR:CE2	2.22	0.74
1:A:374:MET:HE3	1:A:374:MET:CA	2.15	0.74
1:A:551:ASN:O	1:A:555:LEU:HB2	1.87	0.74
1:C:127:VAL:HG21	1:C:294:ILE:HG13	1.69	0.74
1:C:881:HIS:ND1	1:C:901:SER:CB	2.48	0.74
1:C:1176:HIS:O	1:C:1197:GLY:HA3	1.86	0.74
1:E:513:LYS:HD3	1:E:522:LEU:HG	1.69	0.74
1:E:1247:LEU:HD12	1:E:1248:GLU:N	2.02	0.74
1:G:409:GLU:HG3	1:I:340:TYR:CZ	2.22	0.74
1:G:1193:ILE:HG12	1:G:1201:TRP:CD1	2.22	0.74
1:I:146:GLU:OE1	1:I:147:PRO:HD3	1.87	0.74
1:I:317:CYS:SG	1:I:323:VAL:HG12	2.27	0.74
1:K:127:VAL:HG21	1:K:294:ILE:HG13	1.69	0.74
1:K:1183:LEU:HD12	1:K:1183:LEU:N	2.02	0.74
1:M:928:VAL:HG12	1:M:937:VAL:CA	2.17	0.74
1:M:1176:HIS:O	1:M:1197:GLY:HA3	1.86	0.74
1:A:920:VAL:HG12	1:A:921:MET:H	1.51	0.74
1:E:483:TRP:O	1:E:487:LEU:HB3	1.88	0.74
1:E:1193:ILE:HG12	1:E:1201:TRP:CD1	2.22	0.74
2:F:18:HIS:CE1	2:F:29:GLY:CA	2.66	0.74
2:F:18:HIS:CE1	2:F:30:PRO:HD2	2.22	0.74
1:G:948:LEU:CD1	1:G:957:ASP:OD2	2.34	0.74
1:G:1176:HIS:O	1:G:1197:GLY:HA3	1.86	0.74
1:I:513:LYS:HD3	1:I:522:LEU:HG	1.69	0.74
1:I:595:LEU:CD1	1:I:1201:TRP:CH2	2.67	0.74
1:K:137:GLN:HE21	1:K:173:LEU:HB3	1.53	0.74
1:K:1176:HIS:HB3	1:K:1218:THR:HG21	1.67	0.74
1:M:881:HIS:CE1	1:M:901:SER:CB	2.70	0.74
1:A:119:VAL:HG12	1:A:184:TRP:CE3	2.21	0.74
1:A:146:GLU:OE1	1:A:147:PRO:HD3	1.87	0.74
1:A:322:LEU:CD1	1:A:364:LEU:CD2	2.41	0.74
1:A:359:TYR:CE1	1:A:361:TYR:HD1	2.06	0.74
1:A:453:LEU:CD1	1:A:454:GLN:HE21	1.97	0.74
1:A:561:PRO:HB3	1:A:1214:TYR:CE2	2.23	0.74
1:C:119:VAL:HG12	1:C:184:TRP:CE3	2.21	0.74
1:C:483:TRP:O	1:C:487:LEU:HB3	1.87	0.74
1:G:862:TYR:H	1:G:884:TRP:HD1	1.31	0.74
1:I:1176:HIS:O	1:I:1197:GLY:HA3	1.87	0.74
1:I:1193:ILE:HG12	1:I:1201:TRP:CD1	2.22	0.74
1:K:179:PRO:CG	1:K:237:ARG:NH1	2.49	0.74

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:513:LYS:HD3	1:K:522:LEU:HG	1.69	0.74
1:K:1193:ILE:HG12	1:K:1201:TRP:CD1	2.22	0.74
1:M:137:GLN:HE21	1:M:173:LEU:HB3	1.53	0.74
1:M:597:TRP:CZ2	1:M:603:ILE:HG12	2.22	0.74
1:M:862:TYR:H	1:M:884:TRP:HD1	1.31	0.74
1:M:866:LEU:HD22	1:M:914:VAL:CG1	2.18	0.74
1:M:1194:SER:HG	1:M:1202:TRP:HE3	1.35	0.74
1:A:283:GLU:OE2	1:A:284:SER:N	2.19	0.74
1:A:920:VAL:C	1:A:921:MET:HG2	2.11	0.74
1:C:137:GLN:HE21	1:C:173:LEU:HB3	1.53	0.74
1:C:920:VAL:C	1:C:921:MET:HG2	2.11	0.74
1:K:554:LEU:HD11	1:K:1214:TYR:CE1	2.21	0.74
1:K:928:VAL:HG12	1:K:937:VAL:CA	2.17	0.74
1:A:317:CYS:SG	1:A:323:VAL:HG12	2.27	0.74
1:A:461:ILE:CD1	1:A:491:MET:HG2	2.16	0.74
1:A:928:VAL:HG12	1:A:937:VAL:CA	2.17	0.74
1:G:1247:LEU:HD12	1:G:1248:GLU:N	2.02	0.74
1:I:322:LEU:CD1	1:I:364:LEU:CD2	2.42	0.74
1:I:551:ASN:O	1:I:555:LEU:HB2	1.87	0.74
1:K:285:SER:O	1:K:319:GLY:CA	2.29	0.74
1:M:427:ASP:OD2	1:M:434:ARG:HG2	1.86	0.74
1:M:453:LEU:CD1	1:M:454:GLN:HE21	1.97	0.74
1:M:1176:HIS:HB3	1:M:1218:THR:HG21	1.67	0.74
1:A:595:LEU:CG	1:A:1244:LEU:HD13	2.18	0.74
1:A:862:TYR:HE2	1:A:881:HIS:H	1.28	0.74
1:A:881:HIS:CE1	1:A:901:SER:CB	2.70	0.74
1:A:931:GLN:O	1:A:932:GLU:CB	2.35	0.74
1:A:1247:LEU:HD12	1:A:1248:GLU:N	2.02	0.74
1:G:137:GLN:HE21	1:G:173:LEU:HB3	1.53	0.74
1:G:881:HIS:ND1	1:G:901:SER:CB	2.48	0.74
1:I:592:MET:HE2	1:I:592:MET:N	2.01	0.74
1:I:597:TRP:CZ2	1:I:603:ILE:HG12	2.22	0.74
1:I:1183:LEU:HD12	1:I:1183:LEU:N	2.02	0.74
2:L:18:HIS:CE1	2:L:30:PRO:HD2	2.22	0.74
1:M:146:GLU:OE1	1:M:147:PRO:HD3	1.87	0.74
1:M:317:CYS:SG	1:M:323:VAL:HG12	2.27	0.74
1:M:1193:ILE:HG12	1:M:1201:TRP:CD1	2.22	0.74
1:A:483:TRP:O	1:A:487:LEU:HB3	1.87	0.74
1:A:603:ILE:HD13	1:A:1242:TYR:CE1	2.23	0.74
1:C:317:CYS:SG	1:C:323:VAL:HG12	2.27	0.74
1:C:551:ASN:O	1:C:555:LEU:HB2	1.87	0.74

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:866:LEU:HD22	1:C:914:VAL:CG1	2.18	0.74
1:E:317:CYS:SG	1:E:323:VAL:HG12	2.27	0.74
1:E:520:ALA:HB2	1:E:648:GLU:HA	1.69	0.74
1:E:595:LEU:CG	1:E:1244:LEU:HD13	2.18	0.74
1:G:595:LEU:CG	1:G:1244:LEU:HD13	2.18	0.74
1:G:603:ILE:HD13	1:G:1242:TYR:CE1	2.23	0.74
1:G:1183:LEU:N	1:G:1183:LEU:HD12	2.02	0.74
1:I:137:GLN:HE21	1:I:173:LEU:HB3	1.53	0.74
1:K:374:MET:HE3	1:K:374:MET:CA	2.15	0.74
1:K:595:LEU:CD1	1:K:1201:TRP:CH2	2.67	0.74
1:M:595:LEU:CG	1:M:1244:LEU:HD13	2.18	0.74
1:A:122:ARG:HH21	1:A:126:PHE:HZ	1.24	0.74
1:A:127:VAL:HG21	1:A:294:ILE:HG13	1.69	0.74
1:A:457:HIS:CG	1:A:493:SER:CB	2.64	0.74
1:A:592:MET:HE2	1:A:592:MET:N	2.01	0.74
1:A:1199:ILE:HD11	1:A:1232:TYR:CE2	2.22	0.74
1:C:146:GLU:OE1	1:C:147:PRO:HD3	1.87	0.74
1:C:409:GLU:HG3	1:E:340:TYR:CZ	2.22	0.74
1:C:595:LEU:CG	1:C:1244:LEU:HD13	2.18	0.74
1:C:637:LYS:HA	1:C:660:VAL:HG23	1.67	0.74
1:E:558:GLN:CB	1:E:559:PRO:HD3	2.18	0.74
1:G:931:GLN:O	1:G:932:GLU:CB	2.35	0.74
1:K:283:GLU:OE2	1:K:284:SER:N	2.19	0.74
1:K:535:GLU:HA	1:K:538:CYS:SG	2.28	0.74
1:K:603:ILE:HD13	1:K:1242:TYR:CE1	2.23	0.74
1:A:1167:PRO:CB	1:A:1202:TRP:CD2	2.63	0.74
1:C:359:TYR:CE1	1:C:361:TYR:HD1	2.06	0.74
1:E:866:LEU:HD22	1:E:914:VAL:CG1	2.18	0.74
1:E:881:HIS:ND1	1:E:901:SER:CB	2.48	0.74
1:E:928:VAL:HG12	1:E:937:VAL:CA	2.17	0.74
1:E:948:LEU:CD1	1:E:957:ASP:OD2	2.34	0.74
1:G:561:PRO:O	1:G:563:ILE:HD13	1.86	0.74
1:G:924:GLN:HB3	1:G:1238:LEU:CG	2.17	0.74
1:I:595:LEU:CG	1:I:1244:LEU:HD13	2.18	0.74
1:I:920:VAL:HG12	1:I:921:MET:H	1.51	0.74
1:K:359:TYR:CE1	1:K:361:TYR:HD1	2.06	0.74
1:K:595:LEU:CG	1:K:1244:LEU:HD13	2.18	0.74
1:K:658:ASP:OD2	1:K:677:VAL:CB	2.34	0.74
1:K:866:LEU:HD22	1:K:914:VAL:CG1	2.18	0.74
1:M:931:GLN:O	1:M:932:GLU:CB	2.35	0.74
1:A:557:ARG:HG3	1:A:559:PRO:HD2	1.70	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:866:LEU:HD22	1:A:914:VAL:CG1	2.18	0.73
1:A:924:GLN:HB3	1:A:1238:LEU:CG	2.17	0.73
1:A:1183:LEU:HD12	1:A:1183:LEU:N	2.02	0.73
2:B:18:HIS:CE1	2:B:29:GLY:CA	2.66	0.73
1:C:283:GLU:OE2	1:C:284:SER:N	2.19	0.73
1:C:558:GLN:CB	1:C:559:PRO:HD3	2.18	0.73
1:E:561:PRO:O	1:E:563:ILE:HD13	1.86	0.73
1:E:603:ILE:HD13	1:E:1242:TYR:CE1	2.23	0.73
1:E:881:HIS:CE1	1:E:901:SER:CB	2.70	0.73
1:E:924:GLN:HB3	1:E:1238:LEU:CG	2.17	0.73
1:G:359:TYR:CE1	1:G:361:TYR:HD1	2.06	0.73
1:G:453:LEU:CD1	1:G:454:GLN:HE21	1.97	0.73
1:G:551:ASN:O	1:G:555:LEU:HB2	1.87	0.73
1:G:558:GLN:CB	1:G:559:PRO:HD3	2.18	0.73
1:G:866:LEU:HD22	1:G:914:VAL:CG1	2.18	0.73
1:G:920:VAL:HG12	1:G:921:MET:H	1.51	0.73
1:I:409:GLU:HG3	1:K:340:TYR:CZ	2.22	0.73
1:K:146:GLU:OE1	1:K:147:PRO:HD3	1.87	0.73
1:K:317:CYS:SG	1:K:323:VAL:HG12	2.27	0.73
1:K:597:TRP:CZ2	1:K:603:ILE:HG12	2.22	0.73
1:K:657:GLU:HG2	1:K:680:LYS:HZ2	1.50	0.73
1:M:558:GLN:CB	1:M:559:PRO:HD3	2.18	0.73
1:M:561:PRO:HB3	1:M:1214:TYR:CE2	2.23	0.73
1:M:658:ASP:OD2	1:M:677:VAL:CB	2.34	0.73
1:M:1247:LEU:HD12	1:M:1248:GLU:N	2.02	0.73
2:N:18:HIS:CE1	2:N:30:PRO:HD2	2.22	0.73
1:C:561:PRO:HB3	1:C:1214:TYR:CE2	2.23	0.73
1:C:881:HIS:CE1	1:C:901:SER:CB	2.70	0.73
1:E:561:PRO:HB3	1:E:1214:TYR:CE2	2.23	0.73
1:G:561:PRO:HB3	1:G:1214:TYR:CE2	2.23	0.73
1:G:928:VAL:HG22	1:G:1224:HIS:CE1	2.23	0.73
1:I:558:GLN:CB	1:I:559:PRO:HD3	2.18	0.73
1:K:558:GLN:CB	1:K:559:PRO:HD3	2.18	0.73
1:K:592:MET:HE2	1:K:592:MET:N	2.01	0.73
1:K:1247:LEU:HD12	1:K:1248:GLU:N	2.02	0.73
1:C:334:PHE:HB2	1:C:337:ARG:HD2	1.71	0.73
1:C:374:MET:HE3	1:C:374:MET:CA	2.15	0.73
1:G:264:THR:OG1	1:G:265:ARG:N	2.16	0.73
1:I:127:VAL:HG21	1:I:294:ILE:HG13	1.69	0.73
1:I:483:TRP:O	1:I:487:LEU:HB3	1.87	0.73
1:I:924:GLN:HB3	1:I:1238:LEU:CG	2.17	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:1247:LEU:HD12	1:I:1248:GLU:N	2.02	0.73
1:K:322:LEU:CD1	1:K:364:LEU:CD2	2.42	0.73
1:K:928:VAL:HG22	1:K:1224:HIS:CE1	2.23	0.73
1:M:359:TYR:CE1	1:M:361:TYR:HD1	2.06	0.73
1:M:483:TRP:O	1:M:487:LEU:HB3	1.87	0.73
1:M:557:ARG:HG3	1:M:559:PRO:HD2	1.70	0.73
1:M:928:VAL:HG22	1:M:1224:HIS:CE1	2.23	0.73
1:A:558:GLN:CB	1:A:559:PRO:HD3	2.18	0.73
1:G:535:GLU:HA	1:G:538:CYS:SG	2.28	0.73
1:I:928:VAL:HG12	1:I:937:VAL:CA	2.17	0.73
1:I:1171:GLU:CG	1:I:1172:GLY:H	2.00	0.73
1:K:862:TYR:H	1:K:884:TRP:HD1	1.30	0.73
1:M:582:LEU:HD23	1:M:582:LEU:O	1.89	0.73
1:M:924:GLN:HB3	1:M:1238:LEU:CG	2.17	0.73
1:A:535:GLU:HA	1:A:538:CYS:SG	2.28	0.73
1:A:582:LEU:O	1:A:582:LEU:HD23	1.89	0.73
1:C:457:HIS:CG	1:C:493:SER:CB	2.64	0.73
1:C:603:ILE:HD13	1:C:1242:TYR:CE1	2.23	0.73
1:C:643:LYS:HD3	1:C:646:THR:HG22	1.71	0.73
1:E:283:GLU:OE2	1:E:284:SER:N	2.19	0.73
1:E:453:LEU:CD1	1:E:454:GLN:HE21	1.97	0.73
1:G:860:SER:C	1:G:861:GLN:HG2	2.14	0.73
1:I:582:LEU:O	1:I:582:LEU:HD23	1.89	0.73
1:I:931:GLN:O	1:I:932:GLU:CB	2.35	0.73
1:M:595:LEU:CD1	1:M:1201:TRP:CH2	2.67	0.73
1:A:137:GLN:HE21	1:A:173:LEU:HB3	1.53	0.73
1:A:480:CYS:HA	1:A:483:TRP:HD1	1.54	0.73
1:C:285:SER:O	1:C:319:GLY:CA	2.29	0.73
1:C:643:LYS:HD3	1:C:646:THR:CG2	2.19	0.73
1:E:359:TYR:CE1	1:E:361:TYR:HD1	2.06	0.73
1:G:1233:VAL:HG12	1:G:1243:ILE:HA	1.71	0.73
1:I:866:LEU:HD22	1:I:914:VAL:CG1	2.18	0.73
1:I:1233:VAL:HG12	1:I:1243:ILE:HA	1.71	0.73
1:K:561:PRO:HB3	1:K:1214:TYR:CE2	2.23	0.73
1:K:881:HIS:CE1	1:K:899:THR:O	2.42	0.73
1:K:924:GLN:HB3	1:K:1238:LEU:CG	2.17	0.73
1:K:931:GLN:O	1:K:932:GLU:CB	2.35	0.73
1:K:1233:VAL:HG12	1:K:1243:ILE:HA	1.71	0.73
1:M:551:ASN:O	1:M:555:LEU:HB2	1.87	0.73
1:M:988:LEU:HD11	1:M:993:ASN:HA	1.70	0.73
2:D:18:HIS:CE1	2:D:30:PRO:HD2	2.22	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:535:GLU:HA	1:E:538:CYS:SG	2.28	0.73
1:E:643:LYS:HD3	1:E:646:THR:CG2	2.19	0.73
1:E:1233:VAL:HG12	1:E:1243:ILE:HA	1.71	0.73
1:G:520:ALA:HB2	1:G:648:GLU:HA	1.69	0.73
1:G:643:LYS:HD3	1:G:646:THR:CG2	2.19	0.73
2:H:18:HIS:CE1	2:H:30:PRO:HD2	2.22	0.73
1:I:643:LYS:HD3	1:I:646:THR:CG2	2.19	0.73
1:I:928:VAL:HG22	1:I:1224:HIS:CE1	2.23	0.73
1:M:535:GLU:HA	1:M:538:CYS:SG	2.28	0.73
1:A:643:LYS:HD3	1:A:646:THR:CG2	2.19	0.73
1:E:147:PRO:CG	1:G:121:GLN:OE1	2.37	0.73
1:E:881:HIS:CE1	1:E:899:THR:O	2.42	0.73
1:I:535:GLU:HA	1:I:538:CYS:SG	2.28	0.73
1:I:643:LYS:HD3	1:I:646:THR:HG22	1.71	0.73
1:M:494:ALA:O	1:M:495:LYS:HB2	1.89	0.73
1:A:860:SER:C	1:A:861:GLN:CG	2.62	0.73
1:C:147:PRO:CG	1:E:121:GLN:OE1	2.37	0.73
1:C:535:GLU:HA	1:C:538:CYS:SG	2.28	0.73
1:C:928:VAL:HG12	1:C:937:VAL:CA	2.17	0.73
1:C:1171:GLU:CG	1:C:1172:GLY:H	2.00	0.73
1:E:334:PHE:HB2	1:E:337:ARG:HD2	1.71	0.73
1:E:928:VAL:HG22	1:E:1224:HIS:CE1	2.23	0.73
1:G:146:GLU:OE1	1:G:147:PRO:HD3	1.87	0.73
1:G:147:PRO:CG	1:I:121:GLN:OE1	2.37	0.73
1:G:860:SER:C	1:G:861:GLN:CG	2.62	0.73
1:I:359:TYR:CE1	1:I:361:TYR:HD1	2.06	0.73
1:I:561:PRO:HB3	1:I:1214:TYR:CE2	2.23	0.73
1:K:881:HIS:CE1	1:K:901:SER:CB	2.70	0.73
1:K:1225:VAL:HG11	1:K:1229:PHE:CE1	2.24	0.73
1:M:860:SER:C	1:M:861:GLN:CG	2.62	0.73
1:A:461:ILE:HD13	1:A:491:MET:HG2	1.71	0.73
1:A:595:LEU:CD1	1:A:1201:TRP:CH2	2.67	0.73
1:C:520:ALA:HB2	1:C:648:GLU:HA	1.69	0.73
1:C:582:LEU:O	1:C:582:LEU:HD23	1.89	0.73
1:C:862:TYR:N	1:C:884:TRP:CD1	2.57	0.73
1:C:924:GLN:HB3	1:C:1238:LEU:CG	2.17	0.73
1:C:948:LEU:CD1	1:C:957:ASP:OD2	2.34	0.73
1:C:1233:VAL:HG12	1:C:1243:ILE:HA	1.71	0.73
1:E:127:VAL:HG21	1:E:294:ILE:HG13	1.69	0.73
1:E:480:CYS:HA	1:E:483:TRP:HD1	1.54	0.73
1:E:862:TYR:H	1:E:884:TRP:HD1	1.31	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:483:TRP:O	1:G:487:LEU:HB3	1.87	0.73
1:G:643:LYS:HD3	1:G:646:THR:HG22	1.71	0.73
1:G:988:LEU:HD11	1:G:993:ASN:HA	1.70	0.73
1:I:603:ILE:HD13	1:I:1242:TYR:CE1	2.23	0.73
1:I:860:SER:C	1:I:861:GLN:CG	2.62	0.73
1:I:1225:VAL:HG11	1:I:1229:PHE:CE1	2.24	0.73
2:J:18:HIS:CE1	2:J:30:PRO:HD2	2.22	0.73
1:K:551:ASN:O	1:K:555:LEU:CB	2.37	0.73
1:M:1171:GLU:CG	1:M:1172:GLY:H	2.00	0.73
1:M:1233:VAL:HG12	1:M:1243:ILE:HA	1.71	0.73
1:A:285:SER:O	1:A:319:GLY:CA	2.29	0.72
1:A:334:PHE:HB2	1:A:337:ARG:HD2	1.71	0.72
1:A:409:GLU:HG3	1:C:340:TYR:CZ	2.22	0.72
1:A:881:HIS:CE1	1:A:899:THR:O	2.42	0.72
1:C:557:ARG:HG3	1:C:559:PRO:HD2	1.70	0.72
1:E:137:GLN:HE21	1:E:173:LEU:HB3	1.53	0.72
1:G:537:ASP:O	1:G:540:VAL:N	2.22	0.72
1:G:928:VAL:CG1	1:G:937:VAL:HG12	2.19	0.72
1:I:1194:SER:OG	1:I:1202:TRP:CE3	2.42	0.72
1:K:239:LEU:HD12	1:K:239:LEU:C	2.15	0.72
1:K:409:GLU:HG3	1:M:340:TYR:CZ	2.23	0.72
1:M:264:THR:OG1	1:M:265:ARG:N	2.16	0.72
1:M:374:MET:HE3	1:M:374:MET:CA	2.15	0.72
1:M:551:ASN:O	1:M:555:LEU:CB	2.37	0.72
1:C:881:HIS:CE1	1:C:899:THR:O	2.42	0.72
1:C:928:VAL:HG22	1:C:1224:HIS:CE1	2.23	0.72
1:E:862:TYR:N	1:E:884:TRP:CD1	2.57	0.72
1:E:1225:VAL:HG11	1:E:1229:PHE:CE1	2.24	0.72
1:G:239:LEU:HD12	1:G:239:LEU:C	2.15	0.72
1:G:881:HIS:CE1	1:G:899:THR:O	2.42	0.72
1:I:285:SER:O	1:I:319:GLY:CA	2.29	0.72
1:I:494:ALA:O	1:I:495:LYS:HB2	1.89	0.72
1:I:1027:ILE:HB	1:I:1040:LEU:HB2	1.72	0.72
1:K:988:LEU:HD11	1:K:993:ASN:HA	1.70	0.72
1:M:461:ILE:HD13	1:M:491:MET:HG2	1.70	0.72
1:M:603:ILE:HD13	1:M:1242:TYR:CE1	2.23	0.72
1:A:340:TYR:CZ	1:M:409:GLU:HG3	2.22	0.72
1:A:988:LEU:HD11	1:A:993:ASN:HA	1.70	0.72
1:C:461:ILE:HD13	1:C:491:MET:HG2	1.70	0.72
1:C:1225:VAL:HG11	1:C:1229:PHE:CE1	2.24	0.72
1:G:1027:ILE:HB	1:G:1040:LEU:HB2	1.72	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:147:PRO:CG	1:K:121:GLN:OE1	2.37	0.72
1:I:264:THR:OG1	1:I:265:ARG:N	2.16	0.72
1:M:520:ALA:HB2	1:M:648:GLU:HA	1.69	0.72
1:A:928:VAL:HG22	1:A:1224:HIS:CE1	2.23	0.72
1:A:1233:VAL:HG12	1:A:1243:ILE:HA	1.71	0.72
1:C:453:LEU:CD1	1:C:454:GLN:HE21	1.97	0.72
1:E:537:ASP:O	1:E:540:VAL:N	2.22	0.72
1:E:582:LEU:HD23	1:E:582:LEU:O	1.89	0.72
1:E:931:GLN:O	1:E:932:GLU:CB	2.35	0.72
1:I:334:PHE:HB2	1:I:337:ARG:HD2	1.71	0.72
1:I:1167:PRO:CB	1:I:1202:TRP:CD2	2.63	0.72
1:M:881:HIS:CE1	1:M:899:THR:O	2.42	0.72
1:A:121:GLN:OE1	1:M:147:PRO:CG	2.37	0.72
1:A:494:ALA:O	1:A:495:LYS:HB2	1.89	0.72
1:A:636:ASP:C	1:A:637:LYS:HG3	2.15	0.72
1:A:1171:GLU:CG	1:A:1172:GLY:H	2.00	0.72
1:A:1218:THR:O	1:A:1236:ASP:CB	2.32	0.72
1:C:239:LEU:HD12	1:C:239:LEU:C	2.15	0.72
1:C:596:GLU:O	1:C:1244:LEU:HA	1.89	0.72
1:C:1218:THR:O	1:C:1236:ASP:CB	2.32	0.72
1:E:860:SER:C	1:E:861:GLN:CG	2.62	0.72
1:E:928:VAL:CG1	1:E:937:VAL:HG12	2.19	0.72
1:G:862:TYR:N	1:G:884:TRP:CD1	2.57	0.72
1:G:1194:SER:OG	1:G:1202:TRP:CE3	2.42	0.72
1:G:1225:VAL:HG11	1:G:1229:PHE:CE1	2.24	0.72
1:I:137:GLN:HG2	1:I:173:LEU:CD2	2.20	0.72
1:I:520:ALA:HB2	1:I:648:GLU:HA	1.69	0.72
1:I:860:SER:C	1:I:861:GLN:HG2	2.14	0.72
1:I:881:HIS:CE1	1:I:901:SER:CB	2.70	0.72
1:K:643:LYS:HD3	1:K:646:THR:CG2	2.19	0.72
1:K:1194:SER:OG	1:K:1202:TRP:CE3	2.42	0.72
1:M:480:CYS:HA	1:M:483:TRP:HD1	1.54	0.72
1:A:1225:VAL:HG11	1:A:1229:PHE:CE1	2.24	0.72
1:E:461:ILE:HD13	1:E:491:MET:HG2	1.70	0.72
1:E:596:GLU:O	1:E:1244:LEU:HA	1.89	0.72
1:E:988:LEU:HD11	1:E:993:ASN:HA	1.70	0.72
1:E:1194:SER:HG	1:E:1202:TRP:HE3	1.36	0.72
1:I:557:ARG:HG3	1:I:559:PRO:HD2	1.70	0.72
1:K:480:CYS:HA	1:K:483:TRP:HD1	1.54	0.72
1:K:553:HIS:HB2	1:K:610:VAL:CG1	2.20	0.72
1:K:596:GLU:O	1:K:1244:LEU:HA	1.89	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:1027:ILE:HB	1:K:1040:LEU:HB2	1.72	0.72
1:M:322:LEU:HD12	1:M:364:LEU:HD23	0.74	0.72
1:A:596:GLU:O	1:A:1244:LEU:HA	1.89	0.72
1:A:862:TYR:N	1:A:884:TRP:CD1	2.57	0.72
1:E:551:ASN:O	1:E:555:LEU:CB	2.37	0.72
1:E:643:LYS:HD3	1:E:646:THR:HG22	1.71	0.72
1:E:1027:ILE:HB	1:E:1040:LEU:HB2	1.71	0.72
1:G:551:ASN:O	1:G:555:LEU:CB	2.37	0.72
1:I:453:LEU:CD1	1:I:454:GLN:HE21	1.97	0.72
1:I:553:HIS:HB2	1:I:610:VAL:CG1	2.20	0.72
1:I:881:HIS:CE1	1:I:899:THR:O	2.42	0.72
1:I:928:VAL:CG1	1:I:937:VAL:HG12	2.20	0.72
1:I:988:LEU:HD11	1:I:993:ASN:HA	1.70	0.72
1:K:582:LEU:O	1:K:582:LEU:HD23	1.89	0.72
1:M:537:ASP:O	1:M:540:VAL:N	2.22	0.72
1:M:636:ASP:C	1:M:637:LYS:HG3	2.15	0.72
1:M:1218:THR:O	1:M:1236:ASP:CB	2.32	0.72
1:M:1225:VAL:HG11	1:M:1229:PHE:CE1	2.24	0.72
1:A:1109:ALA:HB3	1:A:1123:LEU:HB2	1.72	0.72
1:G:381:ASP:O	1:G:384:THR:CG2	2.36	0.72
1:G:461:ILE:HD13	1:G:491:MET:HG2	1.70	0.72
1:I:537:ASP:O	1:I:540:VAL:N	2.22	0.72
1:I:596:GLU:O	1:I:1244:LEU:HA	1.89	0.72
1:K:137:GLN:HG2	1:K:173:LEU:CD2	2.20	0.72
1:K:264:THR:OG1	1:K:265:ARG:N	2.16	0.72
1:M:127:VAL:HG21	1:M:294:ILE:HG13	1.69	0.72
1:A:147:PRO:CG	1:C:121:GLN:OE1	2.37	0.72
1:A:537:ASP:O	1:A:540:VAL:N	2.22	0.72
1:C:537:ASP:O	1:C:540:VAL:N	2.22	0.72
1:C:551:ASN:O	1:C:555:LEU:CB	2.37	0.72
1:E:285:SER:O	1:E:319:GLY:CA	2.29	0.72
1:G:149:TRP:CZ3	1:G:273:VAL:HG11	2.25	0.72
1:G:582:LEU:HD23	1:G:582:LEU:O	1.89	0.72
1:I:882:LEU:CD2	1:I:882:LEU:N	2.39	0.72
1:M:927:ASP:O	1:M:938:LEU:CB	2.24	0.72
1:M:948:LEU:CD1	1:M:957:ASP:OD2	2.34	0.72
1:M:1109:ALA:HB3	1:M:1123:LEU:HB2	1.72	0.72
1:A:239:LEU:HD12	1:A:239:LEU:C	2.15	0.72
1:A:570:GLU:CD	1:A:571:PRO:HD2	2.15	0.72
1:A:643:LYS:HD3	1:A:646:THR:HG22	1.71	0.72
1:A:1194:SER:HG	1:A:1202:TRP:HE3	1.37	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:457:HIS:CG	1:E:493:SER:CB	2.64	0.72
1:E:557:ARG:HG3	1:E:559:PRO:HD2	1.70	0.72
1:I:174:LEU:HD23	1:I:174:LEU:C	2.15	0.72
1:K:334:PHE:HB2	1:K:337:ARG:HD2	1.71	0.72
1:K:461:ILE:HD13	1:K:491:MET:HG2	1.70	0.72
1:K:537:ASP:O	1:K:540:VAL:N	2.22	0.72
1:K:557:ARG:HG3	1:K:559:PRO:HD2	1.70	0.72
1:K:860:SER:C	1:K:861:GLN:CG	2.62	0.72
1:K:1109:ALA:HB3	1:K:1123:LEU:HB2	1.72	0.72
1:M:643:LYS:HD3	1:M:646:THR:CG2	2.19	0.72
1:A:558:GLN:HB3	1:A:559:PRO:CD	2.20	0.71
1:A:860:SER:C	1:A:861:GLN:HG2	2.14	0.71
1:C:570:GLU:CD	1:C:571:PRO:HD2	2.15	0.71
1:C:1027:ILE:HB	1:C:1040:LEU:HB2	1.71	0.71
1:E:149:TRP:CZ3	1:E:273:VAL:HG11	2.25	0.71
1:E:1194:SER:OG	1:E:1202:TRP:CE3	2.42	0.71
1:G:557:ARG:HG3	1:G:559:PRO:HD2	1.70	0.71
1:I:261:LEU:C	1:I:261:LEU:HD12	2.15	0.71
1:I:461:ILE:HD13	1:I:491:MET:HG2	1.70	0.71
1:I:551:ASN:O	1:I:555:LEU:CB	2.37	0.71
1:K:147:PRO:CG	1:M:121:GLN:OE1	2.37	0.71
1:K:174:LEU:HD23	1:K:174:LEU:C	2.15	0.71
1:M:334:PHE:HB2	1:M:337:ARG:HD2	1.71	0.71
1:M:540:VAL:CG1	1:M:575:GLU:HB3	2.19	0.71
1:M:553:HIS:HB2	1:M:610:VAL:CG1	2.20	0.71
1:M:1194:SER:OG	1:M:1202:TRP:CE3	2.42	0.71
1:A:551:ASN:O	1:A:555:LEU:CB	2.37	0.71
1:C:636:ASP:C	1:C:637:LYS:HG3	2.15	0.71
1:E:860:SER:C	1:E:861:GLN:HG2	2.14	0.71
1:G:553:HIS:HB2	1:G:610:VAL:CG1	2.20	0.71
1:I:266:ASP:N	1:I:266:ASP:OD1	2.24	0.71
1:K:261:LEU:C	1:K:261:LEU:HD12	2.15	0.71
1:M:596:GLU:O	1:M:1244:LEU:HA	1.89	0.71
1:C:174:LEU:HD23	1:C:174:LEU:C	2.15	0.71
1:E:374:MET:HE3	1:E:374:MET:CA	2.15	0.71
1:E:610:VAL:HG22	1:E:907:ARG:HG3	1.73	0.71
1:G:174:LEU:HD23	1:G:174:LEU:C	2.15	0.71
1:G:596:GLU:O	1:G:1244:LEU:HA	1.89	0.71
1:I:149:TRP:CZ3	1:I:273:VAL:HG11	2.25	0.71
1:I:816:ALA:HB3	1:I:846:CYS:SG	2.30	0.71
1:K:403:LEU:HD12	1:K:403:LEU:C	2.15	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:494:ALA:O	1:K:495:LYS:HB2	1.89	0.71
1:K:643:LYS:HD3	1:K:646:THR:HG22	1.71	0.71
1:K:860:SER:C	1:K:861:GLN:HG2	2.14	0.71
1:K:862:TYR:N	1:K:884:TRP:CD1	2.57	0.71
1:M:239:LEU:HD12	1:M:239:LEU:C	2.14	0.71
1:M:403:LEU:HD12	1:M:403:LEU:C	2.15	0.71
1:M:1027:ILE:HB	1:M:1040:LEU:HB2	1.72	0.71
1:A:140:LEU:HD13	1:A:140:LEU:C	2.16	0.71
1:C:553:HIS:HB2	1:C:610:VAL:CG1	2.20	0.71
1:C:860:SER:C	1:C:861:GLN:HG2	2.14	0.71
1:E:494:ALA:O	1:E:495:LYS:HB2	1.89	0.71
1:E:553:HIS:HB2	1:E:610:VAL:CG1	2.20	0.71
1:E:570:GLU:CD	1:E:571:PRO:HD2	2.15	0.71
1:G:334:PHE:HB2	1:G:337:ARG:HD2	1.71	0.71
1:G:570:GLU:CD	1:G:571:PRO:HD2	2.15	0.71
1:G:1187:PRO:CG	1:G:1229:PHE:CG	2.74	0.71
1:I:480:CYS:HA	1:I:483:TRP:HD1	1.54	0.71
1:K:332:ARG:HH11	1:K:332:ARG:HB2	1.55	0.71
1:M:860:SER:C	1:M:861:GLN:HG2	2.14	0.71
1:A:403:LEU:HD12	1:A:403:LEU:C	2.15	0.71
1:A:816:ALA:HB3	1:A:846:CYS:SG	2.30	0.71
1:A:1027:ILE:HB	1:A:1040:LEU:HB2	1.71	0.71
1:E:558:GLN:HB3	1:E:559:PRO:CD	2.20	0.71
1:E:1218:THR:O	1:E:1236:ASP:CB	2.32	0.71
1:G:494:ALA:O	1:G:495:LYS:HB2	1.89	0.71
1:G:816:ALA:HB3	1:G:846:CYS:SG	2.30	0.71
1:K:928:VAL:CG1	1:K:937:VAL:HG12	2.19	0.71
1:M:881:HIS:ND1	1:M:901:SER:CB	2.48	0.71
1:A:261:LEU:C	1:A:261:LEU:HD12	2.15	0.71
1:A:1187:PRO:CG	1:A:1229:PHE:CG	2.74	0.71
1:C:149:TRP:CZ3	1:C:273:VAL:HG11	2.25	0.71
1:C:480:CYS:HA	1:C:483:TRP:HD1	1.54	0.71
1:C:816:ALA:HB3	1:C:846:CYS:SG	2.30	0.71
1:E:266:ASP:OD1	1:E:266:ASP:N	2.24	0.71
1:E:381:ASP:O	1:E:384:THR:CG2	2.36	0.71
1:K:636:ASP:C	1:K:637:LYS:HG3	2.15	0.71
1:M:137:GLN:HG2	1:M:173:LEU:CD2	2.20	0.71
1:A:146:GLU:OE1	1:A:147:PRO:HD2	1.91	0.71
1:C:140:LEU:HD13	1:C:140:LEU:C	2.16	0.71
1:C:1109:ALA:HB3	1:C:1123:LEU:HB2	1.72	0.71
1:E:174:LEU:HD23	1:E:174:LEU:C	2.15	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:636:ASP:C	1:E:637:LYS:HG3	2.15	0.71
1:E:816:ALA:HB3	1:E:846:CYS:SG	2.30	0.71
1:G:261:LEU:C	1:G:261:LEU:HD12	2.15	0.71
1:G:332:ARG:HH11	1:G:332:ARG:HB2	1.55	0.71
1:G:610:VAL:HG22	1:G:907:ARG:HG3	1.73	0.71
1:I:140:LEU:HD13	1:I:140:LEU:C	2.16	0.71
1:I:1109:ALA:HB3	1:I:1123:LEU:HB2	1.72	0.71
1:K:146:GLU:OE1	1:K:147:PRO:HD2	1.91	0.71
1:K:816:ALA:HB3	1:K:846:CYS:SG	2.30	0.71
1:A:553:HIS:HB2	1:A:610:VAL:CG1	2.20	0.71
1:C:610:VAL:HG22	1:C:907:ARG:HG3	1.73	0.71
1:C:860:SER:C	1:C:861:GLN:CG	2.62	0.71
1:C:1187:PRO:CG	1:C:1229:PHE:CG	2.74	0.71
1:E:239:LEU:HD12	1:E:239:LEU:C	2.15	0.71
1:G:927:ASP:O	1:G:938:LEU:CB	2.24	0.71
1:K:881:HIS:ND1	1:K:901:SER:CB	2.48	0.71
1:M:174:LEU:HD23	1:M:174:LEU:C	2.15	0.71
1:M:261:LEU:C	1:M:261:LEU:HD12	2.15	0.71
1:C:604:THR:H	1:C:1240:ILE:CD1	2.04	0.71
1:E:1109:ALA:HB3	1:E:1123:LEU:HB2	1.72	0.71
1:G:480:CYS:HA	1:G:483:TRP:HD1	1.54	0.71
1:K:453:LEU:HD12	1:K:453:LEU:C	2.16	0.71
1:M:146:GLU:OE1	1:M:147:PRO:HD2	1.91	0.71
1:A:174:LEU:HD23	1:A:174:LEU:C	2.15	0.71
1:A:604:THR:H	1:A:1240:ILE:CD1	2.04	0.71
1:C:266:ASP:OD1	1:C:266:ASP:N	2.24	0.71
1:E:604:THR:H	1:E:1240:ILE:CD1	2.04	0.71
1:G:636:ASP:C	1:G:637:LYS:HG3	2.15	0.71
1:G:1109:ALA:HB3	1:G:1123:LEU:HB2	1.72	0.71
1:I:239:LEU:HD12	1:I:239:LEU:C	2.15	0.71
1:I:381:ASP:O	1:I:384:THR:CG2	2.36	0.71
1:K:149:TRP:CZ3	1:K:273:VAL:HG11	2.25	0.71
1:K:266:ASP:OD1	1:K:266:ASP:N	2.24	0.71
1:K:604:THR:H	1:K:1240:ILE:CD1	2.04	0.71
1:M:140:LEU:HD13	1:M:140:LEU:C	2.16	0.71
1:M:604:THR:H	1:M:1240:ILE:CD1	2.04	0.71
1:A:924:GLN:OE1	1:A:924:GLN:N	2.24	0.70
1:A:1194:SER:OG	1:A:1202:TRP:CE3	2.42	0.70
1:C:1194:SER:OG	1:C:1202:TRP:CE3	2.42	0.70
1:E:1187:PRO:CG	1:E:1229:PHE:CG	2.74	0.70
1:G:604:THR:H	1:G:1240:ILE:CD1	2.04	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:641:VAL:HB	1:G:651:LEU:CB	2.21	0.70
1:I:403:LEU:HD12	1:I:403:LEU:C	2.15	0.70
1:I:453:LEU:HD12	1:I:453:LEU:C	2.16	0.70
1:I:636:ASP:C	1:I:637:LYS:HG3	2.15	0.70
1:K:140:LEU:HD13	1:K:140:LEU:C	2.16	0.70
1:K:558:GLN:HB3	1:K:559:PRO:CD	2.20	0.70
1:K:641:VAL:HB	1:K:651:LEU:CB	2.21	0.70
1:K:657:GLU:HG2	1:K:680:LYS:HZ1	1.54	0.70
1:M:453:LEU:HD12	1:M:453:LEU:C	2.16	0.70
1:M:543:ASN:OD1	1:M:574:SER:CB	2.39	0.70
1:M:641:VAL:HB	1:M:651:LEU:CB	2.21	0.70
1:M:643:LYS:HD3	1:M:646:THR:HG22	1.71	0.70
1:A:543:ASN:OD1	1:A:574:SER:CB	2.39	0.70
1:A:595:LEU:HD23	1:A:1246:THR:HB	1.74	0.70
1:A:597:TRP:CH2	1:A:603:ILE:CG1	2.75	0.70
1:C:261:LEU:C	1:C:261:LEU:HD12	2.15	0.70
1:C:988:LEU:HD11	1:C:993:ASN:HA	1.70	0.70
1:C:1187:PRO:HG3	1:C:1229:PHE:CB	2.21	0.70
1:E:179:PRO:HD2	1:E:237:ARG:NH1	1.88	0.70
1:E:403:LEU:HD12	1:E:403:LEU:C	2.15	0.70
1:I:146:GLU:OE1	1:I:147:PRO:HD2	1.91	0.70
1:I:604:THR:H	1:I:1240:ILE:CD1	2.04	0.70
1:K:570:GLU:CD	1:K:571:PRO:HD2	2.15	0.70
1:M:570:GLU:CD	1:M:571:PRO:HD2	2.15	0.70
1:M:597:TRP:CH2	1:M:603:ILE:CG1	2.74	0.70
1:C:403:LEU:HD12	1:C:403:LEU:C	2.15	0.70
1:G:322:LEU:HD12	1:G:364:LEU:HD23	0.74	0.70
1:G:597:TRP:CH2	1:G:603:ILE:CG1	2.74	0.70
1:G:1213:PHE:CE2	1:G:1215:THR:HG22	2.27	0.70
1:I:570:GLU:CD	1:I:571:PRO:HD2	2.15	0.70
1:I:862:TYR:HE2	1:I:881:HIS:H	1.28	0.70
1:I:1187:PRO:CG	1:I:1229:PHE:CG	2.74	0.70
1:I:1218:THR:O	1:I:1236:ASP:CB	2.32	0.70
1:M:558:GLN:HB3	1:M:559:PRO:CD	2.20	0.70
1:M:816:ALA:HB3	1:M:846:CYS:SG	2.30	0.70
1:A:266:ASP:N	1:A:266:ASP:OD1	2.24	0.70
1:C:179:PRO:HG2	1:C:237:ARG:NH1	2.07	0.70
1:C:558:GLN:HB3	1:C:559:PRO:CD	2.20	0.70
1:C:928:VAL:CG1	1:C:937:VAL:HG12	2.19	0.70
1:E:1187:PRO:HG3	1:E:1229:PHE:CB	2.21	0.70
1:A:610:VAL:HG22	1:A:907:ARG:HG3	1.73	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1187:PRO:HG3	1:A:1229:PHE:CB	2.21	0.70
1:E:140:LEU:HD13	1:E:140:LEU:C	2.16	0.70
1:E:461:ILE:CD1	1:E:491:MET:CG	2.70	0.70
1:G:639:LEU:O	1:G:653:ILE:CG2	2.39	0.70
1:I:427:ASP:HB3	1:I:434:ARG:HG2	1.73	0.70
1:I:578:GLN:O	1:I:578:GLN:NE2	2.25	0.70
1:I:641:VAL:HB	1:I:651:LEU:CB	2.21	0.70
1:I:862:TYR:N	1:I:884:TRP:CD1	2.57	0.70
1:K:179:PRO:HG2	1:K:237:ARG:NH1	2.07	0.70
1:K:543:ASN:OD1	1:K:574:SER:CB	2.39	0.70
1:K:597:TRP:CH2	1:K:603:ILE:CG1	2.74	0.70
1:K:1187:PRO:HG3	1:K:1229:PHE:CB	2.21	0.70
1:A:1213:PHE:CE2	1:A:1215:THR:HG22	2.27	0.70
1:C:427:ASP:HB3	1:C:434:ARG:HG2	1.73	0.70
1:E:1171:GLU:CG	1:E:1172:GLY:H	2.00	0.70
1:G:1187:PRO:HG3	1:G:1229:PHE:CB	2.21	0.70
1:I:597:TRP:CH2	1:I:603:ILE:CG1	2.74	0.70
1:K:427:ASP:HB3	1:K:434:ARG:HG2	1.73	0.70
1:K:473:LEU:CD1	1:K:480:CYS:CB	2.65	0.70
1:K:881:HIS:HE1	1:K:899:THR:O	1.75	0.70
1:K:1171:GLU:CG	1:K:1172:GLY:H	2.00	0.70
1:M:149:TRP:CZ3	1:M:273:VAL:HG11	2.25	0.70
1:M:461:ILE:CD1	1:M:491:MET:CG	2.70	0.70
1:M:595:LEU:HD23	1:M:1246:THR:HB	1.74	0.70
1:M:881:HIS:HE1	1:M:899:THR:O	1.75	0.70
1:A:179:PRO:HG2	1:A:237:ARG:NH1	2.07	0.70
1:A:461:ILE:CD1	1:A:491:MET:CG	2.70	0.70
1:C:461:ILE:CD1	1:C:491:MET:CG	2.70	0.70
1:C:543:ASN:OD1	1:C:574:SER:CB	2.39	0.70
1:C:641:VAL:HB	1:C:651:LEU:HB3	1.74	0.70
1:E:261:LEU:C	1:E:261:LEU:HD12	2.15	0.70
1:E:639:LEU:O	1:E:653:ILE:CG2	2.39	0.70
1:G:285:SER:O	1:G:319:GLY:CA	2.29	0.70
1:G:453:LEU:HD12	1:G:453:LEU:C	2.16	0.70
1:G:461:ILE:CD1	1:G:491:MET:CG	2.70	0.70
1:I:1213:PHE:CE2	1:I:1215:THR:HG22	2.27	0.70
1:K:322:LEU:HD12	1:K:364:LEU:HD23	0.74	0.70
1:K:344:GLN:O	1:K:347:ASN:HB2	1.91	0.70
1:K:1143:ALA:CB	1:K:1183:LEU:HD22	2.22	0.70
1:K:1213:PHE:CE2	1:K:1215:THR:HG22	2.27	0.70
1:M:294:ILE:CG2	1:M:324:VAL:HG11	2.22	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:137:GLN:HG2	1:A:173:LEU:CD2	2.20	0.70
1:A:149:TRP:CZ3	1:A:273:VAL:HG11	2.25	0.70
1:A:540:VAL:CG1	1:A:575:GLU:HB3	2.19	0.70
1:A:641:VAL:HB	1:A:651:LEU:CB	2.21	0.70
1:A:1143:ALA:CB	1:A:1183:LEU:HD22	2.22	0.70
1:C:494:ALA:O	1:C:495:LYS:HB2	1.89	0.70
1:C:924:GLN:OE1	1:C:924:GLN:N	2.24	0.70
1:E:1213:PHE:CE2	1:E:1215:THR:HG22	2.27	0.70
1:G:266:ASP:N	1:G:266:ASP:OD1	2.24	0.70
1:G:543:ASN:OD1	1:G:574:SER:CB	2.39	0.70
1:I:617:ALA:O	1:I:635:ALA:N	2.25	0.70
1:I:1187:PRO:HG3	1:I:1229:PHE:CB	2.21	0.70
1:K:461:ILE:CD1	1:K:491:MET:CG	2.70	0.70
1:K:578:GLN:NE2	1:K:578:GLN:O	2.25	0.70
1:K:924:GLN:OE1	1:K:924:GLN:N	2.24	0.70
1:M:155:MET:CE	1:M:441:GLN:NE2	2.55	0.70
1:M:862:TYR:N	1:M:884:TRP:CD1	2.57	0.70
1:M:1184:CYS:HB3	1:M:1193:ILE:HB	1.74	0.70
1:M:1187:PRO:CG	1:M:1229:PHE:CG	2.74	0.70
1:M:1213:PHE:CE2	1:M:1215:THR:HG22	2.27	0.70
1:A:427:ASP:HB3	1:A:434:ARG:HG2	1.73	0.70
1:A:453:LEU:HD12	1:A:453:LEU:C	2.16	0.70
1:A:473:LEU:CD1	1:A:480:CYS:CB	2.65	0.70
1:C:146:GLU:OE1	1:C:147:PRO:HD2	1.91	0.70
1:C:344:GLN:O	1:C:347:ASN:HB2	1.91	0.70
1:C:597:TRP:CH2	1:C:603:ILE:CG1	2.75	0.70
1:E:322:LEU:CD1	1:E:364:LEU:CD2	2.41	0.70
1:E:641:VAL:HB	1:E:651:LEU:HB3	1.74	0.70
1:E:1184:CYS:HB3	1:E:1193:ILE:HB	1.74	0.70
1:G:473:LEU:CD1	1:G:480:CYS:CB	2.65	0.70
1:G:595:LEU:HD23	1:G:1246:THR:HB	1.74	0.70
1:I:344:GLN:O	1:I:347:ASN:HB2	1.91	0.70
1:I:461:ILE:CD1	1:I:491:MET:CG	2.70	0.70
1:K:155:MET:CE	1:K:441:GLN:NE2	2.55	0.70
1:M:928:VAL:CG1	1:M:937:VAL:HG12	2.19	0.70
1:M:1187:PRO:HG3	1:M:1229:PHE:CB	2.21	0.70
1:A:1194:SER:OG	1:A:1202:TRP:HE3	1.75	0.70
1:C:381:ASP:O	1:C:384:THR:CG2	2.36	0.70
1:E:453:LEU:HD12	1:E:453:LEU:C	2.16	0.70
1:E:641:VAL:HB	1:E:651:LEU:CB	2.21	0.70
1:G:403:LEU:HD12	1:G:403:LEU:C	2.15	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:578:GLN:NE2	1:G:578:GLN:O	2.25	0.70
1:G:1184:CYS:HB3	1:G:1193:ILE:HB	1.74	0.70
1:I:332:ARG:HH11	1:I:332:ARG:HB2	1.55	0.70
1:I:558:GLN:HB3	1:I:559:PRO:CD	2.20	0.70
1:I:1212:THR:HG23	1:I:1213:PHE:N	2.07	0.70
1:K:1194:SER:OG	1:K:1202:TRP:HE3	1.75	0.70
1:M:344:GLN:O	1:M:347:ASN:HB2	1.91	0.70
1:M:1212:THR:HG23	1:M:1213:PHE:N	2.07	0.70
1:A:155:MET:CE	1:A:441:GLN:NE2	2.55	0.69
1:A:928:VAL:CG1	1:A:937:VAL:HG12	2.19	0.69
1:A:1212:THR:HG23	1:A:1213:PHE:N	2.07	0.69
1:C:409:GLU:O	1:E:337:ARG:NH2	2.25	0.69
1:C:453:LEU:HD12	1:C:453:LEU:C	2.16	0.69
1:C:633:CYS:CB	1:C:660:VAL:HG11	2.22	0.69
1:C:881:HIS:HE1	1:C:899:THR:O	1.75	0.69
1:C:1212:THR:HG23	1:C:1213:PHE:N	2.07	0.69
1:E:427:ASP:HB3	1:E:434:ARG:HG2	1.73	0.69
1:G:179:PRO:HG2	1:G:237:ARG:NH1	2.07	0.69
1:G:633:CYS:CB	1:G:660:VAL:HG11	2.22	0.69
1:G:1143:ALA:HB3	1:G:1183:LEU:HD22	1.74	0.69
1:I:610:VAL:HG22	1:I:907:ARG:HG3	1.73	0.69
1:K:595:LEU:HD23	1:K:1246:THR:HB	1.74	0.69
1:M:179:PRO:HG2	1:M:237:ARG:NH1	2.07	0.69
1:M:639:LEU:O	1:M:653:ILE:CG2	2.39	0.69
1:M:1143:ALA:CB	1:M:1183:LEU:HD22	2.22	0.69
1:A:344:GLN:O	1:A:347:ASN:HB2	1.91	0.69
1:C:1213:PHE:CE2	1:C:1215:THR:HG22	2.27	0.69
1:E:332:ARG:HH11	1:E:332:ARG:HB2	1.55	0.69
1:E:344:GLN:O	1:E:347:ASN:HB2	1.91	0.69
1:E:543:ASN:OD1	1:E:574:SER:CB	2.39	0.69
1:E:595:LEU:HD23	1:E:1246:THR:HB	1.74	0.69
1:E:597:TRP:CH2	1:E:603:ILE:CG1	2.75	0.69
1:E:1166:ALA:N	1:E:1167:PRO:HD3	2.08	0.69
1:E:1187:PRO:HD3	1:E:1229:PHE:CD1	2.28	0.69
1:G:294:ILE:CG2	1:G:324:VAL:HG11	2.22	0.69
1:G:322:LEU:CD1	1:G:364:LEU:CD2	2.41	0.69
1:G:641:VAL:HB	1:G:651:LEU:HB3	1.74	0.69
1:G:1194:SER:OG	1:G:1202:TRP:HE3	1.75	0.69
1:I:394:LYS:HD3	1:I:434:ARG:HG3	1.74	0.69
1:I:641:VAL:HB	1:I:651:LEU:HB3	1.74	0.69
1:I:881:HIS:HE1	1:I:899:THR:O	1.75	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:1143:ALA:CB	1:I:1183:LEU:HD22	2.22	0.69
1:K:1184:CYS:HB3	1:K:1193:ILE:HB	1.74	0.69
1:M:1171:GLU:HG3	1:M:1172:GLY:N	2.06	0.69
1:A:409:GLU:HG2	1:A:410:GLU:N	2.07	0.69
1:A:1184:CYS:HB3	1:A:1193:ILE:HB	1.74	0.69
1:C:578:GLN:O	1:C:578:GLN:NE2	2.25	0.69
1:E:127:VAL:HG23	1:E:294:ILE:HG13	1.74	0.69
1:E:578:GLN:NE2	1:E:578:GLN:O	2.25	0.69
1:E:924:GLN:N	1:E:924:GLN:OE1	2.24	0.69
1:G:558:GLN:HB3	1:G:559:PRO:CD	2.20	0.69
1:I:179:PRO:HG2	1:I:237:ARG:NH1	2.07	0.69
1:I:409:GLU:HG2	1:I:410:GLU:N	2.07	0.69
1:I:1187:PRO:HD3	1:I:1229:PHE:CD1	2.28	0.69
1:K:639:LEU:O	1:K:653:ILE:CG2	2.39	0.69
1:M:332:ARG:HH11	1:M:332:ARG:HB2	1.55	0.69
1:A:641:VAL:HB	1:A:651:LEU:HB3	1.74	0.69
1:C:639:LEU:O	1:C:653:ILE:CG2	2.39	0.69
1:C:1187:PRO:HD3	1:C:1229:PHE:CD1	2.28	0.69
1:E:155:MET:CE	1:E:441:GLN:NE2	2.55	0.69
1:E:409:GLU:O	1:G:337:ARG:NH2	2.25	0.69
1:E:881:HIS:HE1	1:E:899:THR:O	1.75	0.69
1:G:394:LYS:HD3	1:G:434:ARG:HG3	1.74	0.69
1:G:427:ASP:HB3	1:G:434:ARG:HG2	1.73	0.69
1:G:1166:ALA:N	1:G:1167:PRO:HD3	2.08	0.69
1:G:1187:PRO:HD3	1:G:1229:PHE:CD1	2.28	0.69
1:I:553:HIS:NE2	1:I:554:LEU:HB2	2.08	0.69
1:I:639:LEU:O	1:I:653:ILE:CG2	2.39	0.69
1:K:1187:PRO:CG	1:K:1229:PHE:CG	2.74	0.69
1:A:294:ILE:CG2	1:A:324:VAL:HG11	2.22	0.69
1:C:137:GLN:HG2	1:C:173:LEU:CD2	2.20	0.69
1:C:473:LEU:CD1	1:C:480:CYS:CB	2.65	0.69
1:C:554:LEU:O	1:C:554:LEU:HD22	1.93	0.69
1:C:1194:SER:OG	1:C:1202:TRP:HE3	1.75	0.69
1:E:1143:ALA:HB3	1:E:1183:LEU:HD22	1.75	0.69
1:G:1212:THR:HG23	1:G:1213:PHE:N	2.07	0.69
1:I:409:GLU:O	1:K:337:ARG:NH2	2.25	0.69
1:I:543:ASN:OD1	1:I:574:SER:CB	2.39	0.69
1:I:553:HIS:C	1:I:553:HIS:CD2	2.71	0.69
1:K:394:LYS:HD3	1:K:434:ARG:HG3	1.74	0.69
1:K:427:ASP:CB	1:K:434:ARG:HG2	2.23	0.69
1:K:553:HIS:NE2	1:K:554:LEU:HB2	2.08	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:641:VAL:HB	1:K:651:LEU:HB3	1.74	0.69
1:K:879:ARG:CB	1:K:921:MET:HE2	2.22	0.69
1:M:409:GLU:HG2	1:M:410:GLU:N	2.07	0.69
1:M:553:HIS:NE2	1:M:554:LEU:HB2	2.08	0.69
1:M:578:GLN:NE2	1:M:578:GLN:O	2.25	0.69
1:M:610:VAL:HG22	1:M:907:ARG:HG3	1.73	0.69
1:M:641:VAL:HB	1:M:651:LEU:HB3	1.74	0.69
1:A:337:ARG:NH2	1:M:409:GLU:O	2.25	0.69
1:A:394:LYS:HD3	1:A:434:ARG:HG3	1.75	0.69
1:C:283:GLU:CD	1:C:284:SER:N	2.51	0.69
1:C:641:VAL:HB	1:C:651:LEU:CB	2.21	0.69
1:C:1184:CYS:HB3	1:C:1193:ILE:HB	1.74	0.69
1:E:595:LEU:HG	1:E:1201:TRP:CH2	2.28	0.69
1:E:633:CYS:CB	1:E:660:VAL:HG11	2.22	0.69
1:G:146:GLU:OE1	1:G:147:PRO:HD2	1.91	0.69
1:G:344:GLN:O	1:G:347:ASN:HB2	1.91	0.69
1:G:427:ASP:CB	1:G:434:ARG:HG2	2.23	0.69
1:I:427:ASP:CB	1:I:434:ARG:HG2	2.23	0.69
1:I:1184:CYS:HB3	1:I:1193:ILE:HB	1.74	0.69
1:K:409:GLU:HG2	1:K:410:GLU:N	2.07	0.69
1:K:1187:PRO:HD3	1:K:1229:PHE:CD1	2.28	0.69
1:K:1212:THR:HG23	1:K:1213:PHE:N	2.07	0.69
1:M:394:LYS:HD3	1:M:434:ARG:HG3	1.74	0.69
1:A:431:LYS:HZ2	1:C:336:ASN:HB3	1.58	0.69
1:A:578:GLN:O	1:A:578:GLN:NE2	2.25	0.69
1:A:633:CYS:CB	1:A:660:VAL:HG11	2.22	0.69
1:A:639:LEU:O	1:A:653:ILE:CG2	2.39	0.69
1:A:867:TRP:HA	1:A:874:LYS:HA	1.75	0.69
1:C:867:TRP:HA	1:C:874:LYS:HA	1.75	0.69
1:C:1166:ALA:N	1:C:1167:PRO:HD3	2.08	0.69
1:G:140:LEU:HD13	1:G:140:LEU:C	2.16	0.69
1:G:457:HIS:CG	1:G:493:SER:CB	2.64	0.69
1:G:553:HIS:CD2	1:G:553:HIS:C	2.71	0.69
1:I:554:LEU:O	1:I:554:LEU:HD22	1.93	0.69
1:I:595:LEU:HG	1:I:1201:TRP:CH2	2.28	0.69
1:K:553:HIS:C	1:K:553:HIS:CD2	2.71	0.69
1:K:610:VAL:HG22	1:K:907:ARG:HG3	1.73	0.69
1:M:283:GLU:CD	1:M:284:SER:N	2.51	0.69
1:M:427:ASP:HB3	1:M:434:ARG:HG2	1.73	0.69
1:A:332:ARG:HH11	1:A:332:ARG:HB2	1.55	0.69
1:A:881:HIS:HE1	1:A:899:THR:O	1.75	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:155:MET:CE	1:C:441:GLN:NE2	2.55	0.69
1:C:394:LYS:HD3	1:C:434:ARG:HG3	1.74	0.69
1:C:1143:ALA:CB	1:C:1183:LEU:HD22	2.22	0.69
1:E:322:LEU:HD12	1:E:364:LEU:HD23	0.74	0.69
1:E:394:LYS:HD3	1:E:434:ARG:HG3	1.74	0.69
1:E:427:ASP:CB	1:E:434:ARG:HG2	2.23	0.69
1:E:1143:ALA:CB	1:E:1183:LEU:HD22	2.22	0.69
1:G:155:MET:CE	1:G:441:GLN:NE2	2.55	0.69
1:G:374:MET:HE3	1:G:374:MET:CA	2.15	0.69
1:G:1143:ALA:CB	1:G:1183:LEU:HD22	2.22	0.69
1:G:1240:ILE:HG23	1:G:1241:LEU:H	1.56	0.69
1:I:155:MET:CE	1:I:441:GLN:NE2	2.55	0.69
1:I:1143:ALA:HB3	1:I:1183:LEU:HD22	1.75	0.69
1:K:554:LEU:O	1:K:554:LEU:HD22	1.93	0.69
1:K:1166:ALA:N	1:K:1167:PRO:HD3	2.08	0.69
1:K:1187:PRO:CG	1:K:1229:PHE:CB	2.71	0.69
1:K:1199:ILE:HD13	1:K:1232:TYR:HE2	1.58	0.69
1:M:427:ASP:CB	1:M:434:ARG:HG2	2.23	0.69
1:M:473:LEU:CD1	1:M:480:CYS:CB	2.65	0.69
1:M:553:HIS:CB	1:M:610:VAL:HG11	2.21	0.69
1:M:554:LEU:O	1:M:554:LEU:HD13	1.93	0.69
1:M:617:ALA:O	1:M:635:ALA:N	2.24	0.69
1:M:1187:PRO:HD3	1:M:1229:PHE:CD1	2.27	0.69
1:C:595:LEU:HD23	1:C:1246:THR:HB	1.74	0.69
1:C:1187:PRO:CG	1:C:1229:PHE:CB	2.71	0.69
1:E:146:GLU:OE1	1:E:147:PRO:HD2	1.91	0.69
1:E:179:PRO:HG2	1:E:237:ARG:NH1	2.07	0.69
1:E:554:LEU:O	1:E:554:LEU:HD22	1.93	0.69
1:G:657:GLU:HG2	1:G:680:LYS:HZ2	1.54	0.69
1:I:1240:ILE:HG23	1:I:1241:LEU:H	1.56	0.69
1:K:554:LEU:O	1:K:554:LEU:HD13	1.93	0.69
1:K:1002:HIS:NE2	1:K:1028:GLN:OE1	2.26	0.69
1:M:633:CYS:CB	1:M:660:VAL:HG11	2.22	0.69
1:M:1166:ALA:N	1:M:1167:PRO:HD3	2.08	0.69
1:M:1187:PRO:CG	1:M:1229:PHE:CB	2.71	0.69
1:A:553:HIS:NE2	1:A:554:LEU:HB2	2.07	0.69
1:A:554:LEU:O	1:A:554:LEU:HD22	1.93	0.69
1:A:881:HIS:ND1	1:A:901:SER:CB	2.48	0.69
1:C:554:LEU:O	1:C:554:LEU:HD13	1.93	0.69
1:G:409:GLU:HG2	1:G:410:GLU:N	2.07	0.69
1:G:924:GLN:OE1	1:G:924:GLN:N	2.24	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:595:LEU:HD23	1:I:1246:THR:HB	1.74	0.69
1:I:657:GLU:HG2	1:I:680:LYS:HZ2	1.54	0.69
1:K:553:HIS:CB	1:K:610:VAL:HG11	2.21	0.69
1:M:1194:SER:OG	1:M:1202:TRP:HE3	1.75	0.69
1:A:617:ALA:O	1:A:635:ALA:N	2.24	0.68
1:A:1187:PRO:HD3	1:A:1229:PHE:CD1	2.28	0.68
1:C:332:ARG:HH11	1:C:332:ARG:HB2	1.55	0.68
1:C:595:LEU:HG	1:C:1201:TRP:CH2	2.28	0.68
1:E:875:VAL:CG1	1:E:915:CYS:HA	2.24	0.68
1:E:1167:PRO:CB	1:E:1202:TRP:CE3	2.74	0.68
1:G:595:LEU:HG	1:G:1201:TRP:CH2	2.28	0.68
1:K:127:VAL:HG23	1:K:294:ILE:HG13	1.74	0.68
1:K:153:HIS:HA	1:K:160:LYS:HD2	1.76	0.68
1:K:633:CYS:CB	1:K:660:VAL:HG11	2.22	0.68
1:A:127:VAL:HG23	1:A:294:ILE:HG13	1.74	0.68
1:A:554:LEU:O	1:A:554:LEU:HD13	1.93	0.68
1:C:553:HIS:C	1:C:553:HIS:CD2	2.71	0.68
1:E:617:ALA:O	1:E:635:ALA:N	2.24	0.68
1:E:1187:PRO:CG	1:E:1229:PHE:CB	2.71	0.68
1:G:1200:LYS:HE3	1:G:1211:GLN:HB2	1.76	0.68
1:I:283:GLU:CD	1:I:284:SER:N	2.51	0.68
1:I:473:LEU:CD1	1:I:480:CYS:CB	2.65	0.68
1:I:1199:ILE:HD13	1:I:1232:TYR:HE2	1.58	0.68
1:K:294:ILE:CG2	1:K:324:VAL:HG11	2.22	0.68
1:M:266:ASP:OD1	1:M:266:ASP:N	2.24	0.68
1:A:153:HIS:HA	1:A:160:LYS:HD2	1.76	0.68
1:C:617:ALA:O	1:C:635:ALA:N	2.24	0.68
1:E:1200:LYS:HE3	1:E:1211:GLN:HB2	1.76	0.68
1:G:283:GLU:CD	1:G:284:SER:N	2.51	0.68
1:G:617:ALA:O	1:G:635:ALA:N	2.24	0.68
1:G:881:HIS:HE1	1:G:899:THR:O	1.75	0.68
1:I:153:HIS:HA	1:I:160:LYS:HD2	1.76	0.68
1:I:554:LEU:O	1:I:554:LEU:HD13	1.93	0.68
1:M:1167:PRO:O	1:M:1202:TRP:NE1	2.26	0.68
1:A:553:HIS:CB	1:A:610:VAL:HG11	2.22	0.68
1:C:409:GLU:HG2	1:C:410:GLU:N	2.07	0.68
1:C:1143:ALA:HB3	1:C:1183:LEU:HD22	1.74	0.68
1:G:554:LEU:O	1:G:554:LEU:HD13	1.93	0.68
1:I:1194:SER:OG	1:I:1202:TRP:HE3	1.75	0.68
1:K:595:LEU:CG	1:K:1201:TRP:CH2	2.77	0.68
1:K:600:LYS:H	1:K:600:LYS:HD3	1.59	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:127:VAL:HG23	1:M:294:ILE:HG13	1.74	0.68
1:M:553:HIS:C	1:M:553:HIS:CD2	2.71	0.68
1:M:867:TRP:HA	1:M:874:LYS:HA	1.75	0.68
1:A:875:VAL:CG1	1:A:915:CYS:HA	2.24	0.68
1:A:1002:HIS:NE2	1:A:1028:GLN:OE1	2.26	0.68
1:C:153:HIS:HA	1:C:160:LYS:HD2	1.76	0.68
1:C:553:HIS:NE2	1:C:554:LEU:HB2	2.07	0.68
1:C:1002:HIS:NE2	1:C:1028:GLN:OE1	2.26	0.68
1:E:283:GLU:CD	1:E:284:SER:N	2.51	0.68
1:E:553:HIS:C	1:E:553:HIS:CD2	2.71	0.68
1:E:1002:HIS:NE2	1:E:1028:GLN:OE1	2.26	0.68
1:E:1167:PRO:O	1:E:1202:TRP:NE1	2.26	0.68
1:G:553:HIS:CB	1:G:610:VAL:HG11	2.22	0.68
1:G:879:ARG:CB	1:G:921:MET:HE2	2.23	0.68
1:I:633:CYS:CB	1:I:660:VAL:HG11	2.22	0.68
1:I:879:ARG:CB	1:I:921:MET:HE2	2.23	0.68
1:I:1166:ALA:N	1:I:1167:PRO:HD3	2.08	0.68
1:M:153:HIS:HA	1:M:160:LYS:HD2	1.76	0.68
1:M:1002:HIS:NE2	1:M:1028:GLN:OE1	2.26	0.68
1:M:1220:LEU:CD2	1:M:1234:THR:OG1	2.40	0.68
1:A:553:HIS:C	1:A:553:HIS:CD2	2.71	0.68
1:A:1187:PRO:CG	1:A:1229:PHE:CB	2.71	0.68
1:A:1199:ILE:CD1	1:A:1232:TYR:CE2	2.77	0.68
1:C:540:VAL:CG1	1:C:575:GLU:HB3	2.19	0.68
1:C:875:VAL:CG1	1:C:915:CYS:HA	2.24	0.68
1:E:927:ASP:O	1:E:938:LEU:CB	2.24	0.68
1:G:1002:HIS:NE2	1:G:1028:GLN:OE1	2.26	0.68
1:I:127:VAL:HG23	1:I:294:ILE:HG13	1.74	0.68
1:K:119:VAL:HG12	1:K:184:TRP:HE3	1.59	0.68
1:K:283:GLU:CD	1:K:284:SER:N	2.51	0.68
1:K:595:LEU:HG	1:K:1201:TRP:CH2	2.28	0.68
1:K:1167:PRO:O	1:K:1202:TRP:NE1	2.26	0.68
1:M:359:TYR:CE1	1:M:361:TYR:CD1	2.82	0.68
1:A:359:TYR:CE1	1:A:361:TYR:CD1	2.82	0.68
1:A:427:ASP:CB	1:A:434:ARG:HG2	2.23	0.68
1:A:595:LEU:CG	1:A:1201:TRP:CH2	2.77	0.68
1:A:1167:PRO:O	1:A:1202:TRP:NE1	2.26	0.68
2:B:33:HIS:CE1	2:B:104:GLU:O	2.46	0.68
1:C:127:VAL:HG23	1:C:294:ILE:HG13	1.74	0.68
1:C:427:ASP:CB	1:C:434:ARG:HG2	2.23	0.68
1:C:657:GLU:HG2	1:C:680:LYS:HZ1	1.55	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:137:GLN:HG2	1:E:173:LEU:CD2	2.20	0.68
1:E:359:TYR:CE1	1:E:361:TYR:CD1	2.82	0.68
1:E:554:LEU:O	1:E:554:LEU:HD13	1.93	0.68
1:G:1167:PRO:O	1:G:1202:TRP:NE1	2.26	0.68
1:G:1187:PRO:CG	1:G:1229:PHE:CB	2.71	0.68
1:I:1002:HIS:NE2	1:I:1028:GLN:OE1	2.26	0.68
1:I:1187:PRO:CG	1:I:1229:PHE:CB	2.71	0.68
1:K:1240:ILE:HG23	1:K:1241:LEU:H	1.56	0.68
1:A:322:LEU:HD12	1:A:364:LEU:HD23	0.74	0.68
1:A:595:LEU:HG	1:A:1201:TRP:CH2	2.28	0.68
1:C:879:ARG:CB	1:C:921:MET:HE2	2.23	0.68
1:C:1167:PRO:O	1:C:1202:TRP:NE1	2.26	0.68
1:C:1200:LYS:HE3	1:C:1211:GLN:HB2	1.76	0.68
1:E:636:ASP:O	1:E:637:LYS:CG	2.42	0.68
1:G:409:GLU:O	1:I:337:ARG:NH2	2.25	0.68
1:G:554:LEU:O	1:G:554:LEU:HD22	1.93	0.68
1:G:597:TRP:CD1	1:G:1243:ILE:O	2.43	0.68
1:I:1094:SER:O	1:I:1095:HIS:HB2	1.94	0.68
1:K:1143:ALA:HB3	1:K:1183:LEU:HD22	1.74	0.68
1:M:554:LEU:O	1:M:554:LEU:HD22	1.93	0.68
1:M:595:LEU:CG	1:M:1201:TRP:CH2	2.77	0.68
1:M:595:LEU:HG	1:M:1201:TRP:CH2	2.28	0.68
1:A:1166:ALA:N	1:A:1167:PRO:HD3	2.08	0.68
1:C:636:ASP:O	1:C:637:LYS:CG	2.42	0.68
1:C:1220:LEU:CD2	1:C:1234:THR:OG1	2.40	0.68
1:E:294:ILE:CG2	1:E:324:VAL:HG11	2.22	0.68
1:E:595:LEU:CG	1:E:1201:TRP:CH2	2.77	0.68
1:E:1240:ILE:HG23	1:E:1241:LEU:H	1.56	0.68
1:G:553:HIS:NE2	1:G:554:LEU:HB2	2.07	0.68
1:G:600:LYS:HD3	1:G:600:LYS:H	1.59	0.68
1:I:881:HIS:ND1	1:I:901:SER:CB	2.48	0.68
1:I:1200:LYS:HE3	1:I:1211:GLN:HB2	1.76	0.68
1:K:559:PRO:O	1:K:561:PRO:CD	2.42	0.68
1:M:1094:SER:O	1:M:1095:HIS:HB2	1.94	0.68
1:A:283:GLU:CD	1:A:284:SER:N	2.51	0.68
1:A:604:THR:N	1:A:1240:ILE:HD13	2.09	0.68
1:A:862:TYR:N	1:A:884:TRP:HD1	1.92	0.68
2:B:18:HIS:CE1	2:B:30:PRO:HD2	2.22	0.68
1:C:559:PRO:O	1:C:561:PRO:CD	2.42	0.68
1:C:1199:ILE:HD13	1:C:1232:TYR:HE2	1.58	0.68
1:E:553:HIS:NE2	1:E:554:LEU:HB2	2.07	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1212:THR:HG23	1:E:1213:PHE:N	2.07	0.68
1:G:1194:SER:HG	1:G:1202:TRP:HE3	1.38	0.68
1:G:1220:LEU:CG	1:G:1236:ASP:HB3	2.24	0.68
1:I:553:HIS:CB	1:I:610:VAL:HG11	2.21	0.68
1:I:875:VAL:CG1	1:I:915:CYS:HA	2.24	0.68
1:I:1167:PRO:O	1:I:1202:TRP:NE1	2.26	0.68
1:A:381:ASP:O	1:A:384:THR:CG2	2.36	0.67
1:A:561:PRO:HB3	1:A:1214:TYR:HD2	1.60	0.67
1:A:1143:ALA:HB3	1:A:1183:LEU:HD22	1.74	0.67
1:C:1220:LEU:CG	1:C:1236:ASP:HB3	2.25	0.67
1:E:409:GLU:HG2	1:E:410:GLU:N	2.07	0.67
1:E:604:THR:N	1:E:1240:ILE:HD13	2.09	0.67
1:E:867:TRP:HA	1:E:874:LYS:HA	1.75	0.67
1:G:636:ASP:O	1:G:637:LYS:CG	2.42	0.67
1:I:636:ASP:O	1:I:637:LYS:CG	2.42	0.67
1:I:1220:LEU:CG	1:I:1236:ASP:HB3	2.24	0.67
1:K:604:THR:N	1:K:1240:ILE:HD13	2.09	0.67
1:K:636:ASP:O	1:K:637:LYS:CG	2.42	0.67
1:C:359:TYR:CE1	1:C:361:TYR:CD1	2.82	0.67
1:E:153:HIS:HA	1:E:160:LYS:HD2	1.76	0.67
1:E:473:LEU:CD1	1:E:480:CYS:CB	2.65	0.67
1:E:553:HIS:CB	1:E:610:VAL:HG11	2.22	0.67
1:E:1199:ILE:HD13	1:E:1232:TYR:HE2	1.58	0.67
1:E:1220:LEU:CG	1:E:1236:ASP:HB3	2.25	0.67
1:G:595:LEU:CG	1:G:1201:TRP:CH2	2.77	0.67
1:I:559:PRO:O	1:I:561:PRO:CD	2.42	0.67
1:I:636:ASP:O	1:I:637:LYS:CD	2.42	0.67
1:K:875:VAL:CG1	1:K:915:CYS:HA	2.24	0.67
1:M:559:PRO:O	1:M:561:PRO:CD	2.42	0.67
1:M:600:LYS:HD3	1:M:600:LYS:H	1.59	0.67
1:A:1199:ILE:HD13	1:A:1232:TYR:HE2	1.58	0.67
1:A:1220:LEU:CG	1:A:1236:ASP:HB3	2.25	0.67
1:C:322:LEU:HD12	1:C:364:LEU:HD23	0.74	0.67
1:E:486:PHE:O	1:E:489:TYR:HB3	1.94	0.67
1:E:636:ASP:O	1:E:637:LYS:CD	2.42	0.67
1:E:1220:LEU:CD2	1:E:1234:THR:OG1	2.40	0.67
1:G:875:VAL:CG1	1:G:915:CYS:HA	2.24	0.67
1:G:1199:ILE:HD13	1:G:1232:TYR:HE2	1.58	0.67
1:G:1220:LEU:CD2	1:G:1234:THR:OG1	2.40	0.67
1:I:1167:PRO:CB	1:I:1202:TRP:CE3	2.74	0.67
1:K:636:ASP:O	1:K:637:LYS:CD	2.42	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:927:ASP:O	1:K:938:LEU:CB	2.24	0.67
1:M:636:ASP:O	1:M:637:LYS:CG	2.42	0.67
1:M:1143:ALA:HB3	1:M:1183:LEU:HD22	1.74	0.67
1:A:636:ASP:O	1:A:637:LYS:CD	2.42	0.67
1:C:595:LEU:CG	1:C:1201:TRP:CH2	2.77	0.67
1:C:1240:ILE:HG23	1:C:1241:LEU:H	1.56	0.67
1:E:600:LYS:HD3	1:E:600:LYS:H	1.59	0.67
1:E:657:GLU:HG2	1:E:680:LYS:HZ1	1.55	0.67
1:G:153:HIS:HA	1:G:160:LYS:HD2	1.76	0.67
1:I:387:SER:HA	1:I:445:LEU:HD13	1.77	0.67
1:I:540:VAL:CG1	1:I:575:GLU:HB3	2.19	0.67
1:K:359:TYR:CE1	1:K:361:TYR:CD1	2.82	0.67
1:K:862:TYR:N	1:K:884:TRP:HD1	1.92	0.67
1:K:1220:LEU:CG	1:K:1236:ASP:HB3	2.25	0.67
2:L:33:HIS:CE1	2:L:104:GLU:O	2.46	0.67
1:M:119:VAL:HG12	1:M:184:TRP:HE3	1.59	0.67
1:M:924:GLN:N	1:M:924:GLN:OE1	2.24	0.67
1:M:1199:ILE:CD1	1:M:1232:TYR:CE2	2.77	0.67
1:A:1094:SER:O	1:A:1095:HIS:HB2	1.94	0.67
1:A:1220:LEU:CD2	1:A:1234:THR:OG1	2.40	0.67
1:C:119:VAL:HG12	1:C:184:TRP:HE3	1.59	0.67
1:E:143:LEU:HD22	1:E:143:LEU:H	1.60	0.67
1:E:597:TRP:CH2	1:E:600:LYS:HA	2.30	0.67
1:G:127:VAL:HG23	1:G:294:ILE:HG13	1.73	0.67
1:G:559:PRO:O	1:G:561:PRO:CD	2.42	0.67
1:I:143:LEU:H	1:I:143:LEU:HD22	1.60	0.67
1:I:928:VAL:CG2	1:I:1224:HIS:ND1	2.58	0.67
1:M:1220:LEU:CG	1:M:1236:ASP:HB3	2.25	0.67
1:A:143:LEU:H	1:A:143:LEU:HD22	1.60	0.67
1:A:486:PHE:O	1:A:489:TYR:HB3	1.94	0.67
1:A:1185:PHE:O	1:A:1229:PHE:HZ	1.78	0.67
1:C:486:PHE:O	1:C:489:TYR:HB3	1.94	0.67
1:C:1171:GLU:HG3	1:C:1172:GLY:N	2.06	0.67
1:C:1220:LEU:HG	1:C:1236:ASP:CB	2.25	0.67
1:E:387:SER:HA	1:E:445:LEU:HD13	1.77	0.67
1:E:559:PRO:O	1:E:561:PRO:CD	2.42	0.67
1:E:1199:ILE:CD1	1:E:1232:TYR:CE2	2.77	0.67
1:G:387:SER:HA	1:G:445:LEU:HD13	1.77	0.67
1:G:564:VAL:HG13	1:G:583:GLN:HG2	1.77	0.67
1:G:1220:LEU:HG	1:G:1236:ASP:CB	2.25	0.67
1:I:119:VAL:HG12	1:I:184:TRP:HE3	1.59	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:595:LEU:CG	1:I:1201:TRP:CH2	2.77	0.67
1:K:1178:GLY:O	1:K:1179:TRP:HB2	1.95	0.67
1:K:1185:PHE:HE1	1:K:1192:LEU:HD12	1.53	0.67
1:A:559:PRO:O	1:A:561:PRO:CD	2.42	0.67
1:A:600:LYS:H	1:A:600:LYS:HD3	1.59	0.67
1:C:553:HIS:CB	1:C:610:VAL:HG11	2.22	0.67
1:E:597:TRP:CD1	1:E:1243:ILE:O	2.43	0.67
1:I:359:TYR:CE1	1:I:361:TYR:CD1	2.82	0.67
1:M:875:VAL:CG1	1:M:915:CYS:HA	2.24	0.67
1:A:639:LEU:HG	1:A:653:ILE:CG2	2.25	0.67
1:C:387:SER:HA	1:C:445:LEU:HD13	1.77	0.67
1:G:359:TYR:CE1	1:G:361:TYR:CD1	2.82	0.67
1:G:535:GLU:O	1:G:538:CYS:HB2	1.95	0.67
1:G:540:VAL:CG1	1:G:575:GLU:HB3	2.19	0.67
1:G:1185:PHE:HE1	1:G:1192:LEU:HD12	1.53	0.67
1:I:564:VAL:HG13	1:I:583:GLN:HG2	1.77	0.67
1:M:561:PRO:HB3	1:M:1214:TYR:HD2	1.60	0.67
1:A:636:ASP:O	1:A:637:LYS:CG	2.42	0.67
1:A:866:LEU:HD22	1:A:914:VAL:CB	2.25	0.67
1:A:879:ARG:CB	1:A:921:MET:HE2	2.22	0.67
1:G:1185:PHE:O	1:G:1229:PHE:HZ	1.78	0.67
1:I:431:LYS:HZ2	1:K:336:ASN:HB3	1.58	0.67
1:I:486:PHE:O	1:I:489:TYR:HB3	1.94	0.67
1:I:1185:PHE:O	1:I:1229:PHE:HZ	1.78	0.67
1:K:387:SER:HA	1:K:445:LEU:HD13	1.77	0.67
1:K:867:TRP:HA	1:K:874:LYS:HA	1.75	0.67
1:K:928:VAL:CG2	1:K:1224:HIS:ND1	2.58	0.67
1:M:322:LEU:CD1	1:M:364:LEU:CD2	2.42	0.67
1:M:486:PHE:O	1:M:489:TYR:HB3	1.94	0.67
1:M:639:LEU:HG	1:M:653:ILE:CG2	2.25	0.67
1:A:322:LEU:HD22	1:A:322:LEU:C	2.20	0.67
1:A:1240:ILE:HG23	1:A:1241:LEU:H	1.56	0.67
1:C:322:LEU:HD22	1:C:322:LEU:C	2.20	0.67
1:E:535:GLU:O	1:E:538:CYS:HB2	1.95	0.67
1:G:597:TRP:CH2	1:G:600:LYS:HA	2.30	0.67
1:G:867:TRP:HA	1:G:874:LYS:HA	1.75	0.67
1:I:866:LEU:HD22	1:I:914:VAL:CB	2.25	0.67
1:K:486:PHE:O	1:K:489:TYR:HB3	1.94	0.67
1:M:143:LEU:HD22	1:M:143:LEU:H	1.60	0.67
1:C:639:LEU:HG	1:C:653:ILE:CG2	2.25	0.66
1:E:119:VAL:HG12	1:E:184:TRP:HE3	1.59	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:540:VAL:CG1	1:E:575:GLU:HB3	2.19	0.66
1:G:486:PHE:O	1:G:489:TYR:HB3	1.94	0.66
1:I:374:MET:HE3	1:I:374:MET:CA	2.15	0.66
1:I:1220:LEU:CA	1:I:1236:ASP:HB3	2.25	0.66
1:K:1167:PRO:CB	1:K:1202:TRP:CE3	2.74	0.66
1:M:597:TRP:CH2	1:M:600:LYS:HA	2.30	0.66
1:M:1240:ILE:HG23	1:M:1241:LEU:H	1.56	0.66
1:A:409:GLU:O	1:C:337:ARG:NH2	2.25	0.66
1:A:597:TRP:CH2	1:A:600:LYS:HA	2.30	0.66
1:C:636:ASP:O	1:C:637:LYS:CD	2.42	0.66
1:C:862:TYR:N	1:C:884:TRP:HD1	1.92	0.66
1:E:866:LEU:HD22	1:E:914:VAL:CB	2.25	0.66
1:G:604:THR:N	1:G:1240:ILE:HD13	2.09	0.66
1:I:604:THR:N	1:I:1240:ILE:HD13	2.09	0.66
1:K:597:TRP:CH2	1:K:600:LYS:HA	2.30	0.66
1:K:1094:SER:O	1:K:1095:HIS:HB2	1.94	0.66
1:M:1200:LYS:HE3	1:M:1211:GLN:HB2	1.76	0.66
1:M:1220:LEU:CA	1:M:1236:ASP:HB3	2.25	0.66
1:A:387:SER:HA	1:A:445:LEU:HD13	1.77	0.66
1:A:1167:PRO:CB	1:A:1202:TRP:CE3	2.74	0.66
1:C:597:TRP:CH2	1:C:600:LYS:HA	2.30	0.66
1:C:1185:PHE:HE1	1:C:1192:LEU:HD12	1.53	0.66
1:E:879:ARG:CB	1:E:921:MET:HE2	2.23	0.66
1:G:636:ASP:O	1:G:637:LYS:CD	2.42	0.66
1:G:999:ARG:CZ	1:G:1000:PHE:H	2.09	0.66
1:G:1094:SER:O	1:G:1095:HIS:HB2	1.94	0.66
2:H:33:HIS:CE1	2:H:104:GLU:O	2.46	0.66
1:I:535:GLU:O	1:I:538:CYS:HB2	1.95	0.66
1:K:866:LEU:HD22	1:K:914:VAL:CB	2.25	0.66
1:K:1200:LYS:HE3	1:K:1211:GLN:HB2	1.76	0.66
1:K:1220:LEU:HG	1:K:1236:ASP:CB	2.25	0.66
1:M:322:LEU:HD22	1:M:322:LEU:C	2.20	0.66
1:M:928:VAL:CG2	1:M:1224:HIS:ND1	2.58	0.66
1:A:294:ILE:CG2	1:A:324:VAL:CG1	2.74	0.66
1:C:604:THR:N	1:C:1240:ILE:HD13	2.09	0.66
1:E:564:VAL:HG13	1:E:583:GLN:HG2	1.77	0.66
1:E:1094:SER:O	1:E:1095:HIS:HB2	1.94	0.66
1:G:137:GLN:HG2	1:G:173:LEU:CD2	2.20	0.66
1:I:294:ILE:CG2	1:I:324:VAL:CG1	2.74	0.66
1:I:600:LYS:H	1:I:600:LYS:HD3	1.59	0.66
1:I:1178:GLY:O	1:I:1179:TRP:HB2	1.95	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:294:ILE:CG2	1:K:324:VAL:CG1	2.74	0.66
1:M:294:ILE:CG2	1:M:324:VAL:CG1	2.74	0.66
1:M:999:ARG:CZ	1:M:1000:PHE:H	2.08	0.66
1:M:1199:ILE:HD13	1:M:1232:TYR:HE2	1.58	0.66
1:A:999:ARG:CZ	1:A:1000:PHE:H	2.09	0.66
1:E:322:LEU:HD22	1:E:322:LEU:C	2.20	0.66
1:E:1220:LEU:CA	1:E:1236:ASP:HB3	2.25	0.66
1:I:322:LEU:HD12	1:I:364:LEU:HD23	0.74	0.66
1:I:597:TRP:CH2	1:I:600:LYS:HA	2.30	0.66
1:I:867:TRP:HA	1:I:874:LYS:HA	1.75	0.66
1:K:617:ALA:O	1:K:635:ALA:N	2.24	0.66
1:K:639:LEU:HG	1:K:653:ILE:CG2	2.25	0.66
1:M:381:ASP:O	1:M:384:THR:CG2	2.36	0.66
1:M:1167:PRO:CB	1:M:1202:TRP:CE3	2.74	0.66
1:A:928:VAL:CG2	1:A:1224:HIS:ND1	2.58	0.66
1:C:600:LYS:H	1:C:600:LYS:HD3	1.59	0.66
1:G:119:VAL:HG12	1:G:184:TRP:HE3	1.59	0.66
1:M:387:SER:HA	1:M:445:LEU:HD13	1.77	0.66
1:A:119:VAL:HG12	1:A:184:TRP:HE3	1.59	0.66
1:A:1226:SER:O	1:A:1229:PHE:N	2.29	0.66
1:C:1094:SER:O	1:C:1095:HIS:HB2	1.94	0.66
1:E:639:LEU:HG	1:E:653:ILE:CG2	2.25	0.66
1:E:999:ARG:CZ	1:E:1000:PHE:H	2.09	0.66
1:G:1178:GLY:O	1:G:1179:TRP:HB2	1.95	0.66
2:J:33:HIS:CE1	2:J:104:GLU:O	2.46	0.66
1:M:604:THR:N	1:M:1240:ILE:HD13	2.09	0.66
1:M:1178:GLY:O	1:M:1179:TRP:HB2	1.95	0.66
1:M:1220:LEU:HG	1:M:1236:ASP:CB	2.25	0.66
1:A:121:GLN:OE1	1:M:147:PRO:HG2	1.96	0.66
1:A:564:VAL:HG13	1:A:583:GLN:HG2	1.77	0.66
1:C:364:LEU:CD1	1:C:368:MET:CE	2.74	0.66
1:C:535:GLU:O	1:C:538:CYS:HB2	1.95	0.66
1:C:1220:LEU:CA	1:C:1236:ASP:HB3	2.25	0.66
1:E:1178:GLY:O	1:E:1179:TRP:HB2	1.95	0.66
1:E:1226:SER:O	1:E:1229:PHE:N	2.29	0.66
1:K:143:LEU:HD22	1:K:143:LEU:H	1.60	0.66
1:K:597:TRP:CD1	1:K:1243:ILE:O	2.43	0.66
1:M:301:MET:HG3	1:M:306:LEU:HD21	1.77	0.66
1:M:564:VAL:HG13	1:M:583:GLN:HG2	1.77	0.66
1:C:143:LEU:H	1:C:143:LEU:HD22	1.60	0.66
1:E:1112:TRP:HB3	1:E:1119:PRO:HA	1.78	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:158:CYS:SG	1:G:284:SER:CA	2.84	0.66
1:I:999:ARG:CZ	1:I:1000:PHE:H	2.09	0.66
1:I:1220:LEU:CD2	1:I:1234:THR:OG1	2.40	0.66
1:M:636:ASP:O	1:M:637:LYS:CD	2.42	0.66
1:A:1200:LYS:HE3	1:A:1211:GLN:HB2	1.76	0.66
1:A:1220:LEU:HG	1:A:1236:ASP:CB	2.25	0.66
1:C:307:PRO:HG2	1:C:338:TRP:CZ3	2.31	0.66
1:C:489:TYR:O	1:C:489:TYR:HD1	1.79	0.66
1:E:260:ILE:O	1:E:260:ILE:CG1	2.43	0.66
1:E:294:ILE:CG2	1:E:324:VAL:CG1	2.74	0.66
1:E:1194:SER:OG	1:E:1202:TRP:HE3	1.75	0.66
1:E:1220:LEU:HG	1:E:1236:ASP:CB	2.25	0.66
1:G:301:MET:HG3	1:G:306:LEU:HD21	1.77	0.66
1:G:322:LEU:HD22	1:G:322:LEU:C	2.20	0.66
1:G:416:GLN:HA	1:G:416:GLN:NE2	2.11	0.66
1:G:1112:TRP:HB3	1:G:1119:PRO:HA	1.78	0.66
1:G:1220:LEU:CA	1:G:1236:ASP:HB3	2.25	0.66
1:I:364:LEU:CD1	1:I:368:MET:CE	2.74	0.66
1:I:597:TRP:CD1	1:I:1243:ILE:O	2.43	0.66
1:I:924:GLN:OE1	1:I:924:GLN:N	2.24	0.66
1:I:1226:SER:O	1:I:1229:PHE:N	2.29	0.66
1:K:301:MET:HG3	1:K:306:LEU:HD21	1.77	0.66
1:K:999:ARG:CZ	1:K:1000:PHE:H	2.09	0.66
1:M:158:CYS:SG	1:M:284:SER:CA	2.84	0.66
1:A:301:MET:HG3	1:A:306:LEU:HD21	1.77	0.65
1:A:307:PRO:HG2	1:A:338:TRP:CZ3	2.31	0.65
1:A:1171:GLU:HG3	1:A:1172:GLY:N	2.06	0.65
1:C:564:VAL:HG13	1:C:583:GLN:HG2	1.77	0.65
1:C:999:ARG:CZ	1:C:1000:PHE:H	2.09	0.65
1:G:334:PHE:CG	1:G:337:ARG:HD2	2.31	0.65
1:G:678:ASP:O	1:G:679:LYS:HB2	1.96	0.65
1:I:158:CYS:SG	1:I:284:SER:CA	2.84	0.65
1:I:307:PRO:HG2	1:I:338:TRP:CZ3	2.31	0.65
1:I:639:LEU:HG	1:I:653:ILE:CG2	2.25	0.65
1:I:1220:LEU:HG	1:I:1236:ASP:CB	2.25	0.65
1:K:322:LEU:HD22	1:K:322:LEU:C	2.20	0.65
1:K:535:GLU:O	1:K:538:CYS:HB2	1.95	0.65
1:M:866:LEU:HD22	1:M:914:VAL:CB	2.25	0.65
1:E:147:PRO:HG2	1:G:121:GLN:OE1	1.96	0.65
1:E:307:PRO:HG2	1:E:338:TRP:CZ3	2.31	0.65
1:G:639:LEU:HG	1:G:653:ILE:CG2	2.25	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:882:LEU:CD2	1:G:882:LEU:N	2.39	0.65
1:G:999:ARG:CD	1:G:1030:TRP:NE1	2.59	0.65
1:I:922:LEU:HD11	1:I:1241:LEU:HD23	1.79	0.65
1:K:409:GLU:O	1:M:337:ARG:NH2	2.25	0.65
1:K:564:VAL:HG13	1:K:583:GLN:HG2	1.77	0.65
1:K:922:LEU:HD11	1:K:1241:LEU:HD23	1.79	0.65
1:K:985:ILE:HD11	1:K:1006:VAL:HG21	1.78	0.65
1:A:158:CYS:SG	1:A:284:SER:CA	2.84	0.65
1:A:883:SER:CB	1:A:902:ASP:HB3	2.26	0.65
1:A:1178:GLY:O	1:A:1179:TRP:HB2	1.94	0.65
1:C:883:SER:CB	1:C:902:ASP:HB3	2.26	0.65
1:E:301:MET:HG3	1:E:306:LEU:HD21	1.77	0.65
1:G:489:TYR:HD1	1:G:489:TYR:O	1.79	0.65
1:G:866:LEU:HD22	1:G:914:VAL:CB	2.25	0.65
1:I:334:PHE:CG	1:I:337:ARG:HD2	2.31	0.65
1:I:489:TYR:O	1:I:489:TYR:HD1	1.79	0.65
1:K:561:PRO:HB3	1:K:1214:TYR:HD2	1.60	0.65
1:K:1171:GLU:HG3	1:K:1172:GLY:N	2.06	0.65
1:K:1220:LEU:CD2	1:K:1234:THR:OG1	2.40	0.65
1:K:1226:SER:O	1:K:1229:PHE:N	2.29	0.65
1:M:416:GLN:HA	1:M:416:GLN:NE2	2.11	0.65
1:M:597:TRP:HH2	1:M:603:ILE:CG1	2.10	0.65
1:M:1200:LYS:HG3	1:M:1211:GLN:CB	2.27	0.65
1:A:535:GLU:O	1:A:538:CYS:HB2	1.95	0.65
1:A:597:TRP:CD1	1:A:1243:ILE:O	2.43	0.65
1:E:364:LEU:CD1	1:E:368:MET:CE	2.74	0.65
1:G:364:LEU:CD1	1:G:368:MET:CE	2.74	0.65
1:G:862:TYR:HA	1:G:885:VAL:HG13	1.79	0.65
1:G:1226:SER:O	1:G:1229:PHE:N	2.29	0.65
1:I:416:GLN:NE2	1:I:416:GLN:HA	2.11	0.65
1:I:544:PHE:HE1	1:I:576:VAL:CG1	1.88	0.65
1:I:985:ILE:HD11	1:I:1006:VAL:HG21	1.78	0.65
1:I:999:ARG:CD	1:I:1030:TRP:NE1	2.59	0.65
1:I:1200:LYS:HG3	1:I:1211:GLN:CB	2.27	0.65
1:K:212:PHE:CD2	1:K:230:LEU:HD21	2.32	0.65
1:K:334:PHE:CG	1:K:337:ARG:HD2	2.31	0.65
1:M:1226:SER:O	1:M:1229:PHE:N	2.29	0.65
1:A:489:TYR:O	1:A:489:TYR:HD1	1.79	0.65
1:A:573:THR:HA	1:A:577:TYR:HD2	1.62	0.65
1:C:866:LEU:HD22	1:C:914:VAL:CB	2.25	0.65
1:C:1112:TRP:HB3	1:C:1119:PRO:HA	1.78	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1185:PHE:O	1:C:1229:PHE:HZ	1.78	0.65
2:F:33:HIS:CE1	2:F:104:GLU:O	2.46	0.65
1:G:307:PRO:HG2	1:G:338:TRP:CZ3	2.31	0.65
1:I:1199:ILE:CD1	1:I:1232:TYR:CE2	2.77	0.65
1:K:1220:LEU:CA	1:K:1236:ASP:HB3	2.25	0.65
1:M:879:ARG:CB	1:M:921:MET:HE2	2.23	0.65
1:C:212:PHE:CD2	1:C:230:LEU:HD21	2.32	0.65
1:C:1226:SER:O	1:C:1229:PHE:N	2.29	0.65
2:D:33:HIS:CE1	2:D:104:GLU:O	2.46	0.65
1:E:212:PHE:CD2	1:E:230:LEU:HD21	2.32	0.65
1:E:334:PHE:CG	1:E:337:ARG:HD2	2.31	0.65
1:E:928:VAL:CG2	1:E:1224:HIS:ND1	2.58	0.65
1:G:260:ILE:O	1:G:260:ILE:CG1	2.43	0.65
1:G:513:LYS:HD3	1:G:522:LEU:CG	2.27	0.65
1:I:322:LEU:HD22	1:I:322:LEU:C	2.20	0.65
1:K:416:GLN:HA	1:K:416:GLN:NE2	2.11	0.65
1:K:862:TYR:HA	1:K:885:VAL:HG13	1.79	0.65
1:K:1200:LYS:HG3	1:K:1211:GLN:CB	2.27	0.65
1:M:535:GLU:O	1:M:538:CYS:HB2	1.95	0.65
1:C:427:ASP:CG	1:C:434:ARG:HG2	2.22	0.65
1:C:513:LYS:HD3	1:C:522:LEU:CG	2.27	0.65
1:C:927:ASP:O	1:C:938:LEU:CB	2.24	0.65
1:C:985:ILE:HD11	1:C:1006:VAL:HG21	1.78	0.65
1:E:572:GLU:O	1:E:573:THR:HG23	1.97	0.65
1:G:143:LEU:HD22	1:G:143:LEU:H	1.60	0.65
1:I:260:ILE:O	1:I:260:ILE:CG1	2.43	0.65
1:I:862:TYR:HA	1:I:885:VAL:HG13	1.79	0.65
1:K:1151:ILE:HG12	1:K:1167:PRO:HG2	1.79	0.65
1:K:1201:TRP:HB2	1:K:1210:SER:C	2.22	0.65
1:M:883:SER:CB	1:M:902:ASP:HB3	2.26	0.65
1:M:1201:TRP:HB2	1:M:1210:SER:C	2.22	0.65
1:A:262:LEU:HD11	1:A:270:THR:CG2	2.27	0.65
1:A:1220:LEU:CA	1:A:1236:ASP:HB3	2.25	0.65
1:C:158:CYS:SG	1:C:284:SER:CA	2.84	0.65
1:C:262:LEU:HD11	1:C:270:THR:CG2	2.27	0.65
1:C:416:GLN:HA	1:C:416:GLN:NE2	2.11	0.65
1:C:564:VAL:HG11	1:C:583:GLN:HG3	1.79	0.65
1:E:416:GLN:HA	1:E:416:GLN:NE2	2.11	0.65
1:E:431:LYS:HZ2	1:G:336:ASN:HB3	1.57	0.65
1:G:597:TRP:HH2	1:G:603:ILE:CG1	2.10	0.65
1:G:1200:LYS:HG3	1:G:1211:GLN:CB	2.27	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:147:PRO:HG2	1:K:121:GLN:OE1	1.96	0.65
1:I:212:PHE:CD2	1:I:230:LEU:HD21	2.32	0.65
1:I:290:LYS:O	1:I:293:GLU:HB3	1.97	0.65
1:I:427:ASP:CG	1:I:434:ARG:HG2	2.22	0.65
1:I:1112:TRP:HB3	1:I:1119:PRO:HA	1.78	0.65
1:K:262:LEU:HD11	1:K:270:THR:CG2	2.27	0.65
1:K:307:PRO:HG2	1:K:338:TRP:CZ3	2.31	0.65
1:M:307:PRO:HG2	1:M:338:TRP:CZ3	2.31	0.65
1:M:461:ILE:HD13	1:M:491:MET:CG	2.27	0.65
1:M:573:THR:HA	1:M:577:TYR:HD2	1.62	0.65
1:M:985:ILE:HD11	1:M:1006:VAL:HG21	1.78	0.65
1:A:262:LEU:HD21	1:A:270:THR:CG2	2.27	0.65
1:A:364:LEU:CD1	1:A:368:MET:CE	2.74	0.65
1:A:513:LYS:HD3	1:A:522:LEU:CG	2.27	0.65
1:A:882:LEU:CD2	1:A:882:LEU:N	2.39	0.65
1:C:294:ILE:CG2	1:C:324:VAL:CG1	2.74	0.65
1:E:158:CYS:SG	1:E:284:SER:CA	2.84	0.65
1:E:364:LEU:CD1	1:E:368:MET:HE2	2.27	0.65
1:E:862:TYR:N	1:E:884:TRP:HD1	1.92	0.65
1:E:862:TYR:HA	1:E:885:VAL:HG13	1.79	0.65
1:E:883:SER:CB	1:E:902:ASP:HB3	2.26	0.65
1:G:364:LEU:CD1	1:G:368:MET:HE2	2.27	0.65
1:G:1199:ILE:CD1	1:G:1232:TYR:CE2	2.77	0.65
1:I:301:MET:HG3	1:I:306:LEU:HD21	1.77	0.65
1:I:513:LYS:HD3	1:I:522:LEU:CG	2.27	0.65
1:K:147:PRO:HG2	1:M:121:GLN:OE1	1.96	0.65
1:K:427:ASP:CG	1:K:434:ARG:HG2	2.22	0.65
1:K:461:ILE:HD13	1:K:491:MET:CG	2.27	0.65
1:K:540:VAL:CG1	1:K:575:GLU:HB3	2.19	0.65
1:K:1199:ILE:CD1	1:K:1232:TYR:CE2	2.77	0.65
1:M:212:PHE:CD2	1:M:230:LEU:HD21	2.32	0.65
1:M:262:LEU:HD11	1:M:270:THR:CG2	2.27	0.65
1:M:564:VAL:HG11	1:M:583:GLN:HG3	1.79	0.65
1:M:862:TYR:N	1:M:884:TRP:HD1	1.92	0.65
1:M:922:LEU:HD11	1:M:1241:LEU:HD23	1.79	0.65
1:M:1112:TRP:HB3	1:M:1119:PRO:HA	1.78	0.65
1:A:147:PRO:HG2	1:C:121:GLN:OE1	1.96	0.65
1:A:334:PHE:CG	1:A:337:ARG:HD2	2.31	0.65
1:A:416:GLN:NE2	1:A:416:GLN:HA	2.11	0.65
1:C:294:ILE:CG2	1:C:324:VAL:HG11	2.22	0.65
1:C:334:PHE:CG	1:C:337:ARG:HD2	2.31	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:513:LYS:HD3	1:E:522:LEU:CG	2.27	0.65
1:E:985:ILE:HD11	1:E:1006:VAL:HG21	1.78	0.65
1:G:256:SER:O	1:G:257:GLN:HB2	1.97	0.65
1:G:1110:LYS:HD3	1:G:1119:PRO:HG3	1.79	0.65
1:G:1151:ILE:HG12	1:G:1167:PRO:HG2	1.79	0.65
1:I:1151:ILE:HG12	1:I:1167:PRO:HG2	1.79	0.65
1:I:1201:TRP:HB2	1:I:1210:SER:C	2.22	0.65
1:K:158:CYS:SG	1:K:284:SER:CA	2.84	0.65
1:K:364:LEU:CD1	1:K:368:MET:CE	2.74	0.65
1:M:262:LEU:HD21	1:M:270:THR:CG2	2.27	0.65
1:M:489:TYR:O	1:M:489:TYR:HD1	1.79	0.65
1:M:513:LYS:HD3	1:M:522:LEU:CG	2.27	0.65
1:M:862:TYR:HA	1:M:885:VAL:HG13	1.79	0.65
1:A:212:PHE:CD2	1:A:230:LEU:HD21	2.32	0.64
1:A:364:LEU:CD1	1:A:368:MET:HE2	2.27	0.64
1:A:427:ASP:CG	1:A:434:ARG:HG2	2.22	0.64
1:A:657:GLU:HG2	1:A:680:LYS:HZ1	1.59	0.64
1:C:147:PRO:HG2	1:E:121:GLN:OE1	1.96	0.64
1:C:364:LEU:CD1	1:C:368:MET:HE2	2.27	0.64
1:C:1167:PRO:CB	1:C:1202:TRP:CE3	2.74	0.64
1:E:573:THR:HA	1:E:577:TYR:HD2	1.62	0.64
1:E:1110:LYS:HD3	1:E:1119:PRO:HG3	1.79	0.64
1:G:1171:GLU:HG3	1:G:1172:GLY:N	2.06	0.64
1:I:461:ILE:HD13	1:I:491:MET:CG	2.27	0.64
1:I:883:SER:CB	1:I:902:ASP:HB3	2.27	0.64
1:K:262:LEU:HD21	1:K:270:THR:CG2	2.27	0.64
1:K:290:LYS:O	1:K:293:GLU:HB3	1.97	0.64
1:K:453:LEU:HD11	1:K:454:GLN:NE2	2.00	0.64
1:K:597:TRP:HH2	1:K:603:ILE:CG1	2.10	0.64
1:A:1235:VAL:HG22	1:A:1235:VAL:O	1.97	0.64
1:C:260:ILE:CG1	1:C:260:ILE:O	2.43	0.64
1:C:597:TRP:HH2	1:C:603:ILE:CG1	2.10	0.64
1:C:597:TRP:CD1	1:C:1243:ILE:O	2.43	0.64
1:C:678:ASP:O	1:C:679:LYS:HB2	1.96	0.64
1:E:256:SER:O	1:E:257:GLN:HB2	1.97	0.64
1:E:262:LEU:HD11	1:E:270:THR:CG2	2.27	0.64
1:E:427:ASP:CG	1:E:434:ARG:HG2	2.22	0.64
1:E:489:TYR:O	1:E:489:TYR:HD1	1.79	0.64
1:E:1185:PHE:O	1:E:1229:PHE:HZ	1.78	0.64
1:E:1235:VAL:O	1:E:1235:VAL:HG22	1.97	0.64
1:G:147:PRO:HG2	1:I:121:GLN:OE1	1.96	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:290:LYS:O	1:G:293:GLU:HB3	1.97	0.64
1:G:1235:VAL:HG22	1:G:1235:VAL:O	1.97	0.64
1:I:364:LEU:CD1	1:I:368:MET:HE2	2.27	0.64
1:I:1110:LYS:HD3	1:I:1119:PRO:HG3	1.79	0.64
1:K:127:VAL:N	3:K:1301:DTP:HN61	1.93	0.64
1:K:513:LYS:HD3	1:K:522:LEU:CG	2.27	0.64
1:M:427:ASP:CG	1:M:434:ARG:HG2	2.22	0.64
1:M:1151:ILE:HG12	1:M:1167:PRO:HG2	1.79	0.64
1:A:572:GLU:O	1:A:573:THR:HG23	1.97	0.64
1:A:862:TYR:HA	1:A:885:VAL:HG13	1.79	0.64
1:C:290:LYS:O	1:C:293:GLU:HB3	1.97	0.64
1:C:301:MET:HG3	1:C:306:LEU:HD21	1.77	0.64
1:C:1178:GLY:O	1:C:1179:TRP:HB2	1.95	0.64
1:C:1235:VAL:O	1:C:1235:VAL:HG22	1.97	0.64
1:G:212:PHE:CD2	1:G:230:LEU:HD21	2.32	0.64
1:G:262:LEU:HD21	1:G:270:THR:CG2	2.27	0.64
1:G:928:VAL:CG2	1:G:1224:HIS:ND1	2.58	0.64
1:G:985:ILE:HD11	1:G:1006:VAL:HG21	1.78	0.64
1:G:1201:TRP:HB2	1:G:1210:SER:C	2.22	0.64
1:I:588:VAL:HG12	1:I:1248:GLU:C	2.23	0.64
1:I:678:ASP:O	1:I:679:LYS:HB2	1.96	0.64
1:K:573:THR:HA	1:K:577:TYR:HD2	1.62	0.64
1:K:588:VAL:HG12	1:K:1248:GLU:C	2.23	0.64
1:K:1112:TRP:HB3	1:K:1119:PRO:HA	1.78	0.64
1:M:678:ASP:O	1:M:679:LYS:HB2	1.96	0.64
1:A:461:ILE:HD13	1:A:491:MET:CG	2.27	0.64
1:A:678:ASP:O	1:A:679:LYS:HB2	1.96	0.64
1:A:1112:TRP:HB3	1:A:1119:PRO:HA	1.78	0.64
1:A:1201:TRP:HB2	1:A:1210:SER:C	2.22	0.64
1:C:262:LEU:HD21	1:C:270:THR:CG2	2.27	0.64
1:C:1200:LYS:HG3	1:C:1211:GLN:CB	2.27	0.64
1:I:561:PRO:HB3	1:I:1214:TYR:HD2	1.59	0.64
1:I:1235:VAL:O	1:I:1235:VAL:HG22	1.97	0.64
1:K:381:ASP:O	1:K:384:THR:CG2	2.36	0.64
1:M:588:VAL:HG12	1:M:1248:GLU:C	2.23	0.64
1:M:657:GLU:HG2	1:M:680:LYS:HZ1	1.58	0.64
1:M:1235:VAL:O	1:M:1235:VAL:HG22	1.97	0.64
1:C:256:SER:O	1:C:257:GLN:HB2	1.97	0.64
1:C:573:THR:HA	1:C:577:TYR:HD2	1.62	0.64
1:C:882:LEU:CD2	1:C:882:LEU:N	2.39	0.64
1:E:564:VAL:HG11	1:E:583:GLN:HG3	1.79	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:678:ASP:O	1:E:679:LYS:HB2	1.96	0.64
1:G:588:VAL:HG12	1:G:1248:GLU:C	2.23	0.64
1:I:262:LEU:HD11	1:I:270:THR:CG2	2.27	0.64
1:I:294:ILE:CG2	1:I:324:VAL:HG11	2.22	0.64
1:I:573:THR:HA	1:I:577:TYR:HD2	1.62	0.64
1:M:334:PHE:CG	1:M:337:ARG:HD2	2.31	0.64
1:A:556:GLY:O	1:A:557:ARG:C	2.41	0.64
1:A:985:ILE:HD11	1:A:1006:VAL:HG21	1.78	0.64
1:A:1167:PRO:HB3	1:A:1202:TRP:CE2	2.32	0.64
1:C:862:TYR:HA	1:C:885:VAL:HG13	1.79	0.64
1:C:1110:LYS:HD3	1:C:1119:PRO:HG3	1.79	0.64
1:I:256:SER:O	1:I:257:GLN:HB2	1.97	0.64
1:K:544:PHE:HD1	1:K:576:VAL:CG2	2.11	0.64
1:M:290:LYS:O	1:M:293:GLU:HB3	1.97	0.64
1:M:364:LEU:CD1	1:M:368:MET:CE	2.74	0.64
1:A:725:LEU:HB2	1:A:739:MET:HB2	1.80	0.64
1:C:725:LEU:HB2	1:C:739:MET:HB2	1.80	0.64
1:E:262:LEU:HD21	1:E:270:THR:CG2	2.27	0.64
1:E:597:TRP:NE1	1:E:1243:ILE:H	1.96	0.64
1:I:262:LEU:HD21	1:I:270:THR:CG2	2.27	0.64
1:I:597:TRP:NE1	1:I:1243:ILE:H	1.96	0.64
1:K:364:LEU:CD1	1:K:368:MET:HE2	2.27	0.64
1:K:489:TYR:O	1:K:489:TYR:HD1	1.79	0.64
1:M:1143:ALA:HB1	1:M:1183:LEU:CD2	2.28	0.64
2:N:33:HIS:CE1	2:N:104:GLU:O	2.46	0.64
1:A:256:SER:O	1:A:257:GLN:HB2	1.97	0.64
1:A:290:LYS:O	1:A:293:GLU:HB3	1.97	0.64
1:A:1143:ALA:HB1	1:A:1183:LEU:CD2	2.28	0.64
1:E:999:ARG:CD	1:E:1030:TRP:NE1	2.59	0.64
1:I:146:GLU:HB3	1:I:147:PRO:HD2	1.80	0.64
1:I:544:PHE:HD1	1:I:576:VAL:CG2	2.11	0.64
1:I:572:GLU:O	1:I:573:THR:HG23	1.97	0.64
1:I:1143:ALA:HB1	1:I:1183:LEU:CD2	2.28	0.64
1:K:564:VAL:HG11	1:K:583:GLN:HG3	1.79	0.64
1:K:948:LEU:HD12	1:K:957:ASP:CB	2.28	0.64
1:A:127:VAL:N	3:A:1301:DTP:HN61	1.93	0.64
1:A:137:GLN:HG2	1:A:173:LEU:HD13	1.80	0.64
1:A:1200:LYS:HG3	1:A:1211:GLN:CB	2.27	0.64
1:C:572:GLU:O	1:C:573:THR:HG23	1.97	0.64
1:E:1200:LYS:HG3	1:E:1211:GLN:CB	2.27	0.64
1:G:262:LEU:HD11	1:G:270:THR:CG2	2.27	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:294:ILE:CG2	1:G:324:VAL:CG1	2.74	0.64
1:G:427:ASP:CG	1:G:434:ARG:HG2	2.22	0.64
1:G:461:ILE:HD13	1:G:491:MET:CG	2.27	0.64
1:G:544:PHE:HD1	1:G:576:VAL:CG2	2.11	0.64
1:K:137:GLN:HG2	1:K:173:LEU:HD13	1.80	0.64
1:K:146:GLU:HB3	1:K:147:PRO:HD2	1.80	0.64
1:K:883:SER:CB	1:K:902:ASP:HB3	2.26	0.64
1:K:1143:ALA:HB1	1:K:1183:LEU:CD2	2.28	0.64
1:K:1232:TYR:CZ	1:K:1234:THR:HB	2.33	0.64
1:M:137:GLN:HG2	1:M:173:LEU:HD13	1.80	0.64
1:M:301:MET:HG3	1:M:306:LEU:CD2	2.28	0.64
1:M:948:LEU:HD12	1:M:957:ASP:CB	2.28	0.64
1:M:1167:PRO:HB3	1:M:1202:TRP:CE2	2.32	0.64
1:A:948:LEU:HD12	1:A:957:ASP:CB	2.28	0.64
1:C:948:LEU:HD12	1:C:957:ASP:CB	2.28	0.64
1:C:1201:TRP:HB2	1:C:1210:SER:C	2.22	0.64
1:E:544:PHE:HD1	1:E:576:VAL:CG2	2.11	0.64
1:E:1151:ILE:HG12	1:E:1167:PRO:HG2	1.79	0.64
1:E:1201:TRP:HB2	1:E:1210:SER:C	2.22	0.64
1:G:127:VAL:N	3:G:1301:DTP:HN61	1.93	0.64
1:G:453:LEU:HD11	1:G:454:GLN:NE2	2.00	0.64
1:G:561:PRO:HB3	1:G:1214:TYR:HD2	1.60	0.64
1:G:572:GLU:O	1:G:573:THR:HG23	1.97	0.64
1:G:883:SER:CB	1:G:902:ASP:HB3	2.26	0.64
1:G:1143:ALA:HB1	1:G:1183:LEU:CD2	2.28	0.64
1:G:1232:TYR:CZ	1:G:1234:THR:HB	2.33	0.64
1:I:948:LEU:HD12	1:I:957:ASP:CB	2.28	0.64
1:K:678:ASP:O	1:K:679:LYS:HB2	1.96	0.64
1:K:999:ARG:CD	1:K:1030:TRP:NE1	2.59	0.64
1:M:544:PHE:HD1	1:M:576:VAL:CG2	2.11	0.64
1:A:212:PHE:CE2	1:A:230:LEU:HD21	2.34	0.63
1:C:928:VAL:CG2	1:C:1224:HIS:ND1	2.58	0.63
1:C:1167:PRO:HB3	1:C:1202:TRP:CE2	2.32	0.63
1:I:556:GLY:O	1:I:557:ARG:C	2.41	0.63
1:I:927:ASP:O	1:I:938:LEU:CB	2.24	0.63
1:K:364:LEU:HD13	1:K:364:LEU:C	2.24	0.63
1:M:212:PHE:CE2	1:M:230:LEU:HD21	2.33	0.63
1:M:256:SER:O	1:M:257:GLN:HB2	1.97	0.63
1:A:544:PHE:HD1	1:A:576:VAL:CG2	2.11	0.63
1:A:1151:ILE:HG12	1:A:1167:PRO:HG2	1.79	0.63
1:A:1232:TYR:CZ	1:A:1234:THR:HB	2.33	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:480:CYS:HA	1:C:483:TRP:CD1	2.33	0.63
1:E:334:PHE:HB2	1:E:337:ARG:CD	2.29	0.63
1:E:588:VAL:HG12	1:E:1248:GLU:C	2.23	0.63
1:E:725:LEU:HB2	1:E:739:MET:HB2	1.80	0.63
1:I:137:GLN:HG2	1:I:173:LEU:HD13	1.80	0.63
1:I:334:PHE:HB2	1:I:337:ARG:CD	2.29	0.63
1:A:301:MET:HG3	1:A:306:LEU:CD2	2.28	0.63
1:A:364:LEU:HD13	1:A:364:LEU:C	2.24	0.63
1:A:564:VAL:HG11	1:A:583:GLN:HG3	1.79	0.63
1:C:212:PHE:CE2	1:C:230:LEU:HD21	2.33	0.63
1:C:364:LEU:HD13	1:C:364:LEU:C	2.24	0.63
1:C:544:PHE:HD1	1:C:576:VAL:CG2	2.11	0.63
1:C:588:VAL:HG12	1:C:1248:GLU:C	2.23	0.63
1:E:127:VAL:N	3:E:1301:DTP:HN61	1.93	0.63
1:E:948:LEU:HD12	1:E:957:ASP:CB	2.28	0.63
1:E:1143:ALA:HB1	1:E:1183:LEU:CD2	2.28	0.63
1:G:862:TYR:N	1:G:884:TRP:HD1	1.92	0.63
1:G:948:LEU:HD12	1:G:957:ASP:CB	2.28	0.63
1:G:1199:ILE:HD11	1:G:1232:TYR:HE2	1.62	0.63
1:I:364:LEU:HD13	1:I:364:LEU:C	2.24	0.63
1:M:364:LEU:HD13	1:M:364:LEU:C	2.24	0.63
1:M:556:GLY:O	1:M:557:ARG:C	2.41	0.63
1:M:572:GLU:O	1:M:573:THR:HG23	1.97	0.63
1:M:902:ASP:CB	2:N:72:LYS:HZ2	2.12	0.63
1:A:480:CYS:HA	1:A:483:TRP:CD1	2.33	0.63
1:A:597:TRP:HH2	1:A:603:ILE:CG1	2.10	0.63
1:A:904:GLN:NE2	1:A:1174:ALA:O	2.32	0.63
1:A:922:LEU:HD11	1:A:1241:LEU:HD23	1.78	0.63
1:A:1110:LYS:HD3	1:A:1119:PRO:HG3	1.79	0.63
1:C:1143:ALA:HB1	1:C:1183:LEU:CD2	2.28	0.63
1:G:573:THR:HA	1:G:577:TYR:HD2	1.62	0.63
1:I:252:LYS:HA	1:I:252:LYS:HE3	1.81	0.63
1:I:725:LEU:HB2	1:I:739:MET:HB2	1.80	0.63
1:K:252:LYS:HA	1:K:252:LYS:HE3	1.81	0.63
1:K:572:GLU:O	1:K:573:THR:HG23	1.97	0.63
1:A:588:VAL:HG12	1:A:1248:GLU:C	2.22	0.63
1:A:597:TRP:NE1	1:A:1243:ILE:H	1.96	0.63
1:A:683:ILE:HB	1:A:693:HIS:HB2	1.80	0.63
1:C:666:SER:HB3	1:C:671:PHE:HB2	1.80	0.63
1:C:999:ARG:CD	1:C:1030:TRP:NE1	2.59	0.63
1:E:364:LEU:HD13	1:E:364:LEU:C	2.24	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1225:VAL:HG11	1:E:1229:PHE:CZ	2.34	0.63
1:G:556:GLY:O	1:G:557:ARG:C	2.41	0.63
1:G:725:LEU:HB2	1:G:739:MET:HB2	1.80	0.63
1:K:334:PHE:HB2	1:K:337:ARG:CD	2.29	0.63
1:K:1110:LYS:HD3	1:K:1119:PRO:HG3	1.79	0.63
1:M:597:TRP:NE1	1:M:1243:ILE:H	1.96	0.63
1:M:924:GLN:CB	1:M:1238:LEU:HG	2.28	0.63
1:A:999:ARG:CD	1:A:1030:TRP:CD1	2.76	0.63
1:C:1225:VAL:HG11	1:C:1229:PHE:CZ	2.34	0.63
1:E:556:GLY:O	1:E:557:ARG:C	2.41	0.63
1:E:666:SER:HB3	1:E:671:PHE:HB2	1.80	0.63
1:G:364:LEU:HD13	1:G:364:LEU:C	2.24	0.63
1:G:597:TRP:NE1	1:G:1243:ILE:H	1.96	0.63
1:I:904:GLN:NE2	1:I:1174:ALA:O	2.32	0.63
1:K:212:PHE:CE2	1:K:230:LEU:HD21	2.33	0.63
1:K:597:TRP:NE1	1:K:1243:ILE:H	1.96	0.63
1:K:904:GLN:NE2	1:K:1174:ALA:O	2.32	0.63
1:A:252:LYS:HA	1:A:252:LYS:HE3	1.81	0.63
1:A:1185:PHE:HE1	1:A:1192:LEU:HD12	1.53	0.63
1:C:252:LYS:HA	1:C:252:LYS:HE3	1.81	0.63
1:C:597:TRP:HE1	1:C:1243:ILE:H	1.47	0.63
1:C:1151:ILE:HG12	1:C:1167:PRO:HG2	1.79	0.63
1:E:1232:TYR:CZ	1:E:1234:THR:HB	2.33	0.63
1:G:146:GLU:HB3	1:G:147:PRO:HD2	1.80	0.63
1:G:155:MET:CE	1:G:441:GLN:HE21	2.12	0.63
1:G:301:MET:HG3	1:G:306:LEU:CD2	2.28	0.63
1:G:1132:CYS:O	1:G:1145:GLY:N	2.32	0.63
1:I:1232:TYR:CZ	1:I:1234:THR:HB	2.33	0.63
1:M:260:ILE:O	1:M:260:ILE:CG1	2.43	0.63
1:M:725:LEU:HB2	1:M:739:MET:HB2	1.80	0.63
1:M:904:GLN:NE2	1:M:1174:ALA:O	2.32	0.63
1:M:1225:VAL:HG11	1:M:1229:PHE:CZ	2.34	0.63
1:C:137:GLN:HG2	1:C:173:LEU:HD13	1.80	0.63
1:C:155:MET:CE	1:C:441:GLN:HE21	2.12	0.63
1:C:556:GLY:O	1:C:557:ARG:C	2.41	0.63
1:C:904:GLN:NE2	1:C:1174:ALA:O	2.32	0.63
1:E:290:LYS:O	1:E:293:GLU:HB3	1.97	0.63
1:E:561:PRO:HB3	1:E:1214:TYR:HD2	1.59	0.63
1:G:1167:PRO:CB	1:G:1202:TRP:CE3	2.74	0.63
1:I:212:PHE:CE2	1:I:230:LEU:HD21	2.33	0.63
1:K:256:SER:O	1:K:257:GLN:HB2	1.97	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:364:LEU:CD1	1:M:368:MET:HE2	2.27	0.63
1:M:588:VAL:CG1	1:M:1248:GLU:C	2.72	0.63
1:M:1110:LYS:HD3	1:M:1119:PRO:HG3	1.79	0.63
1:A:155:MET:CE	1:A:441:GLN:HE21	2.12	0.63
1:E:1132:CYS:O	1:E:1145:GLY:N	2.32	0.63
1:G:137:GLN:HG2	1:G:173:LEU:HD13	1.80	0.63
1:G:904:GLN:NE2	1:G:1174:ALA:O	2.31	0.63
1:I:457:HIS:CG	1:I:493:SER:CB	2.64	0.63
1:I:876:ALA:CB	1:I:914:VAL:O	2.45	0.63
1:I:1132:CYS:O	1:I:1145:GLY:N	2.32	0.63
1:I:1199:ILE:HD11	1:I:1232:TYR:OH	1.99	0.63
1:M:252:LYS:HA	1:M:252:LYS:HE3	1.81	0.63
1:M:597:TRP:HE1	1:M:1243:ILE:H	1.47	0.63
1:M:597:TRP:CD1	1:M:1243:ILE:O	2.43	0.63
1:M:683:ILE:HB	1:M:693:HIS:HB2	1.80	0.63
1:M:882:LEU:CD2	1:M:882:LEU:N	2.39	0.63
1:C:127:VAL:N	3:C:1301:DTP:HN61	1.93	0.62
1:C:301:MET:HG3	1:C:306:LEU:CD2	2.28	0.62
1:C:565:GLN:HE22	1:C:568:LEU:HD11	1.64	0.62
1:C:588:VAL:CG1	1:C:1248:GLU:C	2.72	0.62
1:E:212:PHE:CE2	1:E:230:LEU:HD21	2.33	0.62
1:G:212:PHE:CE2	1:G:230:LEU:HD21	2.33	0.62
1:G:334:PHE:HB2	1:G:337:ARG:CD	2.29	0.62
1:G:683:ILE:HB	1:G:693:HIS:HB2	1.80	0.62
1:I:301:MET:HG3	1:I:306:LEU:CD2	2.28	0.62
1:I:564:VAL:HG11	1:I:583:GLN:HG3	1.79	0.62
1:I:1225:VAL:HG11	1:I:1229:PHE:CZ	2.34	0.62
1:K:666:SER:HB3	1:K:671:PHE:HB2	1.80	0.62
1:K:1132:CYS:O	1:K:1145:GLY:N	2.32	0.62
1:K:1199:ILE:HD11	1:K:1232:TYR:OH	1.99	0.62
1:K:1225:VAL:HG11	1:K:1229:PHE:CZ	2.34	0.62
1:M:666:SER:HB3	1:M:671:PHE:HB2	1.80	0.62
1:M:1232:TYR:CZ	1:M:1234:THR:HB	2.33	0.62
1:A:684:TRP:HA	1:A:691:LEU:HA	1.81	0.62
1:E:301:MET:HG3	1:E:306:LEU:CD2	2.28	0.62
1:E:461:ILE:HD13	1:E:491:MET:CG	2.27	0.62
1:G:1008:HIS:HE1	1:G:1010:GLN:HB2	1.65	0.62
1:K:725:LEU:HB2	1:K:739:MET:HB2	1.80	0.62
1:K:1167:PRO:HB3	1:K:1202:TRP:CE2	2.32	0.62
1:M:480:CYS:HA	1:M:483:TRP:CD1	2.33	0.62
1:M:1008:HIS:HE1	1:M:1010:GLN:HB2	1.64	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:565:GLN:HE22	1:A:568:LEU:HD11	1.65	0.62
1:C:334:PHE:HB2	1:C:337:ARG:CD	2.29	0.62
1:C:684:TRP:HA	1:C:691:LEU:HA	1.81	0.62
1:E:767:LEU:HD21	1:E:815:VAL:HG11	1.82	0.62
1:E:904:GLN:NE2	1:E:1174:ALA:O	2.32	0.62
1:G:252:LYS:HA	1:G:252:LYS:HE3	1.81	0.62
1:G:360:ASP:C	1:G:361:TYR:CD1	2.78	0.62
1:G:1199:ILE:HD11	1:G:1232:TYR:OH	1.99	0.62
1:K:457:HIS:CG	1:K:493:SER:CB	2.64	0.62
1:K:544:PHE:HE1	1:K:576:VAL:CG1	1.88	0.62
1:K:767:LEU:HD21	1:K:815:VAL:HG11	1.82	0.62
1:M:146:GLU:HB3	1:M:147:PRO:HD2	1.80	0.62
1:M:1132:CYS:O	1:M:1145:GLY:N	2.32	0.62
1:A:597:TRP:CZ3	1:A:600:LYS:HB3	2.35	0.62
1:C:1232:TYR:CZ	1:C:1234:THR:HB	2.33	0.62
1:E:137:GLN:HG2	1:E:173:LEU:HD13	1.80	0.62
1:K:480:CYS:HA	1:K:483:TRP:CD1	2.33	0.62
1:K:556:GLY:O	1:K:557:ARG:C	2.41	0.62
1:K:924:GLN:CB	1:K:1238:LEU:HG	2.28	0.62
1:C:597:TRP:NE1	1:C:1243:ILE:H	1.96	0.62
1:C:1008:HIS:HE1	1:C:1010:GLN:HB2	1.64	0.62
1:E:683:ILE:HB	1:E:693:HIS:HB2	1.80	0.62
1:E:922:LEU:HD11	1:E:1241:LEU:HD23	1.79	0.62
1:G:564:VAL:HG11	1:G:583:GLN:HG3	1.79	0.62
1:G:597:TRP:HE1	1:G:1243:ILE:H	1.47	0.62
1:I:597:TRP:HE1	1:I:1243:ILE:H	1.47	0.62
1:I:683:ILE:HB	1:I:693:HIS:HB2	1.81	0.62
1:K:360:ASP:C	1:K:361:TYR:CD1	2.78	0.62
1:K:1235:VAL:O	1:K:1235:VAL:HG22	1.97	0.62
1:A:566:LEU:HG	1:A:566:LEU:O	2.00	0.62
1:A:588:VAL:CG1	1:A:1248:GLU:C	2.72	0.62
1:C:461:ILE:HD13	1:C:491:MET:CG	2.27	0.62
1:E:252:LYS:HA	1:E:252:LYS:HE3	1.81	0.62
1:E:360:ASP:C	1:E:361:TYR:CD1	2.78	0.62
1:E:566:LEU:HG	1:E:566:LEU:O	2.00	0.62
1:E:1094:SER:HB3	1:E:1135:PHE:CD1	2.35	0.62
1:E:1167:PRO:HB3	1:E:1202:TRP:CE2	2.32	0.62
1:G:363:ALA:O	1:G:366:GLU:HB3	2.00	0.62
1:G:566:LEU:HG	1:G:566:LEU:O	2.00	0.62
1:G:588:VAL:CG1	1:G:1248:GLU:C	2.72	0.62
1:K:301:MET:HG3	1:K:306:LEU:CD2	2.28	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:698:HIS:CD2	1:K:702:VAL:HG22	2.35	0.62
1:K:876:ALA:CB	1:K:914:VAL:O	2.45	0.62
1:M:457:HIS:CG	1:M:493:SER:CB	2.64	0.62
1:M:1199:ILE:HD11	1:M:1232:TYR:OH	1.99	0.62
1:A:260:ILE:O	1:A:260:ILE:CG1	2.43	0.62
1:A:339:GLU:O	1:A:342:LEU:HB3	2.00	0.62
1:A:801:VAL:HA	1:A:817:ALA:HB2	1.81	0.62
1:A:1182:ASP:HB3	1:A:1223:ILE:CG2	2.30	0.62
1:C:801:VAL:HA	1:C:817:ALA:HB2	1.81	0.62
1:C:1132:CYS:O	1:C:1145:GLY:N	2.32	0.62
1:C:1182:ASP:HB3	1:C:1223:ILE:CG2	2.30	0.62
1:E:597:TRP:HH2	1:E:603:ILE:CG1	2.10	0.62
1:G:1225:VAL:HG11	1:G:1229:PHE:CZ	2.34	0.62
1:I:339:GLU:O	1:I:342:LEU:HB3	2.00	0.62
1:I:666:SER:HB3	1:I:671:PHE:HB2	1.80	0.62
1:K:1225:VAL:HG11	1:K:1229:PHE:CD1	2.35	0.62
1:M:360:ASP:C	1:M:361:TYR:CD1	2.78	0.62
1:M:565:GLN:HE22	1:M:568:LEU:HD11	1.65	0.62
1:C:566:LEU:O	1:C:566:LEU:HG	2.00	0.62
1:C:597:TRP:CZ3	1:C:600:LYS:HB3	2.35	0.62
1:C:1094:SER:HB3	1:C:1135:PHE:CD1	2.35	0.62
1:C:1130:VAL:HG11	1:C:1144:THR:HB	1.82	0.62
1:E:565:GLN:HE22	1:E:568:LEU:HD11	1.65	0.62
1:E:1130:VAL:HG11	1:E:1144:THR:HB	1.82	0.62
1:G:928:VAL:CG1	1:G:937:VAL:HA	2.28	0.62
1:I:767:LEU:HD21	1:I:815:VAL:HG11	1.82	0.62
1:I:1008:HIS:HE1	1:I:1010:GLN:HB2	1.64	0.62
1:K:155:MET:CE	1:K:441:GLN:HE21	2.12	0.62
1:K:1008:HIS:HE1	1:K:1010:GLN:HB2	1.64	0.62
1:M:334:PHE:HB2	1:M:337:ARG:CD	2.29	0.62
1:M:363:ALA:O	1:M:366:GLU:HB3	2.00	0.62
1:M:999:ARG:CD	1:M:1030:TRP:NE1	2.59	0.62
1:A:698:HIS:CD2	1:A:702:VAL:HG22	2.35	0.62
1:A:999:ARG:CD	1:A:1030:TRP:NE1	2.59	0.62
1:C:339:GLU:O	1:C:342:LEU:HB3	2.00	0.62
1:C:683:ILE:HB	1:C:693:HIS:HB2	1.80	0.62
1:C:1220:LEU:HG	1:C:1236:ASP:CG	2.25	0.62
1:E:363:ALA:O	1:E:366:GLU:HB3	2.00	0.62
1:E:588:VAL:CG1	1:E:1248:GLU:C	2.72	0.62
1:E:698:HIS:CD2	1:E:702:VAL:HG22	2.35	0.62
1:E:1199:ILE:HD11	1:E:1232:TYR:OH	1.99	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1220:LEU:HG	1:E:1236:ASP:CG	2.25	0.62
1:G:480:CYS:HA	1:G:483:TRP:CD1	2.33	0.62
1:I:360:ASP:C	1:I:361:TYR:CD1	2.78	0.62
1:K:260:ILE:CG1	1:K:260:ILE:O	2.43	0.62
1:K:1182:ASP:HB3	1:K:1223:ILE:CG2	2.30	0.62
1:M:252:LYS:HA	1:M:252:LYS:CE	2.30	0.62
1:M:595:LEU:CG	1:M:1201:TRP:HH2	2.13	0.62
1:A:360:ASP:C	1:A:361:TYR:CD1	2.78	0.62
1:C:902:ASP:CB	2:D:72:LYS:HZ2	2.13	0.62
1:C:1199:ILE:HD11	1:C:1232:TYR:OH	1.99	0.62
1:E:155:MET:CE	1:E:441:GLN:HE21	2.12	0.62
1:G:339:GLU:O	1:G:342:LEU:HB3	2.00	0.62
1:G:684:TRP:HA	1:G:691:LEU:HA	1.81	0.62
1:G:698:HIS:CD2	1:G:702:VAL:HG22	2.35	0.62
1:G:1094:SER:HB3	1:G:1135:PHE:CD1	2.35	0.62
1:I:862:TYR:N	1:I:884:TRP:HD1	1.92	0.62
1:I:1182:ASP:HB3	1:I:1223:ILE:CG2	2.30	0.62
1:I:1225:VAL:HG11	1:I:1229:PHE:CD1	2.35	0.62
1:K:339:GLU:O	1:K:342:LEU:HB3	2.00	0.62
1:K:588:VAL:CG1	1:K:1248:GLU:C	2.72	0.62
1:K:1220:LEU:HG	1:K:1236:ASP:CG	2.25	0.62
1:M:453:LEU:HD11	1:M:454:GLN:NE2	2.00	0.62
1:M:528:GLU:HG3	1:M:529:TYR:N	2.15	0.62
1:M:566:LEU:HG	1:M:566:LEU:O	2.00	0.62
1:A:1199:ILE:HD11	1:A:1232:TYR:OH	1.99	0.61
1:C:767:LEU:HD21	1:C:815:VAL:HG11	1.82	0.61
1:G:1130:VAL:HG11	1:G:1144:THR:HB	1.82	0.61
1:I:1094:SER:HB3	1:I:1135:PHE:CD1	2.35	0.61
1:I:1220:LEU:HG	1:I:1236:ASP:CG	2.25	0.61
1:K:1094:SER:HB3	1:K:1135:PHE:CD1	2.35	0.61
1:M:179:PRO:HD3	1:M:237:ARG:NH1	2.15	0.61
1:M:597:TRP:CZ3	1:M:600:LYS:HB3	2.35	0.61
1:M:684:TRP:HA	1:M:691:LEU:HA	1.81	0.61
1:A:308:GLU:HA	1:A:308:GLU:OE2	2.00	0.61
1:A:666:SER:HB3	1:A:671:PHE:HB2	1.80	0.61
1:C:1089:LEU:HB2	1:C:1105:ALA:HA	1.83	0.61
1:E:999:ARG:CD	1:E:1030:TRP:CD1	2.76	0.61
1:E:1182:ASP:HB3	1:E:1223:ILE:CG2	2.30	0.61
1:I:480:CYS:HA	1:I:483:TRP:CD1	2.33	0.61
1:I:588:VAL:CG1	1:I:1248:GLU:C	2.72	0.61
1:I:597:TRP:HH2	1:I:603:ILE:CG1	2.10	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:666:SER:OG	1:I:670:ARG:N	2.34	0.61
1:I:1089:LEU:HB2	1:I:1105:ALA:HA	1.82	0.61
1:K:597:TRP:HE1	1:K:1243:ILE:H	1.47	0.61
1:K:666:SER:OG	1:K:670:ARG:N	2.34	0.61
1:M:1182:ASP:HB3	1:M:1223:ILE:CG2	2.30	0.61
1:A:252:LYS:HA	1:A:252:LYS:CE	2.30	0.61
1:A:334:PHE:HB2	1:A:337:ARG:CD	2.29	0.61
1:A:1225:VAL:HG11	1:A:1229:PHE:CZ	2.34	0.61
1:C:922:LEU:HD11	1:C:1241:LEU:HD23	1.78	0.61
1:C:1199:ILE:CD1	1:C:1232:TYR:CE2	2.77	0.61
1:E:146:GLU:HB3	1:E:147:PRO:HD2	1.80	0.61
1:E:480:CYS:HA	1:E:483:TRP:CD1	2.33	0.61
1:E:529:TYR:HA	1:E:532:ILE:CG2	2.30	0.61
1:E:1089:LEU:HB2	1:E:1105:ALA:HA	1.82	0.61
1:G:529:TYR:HA	1:G:532:ILE:CG2	2.30	0.61
1:G:666:SER:HB3	1:G:671:PHE:HB2	1.80	0.61
1:G:922:LEU:HD11	1:G:1241:LEU:HD23	1.78	0.61
1:I:252:LYS:HA	1:I:252:LYS:CE	2.30	0.61
1:I:611:VAL:HG12	1:I:613:PRO:HD3	1.83	0.61
1:K:252:LYS:HA	1:K:252:LYS:CE	2.30	0.61
1:K:558:GLN:CB	1:K:559:PRO:CD	2.78	0.61
1:M:339:GLU:O	1:M:342:LEU:HB3	2.00	0.61
1:A:146:GLU:HB3	1:A:147:PRO:HD2	1.80	0.61
1:E:928:VAL:CG1	1:E:937:VAL:HA	2.28	0.61
1:E:1225:VAL:HG11	1:E:1229:PHE:CD1	2.35	0.61
1:E:1233:VAL:CG1	1:E:1243:ILE:HA	2.31	0.61
1:G:143:LEU:O	1:G:143:LEU:HD23	2.01	0.61
1:G:1182:ASP:C	1:G:1183:LEU:HD12	2.26	0.61
1:G:1182:ASP:HB3	1:G:1223:ILE:CG2	2.30	0.61
1:G:1225:VAL:HG11	1:G:1229:PHE:CD1	2.35	0.61
1:K:597:TRP:CZ3	1:K:600:LYS:HB3	2.35	0.61
1:M:308:GLU:HA	1:M:308:GLU:OE2	2.01	0.61
1:M:767:LEU:HD21	1:M:815:VAL:HG11	1.82	0.61
1:A:1130:VAL:HG11	1:A:1144:THR:HB	1.82	0.61
1:A:1132:CYS:O	1:A:1145:GLY:N	2.32	0.61
1:C:883:SER:CB	1:C:902:ASP:CB	2.79	0.61
1:C:1233:VAL:CG1	1:C:1243:ILE:HA	2.31	0.61
1:E:143:LEU:O	1:E:143:LEU:HD23	2.01	0.61
1:G:252:LYS:HA	1:G:252:LYS:CE	2.30	0.61
1:G:666:SER:OG	1:G:670:ARG:N	2.34	0.61
1:G:1089:LEU:HB2	1:G:1105:ALA:HA	1.83	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:127:VAL:N	3:I:1301:DTP:HN61	1.93	0.61
1:I:558:GLN:CB	1:I:559:PRO:CD	2.78	0.61
1:I:801:VAL:HA	1:I:817:ALA:HB2	1.81	0.61
1:K:529:TYR:HA	1:K:532:ILE:CG2	2.30	0.61
1:K:565:GLN:HE22	1:K:568:LEU:HD11	1.65	0.61
1:K:611:VAL:HG12	1:K:613:PRO:HD3	1.83	0.61
1:K:801:VAL:HA	1:K:817:ALA:HB2	1.81	0.61
1:M:666:SER:OG	1:M:670:ARG:N	2.34	0.61
1:A:363:ALA:O	1:A:366:GLU:HB3	2.00	0.61
1:A:544:PHE:CD1	1:A:576:VAL:HG11	2.36	0.61
1:C:360:ASP:C	1:C:361:TYR:CD1	2.78	0.61
1:C:698:HIS:CD2	1:C:702:VAL:HG22	2.35	0.61
1:C:928:VAL:CG1	1:C:937:VAL:HA	2.28	0.61
1:G:558:GLN:CB	1:G:559:PRO:CD	2.78	0.61
1:G:611:VAL:HG12	1:G:613:PRO:HD3	1.83	0.61
1:G:767:LEU:HD21	1:G:815:VAL:HG11	1.82	0.61
1:G:1220:LEU:HG	1:G:1236:ASP:CG	2.25	0.61
1:I:155:MET:CE	1:I:441:GLN:HE21	2.12	0.61
1:I:363:ALA:O	1:I:366:GLU:HB3	2.00	0.61
1:I:684:TRP:HA	1:I:691:LEU:HA	1.81	0.61
1:K:149:TRP:CZ3	1:K:251:LEU:HD22	2.36	0.61
1:K:528:GLU:HG3	1:K:529:TYR:N	2.15	0.61
1:M:174:LEU:HD23	1:M:175:GLU:CA	2.31	0.61
1:M:999:ARG:CD	1:M:1030:TRP:CD1	2.76	0.61
1:A:174:LEU:HD23	1:A:175:GLU:CA	2.31	0.61
1:A:597:TRP:HE1	1:A:1243:ILE:H	1.47	0.61
1:A:883:SER:CB	1:A:902:ASP:CB	2.79	0.61
1:A:1089:LEU:HB2	1:A:1105:ALA:HA	1.83	0.61
1:A:1233:VAL:CG1	1:A:1243:ILE:HA	2.31	0.61
1:C:143:LEU:HD23	1:C:143:LEU:O	2.01	0.61
1:C:146:GLU:HB3	1:C:147:PRO:HD2	1.80	0.61
1:C:1225:VAL:HG11	1:C:1229:PHE:CD1	2.35	0.61
1:G:1233:VAL:CG1	1:G:1243:ILE:HA	2.31	0.61
1:I:924:GLN:CB	1:I:1238:LEU:HG	2.28	0.61
1:I:1235:VAL:O	1:I:1235:VAL:CG2	2.49	0.61
1:K:363:ALA:O	1:K:366:GLU:HB3	2.00	0.61
1:M:1094:SER:HB3	1:M:1135:PHE:CD1	2.35	0.61
1:A:149:TRP:CZ3	1:A:251:LEU:HD22	2.36	0.61
1:A:529:TYR:HA	1:A:532:ILE:CG2	2.30	0.61
1:C:174:LEU:HD23	1:C:175:GLU:CA	2.31	0.61
1:C:334:PHE:HB2	1:C:337:ARG:CG	2.31	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:984:ALA:CA	1:C:999:ARG:O	2.47	0.61
1:C:1182:ASP:C	1:C:1183:LEU:HD12	2.26	0.61
1:E:684:TRP:HA	1:E:691:LEU:HA	1.81	0.61
1:G:149:TRP:CZ3	1:G:251:LEU:HD22	2.36	0.61
1:I:529:TYR:HA	1:I:532:ILE:CG2	2.30	0.61
1:I:1167:PRO:HB3	1:I:1202:TRP:CE2	2.32	0.61
1:K:559:PRO:O	1:K:561:PRO:HD3	2.01	0.61
1:K:683:ILE:HB	1:K:693:HIS:HB2	1.80	0.61
1:K:684:TRP:HA	1:K:691:LEU:HA	1.81	0.61
1:K:1089:LEU:HB2	1:K:1105:ALA:HA	1.82	0.61
1:K:1182:ASP:C	1:K:1183:LEU:HD12	2.26	0.61
1:M:155:MET:CE	1:M:441:GLN:HE21	2.12	0.61
1:A:1008:HIS:HE1	1:A:1010:GLN:HB2	1.64	0.61
1:A:1225:VAL:HG11	1:A:1229:PHE:CD1	2.35	0.61
1:C:564:VAL:CG1	1:C:583:GLN:CG	2.79	0.61
1:C:1180:VAL:O	1:C:1180:VAL:HG12	2.01	0.61
1:E:564:VAL:CG1	1:E:583:GLN:CG	2.79	0.61
1:E:1180:VAL:HG12	1:E:1180:VAL:O	2.01	0.61
1:E:1208:GLU:HG3	1:E:1211:GLN:HG2	1.83	0.61
1:I:597:TRP:CZ3	1:I:600:LYS:HB3	2.35	0.61
1:I:698:HIS:CD2	1:I:702:VAL:HG22	2.35	0.61
1:K:883:SER:CB	1:K:902:ASP:CB	2.79	0.61
1:M:559:PRO:O	1:M:561:PRO:HD3	2.01	0.61
1:M:657:GLU:CB	1:M:680:LYS:HD2	2.31	0.61
1:M:801:VAL:HA	1:M:817:ALA:HB2	1.81	0.61
1:A:143:LEU:HD23	1:A:143:LEU:O	2.01	0.61
1:A:1094:SER:HB3	1:A:1135:PHE:CD1	2.35	0.61
1:C:252:LYS:HA	1:C:252:LYS:CE	2.30	0.61
1:C:308:GLU:HA	1:C:308:GLU:OE2	2.00	0.61
1:C:507:LEU:HD21	1:C:544:PHE:CZ	2.36	0.61
1:E:149:TRP:CZ3	1:E:251:LEU:HD22	2.36	0.61
1:E:339:GLU:O	1:E:342:LEU:HB3	2.00	0.61
1:E:597:TRP:HE1	1:E:1243:ILE:H	1.47	0.61
1:E:1182:ASP:C	1:E:1183:LEU:HD12	2.26	0.61
1:G:597:TRP:CZ3	1:G:600:LYS:HB3	2.35	0.61
1:G:801:VAL:HA	1:G:817:ALA:HB2	1.81	0.61
1:I:566:LEU:HG	1:I:566:LEU:O	2.00	0.61
1:I:1130:VAL:HG11	1:I:1144:THR:HB	1.82	0.61
1:K:143:LEU:O	1:K:143:LEU:HD23	2.01	0.61
1:M:698:HIS:CD2	1:M:702:VAL:HG22	2.35	0.61
1:M:1225:VAL:HG11	1:M:1229:PHE:CD1	2.35	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:1235:VAL:O	1:M:1235:VAL:CG2	2.49	0.61
1:A:559:PRO:O	1:A:561:PRO:HD3	2.01	0.60
1:A:1182:ASP:C	1:A:1183:LEU:HD12	2.26	0.60
1:E:334:PHE:HB2	1:E:337:ARG:CG	2.31	0.60
1:E:597:TRP:CZ3	1:E:600:LYS:HB3	2.35	0.60
1:E:611:VAL:HG12	1:E:613:PRO:HD3	1.83	0.60
1:G:1208:GLU:HG3	1:G:1211:GLN:HG2	1.83	0.60
1:M:143:LEU:O	1:M:143:LEU:HD23	2.01	0.60
1:M:636:ASP:C	1:M:637:LYS:CG	2.74	0.60
1:M:1089:LEU:HB2	1:M:1105:ALA:HA	1.82	0.60
1:M:1233:VAL:CG1	1:M:1243:ILE:HA	2.31	0.60
1:A:332:ARG:HH11	1:A:332:ARG:CG	2.14	0.60
1:A:528:GLU:HG3	1:A:529:TYR:N	2.15	0.60
1:A:767:LEU:HD21	1:A:815:VAL:HG11	1.82	0.60
1:C:561:PRO:HB3	1:C:1214:TYR:HD2	1.60	0.60
1:E:1235:VAL:O	1:E:1235:VAL:CG2	2.49	0.60
1:G:565:GLN:HE22	1:G:568:LEU:HD11	1.64	0.60
1:G:595:LEU:CG	1:G:1201:TRP:HH2	2.13	0.60
1:G:821:ILE:HB	1:G:835:ILE:HB	1.83	0.60
1:G:924:GLN:CB	1:G:1238:LEU:HG	2.28	0.60
1:I:1182:ASP:C	1:I:1183:LEU:HD12	2.26	0.60
1:K:179:PRO:HD3	1:K:237:ARG:NH1	2.15	0.60
1:K:308:GLU:HA	1:K:308:GLU:OE2	2.01	0.60
1:M:149:TRP:CZ3	1:M:251:LEU:HD22	2.36	0.60
1:A:657:GLU:CB	1:A:680:LYS:HD2	2.31	0.60
1:A:1067:VAL:HB	1:A:1081:PHE:HB2	1.84	0.60
1:A:1220:LEU:HG	1:A:1236:ASP:CG	2.25	0.60
1:E:252:LYS:HA	1:E:252:LYS:CE	2.30	0.60
1:E:801:VAL:HA	1:E:817:ALA:HB2	1.81	0.60
1:E:821:ILE:HB	1:E:835:ILE:HB	1.84	0.60
1:E:924:GLN:CB	1:E:1238:LEU:HG	2.28	0.60
1:E:1008:HIS:HE1	1:E:1010:GLN:HB2	1.64	0.60
1:G:1235:VAL:O	1:G:1235:VAL:CG2	2.49	0.60
1:I:149:TRP:CZ3	1:I:251:LEU:HD22	2.36	0.60
1:I:174:LEU:HD23	1:I:175:GLU:CA	2.31	0.60
1:I:453:LEU:HD11	1:I:454:GLN:NE2	2.00	0.60
1:I:559:PRO:O	1:I:561:PRO:HD3	2.01	0.60
1:I:635:ALA:O	1:I:637:LYS:HG3	2.02	0.60
1:I:657:GLU:CB	1:I:680:LYS:HD2	2.31	0.60
1:I:1233:VAL:CG1	1:I:1243:ILE:HA	2.31	0.60
1:K:595:LEU:CG	1:K:1201:TRP:HH2	2.13	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:999:ARG:CD	1:K:1030:TRP:CD1	2.76	0.60
1:M:334:PHE:HB2	1:M:337:ARG:CG	2.31	0.60
1:M:883:SER:CB	1:M:902:ASP:CB	2.79	0.60
1:M:1220:LEU:HG	1:M:1236:ASP:CG	2.25	0.60
1:A:334:PHE:HB2	1:A:337:ARG:CG	2.31	0.60
1:C:212:PHE:HE2	1:C:230:LEU:CD2	2.14	0.60
1:E:332:ARG:HH11	1:E:332:ARG:CG	2.14	0.60
1:E:507:LEU:HD21	1:E:544:PHE:CZ	2.36	0.60
1:G:332:ARG:HH11	1:G:332:ARG:CG	2.14	0.60
1:G:1167:PRO:HB3	1:G:1202:TRP:CE2	2.32	0.60
1:G:1180:VAL:O	1:G:1180:VAL:HG12	2.01	0.60
1:I:564:VAL:CG1	1:I:583:GLN:CG	2.79	0.60
1:I:939:ALA:HB3	1:I:947:GLN:O	2.02	0.60
1:I:1185:PHE:CZ	1:I:1192:LEU:HD11	2.35	0.60
1:K:1130:VAL:HG11	1:K:1144:THR:HB	1.82	0.60
1:M:678:ASP:OD2	1:M:680:LYS:CE	2.46	0.60
1:M:1067:VAL:HB	1:M:1081:PHE:HB2	1.84	0.60
1:A:595:LEU:CG	1:A:1201:TRP:HH2	2.14	0.60
1:C:1208:GLU:HG3	1:C:1211:GLN:HG2	1.83	0.60
1:C:1235:VAL:O	1:C:1235:VAL:CG2	2.49	0.60
1:E:666:SER:OG	1:E:670:ARG:N	2.34	0.60
1:E:1143:ALA:CB	1:E:1183:LEU:CD2	2.80	0.60
1:I:528:GLU:HG3	1:I:529:TYR:N	2.15	0.60
1:I:902:ASP:CB	2:J:72:LYS:HZ2	2.13	0.60
1:K:564:VAL:CG1	1:K:583:GLN:CG	2.79	0.60
1:M:529:TYR:HA	1:M:532:ILE:CG2	2.30	0.60
1:M:1208:GLU:HG3	1:M:1211:GLN:HG2	1.83	0.60
1:A:564:VAL:CG1	1:A:583:GLN:CG	2.79	0.60
1:A:666:SER:OG	1:A:670:ARG:N	2.34	0.60
1:A:1180:VAL:O	1:A:1180:VAL:HG12	2.01	0.60
1:C:122:ARG:CZ	1:C:126:PHE:CE2	2.85	0.60
1:C:332:ARG:HH11	1:C:332:ARG:CG	2.14	0.60
1:C:528:GLU:HG3	1:C:529:TYR:N	2.15	0.60
1:E:174:LEU:HD23	1:E:175:GLU:CA	2.31	0.60
1:E:657:GLU:CB	1:E:680:LYS:HD2	2.31	0.60
1:G:716:LEU:HB2	1:G:730:LEU:HD21	1.84	0.60
1:I:821:ILE:HB	1:I:835:ILE:HB	1.83	0.60
1:K:334:PHE:HB2	1:K:337:ARG:CG	2.31	0.60
1:K:566:LEU:O	1:K:566:LEU:HG	2.00	0.60
1:K:864:VAL:CG2	1:K:885:VAL:HG11	2.32	0.60
1:K:879:ARG:HB3	1:K:921:MET:SD	2.42	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:107:THR:HB	1:M:110:VAL:HG23	1.83	0.60
1:M:611:VAL:HG12	1:M:613:PRO:HD3	1.83	0.60
1:M:1130:VAL:HG11	1:M:1144:THR:HB	1.82	0.60
1:M:1182:ASP:C	1:M:1183:LEU:HD12	2.26	0.60
1:A:507:LEU:HD21	1:A:544:PHE:CZ	2.36	0.60
1:A:864:VAL:CG2	1:A:885:VAL:HG11	2.32	0.60
1:A:939:ALA:HB3	1:A:947:GLN:O	2.02	0.60
1:C:363:ALA:O	1:C:366:GLU:HB3	2.00	0.60
1:C:821:ILE:HB	1:C:835:ILE:HB	1.84	0.60
1:C:924:GLN:CB	1:C:1238:LEU:HG	2.28	0.60
1:E:635:ALA:O	1:E:637:LYS:HG3	2.02	0.60
1:E:884:TRP:O	1:E:885:VAL:O	2.20	0.60
1:G:265:ARG:NH1	3:G:1301:DTP:O1G	2.35	0.60
1:G:285:SER:OG	1:G:286:LEU:N	2.34	0.60
1:G:507:LEU:HD21	1:G:544:PHE:CZ	2.36	0.60
1:G:528:GLU:HG3	1:G:529:TYR:N	2.15	0.60
1:G:883:SER:CB	1:G:902:ASP:CB	2.79	0.60
1:G:1185:PHE:CZ	1:G:1192:LEU:HD11	2.35	0.60
1:I:507:LEU:HD21	1:I:544:PHE:CZ	2.36	0.60
1:I:716:LEU:HB2	1:I:730:LEU:HD21	1.84	0.60
1:K:174:LEU:HD23	1:K:175:GLU:CA	2.31	0.60
1:K:265:ARG:NH1	3:K:1301:DTP:O1G	2.35	0.60
1:M:127:VAL:N	3:M:1301:DTP:HN61	1.93	0.60
1:M:716:LEU:HB2	1:M:730:LEU:HD21	1.84	0.60
1:A:285:SER:OG	1:A:286:LEU:N	2.35	0.60
1:A:635:ALA:O	1:A:637:LYS:HG3	2.02	0.60
1:A:1237:ASN:O	1:A:1238:LEU:HB2	2.02	0.60
1:C:529:TYR:HA	1:C:532:ILE:CG2	2.30	0.60
1:C:559:PRO:O	1:C:561:PRO:HD3	2.01	0.60
1:C:939:ALA:HB3	1:C:947:GLN:O	2.02	0.60
1:C:1067:VAL:HB	1:C:1081:PHE:HB2	1.84	0.60
1:C:1143:ALA:CB	1:C:1183:LEU:CD2	2.80	0.60
1:E:212:PHE:HE2	1:E:230:LEU:CD2	2.14	0.60
1:G:122:ARG:CZ	1:G:126:PHE:CE2	2.85	0.60
1:G:564:VAL:CG1	1:G:583:GLN:CG	2.79	0.60
1:G:884:TRP:O	1:G:885:VAL:O	2.20	0.60
1:G:1143:ALA:CB	1:G:1183:LEU:CD2	2.80	0.60
1:I:212:PHE:HE2	1:I:230:LEU:CD2	2.14	0.60
1:I:265:ARG:NH1	3:I:1301:DTP:O1G	2.35	0.60
1:I:595:LEU:CG	1:I:1201:TRP:HH2	2.13	0.60
1:I:879:ARG:HB3	1:I:921:MET:SD	2.42	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:883:SER:CB	1:I:902:ASP:CB	2.79	0.60
1:I:1208:GLU:HG3	1:I:1211:GLN:HG2	1.83	0.60
1:I:1237:ASN:O	1:I:1238:LEU:HB2	2.02	0.60
1:K:657:GLU:CB	1:K:680:LYS:HD2	2.31	0.60
1:K:862:TYR:CE1	1:K:885:VAL:HG12	2.21	0.60
1:K:1233:VAL:CG1	1:K:1243:ILE:HA	2.31	0.60
1:M:507:LEU:HD21	1:M:544:PHE:CZ	2.36	0.60
1:M:564:VAL:CG1	1:M:583:GLN:CG	2.79	0.60
1:A:636:ASP:C	1:A:637:LYS:CG	2.74	0.60
1:A:879:ARG:HB3	1:A:921:MET:SD	2.42	0.60
1:C:149:TRP:CZ3	1:C:251:LEU:HD22	2.36	0.60
1:C:611:VAL:HG12	1:C:613:PRO:HD3	1.83	0.60
1:C:636:ASP:C	1:C:637:LYS:CG	2.74	0.60
1:C:864:VAL:CG2	1:C:885:VAL:HG11	2.32	0.60
1:C:879:ARG:HB3	1:C:921:MET:SD	2.42	0.60
1:K:332:ARG:HH11	1:K:332:ARG:CG	2.14	0.60
1:K:427:ASP:OD2	1:K:434:ARG:HG3	2.02	0.60
1:K:879:ARG:HB3	1:K:921:MET:HE1	1.81	0.60
1:K:1208:GLU:HG3	1:K:1211:GLN:HG2	1.83	0.60
1:M:635:ALA:O	1:M:637:LYS:HG3	2.02	0.60
1:M:939:ALA:HB3	1:M:947:GLN:O	2.02	0.60
1:A:265:ARG:NH1	3:A:1301:DTP:O1G	2.35	0.60
1:C:635:ALA:O	1:C:637:LYS:HG3	2.01	0.60
5:F:201:HEM:CBC	5:F:201:HEM:HMC1	2.28	0.60
1:G:174:LEU:HD23	1:G:175:GLU:CA	2.31	0.60
1:G:334:PHE:HB2	1:G:337:ARG:CG	2.31	0.60
1:I:143:LEU:HD23	1:I:143:LEU:C	2.27	0.60
1:I:849:SER:HB3	1:I:854:LEU:HB2	1.84	0.60
1:I:864:VAL:CG2	1:I:885:VAL:HG11	2.32	0.60
1:I:999:ARG:HG2	1:I:1030:TRP:CD2	2.37	0.60
1:K:285:SER:OG	1:K:286:LEU:N	2.34	0.60
1:K:716:LEU:HB2	1:K:730:LEU:HD21	1.84	0.60
1:M:212:PHE:HE2	1:M:230:LEU:CD2	2.14	0.60
1:M:884:TRP:O	1:M:885:VAL:O	2.20	0.60
1:A:884:TRP:O	1:A:885:VAL:O	2.19	0.59
1:C:143:LEU:HD23	1:C:143:LEU:C	2.27	0.59
1:C:265:ARG:NH1	3:C:1301:DTP:O1G	2.35	0.59
1:E:999:ARG:HG2	1:E:1030:TRP:CD2	2.37	0.59
1:G:143:LEU:HD23	1:G:143:LEU:C	2.27	0.59
1:G:427:ASP:OD2	1:G:434:ARG:HG3	2.02	0.59
1:G:559:PRO:O	1:G:561:PRO:HD3	2.01	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:143:LEU:HD23	1:I:143:LEU:O	2.01	0.59
1:K:107:THR:HB	1:K:110:VAL:HG23	1.84	0.59
1:M:122:ARG:CZ	1:M:126:PHE:CE2	2.85	0.59
1:A:107:THR:HB	1:A:110:VAL:HG23	1.84	0.59
1:A:1208:GLU:HG3	1:A:1211:GLN:HG2	1.83	0.59
1:C:595:LEU:CG	1:C:1201:TRP:HH2	2.13	0.59
1:E:146:GLU:CG	1:G:111:ARG:HH11	2.15	0.59
1:E:559:PRO:O	1:E:561:PRO:HD3	2.01	0.59
1:E:861:GLN:CA	1:E:884:TRP:HD1	2.15	0.59
1:G:636:ASP:C	1:G:637:LYS:CG	2.74	0.59
1:G:864:VAL:CG2	1:G:885:VAL:HG11	2.32	0.59
1:G:939:ALA:HB3	1:G:947:GLN:O	2.02	0.59
1:I:565:GLN:HE22	1:I:568:LEU:HD11	1.64	0.59
1:K:507:LEU:HD21	1:K:544:PHE:CZ	2.37	0.59
1:K:1067:VAL:HB	1:K:1081:PHE:HB2	1.84	0.59
1:K:1185:PHE:O	1:K:1229:PHE:HZ	1.78	0.59
1:K:1235:VAL:O	1:K:1235:VAL:CG2	2.49	0.59
1:M:136:ILE:O	1:M:140:LEU:N	2.33	0.59
1:M:265:ARG:NH1	3:M:1301:DTP:O1G	2.35	0.59
1:M:849:SER:HB3	1:M:854:LEU:HB2	1.84	0.59
1:A:147:PRO:HG3	1:C:121:GLN:NE2	2.18	0.59
1:A:611:VAL:HG12	1:A:613:PRO:HD3	1.83	0.59
1:A:821:ILE:HB	1:A:835:ILE:HB	1.84	0.59
1:A:876:ALA:CB	1:A:914:VAL:O	2.45	0.59
1:E:285:SER:OG	1:E:286:LEU:N	2.34	0.59
1:E:716:LEU:HB2	1:E:730:LEU:HD21	1.84	0.59
1:E:883:SER:CB	1:E:902:ASP:CB	2.79	0.59
1:G:147:PRO:HG3	1:I:121:GLN:NE2	2.18	0.59
1:G:266:ASP:HB2	1:G:269:VAL:HG23	1.85	0.59
1:G:657:GLU:CB	1:G:680:LYS:HD2	2.31	0.59
1:G:849:SER:HB3	1:G:854:LEU:HB2	1.84	0.59
1:G:861:GLN:CA	1:G:884:TRP:HD1	2.15	0.59
1:I:332:ARG:HH11	1:I:332:ARG:CG	2.14	0.59
1:I:861:GLN:CA	1:I:884:TRP:HD1	2.15	0.59
1:K:212:PHE:CE2	1:K:230:LEU:CD2	2.85	0.59
1:K:678:ASP:OD2	1:K:680:LYS:CE	2.46	0.59
1:K:939:ALA:HB3	1:K:947:GLN:O	2.02	0.59
1:K:1185:PHE:CZ	1:K:1192:LEU:HD11	2.35	0.59
1:M:266:ASP:HB2	1:M:269:VAL:HG23	1.85	0.59
1:A:716:LEU:HB2	1:A:730:LEU:HD21	1.84	0.59
1:C:657:GLU:CB	1:C:680:LYS:HD2	2.31	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:861:GLN:CA	1:C:884:TRP:HD1	2.15	0.59
1:C:876:ALA:CB	1:C:914:VAL:O	2.45	0.59
1:E:427:ASP:OD2	1:E:434:ARG:HG3	2.02	0.59
1:E:879:ARG:HB3	1:E:921:MET:SD	2.42	0.59
1:E:1185:PHE:HE1	1:E:1192:LEU:HD12	1.53	0.59
1:G:879:ARG:HB3	1:G:921:MET:SD	2.42	0.59
1:I:146:GLU:HG2	1:K:111:ARG:HH11	1.68	0.59
1:I:266:ASP:HB2	1:I:269:VAL:HG23	1.85	0.59
1:I:334:PHE:HB2	1:I:337:ARG:CG	2.31	0.59
1:I:1185:PHE:HE1	1:I:1192:LEU:HD12	1.53	0.59
1:K:146:GLU:HG2	1:M:111:ARG:HH11	1.68	0.59
1:K:147:PRO:HG3	1:M:121:GLN:NE2	2.18	0.59
1:K:266:ASP:HB2	1:K:269:VAL:HG23	1.85	0.59
1:K:345:LEU:HD11	1:K:353:ILE:HD13	1.85	0.59
1:K:635:ALA:O	1:K:637:LYS:HG3	2.02	0.59
1:K:884:TRP:O	1:K:885:VAL:O	2.20	0.59
1:K:1143:ALA:CB	1:K:1183:LEU:CD2	2.80	0.59
1:M:1237:ASN:O	1:M:1238:LEU:HB2	2.02	0.59
1:A:121:GLN:NE2	1:M:147:PRO:HG3	2.18	0.59
1:A:553:HIS:CD2	1:A:554:LEU:HB2	2.38	0.59
1:A:924:GLN:CB	1:A:1238:LEU:HG	2.28	0.59
1:C:543:ASN:CG	1:C:574:SER:CB	2.76	0.59
2:D:103:ASN:O	2:D:104:GLU:C	2.46	0.59
1:G:1237:ASN:O	1:G:1238:LEU:HB2	2.02	0.59
1:I:107:THR:HB	1:I:110:VAL:HG23	1.83	0.59
1:I:345:LEU:HD11	1:I:353:ILE:HD13	1.85	0.59
1:I:678:ASP:OD2	1:I:680:LYS:CE	2.46	0.59
1:I:884:TRP:O	1:I:885:VAL:O	2.20	0.59
1:I:1143:ALA:CB	1:I:1183:LEU:CD2	2.80	0.59
1:K:122:ARG:CZ	1:K:126:PHE:CE2	2.85	0.59
1:K:143:LEU:HD23	1:K:143:LEU:C	2.27	0.59
1:M:864:VAL:CG2	1:M:885:VAL:HG11	2.32	0.59
1:M:879:ARG:HB3	1:M:921:MET:SD	2.42	0.59
1:A:111:ARG:HH11	1:M:146:GLU:HG2	1.68	0.59
1:A:143:LEU:HD23	1:A:143:LEU:C	2.27	0.59
1:A:212:PHE:HE2	1:A:230:LEU:CD2	2.14	0.59
1:C:333:ASP:CB	1:C:334:PHE:CE1	2.85	0.59
1:E:939:ALA:HB3	1:E:947:GLN:O	2.02	0.59
1:E:1067:VAL:HB	1:E:1081:PHE:HB2	1.84	0.59
1:G:544:PHE:HE1	1:G:576:VAL:CG1	1.88	0.59
1:G:984:ALA:CA	1:G:999:ARG:O	2.47	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:212:PHE:CE2	1:I:230:LEU:CD2	2.86	0.59
1:I:390:GLN:HB3	1:I:393:VAL:HG13	1.85	0.59
1:K:861:GLN:CA	1:K:884:TRP:HD1	2.15	0.59
1:M:143:LEU:HD23	1:M:143:LEU:C	2.27	0.59
1:M:317:CYS:SG	1:M:324:VAL:HG23	2.43	0.59
1:M:543:ASN:CG	1:M:574:SER:CB	2.76	0.59
1:M:658:ASP:OD2	1:M:677:VAL:CG1	2.51	0.59
1:A:266:ASP:HB2	1:A:269:VAL:HG23	1.85	0.59
1:A:317:CYS:SG	1:A:324:VAL:HG23	2.43	0.59
1:C:146:GLU:CG	1:E:111:ARG:HH11	2.15	0.59
1:C:716:LEU:HB2	1:C:730:LEU:HD21	1.84	0.59
1:C:884:TRP:O	1:C:885:VAL:O	2.19	0.59
1:E:179:PRO:HD3	1:E:237:ARG:NH1	2.15	0.59
1:E:266:ASP:HB2	1:E:269:VAL:HG23	1.85	0.59
1:E:345:LEU:HD11	1:E:353:ILE:HD13	1.85	0.59
1:E:543:ASN:CG	1:E:574:SER:CB	2.76	0.59
1:G:390:GLN:HB3	1:G:393:VAL:HG13	1.85	0.59
1:I:122:ARG:CZ	1:I:126:PHE:CE2	2.85	0.59
1:I:147:PRO:HG3	1:K:121:GLN:NE2	2.18	0.59
1:I:543:ASN:CG	1:I:574:SER:CB	2.76	0.59
1:I:553:HIS:CD2	1:I:554:LEU:HB2	2.38	0.59
1:I:1180:VAL:O	1:I:1180:VAL:HG12	2.01	0.59
1:I:1217:GLY:C	1:I:1218:THR:CG2	2.76	0.59
1:K:543:ASN:CG	1:K:574:SER:CB	2.76	0.59
1:K:999:ARG:HG2	1:K:1030:TRP:CD2	2.37	0.59
1:M:333:ASP:CB	1:M:334:PHE:CE1	2.85	0.59
1:M:427:ASP:OD2	1:M:434:ARG:HG3	2.02	0.59
1:A:122:ARG:CZ	1:A:126:PHE:CE2	2.85	0.59
1:A:1028:GLN:HE21	1:A:1030:TRP:HB2	1.68	0.59
1:A:1143:ALA:CB	1:A:1183:LEU:CD2	2.80	0.59
1:C:317:CYS:SG	1:C:324:VAL:HG23	2.43	0.59
1:C:553:HIS:CD2	1:C:554:LEU:HB2	2.38	0.59
1:E:265:ARG:NH1	3:E:1301:DTP:O1G	2.35	0.59
1:E:308:GLU:HA	1:E:308:GLU:OE2	2.01	0.59
1:E:317:CYS:SG	1:E:324:VAL:HG23	2.43	0.59
1:E:528:GLU:HG3	1:E:529:TYR:N	2.15	0.59
1:E:543:ASN:HB2	1:E:576:VAL:CG2	2.33	0.59
1:E:595:LEU:CG	1:E:1201:TRP:HH2	2.13	0.59
2:F:103:ASN:O	2:F:104:GLU:C	2.46	0.59
1:G:317:CYS:SG	1:G:324:VAL:HG23	2.43	0.59
1:G:678:ASP:OD2	1:G:680:LYS:CE	2.46	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:999:ARG:HG2	1:G:1030:TRP:CD2	2.37	0.59
1:I:136:ILE:O	1:I:140:LEU:N	2.33	0.59
1:I:400:LEU:HB3	1:I:404:TRP:HZ3	1.68	0.59
1:K:136:ILE:O	1:K:140:LEU:N	2.33	0.59
1:K:658:ASP:OD2	1:K:677:VAL:CG1	2.51	0.59
1:K:821:ILE:HB	1:K:835:ILE:HB	1.83	0.59
1:K:849:SER:HB3	1:K:854:LEU:HB2	1.84	0.59
1:M:212:PHE:CE2	1:M:230:LEU:CD2	2.85	0.59
1:M:813:ILE:HD12	1:M:826:ILE:HG21	1.85	0.59
1:M:1185:PHE:O	1:M:1229:PHE:HZ	1.78	0.59
1:A:111:ARG:HH11	1:M:146:GLU:CG	2.15	0.59
1:A:678:ASP:OD2	1:A:680:LYS:CE	2.46	0.59
1:A:861:GLN:CA	1:A:884:TRP:HD1	2.15	0.59
1:A:885:VAL:HG23	1:A:886:HIS:N	2.18	0.59
1:C:999:ARG:HG2	1:C:1030:TRP:CD2	2.37	0.59
1:C:1233:VAL:HG11	1:C:1243:ILE:CG1	2.28	0.59
1:C:1237:ASN:O	1:C:1238:LEU:HB2	2.02	0.59
1:E:107:THR:HB	1:E:110:VAL:HG23	1.83	0.59
1:E:122:ARG:CZ	1:E:126:PHE:CE2	2.85	0.59
1:E:251:LEU:HD12	1:E:269:VAL:HG12	1.85	0.59
1:E:864:VAL:CG2	1:E:885:VAL:HG11	2.32	0.59
1:G:146:GLU:HG2	1:I:111:ARG:HH11	1.68	0.59
1:G:345:LEU:HD11	1:G:353:ILE:HD13	1.85	0.59
1:G:658:ASP:OD2	1:G:677:VAL:CG1	2.51	0.59
1:I:658:ASP:OD2	1:I:677:VAL:CG1	2.51	0.59
1:I:885:VAL:HG23	1:I:886:HIS:N	2.18	0.59
1:I:1200:LYS:HE3	1:I:1211:GLN:CB	2.33	0.59
1:K:138:GLN:HE21	1:K:139:LYS:N	2.01	0.59
1:K:813:ILE:HD12	1:K:826:ILE:HG21	1.85	0.59
2:L:103:ASN:O	2:L:104:GLU:C	2.46	0.59
1:M:285:SER:OG	1:M:286:LEU:N	2.34	0.59
1:M:821:ILE:HB	1:M:835:ILE:HB	1.83	0.59
1:M:1217:GLY:C	1:M:1218:THR:CG2	2.76	0.59
1:A:146:GLU:HG2	1:C:111:ARG:HH11	1.68	0.59
1:A:212:PHE:CE2	1:A:230:LEU:CD2	2.86	0.59
1:A:748:HIS:HD2	1:A:804:CYS:HB2	1.68	0.59
1:C:212:PHE:HE2	1:C:230:LEU:HD23	1.67	0.59
1:C:554:LEU:HD11	1:C:1214:TYR:CZ	2.38	0.59
1:C:666:SER:OG	1:C:670:ARG:N	2.34	0.59
1:C:885:VAL:HG23	1:C:886:HIS:N	2.18	0.59
1:E:1185:PHE:CZ	1:E:1192:LEU:HD11	2.35	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:251:LEU:HD12	1:G:269:VAL:HG12	1.85	0.59
1:G:308:GLU:HA	1:G:308:GLU:OE2	2.00	0.59
1:G:543:ASN:HB2	1:G:576:VAL:CG2	2.33	0.59
1:G:635:ALA:O	1:G:637:LYS:HG3	2.02	0.59
1:I:317:CYS:SG	1:I:324:VAL:HG23	2.43	0.59
1:K:212:PHE:HE2	1:K:230:LEU:CD2	2.14	0.59
1:K:1028:GLN:HE21	1:K:1030:TRP:HB2	1.68	0.59
1:K:1237:ASN:O	1:K:1238:LEU:HB2	2.02	0.59
1:M:138:GLN:HE21	1:M:139:LYS:N	2.01	0.59
1:M:332:ARG:HH11	1:M:332:ARG:CG	2.14	0.59
1:M:1143:ALA:CB	1:M:1183:LEU:CD2	2.80	0.59
1:M:1180:VAL:O	1:M:1180:VAL:HG12	2.01	0.59
2:N:103:ASN:O	2:N:104:GLU:C	2.46	0.59
1:A:212:PHE:HE2	1:A:230:LEU:HD23	1.67	0.58
1:A:251:LEU:HD12	1:A:269:VAL:HG12	1.85	0.58
1:A:849:SER:HB3	1:A:854:LEU:HB2	1.84	0.58
1:C:147:PRO:HG3	1:E:121:GLN:NE2	2.18	0.58
1:C:212:PHE:CE2	1:C:230:LEU:CD2	2.86	0.58
1:C:251:LEU:HD12	1:C:269:VAL:HG12	1.85	0.58
1:C:345:LEU:HD11	1:C:353:ILE:HD13	1.85	0.58
1:C:748:HIS:HD2	1:C:804:CYS:HB2	1.68	0.58
1:C:879:ARG:HB3	1:C:921:MET:HE1	1.81	0.58
1:E:138:GLN:HE21	1:E:139:LYS:N	2.01	0.58
1:E:553:HIS:CD2	1:E:554:LEU:HB2	2.38	0.58
1:E:862:TYR:CE1	1:E:881:HIS:HB3	2.38	0.58
1:E:1200:LYS:HE3	1:E:1211:GLN:CB	2.33	0.58
1:G:543:ASN:CG	1:G:574:SER:CB	2.76	0.58
1:I:308:GLU:HA	1:I:308:GLU:OE2	2.01	0.58
1:I:1067:VAL:HB	1:I:1081:PHE:HB2	1.84	0.58
1:K:146:GLU:CG	1:M:111:ARG:HH11	2.15	0.58
1:K:390:GLN:HB3	1:K:393:VAL:HG13	1.85	0.58
1:M:251:LEU:HD12	1:M:269:VAL:HG12	1.85	0.58
1:M:345:LEU:HD11	1:M:353:ILE:HD13	1.85	0.58
1:M:861:GLN:CA	1:M:884:TRP:HD1	2.15	0.58
1:A:333:ASP:CB	1:A:334:PHE:CE1	2.85	0.58
1:C:136:ILE:O	1:C:140:LEU:N	2.33	0.58
1:C:146:GLU:HG2	1:E:111:ARG:HH11	1.68	0.58
1:C:543:ASN:HB2	1:C:576:VAL:CG2	2.33	0.58
2:F:103:ASN:C	2:F:104:GLU:O	2.46	0.58
1:G:212:PHE:HE2	1:G:230:LEU:CD2	2.14	0.58
1:G:885:VAL:HG23	1:G:886:HIS:N	2.18	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1067:VAL:HB	1:G:1081:PHE:HB2	1.84	0.58
1:I:882:LEU:O	1:I:882:LEU:HD23	2.04	0.58
1:K:317:CYS:SG	1:K:324:VAL:HG23	2.43	0.58
1:M:748:HIS:HD2	1:M:804:CYS:HB2	1.68	0.58
1:A:138:GLN:HE21	1:A:139:LYS:N	2.01	0.58
2:B:103:ASN:O	2:B:104:GLU:C	2.46	0.58
1:E:143:LEU:HD23	1:E:143:LEU:C	2.27	0.58
1:E:146:GLU:HG2	1:G:111:ARG:HH11	1.68	0.58
1:E:147:PRO:HG3	1:G:121:GLN:NE2	2.18	0.58
1:E:390:GLN:HB3	1:E:393:VAL:HG13	1.85	0.58
1:E:400:LEU:HB3	1:E:404:TRP:HZ3	1.68	0.58
1:E:1028:GLN:HE21	1:E:1030:TRP:HB2	1.68	0.58
1:G:107:THR:HB	1:G:110:VAL:HG23	1.84	0.58
1:G:400:LEU:HB3	1:G:404:TRP:HZ3	1.68	0.58
1:G:553:HIS:CD2	1:G:554:LEU:HB2	2.38	0.58
1:G:879:ARG:HB3	1:G:921:MET:HE1	1.81	0.58
1:I:636:ASP:C	1:I:637:LYS:CG	2.74	0.58
1:A:473:LEU:HD21	1:A:484:TYR:OH	2.03	0.58
1:A:544:PHE:CD1	1:A:576:VAL:HG22	2.39	0.58
1:C:266:ASP:HB2	1:C:269:VAL:HG23	1.85	0.58
1:E:658:ASP:OD2	1:E:677:VAL:CG1	2.51	0.58
1:E:1136:SER:HA	1:E:1185:PHE:CD2	2.39	0.58
1:E:1171:GLU:HG3	1:E:1172:GLY:N	2.06	0.58
1:I:748:HIS:HD2	1:I:804:CYS:HB2	1.68	0.58
1:I:999:ARG:CD	1:I:1030:TRP:CD1	2.76	0.58
1:K:885:VAL:HG23	1:K:886:HIS:N	2.18	0.58
1:K:1200:LYS:HE3	1:K:1211:GLN:CB	2.33	0.58
1:A:345:LEU:HD11	1:A:353:ILE:HD13	1.85	0.58
1:A:558:GLN:CB	1:A:559:PRO:CD	2.78	0.58
1:A:1027:ILE:HD11	1:A:1047:VAL:HG11	1.86	0.58
1:C:107:THR:HB	1:C:110:VAL:HG23	1.84	0.58
1:C:658:ASP:OD2	1:C:677:VAL:CG1	2.51	0.58
1:C:849:SER:HB3	1:C:854:LEU:HB2	1.84	0.58
1:C:1027:ILE:HD11	1:C:1047:VAL:HG11	1.86	0.58
1:C:1094:SER:HB3	1:C:1135:PHE:CG	2.39	0.58
1:C:1200:LYS:HE3	1:C:1211:GLN:CB	2.33	0.58
1:E:544:PHE:CD1	1:E:576:VAL:HG22	2.39	0.58
1:E:849:SER:HB3	1:E:854:LEU:HB2	1.84	0.58
1:E:1094:SER:HB3	1:E:1135:PHE:CG	2.39	0.58
1:G:138:GLN:HE21	1:G:139:LYS:N	2.01	0.58
1:G:431:LYS:HZ2	1:I:336:ASN:HB3	1.62	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:748:HIS:HD2	1:G:804:CYS:HB2	1.68	0.58
1:G:1028:GLN:HE21	1:G:1030:TRP:HB2	1.68	0.58
1:G:1217:GLY:C	1:G:1218:THR:CG2	2.76	0.58
2:H:103:ASN:C	2:H:104:GLU:O	2.46	0.58
1:I:212:PHE:HE2	1:I:230:LEU:HD23	1.67	0.58
1:I:1094:SER:HB3	1:I:1135:PHE:CG	2.39	0.58
5:J:201:HEM:CBC	5:J:201:HEM:HMC1	2.28	0.58
1:K:251:LEU:HD12	1:K:269:VAL:HG12	1.85	0.58
1:K:400:LEU:HB3	1:K:404:TRP:HZ3	1.68	0.58
1:K:553:HIS:CD2	1:K:554:LEU:HB2	2.38	0.58
1:K:1094:SER:HB3	1:K:1135:PHE:CG	2.39	0.58
1:K:1136:SER:HA	1:K:1185:PHE:CD2	2.38	0.58
1:M:885:VAL:HG23	1:M:886:HIS:N	2.18	0.58
1:A:1200:LYS:HE3	1:A:1211:GLN:CB	2.33	0.58
1:C:427:ASP:OD2	1:C:434:ARG:HG3	2.02	0.58
1:C:431:LYS:HZ2	1:E:336:ASN:HB3	1.63	0.58
1:C:473:LEU:HD21	1:C:484:TYR:OH	2.03	0.58
1:C:862:TYR:CE1	1:C:881:HIS:HB3	2.38	0.58
1:E:212:PHE:CE2	1:E:230:LEU:CD2	2.86	0.58
1:E:748:HIS:HD2	1:E:804:CYS:HB2	1.68	0.58
1:E:813:ILE:HD12	1:E:826:ILE:HG21	1.85	0.58
1:G:212:PHE:CE2	1:G:230:LEU:CD2	2.86	0.58
1:G:1136:SER:HA	1:G:1185:PHE:CD2	2.39	0.58
1:G:1200:LYS:HE3	1:G:1211:GLN:CB	2.33	0.58
1:I:251:LEU:HD12	1:I:269:VAL:HG12	1.85	0.58
1:I:1185:PHE:CD1	1:I:1192:LEU:CG	2.63	0.58
1:K:196:LEU:O	1:K:196:LEU:HD12	2.03	0.58
1:K:544:PHE:CD1	1:K:576:VAL:HG22	2.39	0.58
1:K:1233:VAL:HG11	1:K:1243:ILE:CG1	2.28	0.58
1:M:196:LEU:HD12	1:M:196:LEU:O	2.03	0.58
1:M:543:ASN:HB2	1:M:576:VAL:CG2	2.33	0.58
1:M:553:HIS:CD2	1:M:554:LEU:HB2	2.38	0.58
1:M:554:LEU:HD11	1:M:1214:TYR:CZ	2.38	0.58
1:M:984:ALA:CA	1:M:999:ARG:O	2.47	0.58
1:M:1027:ILE:HD11	1:M:1047:VAL:HG11	1.86	0.58
1:M:1028:GLN:HE21	1:M:1030:TRP:HB2	1.68	0.58
1:A:427:ASP:OD2	1:A:434:ARG:HG3	2.02	0.58
1:A:813:ILE:HD12	1:A:826:ILE:HG21	1.85	0.58
1:E:212:PHE:HE2	1:E:230:LEU:HD23	1.67	0.58
1:E:1113:SER:H	1:E:1120:LEU:HD13	1.69	0.58
1:G:189:LYS:O	1:G:190:GLN:OE1	2.22	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:544:PHE:CD1	1:G:576:VAL:HG22	2.39	0.58
1:G:554:LEU:HD11	1:G:1214:TYR:CZ	2.38	0.58
1:G:862:TYR:CE1	1:G:881:HIS:HB3	2.38	0.58
1:I:138:GLN:HE21	1:I:139:LYS:N	2.01	0.58
1:I:179:PRO:HD3	1:I:237:ARG:NH1	2.15	0.58
1:I:427:ASP:OD2	1:I:434:ARG:HG3	2.02	0.58
1:I:813:ILE:HD12	1:I:826:ILE:HG21	1.85	0.58
1:I:1136:SER:HA	1:I:1185:PHE:CD2	2.39	0.58
1:K:212:PHE:HE2	1:K:230:LEU:HD23	1.67	0.58
1:K:1180:VAL:O	1:K:1180:VAL:HG12	2.01	0.58
1:M:1200:LYS:HE3	1:M:1211:GLN:CB	2.33	0.58
1:A:122:ARG:NE	1:A:126:PHE:CZ	2.71	0.58
1:A:543:ASN:CG	1:A:574:SER:CB	2.76	0.58
1:A:554:LEU:HD11	1:A:1214:TYR:CZ	2.38	0.58
1:A:882:LEU:O	1:A:882:LEU:HD23	2.04	0.58
1:A:999:ARG:HG2	1:A:1030:TRP:CD2	2.37	0.58
1:C:882:LEU:O	1:C:882:LEU:HD23	2.04	0.58
1:C:1113:SER:H	1:C:1120:LEU:HD13	1.69	0.58
2:D:103:ASN:C	2:D:104:GLU:O	2.46	0.58
1:G:1094:SER:HB3	1:G:1135:PHE:CG	2.39	0.58
1:G:1113:SER:H	1:G:1120:LEU:HD13	1.69	0.58
1:I:122:ARG:NE	1:I:126:PHE:CZ	2.71	0.58
1:I:189:LYS:O	1:I:190:GLN:OE1	2.22	0.58
1:I:196:LEU:HD12	1:I:196:LEU:O	2.03	0.58
1:I:544:PHE:CD1	1:I:576:VAL:HG11	2.36	0.58
1:I:708:THR:HG22	1:I:710:SER:H	1.69	0.58
1:I:1028:GLN:HE21	1:I:1030:TRP:HB2	1.68	0.58
1:K:171:HIS:NE2	1:K:175:GLU:CG	2.66	0.58
1:K:1213:PHE:HE2	1:K:1215:THR:HG22	1.69	0.58
1:M:390:GLN:HB3	1:M:393:VAL:HG13	1.85	0.58
1:M:473:LEU:HD21	1:M:484:TYR:OH	2.03	0.58
1:M:882:LEU:O	1:M:882:LEU:HD23	2.03	0.58
1:M:946:LEU:HD11	1:M:959:LEU:HD12	1.86	0.58
1:M:999:ARG:HG2	1:M:1030:TRP:CD2	2.37	0.58
1:M:1094:SER:HB3	1:M:1135:PHE:CG	2.39	0.58
5:N:201:HEM:CBC	5:N:201:HEM:HMC1	2.28	0.58
1:A:543:ASN:HB2	1:A:576:VAL:CG2	2.33	0.58
1:A:1217:GLY:C	1:A:1218:THR:CG2	2.76	0.58
1:C:390:GLN:HB3	1:C:393:VAL:HG13	1.85	0.58
1:C:544:PHE:CD1	1:C:576:VAL:HG22	2.39	0.58
1:E:473:LEU:HD21	1:E:484:TYR:OH	2.03	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:903:ASP:CG	1:G:1175:THR:HB	2.29	0.58
1:I:543:ASN:HB2	1:I:576:VAL:CG2	2.33	0.58
1:I:544:PHE:CD1	1:I:576:VAL:HG22	2.39	0.58
1:I:597:TRP:CD1	1:I:1243:ILE:H	2.22	0.58
1:I:1171:GLU:HG3	1:I:1172:GLY:N	2.06	0.58
1:K:122:ARG:NE	1:K:126:PHE:CZ	2.71	0.58
1:M:231:MET:SD	1:M:258:CYS:SG	2.97	0.58
1:M:1185:PHE:CZ	1:M:1192:LEU:HD11	2.35	0.58
2:N:103:ASN:C	2:N:104:GLU:O	2.46	0.58
1:A:595:LEU:CD2	1:A:1244:LEU:CD1	2.48	0.58
1:A:708:THR:HG22	1:A:710:SER:H	1.69	0.58
1:A:921:MET:HA	1:A:1240:ILE:HG13	1.85	0.58
1:A:946:LEU:HD11	1:A:959:LEU:HD12	1.86	0.58
1:A:1235:VAL:O	1:A:1235:VAL:CG2	2.49	0.58
1:C:597:TRP:CD1	1:C:1243:ILE:H	2.22	0.58
1:C:921:MET:HA	1:C:1240:ILE:HG13	1.85	0.58
1:C:1028:GLN:HE21	1:C:1030:TRP:HB2	1.68	0.58
1:E:554:LEU:HD11	1:E:1214:TYR:CZ	2.38	0.58
1:E:639:LEU:N	1:E:653:ILE:CG2	2.63	0.58
1:E:876:ALA:CB	1:E:914:VAL:O	2.45	0.58
1:E:1027:ILE:HD11	1:E:1047:VAL:HG11	1.86	0.58
1:I:997:GLN:HG3	1:I:1033:GLN:H	1.69	0.58
1:K:636:ASP:C	1:K:637:LYS:CG	2.74	0.58
1:M:597:TRP:CD1	1:M:1243:ILE:H	2.22	0.58
1:M:1113:SER:H	1:M:1120:LEU:HD13	1.69	0.58
1:A:171:HIS:NE2	1:A:175:GLU:CG	2.66	0.57
1:A:1136:SER:HA	1:A:1185:PHE:CD2	2.38	0.57
1:C:813:ILE:HD12	1:C:826:ILE:HG21	1.85	0.57
5:D:201:HEM:CBC	5:D:201:HEM:HMC1	2.28	0.57
1:E:122:ARG:NE	1:E:126:PHE:CZ	2.71	0.57
1:E:882:LEU:O	1:E:882:LEU:HD23	2.04	0.57
1:E:997:GLN:HG3	1:E:1033:GLN:H	1.69	0.57
1:G:196:LEU:HD12	1:G:196:LEU:O	2.03	0.57
1:G:212:PHE:HE2	1:G:230:LEU:HD23	1.67	0.57
1:G:813:ILE:HD12	1:G:826:ILE:HG21	1.85	0.57
1:I:902:ASP:CB	2:J:72:LYS:NZ	2.67	0.57
1:I:1113:SER:H	1:I:1120:LEU:HD13	1.69	0.57
1:I:1213:PHE:HE2	1:I:1215:THR:HG22	1.69	0.57
2:J:103:ASN:O	2:J:104:GLU:C	2.46	0.57
1:K:554:LEU:HD11	1:K:1214:TYR:CZ	2.38	0.57
1:K:882:LEU:O	1:K:882:LEU:HD23	2.03	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:544:PHE:CD1	1:M:576:VAL:HG22	2.39	0.57
1:A:903:ASP:CG	1:A:1175:THR:HB	2.29	0.57
1:A:1113:SER:H	1:A:1120:LEU:HD13	1.69	0.57
1:A:1233:VAL:HG11	1:A:1243:ILE:CG1	2.28	0.57
1:C:122:ARG:NE	1:C:126:PHE:CZ	2.71	0.57
1:C:179:PRO:HD3	1:C:237:ARG:NH1	2.15	0.57
1:E:921:MET:HA	1:E:1240:ILE:HG13	1.85	0.57
1:E:1237:ASN:O	1:E:1238:LEU:HB2	2.02	0.57
1:I:931:GLN:O	1:I:931:GLN:HG3	2.05	0.57
1:K:189:LYS:O	1:K:190:GLN:OE1	2.22	0.57
1:K:520:ALA:HB2	1:K:647:GLY:O	2.05	0.57
1:M:122:ARG:NE	1:M:126:PHE:CZ	2.71	0.57
1:M:1136:SER:HA	1:M:1185:PHE:CD2	2.39	0.57
1:M:1233:VAL:HG12	1:M:1243:ILE:HG23	1.86	0.57
1:A:196:LEU:HD12	1:A:196:LEU:O	2.04	0.57
1:A:400:LEU:HB3	1:A:404:TRP:HZ3	1.68	0.57
1:C:138:GLN:HE21	1:C:139:LYS:N	2.01	0.57
1:C:678:ASP:OD2	1:C:680:LYS:CE	2.46	0.57
1:E:885:VAL:HG23	1:E:886:HIS:N	2.18	0.57
1:E:902:ASP:CB	2:F:72:LYS:NZ	2.67	0.57
1:I:554:LEU:HD11	1:I:1214:TYR:CZ	2.38	0.57
1:K:333:ASP:CB	1:K:334:PHE:CE1	2.85	0.57
1:K:597:TRP:CD1	1:K:1243:ILE:H	2.22	0.57
1:M:903:ASP:CG	1:M:1175:THR:HB	2.29	0.57
1:A:136:ILE:O	1:A:140:LEU:N	2.33	0.57
1:A:902:ASP:CB	2:B:72:LYS:NZ	2.67	0.57
1:A:1213:PHE:CD2	1:A:1214:TYR:N	2.73	0.57
1:G:122:ARG:NE	1:G:126:PHE:CZ	2.71	0.57
1:G:708:THR:HG22	1:G:710:SER:H	1.69	0.57
1:G:931:GLN:O	1:G:931:GLN:HG3	2.05	0.57
1:G:948:LEU:HD12	1:G:957:ASP:HB3	1.86	0.57
1:G:1181:THR:HG22	1:G:1182:ASP:HB2	1.86	0.57
1:G:1213:PHE:CD2	1:G:1214:TYR:N	2.73	0.57
1:K:473:LEU:HD21	1:K:484:TYR:OH	2.03	0.57
1:K:1027:ILE:HD11	1:K:1047:VAL:HG11	1.86	0.57
5:L:201:HEM:CBC	5:L:201:HEM:HMC1	2.28	0.57
1:M:520:ALA:HB2	1:M:647:GLY:O	2.04	0.57
1:M:708:THR:HG22	1:M:710:SER:H	1.69	0.57
1:M:902:ASP:CB	2:N:72:LYS:NZ	2.67	0.57
1:C:140:LEU:O	1:C:143:LEU:CD2	2.53	0.57
1:C:903:ASP:CG	1:C:1175:THR:HB	2.29	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1185:PHE:CZ	1:C:1192:LEU:HD11	2.35	0.57
1:C:1213:PHE:CD2	1:C:1214:TYR:N	2.73	0.57
1:E:189:LYS:O	1:E:190:GLN:OE1	2.22	0.57
1:E:206:LEU:HD21	1:E:235:HIS:CD2	2.39	0.57
1:I:903:ASP:CG	1:I:1175:THR:HB	2.29	0.57
1:I:1181:THR:HG22	1:I:1182:ASP:HB2	1.87	0.57
1:K:931:GLN:O	1:K:931:GLN:HG3	2.05	0.57
1:M:212:PHE:HE2	1:M:230:LEU:HD23	1.67	0.57
1:M:316:GLU:O	1:M:318:LYS:CG	2.50	0.57
1:M:876:ALA:CB	1:M:914:VAL:O	2.45	0.57
1:M:1185:PHE:HE1	1:M:1192:LEU:HD12	1.53	0.57
1:M:1233:VAL:HG11	1:M:1243:ILE:CG1	2.28	0.57
1:A:390:GLN:HB3	1:A:393:VAL:HG13	1.85	0.57
1:A:658:ASP:OD2	1:A:677:VAL:CG1	2.51	0.57
1:A:948:LEU:HD12	1:A:957:ASP:HB3	1.86	0.57
1:A:1094:SER:HB3	1:A:1135:PHE:CG	2.39	0.57
1:C:299:VAL:HB	1:C:301:MET:HE3	1.86	0.57
1:C:400:LEU:HB3	1:C:404:TRP:HZ3	1.68	0.57
1:C:1233:VAL:HG12	1:C:1243:ILE:HG23	1.86	0.57
1:E:597:TRP:CD1	1:E:1243:ILE:H	2.22	0.57
1:E:678:ASP:OD2	1:E:680:LYS:CE	2.46	0.57
1:E:1181:THR:HG22	1:E:1182:ASP:HB2	1.86	0.57
1:G:344:GLN:CD	1:G:352:ARG:HG3	2.30	0.57
1:G:597:TRP:CD1	1:G:1243:ILE:H	2.22	0.57
1:G:921:MET:HA	1:G:1240:ILE:HG13	1.85	0.57
1:I:278:TYR:N	1:I:278:TYR:CD1	2.73	0.57
1:I:520:ALA:HB2	1:I:647:GLY:O	2.05	0.57
1:I:948:LEU:HD12	1:I:957:ASP:HB3	1.86	0.57
1:K:206:LEU:HD21	1:K:235:HIS:CD2	2.39	0.57
1:K:543:ASN:HB2	1:K:576:VAL:CG2	2.33	0.57
1:K:902:ASP:CB	2:L:72:LYS:NZ	2.67	0.57
1:M:189:LYS:O	1:M:190:GLN:OE1	2.22	0.57
1:M:921:MET:HA	1:M:1240:ILE:HG13	1.85	0.57
1:M:948:LEU:HD12	1:M:957:ASP:HB3	1.86	0.57
1:A:140:LEU:O	1:A:143:LEU:CD2	2.53	0.57
1:A:334:PHE:CD1	1:A:334:PHE:N	2.73	0.57
1:A:678:ASP:OD2	1:A:680:LYS:HG3	2.05	0.57
2:B:103:ASN:C	2:B:104:GLU:O	2.46	0.57
1:C:1008:HIS:CE1	1:C:1010:GLN:HB2	2.40	0.57
1:G:544:PHE:CD1	1:G:576:VAL:HG11	2.36	0.57
1:G:882:LEU:HD23	1:G:882:LEU:O	2.03	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:902:ASP:CB	2:H:72:LYS:NZ	2.67	0.57
1:G:1233:VAL:HG12	1:G:1243:ILE:HG23	1.86	0.57
1:I:146:GLU:CG	1:K:111:ARG:HH11	2.15	0.57
1:I:473:LEU:HD21	1:I:484:TYR:OH	2.03	0.57
1:I:1008:HIS:CE1	1:I:1010:GLN:HB2	2.40	0.57
1:K:544:PHE:CD1	1:K:576:VAL:HG11	2.36	0.57
1:K:678:ASP:OD2	1:K:680:LYS:HG3	2.05	0.57
1:K:748:HIS:HD2	1:K:804:CYS:HB2	1.68	0.57
1:K:1113:SER:H	1:K:1120:LEU:HD13	1.69	0.57
1:M:400:LEU:HB3	1:M:404:TRP:HZ3	1.68	0.57
1:M:879:ARG:HB3	1:M:921:MET:HE1	1.81	0.57
1:M:1092:ASP:HB2	1:M:1133:SER:O	2.05	0.57
1:A:486:PHE:N	1:A:486:PHE:CD1	2.73	0.57
1:C:1136:SER:HA	1:C:1185:PHE:CD2	2.39	0.57
1:E:140:LEU:O	1:E:143:LEU:CD2	2.53	0.57
1:E:196:LEU:HD12	1:E:196:LEU:O	2.03	0.57
1:E:299:VAL:HB	1:E:301:MET:HE3	1.86	0.57
1:E:903:ASP:CG	1:E:1175:THR:HB	2.29	0.57
1:E:1213:PHE:CD2	1:E:1214:TYR:N	2.73	0.57
1:G:136:ILE:O	1:G:140:LEU:N	2.33	0.57
1:G:334:PHE:CD1	1:G:334:PHE:N	2.73	0.57
1:I:596:GLU:HB2	1:I:1245:GLN:O	2.04	0.57
1:I:603:ILE:HD13	1:I:1240:ILE:HG21	1.87	0.57
1:I:1027:ILE:HD11	1:I:1047:VAL:HG11	1.86	0.57
1:I:1233:VAL:HG12	1:I:1243:ILE:HG23	1.86	0.57
2:J:103:ASN:C	2:J:104:GLU:O	2.46	0.57
1:K:344:GLN:CD	1:K:352:ARG:HG3	2.30	0.57
1:K:708:THR:HG22	1:K:710:SER:H	1.69	0.57
1:K:903:ASP:CG	1:K:1175:THR:HB	2.29	0.57
1:K:946:LEU:HD11	1:K:959:LEU:HD12	1.86	0.57
1:K:1008:HIS:CE1	1:K:1010:GLN:HB2	2.40	0.57
2:L:103:ASN:C	2:L:104:GLU:O	2.46	0.57
1:M:486:PHE:N	1:M:486:PHE:CD1	2.73	0.57
1:M:678:ASP:OD2	1:M:680:LYS:HG3	2.05	0.57
1:A:151:THR:HB	1:A:279:VAL:HG12	1.87	0.57
1:A:206:LEU:HD21	1:A:235:HIS:CD2	2.39	0.57
1:A:334:PHE:HB3	1:A:337:ARG:HG2	1.86	0.57
1:A:453:LEU:HD11	1:A:454:GLN:NE2	2.00	0.57
1:A:1185:PHE:CZ	1:A:1192:LEU:HD11	2.35	0.57
1:A:1187:PRO:HG2	1:A:1229:PHE:HB3	1.87	0.57
1:C:151:THR:HB	1:C:279:VAL:HG12	1.87	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:196:LEU:O	1:C:196:LEU:HD12	2.03	0.57
1:C:206:LEU:HD21	1:C:235:HIS:CD2	2.39	0.57
1:C:453:LEU:HD11	1:C:454:GLN:NE2	2.00	0.57
1:C:1200:LYS:HD3	1:C:1202:TRP:NE1	2.20	0.57
1:E:334:PHE:CD1	1:E:334:PHE:N	2.73	0.57
1:G:400:LEU:HB3	1:G:404:TRP:CZ3	2.40	0.57
1:G:1027:ILE:HD11	1:G:1047:VAL:HG11	1.86	0.57
1:G:1213:PHE:O	1:G:1214:TYR:CB	2.49	0.57
1:I:400:LEU:HB3	1:I:404:TRP:CZ3	2.40	0.57
1:I:678:ASP:OD2	1:I:680:LYS:HG3	2.05	0.57
1:K:147:PRO:HG3	1:M:121:GLN:CD	2.30	0.57
1:K:151:THR:HB	1:K:279:VAL:HG12	1.87	0.57
1:K:278:TYR:N	1:K:278:TYR:CD1	2.73	0.57
1:K:316:GLU:O	1:K:318:LYS:CG	2.50	0.57
1:K:902:ASP:CB	2:L:72:LYS:HZ2	2.17	0.57
1:K:1181:THR:HG22	1:K:1182:ASP:HB2	1.87	0.57
1:M:140:LEU:O	1:M:143:LEU:CD2	2.53	0.57
1:M:997:GLN:HG3	1:M:1033:GLN:H	1.69	0.57
1:A:400:LEU:HB3	1:A:404:TRP:CZ3	2.40	0.57
1:A:597:TRP:CD1	1:A:1243:ILE:H	2.22	0.57
1:A:1233:VAL:HG12	1:A:1243:ILE:HG23	1.86	0.57
1:C:334:PHE:HB3	1:C:337:ARG:HG2	1.87	0.57
1:C:486:PHE:N	1:C:486:PHE:CD1	2.73	0.57
1:C:639:LEU:N	1:C:653:ILE:CG2	2.63	0.57
1:C:678:ASP:OD2	1:C:680:LYS:HG3	2.05	0.57
1:C:902:ASP:CB	2:D:72:LYS:NZ	2.67	0.57
1:E:400:LEU:HB3	1:E:404:TRP:CZ3	2.40	0.57
1:E:948:LEU:HD12	1:E:957:ASP:HB3	1.86	0.57
1:G:206:LEU:HD21	1:G:235:HIS:CD2	2.39	0.57
1:I:206:LEU:HD21	1:I:235:HIS:CD2	2.39	0.57
1:I:1213:PHE:CD2	1:I:1214:TYR:N	2.73	0.57
1:K:299:VAL:HB	1:K:301:MET:HE3	1.86	0.57
1:K:400:LEU:HB3	1:K:404:TRP:CZ3	2.40	0.57
1:K:603:ILE:HD13	1:K:1240:ILE:HG21	1.87	0.57
1:K:1046:THR:O	1:K:1062:SER:HB2	2.05	0.57
1:K:1213:PHE:CE2	1:K:1215:THR:HA	2.40	0.57
1:M:206:LEU:HD21	1:M:235:HIS:CD2	2.39	0.57
1:M:931:GLN:O	1:M:931:GLN:HG3	2.05	0.57
1:M:1046:THR:O	1:M:1062:SER:HB2	2.05	0.57
1:A:121:GLN:CD	1:M:147:PRO:HG3	2.30	0.56
1:A:336:ASN:HB3	1:M:431:LYS:HZ2	1.63	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:997:GLN:HG3	1:A:1033:GLN:H	1.69	0.56
1:A:1200:LYS:HD3	1:A:1202:TRP:NE1	2.20	0.56
1:A:1216:ASN:HB3	1:A:1242:TYR:OH	2.05	0.56
1:C:147:PRO:HG3	1:E:121:GLN:CD	2.30	0.56
1:C:189:LYS:O	1:C:190:GLN:OE1	2.22	0.56
1:C:479:ASP:CG	1:C:483:TRP:HE1	2.13	0.56
1:C:883:SER:OG	1:C:902:ASP:CA	2.53	0.56
1:C:946:LEU:HD11	1:C:959:LEU:HD12	1.86	0.56
1:C:997:GLN:HG3	1:C:1033:GLN:H	1.69	0.56
1:C:1092:ASP:HB2	1:C:1133:SER:O	2.05	0.56
1:E:147:PRO:HG3	1:G:121:GLN:CD	2.30	0.56
1:E:453:LEU:HD11	1:E:454:GLN:NE2	2.00	0.56
1:E:479:ASP:CG	1:E:483:TRP:HE1	2.13	0.56
1:E:708:THR:HG22	1:E:710:SER:H	1.69	0.56
1:E:946:LEU:HD11	1:E:959:LEU:HD12	1.86	0.56
1:G:140:LEU:O	1:G:143:LEU:CD2	2.53	0.56
1:G:479:ASP:CG	1:G:483:TRP:HE1	2.13	0.56
1:G:883:SER:OG	1:G:902:ASP:CA	2.53	0.56
1:I:147:PRO:HG3	1:K:121:GLN:CD	2.30	0.56
1:I:231:MET:SD	1:I:258:CYS:SG	2.97	0.56
1:I:427:ASP:HB3	1:I:434:ARG:O	2.05	0.56
1:I:479:ASP:CG	1:I:483:TRP:HE1	2.13	0.56
1:K:479:ASP:CG	1:K:483:TRP:HE1	2.13	0.56
1:K:525:GLU:O	1:K:528:GLU:HG2	2.05	0.56
1:K:1187:PRO:HG2	1:K:1229:PHE:HB3	1.87	0.56
1:K:1213:PHE:CD2	1:K:1214:TYR:N	2.73	0.56
1:M:334:PHE:HB3	1:M:337:ARG:HG2	1.87	0.56
1:M:615:THR:O	1:M:904:GLN:OE1	2.23	0.56
1:M:879:ARG:CB	1:M:921:MET:CE	2.73	0.56
1:A:147:PRO:HG3	1:C:121:GLN:CD	2.30	0.56
1:A:479:ASP:CG	1:A:483:TRP:HE1	2.13	0.56
1:A:544:PHE:CD1	1:A:576:VAL:CG2	2.88	0.56
1:A:564:VAL:CG1	1:A:583:GLN:HG2	2.35	0.56
1:C:278:TYR:N	1:C:278:TYR:CD1	2.73	0.56
1:C:400:LEU:HB3	1:C:404:TRP:CZ3	2.40	0.56
1:C:999:ARG:CD	1:C:1030:TRP:CD1	2.76	0.56
1:C:1213:PHE:CE2	1:C:1215:THR:HA	2.40	0.56
1:E:344:GLN:CD	1:E:352:ARG:HG3	2.30	0.56
1:E:427:ASP:HB3	1:E:434:ARG:O	2.05	0.56
1:G:295:LEU:O	1:G:299:VAL:HG22	2.05	0.56
1:G:544:PHE:CD1	1:G:576:VAL:CG2	2.88	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:595:LEU:CD2	1:G:1244:LEU:CD1	2.48	0.56
1:I:140:LEU:O	1:I:143:LEU:CD2	2.53	0.56
1:I:344:GLN:CD	1:I:352:ARG:HG3	2.30	0.56
1:I:921:MET:HA	1:I:1240:ILE:HG13	1.85	0.56
1:I:1201:TRP:HE3	1:I:1210:SER:CB	2.16	0.56
1:K:596:GLU:HB2	1:K:1245:GLN:O	2.05	0.56
1:M:149:TRP:HZ3	1:M:251:LEU:HD22	1.70	0.56
1:M:151:THR:HB	1:M:279:VAL:HG12	1.87	0.56
1:M:278:TYR:N	1:M:278:TYR:CD1	2.73	0.56
1:M:334:PHE:CD1	1:M:334:PHE:N	2.73	0.56
1:M:596:GLU:HB2	1:M:1245:GLN:O	2.05	0.56
1:M:1187:PRO:HG2	1:M:1229:PHE:HB3	1.87	0.56
1:A:189:LYS:O	1:A:190:GLN:OE1	2.22	0.56
1:A:299:VAL:HB	1:A:301:MET:HE3	1.86	0.56
1:A:520:ALA:HB2	1:A:647:GLY:O	2.05	0.56
1:A:1046:THR:O	1:A:1062:SER:HB2	2.05	0.56
1:A:1092:ASP:HB2	1:A:1133:SER:O	2.05	0.56
1:C:171:HIS:NE2	1:C:175:GLU:CG	2.66	0.56
1:C:295:LEU:O	1:C:299:VAL:HG22	2.05	0.56
1:C:596:GLU:HB2	1:C:1245:GLN:O	2.05	0.56
1:C:708:THR:HG22	1:C:710:SER:H	1.69	0.56
1:C:1181:THR:HG22	1:C:1182:ASP:HB2	1.86	0.56
1:E:544:PHE:CD1	1:E:576:VAL:CG2	2.88	0.56
1:E:564:VAL:CG1	1:E:583:GLN:HG3	2.35	0.56
1:E:609:LEU:HB3	1:E:908:LEU:HB3	1.87	0.56
1:E:636:ASP:C	1:E:637:LYS:CG	2.74	0.56
1:E:931:GLN:O	1:E:931:GLN:HG3	2.05	0.56
1:E:1200:LYS:HD3	1:E:1202:TRP:NE1	2.20	0.56
1:G:596:GLU:HB2	1:G:1245:GLN:O	2.05	0.56
1:G:946:LEU:HD11	1:G:959:LEU:HD12	1.86	0.56
1:G:1213:PHE:CE2	1:G:1215:THR:HA	2.40	0.56
1:I:299:VAL:HB	1:I:301:MET:HE3	1.86	0.56
1:I:862:TYR:CE1	1:I:881:HIS:HB3	2.38	0.56
1:I:883:SER:OG	1:I:902:ASP:CA	2.53	0.56
1:I:1187:PRO:HG2	1:I:1229:PHE:HB3	1.87	0.56
1:I:1213:PHE:CE2	1:I:1215:THR:HA	2.40	0.56
1:I:1216:ASN:HB3	1:I:1242:TYR:OH	2.06	0.56
1:K:140:LEU:O	1:K:143:LEU:CD2	2.53	0.56
1:K:295:LEU:O	1:K:299:VAL:HG22	2.05	0.56
1:K:427:ASP:HB3	1:K:434:ARG:O	2.05	0.56
1:K:615:THR:O	1:K:904:GLN:OE1	2.23	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:921:MET:HA	1:K:1240:ILE:HG13	1.85	0.56
1:K:948:LEU:HD12	1:K:957:ASP:HB3	1.86	0.56
1:K:1201:TRP:HE3	1:K:1210:SER:CB	2.15	0.56
1:K:1233:VAL:HG12	1:K:1243:ILE:HG23	1.86	0.56
1:M:295:LEU:O	1:M:299:VAL:HG22	2.05	0.56
1:M:400:LEU:HB3	1:M:404:TRP:CZ3	2.40	0.56
1:M:479:ASP:CG	1:M:483:TRP:HE1	2.13	0.56
1:M:525:GLU:O	1:M:528:GLU:HG2	2.05	0.56
1:M:544:PHE:CD1	1:M:576:VAL:CG2	2.88	0.56
1:M:639:LEU:N	1:M:653:ILE:CG2	2.63	0.56
1:M:1213:PHE:CE2	1:M:1215:THR:HA	2.40	0.56
1:M:1213:PHE:CD2	1:M:1214:TYR:N	2.72	0.56
1:A:111:ARG:NH1	1:M:146:GLU:HG2	2.18	0.56
1:A:596:GLU:HB2	1:A:1245:GLN:O	2.05	0.56
1:A:615:THR:O	1:A:904:GLN:OE1	2.24	0.56
1:A:862:TYR:CE1	1:A:881:HIS:HB3	2.38	0.56
1:A:970:SER:OG	1:A:973:LEU:O	2.24	0.56
1:C:564:VAL:CG1	1:C:583:GLN:HG3	2.35	0.56
1:C:603:ILE:HD13	1:C:1240:ILE:HG21	1.87	0.56
1:C:1187:PRO:HG2	1:C:1229:PHE:HB3	1.87	0.56
1:E:419:VAL:HG22	1:E:424:LEU:O	2.06	0.56
1:E:788:LEU:HG	1:E:790:LEU:HG	1.88	0.56
1:E:1008:HIS:CE1	1:E:1010:GLN:HB2	2.40	0.56
1:G:419:VAL:HG22	1:G:424:LEU:O	2.06	0.56
1:G:603:ILE:HD13	1:G:1240:ILE:HG21	1.87	0.56
1:G:609:LEU:HB3	1:G:908:LEU:HB3	1.87	0.56
1:G:902:ASP:HB3	2:H:72:LYS:HZ1	1.71	0.56
1:G:970:SER:OG	1:G:973:LEU:O	2.24	0.56
1:G:1201:TRP:HE3	1:G:1210:SER:CB	2.15	0.56
1:I:241:ILE:O	1:I:242:LEU:HD12	2.05	0.56
1:I:946:LEU:HD11	1:I:959:LEU:HD12	1.86	0.56
1:I:970:SER:OG	1:I:973:LEU:O	2.24	0.56
1:K:149:TRP:HZ3	1:K:251:LEU:HD22	1.70	0.56
1:K:513:LYS:CD	1:K:522:LEU:HG	2.36	0.56
1:M:171:HIS:NE2	1:M:175:GLU:CG	2.66	0.56
1:M:1200:LYS:HD3	1:M:1202:TRP:NE1	2.20	0.56
1:A:278:TYR:N	1:A:278:TYR:CD1	2.73	0.56
1:C:334:PHE:CD1	1:C:334:PHE:N	2.73	0.56
1:C:609:LEU:HB3	1:C:908:LEU:HB3	1.87	0.56
1:C:788:LEU:HG	1:C:790:LEU:HG	1.88	0.56
1:C:970:SER:OG	1:C:973:LEU:O	2.24	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:151:THR:HB	1:E:279:VAL:HG12	1.87	0.56
1:E:564:VAL:CG1	1:E:583:GLN:HG2	2.36	0.56
1:E:1240:ILE:HG22	1:E:1242:TYR:CE1	2.41	0.56
1:G:473:LEU:HD21	1:G:484:TYR:OH	2.03	0.56
1:G:520:ALA:HB2	1:G:647:GLY:O	2.05	0.56
1:G:639:LEU:N	1:G:653:ILE:CG2	2.63	0.56
1:G:1092:ASP:HB2	1:G:1133:SER:O	2.05	0.56
1:G:1213:PHE:HE2	1:G:1215:THR:HG22	1.69	0.56
1:G:1240:ILE:HG22	1:G:1242:TYR:CE1	2.41	0.56
2:H:103:ASN:O	2:H:104:GLU:C	2.46	0.56
1:I:151:THR:HB	1:I:279:VAL:HG12	1.87	0.56
1:I:419:VAL:HG22	1:I:424:LEU:O	2.06	0.56
1:I:544:PHE:CD1	1:I:576:VAL:CG2	2.88	0.56
1:I:615:THR:O	1:I:904:GLN:OE1	2.23	0.56
1:K:788:LEU:HG	1:K:790:LEU:HG	1.88	0.56
1:K:997:GLN:HG3	1:K:1033:GLN:H	1.69	0.56
1:M:344:GLN:CD	1:M:352:ARG:HG3	2.30	0.56
1:M:788:LEU:HG	1:M:790:LEU:HG	1.88	0.56
1:M:1181:THR:HG22	1:M:1182:ASP:HB2	1.87	0.56
1:A:146:GLU:HG2	1:C:111:ARG:NH1	2.19	0.56
1:C:419:VAL:HG22	1:C:424:LEU:O	2.06	0.56
1:C:1046:THR:CG2	1:C:1063:PHE:CE2	2.89	0.56
1:E:678:ASP:OD2	1:E:680:LYS:HG3	2.05	0.56
1:E:883:SER:OG	1:E:902:ASP:CA	2.53	0.56
1:E:902:ASP:CB	2:F:72:LYS:HZ2	2.17	0.56
1:E:1151:ILE:CG1	1:E:1167:PRO:HG2	2.36	0.56
1:G:241:ILE:O	1:G:242:LEU:HD12	2.05	0.56
1:I:295:LEU:O	1:I:299:VAL:HG22	2.05	0.56
1:I:513:LYS:CD	1:I:522:LEU:HG	2.36	0.56
1:K:241:ILE:O	1:K:242:LEU:HD12	2.05	0.56
1:M:347:ASN:C	1:M:348:LYS:HG2	2.31	0.56
1:A:147:PRO:HG3	1:C:121:GLN:OE1	2.06	0.56
1:A:316:GLU:O	1:A:318:LYS:CG	2.50	0.56
1:A:344:GLN:CD	1:A:352:ARG:HG3	2.30	0.56
1:A:595:LEU:HD22	1:A:1244:LEU:HD12	1.78	0.56
1:A:1008:HIS:CE1	1:A:1010:GLN:HB2	2.40	0.56
1:A:1046:THR:CG2	1:A:1063:PHE:CE2	2.89	0.56
1:C:344:GLN:CD	1:C:352:ARG:HG3	2.30	0.56
1:C:427:ASP:HB3	1:C:434:ARG:O	2.05	0.56
1:C:558:GLN:CB	1:C:559:PRO:CD	2.78	0.56
1:C:727:LEU:HB2	1:C:739:MET:HE2	1.88	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1151:ILE:CG1	1:C:1167:PRO:HG2	2.36	0.56
1:C:1216:ASN:HB3	1:C:1242:TYR:OH	2.06	0.56
1:E:278:TYR:N	1:E:278:TYR:CD1	2.73	0.56
1:E:393:VAL:HG11	1:E:486:PHE:CE2	2.41	0.56
1:E:520:ALA:HB2	1:E:647:GLY:O	2.05	0.56
1:E:596:GLU:HB2	1:E:1245:GLN:O	2.05	0.56
1:E:1046:THR:CG2	1:E:1063:PHE:CE2	2.89	0.56
1:E:1092:ASP:HB2	1:E:1133:SER:O	2.05	0.56
1:E:1233:VAL:HG12	1:E:1243:ILE:HG23	1.86	0.56
1:G:147:PRO:HG3	1:I:121:GLN:CD	2.30	0.56
1:G:278:TYR:N	1:G:278:TYR:CD1	2.73	0.56
1:G:678:ASP:OD2	1:G:680:LYS:HG3	2.05	0.56
1:G:1008:HIS:CE1	1:G:1010:GLN:HB2	2.40	0.56
1:I:525:GLU:O	1:I:528:GLU:HG2	2.05	0.56
1:I:862:TYR:CE1	1:I:885:VAL:HG12	2.21	0.56
1:K:1200:LYS:HD3	1:K:1202:TRP:NE1	2.20	0.56
1:M:249:TRP:O	1:M:252:LYS:HB2	2.06	0.56
1:M:299:VAL:HB	1:M:301:MET:HE3	1.86	0.56
1:M:427:ASP:HB3	1:M:434:ARG:O	2.05	0.56
1:M:564:VAL:CG1	1:M:583:GLN:HG3	2.35	0.56
1:M:1008:HIS:CE1	1:M:1010:GLN:HB2	2.40	0.56
1:A:393:VAL:HG11	1:A:486:PHE:CE2	2.41	0.56
1:A:603:ILE:HD13	1:A:1240:ILE:HG21	1.87	0.56
1:A:727:LEU:HB2	1:A:739:MET:HE2	1.88	0.56
1:A:788:LEU:HG	1:A:790:LEU:HG	1.88	0.56
1:C:560:PHE:O	1:C:561:PRO:C	2.49	0.56
1:C:948:LEU:HD12	1:C:957:ASP:HB3	1.86	0.56
1:C:1240:ILE:HG22	1:C:1242:TYR:CE1	2.41	0.56
1:E:525:GLU:O	1:E:528:GLU:HG2	2.05	0.56
1:E:727:LEU:HB2	1:E:739:MET:HE2	1.88	0.56
1:G:149:TRP:HZ3	1:G:251:LEU:HD22	1.70	0.56
1:G:876:ALA:CB	1:G:914:VAL:O	2.45	0.56
1:G:997:GLN:HG3	1:G:1033:GLN:H	1.69	0.56
1:G:1187:PRO:HG2	1:G:1229:PHE:HB3	1.87	0.56
1:I:334:PHE:HB3	1:I:337:ARG:HG2	1.86	0.56
1:I:1046:THR:O	1:I:1062:SER:HB2	2.05	0.56
1:I:1092:ASP:HB2	1:I:1133:SER:O	2.05	0.56
1:K:486:PHE:N	1:K:486:PHE:CD1	2.73	0.56
1:K:544:PHE:CD1	1:K:576:VAL:CG2	2.88	0.56
1:K:944:ARG:NE	1:K:961:GLU:O	2.39	0.56
1:K:1216:ASN:HB3	1:K:1242:TYR:OH	2.06	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:883:SER:OG	1:M:902:ASP:CA	2.53	0.56
1:A:295:LEU:O	1:A:299:VAL:HG22	2.05	0.56
1:A:883:SER:OG	1:A:902:ASP:CA	2.53	0.56
1:C:1125:GLY:O	1:C:1152:ARG:NH1	2.39	0.56
1:E:295:LEU:O	1:E:299:VAL:HG22	2.05	0.56
1:E:334:PHE:HB3	1:E:337:ARG:HG2	1.87	0.56
1:G:143:LEU:HG	1:G:259:GLN:NE2	2.21	0.56
1:G:427:ASP:HB3	1:G:434:ARG:O	2.05	0.56
1:I:143:LEU:HG	1:I:259:GLN:NE2	2.21	0.56
1:I:944:ARG:NE	1:I:961:GLU:O	2.39	0.56
1:I:984:ALA:CA	1:I:999:ARG:O	2.47	0.56
1:I:1240:ILE:HG22	1:I:1242:TYR:CE1	2.41	0.56
1:K:595:LEU:CD1	1:K:1244:LEU:HD13	2.36	0.56
1:K:883:SER:OG	1:K:902:ASP:CA	2.53	0.56
1:K:1247:LEU:CD1	1:K:1248:GLU:H	2.13	0.56
1:M:241:ILE:O	1:M:242:LEU:HD12	2.05	0.56
1:M:1046:THR:CG2	1:M:1063:PHE:CE2	2.89	0.56
1:M:1216:ASN:HB3	1:M:1242:TYR:OH	2.06	0.56
1:A:249:TRP:O	1:A:252:LYS:HB2	2.06	0.56
1:A:347:ASN:C	1:A:348:LYS:HG2	2.31	0.56
1:A:560:PHE:O	1:A:561:PRO:C	2.49	0.56
1:A:609:LEU:HB3	1:A:908:LEU:HB3	1.87	0.56
1:A:1217:GLY:O	1:A:1218:THR:CG2	2.54	0.56
1:C:393:VAL:HG11	1:C:486:PHE:CE2	2.41	0.56
1:C:564:VAL:CG1	1:C:583:GLN:HG2	2.36	0.56
1:E:560:PHE:O	1:E:561:PRO:C	2.49	0.56
1:E:1213:PHE:CE2	1:E:1215:THR:HA	2.40	0.56
1:G:299:VAL:HB	1:G:301:MET:HE3	1.86	0.56
1:G:345:LEU:HD11	1:G:353:ILE:CD1	2.36	0.56
1:G:595:LEU:HG	1:G:1201:TRP:HH2	1.71	0.56
1:G:788:LEU:HG	1:G:790:LEU:HG	1.88	0.56
1:G:1182:ASP:HB3	1:G:1223:ILE:HG21	1.88	0.56
1:G:1200:LYS:HG3	1:G:1211:GLN:CA	2.36	0.56
1:I:285:SER:OG	1:I:286:LEU:N	2.34	0.56
1:I:1151:ILE:CG1	1:I:1167:PRO:HG2	2.36	0.56
1:I:1182:ASP:HB3	1:I:1223:ILE:HG21	1.88	0.56
1:K:170:ASP:OD1	1:K:171:HIS:N	2.39	0.56
1:K:882:LEU:CD2	1:K:882:LEU:N	2.39	0.56
1:K:970:SER:OG	1:K:973:LEU:O	2.24	0.56
1:K:1125:GLY:O	1:K:1152:ARG:NH1	2.39	0.56
1:K:1151:ILE:CG1	1:K:1167:PRO:HG2	2.36	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:1225:VAL:CG1	1:K:1229:PHE:CD1	2.89	0.56
1:K:1240:ILE:HG22	1:K:1242:TYR:CE1	2.41	0.56
1:M:727:LEU:HB2	1:M:739:MET:HE2	1.88	0.56
1:M:970:SER:OG	1:M:973:LEU:O	2.24	0.56
1:A:241:ILE:O	1:A:242:LEU:HD12	2.05	0.55
1:A:544:PHE:HE1	1:A:576:VAL:CG1	1.88	0.55
1:A:1200:LYS:HG3	1:A:1211:GLN:CA	2.36	0.55
1:C:505:PHE:HZ	1:C:540:VAL:CG1	2.17	0.55
1:C:931:GLN:O	1:C:931:GLN:HG3	2.05	0.55
1:E:143:LEU:HG	1:E:259:GLN:NE2	2.21	0.55
1:E:149:TRP:HZ3	1:E:251:LEU:HD22	1.70	0.55
1:E:316:GLU:O	1:E:318:LYS:CG	2.50	0.55
1:E:544:PHE:CD1	1:E:576:VAL:HG11	2.36	0.55
1:G:249:TRP:O	1:G:252:LYS:HB2	2.06	0.55
1:G:344:GLN:HA	1:G:347:ASN:HD22	1.71	0.55
1:G:393:VAL:HG11	1:G:486:PHE:CE2	2.41	0.55
1:G:564:VAL:CG1	1:G:583:GLN:HG3	2.35	0.55
1:G:1151:ILE:CG1	1:G:1167:PRO:HG2	2.36	0.55
1:I:170:ASP:OD1	1:I:171:HIS:N	2.39	0.55
1:I:334:PHE:CD1	1:I:334:PHE:N	2.73	0.55
1:I:345:LEU:HD11	1:I:353:ILE:CD1	2.36	0.55
1:I:347:ASN:C	1:I:348:LYS:HG2	2.31	0.55
1:I:609:LEU:HB3	1:I:908:LEU:HB3	1.87	0.55
1:I:788:LEU:HG	1:I:790:LEU:HG	1.88	0.55
1:I:1200:LYS:HG3	1:I:1211:GLN:CA	2.36	0.55
1:K:639:LEU:N	1:K:653:ILE:CG2	2.62	0.55
1:K:1213:PHE:HE2	1:K:1215:THR:HA	1.72	0.55
1:M:603:ILE:HD13	1:M:1240:ILE:HG21	1.87	0.55
1:M:944:ARG:NE	1:M:961:GLU:O	2.39	0.55
1:M:1225:VAL:CG1	1:M:1229:PHE:CD1	2.89	0.55
1:A:121:GLN:HA	1:A:169:ARG:HH22	1.71	0.55
1:A:179:PRO:HD3	1:A:237:ARG:NH1	2.15	0.55
1:A:345:LEU:HD11	1:A:353:ILE:CD1	2.36	0.55
1:A:603:ILE:HB	1:A:1240:ILE:HG21	1.87	0.55
1:A:1125:GLY:O	1:A:1152:ARG:NH1	2.39	0.55
1:A:1151:ILE:CG1	1:A:1167:PRO:HG2	2.36	0.55
1:A:1213:PHE:CE2	1:A:1215:THR:HA	2.40	0.55
1:C:241:ILE:O	1:C:242:LEU:HD12	2.05	0.55
1:C:544:PHE:CD1	1:C:576:VAL:CG2	2.88	0.55
1:C:615:THR:O	1:C:904:GLN:OE1	2.24	0.55
1:C:950:ASN:OD1	1:C:951:GLY:N	2.40	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1213:PHE:HE2	1:C:1215:THR:HA	1.72	0.55
1:E:171:HIS:NE2	1:E:175:GLU:CG	2.66	0.55
1:E:246:TRP:C	1:E:247:ASP:OD1	2.50	0.55
1:E:249:TRP:O	1:E:252:LYS:HB2	2.06	0.55
1:E:347:ASN:C	1:E:348:LYS:HG2	2.31	0.55
1:E:595:LEU:HG	1:E:1201:TRP:HH2	1.71	0.55
1:E:1216:ASN:HB3	1:E:1242:TYR:OH	2.06	0.55
1:G:151:THR:HB	1:G:279:VAL:HG12	1.87	0.55
1:G:505:PHE:HZ	1:G:540:VAL:CG1	2.17	0.55
1:G:1046:THR:CG2	1:G:1063:PHE:CE2	2.89	0.55
1:I:344:GLN:HA	1:I:347:ASN:HD22	1.71	0.55
1:I:457:HIS:CE1	1:I:493:SER:OG	2.60	0.55
1:I:564:VAL:CG1	1:I:583:GLN:HG3	2.35	0.55
1:I:595:LEU:CD1	1:I:1244:LEU:HD13	2.36	0.55
1:I:623:PHE:HD1	1:I:889:MET:HE3	1.72	0.55
1:K:334:PHE:HB3	1:K:337:ARG:HG2	1.87	0.55
1:K:345:LEU:HD11	1:K:353:ILE:CD1	2.36	0.55
1:K:457:HIS:CE1	1:K:493:SER:OG	2.60	0.55
1:M:862:TYR:CE2	1:M:881:HIS:HB2	2.25	0.55
1:M:950:ASN:OD1	1:M:951:GLY:N	2.40	0.55
1:M:1125:GLY:O	1:M:1152:ARG:NH1	2.39	0.55
1:A:149:TRP:HZ3	1:A:251:LEU:HD22	1.70	0.55
1:A:564:VAL:CG1	1:A:583:GLN:HG3	2.35	0.55
1:A:636:ASP:O	1:A:637:LYS:CB	2.55	0.55
1:A:944:ARG:NE	1:A:961:GLU:O	2.39	0.55
1:A:950:ASN:OD1	1:A:951:GLY:N	2.40	0.55
1:A:984:ALA:CA	1:A:999:ARG:O	2.47	0.55
1:C:146:GLU:HG2	1:E:111:ARG:NH1	2.19	0.55
1:C:544:PHE:HE1	1:C:576:VAL:CG1	1.88	0.55
1:E:170:ASP:OD1	1:E:171:HIS:N	2.39	0.55
1:E:241:ILE:O	1:E:242:LEU:HD12	2.05	0.55
1:E:345:LEU:HD11	1:E:353:ILE:CD1	2.37	0.55
1:G:334:PHE:HB3	1:G:337:ARG:HG2	1.86	0.55
1:G:419:VAL:HG11	1:G:426:CYS:HG	1.71	0.55
1:G:513:LYS:CD	1:G:522:LEU:HG	2.36	0.55
1:G:615:THR:O	1:G:904:GLN:OE1	2.23	0.55
1:G:623:PHE:HD1	1:G:889:MET:HE3	1.72	0.55
1:I:249:TRP:O	1:I:252:LYS:HB2	2.06	0.55
1:I:1225:VAL:CG1	1:I:1229:PHE:CD1	2.89	0.55
1:K:143:LEU:HG	1:K:259:GLN:NE2	2.21	0.55
1:K:249:TRP:O	1:K:252:LYS:HB2	2.06	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:393:VAL:HG11	1:K:486:PHE:CE2	2.41	0.55
1:K:419:VAL:HG22	1:K:424:LEU:O	2.06	0.55
1:K:603:ILE:HB	1:K:1240:ILE:HG21	1.87	0.55
1:K:636:ASP:O	1:K:637:LYS:CB	2.55	0.55
1:K:950:ASN:OD1	1:K:951:GLY:N	2.40	0.55
1:M:393:VAL:HG11	1:M:486:PHE:CE2	2.41	0.55
1:M:980:ASP:OD1	1:M:981:GLU:N	2.40	0.55
1:M:1240:ILE:HG22	1:M:1242:TYR:CE1	2.41	0.55
1:A:419:VAL:HG22	1:A:424:LEU:O	2.06	0.55
1:A:427:ASP:HB3	1:A:434:ARG:O	2.05	0.55
1:A:595:LEU:CD1	1:A:1244:LEU:HD13	2.36	0.55
1:A:597:TRP:HZ2	1:A:603:ILE:HG12	1.70	0.55
1:A:931:GLN:O	1:A:931:GLN:HG3	2.05	0.55
1:A:1181:THR:HG22	1:A:1182:ASP:HB2	1.86	0.55
1:A:1233:VAL:CB	1:A:1242:TYR:O	2.54	0.55
1:C:520:ALA:HB2	1:C:647:GLY:O	2.05	0.55
1:C:597:TRP:HZ2	1:C:603:ILE:HG12	1.70	0.55
1:C:1046:THR:O	1:C:1062:SER:HB2	2.05	0.55
1:E:595:LEU:CD1	1:E:1244:LEU:HD13	2.36	0.55
1:E:603:ILE:HD13	1:E:1240:ILE:HG21	1.87	0.55
1:E:1187:PRO:HG2	1:E:1229:PHE:HB3	1.87	0.55
1:E:1225:VAL:CG1	1:E:1229:PHE:CD1	2.89	0.55
1:G:950:ASN:OD1	1:G:951:GLY:N	2.40	0.55
1:G:1216:ASN:HB3	1:G:1242:TYR:OH	2.06	0.55
1:I:1200:LYS:HD3	1:I:1202:TRP:NE1	2.20	0.55
1:K:146:GLU:HG2	1:M:111:ARG:NH1	2.19	0.55
1:K:419:VAL:HG11	1:K:426:CYS:HG	1.69	0.55
1:K:597:TRP:HZ2	1:K:603:ILE:HG12	1.70	0.55
1:K:623:PHE:HD1	1:K:889:MET:HE3	1.72	0.55
1:K:1092:ASP:HB2	1:K:1133:SER:O	2.05	0.55
1:K:1182:ASP:HB3	1:K:1223:ILE:HG21	1.88	0.55
1:K:1200:LYS:HG3	1:K:1211:GLN:CA	2.36	0.55
1:K:1233:VAL:CB	1:K:1242:TYR:O	2.54	0.55
1:M:345:LEU:HD11	1:M:353:ILE:CD1	2.37	0.55
1:M:564:VAL:CG1	1:M:583:GLN:HG2	2.36	0.55
1:M:1201:TRP:HE3	1:M:1210:SER:CB	2.16	0.55
1:A:121:GLN:OE1	1:M:147:PRO:HG3	2.06	0.55
1:A:678:ASP:O	1:A:679:LYS:CB	2.55	0.55
1:A:1240:ILE:HG22	1:A:1242:TYR:CE1	2.41	0.55
1:C:108:SER:O	1:C:111:ARG:HG2	2.07	0.55
1:C:285:SER:OG	1:C:286:LEU:N	2.35	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:595:LEU:HG	1:C:1201:TRP:HH2	1.71	0.55
1:C:1200:LYS:HG3	1:C:1211:GLN:CA	2.36	0.55
1:C:1225:VAL:CG1	1:C:1229:PHE:CD1	2.89	0.55
1:E:147:PRO:HG3	1:G:121:GLN:OE1	2.06	0.55
1:E:456:LEU:O	1:E:459:LYS:N	2.38	0.55
1:E:1182:ASP:HB3	1:E:1223:ILE:HG21	1.88	0.55
1:E:1185:PHE:CD1	1:E:1192:LEU:CG	2.63	0.55
1:I:147:PRO:HG3	1:K:121:GLN:OE1	2.06	0.55
1:I:333:ASP:CB	1:I:334:PHE:CE1	2.85	0.55
1:I:1217:GLY:O	1:I:1218:THR:CG2	2.54	0.55
1:K:108:SER:O	1:K:111:ARG:HG2	2.07	0.55
1:K:928:VAL:CG1	1:K:937:VAL:HA	2.28	0.55
1:M:108:SER:O	1:M:111:ARG:HG2	2.07	0.55
1:M:246:TRP:C	1:M:247:ASP:OD1	2.50	0.55
1:M:603:ILE:HB	1:M:1240:ILE:HG21	1.87	0.55
1:M:609:LEU:HB3	1:M:908:LEU:HB3	1.87	0.55
1:A:637:LYS:CA	1:A:660:VAL:HG23	2.36	0.55
1:A:862:TYR:CZ	1:A:881:HIS:N	2.74	0.55
1:A:1220:LEU:HA	1:A:1236:ASP:HB3	1.87	0.55
1:C:347:ASN:C	1:C:348:LYS:HG2	2.31	0.55
1:E:615:THR:O	1:E:904:GLN:OE1	2.23	0.55
1:E:950:ASN:OD1	1:E:951:GLY:N	2.40	0.55
1:E:1094:SER:HA	1:E:1135:PHE:HB2	1.89	0.55
1:E:1233:VAL:CB	1:E:1242:TYR:O	2.54	0.55
1:G:246:TRP:C	1:G:247:ASP:OD1	2.50	0.55
1:I:950:ASN:OD1	1:I:951:GLY:N	2.40	0.55
1:K:147:PRO:HG3	1:M:121:GLN:OE1	2.06	0.55
1:K:246:TRP:C	1:K:247:ASP:OD1	2.50	0.55
1:K:322:LEU:O	1:K:326:LEU:HB2	2.07	0.55
1:K:1046:THR:CG2	1:K:1063:PHE:CE2	2.89	0.55
1:M:637:LYS:CA	1:M:660:VAL:HG23	2.36	0.55
1:A:845:TYR:OH	1:A:847:ASP:HB2	2.07	0.55
1:C:249:TRP:O	1:C:252:LYS:HB2	2.06	0.55
1:C:345:LEU:HD11	1:C:353:ILE:CD1	2.36	0.55
1:C:457:HIS:CE1	1:C:493:SER:HG	2.24	0.55
1:C:603:ILE:HB	1:C:1240:ILE:HG21	1.87	0.55
1:C:1094:SER:HA	1:C:1135:PHE:HB2	1.89	0.55
1:E:603:ILE:HB	1:E:1240:ILE:HG21	1.87	0.55
1:G:147:PRO:HG3	1:I:121:GLN:OE1	2.06	0.55
1:G:456:LEU:O	1:G:459:LYS:N	2.38	0.55
1:G:486:PHE:N	1:G:486:PHE:CD1	2.73	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:603:ILE:HB	1:G:1240:ILE:HG21	1.87	0.55
1:G:845:TYR:OH	1:G:847:ASP:HB2	2.07	0.55
1:G:999:ARG:CD	1:G:1030:TRP:CD1	2.76	0.55
1:G:1125:GLY:O	1:G:1152:ARG:NH1	2.39	0.55
1:I:322:LEU:O	1:I:326:LEU:HB2	2.07	0.55
1:I:564:VAL:CG1	1:I:583:GLN:HG2	2.36	0.55
1:K:121:GLN:HA	1:K:169:ARG:HH22	1.71	0.55
1:K:334:PHE:CD1	1:K:334:PHE:N	2.73	0.55
1:K:1092:ASP:OD2	1:K:1134:ALA:HA	2.07	0.55
1:M:170:ASP:OD1	1:M:171:HIS:N	2.39	0.55
1:M:678:ASP:O	1:M:679:LYS:CB	2.55	0.55
1:M:862:TYR:CZ	1:M:881:HIS:N	2.74	0.55
1:M:1094:SER:HA	1:M:1135:PHE:HB2	1.89	0.55
1:M:1220:LEU:HA	1:M:1236:ASP:HB3	1.88	0.55
1:A:146:GLU:CB	1:A:147:PRO:HD2	2.37	0.55
1:A:229:ILE:HG22	1:A:233:ARG:CD	2.28	0.55
1:A:322:LEU:O	1:A:326:LEU:HB2	2.07	0.55
1:C:170:ASP:OD1	1:C:171:HIS:N	2.39	0.55
1:C:344:GLN:HA	1:C:347:ASN:HD22	1.71	0.55
1:C:379:ILE:HD11	1:C:417:GLU:OE1	2.07	0.55
1:C:862:TYR:CZ	1:C:881:HIS:N	2.74	0.55
1:C:944:ARG:NE	1:C:961:GLU:O	2.39	0.55
1:C:1220:LEU:HA	1:C:1236:ASP:HB3	1.88	0.55
1:E:136:ILE:O	1:E:140:LEU:N	2.33	0.55
1:E:845:TYR:OH	1:E:847:ASP:HB2	2.07	0.55
1:E:862:TYR:HA	1:E:885:VAL:CG1	2.37	0.55
1:E:1046:THR:O	1:E:1062:SER:HB2	2.05	0.55
1:G:379:ILE:HD11	1:G:417:GLU:OE1	2.07	0.55
1:G:525:GLU:O	1:G:528:GLU:HG2	2.05	0.55
1:G:727:LEU:HB2	1:G:739:MET:HE2	1.88	0.55
1:G:1193:ILE:HG12	1:G:1201:TRP:NE1	2.22	0.55
1:I:149:TRP:HZ3	1:I:251:LEU:HD22	1.70	0.55
1:I:246:TRP:C	1:I:247:ASP:OD1	2.50	0.55
1:I:316:GLU:O	1:I:318:LYS:CG	2.50	0.55
1:I:1046:THR:CG2	1:I:1063:PHE:CE2	2.89	0.55
1:K:564:VAL:CG1	1:K:583:GLN:HG2	2.36	0.55
1:K:609:LEU:HB3	1:K:908:LEU:HB3	1.87	0.55
1:K:678:ASP:O	1:K:679:LYS:CB	2.55	0.55
1:K:862:TYR:CZ	1:K:881:HIS:N	2.74	0.55
1:M:322:LEU:O	1:M:326:LEU:HB2	2.07	0.55
1:M:560:PHE:O	1:M:561:PRO:C	2.49	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:595:LEU:CD1	1:M:1244:LEU:HD13	2.36	0.55
1:M:597:TRP:HZ2	1:M:603:ILE:HG12	1.70	0.55
1:M:1213:PHE:HE2	1:M:1215:THR:HA	1.72	0.55
1:A:146:GLU:CG	1:C:111:ARG:HH11	2.15	0.55
1:A:379:ILE:HD11	1:A:417:GLU:OE1	2.07	0.55
1:A:1017:THR:HG21	1:A:1073:ILE:HG12	1.88	0.55
1:A:1199:ILE:HD11	1:A:1232:TYR:CZ	2.42	0.55
1:C:246:TRP:C	1:C:247:ASP:OD1	2.50	0.55
1:C:427:ASP:CB	1:C:434:ARG:O	2.55	0.55
1:C:457:HIS:CE1	1:C:493:SER:OG	2.60	0.55
1:C:678:ASP:O	1:C:679:LYS:CB	2.55	0.55
1:C:1199:ILE:HD11	1:C:1232:TYR:CZ	2.42	0.55
1:C:1232:TYR:HH	1:C:1234:THR:HB	1.72	0.55
1:E:344:GLN:HA	1:E:347:ASN:HD22	1.71	0.55
1:E:379:ILE:HD11	1:E:417:GLU:OE1	2.07	0.55
1:E:457:HIS:CE1	1:E:493:SER:OG	2.60	0.55
1:E:970:SER:OG	1:E:973:LEU:O	2.24	0.55
1:E:1125:GLY:O	1:E:1152:ARG:NH1	2.39	0.55
1:E:1199:ILE:HD11	1:E:1232:TYR:CZ	2.42	0.55
1:G:595:LEU:CD1	1:G:1244:LEU:HD13	2.36	0.55
1:G:1136:SER:HB3	1:G:1141:LEU:HB2	1.89	0.55
1:I:603:ILE:HB	1:I:1240:ILE:HG21	1.87	0.55
1:I:845:TYR:OH	1:I:847:ASP:HB2	2.07	0.55
1:K:564:VAL:CG1	1:K:583:GLN:HG3	2.35	0.55
1:K:637:LYS:CA	1:K:660:VAL:HG23	2.36	0.55
1:K:1171:GLU:CG	1:K:1172:GLY:N	2.68	0.55
1:M:457:HIS:CE1	1:M:493:SER:OG	2.60	0.55
1:M:1200:LYS:HG3	1:M:1211:GLN:CA	2.36	0.55
1:M:1247:LEU:CD1	1:M:1248:GLU:H	2.14	0.55
1:A:489:TYR:C	1:A:489:TYR:CD1	2.85	0.55
1:A:623:PHE:HD1	1:A:889:MET:HE3	1.72	0.55
1:C:143:LEU:HG	1:C:259:GLN:NE2	2.21	0.55
1:C:1193:ILE:HG12	1:C:1201:TRP:NE1	2.21	0.55
1:E:121:GLN:HA	1:E:169:ARG:HH22	1.71	0.55
1:E:636:ASP:O	1:E:637:LYS:CB	2.55	0.55
1:E:944:ARG:NE	1:E:961:GLU:O	2.39	0.55
1:E:1200:LYS:HG3	1:E:1211:GLN:CA	2.36	0.55
1:G:322:LEU:O	1:G:326:LEU:HB2	2.07	0.55
1:G:333:ASP:CB	1:G:334:PHE:CE1	2.85	0.55
1:G:560:PHE:O	1:G:561:PRO:C	2.49	0.55
1:G:1213:PHE:HE2	1:G:1215:THR:HA	1.72	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:379:ILE:HD11	1:I:417:GLU:OE1	2.07	0.55
1:I:1125:GLY:O	1:I:1152:ARG:NH1	2.39	0.55
1:I:1193:ILE:HG12	1:I:1201:TRP:NE1	2.22	0.55
1:K:727:LEU:HB2	1:K:739:MET:HE2	1.88	0.55
1:K:980:ASP:OD1	1:K:981:GLU:N	2.40	0.55
1:K:1094:SER:HA	1:K:1135:PHE:HB2	1.89	0.55
1:M:344:GLN:HA	1:M:347:ASN:HD22	1.71	0.55
1:M:489:TYR:CD1	1:M:489:TYR:C	2.85	0.55
1:M:1199:ILE:HD11	1:M:1232:TYR:CZ	2.43	0.55
1:A:143:LEU:HG	1:A:259:GLN:NE2	2.21	0.54
1:A:170:ASP:OD1	1:A:171:HIS:N	2.39	0.54
1:A:1094:SER:HA	1:A:1135:PHE:HB2	1.89	0.54
1:A:1193:ILE:HG12	1:A:1201:TRP:NE1	2.22	0.54
1:C:322:LEU:O	1:C:326:LEU:HB2	2.07	0.54
1:C:845:TYR:OH	1:C:847:ASP:HB2	2.07	0.54
1:C:1171:GLU:CG	1:C:1172:GLY:N	2.68	0.54
1:C:1182:ASP:HB3	1:C:1223:ILE:HG21	1.88	0.54
1:E:246:TRP:O	1:E:247:ASP:OD1	2.26	0.54
1:E:862:TYR:CZ	1:E:881:HIS:N	2.74	0.54
1:G:170:ASP:OD1	1:G:171:HIS:N	2.39	0.54
1:G:171:HIS:NE2	1:G:175:GLU:CG	2.66	0.54
1:G:180:GLY:HA3	1:G:237:ARG:C	2.33	0.54
1:G:457:HIS:CE1	1:G:493:SER:OG	2.60	0.54
1:G:1094:SER:HA	1:G:1135:PHE:HB2	1.89	0.54
1:G:1199:ILE:HD11	1:G:1232:TYR:CZ	2.42	0.54
1:G:1225:VAL:CG1	1:G:1229:PHE:CD1	2.89	0.54
1:I:108:SER:O	1:I:111:ARG:HG2	2.07	0.54
1:I:486:PHE:N	1:I:486:PHE:CD1	2.73	0.54
1:I:636:ASP:O	1:I:637:LYS:CB	2.55	0.54
1:I:823:LEU:HB3	1:I:833:GLY:HA3	1.90	0.54
1:K:246:TRP:O	1:K:247:ASP:OD1	2.26	0.54
1:K:427:ASP:CB	1:K:434:ARG:O	2.55	0.54
1:K:489:TYR:CD1	1:K:489:TYR:C	2.85	0.54
1:K:1199:ILE:HD11	1:K:1232:TYR:CZ	2.42	0.54
1:M:146:GLU:CB	1:M:147:PRO:HD2	2.37	0.54
1:M:419:VAL:HG22	1:M:424:LEU:O	2.06	0.54
1:M:427:ASP:CB	1:M:434:ARG:O	2.55	0.54
1:M:544:PHE:CD1	1:M:576:VAL:HG11	2.36	0.54
1:M:636:ASP:O	1:M:637:LYS:CB	2.55	0.54
1:M:845:TYR:OH	1:M:847:ASP:HB2	2.07	0.54
1:M:1151:ILE:CG1	1:M:1167:PRO:HG2	2.36	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:1182:ASP:HB3	1:M:1223:ILE:HG21	1.88	0.54
1:A:597:TRP:HE1	1:A:1242:TYR:HA	1.73	0.54
1:A:1176:HIS:CB	1:A:1218:THR:HB	2.36	0.54
1:C:363:ALA:O	1:C:366:GLU:CB	2.55	0.54
1:C:595:LEU:CD1	1:C:1244:LEU:HD13	2.36	0.54
1:C:623:PHE:HD1	1:C:889:MET:HE3	1.72	0.54
1:E:180:GLY:HA3	1:E:237:ARG:C	2.33	0.54
1:E:1136:SER:HB3	1:E:1141:LEU:HB2	1.89	0.54
1:E:1193:ILE:HG12	1:E:1201:TRP:NE1	2.21	0.54
1:G:246:TRP:O	1:G:247:ASP:OD1	2.26	0.54
1:G:636:ASP:O	1:G:637:LYS:CB	2.55	0.54
1:G:844:GLN:OE1	1:G:884:TRP:NE1	2.41	0.54
1:I:180:GLY:HA3	1:I:237:ARG:C	2.33	0.54
1:I:245:VAL:C	1:I:246:TRP:CD1	2.86	0.54
1:I:1136:SER:HB3	1:I:1141:LEU:HB2	1.89	0.54
1:K:347:ASN:C	1:K:348:LYS:HG2	2.31	0.54
1:K:739:MET:HE1	1:K:758:LEU:HD23	1.89	0.54
1:K:823:LEU:HB3	1:K:833:GLY:HA3	1.90	0.54
1:K:1046:THR:CG2	1:K:1063:PHE:CD2	2.91	0.54
1:M:246:TRP:O	1:M:247:ASP:OD1	2.26	0.54
1:M:739:MET:HE1	1:M:758:LEU:HD23	1.89	0.54
1:A:363:ALA:O	1:A:366:GLU:CB	2.55	0.54
1:A:1182:ASP:HB3	1:A:1223:ILE:HG21	1.88	0.54
1:A:1201:TRP:CE3	1:A:1210:SER:CB	2.87	0.54
1:C:147:PRO:HG3	1:E:121:GLN:OE1	2.06	0.54
1:C:456:LEU:O	1:C:459:LYS:N	2.38	0.54
1:E:1220:LEU:HA	1:E:1236:ASP:HB3	1.88	0.54
1:G:231:MET:SD	1:G:258:CYS:SG	2.97	0.54
1:G:597:TRP:HE1	1:G:1242:TYR:HA	1.73	0.54
1:G:1017:THR:HG21	1:G:1073:ILE:HG12	1.88	0.54
1:G:1046:THR:O	1:G:1062:SER:HB2	2.05	0.54
1:G:1217:GLY:O	1:G:1218:THR:CG2	2.54	0.54
1:G:1220:LEU:HA	1:G:1236:ASP:HB3	1.88	0.54
1:I:121:GLN:HA	1:I:169:ARG:HH22	1.71	0.54
1:I:560:PHE:O	1:I:561:PRO:C	2.49	0.54
1:I:678:ASP:O	1:I:679:LYS:CB	2.55	0.54
1:I:1017:THR:HG21	1:I:1073:ILE:HG12	1.88	0.54
1:I:1094:SER:HA	1:I:1135:PHE:HB2	1.89	0.54
1:I:1199:ILE:HD11	1:I:1232:TYR:CZ	2.42	0.54
1:K:245:VAL:C	1:K:246:TRP:CD1	2.86	0.54
1:K:862:TYR:HA	1:K:885:VAL:CG1	2.37	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:1220:LEU:HA	1:K:1236:ASP:HB3	1.88	0.54
1:M:121:GLN:HA	1:M:169:ARG:HH22	1.71	0.54
1:M:143:LEU:HG	1:M:259:GLN:NE2	2.21	0.54
1:M:862:TYR:HA	1:M:885:VAL:CG1	2.37	0.54
1:M:1017:THR:HG21	1:M:1073:ILE:HG12	1.88	0.54
1:A:246:TRP:C	1:A:247:ASP:OD1	2.50	0.54
1:A:427:ASP:CB	1:A:434:ARG:O	2.55	0.54
1:A:457:HIS:CE1	1:A:493:SER:OG	2.60	0.54
1:A:1092:ASP:OD2	1:A:1134:ALA:HA	2.07	0.54
1:A:1225:VAL:CG1	1:A:1229:PHE:CD1	2.89	0.54
5:B:201:HEM:HMC1	5:B:201:HEM:CBC	2.28	0.54
1:C:144:LYS:HG2	1:C:145:GLY:N	2.23	0.54
1:C:180:GLY:HA3	1:C:237:ARG:C	2.33	0.54
1:C:637:LYS:CA	1:C:660:VAL:HG23	2.36	0.54
1:C:1146:ASP:HB2	1:C:1150:GLU:HB3	1.90	0.54
1:E:452:GLN:HB3	1:E:456:LEU:HD11	1.89	0.54
1:G:108:SER:O	1:G:111:ARG:HG2	2.07	0.54
1:G:317:CYS:SG	1:G:324:VAL:CG2	2.96	0.54
1:G:862:TYR:CZ	1:G:881:HIS:N	2.74	0.54
1:G:1092:ASP:OD2	1:G:1134:ALA:HA	2.07	0.54
1:G:1233:VAL:HG11	1:G:1243:ILE:CG1	2.28	0.54
1:I:246:TRP:O	1:I:247:ASP:OD1	2.26	0.54
1:I:862:TYR:CZ	1:I:881:HIS:N	2.74	0.54
1:I:1067:VAL:N	1:I:1081:PHE:O	2.40	0.54
1:I:1220:LEU:HA	1:I:1236:ASP:HB3	1.88	0.54
1:K:862:TYR:CE1	1:K:881:HIS:HB3	2.38	0.54
1:K:1136:SER:HB3	1:K:1141:LEU:HB2	1.89	0.54
1:M:245:VAL:C	1:M:246:TRP:CD1	2.86	0.54
1:M:1046:THR:CG2	1:M:1063:PHE:CD2	2.91	0.54
1:M:1151:ILE:H	1:M:1167:PRO:CD	2.19	0.54
1:A:245:VAL:C	1:A:246:TRP:CD1	2.86	0.54
1:A:739:MET:HE1	1:A:758:LEU:HD23	1.89	0.54
1:A:844:GLN:OE1	1:A:884:TRP:NE1	2.41	0.54
1:E:231:MET:SD	1:E:258:CYS:SG	2.97	0.54
1:E:485:ASN:HD22	1:E:485:ASN:N	2.06	0.54
1:E:513:LYS:CD	1:E:522:LEU:HG	2.36	0.54
1:E:597:TRP:HZ2	1:E:603:ILE:HG12	1.70	0.54
1:E:844:GLN:OE1	1:E:884:TRP:NE1	2.41	0.54
1:E:1201:TRP:HE3	1:E:1210:SER:CB	2.16	0.54
1:G:457:HIS:CE1	1:G:493:SER:HG	2.24	0.54
1:G:557:ARG:NH2	1:G:1174:ALA:HB2	2.23	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:564:VAL:CG1	1:G:583:GLN:HG2	2.36	0.54
1:G:823:LEU:HB3	1:G:833:GLY:HA3	1.90	0.54
1:I:146:GLU:CB	1:I:147:PRO:HD2	2.37	0.54
1:I:485:ASN:N	1:I:485:ASN:HD22	2.06	0.54
1:I:520:ALA:CB	1:I:647:GLY:O	2.56	0.54
1:I:551:ASN:O	1:I:555:LEU:HB3	2.08	0.54
1:I:1247:LEU:CD1	1:I:1248:GLU:H	2.13	0.54
1:K:180:GLY:HA3	1:K:237:ARG:C	2.33	0.54
1:K:344:GLN:HA	1:K:347:ASN:HD22	1.71	0.54
1:K:639:LEU:HD23	1:K:653:ILE:HD13	1.90	0.54
1:K:844:GLN:OE1	1:K:884:TRP:NE1	2.41	0.54
1:K:845:TYR:OH	1:K:847:ASP:HB2	2.07	0.54
1:M:363:ALA:O	1:M:366:GLU:CB	2.55	0.54
1:M:485:ASN:HD22	1:M:485:ASN:N	2.06	0.54
1:M:570:GLU:HA	1:M:570:GLU:OE2	2.08	0.54
1:M:823:LEU:HB3	1:M:833:GLY:HA3	1.90	0.54
1:M:862:TYR:CE1	1:M:881:HIS:HB3	2.38	0.54
1:A:1146:ASP:HB2	1:A:1150:GLU:HB3	1.90	0.54
1:C:246:TRP:O	1:C:247:ASP:OD1	2.26	0.54
1:C:359:TYR:CD1	1:C:359:TYR:C	2.85	0.54
1:C:636:ASP:O	1:C:637:LYS:CB	2.55	0.54
1:C:844:GLN:OE1	1:C:884:TRP:NE1	2.41	0.54
1:E:144:LYS:HG2	1:E:145:GLY:N	2.23	0.54
1:E:623:PHE:HD1	1:E:889:MET:HE3	1.72	0.54
1:E:769:LEU:HD13	1:E:826:ILE:HD12	1.89	0.54
1:E:1151:ILE:H	1:E:1167:PRO:CD	2.19	0.54
1:G:106:ILE:HG22	1:G:107:THR:O	2.08	0.54
1:G:551:ASN:O	1:G:555:LEU:HB3	2.08	0.54
1:I:393:VAL:HG11	1:I:486:PHE:CE2	2.41	0.54
1:I:637:LYS:CA	1:I:660:VAL:HG23	2.36	0.54
1:I:739:MET:HE1	1:I:758:LEU:HD23	1.89	0.54
1:I:862:TYR:HA	1:I:885:VAL:CG1	2.37	0.54
1:I:1046:THR:CG2	1:I:1063:PHE:CD2	2.91	0.54
1:I:1233:VAL:CB	1:I:1242:TYR:O	2.54	0.54
1:K:317:CYS:SG	1:K:324:VAL:CG2	2.96	0.54
1:K:363:ALA:O	1:K:366:GLU:CB	2.55	0.54
1:K:520:ALA:CB	1:K:647:GLY:O	2.56	0.54
1:K:570:GLU:HA	1:K:570:GLU:OE2	2.08	0.54
1:M:457:HIS:CE1	1:M:493:SER:HG	2.25	0.54
1:M:928:VAL:CG1	1:M:937:VAL:HA	2.28	0.54
1:A:246:TRP:O	1:A:247:ASP:OD1	2.26	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:344:GLN:HA	1:A:347:ASN:HD22	1.71	0.54
1:A:557:ARG:NH2	1:A:1174:ALA:HB2	2.23	0.54
1:A:1213:PHE:HE2	1:A:1215:THR:HA	1.72	0.54
1:A:1220:LEU:CD2	1:A:1234:THR:HG21	2.38	0.54
1:C:143:LEU:H	1:C:143:LEU:CD2	2.21	0.54
1:C:513:LYS:CD	1:C:522:LEU:HG	2.36	0.54
1:C:557:ARG:NH2	1:C:1174:ALA:HB2	2.23	0.54
1:C:769:LEU:HD13	1:C:826:ILE:HD12	1.89	0.54
1:C:1136:SER:HB3	1:C:1141:LEU:HB2	1.89	0.54
1:E:427:ASP:CB	1:E:434:ARG:O	2.55	0.54
1:E:557:ARG:NH2	1:E:1174:ALA:HB2	2.23	0.54
1:E:597:TRP:HE1	1:E:1242:TYR:HA	1.73	0.54
1:E:678:ASP:O	1:E:679:LYS:CB	2.55	0.54
1:E:882:LEU:CD2	1:E:882:LEU:N	2.39	0.54
1:E:1067:VAL:N	1:E:1081:PHE:O	2.40	0.54
1:E:1146:ASP:HB2	1:E:1150:GLU:HB3	1.90	0.54
1:G:121:GLN:HA	1:G:169:ARG:HH22	1.71	0.54
1:G:452:GLN:HB3	1:G:456:LEU:HD11	1.89	0.54
1:G:1200:LYS:HD3	1:G:1202:TRP:NE1	2.20	0.54
1:I:363:ALA:O	1:I:366:GLU:CB	2.55	0.54
1:I:456:LEU:O	1:I:459:LYS:N	2.38	0.54
1:I:862:TYR:CE2	1:I:881:HIS:HB2	2.25	0.54
1:K:557:ARG:NH2	1:K:1174:ALA:HB2	2.23	0.54
1:K:984:ALA:CA	1:K:999:ARG:O	2.47	0.54
1:M:143:LEU:H	1:M:143:LEU:CD2	2.21	0.54
1:M:180:GLY:HA3	1:M:237:ARG:C	2.33	0.54
1:M:379:ILE:HD11	1:M:417:GLU:OE1	2.07	0.54
1:M:1136:SER:HB3	1:M:1141:LEU:HB2	1.89	0.54
1:A:180:GLY:HA3	1:A:237:ARG:C	2.33	0.54
1:A:570:GLU:HA	1:A:570:GLU:OE2	2.08	0.54
1:A:862:TYR:HA	1:A:885:VAL:CG1	2.37	0.54
1:C:452:GLN:HB3	1:C:456:LEU:HD11	1.89	0.54
1:C:980:ASP:OD1	1:C:981:GLU:N	2.40	0.54
1:C:1046:THR:CG2	1:C:1063:PHE:CD2	2.91	0.54
1:C:1220:LEU:CD2	1:C:1234:THR:HG21	2.38	0.54
1:E:322:LEU:O	1:E:326:LEU:HB2	2.07	0.54
1:E:363:ALA:O	1:E:366:GLU:CB	2.55	0.54
1:E:526:PHE:O	1:E:529:TYR:HB3	2.08	0.54
1:E:544:PHE:HE1	1:E:576:VAL:CG1	1.88	0.54
1:E:1017:THR:HG21	1:E:1073:ILE:HG12	1.88	0.54
1:E:1213:PHE:HE2	1:E:1215:THR:HA	1.72	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:862:TYR:HA	1:G:885:VAL:CG1	2.37	0.54
1:G:1046:THR:CG2	1:G:1063:PHE:CD2	2.91	0.54
1:I:106:ILE:HG22	1:I:107:THR:O	2.08	0.54
1:I:727:LEU:HB2	1:I:739:MET:HE2	1.88	0.54
1:K:144:LYS:HG2	1:K:145:GLY:N	2.23	0.54
1:K:359:TYR:CD1	1:K:359:TYR:C	2.86	0.54
1:K:1220:LEU:CD2	1:K:1234:THR:HG21	2.38	0.54
1:A:108:SER:O	1:A:111:ARG:HG2	2.07	0.54
1:A:400:LEU:O	1:A:404:TRP:HE3	1.91	0.54
1:A:567:GLY:O	1:A:569:CYS:N	2.41	0.54
1:A:1069:VAL:HB	1:A:1079:LYS:HB2	1.89	0.54
1:A:1136:SER:HB3	1:A:1141:LEU:HB2	1.89	0.54
1:C:595:LEU:HD22	1:C:1244:LEU:HD12	1.78	0.54
1:C:739:MET:HE1	1:C:758:LEU:HD23	1.89	0.54
1:C:862:TYR:HA	1:C:885:VAL:CG1	2.37	0.54
1:C:1017:THR:HG21	1:C:1073:ILE:HG12	1.88	0.54
1:C:1201:TRP:HE3	1:C:1210:SER:CB	2.16	0.54
1:E:1069:VAL:HB	1:E:1079:LYS:HB2	1.89	0.54
2:F:18:HIS:CE1	5:F:201:HEM:ND	2.76	0.54
1:G:245:VAL:C	1:G:246:TRP:CD1	2.86	0.54
1:G:347:ASN:C	1:G:348:LYS:HG2	2.31	0.54
1:G:363:ALA:O	1:G:366:GLU:CB	2.55	0.54
1:I:597:TRP:HE1	1:I:1242:TYR:HA	1.73	0.54
1:I:597:TRP:HA	1:I:1243:ILE:O	2.08	0.54
1:I:639:LEU:HD23	1:I:653:ILE:HD13	1.90	0.54
1:I:1092:ASP:OD2	1:I:1134:ALA:HA	2.07	0.54
1:K:714:LEU:HB3	1:K:730:LEU:HB2	1.90	0.54
1:K:757:LEU:HB3	1:K:769:LEU:HD11	1.90	0.54
1:K:1017:THR:HG21	1:K:1073:ILE:HG12	1.88	0.54
1:K:1193:ILE:HG12	1:K:1201:TRP:NE1	2.22	0.54
1:M:520:ALA:CB	1:M:647:GLY:O	2.56	0.54
1:M:557:ARG:NH2	1:M:1174:ALA:HB2	2.23	0.54
1:M:1092:ASP:OD2	1:M:1134:ALA:HA	2.07	0.54
1:M:1193:ILE:HG12	1:M:1201:TRP:NE1	2.22	0.54
1:M:1212:THR:CG2	1:M:1213:PHE:H	2.12	0.54
2:B:18:HIS:CE1	5:B:201:HEM:ND	2.76	0.54
1:C:316:GLU:O	1:C:318:LYS:CG	2.50	0.54
1:C:520:ALA:CB	1:C:647:GLY:O	2.56	0.54
1:C:570:GLU:HA	1:C:570:GLU:OE2	2.08	0.54
1:E:143:LEU:H	1:E:143:LEU:CD2	2.21	0.54
1:E:333:ASP:CB	1:E:334:PHE:CE1	2.85	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:862:TYR:CE2	1:E:881:HIS:HB2	2.25	0.54
1:E:1213:PHE:HE2	1:E:1215:THR:HG22	1.69	0.54
1:G:146:GLU:CB	1:G:147:PRO:HD2	2.37	0.54
1:G:179:PRO:HD3	1:G:237:ARG:NH1	2.15	0.54
1:G:582:LEU:HD23	1:G:582:LEU:C	2.33	0.54
1:G:1069:VAL:HB	1:G:1079:LYS:HB2	1.89	0.54
1:G:1233:VAL:CB	1:G:1242:TYR:O	2.54	0.54
1:I:143:LEU:H	1:I:143:LEU:CD2	2.21	0.54
1:I:144:LYS:HG2	1:I:145:GLY:N	2.23	0.54
1:I:427:ASP:CB	1:I:434:ARG:O	2.55	0.54
1:I:452:GLN:HB3	1:I:456:LEU:HD11	1.90	0.54
1:I:557:ARG:NH2	1:I:1174:ALA:HB2	2.23	0.54
1:I:570:GLU:HA	1:I:570:GLU:OE2	2.08	0.54
1:I:714:LEU:HB3	1:I:730:LEU:HB2	1.90	0.54
1:I:757:LEU:HB3	1:I:769:LEU:HD11	1.90	0.54
1:K:146:GLU:CB	1:K:147:PRO:HD2	2.37	0.54
1:K:582:LEU:HD23	1:K:582:LEU:C	2.33	0.54
1:K:597:TRP:CH2	1:K:603:ILE:HG12	2.43	0.54
1:M:400:LEU:O	1:M:404:TRP:HE3	1.91	0.54
1:M:623:PHE:HD1	1:M:889:MET:HE3	1.72	0.54
1:M:714:LEU:HB3	1:M:730:LEU:HB2	1.90	0.54
1:M:1067:VAL:N	1:M:1081:PHE:O	2.40	0.54
1:M:1217:GLY:O	1:M:1218:THR:CG2	2.54	0.54
1:M:1239:GLY:O	1:M:1240:ILE:HB	2.08	0.54
1:A:143:LEU:H	1:A:143:LEU:CD2	2.21	0.53
1:A:582:LEU:HD23	1:A:582:LEU:C	2.33	0.53
1:C:106:ILE:HG22	1:C:107:THR:O	2.08	0.53
1:C:485:ASN:HD22	1:C:485:ASN:N	2.06	0.53
1:E:229:ILE:HG22	1:E:233:ARG:CD	2.28	0.53
1:E:245:VAL:C	1:E:246:TRP:CD1	2.86	0.53
1:E:431:LYS:HZ3	1:G:336:ASN:CB	2.12	0.53
1:E:554:LEU:CD1	1:E:1214:TYR:CE1	2.91	0.53
1:E:597:TRP:HA	1:E:1243:ILE:O	2.08	0.53
1:E:1046:THR:CG2	1:E:1063:PHE:CD2	2.91	0.53
1:G:520:ALA:CB	1:G:647:GLY:O	2.56	0.53
1:G:739:MET:HE1	1:G:758:LEU:HD23	1.89	0.53
1:I:902:ASP:HB3	2:J:72:LYS:NZ	2.24	0.53
1:K:452:GLN:HB3	1:K:456:LEU:HD11	1.90	0.53
1:K:551:ASN:O	1:K:555:LEU:HB3	2.08	0.53
1:K:769:LEU:HD13	1:K:826:ILE:HD12	1.89	0.53
1:M:844:GLN:OE1	1:M:884:TRP:NE1	2.41	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:1069:VAL:HB	1:M:1079:LYS:HB2	1.90	0.53
1:A:144:LYS:HG2	1:A:145:GLY:N	2.23	0.53
1:A:298:PHE:CZ	1:A:325:SER:HA	2.42	0.53
1:A:452:GLN:HB3	1:A:456:LEU:HD11	1.89	0.53
1:A:714:LEU:HB3	1:A:730:LEU:HB2	1.90	0.53
1:A:778:ARG:HG2	1:A:779:LYS:HG3	1.91	0.53
1:A:1046:THR:CG2	1:A:1063:PHE:CD2	2.91	0.53
1:C:121:GLN:HA	1:C:169:ARG:HH22	1.71	0.53
1:C:862:TYR:CE1	1:C:885:VAL:HG12	2.21	0.53
1:E:486:PHE:N	1:E:486:PHE:CD1	2.73	0.53
1:E:778:ARG:HG2	1:E:779:LYS:HG3	1.91	0.53
1:E:1247:LEU:CD1	1:E:1248:GLU:H	2.13	0.53
1:G:144:LYS:HG2	1:G:145:GLY:N	2.23	0.53
1:G:862:TYR:CE1	1:G:885:VAL:HG12	2.21	0.53
1:G:902:ASP:HB3	2:H:72:LYS:NZ	2.24	0.53
1:I:844:GLN:OE1	1:I:884:TRP:NE1	2.41	0.53
1:K:106:ILE:HG22	1:K:107:THR:O	2.08	0.53
1:K:554:LEU:CD1	1:K:1214:TYR:CE1	2.91	0.53
1:K:1069:VAL:HB	1:K:1079:LYS:HB2	1.90	0.53
1:K:1239:GLY:O	1:K:1240:ILE:HB	2.08	0.53
1:A:485:ASN:N	1:A:485:ASN:HD22	2.06	0.53
1:A:526:PHE:O	1:A:529:TYR:HB3	2.08	0.53
1:A:1239:GLY:O	1:A:1240:ILE:HB	2.08	0.53
1:C:149:TRP:HZ3	1:C:251:LEU:HD22	1.70	0.53
1:C:400:LEU:O	1:C:404:TRP:HE3	1.91	0.53
1:C:489:TYR:CD1	1:C:489:TYR:C	2.85	0.53
1:C:554:LEU:CD1	1:C:1214:TYR:CE1	2.91	0.53
1:C:1201:TRP:CE3	1:C:1210:SER:CB	2.87	0.53
1:E:520:ALA:CB	1:E:647:GLY:O	2.56	0.53
1:E:551:ASN:O	1:E:555:LEU:HB3	2.08	0.53
1:E:570:GLU:HA	1:E:570:GLU:OE2	2.08	0.53
1:E:1201:TRP:CE3	1:E:1210:SER:CB	2.87	0.53
1:G:427:ASP:CB	1:G:434:ARG:O	2.55	0.53
1:G:554:LEU:CD1	1:G:1214:TYR:CE1	2.91	0.53
1:G:678:ASP:O	1:G:679:LYS:CB	2.55	0.53
1:G:1146:ASP:HB2	1:G:1150:GLU:HB3	1.90	0.53
1:I:554:LEU:CD1	1:I:1214:TYR:CE1	2.91	0.53
1:I:1213:PHE:HE2	1:I:1215:THR:HA	1.71	0.53
1:K:485:ASN:HD22	1:K:485:ASN:N	2.06	0.53
1:K:597:TRP:HE1	1:K:1242:TYR:HA	1.73	0.53
1:K:747:ASN:ND2	1:K:801:VAL:O	2.38	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:452:GLN:HB3	1:M:456:LEU:HD11	1.89	0.53
1:M:639:LEU:HD23	1:M:653:ILE:HD13	1.90	0.53
1:M:778:ARG:HG2	1:M:779:LYS:HG3	1.91	0.53
1:M:1213:PHE:HE2	1:M:1215:THR:HG22	1.69	0.53
1:M:1220:LEU:CD2	1:M:1234:THR:HG21	2.38	0.53
1:A:823:LEU:HB3	1:A:833:GLY:HA3	1.90	0.53
1:C:544:PHE:CD1	1:C:576:VAL:HG11	2.36	0.53
1:C:902:ASP:HB3	2:D:72:LYS:NZ	2.24	0.53
1:C:1092:ASP:OD2	1:C:1134:ALA:HA	2.07	0.53
1:E:823:LEU:HB3	1:E:833:GLY:HA3	1.90	0.53
1:E:1092:ASP:OD2	1:E:1134:ALA:HA	2.07	0.53
1:E:1233:VAL:HA	1:E:1242:TYR:O	2.09	0.53
1:G:637:LYS:CA	1:G:660:VAL:HG23	2.36	0.53
1:G:769:LEU:HD13	1:G:826:ILE:HD12	1.89	0.53
1:I:400:LEU:O	1:I:404:TRP:HE3	1.91	0.53
1:I:639:LEU:N	1:I:653:ILE:CG2	2.63	0.53
1:I:769:LEU:HD13	1:I:826:ILE:HD12	1.89	0.53
1:I:1069:VAL:HB	1:I:1079:LYS:HB2	1.89	0.53
1:K:379:ILE:HD11	1:K:417:GLU:OE1	2.07	0.53
1:K:431:LYS:HZ2	1:M:336:ASN:HB3	1.64	0.53
1:K:526:PHE:O	1:K:529:TYR:HB3	2.08	0.53
1:M:597:TRP:HA	1:M:1243:ILE:O	2.08	0.53
1:M:1029:VAL:HG11	1:M:1073:ILE:HA	1.90	0.53
1:A:317:CYS:SG	1:A:324:VAL:CG2	2.96	0.53
1:A:703:ASN:ND2	1:A:746:VAL:O	2.42	0.53
1:A:884:TRP:CH2	2:B:81:ILE:HD11	2.44	0.53
1:A:1201:TRP:HE3	1:A:1210:SER:CB	2.15	0.53
1:A:1247:LEU:CD1	1:A:1248:GLU:H	2.13	0.53
1:C:597:TRP:HE1	1:C:1242:TYR:HA	1.73	0.53
1:C:757:LEU:HB3	1:C:769:LEU:HD11	1.90	0.53
1:C:1233:VAL:HA	1:C:1242:TYR:O	2.09	0.53
1:E:390:GLN:OE1	1:E:489:TYR:HE2	1.92	0.53
1:E:457:HIS:CE1	1:E:493:SER:HG	2.27	0.53
1:E:639:LEU:HD23	1:E:653:ILE:HD13	1.90	0.53
1:E:739:MET:HE1	1:E:758:LEU:HD23	1.89	0.53
1:G:703:ASN:ND2	1:G:746:VAL:O	2.42	0.53
1:G:714:LEU:HB3	1:G:730:LEU:HB2	1.90	0.53
1:G:1201:TRP:CE3	1:G:1210:SER:CB	2.87	0.53
1:I:317:CYS:SG	1:I:324:VAL:CG2	2.96	0.53
1:I:526:PHE:O	1:I:529:TYR:HB3	2.08	0.53
1:I:928:VAL:CG2	1:I:1224:HIS:CG	2.92	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:1220:LEU:CD2	1:I:1234:THR:HG21	2.38	0.53
1:K:400:LEU:O	1:K:404:TRP:HE3	1.91	0.53
1:K:544:PHE:HD1	1:K:576:VAL:CG1	2.17	0.53
1:K:560:PHE:O	1:K:561:PRO:C	2.49	0.53
1:K:928:VAL:CG2	1:K:1224:HIS:CG	2.92	0.53
1:K:986:GLU:HA	1:K:997:GLN:O	2.09	0.53
1:M:359:TYR:CD1	1:M:359:TYR:C	2.85	0.53
1:M:551:ASN:O	1:M:555:LEU:HB3	2.08	0.53
1:M:769:LEU:HD13	1:M:826:ILE:HD12	1.89	0.53
1:A:106:ILE:HG22	1:A:107:THR:O	2.08	0.53
1:A:359:TYR:CD1	1:A:359:TYR:C	2.86	0.53
1:A:520:ALA:CB	1:A:647:GLY:O	2.56	0.53
1:A:769:LEU:HD13	1:A:826:ILE:HD12	1.89	0.53
1:A:1226:SER:OG	1:A:1227:PRO:HD2	2.09	0.53
1:C:229:ILE:HG22	1:C:233:ARG:CD	2.28	0.53
1:C:245:VAL:C	1:C:246:TRP:CD1	2.86	0.53
1:C:390:GLN:OE1	1:C:489:TYR:HE2	1.92	0.53
1:C:597:TRP:HA	1:C:1243:ILE:O	2.08	0.53
1:C:714:LEU:HB3	1:C:730:LEU:HB2	1.90	0.53
1:C:986:GLU:HA	1:C:997:GLN:O	2.09	0.53
1:C:1069:VAL:HB	1:C:1079:LYS:HB2	1.89	0.53
1:E:146:GLU:CB	1:E:147:PRO:HD2	2.37	0.53
1:G:778:ARG:HG2	1:G:779:LYS:HG3	1.91	0.53
1:G:1233:VAL:HA	1:G:1242:TYR:O	2.09	0.53
1:I:980:ASP:OD1	1:I:981:GLU:N	2.40	0.53
1:K:456:LEU:O	1:K:459:LYS:N	2.38	0.53
1:K:1018:LEU:HB3	1:K:1030:TRP:O	2.08	0.53
1:K:1029:VAL:HG11	1:K:1073:ILE:HA	1.90	0.53
1:M:554:LEU:CD1	1:M:1214:TYR:CE1	2.91	0.53
1:M:582:LEU:HD23	1:M:582:LEU:C	2.33	0.53
1:M:757:LEU:HB3	1:M:769:LEU:HD11	1.90	0.53
1:M:884:TRP:CH2	2:N:81:ILE:HD11	2.44	0.53
1:A:597:TRP:HA	1:A:1243:ILE:O	2.08	0.53
1:C:778:ARG:HG2	1:C:779:LYS:HG3	1.91	0.53
1:C:884:TRP:CH2	2:D:81:ILE:HD11	2.44	0.53
1:E:106:ILE:HG22	1:E:107:THR:O	2.08	0.53
1:E:296:SER:O	1:E:300:ASN:N	2.42	0.53
1:E:317:CYS:SG	1:E:324:VAL:CG2	2.96	0.53
1:G:757:LEU:HB3	1:G:769:LEU:HD11	1.90	0.53
1:G:1220:LEU:CD2	1:G:1234:THR:HG21	2.38	0.53
1:I:390:GLN:OE1	1:I:489:TYR:HE2	1.92	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:489:TYR:C	1:I:489:TYR:CD1	2.85	0.53
1:I:1018:LEU:HB3	1:I:1030:TRP:O	2.08	0.53
1:K:853:HIS:O	1:K:869:THR:N	2.38	0.53
1:M:317:CYS:SG	1:M:324:VAL:CG2	2.96	0.53
1:M:390:GLN:OE1	1:M:489:TYR:HE2	1.92	0.53
1:M:526:PHE:O	1:M:529:TYR:HB3	2.08	0.53
1:M:595:LEU:CD2	1:M:1244:LEU:CD1	2.48	0.53
1:M:597:TRP:HE1	1:M:1242:TYR:HA	1.73	0.53
1:M:1176:HIS:CB	1:M:1218:THR:HB	2.36	0.53
2:N:18:HIS:CE1	5:N:201:HEM:ND	2.76	0.53
1:A:457:HIS:CE1	1:A:493:SER:HG	2.27	0.53
1:A:489:TYR:HD1	1:A:489:TYR:C	2.16	0.53
1:A:513:LYS:CD	1:A:522:LEU:HG	2.36	0.53
1:A:554:LEU:CD1	1:A:1214:TYR:CE1	2.91	0.53
1:C:296:SER:O	1:C:300:ASN:N	2.42	0.53
1:C:526:PHE:O	1:C:529:TYR:HB3	2.08	0.53
1:E:862:TYR:CE1	1:E:885:VAL:HG12	2.21	0.53
1:E:1220:LEU:CD2	1:E:1234:THR:HG21	2.38	0.53
1:G:390:GLN:OE1	1:G:489:TYR:HE2	1.92	0.53
1:G:485:ASN:HD22	1:G:485:ASN:N	2.06	0.53
1:G:597:TRP:HA	1:G:1243:ILE:O	2.08	0.53
1:G:862:TYR:HD1	1:G:885:VAL:H	1.56	0.53
1:G:1018:LEU:HB3	1:G:1030:TRP:O	2.08	0.53
1:G:1151:ILE:H	1:G:1167:PRO:CD	2.19	0.53
1:I:146:GLU:HG2	1:K:111:ARG:NH1	2.19	0.53
1:I:926:VAL:CG1	1:I:938:LEU:O	2.57	0.53
1:I:1226:SER:OG	1:I:1227:PRO:HD2	2.09	0.53
1:K:703:ASN:ND2	1:K:746:VAL:O	2.42	0.53
1:K:778:ARG:HG2	1:K:779:LYS:HG3	1.91	0.53
1:K:884:TRP:CH2	2:L:81:ILE:HD11	2.44	0.53
1:K:1217:GLY:C	1:K:1218:THR:CG2	2.76	0.53
1:M:457:HIS:NE2	1:M:493:SER:CB	2.72	0.53
1:M:597:TRP:CH2	1:M:603:ILE:HG12	2.43	0.53
1:A:390:GLN:OE1	1:A:489:TYR:HE2	1.92	0.53
1:A:639:LEU:N	1:A:653:ILE:CG2	2.63	0.53
1:A:1026:GLU:HG2	1:A:1041:ARG:HA	1.91	0.53
1:A:1029:VAL:HG11	1:A:1073:ILE:HA	1.90	0.53
1:A:1240:ILE:HG22	1:A:1242:TYR:CD1	2.44	0.53
1:C:567:GLY:O	1:C:569:CYS:N	2.41	0.53
1:C:703:ASN:ND2	1:C:746:VAL:O	2.42	0.53
1:E:108:SER:O	1:E:111:ARG:HG2	2.07	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:400:LEU:O	1:E:404:TRP:HE3	1.91	0.53
1:E:582:LEU:HD23	1:E:582:LEU:C	2.33	0.53
1:E:902:ASP:HB3	2:F:72:LYS:NZ	2.24	0.53
1:E:1029:VAL:HG11	1:E:1073:ILE:HA	1.90	0.53
1:E:1217:GLY:O	1:E:1218:THR:CG2	2.54	0.53
1:G:137:GLN:NE2	1:G:173:LEU:HB3	2.24	0.53
1:G:143:LEU:H	1:G:143:LEU:CD2	2.21	0.53
1:G:986:GLU:HA	1:G:997:GLN:O	2.09	0.53
1:G:1200:LYS:CD	1:G:1202:TRP:CE2	2.81	0.53
1:G:1226:SER:OG	1:G:1227:PRO:HD2	2.09	0.53
1:G:1247:LEU:CD1	1:G:1248:GLU:H	2.14	0.53
1:I:1233:VAL:HA	1:I:1242:TYR:O	2.09	0.53
1:K:143:LEU:H	1:K:143:LEU:CD2	2.21	0.53
1:K:597:TRP:HA	1:K:1243:ILE:O	2.08	0.53
1:K:1151:ILE:H	1:K:1167:PRO:CD	2.19	0.53
1:K:1212:THR:CG2	1:K:1213:PHE:H	2.12	0.53
1:K:1240:ILE:HG22	1:K:1242:TYR:CD1	2.44	0.53
1:M:106:ILE:HG22	1:M:107:THR:O	2.08	0.53
1:M:144:LYS:HG2	1:M:145:GLY:N	2.23	0.53
1:M:928:VAL:CG2	1:M:1224:HIS:CG	2.92	0.53
1:M:986:GLU:HA	1:M:997:GLN:O	2.09	0.53
1:M:1146:ASP:HB2	1:M:1150:GLU:HB3	1.90	0.53
1:A:496:MET:HA	1:A:496:MET:CE	2.31	0.53
1:A:928:VAL:CG1	1:A:937:VAL:HA	2.28	0.53
1:C:317:CYS:SG	1:C:324:VAL:CG2	2.96	0.53
1:C:419:VAL:HG11	1:C:426:CYS:HG	1.70	0.53
1:C:525:GLU:O	1:C:528:GLU:HG2	2.05	0.53
1:E:489:TYR:HD1	1:E:489:TYR:C	2.16	0.53
1:E:637:LYS:CA	1:E:660:VAL:HG23	2.36	0.53
1:G:489:TYR:CD1	1:G:489:TYR:C	2.85	0.53
1:G:526:PHE:O	1:G:529:TYR:HB3	2.08	0.53
1:G:884:TRP:CH2	2:H:81:ILE:HD11	2.44	0.53
1:I:171:HIS:NE2	1:I:175:GLU:CG	2.66	0.53
1:I:229:ILE:HG22	1:I:233:ARG:CD	2.28	0.53
1:I:778:ARG:HG2	1:I:779:LYS:HG3	1.91	0.53
1:I:1146:ASP:HB2	1:I:1150:GLU:HB3	1.90	0.53
1:K:457:HIS:CE1	1:K:493:SER:HG	2.27	0.53
1:M:489:TYR:HD1	1:M:489:TYR:C	2.16	0.53
1:M:1240:ILE:HG22	1:M:1242:TYR:CD1	2.44	0.53
1:A:137:GLN:NE2	1:A:173:LEU:HB3	2.24	0.52
1:A:456:LEU:O	1:A:459:LYS:N	2.38	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:551:ASN:O	1:A:555:LEU:HB3	2.08	0.52
1:A:757:LEU:HB3	1:A:769:LEU:HD11	1.90	0.52
1:C:762:SER:OG	1:C:764:ASP:OD1	2.25	0.52
1:C:823:LEU:HB3	1:C:833:GLY:HA3	1.90	0.52
1:C:926:VAL:CG1	1:C:938:LEU:O	2.57	0.52
1:C:1240:ILE:HG22	1:C:1242:TYR:CD1	2.44	0.52
1:E:489:TYR:C	1:E:489:TYR:CD1	2.85	0.52
1:E:714:LEU:HB3	1:E:730:LEU:HB2	1.90	0.52
1:E:884:TRP:CH2	2:F:81:ILE:HD11	2.44	0.52
1:E:1018:LEU:HB3	1:E:1030:TRP:O	2.08	0.52
1:G:489:TYR:HD1	1:G:489:TYR:C	2.16	0.52
1:G:597:TRP:HZ2	1:G:603:ILE:HG12	1.70	0.52
1:G:639:LEU:HD23	1:G:653:ILE:HD13	1.90	0.52
1:G:1029:VAL:HG11	1:G:1073:ILE:HA	1.90	0.52
2:H:18:HIS:NE2	5:H:201:HEM:CHD	2.72	0.52
1:I:334:PHE:CB	1:I:337:ARG:CG	2.87	0.52
1:I:879:ARG:HB3	1:I:921:MET:HE1	1.81	0.52
1:I:928:VAL:CG1	1:I:937:VAL:HA	2.28	0.52
1:I:986:GLU:HA	1:I:997:GLN:O	2.09	0.52
1:K:505:PHE:CZ	1:K:540:VAL:CG1	2.90	0.52
1:A:296:SER:O	1:A:300:ASN:N	2.42	0.52
1:A:525:GLU:O	1:A:528:GLU:HG2	2.05	0.52
1:C:489:TYR:HD1	1:C:489:TYR:C	2.16	0.52
1:C:928:VAL:CG2	1:C:1224:HIS:CG	2.92	0.52
1:C:1018:LEU:HB3	1:C:1030:TRP:O	2.08	0.52
1:C:1213:PHE:HE2	1:C:1215:THR:HG22	1.69	0.52
1:E:703:ASN:ND2	1:E:746:VAL:O	2.42	0.52
1:E:928:VAL:CG2	1:E:1224:HIS:CG	2.92	0.52
1:E:986:GLU:HA	1:E:997:GLN:O	2.09	0.52
1:G:146:GLU:CG	1:I:111:ARG:HH11	2.15	0.52
1:G:334:PHE:CB	1:G:337:ARG:CG	2.87	0.52
1:G:639:LEU:CG	1:G:653:ILE:HG21	2.36	0.52
1:G:747:ASN:ND2	1:G:801:VAL:O	2.38	0.52
1:G:944:ARG:NE	1:G:961:GLU:O	2.39	0.52
1:I:457:HIS:NE2	1:I:493:SER:CB	2.72	0.52
1:I:505:PHE:CZ	1:I:540:VAL:CG1	2.90	0.52
1:I:582:LEU:HD23	1:I:582:LEU:C	2.33	0.52
1:I:1026:GLU:HG2	1:I:1041:ARG:HA	1.91	0.52
1:K:334:PHE:CB	1:K:337:ARG:CG	2.87	0.52
1:K:902:ASP:HB3	2:L:72:LYS:NZ	2.24	0.52
1:K:1026:GLU:HG2	1:K:1041:ARG:HA	1.91	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:902:ASP:HB3	2:N:72:LYS:NZ	2.24	0.52
1:M:1026:GLU:HG2	1:M:1041:ARG:HA	1.91	0.52
1:M:1226:SER:OG	1:M:1227:PRO:HD2	2.09	0.52
1:A:373:GLU:HA	1:A:373:GLU:OE2	2.09	0.52
1:A:461:ILE:CD1	1:A:491:MET:HG3	2.40	0.52
1:A:525:GLU:HA	1:A:528:GLU:HG2	1.92	0.52
1:A:1018:LEU:HB3	1:A:1030:TRP:O	2.08	0.52
1:A:1151:ILE:H	1:A:1167:PRO:CD	2.19	0.52
1:A:1233:VAL:HA	1:A:1242:TYR:O	2.09	0.52
1:C:146:GLU:CB	1:C:147:PRO:HD2	2.37	0.52
2:D:18:HIS:CE1	5:D:201:HEM:ND	2.76	0.52
1:E:246:TRP:CH2	1:E:370:ILE:HG22	2.45	0.52
1:E:757:LEU:HB3	1:E:769:LEU:HD11	1.90	0.52
1:E:1171:GLU:CG	1:E:1172:GLY:N	2.68	0.52
1:E:1240:ILE:HG22	1:E:1242:TYR:CD1	2.44	0.52
2:F:18:HIS:NE2	5:F:201:HEM:CHD	2.72	0.52
1:G:296:SER:O	1:G:300:ASN:N	2.42	0.52
1:G:316:GLU:O	1:G:318:LYS:CG	2.50	0.52
1:G:373:GLU:HA	1:G:373:GLU:OE2	2.09	0.52
1:G:926:VAL:CG1	1:G:938:LEU:O	2.57	0.52
1:I:537:ASP:HA	1:I:540:VAL:HG23	1.92	0.52
1:I:703:ASN:ND2	1:I:746:VAL:O	2.42	0.52
1:I:1200:LYS:CD	1:I:1202:TRP:CE2	2.81	0.52
1:K:390:GLN:OE1	1:K:489:TYR:HE2	1.92	0.52
1:K:457:HIS:NE2	1:K:493:SER:CB	2.72	0.52
1:K:513:LYS:CE	1:K:522:LEU:HG	2.40	0.52
1:K:525:GLU:HA	1:K:528:GLU:HG2	1.92	0.52
1:K:1233:VAL:HA	1:K:1242:TYR:O	2.09	0.52
1:A:246:TRP:CH2	1:A:370:ILE:HG22	2.45	0.52
1:A:334:PHE:CB	1:A:337:ARG:CD	2.87	0.52
2:B:18:HIS:NE2	5:B:201:HEM:CHD	2.72	0.52
1:C:496:MET:HA	1:C:496:MET:CE	2.31	0.52
1:C:525:GLU:HA	1:C:528:GLU:HG2	1.92	0.52
1:C:582:LEU:HD23	1:C:582:LEU:C	2.33	0.52
1:C:903:ASP:O	1:C:904:GLN:CB	2.57	0.52
1:C:1026:GLU:HG2	1:C:1041:ARG:HA	1.91	0.52
1:C:1233:VAL:CA	1:C:1242:TYR:O	2.58	0.52
1:E:926:VAL:CG1	1:E:938:LEU:O	2.57	0.52
1:G:513:LYS:CE	1:G:522:LEU:HG	2.40	0.52
1:G:1240:ILE:HG22	1:G:1242:TYR:CD1	2.44	0.52
1:I:206:LEU:HD21	1:I:235:HIS:HD2	1.75	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:567:GLY:O	1:I:569:CYS:N	2.41	0.52
1:I:1201:TRP:CE3	1:I:1210:SER:CB	2.87	0.52
1:I:1213:PHE:O	1:I:1214:TYR:CB	2.49	0.52
1:I:1240:ILE:HG22	1:I:1242:TYR:CD1	2.44	0.52
1:M:513:LYS:CE	1:M:522:LEU:HG	2.40	0.52
1:M:1018:LEU:HB3	1:M:1030:TRP:O	2.08	0.52
1:A:431:LYS:HZ3	1:C:336:ASN:CB	2.12	0.52
1:A:564:VAL:HG11	1:A:583:GLN:CG	2.39	0.52
1:A:639:LEU:HD23	1:A:653:ILE:HD13	1.90	0.52
1:A:986:GLU:HA	1:A:997:GLN:O	2.09	0.52
1:A:1213:PHE:HE2	1:A:1215:THR:HG22	1.69	0.52
1:A:1233:VAL:CA	1:A:1242:TYR:O	2.58	0.52
1:C:1029:VAL:HG11	1:C:1073:ILE:HA	1.90	0.52
1:C:1226:SER:OG	1:C:1227:PRO:HD2	2.09	0.52
1:E:984:ALA:CA	1:E:999:ARG:O	2.47	0.52
1:E:1226:SER:OG	1:E:1227:PRO:HD2	2.09	0.52
1:G:122:ARG:NE	1:G:126:PHE:CE2	2.78	0.52
1:G:400:LEU:O	1:G:404:TRP:HE3	1.91	0.52
1:G:564:VAL:HG11	1:G:583:GLN:CG	2.39	0.52
1:G:928:VAL:CG2	1:G:1224:HIS:CG	2.92	0.52
1:I:122:ARG:NE	1:I:126:PHE:CE2	2.78	0.52
1:I:137:GLN:NE2	1:I:173:LEU:HB3	2.24	0.52
1:I:246:TRP:CH2	1:I:370:ILE:HG22	2.45	0.52
1:I:1233:VAL:HG11	1:I:1243:ILE:CG1	2.28	0.52
1:K:296:SER:O	1:K:300:ASN:N	2.42	0.52
1:K:926:VAL:CG1	1:K:938:LEU:O	2.57	0.52
1:K:1146:ASP:HB2	1:K:1150:GLU:HB3	1.90	0.52
1:K:1226:SER:OG	1:K:1227:PRO:HD2	2.09	0.52
1:M:525:GLU:HA	1:M:528:GLU:HG2	1.92	0.52
1:M:703:ASN:ND2	1:M:746:VAL:O	2.42	0.52
1:M:903:ASP:O	1:M:904:GLN:CB	2.56	0.52
1:M:1200:LYS:CD	1:M:1202:TRP:CE2	2.81	0.52
1:M:1233:VAL:CA	1:M:1242:TYR:O	2.58	0.52
1:A:902:ASP:CB	2:B:72:LYS:HZ2	2.19	0.52
1:A:926:VAL:HB	1:A:938:LEU:O	2.10	0.52
1:C:332:ARG:CG	1:C:332:ARG:NH1	2.73	0.52
1:C:390:GLN:HB3	1:C:393:VAL:HG22	1.91	0.52
1:E:334:PHE:CB	1:E:337:ARG:CG	2.87	0.52
1:E:980:ASP:OD1	1:E:981:GLU:N	2.40	0.52
1:E:1233:VAL:HG11	1:E:1243:ILE:CG1	2.28	0.52
1:G:246:TRP:CH2	1:G:370:ILE:HG22	2.45	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:570:GLU:OE2	1:G:570:GLU:HA	2.08	0.52
1:I:296:SER:O	1:I:300:ASN:N	2.42	0.52
1:I:317:CYS:SG	1:I:323:VAL:CG1	2.98	0.52
1:I:513:LYS:CE	1:I:522:LEU:HG	2.40	0.52
1:I:525:GLU:HA	1:I:528:GLU:HG2	1.92	0.52
1:I:657:GLU:HB3	1:I:680:LYS:HD2	1.92	0.52
1:I:1029:VAL:HG11	1:I:1073:ILE:HA	1.90	0.52
1:I:1233:VAL:CA	1:I:1242:TYR:O	2.58	0.52
1:K:242:LEU:N	1:K:242:LEU:CD1	2.73	0.52
1:K:537:ASP:HA	1:K:540:VAL:HG23	1.92	0.52
1:K:1201:TRP:CE3	1:K:1210:SER:CB	2.87	0.52
1:K:1233:VAL:CA	1:K:1242:TYR:O	2.58	0.52
2:L:18:HIS:CE1	5:L:201:HEM:ND	2.76	0.52
1:M:137:GLN:NE2	1:M:173:LEU:HB3	2.23	0.52
1:M:296:SER:O	1:M:300:ASN:N	2.42	0.52
1:M:544:PHE:HE1	1:M:576:VAL:CG1	1.88	0.52
1:M:762:SER:OG	1:M:764:ASP:OD1	2.26	0.52
1:M:849:SER:HB2	1:M:890:PHE:CZ	2.44	0.52
1:M:1233:VAL:HA	1:M:1242:TYR:O	2.09	0.52
1:A:160:LYS:NZ	1:A:160:LYS:CB	2.73	0.52
1:A:902:ASP:HB3	2:B:72:LYS:NZ	2.24	0.52
1:C:513:LYS:CE	1:C:522:LEU:HG	2.40	0.52
1:C:1233:VAL:CB	1:C:1242:TYR:O	2.54	0.52
1:E:525:GLU:HA	1:E:528:GLU:HG2	1.91	0.52
1:E:657:GLU:HB3	1:E:680:LYS:HD2	1.92	0.52
1:G:657:GLU:HB3	1:G:680:LYS:HD2	1.92	0.52
1:G:1167:PRO:CB	1:G:1202:TRP:CE2	2.93	0.52
1:G:1167:PRO:O	1:G:1202:TRP:CE2	2.63	0.52
1:I:298:PHE:CZ	1:I:325:SER:HA	2.42	0.52
1:I:564:VAL:HG11	1:I:583:GLN:CG	2.39	0.52
1:I:884:TRP:O	1:I:885:VAL:C	2.53	0.52
1:K:246:TRP:CH2	1:K:370:ILE:HG22	2.45	0.52
1:K:489:TYR:HD1	1:K:489:TYR:C	2.16	0.52
1:K:926:VAL:HB	1:K:938:LEU:O	2.10	0.52
1:M:334:PHE:CB	1:M:337:ARG:CG	2.87	0.52
1:M:862:TYR:CE1	1:M:885:VAL:HG12	2.21	0.52
1:M:926:VAL:HB	1:M:938:LEU:O	2.10	0.52
1:A:241:ILE:C	1:A:242:LEU:CD1	2.81	0.52
1:A:505:PHE:HZ	1:A:540:VAL:CG1	2.17	0.52
1:A:928:VAL:CG2	1:A:1224:HIS:CG	2.92	0.52
1:A:1167:PRO:O	1:A:1202:TRP:CE2	2.63	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:246:TRP:CH2	1:C:370:ILE:HG22	2.45	0.52
1:C:327:ILE:HD13	1:C:353:ILE:HG21	1.92	0.52
1:C:551:ASN:O	1:C:555:LEU:HB3	2.08	0.52
1:C:564:VAL:HG11	1:C:583:GLN:CG	2.39	0.52
1:E:298:PHE:CZ	1:E:325:SER:HA	2.42	0.52
1:E:926:VAL:HB	1:E:938:LEU:O	2.10	0.52
1:G:206:LEU:HD21	1:G:235:HIS:HD2	1.75	0.52
1:G:525:GLU:HA	1:G:528:GLU:HG2	1.91	0.52
1:I:373:GLU:HA	1:I:373:GLU:OE2	2.09	0.52
1:I:884:TRP:CH2	2:J:81:ILE:HD11	2.44	0.52
2:J:18:HIS:CE1	5:J:201:HEM:ND	2.76	0.52
1:K:174:LEU:HD23	1:K:175:GLU:HA	1.92	0.52
1:K:373:GLU:HA	1:K:373:GLU:OE2	2.09	0.52
1:K:564:VAL:HG11	1:K:583:GLN:CG	2.39	0.52
1:K:1213:PHE:O	1:K:1214:TYR:CB	2.49	0.52
1:K:1220:LEU:CD1	1:K:1220:LEU:N	2.53	0.52
1:A:513:LYS:CE	1:A:522:LEU:HG	2.40	0.52
1:A:926:VAL:CG1	1:A:938:LEU:O	2.57	0.52
1:C:160:LYS:NZ	1:C:160:LYS:CB	2.73	0.52
1:E:327:ILE:HD13	1:E:353:ILE:HG21	1.92	0.52
1:E:389:LEU:HD21	1:E:395:VAL:CG2	2.40	0.52
1:E:390:GLN:HB3	1:E:393:VAL:HG22	1.91	0.52
1:E:575:GLU:O	1:E:575:GLU:HG3	2.10	0.52
1:E:1233:VAL:CA	1:E:1242:TYR:O	2.58	0.52
1:G:241:ILE:C	1:G:242:LEU:CD1	2.81	0.52
1:G:389:LEU:HD21	1:G:395:VAL:CG2	2.40	0.52
1:G:537:ASP:HA	1:G:540:VAL:HG23	1.92	0.52
1:G:1026:GLU:HG2	1:G:1041:ARG:HA	1.91	0.52
1:G:1233:VAL:CA	1:G:1242:TYR:O	2.58	0.52
1:I:242:LEU:N	1:I:242:LEU:CD1	2.73	0.52
1:I:528:GLU:O	1:I:532:ILE:HG22	2.10	0.52
2:J:18:HIS:NE2	5:J:201:HEM:CHD	2.72	0.52
1:K:657:GLU:HB3	1:K:680:LYS:HD2	1.92	0.52
1:M:174:LEU:HD23	1:M:175:GLU:HA	1.92	0.52
1:M:513:LYS:CD	1:M:522:LEU:HG	2.36	0.52
1:M:564:VAL:HG11	1:M:583:GLN:CG	2.39	0.52
1:M:1233:VAL:CB	1:M:1242:TYR:O	2.54	0.52
1:A:334:PHE:CB	1:A:337:ARG:CG	2.87	0.52
1:C:242:LEU:N	1:C:242:LEU:CD1	2.73	0.52
1:C:318:LYS:HD3	1:C:439:ASP:CB	2.40	0.52
1:E:122:ARG:NE	1:E:126:PHE:CE2	2.78	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:318:LYS:HD3	1:E:439:ASP:CB	2.40	0.52
1:E:373:GLU:OE2	1:E:373:GLU:HA	2.09	0.52
1:E:1239:GLY:O	1:E:1240:ILE:HB	2.08	0.52
1:G:318:LYS:HD3	1:G:439:ASP:CB	2.40	0.52
1:G:327:ILE:HD13	1:G:353:ILE:CG2	2.40	0.52
1:G:779:LYS:NZ	1:G:827:HIS:O	2.43	0.52
1:I:390:GLN:HB3	1:I:393:VAL:HG22	1.91	0.52
1:I:853:HIS:O	1:I:869:THR:N	2.38	0.52
1:I:1239:GLY:O	1:I:1240:ILE:HB	2.08	0.52
1:K:122:ARG:NE	1:K:126:PHE:CE2	2.78	0.52
1:K:206:LEU:HD21	1:K:235:HIS:HD2	1.75	0.52
1:K:327:ILE:HD13	1:K:353:ILE:CG2	2.40	0.52
1:K:389:LEU:HD21	1:K:395:VAL:CG2	2.40	0.52
1:K:598:ILE:O	1:K:598:ILE:HG13	2.10	0.52
1:K:779:LYS:NZ	1:K:827:HIS:O	2.43	0.52
1:K:1176:HIS:CB	1:K:1218:THR:HB	2.36	0.52
1:M:389:LEU:HD21	1:M:395:VAL:CG2	2.40	0.52
1:A:597:TRP:CH2	1:A:603:ILE:HG12	2.43	0.51
1:A:1167:PRO:CB	1:A:1202:TRP:CE2	2.93	0.51
1:A:1187:PRO:CG	1:A:1229:PHE:HB3	2.40	0.51
1:C:122:ARG:NE	1:C:126:PHE:CE2	2.78	0.51
1:C:334:PHE:CB	1:C:337:ARG:CG	2.87	0.51
1:C:389:LEU:HD21	1:C:395:VAL:CG2	2.40	0.51
1:C:461:ILE:CD1	1:C:491:MET:HG3	2.40	0.51
1:C:1167:PRO:O	1:C:1202:TRP:CE2	2.63	0.51
1:C:1176:HIS:CB	1:C:1218:THR:HB	2.36	0.51
1:C:1247:LEU:CD1	1:C:1248:GLU:H	2.13	0.51
1:E:537:ASP:HA	1:E:540:VAL:HG23	1.92	0.51
1:E:544:PHE:HD1	1:E:576:VAL:CG1	2.17	0.51
1:E:879:ARG:HB3	1:E:921:MET:HE1	1.81	0.51
1:E:884:TRP:CZ3	1:E:885:VAL:O	2.64	0.51
1:G:398:LYS:O	1:G:402:ILE:HG12	2.10	0.51
1:G:575:GLU:HG3	1:G:575:GLU:O	2.10	0.51
1:I:926:VAL:HB	1:I:938:LEU:O	2.10	0.51
1:K:390:GLN:HB3	1:K:393:VAL:HG22	1.91	0.51
1:K:849:SER:HB2	1:K:890:PHE:CZ	2.45	0.51
1:K:884:TRP:CZ3	1:K:885:VAL:O	2.64	0.51
1:M:1183:LEU:N	1:M:1183:LEU:CD1	2.73	0.51
1:A:174:LEU:HD23	1:A:175:GLU:HA	1.92	0.51
1:A:561:PRO:CB	1:A:1214:TYR:CD2	2.86	0.51
1:C:231:MET:SD	1:C:258:CYS:SG	2.97	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:298:PHE:CZ	1:C:325:SER:HA	2.42	0.51
1:C:1173:ALA:O	1:C:1174:ALA:O	2.29	0.51
1:E:639:LEU:N	1:E:653:ILE:HG21	2.22	0.51
1:E:884:TRP:O	1:E:885:VAL:C	2.53	0.51
1:G:884:TRP:O	1:G:885:VAL:C	2.53	0.51
1:I:174:LEU:HD23	1:I:175:GLU:HA	1.92	0.51
1:I:327:ILE:HD13	1:I:353:ILE:CG2	2.40	0.51
1:I:389:LEU:HD21	1:I:395:VAL:CG2	2.40	0.51
1:I:1167:PRO:O	1:I:1202:TRP:CE2	2.63	0.51
1:K:398:LYS:O	1:K:402:ILE:HG12	2.11	0.51
1:K:505:PHE:HZ	1:K:540:VAL:CG1	2.17	0.51
1:K:592:MET:HE2	1:K:592:MET:H	1.74	0.51
1:M:456:LEU:O	1:M:459:LYS:N	2.38	0.51
1:M:926:VAL:CG1	1:M:938:LEU:O	2.57	0.51
1:A:327:ILE:HD13	1:A:353:ILE:HG21	1.92	0.51
1:A:598:ILE:O	1:A:598:ILE:HG13	2.10	0.51
1:A:747:ASN:ND2	1:A:801:VAL:O	2.38	0.51
1:A:849:SER:HB2	1:A:890:PHE:CZ	2.45	0.51
1:A:879:ARG:HB3	1:A:921:MET:HE1	1.81	0.51
1:A:884:TRP:O	1:A:885:VAL:C	2.53	0.51
1:A:1247:LEU:CD1	1:A:1248:GLU:N	2.73	0.51
1:C:137:GLN:NE2	1:C:173:LEU:HB3	2.24	0.51
1:C:416:GLN:NE2	1:C:416:GLN:CA	2.73	0.51
1:C:528:GLU:O	1:C:532:ILE:HG22	2.10	0.51
1:C:557:ARG:HH21	1:C:1174:ALA:HB2	1.75	0.51
1:C:657:GLU:HB3	1:C:680:LYS:HD2	1.92	0.51
1:C:849:SER:HB2	1:C:890:PHE:CZ	2.45	0.51
1:C:926:VAL:HB	1:C:938:LEU:O	2.10	0.51
1:C:1067:VAL:N	1:C:1081:PHE:O	2.40	0.51
1:E:385:ASP:OD2	1:E:403:LEU:HD11	2.11	0.51
1:E:461:ILE:CD1	1:E:491:MET:HG3	2.40	0.51
1:E:513:LYS:CE	1:E:522:LEU:HG	2.40	0.51
1:E:639:LEU:CG	1:E:653:ILE:HG21	2.36	0.51
1:E:849:SER:HB2	1:E:890:PHE:CZ	2.45	0.51
1:E:1026:GLU:HG2	1:E:1041:ARG:HA	1.91	0.51
1:E:1168:LEU:HD11	1:E:1171:GLU:CG	2.41	0.51
1:G:174:LEU:HD23	1:G:175:GLU:HA	1.92	0.51
1:G:528:GLU:O	1:G:532:ILE:HG22	2.10	0.51
1:G:849:SER:HB2	1:G:890:PHE:CZ	2.45	0.51
1:G:980:ASP:OD1	1:G:981:GLU:N	2.40	0.51
1:I:385:ASP:OD2	1:I:403:LEU:HD11	2.11	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:489:TYR:HD1	1:I:489:TYR:C	2.16	0.51
1:K:385:ASP:OD2	1:K:403:LEU:HD11	2.11	0.51
1:K:528:GLU:O	1:K:532:ILE:HG22	2.10	0.51
1:K:595:LEU:HD22	1:K:1244:LEU:HD12	1.78	0.51
1:M:385:ASP:OD2	1:M:403:LEU:HD11	2.11	0.51
1:M:505:PHE:CZ	1:M:540:VAL:CG1	2.90	0.51
1:A:122:ARG:NE	1:A:126:PHE:CE2	2.78	0.51
1:A:318:LYS:HD3	1:A:439:ASP:CB	2.40	0.51
1:A:639:LEU:CG	1:A:653:ILE:HG21	2.36	0.51
1:A:1187:PRO:HD3	1:A:1229:PHE:CG	2.45	0.51
1:C:244:ASP:O	1:C:245:VAL:HB	2.11	0.51
1:C:373:GLU:HA	1:C:373:GLU:OE2	2.09	0.51
1:C:862:TYR:HD1	1:C:885:VAL:H	1.56	0.51
1:C:1187:PRO:HD3	1:C:1229:PHE:CG	2.45	0.51
1:C:1239:GLY:O	1:C:1240:ILE:HB	2.08	0.51
1:E:667:THR:OG1	1:E:708:THR:O	2.29	0.51
1:E:1167:PRO:O	1:E:1202:TRP:CE2	2.63	0.51
1:E:1173:ALA:O	1:E:1174:ALA:O	2.29	0.51
1:E:1175:THR:HG1	1:E:1176:HIS:CE1	2.27	0.51
1:G:347:ASN:O	1:G:348:LYS:CB	2.59	0.51
1:G:385:ASP:OD2	1:G:403:LEU:HD11	2.11	0.51
1:G:1239:GLY:O	1:G:1240:ILE:HB	2.08	0.51
1:I:318:LYS:HD3	1:I:439:ASP:CB	2.40	0.51
1:I:837:THR:HG21	1:I:843:ILE:HD11	1.92	0.51
1:I:849:SER:HB2	1:I:890:PHE:CZ	2.45	0.51
1:I:1173:ALA:O	1:I:1174:ALA:O	2.29	0.51
1:K:416:GLN:NE2	1:K:416:GLN:CA	2.73	0.51
1:K:1173:ALA:O	1:K:1174:ALA:O	2.29	0.51
2:L:18:HIS:NE2	5:L:201:HEM:CHD	2.72	0.51
1:M:125:VAL:O	1:M:125:VAL:HG12	2.11	0.51
1:M:246:TRP:CH2	1:M:370:ILE:HG22	2.45	0.51
1:M:575:GLU:O	1:M:575:GLU:HG3	2.10	0.51
1:M:1187:PRO:CG	1:M:1229:PHE:HB3	2.40	0.51
1:A:244:ASP:O	1:A:245:VAL:HB	2.11	0.51
1:A:327:ILE:HD13	1:A:353:ILE:CG2	2.40	0.51
1:A:779:LYS:NZ	1:A:827:HIS:O	2.43	0.51
1:A:884:TRP:CZ3	1:A:885:VAL:O	2.64	0.51
1:C:174:LEU:HD23	1:C:175:GLU:HA	1.92	0.51
1:C:385:ASP:OD2	1:C:403:LEU:HD11	2.11	0.51
1:C:639:LEU:CG	1:C:653:ILE:HG21	2.36	0.51
1:C:945:ARG:HG2	1:C:946:LEU:HG	1.92	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1031:ASN:HB3	1:C:1036:LYS:HB2	1.92	0.51
1:C:1236:ASP:OD1	1:C:1236:ASP:N	2.43	0.51
1:E:347:ASN:O	1:E:348:LYS:CB	2.59	0.51
1:E:416:GLN:NE2	1:E:416:GLN:CA	2.73	0.51
1:E:557:ARG:HH21	1:E:1174:ALA:HB2	1.75	0.51
1:E:1031:ASN:HB3	1:E:1036:LYS:HB2	1.92	0.51
1:E:1060:SER:HG	1:E:1070:TRP:CD1	2.29	0.51
1:E:1187:PRO:HD3	1:E:1229:PHE:CG	2.45	0.51
1:G:327:ILE:HD13	1:G:353:ILE:HG21	1.92	0.51
1:G:557:ARG:HH21	1:G:1174:ALA:HB2	1.76	0.51
1:I:747:ASN:ND2	1:I:801:VAL:O	2.38	0.51
1:I:1060:SER:HG	1:I:1070:TRP:CD1	2.28	0.51
1:I:1168:LEU:HD11	1:I:1171:GLU:CG	2.41	0.51
1:I:1171:GLU:CG	1:I:1172:GLY:N	2.68	0.51
1:K:125:VAL:O	1:K:125:VAL:HG12	2.11	0.51
1:K:529:TYR:HA	1:K:532:ILE:HG21	1.93	0.51
1:M:373:GLU:OE2	1:M:373:GLU:HA	2.09	0.51
1:M:744:ASN:HB3	1:M:763:ALA:HB3	1.93	0.51
1:M:1173:ALA:O	1:M:1174:ALA:O	2.29	0.51
1:A:385:ASP:OD2	1:A:403:LEU:HD11	2.11	0.51
1:A:667:THR:OG1	1:A:708:THR:O	2.29	0.51
1:A:1173:ALA:O	1:A:1174:ALA:O	2.29	0.51
1:C:347:ASN:O	1:C:348:LYS:CB	2.59	0.51
1:C:744:ASN:HB3	1:C:763:ALA:HB3	1.93	0.51
1:E:1044:GLN:HE21	1:E:1068:LYS:HZ1	1.59	0.51
1:G:229:ILE:HG22	1:G:233:ARG:CD	2.28	0.51
1:G:461:ILE:CD1	1:G:491:MET:HG3	2.40	0.51
1:G:625:GLU:HG3	1:G:667:THR:HA	1.93	0.51
1:G:1173:ALA:O	1:G:1174:ALA:O	2.29	0.51
1:I:326:LEU:HD23	1:I:353:ILE:CG2	2.41	0.51
1:I:347:ASN:O	1:I:348:LYS:CB	2.59	0.51
1:I:667:THR:OG1	1:I:708:THR:O	2.29	0.51
1:I:1167:PRO:CB	1:I:1202:TRP:CE2	2.93	0.51
1:I:1176:HIS:CB	1:I:1218:THR:HB	2.36	0.51
1:K:326:LEU:HD23	1:K:353:ILE:CG2	2.41	0.51
1:K:334:PHE:CB	1:K:337:ARG:CD	2.87	0.51
1:K:862:TYR:HD1	1:K:885:VAL:H	1.56	0.51
1:K:1183:LEU:N	1:K:1183:LEU:CD1	2.73	0.51
1:M:242:LEU:N	1:M:242:LEU:CD1	2.73	0.51
1:M:244:ASP:O	1:M:245:VAL:HB	2.11	0.51
1:M:333:ASP:N	1:M:333:ASP:OD1	2.44	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:598:ILE:HG13	1:M:598:ILE:O	2.10	0.51
1:M:920:VAL:HG12	1:M:921:MET:N	2.24	0.51
1:M:1171:GLU:CG	1:M:1172:GLY:N	2.68	0.51
1:A:537:ASP:HA	1:A:540:VAL:HG23	1.92	0.51
1:A:557:ARG:HH21	1:A:1174:ALA:HB2	1.76	0.51
1:A:744:ASN:HB3	1:A:763:ALA:HB3	1.93	0.51
1:A:1031:ASN:HB3	1:A:1036:LYS:HB2	1.92	0.51
1:A:1212:THR:CG2	1:A:1213:PHE:H	2.12	0.51
1:C:244:ASP:O	1:C:245:VAL:CB	2.59	0.51
1:C:327:ILE:HD13	1:C:353:ILE:CG2	2.40	0.51
1:C:747:ASN:ND2	1:C:801:VAL:O	2.38	0.51
1:C:1168:LEU:HD11	1:C:1171:GLU:CG	2.41	0.51
2:D:18:HIS:NE2	5:D:201:HEM:CHD	2.72	0.51
1:E:160:LYS:CB	1:E:160:LYS:NZ	2.73	0.51
1:E:206:LEU:HD21	1:E:235:HIS:HD2	1.75	0.51
1:E:242:LEU:CD1	1:E:242:LEU:N	2.73	0.51
1:E:567:GLY:O	1:E:569:CYS:N	2.41	0.51
1:E:744:ASN:HB3	1:E:763:ALA:HB3	1.93	0.51
1:E:779:LYS:NZ	1:E:827:HIS:O	2.43	0.51
1:G:505:PHE:CZ	1:G:540:VAL:CG1	2.90	0.51
1:G:592:MET:HE2	1:G:592:MET:H	1.74	0.51
1:G:1168:LEU:HD11	1:G:1171:GLU:CG	2.41	0.51
1:G:1187:PRO:HD3	1:G:1229:PHE:CG	2.45	0.51
1:I:529:TYR:HA	1:I:532:ILE:HG21	1.93	0.51
1:I:557:ARG:HH21	1:I:1174:ALA:HB2	1.75	0.51
1:I:598:ILE:O	1:I:598:ILE:HG13	2.10	0.51
1:I:884:TRP:CZ3	1:I:885:VAL:O	2.64	0.51
1:I:923:LYS:CB	1:I:940:VAL:HG21	2.41	0.51
1:K:575:GLU:HG3	1:K:575:GLU:O	2.10	0.51
1:K:621:ALA:HA	1:K:631:ALA:O	2.11	0.51
1:K:945:ARG:HG2	1:K:946:LEU:HG	1.92	0.51
1:M:390:GLN:HB3	1:M:393:VAL:HG22	1.91	0.51
1:M:461:ILE:CD1	1:M:491:MET:HG3	2.40	0.51
1:M:528:GLU:O	1:M:532:ILE:HG22	2.10	0.51
1:M:558:GLN:CB	1:M:559:PRO:CD	2.78	0.51
1:M:884:TRP:O	1:M:885:VAL:C	2.53	0.51
1:A:390:GLN:HB3	1:A:393:VAL:HG22	1.91	0.51
1:A:561:PRO:O	1:A:563:ILE:N	2.44	0.51
1:A:980:ASP:OD1	1:A:981:GLU:N	2.40	0.51
1:C:537:ASP:HA	1:C:540:VAL:HG23	1.92	0.51
1:C:561:PRO:O	1:C:563:ILE:N	2.44	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1060:SER:HG	1:C:1070:TRP:CD1	2.28	0.51
1:E:332:ARG:CG	1:E:332:ARG:NH1	2.73	0.51
1:E:398:LYS:O	1:E:402:ILE:HG12	2.10	0.51
1:E:564:VAL:HG11	1:E:583:GLN:CG	2.39	0.51
1:G:125:VAL:O	1:G:125:VAL:HG12	2.11	0.51
1:G:390:GLN:HB3	1:G:393:VAL:HG22	1.91	0.51
1:G:567:GLY:O	1:G:569:CYS:N	2.41	0.51
1:G:1176:HIS:CB	1:G:1218:THR:HB	2.36	0.51
2:H:18:HIS:CE1	5:H:201:HEM:ND	2.76	0.51
1:I:461:ILE:CD1	1:I:491:MET:HG3	2.40	0.51
1:K:318:LYS:HD3	1:K:439:ASP:CB	2.41	0.51
1:K:923:LYS:CB	1:K:940:VAL:HG21	2.41	0.51
1:M:122:ARG:NE	1:M:126:PHE:CE2	2.78	0.51
1:M:149:TRP:CZ3	1:M:260:ILE:HD11	2.46	0.51
1:M:326:LEU:HD23	1:M:353:ILE:CG2	2.41	0.51
1:M:557:ARG:HH21	1:M:1174:ALA:HB2	1.75	0.51
1:M:561:PRO:O	1:M:563:ILE:N	2.44	0.51
1:M:621:ALA:HA	1:M:631:ALA:O	2.11	0.51
1:M:639:LEU:N	1:M:653:ILE:HG21	2.22	0.51
1:M:639:LEU:CG	1:M:653:ILE:HG21	2.36	0.51
1:M:1167:PRO:O	1:M:1202:TRP:CE2	2.63	0.51
1:M:1187:PRO:HD3	1:M:1229:PHE:CG	2.45	0.51
1:A:333:ASP:N	1:A:333:ASP:OD1	2.44	0.51
1:A:546:GLU:HB3	1:A:570:GLU:OE1	2.11	0.51
1:A:595:LEU:HD13	1:A:1244:LEU:HD13	1.93	0.51
1:A:657:GLU:HB3	1:A:680:LYS:HD2	1.92	0.51
1:A:862:TYR:CE1	1:A:885:VAL:HG12	2.21	0.51
1:C:149:TRP:CZ3	1:C:260:ILE:HD11	2.46	0.51
1:C:592:MET:HE2	1:C:592:MET:H	1.75	0.51
1:C:595:LEU:HD13	1:C:1244:LEU:HD13	1.93	0.51
1:C:837:THR:HG21	1:C:843:ILE:HD11	1.92	0.51
1:E:174:LEU:HD23	1:E:175:GLU:HA	1.92	0.51
1:E:244:ASP:O	1:E:245:VAL:HB	2.11	0.51
1:E:317:CYS:SG	1:E:323:VAL:CG1	2.98	0.51
1:E:529:TYR:HA	1:E:532:ILE:HG21	1.93	0.51
1:E:862:TYR:HD1	1:E:885:VAL:H	1.56	0.51
1:E:1236:ASP:OD1	1:E:1236:ASP:N	2.43	0.51
1:G:244:ASP:O	1:G:245:VAL:HB	2.11	0.51
1:G:416:GLN:NE2	1:G:416:GLN:CA	2.73	0.51
1:G:621:ALA:HA	1:G:631:ALA:O	2.11	0.51
1:I:1187:PRO:CG	1:I:1229:PHE:HB3	2.40	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:244:ASP:O	1:K:245:VAL:HB	2.11	0.51
1:K:837:THR:HG21	1:K:843:ILE:HD11	1.92	0.51
1:K:1067:VAL:N	1:K:1081:PHE:O	2.40	0.51
1:K:1168:LEU:HD11	1:K:1171:GLU:CG	2.41	0.51
1:M:327:ILE:HD13	1:M:353:ILE:CG2	2.40	0.51
1:M:537:ASP:HA	1:M:540:VAL:HG23	1.92	0.51
1:M:1031:ASN:HB3	1:M:1036:LYS:HB2	1.92	0.51
1:A:149:TRP:CZ3	1:A:260:ILE:HD11	2.46	0.51
1:A:229:ILE:O	1:A:233:ARG:HG2	2.11	0.51
1:A:528:GLU:O	1:A:532:ILE:HG22	2.10	0.51
1:C:546:GLU:HB3	1:C:570:GLU:OE1	2.11	0.51
1:C:1228:ASP:O	1:C:1229:PHE:CB	2.59	0.51
1:E:326:LEU:HD23	1:E:353:ILE:CG2	2.41	0.51
1:E:337:ARG:HD3	1:E:341:TYR:HE2	1.76	0.51
1:E:505:PHE:HZ	1:E:540:VAL:CG1	2.17	0.51
1:E:595:LEU:HD13	1:E:1244:LEU:HD13	1.93	0.51
1:E:598:ILE:HG13	1:E:598:ILE:O	2.10	0.51
1:E:945:ARG:HG2	1:E:946:LEU:HG	1.92	0.51
1:E:1228:ASP:O	1:E:1229:PHE:CB	2.59	0.51
1:G:853:HIS:O	1:G:869:THR:N	2.39	0.51
1:G:1031:ASN:HB3	1:G:1036:LYS:HB2	1.92	0.51
1:I:244:ASP:O	1:I:245:VAL:HB	2.11	0.51
1:I:337:ARG:HD3	1:I:341:TYR:HE2	1.76	0.51
1:I:398:LYS:O	1:I:402:ILE:HG12	2.10	0.51
1:I:621:ALA:HA	1:I:631:ALA:O	2.11	0.51
1:I:862:TYR:HD1	1:I:885:VAL:H	1.56	0.51
1:I:1228:ASP:O	1:I:1229:PHE:CB	2.59	0.51
1:K:561:PRO:O	1:K:563:ILE:N	2.44	0.51
1:K:744:ASN:HB3	1:K:763:ALA:HB3	1.93	0.51
1:K:1167:PRO:O	1:K:1202:TRP:CE2	2.63	0.51
1:K:1187:PRO:CG	1:K:1229:PHE:HB3	2.40	0.51
1:K:1228:ASP:O	1:K:1229:PHE:CB	2.59	0.51
1:M:160:LYS:CB	1:M:160:LYS:NZ	2.73	0.51
1:M:546:GLU:HB3	1:M:570:GLU:OE1	2.11	0.51
1:M:747:ASN:ND2	1:M:801:VAL:O	2.38	0.51
1:A:206:LEU:HD21	1:A:235:HIS:HD2	1.75	0.50
1:A:353:ILE:O	1:A:354:ARG:HG2	2.11	0.50
1:A:389:LEU:HD21	1:A:395:VAL:CG2	2.40	0.50
1:A:853:HIS:O	1:A:869:THR:N	2.39	0.50
1:A:1236:ASP:N	1:A:1236:ASP:OD1	2.43	0.50
1:E:149:TRP:CZ3	1:E:260:ILE:HD11	2.46	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:621:ALA:HA	1:E:631:ALA:O	2.11	0.50
1:E:625:GLU:HG3	1:E:667:THR:HA	1.93	0.50
1:E:837:THR:HG21	1:E:843:ILE:HD11	1.92	0.50
1:E:1174:ALA:C	1:E:1175:THR:HG23	2.36	0.50
1:G:149:TRP:CZ3	1:G:260:ILE:HD11	2.46	0.50
1:G:160:LYS:NZ	1:G:160:LYS:CB	2.73	0.50
1:G:229:ILE:O	1:G:233:ARG:HG2	2.11	0.50
1:G:561:PRO:O	1:G:563:ILE:N	2.44	0.50
1:G:884:TRP:CZ3	1:G:885:VAL:O	2.64	0.50
1:G:945:ARG:HG2	1:G:946:LEU:HG	1.92	0.50
1:I:149:TRP:CZ3	1:I:260:ILE:HD11	2.46	0.50
1:I:229:ILE:O	1:I:233:ARG:HG2	2.11	0.50
1:I:241:ILE:C	1:I:242:LEU:CD1	2.81	0.50
1:I:595:LEU:HD22	1:I:1244:LEU:HD12	1.78	0.50
1:I:781:ILE:HD11	1:I:826:ILE:HA	1.93	0.50
1:I:945:ARG:HG2	1:I:946:LEU:HG	1.92	0.50
1:K:903:ASP:O	1:K:904:GLN:CB	2.56	0.50
1:K:1185:PHE:CD1	1:K:1192:LEU:CG	2.63	0.50
1:K:1217:GLY:O	1:K:1218:THR:CG2	2.54	0.50
1:M:298:PHE:CZ	1:M:325:SER:HA	2.42	0.50
1:M:595:LEU:HD22	1:M:1244:LEU:HD12	1.78	0.50
1:M:595:LEU:HD13	1:M:1244:LEU:HD13	1.93	0.50
1:A:242:LEU:HD12	1:A:242:LEU:N	2.26	0.50
1:A:242:LEU:CD1	1:A:242:LEU:N	2.73	0.50
1:A:398:LYS:O	1:A:402:ILE:HG12	2.10	0.50
1:A:416:GLN:NE2	1:A:416:GLN:CA	2.73	0.50
1:A:621:ALA:HA	1:A:631:ALA:O	2.11	0.50
1:C:242:LEU:HD12	1:C:242:LEU:N	2.26	0.50
1:C:884:TRP:O	1:C:885:VAL:C	2.53	0.50
1:C:1174:ALA:C	1:C:1175:THR:HG23	2.36	0.50
1:C:1217:GLY:O	1:C:1218:THR:CG2	2.54	0.50
1:G:155:MET:HE2	1:G:441:GLN:HE21	1.77	0.50
1:G:317:CYS:SG	1:G:323:VAL:CG1	2.98	0.50
1:G:598:ILE:HG13	1:G:598:ILE:O	2.10	0.50
1:G:926:VAL:HB	1:G:938:LEU:O	2.10	0.50
1:G:1067:VAL:N	1:G:1081:PHE:O	2.40	0.50
1:G:1174:ALA:C	1:G:1175:THR:HG23	2.36	0.50
1:G:1228:ASP:O	1:G:1229:PHE:HB2	2.12	0.50
1:I:575:GLU:HG3	1:I:575:GLU:O	2.10	0.50
1:I:1228:ASP:O	1:I:1229:PHE:HB2	2.12	0.50
1:K:332:ARG:CG	1:K:332:ARG:NH1	2.73	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:337:ARG:HD3	1:K:341:TYR:HE2	1.76	0.50
1:K:353:ILE:O	1:K:354:ARG:HG2	2.11	0.50
1:K:567:GLY:O	1:K:569:CYS:N	2.41	0.50
1:K:781:ILE:HD11	1:K:826:ILE:HA	1.94	0.50
1:K:883:SER:HB2	1:K:902:ASP:CB	2.39	0.50
1:M:353:ILE:O	1:M:354:ARG:HG2	2.11	0.50
1:M:837:THR:HG21	1:M:843:ILE:HD11	1.92	0.50
1:M:884:TRP:CZ3	1:M:885:VAL:O	2.64	0.50
1:A:1168:LEU:HD11	1:A:1171:GLU:CG	2.41	0.50
1:C:195:LEU:HD12	1:C:195:LEU:C	2.36	0.50
1:C:206:LEU:HD21	1:C:235:HIS:HD2	1.75	0.50
1:C:241:ILE:C	1:C:242:LEU:CD1	2.81	0.50
1:C:398:LYS:O	1:C:402:ILE:HG12	2.10	0.50
1:C:625:GLU:HG3	1:C:667:THR:HA	1.93	0.50
1:C:884:TRP:CZ3	1:C:885:VAL:O	2.64	0.50
1:E:244:ASP:O	1:E:245:VAL:CB	2.59	0.50
1:E:496:MET:HA	1:E:496:MET:CE	2.31	0.50
1:G:242:LEU:CD1	1:G:242:LEU:N	2.73	0.50
1:G:1176:HIS:HB3	1:G:1218:THR:CG2	2.40	0.50
1:I:546:GLU:HB3	1:I:570:GLU:OE1	2.11	0.50
1:I:561:PRO:O	1:I:563:ILE:N	2.44	0.50
1:I:597:TRP:HZ2	1:I:603:ILE:HG12	1.70	0.50
1:I:1187:PRO:HD3	1:I:1229:PHE:CG	2.45	0.50
1:K:108:SER:HA	1:K:111:ARG:HD2	1.94	0.50
1:K:149:TRP:CZ3	1:K:260:ILE:HD11	2.46	0.50
1:K:557:ARG:HH21	1:K:1174:ALA:HB2	1.75	0.50
1:K:1187:PRO:HD3	1:K:1229:PHE:CG	2.45	0.50
1:M:206:LEU:HD21	1:M:235:HIS:HD2	1.75	0.50
1:M:317:CYS:SG	1:M:323:VAL:CG1	2.98	0.50
1:M:327:ILE:HD13	1:M:353:ILE:HG21	1.92	0.50
1:M:572:GLU:OE1	1:M:572:GLU:HA	2.12	0.50
1:M:1164:LEU:H	1:M:1164:LEU:CD1	2.17	0.50
1:A:244:ASP:O	1:A:245:VAL:CB	2.59	0.50
1:A:347:ASN:O	1:A:348:LYS:CB	2.59	0.50
1:A:575:GLU:HG3	1:A:575:GLU:O	2.10	0.50
1:A:945:ARG:HG2	1:A:946:LEU:HG	1.92	0.50
1:A:1153:ILE:HD11	1:A:1192:LEU:CD1	2.42	0.50
1:C:575:GLU:HG3	1:C:575:GLU:O	2.10	0.50
1:E:762:SER:OG	1:E:764:ASP:OD1	2.25	0.50
1:E:1228:ASP:O	1:E:1229:PHE:HB2	2.12	0.50
1:G:326:LEU:HD23	1:G:353:ILE:CG2	2.41	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:389:LEU:HD21	1:G:395:VAL:CG1	2.42	0.50
1:G:529:TYR:HA	1:G:532:ILE:HG21	1.93	0.50
1:G:781:ILE:HD11	1:G:826:ILE:HA	1.94	0.50
1:G:837:THR:HG21	1:G:843:ILE:HD11	1.92	0.50
1:G:923:LYS:CB	1:G:940:VAL:HG21	2.41	0.50
1:I:353:ILE:O	1:I:354:ARG:HG2	2.11	0.50
1:I:389:LEU:HD21	1:I:395:VAL:CG1	2.42	0.50
1:I:762:SER:OG	1:I:764:ASP:OD1	2.25	0.50
1:I:1174:ALA:C	1:I:1175:THR:HG23	2.36	0.50
1:I:1247:LEU:CD1	1:I:1248:GLU:N	2.73	0.50
1:K:229:ILE:HG22	1:K:233:ARG:CD	2.28	0.50
1:K:327:ILE:HD13	1:K:353:ILE:HG21	1.92	0.50
1:K:1176:HIS:HB3	1:K:1218:THR:CG2	2.40	0.50
1:K:1228:ASP:O	1:K:1229:PHE:HB2	2.12	0.50
1:M:108:SER:HA	1:M:111:ARG:HD2	1.94	0.50
1:M:318:LYS:HD3	1:M:439:ASP:CB	2.41	0.50
1:M:337:ARG:HD3	1:M:341:TYR:HE2	1.76	0.50
1:M:416:GLN:NE2	1:M:416:GLN:CA	2.73	0.50
1:M:561:PRO:CB	1:M:1214:TYR:CD2	2.87	0.50
1:M:1153:ILE:HD11	1:M:1192:LEU:CD1	2.42	0.50
1:A:337:ARG:HD3	1:A:341:TYR:HE2	1.76	0.50
1:A:845:TYR:OH	1:A:888:VAL:O	2.25	0.50
1:C:108:SER:HA	1:C:111:ARG:HD2	1.94	0.50
1:C:779:LYS:NZ	1:C:827:HIS:O	2.43	0.50
1:C:1153:ILE:HD11	1:C:1192:LEU:CD1	2.42	0.50
1:E:125:VAL:O	1:E:125:VAL:HG12	2.11	0.50
1:E:546:GLU:HB3	1:E:570:GLU:OE1	2.11	0.50
1:E:781:ILE:HD11	1:E:826:ILE:HA	1.93	0.50
1:E:903:ASP:O	1:E:904:GLN:CB	2.57	0.50
1:E:1149:GLY:N	1:E:1180:VAL:CG2	2.74	0.50
1:G:337:ARG:HD3	1:G:341:TYR:HE2	1.76	0.50
1:G:353:ILE:O	1:G:354:ARG:HG2	2.11	0.50
1:I:1153:ILE:HD11	1:I:1192:LEU:CD1	2.42	0.50
1:K:160:LYS:NZ	1:K:160:LYS:CB	2.73	0.50
1:K:546:GLU:HB3	1:K:570:GLU:OE1	2.11	0.50
1:K:639:LEU:N	1:K:653:ILE:HG21	2.22	0.50
1:M:229:ILE:O	1:M:233:ARG:HG2	2.11	0.50
1:A:837:THR:HG21	1:A:843:ILE:HD11	1.92	0.50
1:A:1228:ASP:O	1:A:1229:PHE:CB	2.59	0.50
1:C:229:ILE:O	1:C:233:ARG:HG2	2.11	0.50
1:C:1247:LEU:CD1	1:C:1248:GLU:N	2.73	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:155:MET:HE2	1:E:441:GLN:HE21	1.77	0.50
1:E:241:ILE:C	1:E:242:LEU:CD1	2.81	0.50
1:E:528:GLU:O	1:E:532:ILE:HG22	2.10	0.50
1:G:244:ASP:O	1:G:245:VAL:CB	2.59	0.50
1:G:1149:GLY:N	1:G:1180:VAL:CG2	2.74	0.50
1:I:160:LYS:NZ	1:I:160:LYS:CB	2.73	0.50
1:I:903:ASP:O	1:I:904:GLN:CB	2.56	0.50
1:I:1031:ASN:HB3	1:I:1036:LYS:HB2	1.92	0.50
1:K:1153:ILE:HD11	1:K:1192:LEU:CD1	2.42	0.50
1:K:1167:PRO:CB	1:K:1202:TRP:CE2	2.93	0.50
1:M:945:ARG:HG2	1:M:946:LEU:HG	1.92	0.50
1:M:1228:ASP:O	1:M:1229:PHE:CB	2.59	0.50
1:A:529:TYR:HA	1:A:532:ILE:HG21	1.93	0.50
1:A:607:SER:CB	1:A:907:ARG:HG2	2.42	0.50
1:A:903:ASP:O	1:A:904:GLN:CB	2.57	0.50
1:A:1149:GLY:N	1:A:1180:VAL:CG2	2.74	0.50
1:C:333:ASP:OD1	1:C:333:ASP:N	2.44	0.50
1:C:337:ARG:HD3	1:C:341:TYR:HE2	1.76	0.50
1:C:621:ALA:HA	1:C:631:ALA:O	2.11	0.50
1:C:639:LEU:HD23	1:C:653:ILE:HD13	1.90	0.50
1:C:1149:GLY:N	1:C:1180:VAL:CG2	2.74	0.50
1:E:327:ILE:HD13	1:E:353:ILE:CG2	2.40	0.50
1:E:592:MET:HE2	1:E:592:MET:H	1.74	0.50
1:G:529:TYR:C	1:G:532:ILE:CG2	2.85	0.50
1:G:561:PRO:CB	1:G:1214:TYR:CD2	2.86	0.50
1:I:125:VAL:O	1:I:125:VAL:HG12	2.11	0.50
1:I:416:GLN:NE2	1:I:416:GLN:CA	2.73	0.50
1:I:862:TYR:CE2	1:I:881:HIS:CB	2.92	0.50
1:K:241:ILE:C	1:K:242:LEU:CD1	2.81	0.50
1:K:420:ASN:C	1:K:422:SER:H	2.20	0.50
1:M:229:ILE:HG22	1:M:233:ARG:CD	2.28	0.50
1:M:529:TYR:C	1:M:532:ILE:CG2	2.85	0.50
1:M:1149:GLY:N	1:M:1180:VAL:CG2	2.74	0.50
1:A:108:SER:HA	1:A:111:ARG:HD2	1.94	0.50
1:A:923:LYS:CG	1:A:940:VAL:HG23	2.42	0.50
1:C:507:LEU:CD1	1:C:579:GLN:HG2	2.42	0.50
1:C:598:ILE:O	1:C:598:ILE:HG13	2.10	0.50
1:C:1167:PRO:CB	1:C:1202:TRP:CE2	2.93	0.50
1:E:137:GLN:NE2	1:E:173:LEU:HB3	2.24	0.50
1:E:1176:HIS:CB	1:E:1218:THR:HB	2.36	0.50
1:G:457:HIS:NE2	1:G:493:SER:CB	2.72	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:548:LEU:O	1:G:551:ASN:N	2.45	0.50
1:I:108:SER:HA	1:I:111:ARG:HD2	1.94	0.50
1:I:244:ASP:O	1:I:245:VAL:CB	2.59	0.50
1:I:340:TYR:OH	1:I:352:ARG:HD2	2.12	0.50
1:I:1149:GLY:N	1:I:1180:VAL:CG2	2.74	0.50
1:K:461:ILE:CD1	1:K:491:MET:HG3	2.40	0.50
1:K:884:TRP:O	1:K:885:VAL:C	2.53	0.50
1:K:1149:GLY:N	1:K:1180:VAL:CG2	2.74	0.50
1:M:179:PRO:CG	1:M:237:ARG:HH11	2.17	0.50
1:M:398:LYS:O	1:M:402:ILE:HG12	2.10	0.50
1:M:557:ARG:HG3	1:M:558:GLN:N	2.27	0.50
1:M:1168:LEU:HD11	1:M:1171:GLU:CG	2.41	0.50
1:A:155:MET:HE2	1:A:441:GLN:HE21	1.77	0.50
1:A:326:LEU:HD23	1:A:353:ILE:CG2	2.41	0.50
1:A:572:GLU:OE1	1:A:572:GLU:HA	2.11	0.50
1:C:326:LEU:HD23	1:C:353:ILE:CG2	2.41	0.50
1:C:353:ILE:O	1:C:354:ARG:HG2	2.11	0.50
1:E:229:ILE:O	1:E:233:ARG:HG2	2.11	0.50
1:E:353:ILE:O	1:E:354:ARG:HG2	2.11	0.50
1:E:561:PRO:O	1:E:563:ILE:N	2.44	0.50
1:E:1178:GLY:O	1:E:1179:TRP:CB	2.60	0.50
1:G:744:ASN:HB3	1:G:763:ALA:HB3	1.93	0.50
1:G:1247:LEU:CD1	1:G:1248:GLU:N	2.73	0.50
1:I:332:ARG:CG	1:I:332:ARG:NH1	2.73	0.50
1:I:505:PHE:HZ	1:I:540:VAL:CG1	2.17	0.50
1:I:639:LEU:N	1:I:653:ILE:HG21	2.22	0.50
1:I:779:LYS:NZ	1:I:827:HIS:O	2.43	0.50
1:K:389:LEU:HD21	1:K:395:VAL:CG1	2.42	0.50
1:K:557:ARG:HG3	1:K:558:GLN:N	2.27	0.50
1:K:595:LEU:HD13	1:K:1244:LEU:HD13	1.93	0.50
1:M:420:ASN:C	1:M:422:SER:H	2.20	0.50
1:M:507:LEU:CD1	1:M:579:GLN:HG2	2.42	0.50
1:M:597:TRP:CZ2	1:M:603:ILE:CG1	2.94	0.50
1:M:781:ILE:HD11	1:M:826:ILE:HA	1.94	0.50
1:M:1167:PRO:CB	1:M:1202:TRP:CE2	2.93	0.50
1:M:1201:TRP:CE3	1:M:1210:SER:CB	2.87	0.50
1:A:523:ILE:HG12	1:A:548:LEU:HD13	1.94	0.49
1:A:592:MET:HE2	1:A:592:MET:H	1.74	0.49
1:C:561:PRO:CB	1:C:1214:TYR:CD2	2.86	0.49
1:E:108:SER:HA	1:E:111:ARG:HD2	1.94	0.49
1:E:529:TYR:C	1:E:532:ILE:CG2	2.85	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1200:LYS:CD	1:E:1202:TRP:CE2	2.81	0.49
1:G:546:GLU:HB3	1:G:570:GLU:OE1	2.11	0.49
1:I:548:LEU:O	1:I:551:ASN:N	2.45	0.49
1:I:557:ARG:HG3	1:I:558:GLN:N	2.27	0.49
1:I:883:SER:HB2	1:I:902:ASP:CB	2.39	0.49
1:K:155:MET:HE2	1:K:441:GLN:HE21	1.77	0.49
1:K:229:ILE:O	1:K:233:ARG:HG2	2.11	0.49
1:K:1136:SER:HB2	1:K:1139:SER:HB3	1.94	0.49
1:M:544:PHE:HD1	1:M:576:VAL:CG1	2.17	0.49
1:M:862:TYR:CE2	1:M:881:HIS:CB	2.92	0.49
1:M:1174:ALA:C	1:M:1175:THR:HG23	2.36	0.49
1:A:389:LEU:HD21	1:A:395:VAL:CG1	2.42	0.49
1:A:419:VAL:HG11	1:A:426:CYS:HG	1.72	0.49
1:A:625:GLU:HG3	1:A:667:THR:HA	1.93	0.49
1:A:1183:LEU:N	1:A:1183:LEU:CD1	2.73	0.49
1:A:1200:LYS:CD	1:A:1202:TRP:CE2	2.81	0.49
1:A:1225:VAL:HG12	1:A:1229:PHE:HA	1.94	0.49
1:C:523:ILE:HG12	1:C:548:LEU:HD13	1.94	0.49
1:C:531:HIS:ND1	1:C:531:HIS:N	2.60	0.49
1:C:1187:PRO:HG2	1:C:1229:PHE:CB	2.42	0.49
1:C:1225:VAL:HG12	1:C:1229:PHE:HA	1.94	0.49
1:E:390:GLN:CD	1:E:489:TYR:HE2	2.21	0.49
1:E:1153:ILE:HD11	1:E:1192:LEU:CD1	2.42	0.49
1:G:557:ARG:HG3	1:G:558:GLN:N	2.27	0.49
1:I:327:ILE:HD13	1:I:353:ILE:HG21	1.92	0.49
1:I:625:GLU:HG3	1:I:667:THR:HA	1.93	0.49
1:I:1212:THR:CG2	1:I:1213:PHE:H	2.12	0.49
1:K:529:TYR:C	1:K:532:ILE:CG2	2.85	0.49
1:K:607:SER:CB	1:K:907:ARG:HG2	2.42	0.49
1:K:639:LEU:CG	1:K:653:ILE:HG21	2.36	0.49
1:K:922:LEU:CD1	1:K:1241:LEU:CD2	2.87	0.49
1:K:1187:PRO:HG2	1:K:1229:PHE:CB	2.42	0.49
1:M:332:ARG:CG	1:M:332:ARG:NH1	2.73	0.49
1:M:389:LEU:HD21	1:M:395:VAL:CG1	2.41	0.49
1:M:390:GLN:CD	1:M:489:TYR:HE2	2.21	0.49
1:M:677:VAL:HG13	1:M:701:GLN:HG2	1.94	0.49
1:M:1213:PHE:O	1:M:1214:TYR:CB	2.49	0.49
2:N:18:HIS:NE2	5:N:201:HEM:CHD	2.72	0.49
1:A:125:VAL:O	1:A:125:VAL:HG12	2.11	0.49
1:A:340:TYR:OH	1:A:352:ARG:HD2	2.12	0.49
1:A:391:LYS:HA	1:A:442:VAL:HG21	1.94	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1181:THR:CG2	1:A:1221:LYS:HA	2.40	0.49
1:C:125:VAL:O	1:C:125:VAL:HG12	2.11	0.49
1:C:389:LEU:HD21	1:C:395:VAL:CG1	2.42	0.49
1:C:544:PHE:HD1	1:C:576:VAL:CG1	2.16	0.49
1:C:1151:ILE:H	1:C:1167:PRO:CD	2.19	0.49
1:E:557:ARG:HG3	1:E:558:GLN:N	2.27	0.49
1:E:570:GLU:CG	1:E:571:PRO:HD2	2.42	0.49
1:E:572:GLU:OE1	1:E:572:GLU:HA	2.11	0.49
1:G:108:SER:HA	1:G:111:ARG:HD2	1.94	0.49
1:G:595:LEU:HD13	1:G:1244:LEU:HD13	1.93	0.49
1:G:607:SER:CB	1:G:907:ARG:HG2	2.42	0.49
1:G:667:THR:OG1	1:G:708:THR:O	2.29	0.49
1:G:903:ASP:O	1:G:904:GLN:CB	2.56	0.49
1:G:1153:ILE:HD11	1:G:1192:LEU:CD1	2.42	0.49
1:G:1178:GLY:O	1:G:1179:TRP:CB	2.60	0.49
1:I:572:GLU:OE1	1:I:572:GLU:HA	2.12	0.49
1:K:1031:ASN:HB3	1:K:1036:LYS:HB2	1.92	0.49
1:K:1174:ALA:C	1:K:1175:THR:HG23	2.36	0.49
1:M:347:ASN:O	1:M:348:LYS:CB	2.59	0.49
1:M:657:GLU:HB3	1:M:680:LYS:HD2	1.92	0.49
1:M:1006:VAL:HA	1:M:1022:SER:HB2	1.94	0.49
1:M:1136:SER:HB2	1:M:1139:SER:HB3	1.94	0.49
1:M:1220:LEU:HD11	1:M:1236:ASP:OD2	2.12	0.49
1:A:557:ARG:HG3	1:A:558:GLN:N	2.27	0.49
1:A:1006:VAL:HA	1:A:1022:SER:HB2	1.94	0.49
1:C:155:MET:HE2	1:C:441:GLN:HE21	1.77	0.49
1:C:781:ILE:HD11	1:C:826:ILE:HA	1.93	0.49
1:C:1168:LEU:HD11	1:C:1171:GLU:HG2	1.94	0.49
1:E:1225:VAL:HG12	1:E:1229:PHE:HA	1.94	0.49
1:G:146:GLU:HG2	1:I:111:ARG:NH1	2.19	0.49
1:G:391:LYS:HA	1:G:442:VAL:HG21	1.94	0.49
1:G:420:ASN:C	1:G:422:SER:H	2.20	0.49
1:G:507:LEU:CD1	1:G:579:GLN:HG2	2.42	0.49
1:G:570:GLU:CG	1:G:571:PRO:HD2	2.42	0.49
1:G:1187:PRO:CG	1:G:1229:PHE:HB3	2.40	0.49
1:G:1228:ASP:O	1:G:1229:PHE:CB	2.59	0.49
1:G:1236:ASP:OD1	1:G:1236:ASP:N	2.43	0.49
1:I:391:LYS:HA	1:I:442:VAL:HG21	1.94	0.49
1:I:607:SER:CB	1:I:907:ARG:HG2	2.42	0.49
1:I:1016:LYS:HA	1:I:1032:TRP:NE1	2.28	0.49
1:I:1183:LEU:N	1:I:1183:LEU:CD1	2.73	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:244:ASP:O	1:K:245:VAL:CB	2.59	0.49
1:K:625:GLU:HG3	1:K:667:THR:HA	1.93	0.49
1:M:244:ASP:O	1:M:245:VAL:CB	2.59	0.49
1:A:195:LEU:HD12	1:A:195:LEU:C	2.36	0.49
1:A:862:TYR:HD1	1:A:885:VAL:H	1.56	0.49
1:A:1174:ALA:C	1:A:1175:THR:HG23	2.36	0.49
1:C:138:GLN:NE2	1:C:139:LYS:N	2.60	0.49
1:C:334:PHE:CB	1:C:337:ARG:CD	2.87	0.49
1:C:453:LEU:CD1	1:C:454:GLN:N	2.73	0.49
1:C:1016:LYS:HA	1:C:1032:TRP:NE1	2.28	0.49
1:E:548:LEU:O	1:E:551:ASN:N	2.45	0.49
1:E:853:HIS:O	1:E:869:THR:N	2.39	0.49
1:E:1247:LEU:CD1	1:E:1248:GLU:N	2.73	0.49
1:G:138:GLN:NE2	1:G:139:LYS:N	2.60	0.49
1:G:334:PHE:CB	1:G:337:ARG:CD	2.87	0.49
1:G:544:PHE:HD1	1:G:576:VAL:CG1	2.17	0.49
1:G:883:SER:HB2	1:G:902:ASP:CB	2.39	0.49
1:I:496:MET:HE3	1:I:496:MET:CA	2.31	0.49
1:I:507:LEU:CD1	1:I:579:GLN:HG2	2.42	0.49
1:I:595:LEU:HG	1:I:1201:TRP:HH2	1.71	0.49
1:K:453:LEU:CD1	1:K:454:GLN:N	2.73	0.49
1:K:507:LEU:CD1	1:K:579:GLN:HG2	2.42	0.49
1:K:677:VAL:HG13	1:K:701:GLN:HG2	1.94	0.49
1:K:1016:LYS:HA	1:K:1032:TRP:NE1	2.28	0.49
1:K:1247:LEU:CD1	1:K:1248:GLU:N	2.73	0.49
1:M:923:LYS:CB	1:M:940:VAL:HG21	2.41	0.49
1:M:1181:THR:CG2	1:M:1221:LYS:HA	2.40	0.49
1:A:283:GLU:OE1	1:A:284:SER:O	2.31	0.49
1:A:505:PHE:CZ	1:A:540:VAL:CG1	2.90	0.49
1:A:1016:LYS:HA	1:A:1032:TRP:NE1	2.27	0.49
1:A:1220:LEU:CD1	1:A:1236:ASP:OD2	2.61	0.49
1:C:557:ARG:HG3	1:C:558:GLN:N	2.27	0.49
1:C:570:GLU:CG	1:C:571:PRO:HD2	2.42	0.49
1:C:1183:LEU:N	1:C:1183:LEU:CD1	2.73	0.49
1:C:1220:LEU:CD1	1:C:1236:ASP:OD2	2.61	0.49
1:C:1228:ASP:O	1:C:1229:PHE:HB2	2.12	0.49
1:E:333:ASP:OD1	1:E:333:ASP:N	2.44	0.49
1:E:507:LEU:CD1	1:E:579:GLN:HG2	2.42	0.49
1:E:1016:LYS:HA	1:E:1032:TRP:NE1	2.28	0.49
1:E:1136:SER:HB2	1:E:1139:SER:HB3	1.94	0.49
1:E:1168:LEU:HD11	1:E:1171:GLU:HG2	1.94	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1220:LEU:HD11	1:E:1236:ASP:OD2	2.12	0.49
1:G:1016:LYS:HA	1:G:1032:TRP:NE1	2.28	0.49
1:G:1168:LEU:HD11	1:G:1171:GLU:HG2	1.94	0.49
1:G:1232:TYR:OH	1:G:1234:THR:CB	2.59	0.49
1:I:140:LEU:O	1:I:143:LEU:HD22	2.13	0.49
1:I:529:TYR:C	1:I:532:ILE:CG2	2.85	0.49
1:K:390:GLN:CD	1:K:489:TYR:HE2	2.21	0.49
1:K:1006:VAL:HA	1:K:1022:SER:HB2	1.94	0.49
1:K:1220:LEU:HD11	1:K:1236:ASP:OD2	2.13	0.49
1:M:340:TYR:OH	1:M:352:ARG:HD2	2.12	0.49
1:M:391:LYS:HA	1:M:442:VAL:HG21	1.94	0.49
1:M:607:SER:CB	1:M:907:ARG:HG2	2.42	0.49
1:A:390:GLN:CD	1:A:489:TYR:HE2	2.21	0.49
1:A:818:LYS:HD3	1:A:842:THR:HG23	1.95	0.49
1:A:1168:LEU:HD11	1:A:1171:GLU:HG2	1.94	0.49
1:C:327:ILE:CD1	1:C:353:ILE:HG21	2.43	0.49
1:C:390:GLN:CD	1:C:489:TYR:HE2	2.21	0.49
1:C:922:LEU:CD1	1:C:1241:LEU:CD2	2.87	0.49
1:C:1176:HIS:HB2	1:C:1218:THR:CB	2.38	0.49
1:E:420:ASN:C	1:E:422:SER:H	2.20	0.49
1:E:677:VAL:HG13	1:E:701:GLN:HG2	1.94	0.49
1:E:1220:LEU:CD1	1:E:1236:ASP:OD2	2.61	0.49
1:G:332:ARG:CG	1:G:332:ARG:NH1	2.73	0.49
1:G:340:TYR:OH	1:G:352:ARG:HD2	2.12	0.49
1:G:390:GLN:CD	1:G:489:TYR:HE2	2.21	0.49
1:G:496:MET:HE3	1:G:496:MET:CA	2.31	0.49
1:G:818:LYS:HD3	1:G:842:THR:HG23	1.95	0.49
1:I:138:GLN:NE2	1:I:139:LYS:N	2.60	0.49
1:I:531:HIS:N	1:I:531:HIS:ND1	2.60	0.49
1:I:744:ASN:HB3	1:I:763:ALA:HB3	1.93	0.49
1:I:879:ARG:CB	1:I:921:MET:SD	3.01	0.49
1:I:1178:GLY:O	1:I:1179:TRP:CB	2.60	0.49
1:K:340:TYR:OH	1:K:352:ARG:HD2	2.12	0.49
1:K:434:ARG:HG3	1:K:434:ARG:NH2	2.28	0.49
1:K:920:VAL:HG12	1:K:921:MET:N	2.24	0.49
1:K:1220:LEU:CD1	1:K:1236:ASP:OD2	2.61	0.49
1:M:283:GLU:OE1	1:M:284:SER:O	2.31	0.49
1:M:1228:ASP:O	1:M:1229:PHE:HB2	2.12	0.49
1:A:138:GLN:NE2	1:A:139:LYS:N	2.60	0.49
1:A:143:LEU:CD2	1:A:143:LEU:N	2.75	0.49
1:A:529:TYR:C	1:A:532:ILE:CG2	2.85	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:531:HIS:ND1	1:A:531:HIS:N	2.60	0.49
1:C:818:LYS:HD3	1:C:842:THR:HG23	1.95	0.49
1:E:389:LEU:HD21	1:E:395:VAL:CG1	2.42	0.49
1:E:607:SER:CB	1:E:907:ARG:HG2	2.42	0.49
1:E:818:LYS:HD3	1:E:842:THR:HG23	1.95	0.49
1:E:845:TYR:OH	1:E:888:VAL:O	2.25	0.49
1:E:883:SER:HB2	1:E:902:ASP:CB	2.39	0.49
1:G:431:LYS:HZ3	1:I:336:ASN:CB	2.12	0.49
1:G:639:LEU:N	1:G:653:ILE:HG21	2.22	0.49
1:G:669:ASP:O	1:G:686:SER:OG	2.27	0.49
1:G:1136:SER:HB2	1:G:1139:SER:HB3	1.94	0.49
2:H:14:CYS:CB	5:H:201:HEM:HAB	2.43	0.49
1:I:818:LYS:HD3	1:I:842:THR:HG23	1.95	0.49
1:K:140:LEU:O	1:K:143:LEU:HD22	2.13	0.49
1:K:317:CYS:SG	1:K:323:VAL:CG1	2.98	0.49
1:K:879:ARG:CB	1:K:921:MET:SD	3.01	0.49
1:K:1174:ALA:C	1:K:1175:THR:CG2	2.86	0.49
1:M:138:GLN:NE2	1:M:139:LYS:N	2.60	0.49
1:M:140:LEU:O	1:M:143:LEU:HD22	2.13	0.49
1:M:155:MET:HE2	1:M:441:GLN:HE21	1.77	0.49
1:M:1016:LYS:HA	1:M:1032:TRP:NE1	2.28	0.49
1:M:1220:LEU:CD1	1:M:1236:ASP:OD2	2.61	0.49
2:N:14:CYS:CB	5:N:201:HEM:HAB	2.43	0.49
1:A:781:ILE:HD11	1:A:826:ILE:HA	1.93	0.49
1:A:1220:LEU:HD11	1:A:1236:ASP:OD2	2.12	0.49
1:C:143:LEU:CD2	1:C:143:LEU:N	2.75	0.49
1:C:374:MET:CE	1:C:374:MET:CA	2.85	0.49
1:C:391:LYS:HA	1:C:442:VAL:HG21	1.94	0.49
1:C:457:HIS:NE2	1:C:493:SER:CB	2.72	0.49
1:C:1006:VAL:HA	1:C:1022:SER:HB2	1.94	0.49
1:E:327:ILE:CD1	1:E:353:ILE:HG21	2.43	0.49
1:E:434:ARG:HG3	1:E:434:ARG:NH2	2.28	0.49
1:E:1213:PHE:HE2	1:E:1215:THR:CA	2.26	0.49
1:G:523:ILE:HG12	1:G:548:LEU:HD13	1.94	0.49
1:G:531:HIS:ND1	1:G:531:HIS:N	2.61	0.49
1:G:879:ARG:CB	1:G:921:MET:SD	3.01	0.49
1:I:420:ASN:C	1:I:422:SER:H	2.20	0.49
1:I:677:VAL:HG13	1:I:701:GLN:HG2	1.94	0.49
1:I:1168:LEU:HD11	1:I:1171:GLU:HG2	1.94	0.49
1:I:1213:PHE:HE2	1:I:1215:THR:CA	2.26	0.49
1:I:1236:ASP:OD1	1:I:1236:ASP:N	2.43	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:572:GLU:OE1	1:K:572:GLU:HA	2.12	0.49
1:K:1200:LYS:CD	1:K:1202:TRP:CE2	2.81	0.49
1:M:327:ILE:CD1	1:M:353:ILE:HG21	2.43	0.49
1:M:394:LYS:CB	1:M:434:ARG:CB	2.80	0.49
1:M:434:ARG:HG3	1:M:434:ARG:NH2	2.28	0.49
1:M:505:PHE:HZ	1:M:540:VAL:CG1	2.17	0.49
1:M:879:ARG:CB	1:M:921:MET:SD	3.01	0.49
1:M:1176:HIS:HB3	1:M:1218:THR:CG2	2.40	0.49
1:A:231:MET:SD	1:A:258:CYS:SG	2.97	0.49
1:A:327:ILE:CD1	1:A:353:ILE:HG21	2.43	0.49
1:E:196:LEU:HD11	1:E:200:GLN:HE21	1.78	0.49
1:E:340:TYR:OH	1:E:352:ARG:HD2	2.12	0.49
1:E:505:PHE:CZ	1:E:540:VAL:CG1	2.90	0.49
1:E:1152:ARG:NE	1:E:1164:LEU:HD23	2.28	0.49
1:G:327:ILE:CD1	1:G:353:ILE:HG21	2.43	0.49
1:G:434:ARG:HG3	1:G:434:ARG:NH2	2.28	0.49
1:G:572:GLU:OE1	1:G:572:GLU:HA	2.11	0.49
1:G:677:VAL:HG13	1:G:701:GLN:HG2	1.94	0.49
1:G:1225:VAL:HG12	1:G:1229:PHE:HA	1.94	0.49
1:G:1233:VAL:CB	1:G:1243:ILE:HA	2.43	0.49
1:I:434:ARG:HG3	1:I:434:ARG:NH2	2.28	0.49
1:K:138:GLN:NE2	1:K:139:LYS:N	2.60	0.49
1:K:231:MET:SD	1:K:258:CYS:SG	2.97	0.49
1:K:1178:GLY:O	1:K:1179:TRP:CB	2.60	0.49
1:M:625:GLU:HG3	1:M:667:THR:HA	1.93	0.49
1:M:818:LYS:HD3	1:M:842:THR:HG23	1.95	0.49
1:M:1236:ASP:OD1	1:M:1236:ASP:N	2.43	0.49
1:A:140:LEU:O	1:A:143:LEU:HD22	2.13	0.48
1:A:171:HIS:NE2	1:A:175:GLU:CB	2.76	0.48
1:A:179:PRO:CG	1:A:237:ARG:HH11	2.17	0.48
1:A:677:VAL:HG13	1:A:701:GLN:HG2	1.94	0.48
1:A:864:VAL:HG22	1:A:885:VAL:HG11	1.95	0.48
1:A:999:ARG:CD	1:A:1030:TRP:CE2	2.96	0.48
1:A:1152:ARG:NE	1:A:1164:LEU:HD23	2.28	0.48
1:C:140:LEU:O	1:C:143:LEU:HD22	2.13	0.48
1:C:607:SER:CB	1:C:907:ARG:HG2	2.42	0.48
1:C:639:LEU:N	1:C:653:ILE:HG21	2.22	0.48
1:C:1136:SER:HB2	1:C:1139:SER:HB3	1.94	0.48
1:C:1220:LEU:HD11	1:C:1236:ASP:OD2	2.12	0.48
1:E:391:LYS:HA	1:E:442:VAL:HG21	1.94	0.48
1:E:1176:HIS:O	1:E:1197:GLY:CA	2.59	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:196:LEU:HD11	1:G:200:GLN:HE21	1.78	0.48
1:I:171:HIS:NE2	1:I:175:GLU:CB	2.76	0.48
1:I:570:GLU:CG	1:I:571:PRO:HD2	2.42	0.48
1:I:1136:SER:HB2	1:I:1139:SER:HB3	1.94	0.48
1:K:196:LEU:HD11	1:K:200:GLN:HE21	1.78	0.48
1:K:523:ILE:HG12	1:K:548:LEU:HD13	1.94	0.48
1:K:999:ARG:CD	1:K:1030:TRP:CE2	2.96	0.48
1:M:334:PHE:CB	1:M:337:ARG:CD	2.87	0.48
1:M:529:TYR:HA	1:M:532:ILE:HG21	1.93	0.48
1:M:667:THR:OG1	1:M:708:THR:O	2.29	0.48
1:M:864:VAL:HG22	1:M:885:VAL:HG11	1.95	0.48
1:M:1225:VAL:HG12	1:M:1229:PHE:HA	1.94	0.48
1:M:1233:VAL:CB	1:M:1243:ILE:HA	2.43	0.48
1:A:507:LEU:CD1	1:A:579:GLN:HG2	2.42	0.48
1:A:1176:HIS:O	1:A:1197:GLY:CA	2.59	0.48
1:C:246:TRP:CD1	1:C:246:TRP:N	2.81	0.48
1:C:420:ASN:C	1:C:422:SER:H	2.20	0.48
1:C:494:ALA:HB1	1:C:496:MET:HG2	1.95	0.48
1:C:572:GLU:OE1	1:C:572:GLU:HA	2.11	0.48
1:C:1233:VAL:CB	1:C:1243:ILE:HA	2.43	0.48
1:E:140:LEU:C	1:E:140:LEU:CD1	2.86	0.48
1:E:246:TRP:CD1	1:E:246:TRP:N	2.81	0.48
1:E:453:LEU:CD1	1:E:454:GLN:N	2.73	0.48
1:E:1187:PRO:CG	1:E:1229:PHE:HB3	2.40	0.48
1:G:342:LEU:O	1:G:346:GLN:HG2	2.13	0.48
1:G:1152:ARG:NE	1:G:1164:LEU:HD23	2.28	0.48
1:I:494:ALA:HB1	1:I:496:MET:HG2	1.95	0.48
1:I:561:PRO:CB	1:I:1214:TYR:CD2	2.86	0.48
1:I:1174:ALA:C	1:I:1175:THR:CG2	2.86	0.48
1:K:143:LEU:CD2	1:K:143:LEU:N	2.75	0.48
1:K:579:GLN:NE2	1:K:583:GLN:HB2	2.28	0.48
1:K:1152:ARG:NE	1:K:1164:LEU:HD23	2.28	0.48
1:K:1233:VAL:CB	1:K:1243:ILE:HA	2.43	0.48
1:M:143:LEU:CD2	1:M:143:LEU:N	2.75	0.48
1:M:579:GLN:NE2	1:M:583:GLN:HB2	2.28	0.48
1:M:923:LYS:CG	1:M:940:VAL:HG23	2.42	0.48
1:M:999:ARG:CD	1:M:1030:TRP:CE2	2.96	0.48
1:A:196:LEU:HD11	1:A:200:GLN:HE21	1.78	0.48
1:A:494:ALA:HB1	1:A:496:MET:HG2	1.95	0.48
1:A:879:ARG:CB	1:A:921:MET:CE	2.73	0.48
1:A:1067:VAL:N	1:A:1081:PHE:O	2.40	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1174:ALA:C	1:A:1175:THR:CG2	2.86	0.48
1:C:196:LEU:HD11	1:C:200:GLN:HE21	1.78	0.48
1:C:317:CYS:SG	1:C:323:VAL:CG1	2.98	0.48
1:C:529:TYR:C	1:C:532:ILE:CG2	2.85	0.48
1:C:677:VAL:HG13	1:C:701:GLN:HG2	1.94	0.48
1:C:1176:HIS:O	1:C:1197:GLY:CA	2.59	0.48
1:C:1213:PHE:HE2	1:C:1215:THR:CA	2.26	0.48
1:E:171:HIS:NE2	1:E:175:GLU:CB	2.76	0.48
1:E:457:HIS:NE2	1:E:493:SER:CB	2.72	0.48
1:E:494:ALA:HB1	1:E:496:MET:HG2	1.95	0.48
1:E:523:ILE:HG12	1:E:548:LEU:HD13	1.94	0.48
1:E:1173:ALA:O	1:E:1174:ALA:C	2.57	0.48
1:G:140:LEU:C	1:G:140:LEU:CD1	2.86	0.48
1:G:595:LEU:HD22	1:G:1244:LEU:HD12	1.78	0.48
1:G:1220:LEU:CD1	1:G:1236:ASP:OD2	2.61	0.48
1:I:155:MET:HE2	1:I:441:GLN:HE21	1.76	0.48
1:K:246:TRP:CD1	1:K:246:TRP:N	2.81	0.48
1:K:347:ASN:O	1:K:348:LYS:CB	2.59	0.48
1:K:391:LYS:HA	1:K:442:VAL:HG21	1.94	0.48
1:K:570:GLU:CG	1:K:571:PRO:HD2	2.42	0.48
1:K:595:LEU:HG	1:K:1201:TRP:HH2	1.71	0.48
1:K:864:VAL:HG22	1:K:885:VAL:HG11	1.95	0.48
1:K:1173:ALA:O	1:K:1174:ALA:C	2.57	0.48
1:K:1176:HIS:O	1:K:1197:GLY:CA	2.59	0.48
1:M:779:LYS:NZ	1:M:827:HIS:O	2.43	0.48
1:M:862:TYR:HD1	1:M:885:VAL:H	1.56	0.48
1:M:1174:ALA:C	1:M:1175:THR:CG2	2.86	0.48
1:A:570:GLU:CG	1:A:571:PRO:HD2	2.42	0.48
1:A:597:TRP:CZ2	1:A:603:ILE:CG1	2.94	0.48
1:A:920:VAL:C	1:A:921:MET:CG	2.85	0.48
1:C:283:GLU:OE1	1:C:284:SER:O	2.31	0.48
1:C:473:LEU:HD22	1:C:484:TYR:CE1	2.43	0.48
1:C:864:VAL:HG22	1:C:885:VAL:HG11	1.95	0.48
1:C:1208:GLU:HG3	1:C:1211:GLN:CG	2.44	0.48
1:E:342:LEU:O	1:E:346:GLN:HG2	2.13	0.48
1:G:246:TRP:CD1	1:G:246:TRP:N	2.81	0.48
1:I:523:ILE:HG12	1:I:548:LEU:HD13	1.94	0.48
1:I:579:GLN:NE2	1:I:583:GLN:HB2	2.28	0.48
1:I:1006:VAL:HA	1:I:1022:SER:HB2	1.94	0.48
1:I:1208:GLU:HG3	1:I:1211:GLN:CG	2.44	0.48
1:I:1220:LEU:HD11	1:I:1236:ASP:OD2	2.12	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:283:GLU:OE1	1:K:284:SER:O	2.31	0.48
1:K:531:HIS:ND1	1:K:531:HIS:N	2.60	0.48
1:M:494:ALA:HB1	1:M:496:MET:HG2	1.95	0.48
1:A:1136:SER:HA	1:A:1185:PHE:HD2	1.78	0.48
1:A:1175:THR:HG1	1:A:1176:HIS:CE1	2.31	0.48
1:C:155:MET:HE2	1:C:155:MET:HB2	1.69	0.48
1:C:340:TYR:OH	1:C:352:ARG:HD2	2.12	0.48
1:C:529:TYR:HA	1:C:532:ILE:HG21	1.93	0.48
1:C:845:TYR:OH	1:C:888:VAL:O	2.25	0.48
1:E:283:GLU:OE1	1:E:284:SER:O	2.31	0.48
1:E:595:LEU:CD2	1:E:1244:LEU:CD1	2.48	0.48
1:E:923:LYS:CB	1:E:940:VAL:HG21	2.41	0.48
1:E:1233:VAL:CB	1:E:1243:ILE:HA	2.43	0.48
1:G:283:GLU:OE1	1:G:284:SER:O	2.31	0.48
1:G:902:ASP:CB	2:H:72:LYS:HZ1	2.27	0.48
1:G:1006:VAL:HA	1:G:1022:SER:HB2	1.94	0.48
1:I:327:ILE:CD1	1:I:353:ILE:HG21	2.43	0.48
1:I:390:GLN:CD	1:I:489:TYR:HE2	2.21	0.48
1:I:864:VAL:HG22	1:I:885:VAL:HG11	1.95	0.48
1:I:1187:PRO:HG2	1:I:1229:PHE:CB	2.42	0.48
1:I:1220:LEU:CD1	1:I:1236:ASP:OD2	2.61	0.48
1:K:342:LEU:O	1:K:346:GLN:HG2	2.13	0.48
1:K:507:LEU:HA	1:K:510:ILE:HD12	1.96	0.48
1:K:548:LEU:O	1:K:551:ASN:N	2.45	0.48
1:K:1213:PHE:HE2	1:K:1215:THR:CA	2.26	0.48
1:M:229:ILE:CG2	1:M:233:ARG:HD3	2.31	0.48
1:M:523:ILE:HG12	1:M:548:LEU:HD13	1.94	0.48
1:M:567:GLY:O	1:M:569:CYS:N	2.41	0.48
1:A:639:LEU:N	1:A:653:ILE:HG21	2.22	0.48
1:A:1173:ALA:O	1:A:1174:ALA:C	2.57	0.48
1:A:1228:ASP:O	1:A:1229:PHE:HB2	2.12	0.48
1:A:1233:VAL:CB	1:A:1243:ILE:HA	2.43	0.48
1:C:639:LEU:CG	1:C:653:ILE:HD12	2.43	0.48
1:C:667:THR:OG1	1:C:708:THR:O	2.29	0.48
1:C:879:ARG:CB	1:C:921:MET:SD	3.01	0.48
1:C:1187:PRO:CG	1:C:1229:PHE:HB3	2.40	0.48
1:C:1200:LYS:CD	1:C:1202:TRP:CE2	2.81	0.48
1:E:138:GLN:NE2	1:E:139:LYS:N	2.60	0.48
1:E:143:LEU:CD2	1:E:143:LEU:N	2.75	0.48
1:E:747:ASN:ND2	1:E:801:VAL:O	2.38	0.48
1:E:1174:ALA:C	1:E:1175:THR:CG2	2.86	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1232:TYR:OH	1:E:1234:THR:CB	2.59	0.48
1:G:140:LEU:O	1:G:143:LEU:HD22	2.13	0.48
1:G:143:LEU:CD2	1:G:143:LEU:N	2.75	0.48
1:I:143:LEU:CD2	1:I:143:LEU:N	2.75	0.48
1:I:196:LEU:HD11	1:I:200:GLN:HE21	1.78	0.48
1:I:237:ARG:NH1	1:I:237:ARG:HG2	2.29	0.48
1:I:920:VAL:HG12	1:I:921:MET:N	2.25	0.48
1:K:147:PRO:HG3	1:M:121:GLN:HE22	1.79	0.48
1:K:374:MET:N	1:K:374:MET:SD	2.87	0.48
1:K:614:HIS:HE1	1:K:640:GLN:CG	1.83	0.48
1:K:762:SER:OG	1:K:764:ASP:OD1	2.25	0.48
1:K:818:LYS:HD3	1:K:842:THR:HG23	1.95	0.48
1:K:1168:LEU:HD11	1:K:1171:GLU:HG2	1.94	0.48
1:M:171:HIS:NE2	1:M:175:GLU:CB	2.76	0.48
1:M:461:ILE:HD11	1:M:491:MET:CG	2.44	0.48
1:M:507:LEU:HA	1:M:510:ILE:HD12	1.96	0.48
1:M:531:HIS:ND1	1:M:531:HIS:N	2.60	0.48
1:M:1220:LEU:HD23	1:M:1234:THR:CG2	2.43	0.48
1:A:147:PRO:HG3	1:C:121:GLN:HE22	1.79	0.48
1:A:332:ARG:CG	1:A:332:ARG:NH1	2.73	0.48
1:A:359:TYR:HE1	1:A:361:TYR:CD1	2.32	0.48
1:A:553:HIS:CB	1:A:610:VAL:CG1	2.89	0.48
1:A:1171:GLU:CG	1:A:1172:GLY:N	2.68	0.48
1:C:145:GLY:O	1:C:146:GLU:HB2	2.14	0.48
1:C:374:MET:N	1:C:374:MET:SD	2.87	0.48
1:C:570:GLU:OE2	1:C:571:PRO:HD2	2.14	0.48
1:E:407:GLU:H	1:E:407:GLU:HG2	1.47	0.48
1:E:461:ILE:HD11	1:E:491:MET:CG	2.44	0.48
1:E:570:GLU:OE2	1:E:571:PRO:HD2	2.14	0.48
1:E:879:ARG:CB	1:E:921:MET:SD	3.01	0.48
2:F:14:CYS:CB	5:F:201:HEM:HAB	2.43	0.48
1:G:147:PRO:HG3	1:I:121:GLN:HE22	1.79	0.48
1:G:171:HIS:NE2	1:G:175:GLU:CB	2.76	0.48
1:G:579:GLN:NE2	1:G:583:GLN:HB2	2.28	0.48
1:G:864:VAL:HG22	1:G:885:VAL:HG11	1.95	0.48
1:I:1151:ILE:H	1:I:1167:PRO:CD	2.19	0.48
2:J:14:CYS:CB	5:J:201:HEM:HAB	2.43	0.48
1:K:140:LEU:C	1:K:140:LEU:CD1	2.86	0.48
1:K:252:LYS:CE	1:K:252:LYS:CA	2.92	0.48
1:K:319:GLY:O	1:K:321:PRO:HD3	2.14	0.48
1:K:741:GLY:HA3	1:K:770:TRP:HZ2	1.78	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:1225:VAL:HG12	1:K:1229:PHE:HA	1.94	0.48
2:L:14:CYS:CB	5:L:201:HEM:HAB	2.43	0.48
1:M:342:LEU:O	1:M:346:GLN:HG2	2.13	0.48
1:M:374:MET:N	1:M:374:MET:SD	2.87	0.48
1:M:553:HIS:CB	1:M:610:VAL:CG1	2.89	0.48
1:M:570:GLU:CG	1:M:571:PRO:HD2	2.42	0.48
1:A:145:GLY:O	1:A:146:GLU:HB2	2.14	0.48
1:A:260:ILE:O	1:A:260:ILE:HG13	2.05	0.48
1:A:319:GLY:O	1:A:321:PRO:HD3	2.14	0.48
1:A:374:MET:SD	1:A:374:MET:N	2.87	0.48
1:A:507:LEU:HA	1:A:510:ILE:HD12	1.96	0.48
1:A:741:GLY:HA3	1:A:770:TRP:HZ2	1.78	0.48
1:A:879:ARG:CB	1:A:921:MET:SD	3.01	0.48
1:C:171:HIS:NE2	1:C:175:GLU:CB	2.76	0.48
1:C:319:GLY:O	1:C:321:PRO:HD3	2.14	0.48
1:C:579:GLN:NE2	1:C:583:GLN:HB2	2.28	0.48
1:C:1174:ALA:C	1:C:1175:THR:CG2	2.86	0.48
1:E:579:GLN:NE2	1:E:583:GLN:HB2	2.28	0.48
1:E:718:THR:OG1	1:E:726:LYS:HB2	2.14	0.48
1:E:879:ARG:CB	1:E:921:MET:CE	2.73	0.48
1:E:1183:LEU:N	1:E:1183:LEU:CD1	2.73	0.48
1:E:1208:GLU:HG3	1:E:1211:GLN:CG	2.44	0.48
1:G:333:ASP:N	1:G:333:ASP:OD1	2.44	0.48
1:G:862:TYR:CZ	1:G:881:HIS:CA	2.97	0.48
1:G:920:VAL:HG12	1:G:921:MET:N	2.25	0.48
1:G:923:LYS:CG	1:G:940:VAL:HG23	2.42	0.48
1:G:1208:GLU:OE1	1:G:1208:GLU:N	2.47	0.48
1:I:226:ARG:O	1:I:230:LEU:HG	2.14	0.48
1:I:342:LEU:O	1:I:346:GLN:HG2	2.13	0.48
1:I:461:ILE:HD11	1:I:491:MET:CG	2.44	0.48
1:K:137:GLN:NE2	1:K:173:LEU:HB3	2.23	0.48
1:K:237:ARG:NH1	1:K:237:ARG:HG2	2.29	0.48
1:K:333:ASP:OD1	1:K:333:ASP:N	2.44	0.48
1:K:394:LYS:CB	1:K:434:ARG:CB	2.80	0.48
1:M:140:LEU:C	1:M:140:LEU:CD1	2.86	0.48
1:M:319:GLY:O	1:M:321:PRO:HD3	2.14	0.48
1:A:317:CYS:SG	1:A:323:VAL:CG1	2.98	0.48
1:A:420:ASN:C	1:A:422:SER:H	2.20	0.48
1:A:610:VAL:HG22	1:A:907:ARG:CG	2.43	0.48
1:A:1136:SER:HB2	1:A:1139:SER:HB3	1.94	0.48
1:A:1208:GLU:N	1:A:1208:GLU:OE1	2.47	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:403:LEU:HD11	1:C:459:LYS:HZ2	1.79	0.48
1:C:434:ARG:HG3	1:C:434:ARG:NH2	2.28	0.48
1:C:505:PHE:CZ	1:C:540:VAL:CG1	2.90	0.48
1:C:883:SER:HB2	1:C:902:ASP:CB	2.39	0.48
1:C:1220:LEU:HD23	1:C:1234:THR:CG2	2.43	0.48
1:E:140:LEU:O	1:E:143:LEU:HD22	2.13	0.48
1:E:226:ARG:O	1:E:230:LEU:HG	2.14	0.48
1:E:319:GLY:O	1:E:321:PRO:HD3	2.14	0.48
1:E:855:ALA:HB2	1:E:869:THR:HG23	1.96	0.48
1:E:862:TYR:CE2	1:E:881:HIS:CB	2.92	0.48
1:E:1208:GLU:OE1	1:E:1208:GLU:N	2.47	0.48
1:E:1220:LEU:HD23	1:E:1234:THR:CG2	2.43	0.48
1:G:662:CYS:SG	1:G:704:CYS:HA	2.54	0.48
1:G:1220:LEU:HD23	1:G:1234:THR:CG2	2.43	0.48
1:G:1220:LEU:HD11	1:G:1236:ASP:OD2	2.12	0.48
1:I:374:MET:CE	1:I:374:MET:CA	2.85	0.48
1:I:507:LEU:HA	1:I:510:ILE:HD12	1.96	0.48
1:I:595:LEU:HD13	1:I:1244:LEU:HD13	1.93	0.48
1:I:597:TRP:CH2	1:I:603:ILE:HG12	2.43	0.48
1:I:999:ARG:CD	1:I:1030:TRP:CE2	2.96	0.48
1:I:1152:ARG:NE	1:I:1164:LEU:HD23	2.29	0.48
1:I:1225:VAL:HG12	1:I:1229:PHE:HA	1.94	0.48
1:K:895:SER:C	1:K:911:THR:OG1	2.57	0.48
1:M:591:GLY:O	1:M:592:MET:CB	2.56	0.48
1:M:741:GLY:HA3	1:M:770:TRP:HZ2	1.78	0.48
1:M:1208:GLU:HG3	1:M:1211:GLN:CG	2.44	0.48
1:A:237:ARG:NH1	1:A:237:ARG:HG2	2.29	0.48
1:A:252:LYS:CE	1:A:252:LYS:CA	2.92	0.48
2:B:14:CYS:CB	5:B:201:HEM:HAB	2.43	0.48
1:C:662:CYS:SG	1:C:704:CYS:HA	2.54	0.48
1:C:999:ARG:CD	1:C:1030:TRP:CE2	2.96	0.48
1:E:128:THR:HG22	1:E:166:GLU:OE1	2.14	0.48
1:E:591:GLY:O	1:E:592:MET:CB	2.56	0.48
1:E:1167:PRO:CB	1:E:1202:TRP:CE2	2.93	0.48
1:G:226:ARG:O	1:G:230:LEU:HG	2.14	0.48
1:G:298:PHE:CZ	1:G:325:SER:HA	2.42	0.48
1:G:1181:THR:CG2	1:G:1221:LYS:HA	2.40	0.48
1:G:1183:LEU:N	1:G:1183:LEU:CD1	2.73	0.48
1:G:1213:PHE:HE2	1:G:1215:THR:CA	2.26	0.48
1:I:252:LYS:CE	1:I:252:LYS:CA	2.92	0.48
1:I:374:MET:SD	1:I:374:MET:N	2.87	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:1176:HIS:O	1:I:1197:GLY:CA	2.59	0.48
1:I:1233:VAL:CB	1:I:1243:ILE:HA	2.43	0.48
1:K:226:ARG:O	1:K:230:LEU:HG	2.14	0.48
1:M:610:VAL:HG22	1:M:907:ARG:CG	2.43	0.48
1:M:853:HIS:O	1:M:869:THR:N	2.38	0.48
1:M:1152:ARG:NE	1:M:1164:LEU:HD23	2.28	0.48
1:C:128:THR:HG22	1:C:166:GLU:OE1	2.14	0.47
1:C:226:ARG:O	1:C:230:LEU:HG	2.14	0.47
1:C:548:LEU:O	1:C:551:ASN:N	2.45	0.47
1:C:855:ALA:HB2	1:C:869:THR:HG23	1.96	0.47
1:E:610:VAL:HG22	1:E:907:ARG:CG	2.43	0.47
1:E:1006:VAL:HA	1:E:1022:SER:HB2	1.94	0.47
1:G:237:ARG:NH1	1:G:237:ARG:HG2	2.29	0.47
1:G:319:GLY:O	1:G:321:PRO:HD3	2.14	0.47
1:G:862:TYR:HD1	1:G:885:VAL:CB	2.22	0.47
1:G:1173:ALA:O	1:G:1174:ALA:C	2.57	0.47
1:I:741:GLY:HA3	1:I:770:TRP:HZ2	1.78	0.47
1:I:1176:HIS:HB2	1:I:1218:THR:CB	2.38	0.47
1:K:595:LEU:CD2	1:K:1244:LEU:CD1	2.48	0.47
1:K:662:CYS:SG	1:K:704:CYS:HA	2.54	0.47
1:K:1220:LEU:HD23	1:K:1234:THR:CG2	2.43	0.47
1:M:252:LYS:CE	1:M:252:LYS:CA	2.92	0.47
1:M:543:ASN:CB	1:M:576:VAL:CG2	2.92	0.47
1:M:1176:HIS:O	1:M:1197:GLY:CA	2.59	0.47
1:M:1208:GLU:OE1	1:M:1208:GLU:N	2.47	0.47
1:M:1213:PHE:HE2	1:M:1215:THR:CA	2.26	0.47
1:A:301:MET:O	1:A:302:LYS:C	2.58	0.47
1:A:342:LEU:O	1:A:346:GLN:HG2	2.13	0.47
1:A:434:ARG:HG3	1:A:434:ARG:NH2	2.28	0.47
1:A:570:GLU:OE2	1:A:571:PRO:HD2	2.14	0.47
1:A:579:GLN:NE2	1:A:583:GLN:HB2	2.28	0.47
1:A:591:GLY:O	1:A:592:MET:CB	2.56	0.47
1:A:662:CYS:SG	1:A:704:CYS:HA	2.54	0.47
1:A:923:LYS:CB	1:A:940:VAL:HG21	2.41	0.47
1:A:1213:PHE:HE2	1:A:1215:THR:CA	2.26	0.47
1:C:342:LEU:O	1:C:346:GLN:HG2	2.13	0.47
1:C:494:ALA:O	1:C:495:LYS:CB	2.62	0.47
1:C:610:VAL:HG22	1:C:907:ARG:CG	2.43	0.47
1:C:1094:SER:HA	1:C:1135:PHE:CB	2.44	0.47
1:C:1173:ALA:O	1:C:1174:ALA:C	2.57	0.47
1:C:1175:THR:HG1	1:C:1176:HIS:CE1	2.31	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1208:GLU:OE1	1:C:1208:GLU:N	2.47	0.47
1:E:145:GLY:O	1:E:146:GLU:HB2	2.14	0.47
1:E:999:ARG:CD	1:E:1030:TRP:CE2	2.96	0.47
1:E:1094:SER:HA	1:E:1135:PHE:CB	2.44	0.47
1:G:570:GLU:OE2	1:G:571:PRO:HD2	2.14	0.47
1:G:999:ARG:CD	1:G:1030:TRP:CE2	2.96	0.47
1:G:1176:HIS:O	1:G:1197:GLY:CA	2.59	0.47
1:G:1208:GLU:HG3	1:G:1211:GLN:CG	2.44	0.47
1:I:895:SER:C	1:I:911:THR:OG1	2.57	0.47
1:I:1173:ALA:O	1:I:1174:ALA:C	2.57	0.47
1:K:330:LEU:HD12	1:K:330:LEU:HA	1.74	0.47
1:K:374:MET:CE	1:K:374:MET:CA	2.86	0.47
1:K:494:ALA:HB1	1:K:496:MET:HG2	1.95	0.47
1:K:700:GLU:HB3	1:K:721:SER:HB2	1.96	0.47
1:K:1136:SER:HA	1:K:1185:PHE:HD2	1.78	0.47
1:K:1236:ASP:OD1	1:K:1236:ASP:N	2.43	0.47
1:M:226:ARG:O	1:M:230:LEU:HG	2.14	0.47
1:M:845:TYR:OH	1:M:888:VAL:O	2.25	0.47
1:M:1187:PRO:HG2	1:M:1229:PHE:CB	2.42	0.47
1:A:543:ASN:CB	1:A:576:VAL:CG2	2.92	0.47
1:C:507:LEU:HA	1:C:510:ILE:HD12	1.96	0.47
1:C:879:ARG:CB	1:C:921:MET:CE	2.73	0.47
1:C:895:SER:C	1:C:911:THR:OG1	2.57	0.47
1:E:237:ARG:NH1	1:E:237:ARG:HG2	2.29	0.47
1:E:334:PHE:CB	1:E:337:ARG:CD	2.87	0.47
1:E:374:MET:N	1:E:374:MET:SD	2.87	0.47
1:E:662:CYS:SG	1:E:704:CYS:HA	2.54	0.47
1:E:1217:GLY:C	1:E:1218:THR:CG2	2.76	0.47
1:G:453:LEU:CD1	1:G:454:GLN:N	2.73	0.47
1:G:603:ILE:HD12	1:G:604:THR:HG1	1.79	0.47
1:G:762:SER:OG	1:G:764:ASP:OD1	2.25	0.47
1:G:855:ALA:HB2	1:G:869:THR:HG23	1.96	0.47
1:G:920:VAL:C	1:G:921:MET:CG	2.85	0.47
1:G:1135:PHE:CD1	1:G:1142:LEU:HD13	2.50	0.47
1:I:283:GLU:OE1	1:I:284:SER:O	2.31	0.47
1:I:319:GLY:O	1:I:321:PRO:HD3	2.14	0.47
1:I:333:ASP:N	1:I:333:ASP:OD1	2.44	0.47
1:I:568:LEU:H	1:I:568:LEU:HG	1.50	0.47
1:I:639:LEU:CG	1:I:653:ILE:HG21	2.36	0.47
1:I:855:ALA:HB2	1:I:869:THR:HG23	1.96	0.47
1:I:1135:PHE:CD1	1:I:1142:LEU:HD13	2.50	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:1176:HIS:HB3	1:I:1218:THR:CG2	2.40	0.47
1:I:1208:GLU:N	1:I:1208:GLU:OE1	2.47	0.47
1:K:1135:PHE:CD1	1:K:1142:LEU:HD13	2.50	0.47
1:M:1094:SER:HA	1:M:1135:PHE:CB	2.44	0.47
1:A:140:LEU:C	1:A:140:LEU:CD1	2.86	0.47
1:A:895:SER:C	1:A:911:THR:OG1	2.57	0.47
1:C:237:ARG:NH1	1:C:237:ARG:HG2	2.29	0.47
1:C:260:ILE:O	1:C:260:ILE:HG13	2.05	0.47
1:C:700:GLU:HB3	1:C:721:SER:HB2	1.96	0.47
1:C:1136:SER:HA	1:C:1185:PHE:HD2	1.78	0.47
1:C:1152:ARG:NE	1:C:1164:LEU:HD23	2.28	0.47
1:E:359:TYR:HE1	1:E:361:TYR:CD1	2.32	0.47
1:E:384:THR:HB	1:E:449:ASN:OD1	2.15	0.47
1:E:657:GLU:HB2	1:E:680:LYS:HD2	1.96	0.47
1:E:700:GLU:HB3	1:E:721:SER:HB2	1.96	0.47
1:E:1135:PHE:CD1	1:E:1142:LEU:HD13	2.50	0.47
1:E:1181:THR:HG21	1:E:1221:LYS:CA	2.39	0.47
1:G:330:LEU:HD22	1:G:353:ILE:HG22	1.97	0.47
1:G:845:TYR:OH	1:G:888:VAL:O	2.25	0.47
1:G:1174:ALA:C	1:G:1175:THR:CG2	2.86	0.47
1:I:379:ILE:CD1	1:I:417:GLU:OE1	2.63	0.47
1:I:700:GLU:HB3	1:I:721:SER:HB2	1.96	0.47
1:K:171:HIS:NE2	1:K:175:GLU:CB	2.76	0.47
1:K:543:ASN:CB	1:K:576:VAL:CG2	2.92	0.47
1:K:561:PRO:CB	1:K:1214:TYR:CD2	2.87	0.47
1:K:718:THR:OG1	1:K:726:LYS:HB2	2.14	0.47
1:K:1087:THR:CG2	2:L:39:LYS:CD	2.75	0.47
1:M:196:LEU:HD11	1:M:200:GLN:HE21	1.78	0.47
1:M:639:LEU:CG	1:M:653:ILE:HD12	2.43	0.47
1:M:718:THR:OG1	1:M:726:LYS:HB2	2.14	0.47
1:M:742:HIS:CE1	1:M:768:LYS:HD2	2.50	0.47
1:M:1087:THR:CG2	2:N:39:LYS:CD	2.75	0.47
1:A:1220:LEU:HD23	1:A:1234:THR:CG2	2.43	0.47
1:C:231:MET:HE1	1:C:240:LEU:HD11	1.96	0.47
1:C:568:LEU:H	1:C:568:LEU:HG	1.51	0.47
1:E:301:MET:O	1:E:302:LYS:C	2.57	0.47
1:E:494:ALA:O	1:E:495:LYS:CB	2.62	0.47
1:E:531:HIS:ND1	1:E:531:HIS:N	2.61	0.47
1:G:128:THR:HG22	1:G:166:GLU:OE1	2.14	0.47
1:G:208:GLN:H	1:G:208:GLN:HG3	1.48	0.47
1:G:494:ALA:HB1	1:G:496:MET:HG2	1.95	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1022:SER:OG	1:G:1023:ASP:N	2.48	0.47
1:K:327:ILE:CD1	1:K:353:ILE:HG21	2.43	0.47
1:K:379:ILE:CD1	1:K:417:GLU:OE1	2.63	0.47
1:K:553:HIS:CB	1:K:610:VAL:CG1	2.89	0.47
1:K:570:GLU:OE2	1:K:571:PRO:HD2	2.14	0.47
1:M:246:TRP:CD1	1:M:246:TRP:N	2.81	0.47
1:M:844:GLN:HB3	1:M:884:TRP:HZ2	1.80	0.47
1:M:1057:ARG:HA	1:M:1071:ASN:HA	1.96	0.47
1:M:1136:SER:HA	1:M:1185:PHE:HD2	1.78	0.47
1:A:457:HIS:NE2	1:A:493:SER:CB	2.72	0.47
1:A:718:THR:OG1	1:A:726:LYS:HB2	2.14	0.47
1:A:1233:VAL:CG1	1:A:1243:ILE:HG23	2.45	0.47
1:C:140:LEU:C	1:C:140:LEU:CD1	2.86	0.47
1:C:379:ILE:CD1	1:C:417:GLU:OE1	2.63	0.47
1:C:384:THR:HB	1:C:449:ASN:OD1	2.15	0.47
1:C:923:LYS:CB	1:C:940:VAL:HG21	2.41	0.47
1:C:1135:PHE:CD1	1:C:1142:LEU:HD13	2.50	0.47
1:C:1232:TYR:OH	1:C:1234:THR:CB	2.59	0.47
1:E:231:MET:HE1	1:E:240:LEU:HD11	1.96	0.47
1:E:496:MET:HE3	1:E:496:MET:CA	2.31	0.47
1:E:578:GLN:NE2	1:E:578:GLN:C	2.73	0.47
1:E:862:TYR:CZ	1:E:881:HIS:CA	2.97	0.47
1:G:148:GLY:C	1:G:149:TRP:HD1	2.23	0.47
1:G:301:MET:O	1:G:302:LYS:C	2.57	0.47
1:G:862:TYR:CE2	1:G:881:HIS:CB	2.92	0.47
1:I:330:LEU:HD22	1:I:353:ILE:HG22	1.97	0.47
1:K:128:THR:HG22	1:K:166:GLU:OE1	2.14	0.47
1:K:148:GLY:C	1:K:149:TRP:HD1	2.23	0.47
1:K:667:THR:OG1	1:K:708:THR:O	2.29	0.47
1:K:923:LYS:CG	1:K:940:VAL:HG23	2.42	0.47
1:K:1057:ARG:HA	1:K:1071:ASN:HA	1.96	0.47
1:M:145:GLY:O	1:M:146:GLU:HB2	2.14	0.47
1:M:301:MET:O	1:M:302:LYS:C	2.58	0.47
1:M:379:ILE:CD1	1:M:417:GLU:OE1	2.63	0.47
1:M:496:MET:HA	1:M:496:MET:CE	2.30	0.47
1:M:1168:LEU:HD11	1:M:1171:GLU:HG2	1.94	0.47
1:M:1247:LEU:CD1	1:M:1248:GLU:N	2.73	0.47
1:A:128:THR:HG22	1:A:166:GLU:OE1	2.14	0.47
1:A:148:GLY:C	1:A:149:TRP:HD1	2.23	0.47
1:A:259:GLN:H	1:A:259:GLN:HG2	1.56	0.47
1:A:379:ILE:CD1	1:A:417:GLU:OE1	2.63	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:457:HIS:NE2	1:A:493:SER:OG	2.48	0.47
1:A:461:ILE:HD11	1:A:491:MET:HG3	1.97	0.47
1:A:595:LEU:HG	1:A:1201:TRP:HH2	1.71	0.47
1:C:148:GLY:C	1:C:149:TRP:HD1	2.23	0.47
1:C:330:LEU:HD12	1:C:330:LEU:HA	1.74	0.47
1:C:457:HIS:NE2	1:C:493:SER:OG	2.48	0.47
1:C:591:GLY:O	1:C:592:MET:CB	2.56	0.47
1:C:657:GLU:HB2	1:C:680:LYS:HD2	1.96	0.47
1:C:741:GLY:HA3	1:C:770:TRP:HZ2	1.78	0.47
1:C:853:HIS:O	1:C:869:THR:N	2.39	0.47
1:C:861:GLN:N	1:C:884:TRP:CD1	2.83	0.47
1:C:1151:ILE:N	1:C:1167:PRO:HD2	2.24	0.47
1:E:148:GLY:C	1:E:149:TRP:HD1	2.23	0.47
1:E:248:SER:O	1:E:249:TRP:C	2.57	0.47
1:E:330:LEU:HD22	1:E:353:ILE:HG22	1.97	0.47
1:E:453:LEU:CD1	1:E:453:LEU:C	2.88	0.47
1:E:895:SER:C	1:E:911:THR:OG1	2.57	0.47
1:E:1151:ILE:N	1:E:1167:PRO:HD2	2.24	0.47
1:G:146:GLU:C	1:G:147:PRO:O	2.58	0.47
1:G:374:MET:N	1:G:374:MET:SD	2.87	0.47
1:G:461:ILE:HD11	1:G:491:MET:CG	2.44	0.47
1:G:507:LEU:HA	1:G:510:ILE:HD12	1.96	0.47
1:G:657:GLU:HB2	1:G:680:LYS:HD2	1.96	0.47
1:G:741:GLY:HA3	1:G:770:TRP:HZ2	1.78	0.47
1:G:753:PRO:HG3	1:G:810:GLY:HA3	1.97	0.47
1:I:570:GLU:OE2	1:I:571:PRO:HD2	2.14	0.47
1:I:592:MET:HE2	1:I:592:MET:H	1.75	0.47
1:I:639:LEU:CG	1:I:653:ILE:HD12	2.43	0.47
1:I:645:GLU:C	1:I:647:GLY:N	2.73	0.47
1:I:662:CYS:SG	1:I:704:CYS:HA	2.54	0.47
1:I:718:THR:OG1	1:I:726:LYS:HB2	2.14	0.47
1:I:753:PRO:HG3	1:I:810:GLY:HA3	1.97	0.47
1:I:1094:SER:HA	1:I:1135:PHE:CB	2.44	0.47
1:I:1101:SER:HB3	1:I:1112:TRP:NE1	2.30	0.47
1:I:1166:ALA:N	1:I:1167:PRO:CD	2.78	0.47
1:K:461:ILE:HD11	1:K:491:MET:CG	2.44	0.47
1:K:473:LEU:HD22	1:K:484:TYR:CE1	2.43	0.47
1:K:543:ASN:CG	1:K:574:SER:HB2	2.38	0.47
1:K:903:ASP:OD1	1:K:1175:THR:HB	2.15	0.47
1:K:1208:GLU:OE1	1:K:1208:GLU:N	2.47	0.47
1:M:237:ARG:NH1	1:M:237:ARG:HG2	2.29	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:241:ILE:C	1:M:242:LEU:CD1	2.81	0.47
1:M:446:THR:O	1:M:450:CYS:HB3	2.15	0.47
1:M:662:CYS:SG	1:M:704:CYS:HA	2.54	0.47
1:M:681:VAL:HG11	1:M:716:LEU:HD21	1.97	0.47
1:M:700:GLU:HB3	1:M:721:SER:HB2	1.96	0.47
1:M:895:SER:C	1:M:911:THR:OG1	2.57	0.47
1:M:1173:ALA:O	1:M:1174:ALA:C	2.57	0.47
2:N:17:CYS:HG	5:N:201:HEM:CBC	2.25	0.47
1:A:226:ARG:O	1:A:230:LEU:HG	2.14	0.47
1:A:1208:GLU:HG3	1:A:1211:GLN:CG	2.44	0.47
1:A:1220:LEU:HD21	1:A:1234:THR:HG21	1.97	0.47
1:C:147:PRO:HG3	1:E:121:GLN:HE22	1.79	0.47
1:C:330:LEU:HD22	1:C:353:ILE:HG22	1.97	0.47
1:C:461:ILE:HD11	1:C:491:MET:HG3	1.97	0.47
1:C:645:GLU:C	1:C:647:GLY:N	2.73	0.47
1:E:200:GLN:O	1:E:203:CYS:HB3	2.15	0.47
1:E:507:LEU:HA	1:E:510:ILE:HD12	1.96	0.47
1:G:145:GLY:O	1:G:146:GLU:HB2	2.14	0.47
1:G:384:THR:HB	1:G:449:ASN:OD1	2.15	0.47
1:G:844:GLN:HB3	1:G:884:TRP:HZ2	1.80	0.47
1:G:895:SER:C	1:G:911:THR:OG1	2.57	0.47
1:G:1094:SER:HA	1:G:1135:PHE:CB	2.44	0.47
1:G:1136:SER:HA	1:G:1185:PHE:HD2	1.78	0.47
1:I:334:PHE:CB	1:I:337:ARG:HG2	2.45	0.47
1:I:903:ASP:OD1	1:I:1175:THR:HB	2.15	0.47
1:K:610:VAL:HG22	1:K:907:ARG:CG	2.43	0.47
1:M:334:PHE:CB	1:M:337:ARG:HG2	2.45	0.47
1:M:1135:PHE:CD1	1:M:1142:LEU:HD13	2.50	0.47
1:A:246:TRP:CD1	1:A:246:TRP:N	2.81	0.47
1:A:374:MET:CE	1:A:374:MET:CA	2.85	0.47
1:A:384:THR:HB	1:A:449:ASN:OD1	2.15	0.47
1:A:394:LYS:CB	1:A:434:ARG:CB	2.80	0.47
1:A:629:ARG:HB2	1:A:642:PHE:O	2.15	0.47
1:A:727:LEU:HD13	1:A:758:LEU:HD22	1.97	0.47
1:A:920:VAL:HG12	1:A:921:MET:N	2.25	0.47
1:A:1101:SER:HB3	1:A:1112:TRP:NE1	2.30	0.47
1:A:1176:HIS:HB3	1:A:1218:THR:CG2	2.40	0.47
1:C:301:MET:O	1:C:302:LYS:C	2.58	0.47
1:C:553:HIS:CB	1:C:610:VAL:CG1	2.89	0.47
1:C:578:GLN:NE2	1:C:578:GLN:C	2.73	0.47
1:C:862:TYR:CZ	1:C:881:HIS:CA	2.96	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:445:LEU:O	1:E:449:ASN:N	2.48	0.47
1:E:457:HIS:CB	1:E:493:SER:HB2	2.44	0.47
1:E:543:ASN:CB	1:E:576:VAL:CG2	2.92	0.47
1:E:741:GLY:HA3	1:E:770:TRP:HZ2	1.78	0.47
1:E:753:PRO:HG3	1:E:810:GLY:HA3	1.97	0.47
1:E:1136:SER:HA	1:E:1185:PHE:HD2	1.78	0.47
1:E:1200:LYS:CE	1:E:1211:GLN:HB3	2.45	0.47
1:G:179:PRO:CG	1:G:237:ARG:HH11	2.17	0.47
1:G:252:LYS:CE	1:G:252:LYS:CA	2.92	0.47
1:G:374:MET:CE	1:G:374:MET:CA	2.85	0.47
1:G:379:ILE:CD1	1:G:417:GLU:OE1	2.63	0.47
1:G:446:THR:O	1:G:450:CYS:HB3	2.15	0.47
1:G:529:TYR:HE1	1:G:533:LEU:HD13	1.80	0.47
1:G:639:LEU:CG	1:G:653:ILE:HD12	2.43	0.47
1:G:1185:PHE:CD1	1:G:1192:LEU:CG	2.63	0.47
1:I:128:THR:HG22	1:I:166:GLU:OE1	2.14	0.47
1:I:145:GLY:O	1:I:146:GLU:HB2	2.14	0.47
1:I:742:HIS:CE1	1:I:768:LYS:HD2	2.50	0.47
1:I:861:GLN:N	1:I:884:TRP:CD1	2.83	0.47
1:I:1057:ARG:HA	1:I:1071:ASN:HA	1.96	0.47
1:I:1232:TYR:OH	1:I:1234:THR:CB	2.59	0.47
1:K:496:MET:HE3	1:K:496:MET:CA	2.31	0.47
1:K:645:GLU:C	1:K:647:GLY:N	2.73	0.47
1:K:681:VAL:HG11	1:K:716:LEU:HD21	1.97	0.47
1:K:742:HIS:CE1	1:K:768:LYS:HD2	2.50	0.47
1:K:753:PRO:HG3	1:K:810:GLY:HA3	1.97	0.47
1:K:1204:VAL:HG12	1:K:1205:VAL:HG23	1.97	0.47
1:K:1208:GLU:HG3	1:K:1211:GLN:CG	2.44	0.47
1:M:200:GLN:O	1:M:203:CYS:HB3	2.15	0.47
1:M:645:GLU:C	1:M:647:GLY:H	2.23	0.47
1:M:903:ASP:OD1	1:M:1175:THR:HB	2.15	0.47
1:M:1204:VAL:HG12	1:M:1205:VAL:HG23	1.97	0.47
1:M:1220:LEU:HD21	1:M:1234:THR:HG21	1.97	0.47
1:A:146:GLU:C	1:A:147:PRO:O	2.58	0.47
1:A:446:THR:O	1:A:450:CYS:HB3	2.15	0.47
1:A:505:PHE:CE2	1:A:575:GLU:OE1	2.55	0.47
1:A:681:VAL:HG11	1:A:716:LEU:HD21	1.97	0.47
1:A:700:GLU:HB3	1:A:721:SER:HB2	1.96	0.47
1:A:1057:ARG:HA	1:A:1071:ASN:HA	1.96	0.47
1:C:457:HIS:CB	1:C:493:SER:HB2	2.44	0.47
1:E:146:GLU:C	1:E:147:PRO:O	2.58	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1204:VAL:HG12	1:E:1205:VAL:HG23	1.97	0.47
1:G:306:LEU:HA	1:G:307:PRO:HD3	1.76	0.47
1:G:645:GLU:C	1:G:647:GLY:H	2.23	0.47
1:G:671:PHE:HE1	1:G:692:VAL:HG11	1.80	0.47
1:G:727:LEU:HD13	1:G:758:LEU:HD22	1.97	0.47
1:G:924:GLN:HB3	1:G:1238:LEU:CD1	2.45	0.47
1:G:1220:LEU:HD21	1:G:1234:THR:HG21	1.97	0.47
1:I:146:GLU:C	1:I:147:PRO:O	2.58	0.47
1:I:543:ASN:CB	1:I:576:VAL:CG2	2.92	0.47
1:I:844:GLN:HB3	1:I:884:TRP:HZ2	1.80	0.47
1:I:1233:VAL:CG1	1:I:1243:ILE:HG23	2.45	0.47
1:K:145:GLY:O	1:K:146:GLU:HB2	2.14	0.47
1:M:148:GLY:C	1:M:149:TRP:HD1	2.23	0.47
1:M:359:TYR:HE1	1:M:361:TYR:CD1	2.32	0.47
1:M:529:TYR:HE1	1:M:533:LEU:HD13	1.80	0.47
1:M:570:GLU:OE2	1:M:571:PRO:HD2	2.14	0.47
1:A:461:ILE:HD11	1:A:491:MET:CG	2.44	0.46
1:A:573:THR:HA	1:A:577:TYR:CD2	2.47	0.46
1:A:578:GLN:NE2	1:A:578:GLN:C	2.73	0.46
1:A:645:GLU:C	1:A:647:GLY:N	2.73	0.46
1:A:1094:SER:HA	1:A:1135:PHE:CB	2.44	0.46
1:A:1187:PRO:HG2	1:A:1229:PHE:CB	2.42	0.46
1:C:200:GLN:O	1:C:203:CYS:HB3	2.15	0.46
1:C:543:ASN:CB	1:C:576:VAL:CG2	2.93	0.46
1:C:1101:SER:HB3	1:C:1112:TRP:NE1	2.30	0.46
1:C:1217:GLY:C	1:C:1218:THR:CG2	2.76	0.46
1:C:1233:VAL:CG1	1:C:1243:ILE:HG23	2.45	0.46
1:E:334:PHE:CB	1:E:337:ARG:HG2	2.45	0.46
1:E:568:LEU:H	1:E:568:LEU:HG	1.51	0.46
1:E:629:ARG:HB2	1:E:642:PHE:O	2.15	0.46
1:G:200:GLN:O	1:G:203:CYS:HB3	2.15	0.46
1:G:448:LYS:O	1:G:448:LYS:HG2	2.16	0.46
1:G:543:ASN:CB	1:G:576:VAL:CG2	2.93	0.46
1:G:582:LEU:C	1:G:582:LEU:CD2	2.88	0.46
1:G:1174:ALA:O	1:G:1175:THR:CG2	2.63	0.46
1:G:1200:LYS:CE	1:G:1211:GLN:HB3	2.45	0.46
1:G:1228:ASP:CB	1:G:1230:LYS:HG2	2.37	0.46
1:I:200:GLN:O	1:I:203:CYS:HB3	2.15	0.46
1:I:301:MET:O	1:I:302:LYS:C	2.58	0.46
1:I:553:HIS:CB	1:I:610:VAL:CG1	2.89	0.46
1:I:629:ARG:HB2	1:I:642:PHE:O	2.15	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:924:GLN:HB3	1:I:1238:LEU:CD1	2.45	0.46
1:K:844:GLN:HB3	1:K:884:TRP:HZ2	1.80	0.46
1:M:374:MET:CE	1:M:374:MET:CA	2.86	0.46
1:M:548:LEU:O	1:M:551:ASN:N	2.45	0.46
1:M:1233:VAL:CG1	1:M:1243:ILE:HG23	2.45	0.46
1:A:130:LYS:HB2	1:A:130:LYS:HE2	1.74	0.46
1:A:742:HIS:CE1	1:A:768:LYS:HD2	2.50	0.46
1:A:855:ALA:HB2	1:A:869:THR:HG23	1.96	0.46
1:A:861:GLN:N	1:A:884:TRP:CD1	2.83	0.46
1:A:861:GLN:N	1:A:884:TRP:HD1	2.14	0.46
1:C:727:LEU:HD13	1:C:758:LEU:HD22	1.97	0.46
1:C:861:GLN:N	1:C:884:TRP:HD1	2.14	0.46
1:C:875:VAL:CG1	1:C:915:CYS:SG	2.94	0.46
1:C:1166:ALA:N	1:C:1167:PRO:CD	2.78	0.46
1:C:1182:ASP:CB	1:C:1223:ILE:HG23	2.45	0.46
1:E:138:GLN:O	1:E:141:SER:HB3	2.16	0.46
1:E:457:HIS:NE2	1:E:493:SER:OG	2.48	0.46
1:E:861:GLN:N	1:E:884:TRP:CD1	2.83	0.46
1:E:1174:ALA:O	1:E:1175:THR:CG2	2.63	0.46
1:E:1182:ASP:CB	1:E:1223:ILE:HG23	2.45	0.46
1:G:700:GLU:HB3	1:G:721:SER:HB2	1.96	0.46
1:G:742:HIS:CE1	1:G:768:LYS:HD2	2.50	0.46
1:G:861:GLN:N	1:G:884:TRP:CD1	2.83	0.46
1:G:1101:SER:HB3	1:G:1112:TRP:NE1	2.30	0.46
1:G:1181:THR:HG21	1:G:1221:LYS:CA	2.39	0.46
1:I:137:GLN:HG2	1:I:173:LEU:CD1	2.45	0.46
1:I:446:THR:O	1:I:450:CYS:HB3	2.15	0.46
1:K:629:ARG:HB2	1:K:642:PHE:O	2.15	0.46
1:K:657:GLU:HB2	1:K:680:LYS:HD2	1.96	0.46
1:K:855:ALA:HB2	1:K:869:THR:HG23	1.96	0.46
1:M:138:GLN:O	1:M:141:SER:HB3	2.16	0.46
1:M:403:LEU:HD11	1:M:459:LYS:HZ2	1.80	0.46
1:M:457:HIS:NE2	1:M:493:SER:OG	2.48	0.46
1:M:461:ILE:HD11	1:M:491:MET:HG3	1.97	0.46
1:M:671:PHE:HE1	1:M:692:VAL:HG11	1.81	0.46
1:M:727:LEU:HD13	1:M:758:LEU:HD22	1.98	0.46
1:M:855:ALA:HB2	1:M:869:THR:HG23	1.96	0.46
1:M:1065:GLY:HA2	1:M:1088:VAL:HG23	1.97	0.46
1:M:1101:SER:HB3	1:M:1112:TRP:NE1	2.30	0.46
1:M:1182:ASP:CB	1:M:1223:ILE:HG23	2.45	0.46
1:A:248:SER:O	1:A:249:TRP:C	2.57	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:398:LYS:O	1:A:401:CYS:HB2	2.16	0.46
1:A:657:GLU:HB2	1:A:680:LYS:HD2	1.96	0.46
1:C:132:LEU:HA	1:C:132:LEU:HD23	1.76	0.46
1:C:514:THR:HG23	1:C:514:THR:O	2.15	0.46
1:C:629:ARG:HB2	1:C:642:PHE:O	2.15	0.46
1:C:718:THR:OG1	1:C:726:LYS:HB2	2.14	0.46
1:C:844:GLN:HB3	1:C:884:TRP:HZ2	1.80	0.46
1:C:1181:THR:HG21	1:C:1221:LYS:CA	2.39	0.46
1:E:146:GLU:HG2	1:G:111:ARG:NH1	2.19	0.46
1:E:390:GLN:NE2	1:E:489:TYR:HE2	2.14	0.46
1:E:582:LEU:C	1:E:582:LEU:CD2	2.88	0.46
1:E:592:MET:HE2	1:E:592:MET:CA	2.46	0.46
1:E:727:LEU:HD13	1:E:758:LEU:HD22	1.97	0.46
1:E:742:HIS:CE1	1:E:768:LYS:HD2	2.50	0.46
1:E:864:VAL:HG22	1:E:885:VAL:HG11	1.95	0.46
1:E:924:GLN:HB3	1:E:1238:LEU:CD1	2.45	0.46
1:G:398:LYS:O	1:G:401:CYS:HB2	2.16	0.46
1:G:592:MET:HE2	1:G:592:MET:CA	2.46	0.46
1:G:718:THR:OG1	1:G:726:LYS:HB2	2.14	0.46
1:I:209:ASP:O	1:I:210:GLU:CB	2.63	0.46
1:I:231:MET:HE1	1:I:240:LEU:HD11	1.96	0.46
1:I:448:LYS:HG2	1:I:448:LYS:O	2.15	0.46
1:I:727:LEU:HD13	1:I:758:LEU:HD22	1.97	0.46
1:I:1174:ALA:O	1:I:1175:THR:CG2	2.63	0.46
1:K:137:GLN:HG2	1:K:173:LEU:CD1	2.45	0.46
1:K:146:GLU:C	1:K:147:PRO:O	2.58	0.46
1:K:244:ASP:O	1:K:245:VAL:HG23	2.16	0.46
1:K:1065:GLY:HA2	1:K:1088:VAL:HG23	1.97	0.46
1:K:1175:THR:HG1	1:K:1176:HIS:CE1	2.33	0.46
1:M:128:THR:HG22	1:M:166:GLU:OE1	2.14	0.46
1:M:248:SER:O	1:M:249:TRP:C	2.57	0.46
1:M:578:GLN:NE2	1:M:578:GLN:C	2.73	0.46
1:M:629:ARG:HB2	1:M:642:PHE:O	2.15	0.46
1:M:657:GLU:HB2	1:M:680:LYS:HD2	1.96	0.46
1:A:208:GLN:H	1:A:208:GLN:HG3	1.48	0.46
1:A:209:ASP:O	1:A:210:GLU:CB	2.63	0.46
1:A:862:TYR:CZ	1:A:881:HIS:CA	2.96	0.46
1:A:1151:ILE:N	1:A:1167:PRO:HD2	2.24	0.46
1:A:1204:VAL:HG12	1:A:1205:VAL:HG23	1.97	0.46
1:C:209:ASP:O	1:C:210:GLU:CB	2.63	0.46
1:C:514:THR:HG21	1:C:555:LEU:HD11	1.97	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:742:HIS:CE1	1:C:768:LYS:HD2	2.50	0.46
1:C:1178:GLY:O	1:C:1179:TRP:CB	2.60	0.46
1:C:1204:VAL:HG12	1:C:1205:VAL:HG23	1.97	0.46
1:C:1220:LEU:HD21	1:C:1234:THR:HG21	1.97	0.46
1:E:174:LEU:C	1:E:174:LEU:CD2	2.86	0.46
1:E:1220:LEU:HD21	1:E:1234:THR:HG21	1.97	0.46
1:E:1233:VAL:CG1	1:E:1243:ILE:HG23	2.45	0.46
1:G:138:GLN:O	1:G:141:SER:HB3	2.16	0.46
1:I:138:GLN:O	1:I:141:SER:HB3	2.16	0.46
1:I:457:HIS:NE2	1:I:493:SER:OG	2.48	0.46
1:I:922:LEU:CD1	1:I:1241:LEU:CD2	2.87	0.46
1:K:200:GLN:O	1:K:203:CYS:HB3	2.15	0.46
1:K:209:ASP:O	1:K:210:GLU:CB	2.63	0.46
1:K:448:LYS:HG2	1:K:448:LYS:O	2.15	0.46
1:K:727:LEU:HD13	1:K:758:LEU:HD22	1.97	0.46
1:K:862:TYR:CE2	1:K:881:HIS:CB	2.92	0.46
1:M:398:LYS:O	1:M:401:CYS:HB2	2.16	0.46
1:M:582:LEU:C	1:M:582:LEU:CD2	2.88	0.46
1:M:592:MET:HE2	1:M:592:MET:H	1.74	0.46
1:A:1145:GLY:HA2	1:A:1151:ILE:HD13	1.98	0.46
1:A:1178:GLY:O	1:A:1179:TRP:CB	2.60	0.46
1:A:1208:GLU:HG3	1:A:1211:GLN:NE2	2.31	0.46
1:C:592:MET:HE2	1:C:592:MET:CA	2.46	0.46
1:C:645:GLU:C	1:C:647:GLY:H	2.23	0.46
1:C:1212:THR:CG2	1:C:1213:PHE:H	2.12	0.46
1:E:928:VAL:HG12	1:E:937:VAL:CB	2.46	0.46
1:G:130:LYS:HE2	1:G:130:LYS:HB2	1.73	0.46
1:G:231:MET:HE1	1:G:240:LEU:HD11	1.96	0.46
1:G:507:LEU:HD23	1:G:510:ILE:HD12	1.98	0.46
1:G:861:GLN:N	1:G:884:TRP:HD1	2.14	0.46
1:G:903:ASP:OD1	1:G:1175:THR:HB	2.15	0.46
1:G:1051:ARG:O	1:G:1058:LEU:HD12	2.16	0.46
1:G:1151:ILE:N	1:G:1167:PRO:HD2	2.24	0.46
1:G:1233:VAL:CG1	1:G:1243:ILE:HG23	2.45	0.46
1:I:148:GLY:C	1:I:149:TRP:HD1	2.23	0.46
1:I:529:TYR:HE1	1:I:533:LEU:HD13	1.80	0.46
1:I:1136:SER:HA	1:I:1185:PHE:HD2	1.78	0.46
1:I:1220:LEU:HD23	1:I:1234:THR:CG2	2.43	0.46
1:K:231:MET:HE1	1:K:240:LEU:HD11	1.96	0.46
1:K:298:PHE:CZ	1:K:325:SER:HA	2.42	0.46
1:K:330:LEU:HD22	1:K:353:ILE:HG22	1.97	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:445:LEU:O	1:K:449:ASN:N	2.48	0.46
1:K:457:HIS:NE2	1:K:493:SER:OG	2.48	0.46
1:K:507:LEU:HD23	1:K:510:ILE:HD12	1.98	0.46
1:K:861:GLN:N	1:K:884:TRP:CD1	2.83	0.46
1:K:1022:SER:OG	1:K:1023:ASP:N	2.48	0.46
1:K:1166:ALA:N	1:K:1167:PRO:CD	2.78	0.46
1:M:244:ASP:O	1:M:245:VAL:HG23	2.16	0.46
1:M:384:THR:HB	1:M:449:ASN:OD1	2.15	0.46
1:M:861:GLN:N	1:M:884:TRP:CD1	2.83	0.46
1:M:862:TYR:HD1	1:M:885:VAL:CB	2.22	0.46
1:M:1022:SER:OG	1:M:1023:ASP:N	2.48	0.46
1:M:1208:GLU:HG3	1:M:1211:GLN:NE2	2.31	0.46
1:A:244:ASP:O	1:A:245:VAL:HG23	2.16	0.46
1:A:330:LEU:HD22	1:A:353:ILE:HG22	1.97	0.46
1:A:390:GLN:NE2	1:A:489:TYR:HE2	2.14	0.46
1:A:448:LYS:HG2	1:A:448:LYS:O	2.15	0.46
1:A:514:THR:HG21	1:A:555:LEU:HD11	1.97	0.46
1:A:568:LEU:H	1:A:568:LEU:HG	1.51	0.46
1:A:671:PHE:HE1	1:A:692:VAL:HG11	1.80	0.46
1:C:138:GLN:O	1:C:141:SER:HB3	2.16	0.46
1:C:146:GLU:C	1:C:147:PRO:O	2.58	0.46
1:C:390:GLN:NE2	1:C:489:TYR:HE2	2.14	0.46
1:C:448:LYS:HG2	1:C:448:LYS:O	2.15	0.46
1:C:1145:GLY:HA2	1:C:1151:ILE:HD13	1.98	0.46
1:C:1200:LYS:CE	1:C:1211:GLN:HB3	2.45	0.46
1:E:209:ASP:O	1:E:210:GLU:CB	2.63	0.46
1:E:252:LYS:CE	1:E:252:LYS:CA	2.92	0.46
1:E:379:ILE:CD1	1:E:417:GLU:OE1	2.63	0.46
1:E:398:LYS:O	1:E:401:CYS:HB2	2.16	0.46
1:E:446:THR:O	1:E:450:CYS:HB3	2.15	0.46
1:E:461:ILE:HD11	1:E:491:MET:HG3	1.97	0.46
1:E:645:GLU:C	1:E:647:GLY:N	2.73	0.46
1:G:137:GLN:HG2	1:G:173:LEU:CD1	2.45	0.46
1:G:197:MET:HE3	1:G:197:MET:HB2	1.76	0.46
1:G:245:VAL:C	1:G:246:TRP:HD1	2.23	0.46
1:G:928:VAL:HG12	1:G:937:VAL:CB	2.46	0.46
1:G:1057:ARG:HA	1:G:1071:ASN:HA	1.96	0.46
1:G:1204:VAL:HG12	1:G:1205:VAL:HG23	1.97	0.46
1:I:246:TRP:CD1	1:I:246:TRP:N	2.81	0.46
1:I:543:ASN:CG	1:I:574:SER:HB2	2.38	0.46
1:I:592:MET:HE2	1:I:592:MET:CA	2.46	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:681:VAL:HG11	1:I:716:LEU:HD21	1.97	0.46
1:I:1204:VAL:HG12	1:I:1205:VAL:HG23	1.97	0.46
1:I:1228:ASP:CB	1:I:1230:LYS:HG2	2.37	0.46
1:K:301:MET:O	1:K:302:LYS:C	2.58	0.46
1:K:310:ALA:O	1:K:313:ILE:HG22	2.16	0.46
1:K:398:LYS:O	1:K:401:CYS:HB2	2.16	0.46
1:K:446:THR:O	1:K:450:CYS:HB3	2.15	0.46
1:K:924:GLN:HB3	1:K:1238:LEU:CD1	2.45	0.46
1:K:1094:SER:HA	1:K:1135:PHE:CB	2.44	0.46
1:K:1182:ASP:CB	1:K:1223:ILE:HG23	2.45	0.46
1:K:1200:LYS:CE	1:K:1211:GLN:HB3	2.45	0.46
1:M:645:GLU:C	1:M:647:GLY:N	2.73	0.46
1:M:902:ASP:HB3	2:N:72:LYS:HZ2	1.80	0.46
1:M:1145:GLY:HA2	1:M:1151:ILE:HD13	1.98	0.46
1:A:200:GLN:O	1:A:203:CYS:HB3	2.15	0.46
1:A:245:VAL:C	1:A:246:TRP:HD1	2.23	0.46
1:A:481:MET:O	1:A:485:ASN:ND2	2.49	0.46
1:A:1022:SER:OG	1:A:1023:ASP:N	2.48	0.46
1:A:1213:PHE:HD2	1:A:1214:TYR:H	1.63	0.46
1:C:446:THR:O	1:C:450:CYS:HB3	2.15	0.46
1:C:753:PRO:HG3	1:C:810:GLY:HA3	1.97	0.46
1:C:923:LYS:CG	1:C:940:VAL:HG23	2.42	0.46
1:C:1208:GLU:HG3	1:C:1211:GLN:NE2	2.31	0.46
1:E:244:ASP:O	1:E:245:VAL:HG23	2.16	0.46
1:E:514:THR:HG21	1:E:555:LEU:HD11	1.97	0.46
1:E:558:GLN:CB	1:E:559:PRO:CD	2.78	0.46
1:E:1057:ARG:HA	1:E:1071:ASN:HA	1.96	0.46
1:G:261:LEU:C	1:G:261:LEU:CD1	2.85	0.46
1:G:578:GLN:NE2	1:G:578:GLN:C	2.73	0.46
1:G:1176:HIS:HB2	1:G:1218:THR:CB	2.38	0.46
1:I:155:MET:HE2	1:I:155:MET:HB2	1.69	0.46
1:I:645:GLU:C	1:I:647:GLY:H	2.23	0.46
1:I:671:PHE:HE1	1:I:692:VAL:HG11	1.80	0.46
1:I:926:VAL:HG11	1:I:938:LEU:O	2.16	0.46
1:K:578:GLN:NE2	1:K:578:GLN:C	2.73	0.46
1:K:920:VAL:C	1:K:921:MET:CG	2.85	0.46
1:K:928:VAL:HG12	1:K:937:VAL:CB	2.46	0.46
1:K:1233:VAL:CG1	1:K:1243:ILE:HG23	2.45	0.46
1:M:137:GLN:HG2	1:M:173:LEU:CD1	2.45	0.46
1:M:146:GLU:C	1:M:147:PRO:O	2.58	0.46
1:M:245:VAL:C	1:M:246:TRP:HD1	2.23	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:390:GLN:NE2	1:M:489:TYR:HE2	2.14	0.46
1:M:481:MET:O	1:M:485:ASN:ND2	2.49	0.46
1:M:496:MET:N	1:M:496:MET:SD	2.89	0.46
1:A:138:GLN:O	1:A:141:SER:HB3	2.16	0.46
1:A:231:MET:HE1	1:A:240:LEU:HD11	1.96	0.46
1:A:548:LEU:O	1:A:551:ASN:N	2.45	0.46
1:A:582:LEU:C	1:A:582:LEU:CD2	2.88	0.46
1:A:845:TYR:HB3	1:A:858:ALA:HB3	1.98	0.46
1:A:1135:PHE:CD1	1:A:1142:LEU:HD13	2.50	0.46
1:C:334:PHE:CB	1:C:337:ARG:HG2	2.45	0.46
1:C:398:LYS:O	1:C:401:CYS:HB2	2.16	0.46
1:C:505:PHE:CE2	1:C:575:GLU:OE1	2.55	0.46
1:C:529:TYR:HE1	1:C:533:LEU:HD13	1.80	0.46
1:C:836:HIS:ND1	1:C:837:THR:O	2.49	0.46
1:C:845:TYR:HB3	1:C:858:ALA:HB3	1.98	0.46
1:E:645:GLU:C	1:E:647:GLY:H	2.23	0.46
1:E:671:PHE:HE1	1:E:692:VAL:HG11	1.80	0.46
1:E:922:LEU:HD12	1:E:1241:LEU:CD2	2.39	0.46
1:E:1212:THR:CG2	1:E:1213:PHE:H	2.12	0.46
1:G:390:GLN:NE2	1:G:489:TYR:HE2	2.14	0.46
1:G:597:TRP:CH2	1:G:603:ILE:HG12	2.43	0.46
1:G:1182:ASP:CB	1:G:1223:ILE:HG23	2.45	0.46
1:I:195:LEU:HD12	1:I:195:LEU:C	2.36	0.46
1:I:245:VAL:C	1:I:246:TRP:HD1	2.23	0.46
1:I:496:MET:SD	1:I:496:MET:N	2.89	0.46
1:I:582:LEU:C	1:I:582:LEU:CD2	2.88	0.46
1:I:887:GLY:O	1:I:900:SER:N	2.49	0.46
1:I:1051:ARG:O	1:I:1058:LEU:HD12	2.16	0.46
1:I:1182:ASP:CB	1:I:1223:ILE:HG23	2.45	0.46
1:I:1220:LEU:HD21	1:I:1234:THR:HG21	1.97	0.46
1:K:529:TYR:HE1	1:K:533:LEU:HD13	1.80	0.46
1:K:1101:SER:HB3	1:K:1112:TRP:NE1	2.30	0.46
1:M:573:THR:HA	1:M:577:TYR:CD2	2.47	0.46
1:M:581:LYS:HD2	1:M:581:LYS:HA	1.68	0.46
1:M:595:LEU:HG	1:M:1201:TRP:HH2	1.71	0.46
1:M:753:PRO:HG3	1:M:810:GLY:HA3	1.97	0.46
1:M:924:GLN:HB3	1:M:1238:LEU:CD1	2.45	0.46
1:M:1200:LYS:CE	1:M:1211:GLN:HB3	2.45	0.46
1:A:137:GLN:HG2	1:A:173:LEU:CD1	2.45	0.46
1:A:334:PHE:CB	1:A:337:ARG:HG2	2.45	0.46
1:A:651:LEU:HD22	1:A:651:LEU:HA	1.79	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:924:GLN:HB3	1:A:1238:LEU:CD1	2.45	0.46
1:A:1174:ALA:O	1:A:1175:THR:CG2	2.63	0.46
1:A:1182:ASP:CB	1:A:1223:ILE:HG23	2.45	0.46
1:C:244:ASP:O	1:C:245:VAL:HG23	2.16	0.46
1:C:248:SER:O	1:C:249:TRP:C	2.57	0.46
1:C:310:ALA:O	1:C:313:ILE:HG22	2.16	0.46
1:C:516:LEU:HD12	1:C:516:LEU:HA	1.83	0.46
1:C:1057:ARG:HA	1:C:1071:ASN:HA	1.96	0.46
1:E:245:VAL:C	1:E:246:TRP:HD1	2.23	0.46
1:E:310:ALA:O	1:E:313:ILE:HG22	2.16	0.46
1:E:448:LYS:O	1:E:448:LYS:HG2	2.15	0.46
1:E:507:LEU:HD23	1:E:510:ILE:HD12	1.98	0.46
1:E:1022:SER:OG	1:E:1023:ASP:N	2.48	0.46
1:E:1101:SER:HB3	1:E:1112:TRP:NE1	2.30	0.46
1:G:597:TRP:CZ2	1:G:603:ILE:CG1	2.94	0.46
1:G:926:VAL:HG11	1:G:938:LEU:O	2.16	0.46
1:G:1208:GLU:HG3	1:G:1211:GLN:NE2	2.31	0.46
1:I:398:LYS:O	1:I:401:CYS:HB2	2.16	0.46
1:I:578:GLN:NE2	1:I:578:GLN:C	2.73	0.46
1:I:657:GLU:HB2	1:I:680:LYS:HD2	1.96	0.46
1:I:923:LYS:CG	1:I:940:VAL:HG23	2.42	0.46
1:I:1200:LYS:CE	1:I:1211:GLN:HB3	2.45	0.46
1:K:138:GLN:O	1:K:141:SER:HB3	2.16	0.46
1:K:245:VAL:C	1:K:246:TRP:HD1	2.23	0.46
1:K:334:PHE:CB	1:K:337:ARG:HG2	2.45	0.46
1:K:384:THR:HB	1:K:449:ASN:OD1	2.15	0.46
1:K:887:GLY:O	1:K:900:SER:N	2.49	0.46
1:K:1220:LEU:HD21	1:K:1234:THR:HG21	1.97	0.46
1:M:317:CYS:C	1:M:318:LYS:CG	2.85	0.46
1:M:507:LEU:HD23	1:M:510:ILE:HD12	1.98	0.46
1:M:861:GLN:N	1:M:884:TRP:HD1	2.14	0.46
1:A:642:PHE:CE2	1:A:644:ALA:HA	2.51	0.46
1:C:130:LYS:HB2	1:C:130:LYS:HE2	1.73	0.46
1:C:461:ILE:HD11	1:C:491:MET:CG	2.44	0.46
1:C:582:LEU:C	1:C:582:LEU:CD2	2.88	0.46
1:C:642:PHE:CE2	1:C:644:ALA:HA	2.51	0.46
1:C:922:LEU:HD12	1:C:1241:LEU:CD2	2.39	0.46
1:C:1174:ALA:O	1:C:1175:THR:CG2	2.63	0.46
1:C:1174:ALA:O	1:C:1175:THR:HG22	2.16	0.46
1:E:429:ASN:HD22	1:E:429:ASN:HA	1.66	0.46
1:E:496:MET:N	1:E:496:MET:SD	2.89	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:505:PHE:CE2	1:E:575:GLU:OE1	2.55	0.46
1:E:529:TYR:HE1	1:E:533:LEU:HD13	1.80	0.46
1:E:844:GLN:HB3	1:E:884:TRP:HZ2	1.80	0.46
1:E:920:VAL:C	1:E:921:MET:CG	2.85	0.46
1:E:920:VAL:HG12	1:E:921:MET:N	2.25	0.46
1:E:923:LYS:CG	1:E:940:VAL:HG23	2.42	0.46
1:E:1145:GLY:HA2	1:E:1151:ILE:HD13	1.98	0.46
1:G:190:GLN:OE1	1:G:190:GLN:HA	2.16	0.46
1:G:209:ASP:O	1:G:210:GLU:CB	2.63	0.46
1:G:231:MET:HG2	1:G:258:CYS:HB2	1.98	0.46
1:G:244:ASP:O	1:G:245:VAL:HG23	2.16	0.46
1:G:310:ALA:O	1:G:313:ILE:HG22	2.16	0.46
1:G:481:MET:O	1:G:485:ASN:ND2	2.49	0.46
1:G:879:ARG:CB	1:G:921:MET:CE	2.73	0.46
1:G:887:GLY:O	1:G:900:SER:N	2.49	0.46
1:G:1182:ASP:HB3	1:G:1223:ILE:HG23	1.98	0.46
1:I:231:MET:HG2	1:I:258:CYS:HB2	1.98	0.46
1:I:244:ASP:O	1:I:245:VAL:HG23	2.16	0.46
1:I:310:ALA:O	1:I:313:ILE:HG22	2.16	0.46
1:I:384:THR:HB	1:I:449:ASN:OD1	2.15	0.46
1:I:507:LEU:HD23	1:I:510:ILE:HD12	1.98	0.46
1:I:544:PHE:HD1	1:I:576:VAL:CG1	2.17	0.46
1:I:1065:GLY:HA2	1:I:1088:VAL:HG23	1.97	0.46
1:I:1181:THR:CG2	1:I:1221:LYS:HA	2.40	0.46
1:K:461:ILE:HD11	1:K:491:MET:HG3	1.97	0.46
1:K:582:LEU:C	1:K:582:LEU:CD2	2.88	0.46
1:K:866:LEU:HG	1:K:875:VAL:HB	1.98	0.46
1:K:1051:ARG:O	1:K:1058:LEU:HD12	2.16	0.46
1:K:1201:TRP:CB	1:K:1210:SER:O	2.58	0.46
1:M:209:ASP:O	1:M:210:GLU:CB	2.63	0.46
1:M:310:ALA:O	1:M:313:ILE:HG22	2.16	0.46
1:M:420:ASN:C	1:M:422:SER:N	2.74	0.46
1:M:447:GLU:OE1	1:M:447:GLU:HA	2.16	0.46
1:M:887:GLY:O	1:M:900:SER:N	2.49	0.46
1:A:544:PHE:HD1	1:A:576:VAL:CG1	2.17	0.45
1:A:844:GLN:HB3	1:A:884:TRP:HZ2	1.80	0.45
1:A:1200:LYS:CE	1:A:1211:GLN:HB3	2.45	0.45
1:C:481:MET:O	1:C:485:ASN:ND2	2.49	0.45
1:C:557:ARG:HA	1:C:557:ARG:HD3	1.87	0.45
1:C:1022:SER:OG	1:C:1023:ASP:N	2.48	0.45
1:E:1051:ARG:O	1:E:1058:LEU:HD12	2.16	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1200:LYS:CE	1:E:1211:GLN:CB	2.95	0.45
1:G:533:LEU:HB3	1:G:534:ASP:H	1.59	0.45
1:I:610:VAL:HG22	1:I:907:ARG:CG	2.43	0.45
1:K:557:ARG:CG	1:K:558:GLN:N	2.79	0.45
1:K:922:LEU:HD12	1:K:1241:LEU:CD2	2.39	0.45
1:K:1174:ALA:O	1:K:1175:THR:CG2	2.64	0.45
1:K:1200:LYS:CE	1:K:1211:GLN:CB	2.95	0.45
1:M:155:MET:HE2	1:M:155:MET:HB2	1.69	0.45
1:M:260:ILE:O	1:M:260:ILE:HG13	2.05	0.45
1:M:330:LEU:HD22	1:M:353:ILE:HG22	1.97	0.45
1:M:642:PHE:CE2	1:M:644:ALA:HA	2.52	0.45
1:M:866:LEU:HG	1:M:875:VAL:HB	1.98	0.45
1:M:1051:ARG:O	1:M:1058:LEU:HD12	2.16	0.45
1:A:883:SER:OG	1:A:902:ASP:N	2.50	0.45
1:A:903:ASP:OD1	1:A:1175:THR:HB	2.15	0.45
1:A:1232:TYR:OH	1:A:1234:THR:CB	2.59	0.45
1:C:190:GLN:OE1	1:C:190:GLN:HA	2.16	0.45
1:C:533:LEU:HB3	1:C:534:ASP:H	1.59	0.45
1:C:681:VAL:HG11	1:C:716:LEU:HD21	1.97	0.45
1:C:924:GLN:HB3	1:C:1238:LEU:CD1	2.45	0.45
1:C:926:VAL:HG11	1:C:938:LEU:O	2.16	0.45
1:E:130:LYS:HB2	1:E:130:LYS:HE2	1.73	0.45
1:E:481:MET:O	1:E:485:ASN:ND2	2.49	0.45
1:E:603:ILE:CB	1:E:1240:ILE:HG21	2.47	0.45
1:G:231:MET:HE3	1:G:231:MET:HB2	1.77	0.45
1:G:248:SER:O	1:G:249:TRP:C	2.57	0.45
1:G:1200:LYS:CE	1:G:1211:GLN:CB	2.95	0.45
1:I:866:LEU:HG	1:I:875:VAL:HB	1.98	0.45
1:I:883:SER:OG	1:I:902:ASP:N	2.50	0.45
1:I:1200:LYS:CE	1:I:1211:GLN:CB	2.95	0.45
1:K:261:LEU:C	1:K:261:LEU:CD1	2.85	0.45
1:K:447:GLU:OE1	1:K:447:GLU:HA	2.17	0.45
1:K:481:MET:O	1:K:485:ASN:ND2	2.49	0.45
1:K:645:GLU:C	1:K:647:GLY:H	2.23	0.45
1:M:445:LEU:O	1:M:449:ASN:N	2.48	0.45
1:M:448:LYS:O	1:M:448:LYS:HG2	2.15	0.45
1:M:453:LEU:CD1	1:M:454:GLN:N	2.73	0.45
1:M:862:TYR:CZ	1:M:881:HIS:CA	2.96	0.45
1:M:875:VAL:CG1	1:M:915:CYS:SG	2.94	0.45
1:M:1151:ILE:N	1:M:1167:PRO:HD2	2.24	0.45
1:M:1174:ALA:O	1:M:1175:THR:CG2	2.63	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:1201:TRP:CB	1:M:1210:SER:O	2.58	0.45
1:A:149:TRP:HZ2	1:A:255:ASP:HA	1.81	0.45
1:A:384:THR:O	1:A:387:SER:CB	2.65	0.45
1:A:447:GLU:OE1	1:A:447:GLU:HA	2.17	0.45
1:A:887:GLY:O	1:A:900:SER:N	2.49	0.45
1:A:922:LEU:CD1	1:A:1241:LEU:CD2	2.87	0.45
1:A:928:VAL:HG12	1:A:937:VAL:CB	2.46	0.45
1:A:1065:GLY:HA2	1:A:1088:VAL:HG23	1.97	0.45
1:C:245:VAL:C	1:C:246:TRP:HD1	2.23	0.45
1:C:603:ILE:CB	1:C:1240:ILE:HG21	2.47	0.45
1:E:137:GLN:HG2	1:E:173:LEU:CD1	2.45	0.45
1:E:534:ASP:O	1:E:538:CYS:SG	2.69	0.45
1:E:681:VAL:HG11	1:E:716:LEU:HD21	1.97	0.45
1:E:926:VAL:HG11	1:E:938:LEU:O	2.16	0.45
1:E:1025:ALA:CB	1:E:1044:GLN:O	2.65	0.45
1:E:1182:ASP:HB3	1:E:1223:ILE:HG23	1.98	0.45
1:G:334:PHE:CB	1:G:337:ARG:HG2	2.45	0.45
1:G:457:HIS:NE2	1:G:493:SER:OG	2.48	0.45
1:G:681:VAL:HG11	1:G:716:LEU:HD21	1.97	0.45
1:I:147:PRO:HG3	1:K:121:GLN:HE22	1.79	0.45
1:I:514:THR:O	1:I:514:THR:HG23	2.15	0.45
1:I:928:VAL:HG12	1:I:937:VAL:CB	2.46	0.45
1:I:1174:ALA:O	1:I:1175:THR:HG22	2.17	0.45
1:K:557:ARG:HA	1:K:557:ARG:HD3	1.87	0.45
1:M:231:MET:HE1	1:M:240:LEU:HD11	1.97	0.45
1:M:384:THR:O	1:M:387:SER:CB	2.65	0.45
1:M:558:GLN:C	1:M:560:PHE:N	2.75	0.45
1:M:920:VAL:C	1:M:921:MET:CG	2.85	0.45
1:M:1174:ALA:O	1:M:1175:THR:HG22	2.17	0.45
1:A:529:TYR:HE1	1:A:533:LEU:HD13	1.80	0.45
1:A:592:MET:HE2	1:A:592:MET:CA	2.46	0.45
1:A:866:LEU:HG	1:A:875:VAL:HB	1.98	0.45
1:C:597:TRP:CZ2	1:C:603:ILE:CG1	2.94	0.45
1:C:597:TRP:CD1	1:C:1243:ILE:N	2.85	0.45
1:C:928:VAL:HG12	1:C:937:VAL:CB	2.46	0.45
1:E:149:TRP:HZ2	1:E:255:ASP:HA	1.81	0.45
1:E:221:GLU:O	1:E:224:LYS:HB3	2.17	0.45
1:E:384:THR:O	1:E:387:SER:CB	2.65	0.45
1:E:836:HIS:ND1	1:E:837:THR:O	2.49	0.45
1:E:845:TYR:HB3	1:E:858:ALA:HB3	1.98	0.45
1:E:861:GLN:N	1:E:884:TRP:HD1	2.14	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1065:GLY:HA2	1:E:1088:VAL:HG23	1.97	0.45
1:E:1208:GLU:HG3	1:E:1211:GLN:NE2	2.31	0.45
1:G:337:ARG:HD3	1:G:341:TYR:CE2	2.52	0.45
1:G:359:TYR:CD1	1:G:359:TYR:C	2.86	0.45
1:G:359:TYR:HE1	1:G:361:TYR:CD1	2.32	0.45
1:G:434:ARG:CG	1:G:434:ARG:HH21	2.30	0.45
1:G:445:LEU:O	1:G:449:ASN:N	2.48	0.45
1:G:496:MET:N	1:G:496:MET:SD	2.89	0.45
1:G:883:SER:OG	1:G:902:ASP:N	2.50	0.45
1:I:246:TRP:HH2	1:I:370:ILE:HG22	1.82	0.45
1:I:920:VAL:C	1:I:921:MET:CG	2.85	0.45
1:I:1182:ASP:HB3	1:I:1223:ILE:HG23	1.99	0.45
1:I:1208:GLU:HG3	1:I:1211:GLN:NE2	2.31	0.45
1:K:231:MET:HG2	1:K:258:CYS:HB2	1.98	0.45
1:K:592:MET:HE2	1:K:592:MET:CA	2.46	0.45
1:K:641:VAL:HB	1:K:651:LEU:HB2	1.97	0.45
1:K:671:PHE:HE1	1:K:692:VAL:HG11	1.80	0.45
1:K:1176:HIS:HB2	1:K:1218:THR:CB	2.38	0.45
1:K:1213:PHE:HD2	1:K:1214:TYR:H	1.63	0.45
1:M:473:LEU:HD22	1:M:484:TYR:CE1	2.43	0.45
1:A:136:ILE:HD13	1:A:152:ILE:HD13	1.99	0.45
1:A:434:ARG:CG	1:A:434:ARG:HH21	2.30	0.45
1:A:507:LEU:HD23	1:A:510:ILE:HD12	1.98	0.45
1:A:862:TYR:CE2	1:A:881:HIS:CB	2.93	0.45
1:A:926:VAL:HG11	1:A:938:LEU:O	2.16	0.45
1:C:137:GLN:HG2	1:C:173:LEU:CD1	2.45	0.45
1:C:507:LEU:HD23	1:C:510:ILE:HD12	1.98	0.45
1:C:1176:HIS:HB3	1:C:1218:THR:CG2	2.40	0.45
1:E:231:MET:HG2	1:E:258:CYS:HB2	1.98	0.45
1:E:1166:ALA:N	1:E:1167:PRO:CD	2.78	0.45
2:F:16:GLN:OE1	2:F:16:GLN:N	2.47	0.45
1:G:318:LYS:HD3	1:G:439:ASP:HB2	1.98	0.45
1:G:384:THR:O	1:G:387:SER:CB	2.65	0.45
1:G:514:THR:HG23	1:G:514:THR:O	2.15	0.45
1:G:922:LEU:HD12	1:G:1241:LEU:CD2	2.39	0.45
1:G:1106:ASP:HA	1:G:1129:CYS:HB3	1.99	0.45
5:H:201:HEM:CBC	5:H:201:HEM:HMC1	2.28	0.45
1:I:457:HIS:CD2	1:I:493:SER:OG	2.69	0.45
1:I:845:TYR:OH	1:I:888:VAL:O	2.25	0.45
1:I:861:GLN:N	1:I:884:TRP:HD1	2.14	0.45
1:K:434:ARG:CG	1:K:434:ARG:HH21	2.30	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:642:PHE:CE2	1:K:644:ALA:HA	2.52	0.45
1:K:816:ALA:HB2	1:K:821:ILE:HG12	1.99	0.45
1:K:1145:GLY:HA2	1:K:1151:ILE:HD13	1.98	0.45
1:K:1174:ALA:O	1:K:1175:THR:HG22	2.17	0.45
1:M:195:LEU:HD12	1:M:195:LEU:C	2.36	0.45
1:M:845:TYR:HB3	1:M:858:ALA:HB3	1.98	0.45
1:A:221:GLU:O	1:A:224:LYS:HB3	2.17	0.45
1:A:310:ALA:O	1:A:313:ILE:HG22	2.16	0.45
1:A:364:LEU:CD1	1:A:364:LEU:C	2.90	0.45
1:A:453:LEU:CD1	1:A:454:GLN:N	2.73	0.45
1:A:496:MET:SD	1:A:496:MET:N	2.89	0.45
1:A:514:THR:HG23	1:A:514:THR:O	2.15	0.45
1:A:597:TRP:CD1	1:A:1243:ILE:N	2.85	0.45
1:A:673:ALA:H	1:A:707:PHE:HE2	1.65	0.45
1:A:681:VAL:O	1:A:694:THR:HA	2.17	0.45
1:A:922:LEU:HD12	1:A:1241:LEU:CD2	2.39	0.45
1:A:1025:ALA:CB	1:A:1044:GLN:O	2.65	0.45
1:C:149:TRP:HZ2	1:C:255:ASP:HA	1.82	0.45
1:C:862:TYR:HD1	1:C:885:VAL:CB	2.22	0.45
1:C:1200:LYS:CE	1:C:1211:GLN:CB	2.95	0.45
2:D:16:GLN:OE1	2:D:16:GLN:N	2.47	0.45
1:E:318:LYS:HD3	1:E:439:ASP:HB2	1.98	0.45
1:E:337:ARG:HD3	1:E:341:TYR:CE2	2.52	0.45
1:E:403:LEU:HD11	1:E:459:LYS:HZ2	1.81	0.45
1:E:597:TRP:CD1	1:E:1243:ILE:N	2.85	0.45
1:E:642:PHE:CE2	1:E:644:ALA:HA	2.51	0.45
1:E:1176:HIS:HB3	1:E:1218:THR:CG2	2.40	0.45
1:E:1182:ASP:CG	1:E:1223:ILE:HD13	2.42	0.45
1:G:221:GLU:O	1:G:224:LYS:HB3	2.17	0.45
1:G:1174:ALA:O	1:G:1175:THR:HG22	2.16	0.45
1:I:337:ARG:HD3	1:I:341:TYR:CE2	2.52	0.45
1:I:420:ASN:C	1:I:422:SER:N	2.74	0.45
1:I:473:LEU:CD1	1:I:480:CYS:HB3	2.46	0.45
1:I:816:ALA:HB2	1:I:821:ILE:HG12	1.99	0.45
1:I:1106:ASP:HA	1:I:1129:CYS:HB3	1.99	0.45
1:I:1182:ASP:CG	1:I:1223:ILE:HD13	2.42	0.45
1:I:1201:TRP:CB	1:I:1210:SER:O	2.58	0.45
1:K:171:HIS:CD2	1:K:171:HIS:O	2.70	0.45
1:K:246:TRP:HH2	1:K:370:ILE:HG22	1.82	0.45
1:K:384:THR:O	1:K:387:SER:CB	2.65	0.45
1:K:473:LEU:CD1	1:K:480:CYS:HB3	2.47	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:496:MET:N	1:K:496:MET:SD	2.89	0.45
1:K:514:THR:HG21	1:K:555:LEU:HD11	1.97	0.45
1:K:514:THR:O	1:K:514:THR:HG23	2.15	0.45
1:K:581:LYS:HA	1:K:581:LYS:HD2	1.68	0.45
1:K:673:ALA:H	1:K:707:PHE:HE2	1.65	0.45
1:K:861:GLN:N	1:K:884:TRP:HD1	2.14	0.45
1:M:171:HIS:CD2	1:M:171:HIS:O	2.70	0.45
1:M:514:THR:HG21	1:M:555:LEU:HD11	1.97	0.45
1:M:556:GLY:O	1:M:557:ARG:O	2.35	0.45
1:M:816:ALA:HB2	1:M:821:ILE:HG12	1.99	0.45
1:M:836:HIS:ND1	1:M:837:THR:O	2.49	0.45
1:A:588:VAL:HG11	1:A:1248:GLU:C	2.42	0.45
1:A:603:ILE:CB	1:A:1240:ILE:HG21	2.47	0.45
1:A:1063:PHE:HA	1:A:1087:THR:HG22	1.99	0.45
1:C:221:GLU:O	1:C:224:LYS:HB3	2.17	0.45
1:C:460:ILE:HD13	1:C:490:HIS:CD2	2.52	0.45
1:C:496:MET:HE3	1:C:496:MET:CA	2.31	0.45
1:C:673:ALA:H	1:C:707:PHE:HE2	1.65	0.45
1:C:1244:LEU:HD12	1:C:1244:LEU:C	2.42	0.45
1:E:330:LEU:HD12	1:E:330:LEU:HA	1.74	0.45
1:E:561:PRO:CB	1:E:1214:TYR:CD2	2.86	0.45
1:E:922:LEU:CD1	1:E:1241:LEU:CD2	2.87	0.45
1:G:251:LEU:HD11	1:G:262:LEU:HD13	1.99	0.45
1:G:457:HIS:CD2	1:G:493:SER:OG	2.69	0.45
1:G:473:LEU:HD22	1:G:484:TYR:CE1	2.43	0.45
1:G:603:ILE:CB	1:G:1240:ILE:HG21	2.47	0.45
1:G:629:ARG:HB2	1:G:642:PHE:O	2.15	0.45
1:G:651:LEU:HD22	1:G:651:LEU:HA	1.79	0.45
1:G:1011:PHE:HE1	1:G:1018:LEU:HD13	1.82	0.45
1:G:1145:GLY:HA2	1:G:1151:ILE:HD13	1.98	0.45
1:G:1244:LEU:HD12	1:G:1244:LEU:C	2.42	0.45
1:I:146:GLU:O	1:I:147:PRO:C	2.60	0.45
1:I:306:LEU:HA	1:I:307:PRO:HD3	1.76	0.45
1:I:390:GLN:NE2	1:I:489:TYR:HE2	2.14	0.45
1:I:461:ILE:HD11	1:I:491:MET:HG3	1.97	0.45
1:I:481:MET:O	1:I:485:ASN:ND2	2.49	0.45
1:I:514:THR:HG21	1:I:555:LEU:HD11	1.97	0.45
1:I:642:PHE:CE2	1:I:644:ALA:HA	2.52	0.45
1:I:1151:ILE:N	1:I:1167:PRO:HD2	2.24	0.45
1:K:390:GLN:NE2	1:K:489:TYR:HE2	2.14	0.45
1:K:457:HIS:CD2	1:K:493:SER:OG	2.69	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:862:TYR:CZ	1:K:881:HIS:CA	2.97	0.45
1:K:1182:ASP:CG	1:K:1223:ILE:HD13	2.42	0.45
1:M:221:GLU:O	1:M:224:LYS:HB3	2.17	0.45
1:M:251:LEU:HD11	1:M:262:LEU:HD13	1.99	0.45
1:M:434:ARG:CG	1:M:434:ARG:HH21	2.30	0.45
1:M:514:THR:O	1:M:514:THR:HG23	2.15	0.45
1:M:673:ALA:H	1:M:707:PHE:HE2	1.65	0.45
1:M:1063:PHE:HA	1:M:1087:THR:HG22	1.99	0.45
1:M:1182:ASP:CG	1:M:1223:ILE:HD13	2.42	0.45
1:M:1200:LYS:CE	1:M:1211:GLN:CB	2.95	0.45
1:A:231:MET:HE3	1:A:231:MET:HB2	1.77	0.45
1:A:251:LEU:HD11	1:A:262:LEU:HD13	1.99	0.45
1:A:836:HIS:ND1	1:A:837:THR:O	2.49	0.45
1:A:1011:PHE:HE1	1:A:1018:LEU:HD13	1.82	0.45
1:A:1176:HIS:HB2	1:A:1218:THR:CB	2.38	0.45
2:B:16:GLN:OE1	2:B:16:GLN:N	2.47	0.45
1:C:251:LEU:HD22	1:C:260:ILE:HD11	1.99	0.45
1:C:434:ARG:CG	1:C:434:ARG:HH21	2.30	0.45
1:C:447:GLU:OE1	1:C:447:GLU:HA	2.16	0.45
1:C:671:PHE:HE1	1:C:692:VAL:HG11	1.81	0.45
1:C:1051:ARG:O	1:C:1058:LEU:HD12	2.16	0.45
1:C:1065:GLY:HA2	1:C:1088:VAL:HG23	1.97	0.45
1:C:1182:ASP:CG	1:C:1223:ILE:HD13	2.42	0.45
1:E:136:ILE:HD13	1:E:152:ILE:HD13	1.99	0.45
1:E:270:THR:O	1:E:270:THR:OG1	2.32	0.45
1:E:597:TRP:CZ2	1:E:603:ILE:CG1	2.94	0.45
1:E:835:ILE:HG12	1:E:869:THR:HA	1.99	0.45
1:E:887:GLY:O	1:E:900:SER:N	2.49	0.45
1:E:903:ASP:OD1	1:E:1175:THR:HB	2.15	0.45
1:G:420:ASN:C	1:G:422:SER:N	2.74	0.45
1:G:642:PHE:CE2	1:G:644:ALA:HA	2.51	0.45
1:G:681:VAL:O	1:G:694:THR:HA	2.17	0.45
1:G:836:HIS:ND1	1:G:837:THR:O	2.49	0.45
1:G:999:ARG:CG	1:G:1030:TRP:CD2	3.00	0.45
1:G:1025:ALA:CB	1:G:1044:GLN:O	2.65	0.45
1:G:1065:GLY:HA2	1:G:1088:VAL:HG23	1.97	0.45
1:G:1187:PRO:HG2	1:G:1229:PHE:CB	2.42	0.45
1:I:171:HIS:CD2	1:I:171:HIS:O	2.70	0.45
1:I:384:THR:O	1:I:387:SER:CB	2.65	0.45
1:I:529:TYR:O	1:I:529:TYR:CD1	2.70	0.45
1:I:673:ALA:H	1:I:707:PHE:HE2	1.65	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:603:ILE:CB	1:K:1240:ILE:HG21	2.47	0.45
1:K:836:HIS:ND1	1:K:837:THR:O	2.49	0.45
1:M:592:MET:HE2	1:M:592:MET:CA	2.46	0.45
1:M:603:ILE:CB	1:M:1240:ILE:HG21	2.47	0.45
1:M:681:VAL:O	1:M:694:THR:HA	2.17	0.45
1:M:1106:ASP:HA	1:M:1129:CYS:HB3	1.99	0.45
1:M:1198:TYR:HB2	1:M:1215:THR:H	1.82	0.45
1:A:171:HIS:CD2	1:A:171:HIS:O	2.70	0.45
1:A:420:ASN:C	1:A:422:SER:N	2.74	0.45
1:A:753:PRO:HG3	1:A:810:GLY:HA3	1.97	0.45
1:A:835:ILE:HG12	1:A:869:THR:HA	1.99	0.45
1:A:877:ASP:OD1	1:A:878:CYS:N	2.50	0.45
1:A:1051:ARG:O	1:A:1058:LEU:HD12	2.16	0.45
1:A:1106:ASP:HA	1:A:1129:CYS:HB3	1.99	0.45
1:A:1182:ASP:CG	1:A:1223:ILE:HD13	2.42	0.45
1:C:246:TRP:HH2	1:C:370:ILE:HG22	1.82	0.45
1:C:496:MET:N	1:C:496:MET:SD	2.89	0.45
1:C:534:ASP:O	1:C:538:CYS:SG	2.69	0.45
1:C:588:VAL:HG11	1:C:1248:GLU:C	2.42	0.45
1:C:835:ILE:HG12	1:C:869:THR:HA	1.99	0.45
1:C:877:ASP:OD1	1:C:878:CYS:N	2.50	0.45
1:C:920:VAL:HG12	1:C:921:MET:N	2.25	0.45
1:C:1106:ASP:HA	1:C:1129:CYS:HB3	1.99	0.45
1:E:434:ARG:CG	1:E:434:ARG:HH21	2.30	0.45
1:E:500:LEU:HD11	1:E:504:MET:SD	2.57	0.45
1:E:1106:ASP:HA	1:E:1129:CYS:HB3	1.99	0.45
1:E:1174:ALA:O	1:E:1175:THR:HG22	2.17	0.45
1:E:1226:SER:CB	1:E:1227:PRO:HD2	2.47	0.45
1:G:416:GLN:HE21	1:G:416:GLN:C	2.25	0.45
1:G:514:THR:HG21	1:G:555:LEU:HD11	1.97	0.45
1:G:1048:LYS:HD3	1:G:1063:PHE:CZ	2.52	0.45
1:G:1182:ASP:CG	1:G:1223:ILE:HD13	2.42	0.45
1:I:221:GLU:O	1:I:224:LYS:HB3	2.17	0.45
1:I:251:LEU:HD11	1:I:262:LEU:HD13	1.99	0.45
1:I:836:HIS:ND1	1:I:837:THR:O	2.49	0.45
1:I:999:ARG:CG	1:I:1030:TRP:CD2	3.00	0.45
1:K:926:VAL:HG11	1:K:938:LEU:O	2.16	0.45
1:K:1106:ASP:HA	1:K:1129:CYS:HB3	1.99	0.45
1:M:149:TRP:HZ2	1:M:255:ASP:HA	1.81	0.45
1:M:835:ILE:HG12	1:M:869:THR:HA	1.99	0.45
1:A:246:TRP:HH2	1:A:370:ILE:HG22	1.82	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:500:LEU:HD11	1:A:504:MET:SD	2.57	0.45
1:C:231:MET:HG2	1:C:258:CYS:HB2	1.98	0.45
1:C:252:LYS:CE	1:C:252:LYS:CA	2.92	0.45
1:C:866:LEU:HG	1:C:875:VAL:HB	1.98	0.45
1:C:887:GLY:O	1:C:900:SER:N	2.49	0.45
1:C:1048:LYS:HD3	1:C:1063:PHE:CZ	2.52	0.45
1:C:1175:THR:O	1:C:1176:HIS:CG	2.71	0.45
1:E:359:TYR:CD1	1:E:359:TYR:C	2.85	0.45
1:E:460:ILE:HD13	1:E:490:HIS:CD2	2.52	0.45
1:E:514:THR:O	1:E:514:THR:HG23	2.15	0.45
1:E:877:ASP:OD1	1:E:878:CYS:N	2.50	0.45
1:E:1187:PRO:HG2	1:E:1229:PHE:CB	2.42	0.45
1:G:588:VAL:HG11	1:G:1248:GLU:C	2.42	0.45
1:G:1175:THR:OG1	1:G:1176:HIS:CE1	2.70	0.45
1:I:318:LYS:HD3	1:I:439:ASP:HB2	1.98	0.45
1:I:447:GLU:OE1	1:I:447:GLU:HA	2.17	0.45
1:I:588:VAL:HG11	1:I:1248:GLU:C	2.42	0.45
1:I:1145:GLY:HA2	1:I:1151:ILE:HD13	1.98	0.45
1:K:190:GLN:OE1	1:K:190:GLN:HA	2.16	0.45
1:K:221:GLU:O	1:K:224:LYS:HB3	2.17	0.45
1:K:251:LEU:HD11	1:K:262:LEU:HD13	1.99	0.45
1:K:529:TYR:O	1:K:529:TYR:CD1	2.70	0.45
1:K:681:VAL:O	1:K:694:THR:HA	2.17	0.45
1:K:1063:PHE:HA	1:K:1087:THR:HG22	1.99	0.45
1:K:1151:ILE:N	1:K:1167:PRO:HD2	2.24	0.45
1:M:190:GLN:OE1	1:M:190:GLN:HA	2.16	0.45
1:M:246:TRP:HH2	1:M:370:ILE:HG22	1.82	0.45
1:M:294:ILE:HG22	1:M:295:LEU:N	2.32	0.45
1:M:557:ARG:CG	1:M:558:GLN:N	2.79	0.45
1:A:416:GLN:HE21	1:A:416:GLN:C	2.25	0.44
1:A:460:ILE:HD13	1:A:490:HIS:CD2	2.52	0.44
1:A:556:GLY:O	1:A:557:ARG:O	2.35	0.44
1:A:816:ALA:HB2	1:A:821:ILE:HG12	1.99	0.44
1:A:1175:THR:O	1:A:1176:HIS:CD2	2.71	0.44
1:A:1182:ASP:HB3	1:A:1223:ILE:HG23	1.98	0.44
1:C:294:ILE:HG22	1:C:295:LEU:N	2.32	0.44
1:C:500:LEU:HD11	1:C:504:MET:SD	2.57	0.44
1:C:543:ASN:CG	1:C:574:SER:HB2	2.38	0.44
1:C:862:TYR:CE2	1:C:881:HIS:CB	2.93	0.44
1:C:903:ASP:OD1	1:C:1175:THR:HB	2.15	0.44
1:C:1198:TYR:HB2	1:C:1215:THR:HG23	2.00	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:190:GLN:OE1	1:E:190:GLN:HA	2.16	0.44
1:E:251:LEU:HD22	1:E:260:ILE:HD11	1.99	0.44
1:E:251:LEU:HD11	1:E:262:LEU:HD13	1.99	0.44
1:E:639:LEU:CG	1:E:653:ILE:HD12	2.43	0.44
1:E:673:ALA:H	1:E:707:PHE:HE2	1.65	0.44
1:E:999:ARG:HA	1:E:999:ARG:HD2	1.74	0.44
1:E:1011:PHE:HE1	1:E:1018:LEU:HD13	1.82	0.44
1:E:1048:LYS:HD3	1:E:1063:PHE:CZ	2.52	0.44
1:E:1198:TYR:HB2	1:E:1215:THR:HG23	2.00	0.44
1:E:1213:PHE:O	1:E:1214:TYR:CB	2.49	0.44
1:E:1232:TYR:O	1:E:1244:LEU:HD23	2.17	0.44
2:F:17:CYS:HG	5:F:201:HEM:CBC	2.25	0.44
1:G:364:LEU:CD1	1:G:364:LEU:C	2.90	0.44
1:G:461:ILE:HD11	1:G:491:MET:HG3	1.97	0.44
1:G:645:GLU:C	1:G:647:GLY:N	2.73	0.44
1:G:866:LEU:HG	1:G:875:VAL:HB	1.98	0.44
1:G:1198:TYR:HB2	1:G:1215:THR:H	1.82	0.44
1:I:445:LEU:O	1:I:449:ASN:N	2.48	0.44
1:I:845:TYR:CG	1:I:846:CYS:N	2.85	0.44
1:K:256:SER:O	1:K:257:GLN:CB	2.65	0.44
1:K:883:SER:OG	1:K:902:ASP:N	2.50	0.44
1:K:910:GLU:HG2	1:K:912:LYS:H	1.83	0.44
1:K:1032:TRP:O	1:K:1034:LEU:N	2.49	0.44
1:M:231:MET:HG2	1:M:258:CYS:HB2	1.98	0.44
1:M:910:GLU:HG2	1:M:912:LYS:H	1.83	0.44
1:M:926:VAL:HG11	1:M:938:LEU:O	2.16	0.44
1:M:1025:ALA:CB	1:M:1044:GLN:O	2.65	0.44
1:M:1166:ALA:N	1:M:1167:PRO:CD	2.78	0.44
1:M:1175:THR:O	1:M:1176:HIS:CG	2.70	0.44
1:M:1178:GLY:O	1:M:1179:TRP:CB	2.60	0.44
1:A:121:GLN:HE22	1:M:147:PRO:HG3	1.79	0.44
1:A:762:SER:OG	1:A:764:ASP:OD1	2.25	0.44
1:A:1160:GLU:O	1:A:1162:LEU:N	2.49	0.44
1:A:1174:ALA:O	1:A:1175:THR:HG22	2.16	0.44
1:A:1175:THR:OG1	1:A:1176:HIS:CE1	2.71	0.44
1:A:1226:SER:CB	1:A:1227:PRO:HD2	2.47	0.44
1:C:171:HIS:CD2	1:C:171:HIS:O	2.70	0.44
1:C:318:LYS:HD3	1:C:439:ASP:HB2	1.98	0.44
1:C:337:ARG:HD3	1:C:341:TYR:CE2	2.52	0.44
1:C:359:TYR:HE1	1:C:361:TYR:CD1	2.32	0.44
1:C:384:THR:O	1:C:387:SER:CB	2.65	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:556:GLY:O	1:C:557:ARG:O	2.35	0.44
1:C:736:ARG:NH1	1:C:772:ALA:O	2.39	0.44
1:C:883:SER:OG	1:C:902:ASP:N	2.50	0.44
1:C:1063:PHE:HA	1:C:1087:THR:HG22	1.99	0.44
1:C:1175:THR:OG1	1:C:1176:HIS:CE1	2.71	0.44
1:C:1212:THR:CG2	1:C:1213:PHE:N	2.72	0.44
1:C:1226:SER:CB	1:C:1227:PRO:HD2	2.47	0.44
1:C:1232:TYR:O	1:C:1244:LEU:HD23	2.17	0.44
1:E:140:LEU:HD11	1:E:178:PHE:HE2	1.83	0.44
1:E:447:GLU:OE1	1:E:447:GLU:HA	2.17	0.44
1:E:813:ILE:HG22	1:E:815:VAL:HG13	2.00	0.44
1:E:1225:VAL:HG11	1:E:1229:PHE:CE2	2.53	0.44
1:G:136:ILE:HD13	1:G:152:ILE:HD13	1.99	0.44
1:G:140:LEU:HD11	1:G:178:PHE:HE2	1.83	0.44
1:G:194:GLY:HA2	1:G:197:MET:HE2	1.99	0.44
1:G:390:GLN:HB3	1:G:393:VAL:CG1	2.47	0.44
1:G:529:TYR:O	1:G:529:TYR:CD1	2.70	0.44
1:G:581:LYS:HD2	1:G:581:LYS:HA	1.68	0.44
1:G:845:TYR:HB3	1:G:858:ALA:HB3	1.98	0.44
1:G:884:TRP:CE3	1:G:884:TRP:O	2.71	0.44
1:G:1225:VAL:HG11	1:G:1229:PHE:CE2	2.53	0.44
1:I:910:GLU:HG2	1:I:912:LYS:H	1.82	0.44
1:I:1175:THR:HG1	1:I:1176:HIS:CE1	2.34	0.44
1:K:194:GLY:HA2	1:K:197:MET:HE2	1.99	0.44
1:K:337:ARG:HD3	1:K:341:TYR:CE2	2.52	0.44
1:K:556:GLY:O	1:K:557:ARG:O	2.35	0.44
1:K:588:VAL:HG11	1:K:1248:GLU:C	2.42	0.44
1:M:741:GLY:HA3	1:M:770:TRP:CZ2	2.53	0.44
1:M:883:SER:OG	1:M:902:ASP:N	2.50	0.44
1:M:884:TRP:CE3	1:M:884:TRP:O	2.71	0.44
1:M:1175:THR:HG1	1:M:1176:HIS:CE1	2.35	0.44
1:A:132:LEU:HD23	1:A:132:LEU:HA	1.76	0.44
1:A:190:GLN:OE1	1:A:190:GLN:HA	2.16	0.44
1:A:337:ARG:HD3	1:A:341:TYR:CE2	2.52	0.44
1:A:645:GLU:C	1:A:647:GLY:H	2.23	0.44
1:A:1048:LYS:HD3	1:A:1063:PHE:CZ	2.52	0.44
1:A:1175:THR:O	1:A:1176:HIS:CG	2.70	0.44
1:C:394:LYS:CB	1:C:434:ARG:CB	2.80	0.44
1:C:642:PHE:HE2	1:C:644:ALA:HA	1.83	0.44
1:C:885:VAL:HG23	1:C:887:GLY:N	2.33	0.44
1:C:1025:ALA:CB	1:C:1044:GLN:O	2.65	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1182:ASP:HB3	1:C:1223:ILE:HG23	1.98	0.44
1:C:1213:PHE:HD2	1:C:1214:TYR:H	1.63	0.44
1:E:171:HIS:CD2	1:E:171:HIS:O	2.70	0.44
1:E:194:GLY:HA2	1:E:197:MET:HE2	1.99	0.44
1:E:295:LEU:HD22	1:E:295:LEU:HA	1.75	0.44
1:E:530:ARG:HG2	1:E:538:CYS:SG	2.58	0.44
1:E:642:PHE:HE2	1:E:644:ALA:HA	1.83	0.44
1:E:681:VAL:O	1:E:694:THR:HA	2.17	0.44
1:E:883:SER:OG	1:E:902:ASP:N	2.50	0.44
1:E:1175:THR:O	1:E:1176:HIS:CG	2.71	0.44
1:G:146:GLU:O	1:G:147:PRO:C	2.60	0.44
1:G:171:HIS:CD2	1:G:171:HIS:O	2.70	0.44
1:G:239:LEU:HD12	1:G:240:LEU:H	1.77	0.44
1:G:246:TRP:HH2	1:G:370:ILE:HG22	1.82	0.44
1:G:530:ARG:HG2	1:G:538:CYS:SG	2.58	0.44
1:G:641:VAL:HB	1:G:651:LEU:HB2	1.97	0.44
1:G:816:ALA:HB2	1:G:821:ILE:HG12	1.99	0.44
1:G:1063:PHE:HA	1:G:1087:THR:HG22	1.99	0.44
1:G:1175:THR:HG1	1:G:1176:HIS:CE1	2.35	0.44
1:G:1175:THR:O	1:G:1176:HIS:CG	2.71	0.44
1:G:1176:HIS:CB	1:G:1218:THR:CG2	2.96	0.44
1:I:149:TRP:HZ2	1:I:255:ASP:HA	1.81	0.44
1:I:190:GLN:OE1	1:I:190:GLN:HA	2.16	0.44
1:I:194:GLY:HA2	1:I:197:MET:HE2	1.99	0.44
1:I:359:TYR:HE1	1:I:361:TYR:CD1	2.32	0.44
1:I:573:THR:HA	1:I:577:TYR:CD2	2.47	0.44
1:I:603:ILE:CB	1:I:1240:ILE:HG21	2.47	0.44
1:I:813:ILE:HG22	1:I:815:VAL:HG13	2.00	0.44
1:I:1022:SER:OG	1:I:1023:ASP:N	2.48	0.44
1:I:1063:PHE:HA	1:I:1087:THR:HG22	1.99	0.44
1:I:1176:HIS:CB	1:I:1218:THR:CG2	2.96	0.44
1:K:317:CYS:C	1:K:318:LYS:CG	2.85	0.44
1:K:558:GLN:C	1:K:560:PHE:N	2.75	0.44
1:K:813:ILE:HG22	1:K:815:VAL:HG13	2.00	0.44
1:K:845:TYR:CG	1:K:846:CYS:N	2.85	0.44
1:K:845:TYR:HB3	1:K:858:ALA:HB3	1.98	0.44
1:M:588:VAL:HG11	1:M:1248:GLU:C	2.42	0.44
1:M:922:LEU:HD12	1:M:1241:LEU:CD2	2.39	0.44
1:M:999:ARG:CG	1:M:1030:TRP:CD2	3.00	0.44
1:M:1226:SER:CB	1:M:1227:PRO:HD2	2.47	0.44
1:A:140:LEU:HD11	1:A:178:PHE:HE2	1.83	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:741:GLY:HA3	1:A:770:TRP:CZ2	2.53	0.44
1:A:1044:GLN:HG2	1:A:1068:LYS:HZ2	1.82	0.44
1:A:1181:THR:HG21	1:A:1221:LYS:CA	2.39	0.44
1:A:1198:TYR:HB2	1:A:1215:THR:H	1.82	0.44
1:C:136:ILE:HD13	1:C:152:ILE:HD13	1.99	0.44
1:C:139:LYS:HD2	1:C:278:TYR:CB	2.48	0.44
1:C:416:GLN:HE21	1:C:416:GLN:C	2.25	0.44
1:C:681:VAL:O	1:C:694:THR:HA	2.17	0.44
1:C:766:THR:HG22	1:C:782:ASN:HA	2.00	0.44
1:C:1011:PHE:HE1	1:C:1018:LEU:HD13	1.82	0.44
1:E:364:LEU:CD1	1:E:364:LEU:C	2.90	0.44
1:E:529:TYR:O	1:E:529:TYR:CD1	2.70	0.44
1:E:766:THR:HG22	1:E:782:ASN:HA	2.00	0.44
1:E:1176:HIS:HB2	1:E:1218:THR:CB	2.38	0.44
1:G:244:ASP:HB3	1:G:245:VAL:H	1.51	0.44
1:G:259:GLN:H	1:G:259:GLN:HG2	1.56	0.44
1:G:447:GLU:OE1	1:G:447:GLU:HA	2.17	0.44
1:G:460:ILE:HD13	1:G:490:HIS:CD2	2.52	0.44
1:G:673:ALA:H	1:G:707:PHE:HE2	1.65	0.44
1:G:813:ILE:HG22	1:G:815:VAL:HG13	2.00	0.44
1:I:140:LEU:HD11	1:I:178:PHE:HE2	1.83	0.44
1:I:294:ILE:HG22	1:I:295:LEU:N	2.32	0.44
1:I:884:TRP:CE3	1:I:884:TRP:O	2.71	0.44
1:I:1175:THR:O	1:I:1176:HIS:CG	2.71	0.44
1:I:1213:PHE:HD2	1:I:1214:TYR:H	1.63	0.44
1:I:1220:LEU:CB	1:I:1236:ASP:HB3	2.48	0.44
1:K:618:VAL:HA	1:K:634:GLY:HA2	2.00	0.44
1:K:835:ILE:HG12	1:K:869:THR:HA	1.99	0.44
1:K:845:TYR:OH	1:K:888:VAL:O	2.25	0.44
1:K:1011:PHE:HE1	1:K:1018:LEU:HD13	1.82	0.44
1:K:1208:GLU:HG3	1:K:1211:GLN:NE2	2.31	0.44
1:K:1232:TYR:O	1:K:1244:LEU:HD23	2.17	0.44
1:M:513:LYS:O	1:M:517:VAL:CB	2.62	0.44
1:M:885:VAL:HG23	1:M:887:GLY:N	2.33	0.44
1:M:920:VAL:CG1	1:M:921:MET:H	2.23	0.44
1:M:1181:THR:HG21	1:M:1221:LYS:CA	2.39	0.44
1:M:1213:PHE:HD2	1:M:1214:TYR:H	1.63	0.44
1:A:231:MET:HG2	1:A:258:CYS:HB2	1.98	0.44
1:A:251:LEU:HD22	1:A:260:ILE:HD11	1.99	0.44
1:A:445:LEU:O	1:A:449:ASN:N	2.48	0.44
1:A:529:TYR:O	1:A:529:TYR:CD1	2.70	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:885:VAL:HG23	1:A:887:GLY:N	2.33	0.44
1:A:910:GLU:HG2	1:A:912:LYS:H	1.83	0.44
1:C:529:TYR:O	1:C:529:TYR:CD1	2.70	0.44
1:C:530:ARG:HG2	1:C:538:CYS:SG	2.58	0.44
1:C:999:ARG:CG	1:C:1030:TRP:CD2	3.00	0.44
1:C:1225:VAL:HG11	1:C:1229:PHE:CE2	2.53	0.44
1:E:416:GLN:HE21	1:E:416:GLN:C	2.25	0.44
1:E:999:ARG:CG	1:E:1030:TRP:CD2	3.00	0.44
1:G:139:LYS:HD2	1:G:278:TYR:CB	2.48	0.44
1:G:573:THR:HA	1:G:577:TYR:CD2	2.47	0.44
1:G:597:TRP:CD1	1:G:1243:ILE:N	2.85	0.44
1:G:835:ILE:HG12	1:G:869:THR:HA	1.99	0.44
1:G:885:VAL:HG23	1:G:887:GLY:N	2.33	0.44
1:G:1220:LEU:CB	1:G:1236:ASP:HB3	2.48	0.44
1:I:197:MET:HE3	1:I:197:MET:HB2	1.76	0.44
1:I:364:LEU:HD22	1:I:364:LEU:HA	1.82	0.44
1:I:453:LEU:CD1	1:I:454:GLN:N	2.73	0.44
1:I:1032:TRP:O	1:I:1034:LEU:N	2.49	0.44
1:I:1167:PRO:HB3	1:I:1202:TRP:CG	2.45	0.44
1:I:1181:THR:HG21	1:I:1221:LYS:CA	2.39	0.44
1:I:1225:VAL:HG11	1:I:1229:PHE:CE2	2.53	0.44
1:K:741:GLY:HA3	1:K:770:TRP:CZ2	2.53	0.44
1:K:882:LEU:CB	1:K:1237:ASN:ND2	2.62	0.44
1:K:1175:THR:O	1:K:1176:HIS:CD2	2.71	0.44
1:K:1244:LEU:HD12	1:K:1244:LEU:C	2.42	0.44
1:M:140:LEU:HD11	1:M:178:PHE:HE2	1.83	0.44
1:M:174:LEU:C	1:M:174:LEU:CD2	2.85	0.44
1:M:529:TYR:O	1:M:529:TYR:CD1	2.70	0.44
1:M:530:ARG:HG2	1:M:538:CYS:SG	2.58	0.44
1:M:928:VAL:HG12	1:M:937:VAL:CB	2.46	0.44
1:M:1175:THR:OG1	1:M:1176:HIS:CE1	2.70	0.44
1:A:244:ASP:HB3	1:A:245:VAL:H	1.51	0.44
1:A:639:LEU:CG	1:A:653:ILE:HD12	2.43	0.44
1:A:642:PHE:HE2	1:A:644:ALA:HA	1.83	0.44
1:A:923:LYS:CG	1:A:940:VAL:CG2	2.96	0.44
1:C:146:GLU:O	1:C:147:PRO:C	2.60	0.44
1:C:194:GLY:HA2	1:C:197:MET:HE2	1.99	0.44
1:C:741:GLY:HA3	1:C:770:TRP:CZ2	2.53	0.44
1:E:146:GLU:O	1:E:147:PRO:C	2.60	0.44
1:E:147:PRO:HG3	1:G:121:GLN:HE22	1.79	0.44
1:E:420:ASN:C	1:E:422:SER:N	2.74	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:457:HIS:CD2	1:E:493:SER:OG	2.69	0.44
1:E:884:TRP:CE3	1:E:884:TRP:O	2.71	0.44
1:E:1220:LEU:CB	1:E:1236:ASP:HB3	2.48	0.44
1:G:174:LEU:C	1:G:174:LEU:CD2	2.86	0.44
1:G:403:LEU:HD11	1:G:459:LYS:HZ2	1.82	0.44
1:G:642:PHE:HE2	1:G:644:ALA:HA	1.83	0.44
1:G:845:TYR:CG	1:G:846:CYS:N	2.85	0.44
1:G:862:TYR:O	1:G:862:TYR:CG	2.70	0.44
1:G:877:ASP:OD1	1:G:878:CYS:N	2.50	0.44
1:G:1198:TYR:HB2	1:G:1215:THR:HG23	2.00	0.44
1:G:1216:ASN:CB	1:G:1242:TYR:OH	2.65	0.44
1:G:1226:SER:CB	1:G:1227:PRO:HD2	2.47	0.44
1:I:261:LEU:C	1:I:261:LEU:CD1	2.85	0.44
1:I:530:ARG:HG2	1:I:538:CYS:SG	2.58	0.44
1:I:685:ASN:OD1	1:I:686:SER:N	2.51	0.44
1:I:845:TYR:HB3	1:I:858:ALA:HB3	1.98	0.44
1:I:862:TYR:HD1	1:I:885:VAL:CB	2.22	0.44
1:I:1175:THR:O	1:I:1176:HIS:CD2	2.71	0.44
1:I:1244:LEU:HD12	1:I:1244:LEU:C	2.42	0.44
1:K:573:THR:HA	1:K:577:TYR:CD2	2.47	0.44
1:K:885:VAL:HG23	1:K:887:GLY:N	2.33	0.44
1:K:1175:THR:O	1:K:1176:HIS:CG	2.70	0.44
1:K:1175:THR:OG1	1:K:1176:HIS:CE1	2.70	0.44
1:K:1226:SER:CB	1:K:1227:PRO:HD2	2.47	0.44
1:M:194:GLY:HA2	1:M:197:MET:HE2	1.99	0.44
1:M:337:ARG:HD3	1:M:341:TYR:CE2	2.52	0.44
1:M:473:LEU:CD1	1:M:480:CYS:HB3	2.47	0.44
1:M:877:ASP:OD1	1:M:878:CYS:N	2.50	0.44
1:M:1011:PHE:HE1	1:M:1018:LEU:HD13	1.82	0.44
1:M:1216:ASN:CB	1:M:1242:TYR:OH	2.65	0.44
1:A:212:PHE:CB	1:A:226:ARG:NH1	2.57	0.44
1:A:294:ILE:HG22	1:A:295:LEU:N	2.32	0.44
1:A:360:ASP:O	1:A:361:TYR:CD1	2.71	0.44
1:A:496:MET:HE3	1:A:496:MET:CA	2.31	0.44
1:A:557:ARG:CG	1:A:558:GLN:N	2.79	0.44
1:A:884:TRP:CE3	1:A:884:TRP:O	2.71	0.44
1:A:1198:TYR:HB2	1:A:1215:THR:HG23	2.00	0.44
1:A:1200:LYS:CE	1:A:1211:GLN:CB	2.95	0.44
1:A:1232:TYR:O	1:A:1244:LEU:HD23	2.17	0.44
1:A:1235:VAL:HA	1:A:1240:ILE:O	2.18	0.44
1:C:251:LEU:HD11	1:C:262:LEU:HD13	1.99	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:306:LEU:HA	1:C:307:PRO:HD3	1.76	0.44
1:C:813:ILE:HG22	1:C:815:VAL:HG13	2.00	0.44
1:C:1175:THR:O	1:C:1176:HIS:CD2	2.71	0.44
1:C:1220:LEU:CB	1:C:1236:ASP:HB3	2.48	0.44
1:E:866:LEU:HG	1:E:875:VAL:HB	1.98	0.44
1:E:885:VAL:HG23	1:E:887:GLY:N	2.33	0.44
1:E:1198:TYR:HB2	1:E:1215:THR:H	1.82	0.44
1:G:294:ILE:HG22	1:G:295:LEU:N	2.32	0.44
1:G:659:GLU:O	1:G:659:GLU:HG3	2.18	0.44
1:G:766:THR:HG22	1:G:782:ASN:HA	2.00	0.44
1:G:923:LYS:CG	1:G:940:VAL:CG2	2.96	0.44
2:H:16:GLN:OE1	2:H:16:GLN:N	2.47	0.44
1:I:251:LEU:HD22	1:I:260:ILE:HD11	1.99	0.44
1:I:766:THR:HG22	1:I:782:ASN:HA	2.00	0.44
1:I:1048:LYS:HD3	1:I:1063:PHE:CZ	2.52	0.44
1:I:1160:GLU:O	1:I:1162:LEU:N	2.49	0.44
1:I:1198:TYR:HB2	1:I:1215:THR:H	1.82	0.44
1:K:136:ILE:HD13	1:K:152:ILE:HD13	1.99	0.44
1:K:149:TRP:HZ2	1:K:255:ASP:HA	1.81	0.44
1:K:242:LEU:HD12	1:K:242:LEU:N	2.26	0.44
1:K:500:LEU:HD11	1:K:504:MET:SD	2.57	0.44
1:K:1025:ALA:CB	1:K:1044:GLN:O	2.65	0.44
1:M:457:HIS:CD2	1:M:493:SER:OG	2.69	0.44
1:M:1032:TRP:O	1:M:1034:LEU:N	2.49	0.44
1:M:1175:THR:O	1:M:1176:HIS:CD2	2.71	0.44
1:A:261:LEU:HD12	1:A:261:LEU:O	2.18	0.44
1:A:530:ARG:HG2	1:A:538:CYS:SG	2.58	0.44
1:A:845:TYR:CG	1:A:846:CYS:N	2.85	0.44
1:A:1216:ASN:CB	1:A:1242:TYR:OH	2.65	0.44
1:C:140:LEU:HD11	1:C:178:PHE:HE2	1.83	0.44
1:C:685:ASN:OD1	1:C:686:SER:N	2.51	0.44
1:C:866:LEU:CD2	1:C:914:VAL:HB	2.43	0.44
1:C:923:LYS:CG	1:C:940:VAL:CG2	2.96	0.44
1:C:1080:ASP:O	1:C:1081:PHE:HD1	2.01	0.44
1:C:1187:PRO:HG3	1:C:1229:PHE:HB2	1.98	0.44
1:C:1187:PRO:CD	1:C:1229:PHE:CG	3.01	0.44
1:E:557:ARG:HA	1:E:557:ARG:HD3	1.87	0.44
1:E:581:LYS:HA	1:E:581:LYS:HD2	1.68	0.44
1:E:805:SER:HB2	1:E:814:MET:HB3	2.00	0.44
1:E:1007:TRP:HZ3	1:E:1048:LYS:HA	1.83	0.44
1:E:1176:HIS:CB	1:E:1218:THR:CG2	2.96	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1187:PRO:CD	1:E:1229:PHE:CG	3.01	0.44
1:G:155:MET:HE2	1:G:155:MET:HB2	1.69	0.44
1:G:429:ASN:HD22	1:G:429:ASN:HA	1.66	0.44
1:G:553:HIS:CB	1:G:610:VAL:CG1	2.89	0.44
1:G:1065:GLY:HA3	1:G:1086:GLY:O	2.18	0.44
1:G:1091:CYS:SG	1:G:1103:THR:HB	2.58	0.44
1:G:1166:ALA:N	1:G:1167:PRO:CD	2.78	0.44
1:G:1175:THR:O	1:G:1176:HIS:CD2	2.71	0.44
1:G:1213:PHE:HD2	1:G:1214:TYR:H	1.63	0.44
1:G:1220:LEU:CD1	1:G:1220:LEU:N	2.53	0.44
1:I:256:SER:O	1:I:257:GLN:CB	2.65	0.44
1:I:547:PHE:O	1:I:551:ASN:ND2	2.50	0.44
1:I:557:ARG:CG	1:I:558:GLN:N	2.79	0.44
1:I:564:VAL:HG13	1:I:583:GLN:CG	2.43	0.44
1:I:659:GLU:O	1:I:659:GLU:HG3	2.18	0.44
1:I:1011:PHE:HE1	1:I:1018:LEU:HD13	1.82	0.44
1:I:1025:ALA:CB	1:I:1044:GLN:O	2.65	0.44
1:I:1216:ASN:CB	1:I:1242:TYR:OH	2.65	0.44
1:I:1232:TYR:O	1:I:1244:LEU:HD23	2.17	0.44
1:K:140:LEU:HD11	1:K:178:PHE:HE2	1.83	0.44
1:K:197:MET:HE3	1:K:197:MET:HB2	1.76	0.44
1:K:530:ARG:HG2	1:K:538:CYS:SG	2.58	0.44
1:K:639:LEU:CG	1:K:653:ILE:HD12	2.43	0.44
1:K:999:ARG:CG	1:K:1030:TRP:CD2	3.00	0.44
1:K:1220:LEU:CB	1:K:1236:ASP:HB3	2.48	0.44
1:M:136:ILE:HD13	1:M:152:ILE:HD13	1.99	0.44
1:M:360:ASP:O	1:M:361:TYR:CD1	2.71	0.44
1:M:554:LEU:HD13	1:M:554:LEU:C	2.43	0.44
1:M:669:ASP:O	1:M:686:SER:OG	2.27	0.44
1:M:947:GLN:HB3	1:M:956:ILE:HG23	2.00	0.44
1:M:1091:CYS:SG	1:M:1103:THR:HB	2.58	0.44
1:M:1149:GLY:H	1:M:1180:VAL:CG2	2.31	0.44
1:M:1235:VAL:HA	1:M:1240:ILE:O	2.18	0.44
1:A:194:GLY:HA2	1:A:197:MET:HE2	1.99	0.44
1:A:318:LYS:HD3	1:A:439:ASP:HB2	1.98	0.44
1:A:947:GLN:HB3	1:A:956:ILE:HG23	2.00	0.44
1:A:1149:GLY:H	1:A:1180:VAL:CG2	2.31	0.44
1:A:1213:PHE:O	1:A:1214:TYR:CB	2.49	0.44
1:C:149:TRP:CH2	1:C:273:VAL:CG1	2.98	0.44
1:C:261:LEU:HD12	1:C:261:LEU:O	2.18	0.44
1:C:360:ASP:O	1:C:361:TYR:CD1	2.71	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:920:VAL:C	1:C:921:MET:CG	2.85	0.44
1:C:1091:CYS:SG	1:C:1103:THR:HB	2.58	0.44
1:E:409:GLU:HG3	1:G:340:TYR:HH	1.76	0.44
1:E:558:GLN:C	1:E:560:PHE:N	2.75	0.44
1:E:1200:LYS:HA	1:E:1211:GLN:O	2.18	0.44
1:G:246:TRP:O	1:G:247:ASP:CG	2.61	0.44
1:G:547:PHE:O	1:G:551:ASN:ND2	2.50	0.44
1:G:556:GLY:O	1:G:557:ARG:O	2.35	0.44
1:G:610:VAL:HG22	1:G:907:ARG:CG	2.43	0.44
1:G:622:CYS:SG	1:G:664:ALA:HA	2.58	0.44
1:G:805:SER:HB2	1:G:814:MET:HB3	2.00	0.44
1:G:922:LEU:CD1	1:G:1241:LEU:CD2	2.87	0.44
1:G:1187:PRO:HG3	1:G:1229:PHE:HB2	1.98	0.44
1:I:136:ILE:HD13	1:I:152:ILE:HD13	1.99	0.44
1:I:359:TYR:CD1	1:I:359:TYR:C	2.86	0.44
1:I:364:LEU:CD1	1:I:364:LEU:C	2.90	0.44
1:I:556:GLY:O	1:I:557:ARG:O	2.35	0.44
1:I:741:GLY:HA3	1:I:770:TRP:CZ2	2.53	0.44
1:I:862:TYR:CZ	1:I:881:HIS:CA	2.96	0.44
1:I:877:ASP:OD1	1:I:878:CYS:N	2.50	0.44
1:I:885:VAL:HG23	1:I:887:GLY:N	2.33	0.44
1:I:1046:THR:HG22	1:I:1063:PHE:CD2	2.52	0.44
1:I:1081:PHE:HE1	1:I:1117:LEU:HA	1.83	0.44
1:I:1226:SER:CB	1:I:1227:PRO:HD2	2.47	0.44
1:K:246:TRP:O	1:K:247:ASP:CG	2.61	0.44
1:K:248:SER:O	1:K:249:TRP:C	2.57	0.44
1:K:685:ASN:OD1	1:K:686:SER:N	2.51	0.44
1:K:877:ASP:OD1	1:K:878:CYS:N	2.50	0.44
1:K:1046:THR:HG22	1:K:1063:PHE:CD2	2.53	0.44
1:K:1176:HIS:CB	1:K:1218:THR:CG2	2.96	0.44
1:K:1233:VAL:HB	1:K:1243:ILE:HA	2.00	0.44
1:M:137:GLN:HG3	1:M:173:LEU:HD22	1.95	0.44
1:M:197:MET:HE3	1:M:197:MET:HB2	1.76	0.44
1:M:318:LYS:HD3	1:M:439:ASP:HB2	1.99	0.44
1:M:322:LEU:C	1:M:322:LEU:CD2	2.91	0.44
1:M:500:LEU:HD11	1:M:504:MET:SD	2.57	0.44
1:M:641:VAL:HB	1:M:651:LEU:HB2	1.97	0.44
1:A:139:LYS:HD2	1:A:278:TYR:CB	2.48	0.43
1:A:174:LEU:C	1:A:174:LEU:CD2	2.86	0.43
1:A:363:ALA:O	1:A:366:GLU:N	2.51	0.43
1:A:1091:CYS:SG	1:A:1103:THR:HB	2.58	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:622:CYS:SG	1:C:664:ALA:HA	2.58	0.43
1:C:750:ARG:HH11	1:C:806:TRP:HD1	1.66	0.43
1:C:805:SER:HB2	1:C:814:MET:HB3	2.00	0.43
1:C:816:ALA:HB2	1:C:821:ILE:HG12	1.99	0.43
1:C:947:GLN:HB3	1:C:956:ILE:HG23	2.00	0.43
1:C:1216:ASN:CB	1:C:1242:TYR:OH	2.65	0.43
2:D:14:CYS:CB	5:D:201:HEM:HAB	2.43	0.43
1:E:246:TRP:HH2	1:E:370:ILE:HG22	1.82	0.43
1:E:256:SER:O	1:E:257:GLN:CB	2.65	0.43
1:E:294:ILE:HG22	1:E:295:LEU:N	2.32	0.43
1:E:393:VAL:CG1	1:E:486:PHE:CE2	3.01	0.43
1:E:560:PHE:HA	1:E:561:PRO:HD2	1.73	0.43
1:E:685:ASN:OD1	1:E:686:SER:N	2.51	0.43
1:E:741:GLY:HA3	1:E:770:TRP:CZ2	2.53	0.43
1:E:862:TYR:CE2	1:E:881:HIS:CA	3.01	0.43
1:E:1063:PHE:HA	1:E:1087:THR:HG22	1.99	0.43
1:E:1149:GLY:H	1:E:1180:VAL:CG2	2.31	0.43
1:E:1244:LEU:C	1:E:1244:LEU:HD12	2.42	0.43
1:G:171:HIS:HD2	1:G:171:HIS:O	2.01	0.43
1:G:473:LEU:CD1	1:G:480:CYS:HB3	2.47	0.43
1:G:560:PHE:HA	1:G:561:PRO:HD2	1.73	0.43
1:G:618:VAL:HA	1:G:634:GLY:HA2	2.00	0.43
1:G:685:ASN:OD1	1:G:686:SER:N	2.51	0.43
1:G:910:GLU:HG2	1:G:912:LYS:H	1.83	0.43
1:G:1187:PRO:CD	1:G:1229:PHE:CG	3.01	0.43
1:I:171:HIS:HD2	1:I:171:HIS:O	2.01	0.43
1:I:434:ARG:CG	1:I:434:ARG:HH21	2.30	0.43
1:I:500:LEU:HD11	1:I:504:MET:SD	2.57	0.43
1:I:642:PHE:HE2	1:I:644:ALA:HA	1.83	0.43
1:I:681:VAL:O	1:I:694:THR:HA	2.17	0.43
1:I:703:ASN:HD22	1:I:746:VAL:HB	1.83	0.43
1:I:923:LYS:CG	1:I:940:VAL:CG2	2.96	0.43
1:I:1091:CYS:SG	1:I:1103:THR:HB	2.58	0.43
1:I:1139:SER:OG	1:I:1140:THR:N	2.51	0.43
1:I:1175:THR:OG1	1:I:1176:HIS:CE1	2.70	0.43
1:K:132:LEU:HA	1:K:132:LEU:HD23	1.76	0.43
1:K:318:LYS:HD3	1:K:439:ASP:HB2	1.98	0.43
1:K:420:ASN:C	1:K:422:SER:N	2.74	0.43
1:K:866:LEU:HD22	1:K:914:VAL:HG12	1.98	0.43
1:K:1081:PHE:HE1	1:K:1117:LEU:HA	1.83	0.43
1:K:1216:ASN:CB	1:K:1242:TYR:OH	2.65	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:139:LYS:HD2	1:M:278:TYR:CB	2.48	0.43
1:M:460:ILE:HD13	1:M:490:HIS:CD2	2.52	0.43
1:M:618:VAL:HA	1:M:634:GLY:HA2	2.00	0.43
1:M:642:PHE:HE2	1:M:644:ALA:HA	1.83	0.43
1:M:813:ILE:HG22	1:M:815:VAL:HG13	2.00	0.43
1:M:845:TYR:CG	1:M:846:CYS:N	2.85	0.43
1:M:1198:TYR:HB2	1:M:1215:THR:HG23	2.00	0.43
1:M:1200:LYS:HA	1:M:1211:GLN:O	2.18	0.43
1:M:1232:TYR:O	1:M:1244:LEU:HD23	2.17	0.43
1:M:1244:LEU:HD12	1:M:1244:LEU:C	2.42	0.43
1:A:685:ASN:OD1	1:A:686:SER:N	2.51	0.43
1:A:1168:LEU:HD11	1:A:1171:GLU:HB3	2.00	0.43
1:A:1187:PRO:CD	1:A:1229:PHE:CG	3.01	0.43
1:C:547:PHE:O	1:C:551:ASN:ND2	2.50	0.43
1:C:558:GLN:C	1:C:560:PHE:N	2.75	0.43
1:C:703:ASN:HD22	1:C:746:VAL:HB	1.84	0.43
1:C:862:TYR:CE2	1:C:881:HIS:CA	3.01	0.43
1:C:1046:THR:HG22	1:C:1063:PHE:CD2	2.53	0.43
1:C:1198:TYR:HB2	1:C:1215:THR:H	1.82	0.43
1:E:553:HIS:CB	1:E:610:VAL:CG1	2.89	0.43
1:E:556:GLY:O	1:E:557:ARG:O	2.35	0.43
1:E:573:THR:HA	1:E:577:TYR:CD2	2.47	0.43
1:E:588:VAL:HG11	1:E:1248:GLU:C	2.42	0.43
1:E:597:TRP:CH2	1:E:603:ILE:HG12	2.43	0.43
1:E:600:LYS:HG2	1:E:601:LYS:N	2.34	0.43
1:E:659:GLU:O	1:E:659:GLU:HG3	2.18	0.43
1:E:816:ALA:HB2	1:E:821:ILE:HG12	1.99	0.43
1:E:866:LEU:CD2	1:E:914:VAL:HB	2.43	0.43
1:E:947:GLN:HB3	1:E:956:ILE:HG23	2.00	0.43
1:E:1175:THR:O	1:E:1176:HIS:CD2	2.71	0.43
1:G:149:TRP:HZ2	1:G:255:ASP:HA	1.81	0.43
1:G:845:TYR:HD2	1:G:858:ALA:HB3	1.84	0.43
1:G:1200:LYS:HA	1:G:1211:GLN:O	2.18	0.43
1:G:1232:TYR:O	1:G:1244:LEU:HD23	2.17	0.43
1:I:485:ASN:CB	1:I:486:PHE:CD1	3.02	0.43
1:I:597:TRP:CD1	1:I:1243:ILE:N	2.85	0.43
1:I:1065:GLY:HA3	1:I:1086:GLY:O	2.18	0.43
1:I:1080:ASP:O	1:I:1081:PHE:HD1	2.01	0.43
1:I:1245:GLN:HE21	1:I:1245:GLN:HB3	1.59	0.43
1:K:139:LYS:HD2	1:K:278:TYR:CB	2.48	0.43
1:K:261:LEU:HD12	1:K:261:LEU:O	2.18	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:460:ILE:HD13	1:K:490:HIS:CD2	2.52	0.43
1:K:597:TRP:CD1	1:K:1243:ILE:N	2.85	0.43
1:K:642:PHE:HE2	1:K:644:ALA:HA	1.83	0.43
1:K:884:TRP:CE3	1:K:884:TRP:O	2.71	0.43
1:K:1080:ASP:O	1:K:1081:PHE:HD1	2.01	0.43
1:K:1149:GLY:H	1:K:1180:VAL:CG2	2.31	0.43
1:K:1176:HIS:CB	1:K:1218:THR:HG21	2.42	0.43
1:K:1200:LYS:HA	1:K:1211:GLN:O	2.18	0.43
1:M:330:LEU:HD12	1:M:330:LEU:HA	1.74	0.43
1:M:416:GLN:HE21	1:M:416:GLN:C	2.25	0.43
1:M:1046:THR:HG22	1:M:1063:PHE:CD2	2.52	0.43
1:A:149:TRP:CH2	1:A:273:VAL:CG1	2.98	0.43
1:A:766:THR:HG22	1:A:782:ASN:HA	2.00	0.43
1:A:1176:HIS:CB	1:A:1218:THR:CG2	2.96	0.43
1:A:1244:LEU:HD12	1:A:1244:LEU:C	2.42	0.43
1:C:171:HIS:HD2	1:C:171:HIS:O	2.01	0.43
1:C:393:VAL:CG1	1:C:486:PHE:CE2	3.01	0.43
1:C:554:LEU:HD13	1:C:554:LEU:C	2.43	0.43
1:C:845:TYR:CG	1:C:846:CYS:N	2.85	0.43
1:C:910:GLU:HG2	1:C:912:LYS:H	1.83	0.43
1:C:1149:GLY:H	1:C:1180:VAL:CG2	2.31	0.43
1:C:1176:HIS:CB	1:C:1218:THR:CG2	2.96	0.43
1:E:139:LYS:HD2	1:E:278:TYR:CB	2.48	0.43
1:E:363:ALA:O	1:E:366:GLU:N	2.51	0.43
1:E:845:TYR:HD2	1:E:858:ALA:HB3	1.83	0.43
1:E:1065:GLY:HA3	1:E:1086:GLY:O	2.18	0.43
1:E:1081:PHE:HE1	1:E:1117:LEU:HA	1.83	0.43
1:G:251:LEU:HD22	1:G:260:ILE:HD11	1.99	0.43
1:G:320:SER:O	1:G:320:SER:OG	2.36	0.43
1:G:347:ASN:O	1:G:348:LYS:HB2	2.19	0.43
1:G:485:ASN:CB	1:G:486:PHE:CD1	3.02	0.43
1:G:534:ASP:O	1:G:538:CYS:SG	2.68	0.43
1:G:600:LYS:HG2	1:G:601:LYS:N	2.34	0.43
1:G:703:ASN:HD22	1:G:746:VAL:HB	1.83	0.43
1:G:741:GLY:HA3	1:G:770:TRP:CZ2	2.53	0.43
1:G:1081:PHE:HE1	1:G:1117:LEU:HA	1.84	0.43
1:G:1201:TRP:CB	1:G:1210:SER:O	2.58	0.43
1:I:248:SER:O	1:I:249:TRP:C	2.57	0.43
1:I:641:VAL:HB	1:I:651:LEU:HB2	1.97	0.43
1:I:805:SER:HB2	1:I:814:MET:HB3	2.00	0.43
1:I:866:LEU:HD22	1:I:914:VAL:HG12	1.98	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:999:ARG:HD2	1:I:999:ARG:HA	1.73	0.43
1:K:251:LEU:HD22	1:K:260:ILE:HD11	1.99	0.43
1:K:364:LEU:CD1	1:K:364:LEU:C	2.90	0.43
1:K:485:ASN:CB	1:K:486:PHE:CD1	3.02	0.43
1:K:862:TYR:CE2	1:K:881:HIS:CA	3.01	0.43
1:K:947:GLN:HB3	1:K:956:ILE:HG23	2.00	0.43
1:K:1091:CYS:SG	1:K:1103:THR:HB	2.58	0.43
1:K:1175:THR:C	1:K:1176:HIS:CG	2.96	0.43
1:M:862:TYR:O	1:M:862:TYR:CG	2.70	0.43
1:M:1176:HIS:CB	1:M:1218:THR:HG21	2.42	0.43
1:M:1245:GLN:HE21	1:M:1245:GLN:HB3	1.59	0.43
1:A:750:ARG:HH11	1:A:806:TRP:HD1	1.67	0.43
1:A:999:ARG:CG	1:A:1030:TRP:CD2	3.00	0.43
1:C:237:ARG:HH11	1:C:237:ARG:HG2	1.84	0.43
1:C:364:LEU:CD1	1:C:364:LEU:C	2.90	0.43
1:C:945:ARG:HG3	1:C:964:VAL:HG13	2.01	0.43
1:C:1081:PHE:HE1	1:C:1117:LEU:HA	1.84	0.43
1:C:1235:VAL:HA	1:C:1240:ILE:O	2.18	0.43
1:E:155:MET:HE2	1:E:155:MET:HB2	1.69	0.43
1:E:529:TYR:C	1:E:529:TYR:CD1	2.95	0.43
1:E:750:ARG:HH11	1:E:806:TRP:HD1	1.67	0.43
1:E:845:TYR:CG	1:E:846:CYS:N	2.85	0.43
1:E:875:VAL:CG1	1:E:915:CYS:SG	2.94	0.43
1:E:945:ARG:HG3	1:E:964:VAL:HG13	2.01	0.43
1:E:1091:CYS:SG	1:E:1103:THR:HB	2.58	0.43
1:E:1181:THR:CG2	1:E:1221:LYS:HA	2.40	0.43
1:E:1216:ASN:CB	1:E:1242:TYR:OH	2.65	0.43
1:E:1235:VAL:HA	1:E:1240:ILE:O	2.18	0.43
1:G:363:ALA:O	1:G:366:GLU:N	2.51	0.43
1:G:500:LEU:HD11	1:G:504:MET:SD	2.57	0.43
1:G:543:ASN:CG	1:G:574:SER:HB2	2.38	0.43
1:G:564:VAL:HG13	1:G:583:GLN:CG	2.44	0.43
1:G:1208:GLU:CG	1:G:1211:GLN:HG2	2.49	0.43
1:I:246:TRP:O	1:I:247:ASP:CG	2.61	0.43
1:I:363:ALA:O	1:I:366:GLU:N	2.51	0.43
1:I:618:VAL:HA	1:I:634:GLY:HA2	2.00	0.43
1:I:750:ARG:HH11	1:I:806:TRP:HD1	1.67	0.43
1:K:237:ARG:HH11	1:K:237:ARG:HG2	1.83	0.43
1:K:659:GLU:O	1:K:659:GLU:HG3	2.18	0.43
1:K:766:THR:HG22	1:K:782:ASN:HA	2.00	0.43
1:M:246:TRP:O	1:M:247:ASP:CG	2.61	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:251:LEU:HD22	1:M:260:ILE:HD11	1.99	0.43
1:M:363:ALA:O	1:M:366:GLU:N	2.51	0.43
1:M:703:ASN:HD22	1:M:746:VAL:HB	1.84	0.43
1:M:1048:LYS:HD3	1:M:1063:PHE:CZ	2.52	0.43
1:M:1081:PHE:HE1	1:M:1117:LEU:HA	1.83	0.43
1:M:1168:LEU:HD11	1:M:1171:GLU:HB3	2.00	0.43
1:A:529:TYR:O	1:A:529:TYR:HD1	2.02	0.43
1:A:639:LEU:C	1:A:639:LEU:HD12	2.44	0.43
1:A:813:ILE:HG22	1:A:815:VAL:HG13	1.99	0.43
1:A:1081:PHE:HE1	1:A:1117:LEU:HA	1.84	0.43
1:A:1225:VAL:HG11	1:A:1229:PHE:CE2	2.53	0.43
1:C:363:ALA:O	1:C:366:GLU:N	2.51	0.43
1:C:420:ASN:C	1:C:422:SER:N	2.74	0.43
1:C:529:TYR:O	1:C:529:TYR:HD1	2.02	0.43
1:C:600:LYS:HG2	1:C:601:LYS:N	2.34	0.43
1:C:884:TRP:CE3	1:C:884:TRP:O	2.71	0.43
1:C:1067:VAL:HG11	1:C:1112:TRP:CZ2	2.54	0.43
1:C:1175:THR:C	1:C:1176:HIS:CG	2.96	0.43
1:E:212:PHE:CB	1:E:226:ARG:NH1	2.57	0.43
1:E:396:PRO:O	1:E:399:VAL:HG22	2.19	0.43
1:E:485:ASN:CB	1:E:486:PHE:CD1	3.02	0.43
1:E:543:ASN:CG	1:E:574:SER:HB2	2.38	0.43
1:E:1175:THR:OG1	1:E:1176:HIS:CE1	2.70	0.43
1:G:256:SER:O	1:G:257:GLN:CB	2.65	0.43
1:G:360:ASP:O	1:G:361:TYR:CD1	2.71	0.43
1:G:364:LEU:HD22	1:G:364:LEU:HA	1.82	0.43
1:G:529:TYR:C	1:G:529:TYR:CD1	2.95	0.43
1:G:862:TYR:CE2	1:G:881:HIS:CA	3.01	0.43
1:G:1046:THR:HG22	1:G:1063:PHE:CD2	2.52	0.43
1:G:1149:GLY:H	1:G:1180:VAL:CG2	2.31	0.43
1:G:1185:PHE:CE1	1:G:1192:LEU:HD12	2.39	0.43
1:I:529:TYR:O	1:I:529:TYR:HD1	2.02	0.43
1:I:600:LYS:HG2	1:I:601:LYS:N	2.34	0.43
1:I:1198:TYR:HB2	1:I:1215:THR:HG23	2.00	0.43
1:I:1233:VAL:HB	1:I:1243:ILE:HA	2.00	0.43
1:K:360:ASP:O	1:K:361:TYR:CD1	2.71	0.43
1:K:402:ILE:HG12	1:K:402:ILE:H	1.64	0.43
1:K:750:ARG:HH11	1:K:806:TRP:HD1	1.67	0.43
1:K:845:TYR:HD2	1:K:858:ALA:HB3	1.83	0.43
1:K:862:TYR:CG	1:K:862:TYR:O	2.70	0.43
1:K:945:ARG:HG3	1:K:964:VAL:HG13	2.01	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:1198:TYR:HB2	1:K:1215:THR:H	1.82	0.43
1:K:1225:VAL:HG11	1:K:1229:PHE:CE2	2.53	0.43
1:M:237:ARG:HH11	1:M:237:ARG:HG2	1.83	0.43
1:M:307:PRO:HD2	1:M:338:TRP:CH2	2.54	0.43
1:M:557:ARG:HA	1:M:557:ARG:HD3	1.87	0.43
1:M:862:TYR:CE2	1:M:881:HIS:CA	3.01	0.43
1:M:866:LEU:HD22	1:M:914:VAL:HG12	1.98	0.43
1:M:945:ARG:HG3	1:M:964:VAL:HG13	2.01	0.43
1:M:1175:THR:C	1:M:1176:HIS:CG	2.96	0.43
1:M:1233:VAL:HB	1:M:1243:ILE:HA	2.01	0.43
1:A:160:LYS:CB	1:A:160:LYS:HZ2	2.32	0.43
1:A:230:LEU:CD2	1:A:234:LYS:CG	2.85	0.43
1:A:557:ARG:HA	1:A:557:ARG:HD3	1.87	0.43
1:A:600:LYS:HG2	1:A:601:LYS:N	2.34	0.43
1:A:622:CYS:SG	1:A:664:ALA:HA	2.58	0.43
1:A:805:SER:HB2	1:A:814:MET:HB3	2.00	0.43
1:A:862:TYR:O	1:A:862:TYR:CG	2.70	0.43
1:A:945:ARG:HG3	1:A:964:VAL:HG13	2.01	0.43
1:A:1220:LEU:CB	1:A:1236:ASP:HB3	2.48	0.43
1:C:639:LEU:C	1:C:639:LEU:HD12	2.44	0.43
1:C:1168:LEU:HD11	1:C:1171:GLU:HB3	2.00	0.43
1:E:246:TRP:O	1:E:247:ASP:CG	2.61	0.43
1:E:307:PRO:HD2	1:E:338:TRP:CH2	2.54	0.43
1:E:703:ASN:HD22	1:E:746:VAL:HB	1.84	0.43
1:E:736:ARG:NH1	1:E:772:ALA:O	2.39	0.43
1:E:1067:VAL:HG11	1:E:1112:TRP:CZ2	2.54	0.43
1:E:1080:ASP:O	1:E:1081:PHE:HD1	2.01	0.43
1:G:750:ARG:HH11	1:G:806:TRP:HD1	1.67	0.43
1:I:149:TRP:CH2	1:I:273:VAL:CG1	2.98	0.43
1:I:208:GLN:H	1:I:208:GLN:HG3	1.48	0.43
1:I:212:PHE:CB	1:I:226:ARG:NH1	2.57	0.43
1:I:261:LEU:HD12	1:I:261:LEU:O	2.18	0.43
1:I:393:VAL:CG1	1:I:486:PHE:CE2	3.01	0.43
1:I:460:ILE:HD13	1:I:490:HIS:CD2	2.52	0.43
1:I:845:TYR:HD2	1:I:858:ALA:HB3	1.84	0.43
1:I:947:GLN:HB3	1:I:956:ILE:HG23	2.00	0.43
1:I:1007:TRP:HZ3	1:I:1048:LYS:HA	1.83	0.43
1:I:1149:GLY:H	1:I:1180:VAL:CG2	2.31	0.43
1:I:1200:LYS:HA	1:I:1211:GLN:O	2.18	0.43
1:K:294:ILE:HG22	1:K:295:LEU:N	2.32	0.43
1:K:554:LEU:HD13	1:K:554:LEU:C	2.43	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:703:ASN:HD22	1:K:746:VAL:HB	1.84	0.43
1:K:1048:LYS:HD3	1:K:1063:PHE:CZ	2.52	0.43
1:M:146:GLU:O	1:M:147:PRO:C	2.60	0.43
1:M:171:HIS:HD2	1:M:171:HIS:O	2.01	0.43
1:M:261:LEU:HD12	1:M:261:LEU:O	2.17	0.43
1:M:396:PRO:O	1:M:399:VAL:HG22	2.19	0.43
1:M:597:TRP:CD1	1:M:1243:ILE:N	2.85	0.43
1:M:639:LEU:HD12	1:M:639:LEU:C	2.44	0.43
1:M:685:ASN:OD1	1:M:686:SER:N	2.51	0.43
1:M:750:ARG:HH11	1:M:806:TRP:HD1	1.67	0.43
1:M:1065:GLY:HA3	1:M:1086:GLY:O	2.18	0.43
1:M:1176:HIS:CB	1:M:1218:THR:CG2	2.96	0.43
1:M:1220:LEU:CB	1:M:1236:ASP:HB3	2.48	0.43
1:M:1232:TYR:OH	1:M:1234:THR:CB	2.59	0.43
2:N:16:GLN:OE1	2:N:16:GLN:N	2.47	0.43
1:A:295:LEU:HD22	1:A:295:LEU:HA	1.75	0.43
1:A:347:ASN:O	1:A:348:LYS:HB2	2.19	0.43
1:A:393:VAL:CG1	1:A:486:PHE:CE2	3.01	0.43
1:A:429:ASN:HD22	1:A:429:ASN:HA	1.66	0.43
1:A:883:SER:O	1:A:884:TRP:O	2.37	0.43
1:A:999:ARG:HB2	1:A:1030:TRP:CE3	2.54	0.43
1:A:1007:TRP:HZ3	1:A:1048:LYS:HA	1.83	0.43
1:A:1046:THR:HG22	1:A:1063:PHE:CD2	2.53	0.43
1:C:246:TRP:O	1:C:247:ASP:CG	2.61	0.43
1:C:307:PRO:HD2	1:C:338:TRP:CH2	2.54	0.43
1:C:445:LEU:O	1:C:449:ASN:N	2.48	0.43
1:C:597:TRP:CH2	1:C:603:ILE:HG12	2.43	0.43
1:C:866:LEU:O	1:C:875:VAL:N	2.44	0.43
1:C:1208:GLU:CG	1:C:1211:GLN:HG2	2.49	0.43
1:E:195:LEU:HD12	1:E:195:LEU:C	2.36	0.43
1:E:529:TYR:O	1:E:529:TYR:HD1	2.02	0.43
1:E:622:CYS:SG	1:E:664:ALA:HA	2.58	0.43
1:E:910:GLU:HG2	1:E:912:LYS:H	1.83	0.43
1:G:947:GLN:HB3	1:G:956:ILE:HG23	2.00	0.43
1:G:1080:ASP:O	1:G:1081:PHE:HD1	2.01	0.43
1:G:1235:VAL:HA	1:G:1240:ILE:O	2.18	0.43
1:I:347:ASN:O	1:I:348:LYS:HB2	2.19	0.43
1:I:360:ASP:O	1:I:361:TYR:CD1	2.71	0.43
1:I:835:ILE:HG12	1:I:869:THR:HA	1.99	0.43
1:I:1181:THR:HG22	1:I:1182:ASP:N	2.34	0.43
1:K:363:ALA:O	1:K:366:GLU:N	2.51	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:600:LYS:HG2	1:K:601:LYS:N	2.34	0.43
1:K:645:GLU:HB3	1:K:646:THR:H	1.70	0.43
1:K:923:LYS:CG	1:K:940:VAL:CG2	2.96	0.43
1:K:1067:VAL:HG11	1:K:1112:TRP:CZ2	2.54	0.43
1:K:1181:THR:CG2	1:K:1221:LYS:HA	2.40	0.43
1:K:1187:PRO:CD	1:K:1229:PHE:CG	3.01	0.43
1:K:1235:VAL:HA	1:K:1240:ILE:O	2.18	0.43
1:M:393:VAL:CG1	1:M:486:PHE:CE2	3.01	0.43
1:M:480:CYS:CA	1:M:483:TRP:HD1	2.28	0.43
1:M:568:LEU:H	1:M:568:LEU:HG	1.50	0.43
1:M:923:LYS:CG	1:M:940:VAL:CG2	2.96	0.43
1:M:1080:ASP:O	1:M:1081:PHE:HD1	2.01	0.43
1:M:1187:PRO:HG3	1:M:1229:PHE:HB2	1.98	0.43
1:A:171:HIS:HD2	1:A:171:HIS:O	2.01	0.43
1:A:237:ARG:HH11	1:A:237:ARG:HG2	1.84	0.43
1:A:862:TYR:CE2	1:A:881:HIS:CA	3.01	0.43
1:A:1065:GLY:HA3	1:A:1086:GLY:O	2.18	0.43
1:A:1187:PRO:HG3	1:A:1229:PHE:HB2	1.98	0.43
1:C:618:VAL:HA	1:C:634:GLY:HA2	2.00	0.43
1:C:1065:GLY:HA3	1:C:1086:GLY:O	2.18	0.43
1:E:231:MET:HE3	1:E:231:MET:HB2	1.77	0.43
1:E:360:ASP:O	1:E:361:TYR:CD1	2.71	0.43
1:E:390:GLN:HB3	1:E:393:VAL:CG1	2.47	0.43
1:E:1046:THR:HG22	1:E:1063:PHE:CD2	2.52	0.43
1:G:237:ARG:HH11	1:G:237:ARG:HG2	1.83	0.43
1:G:396:PRO:O	1:G:399:VAL:HG22	2.19	0.43
1:G:1032:TRP:O	1:G:1034:LEU:N	2.50	0.43
1:G:1067:VAL:HG11	1:G:1112:TRP:CZ2	2.54	0.43
1:G:1245:GLN:HE21	1:G:1245:GLN:HB3	1.59	0.43
1:I:1175:THR:C	1:I:1176:HIS:CG	2.96	0.43
1:I:1187:PRO:CD	1:I:1229:PHE:CG	3.01	0.43
1:K:393:VAL:CG1	1:K:486:PHE:CE2	3.01	0.43
1:K:563:ILE:O	1:K:567:GLY:N	2.51	0.43
1:K:564:VAL:HG13	1:K:583:GLN:CG	2.43	0.43
1:K:639:LEU:C	1:K:639:LEU:HD12	2.44	0.43
1:K:1198:TYR:HB2	1:K:1215:THR:HG23	2.00	0.43
1:M:883:SER:O	1:M:884:TRP:O	2.37	0.43
1:M:1160:GLU:O	1:M:1162:LEU:N	2.49	0.43
1:M:1167:PRO:HB3	1:M:1202:TRP:CG	2.45	0.43
1:A:196:LEU:HD12	1:A:196:LEU:C	2.44	0.43
1:A:307:PRO:HD2	1:A:338:TRP:CH2	2.54	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:457:HIS:CD2	1:A:493:SER:OG	2.69	0.43
1:A:484:TYR:HB2	1:A:485:ASN:HD22	1.84	0.43
1:A:547:PHE:O	1:A:551:ASN:ND2	2.50	0.43
1:A:618:VAL:HA	1:A:634:GLY:HA2	2.00	0.43
1:A:1080:ASP:C	1:A:1081:PHE:CD1	2.97	0.43
1:A:1194:SER:OG	1:A:1202:TRP:CZ3	2.70	0.43
1:C:231:MET:HE3	1:C:231:MET:HB2	1.77	0.43
1:C:457:HIS:CD2	1:C:493:SER:OG	2.69	0.43
1:C:923:LYS:HD3	1:C:923:LYS:HA	1.82	0.43
1:E:237:ARG:HH11	1:E:237:ARG:HG2	1.84	0.43
1:E:618:VAL:HA	1:E:634:GLY:HA2	2.00	0.43
1:E:1175:THR:C	1:E:1176:HIS:CG	2.96	0.43
1:G:866:LEU:HD22	1:G:914:VAL:HG12	1.98	0.43
1:G:1080:ASP:C	1:G:1081:PHE:CD1	2.97	0.43
1:G:1175:THR:C	1:G:1176:HIS:CG	2.96	0.43
1:I:322:LEU:C	1:I:322:LEU:CD2	2.91	0.43
1:I:529:TYR:C	1:I:532:ILE:HG23	2.37	0.43
1:I:622:CYS:SG	1:I:664:ALA:HA	2.58	0.43
1:I:1080:ASP:C	1:I:1081:PHE:CD1	2.97	0.43
1:I:1187:PRO:HG3	1:I:1229:PHE:HB2	1.98	0.43
1:I:1235:VAL:HA	1:I:1240:ILE:O	2.18	0.43
1:K:195:LEU:HD12	1:K:195:LEU:C	2.36	0.43
1:K:396:PRO:O	1:K:399:VAL:HG22	2.19	0.43
1:K:484:TYR:HB2	1:K:485:ASN:HD22	1.84	0.43
1:K:494:ALA:O	1:K:495:LYS:CB	2.62	0.43
1:K:736:ARG:NH1	1:K:772:ALA:O	2.39	0.43
1:K:921:MET:HB3	1:K:921:MET:HE3	1.79	0.43
1:K:1181:THR:HG22	1:K:1182:ASP:N	2.34	0.43
1:M:494:ALA:O	1:M:495:LYS:CB	2.62	0.43
1:M:572:GLU:HB3	1:M:573:THR:H	1.71	0.43
1:M:600:LYS:HG2	1:M:601:LYS:N	2.34	0.43
1:M:622:CYS:SG	1:M:664:ALA:HA	2.58	0.43
1:M:766:THR:HG22	1:M:782:ASN:HA	2.00	0.43
1:M:999:ARG:HB2	1:M:1030:TRP:CE3	2.54	0.43
1:A:246:TRP:O	1:A:247:ASP:CG	2.61	0.43
1:A:262:LEU:O	1:A:262:LEU:HG	2.19	0.43
1:A:564:VAL:HG13	1:A:583:GLN:CG	2.43	0.43
1:A:1080:ASP:O	1:A:1081:PHE:HD1	2.01	0.43
1:C:529:TYR:C	1:C:529:TYR:CD1	2.95	0.43
1:C:573:THR:HA	1:C:577:TYR:CD2	2.47	0.43
1:C:883:SER:O	1:C:884:TRP:O	2.37	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:999:ARG:HB2	1:C:1030:TRP:CE3	2.54	0.43
1:C:1080:ASP:C	1:C:1081:PHE:CD1	2.97	0.43
1:C:1139:SER:OG	1:C:1140:THR:N	2.51	0.43
1:E:222:GLU:OE2	1:G:204:THR:HG21	2.19	0.43
1:E:473:LEU:HD22	1:E:484:TYR:CE1	2.43	0.43
1:E:513:LYS:O	1:E:517:VAL:CB	2.62	0.43
1:E:923:LYS:CG	1:E:940:VAL:CG2	2.96	0.43
1:E:1032:TRP:O	1:E:1034:LEU:N	2.50	0.43
1:E:1080:ASP:C	1:E:1081:PHE:CD1	2.97	0.43
1:E:1187:PRO:HG3	1:E:1229:PHE:HB2	1.98	0.43
1:E:1225:VAL:CG1	1:E:1229:PHE:CE1	3.01	0.43
1:G:156:ALA:HB2	1:G:265:ARG:NH2	2.34	0.43
1:G:196:LEU:HD12	1:G:196:LEU:C	2.44	0.43
1:G:235:HIS:HB3	1:G:238:SER:HB3	2.01	0.43
1:G:554:LEU:HD13	1:G:554:LEU:C	2.43	0.43
1:G:736:ARG:NH1	1:G:772:ALA:O	2.39	0.43
1:G:945:ARG:HG3	1:G:964:VAL:HG13	2.01	0.43
1:G:970:SER:HB3	1:G:975:TYR:HB2	2.01	0.43
1:I:235:HIS:HB3	1:I:238:SER:HB3	2.01	0.43
1:I:581:LYS:HD2	1:I:581:LYS:HA	1.68	0.43
1:I:862:TYR:CG	1:I:862:TYR:O	2.70	0.43
1:I:879:ARG:CB	1:I:921:MET:CE	2.73	0.43
1:I:1072:ILE:O	1:I:1074:THR:N	2.52	0.43
1:K:222:GLU:OE2	1:M:204:THR:HG21	2.19	0.43
1:K:326:LEU:HD23	1:K:353:ILE:HG22	2.01	0.43
1:K:529:TYR:O	1:K:529:TYR:HD1	2.02	0.43
1:K:805:SER:HB2	1:K:814:MET:HB3	2.00	0.43
1:K:1065:GLY:HA3	1:K:1086:GLY:O	2.18	0.43
1:M:262:LEU:O	1:M:262:LEU:HG	2.19	0.43
1:M:1187:PRO:CD	1:M:1229:PHE:CG	3.01	0.43
1:A:485:ASN:HD22	1:A:485:ASN:H	1.67	0.42
1:A:526:PHE:HA	1:A:529:TYR:HB3	2.00	0.42
1:C:127:VAL:CG1	1:C:293:GLU:HG2	2.49	0.42
1:C:396:PRO:O	1:C:399:VAL:HG22	2.19	0.42
1:C:557:ARG:CG	1:C:558:GLN:N	2.79	0.42
1:C:659:GLU:HG3	1:C:659:GLU:O	2.18	0.42
1:E:127:VAL:CG1	1:E:293:GLU:HG2	2.49	0.42
1:E:171:HIS:HD2	1:E:171:HIS:O	2.01	0.42
1:E:196:LEU:HD12	1:E:196:LEU:C	2.44	0.42
1:E:347:ASN:O	1:E:348:LYS:HB2	2.19	0.42
1:E:1168:LEU:HD11	1:E:1171:GLU:HB3	2.00	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:222:GLU:OE2	1:I:204:THR:HG21	2.19	0.42
1:G:307:PRO:HD2	1:G:338:TRP:CH2	2.54	0.42
1:G:393:VAL:CG1	1:G:486:PHE:CE2	3.01	0.42
1:G:526:PHE:HA	1:G:529:TYR:HB3	2.00	0.42
1:G:529:TYR:O	1:G:529:TYR:HD1	2.02	0.42
1:G:678:ASP:OD2	1:G:680:LYS:CD	2.67	0.42
1:G:1007:TRP:HZ3	1:G:1048:LYS:HA	1.83	0.42
1:I:139:LYS:HD2	1:I:278:TYR:CB	2.48	0.42
1:I:156:ALA:HB2	1:I:265:ARG:NH2	2.34	0.42
1:I:237:ARG:HH11	1:I:237:ARG:HG2	1.83	0.42
1:I:814:MET:HE2	1:I:823:LEU:HD13	2.01	0.42
1:I:945:ARG:HG3	1:I:964:VAL:HG13	2.01	0.42
1:I:1067:VAL:HG11	1:I:1112:TRP:CZ2	2.54	0.42
1:K:137:GLN:HG3	1:K:173:LEU:HD22	1.95	0.42
1:K:359:TYR:HE1	1:K:361:TYR:CD1	2.32	0.42
1:K:1072:ILE:O	1:K:1074:THR:N	2.52	0.42
1:K:1080:ASP:C	1:K:1081:PHE:CD1	2.97	0.42
1:M:347:ASN:O	1:M:348:LYS:HB2	2.19	0.42
1:M:485:ASN:HD22	1:M:485:ASN:H	1.67	0.42
1:M:485:ASN:CB	1:M:486:PHE:CD1	3.02	0.42
1:M:563:ILE:O	1:M:567:GLY:N	2.51	0.42
1:M:805:SER:HB2	1:M:814:MET:HB3	2.00	0.42
1:M:1225:VAL:HG11	1:M:1229:PHE:CE2	2.53	0.42
1:A:162:VAL:O	1:A:166:GLU:HB2	2.20	0.42
1:A:402:ILE:HG12	1:A:402:ILE:H	1.65	0.42
1:A:409:GLU:CG	1:C:340:TYR:CZ	3.00	0.42
1:A:485:ASN:CB	1:A:486:PHE:CD1	3.02	0.42
1:A:558:GLN:C	1:A:560:PHE:N	2.75	0.42
1:A:845:TYR:HD2	1:A:858:ALA:HB3	1.84	0.42
1:A:866:LEU:HD22	1:A:914:VAL:HG12	1.98	0.42
1:A:875:VAL:CG1	1:A:915:CYS:SG	2.94	0.42
1:C:196:LEU:HD12	1:C:196:LEU:C	2.44	0.42
1:C:391:LYS:H	1:C:391:LYS:HG2	1.60	0.42
1:C:1200:LYS:HA	1:C:1211:GLN:O	2.18	0.42
1:E:261:LEU:HD12	1:E:261:LEU:O	2.18	0.42
1:E:639:LEU:C	1:E:639:LEU:HD12	2.44	0.42
1:E:1208:GLU:CG	1:E:1211:GLN:HG2	2.49	0.42
1:G:137:GLN:HG3	1:G:173:LEU:HD22	1.95	0.42
1:G:262:LEU:O	1:G:262:LEU:HG	2.19	0.42
1:G:1072:ILE:O	1:G:1074:THR:N	2.52	0.42
1:G:1212:THR:CG2	1:G:1213:PHE:H	2.12	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:222:GLU:OE2	1:K:204:THR:HG21	2.19	0.42
1:I:320:SER:O	1:I:320:SER:OG	2.36	0.42
1:I:390:GLN:HB3	1:I:393:VAL:CG1	2.47	0.42
1:I:558:GLN:C	1:I:560:PHE:N	2.75	0.42
1:I:736:ARG:NH1	1:I:772:ALA:O	2.39	0.42
1:I:938:LEU:HD13	1:I:938:LEU:HA	1.85	0.42
1:I:1168:LEU:HD11	1:I:1171:GLU:HB3	2.00	0.42
1:K:171:HIS:HD2	1:K:171:HIS:O	2.01	0.42
1:K:307:PRO:HD2	1:K:338:TRP:CH2	2.54	0.42
1:K:814:MET:HE2	1:K:823:LEU:HD13	2.02	0.42
1:M:394:LYS:HB3	1:M:434:ARG:CG	2.48	0.42
1:M:526:PHE:HA	1:M:529:TYR:HB3	2.00	0.42
1:M:529:TYR:O	1:M:529:TYR:HD1	2.02	0.42
1:M:529:TYR:C	1:M:529:TYR:CD1	2.95	0.42
1:M:1181:THR:HG22	1:M:1182:ASP:N	2.34	0.42
1:A:127:VAL:CG1	1:A:293:GLU:HG2	2.49	0.42
1:A:204:THR:HG21	1:M:222:GLU:OE2	2.19	0.42
1:A:320:SER:O	1:A:320:SER:OG	2.36	0.42
1:A:554:LEU:HD13	1:A:554:LEU:C	2.43	0.42
1:A:597:TRP:CZ3	1:A:600:LYS:HA	2.54	0.42
1:A:814:MET:HE2	1:A:823:LEU:HD13	2.02	0.42
1:A:866:LEU:CD2	1:A:914:VAL:HB	2.43	0.42
1:A:970:SER:CB	1:A:975:TYR:HB2	2.49	0.42
1:A:1032:TRP:O	1:A:1034:LEU:N	2.50	0.42
1:A:1067:VAL:HG11	1:A:1112:TRP:CZ2	2.54	0.42
1:A:1175:THR:C	1:A:1176:HIS:CG	2.96	0.42
1:C:320:SER:HG	1:C:323:VAL:HB	1.85	0.42
1:C:485:ASN:CB	1:C:486:PHE:CD1	3.02	0.42
1:C:970:SER:CB	1:C:975:TYR:HB2	2.49	0.42
1:C:970:SER:HB3	1:C:975:TYR:HB2	2.01	0.42
1:C:1072:ILE:O	1:C:1074:THR:N	2.52	0.42
1:C:1185:PHE:CE1	1:C:1192:LEU:HD12	2.39	0.42
1:E:326:LEU:HD23	1:E:353:ILE:HG22	2.01	0.42
1:E:361:TYR:HB3	1:E:366:GLU:HG2	2.01	0.42
1:E:406:MET:O	1:E:411:VAL:CG2	2.68	0.42
1:E:484:TYR:HB2	1:E:485:ASN:HD22	1.84	0.42
1:G:558:GLN:C	1:G:560:PHE:N	2.75	0.42
1:G:597:TRP:CZ3	1:G:600:LYS:HA	2.55	0.42
1:G:999:ARG:HB2	1:G:1030:TRP:CE3	2.54	0.42
1:G:1168:LEU:HD11	1:G:1171:GLU:HB3	2.00	0.42
1:G:1233:VAL:CB	1:G:1243:ILE:HG12	2.49	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:162:VAL:O	1:I:166:GLU:HB2	2.20	0.42
1:I:334:PHE:CB	1:I:337:ARG:CD	2.87	0.42
1:I:526:PHE:HA	1:I:529:TYR:HB3	2.00	0.42
1:I:529:TYR:C	1:I:529:TYR:CD1	2.95	0.42
1:K:156:ALA:HB2	1:K:265:ARG:NH2	2.34	0.42
1:K:390:GLN:HB3	1:K:393:VAL:CG1	2.47	0.42
1:K:529:TYR:C	1:K:529:TYR:CD1	2.95	0.42
1:K:622:CYS:SG	1:K:664:ALA:HA	2.58	0.42
1:K:1168:LEU:HD11	1:K:1171:GLU:HB3	2.00	0.42
1:K:1177:GLY:HA2	1:K:1197:GLY:HA3	2.01	0.42
1:M:326:LEU:HD23	1:M:353:ILE:HG22	2.01	0.42
1:M:361:TYR:HB3	1:M:366:GLU:HG2	2.02	0.42
1:M:533:LEU:HB3	1:M:534:ASP:H	1.60	0.42
1:M:814:MET:HE2	1:M:823:LEU:HD13	2.01	0.42
1:M:882:LEU:HD23	1:M:903:ASP:HB2	2.01	0.42
1:M:1007:TRP:HZ3	1:M:1048:LYS:HA	1.83	0.42
1:M:1067:VAL:HG11	1:M:1112:TRP:CZ2	2.54	0.42
1:M:1139:SER:OG	1:M:1140:THR:N	2.51	0.42
1:A:882:LEU:HD23	1:A:903:ASP:HB2	2.01	0.42
1:A:1200:LYS:HA	1:A:1211:GLN:O	2.18	0.42
1:A:1233:VAL:HB	1:A:1243:ILE:HA	2.00	0.42
1:C:222:GLU:OE2	1:E:204:THR:HG21	2.19	0.42
1:C:361:TYR:HB3	1:C:366:GLU:HG2	2.01	0.42
1:C:678:ASP:OD2	1:C:680:LYS:CD	2.67	0.42
1:C:814:MET:HE2	1:C:823:LEU:HD13	2.02	0.42
1:C:866:LEU:HD22	1:C:914:VAL:HG12	1.98	0.42
1:C:1044:GLN:HG2	1:C:1068:LYS:HZ2	1.84	0.42
1:C:1212:THR:OG1	1:C:1213:PHE:N	2.53	0.42
1:E:394:LYS:CB	1:E:434:ARG:CB	2.80	0.42
1:E:547:PHE:O	1:E:551:ASN:ND2	2.50	0.42
1:E:554:LEU:HD13	1:E:554:LEU:C	2.43	0.42
1:E:597:TRP:CZ3	1:E:600:LYS:HA	2.54	0.42
1:E:866:LEU:HD22	1:E:914:VAL:HG12	1.98	0.42
1:E:1233:VAL:CB	1:E:1243:ILE:HG12	2.49	0.42
1:G:127:VAL:CG1	1:G:293:GLU:HG2	2.49	0.42
1:G:1181:THR:HG22	1:G:1182:ASP:N	2.34	0.42
1:I:326:LEU:HD23	1:I:353:ILE:HG22	2.01	0.42
1:I:554:LEU:HD13	1:I:554:LEU:C	2.43	0.42
1:I:603:ILE:CD1	1:I:1242:TYR:CE1	3.00	0.42
1:I:639:LEU:C	1:I:639:LEU:HD12	2.44	0.42
1:I:970:SER:HB3	1:I:975:TYR:HB2	2.01	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:235:HIS:HB3	1:K:238:SER:HB3	2.01	0.42
1:K:882:LEU:HD23	1:K:903:ASP:HB2	2.01	0.42
1:K:1007:TRP:HZ3	1:K:1048:LYS:HA	1.83	0.42
1:K:1181:THR:HG21	1:K:1221:LYS:CA	2.39	0.42
1:M:196:LEU:HD12	1:M:196:LEU:C	2.44	0.42
1:M:713:HIS:ND1	1:M:755:ASP:OD2	2.53	0.42
1:M:1072:ILE:O	1:M:1074:THR:N	2.52	0.42
1:A:396:PRO:O	1:A:399:VAL:HG22	2.19	0.42
1:A:970:SER:HB3	1:A:975:TYR:HB2	2.01	0.42
1:A:1139:SER:OG	1:A:1140:THR:N	2.51	0.42
1:C:156:ALA:HB2	1:C:265:ARG:NH2	2.34	0.42
1:C:322:LEU:HG	1:C:359:TYR:HE2	1.85	0.42
1:C:347:ASN:O	1:C:348:LYS:HB2	2.19	0.42
1:C:485:ASN:HD22	1:C:485:ASN:H	1.67	0.42
1:C:1007:TRP:HZ3	1:C:1048:LYS:HA	1.83	0.42
1:C:1245:GLN:HE21	1:C:1245:GLN:HB3	1.59	0.42
1:E:156:ALA:HB2	1:E:265:ARG:NH2	2.34	0.42
1:E:394:LYS:HB3	1:E:434:ARG:CG	2.48	0.42
1:E:669:ASP:O	1:E:686:SER:OG	2.27	0.42
1:E:970:SER:CB	1:E:975:TYR:HB2	2.49	0.42
1:E:1139:SER:OG	1:E:1140:THR:N	2.51	0.42
1:G:206:LEU:CD2	1:G:235:HIS:CD2	3.03	0.42
1:G:270:THR:O	1:G:270:THR:OG1	2.32	0.42
1:G:416:GLN:CA	1:G:416:GLN:HE21	2.32	0.42
1:I:262:LEU:O	1:I:262:LEU:HG	2.19	0.42
1:I:416:GLN:CA	1:I:416:GLN:HE21	2.32	0.42
1:I:595:LEU:HD13	1:I:1244:LEU:CD1	2.50	0.42
1:I:862:TYR:CE2	1:I:881:HIS:CA	3.01	0.42
1:I:999:ARG:HB2	1:I:1030:TRP:CE3	2.54	0.42
2:J:16:GLN:OE1	2:J:16:GLN:N	2.47	0.42
1:K:347:ASN:C	1:K:348:LYS:CG	2.92	0.42
1:K:560:PHE:HA	1:K:561:PRO:HD2	1.73	0.42
1:K:595:LEU:HD13	1:K:1244:LEU:CD1	2.50	0.42
1:K:678:ASP:OD2	1:K:680:LYS:CD	2.67	0.42
1:K:852:ASN:HB2	1:K:854:LEU:HG	2.02	0.42
1:K:883:SER:O	1:K:884:TRP:O	2.37	0.42
1:M:597:TRP:CZ3	1:M:600:LYS:CB	3.02	0.42
1:M:678:ASP:OD2	1:M:680:LYS:CD	2.67	0.42
1:M:852:ASN:HB2	1:M:854:LEU:HG	2.02	0.42
1:M:1080:ASP:C	1:M:1081:PHE:CD1	2.97	0.42
1:A:156:ALA:HB2	1:A:265:ARG:NH2	2.34	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:391:LYS:H	1:A:391:LYS:HG2	1.60	0.42
1:A:534:ASP:O	1:A:538:CYS:SG	2.69	0.42
1:A:641:VAL:HB	1:A:651:LEU:HB2	1.97	0.42
1:A:1181:THR:HG22	1:A:1182:ASP:N	2.34	0.42
1:C:406:MET:O	1:C:411:VAL:CG2	2.68	0.42
1:C:669:ASP:O	1:C:686:SER:OG	2.27	0.42
1:C:862:TYR:CG	1:C:862:TYR:O	2.70	0.42
1:C:882:LEU:HD23	1:C:903:ASP:HB2	2.01	0.42
1:C:1228:ASP:CB	1:C:1230:LYS:HG2	2.37	0.42
1:E:111:ARG:HG2	1:E:111:ARG:H	1.63	0.42
1:E:235:HIS:HB3	1:E:238:SER:HB3	2.01	0.42
1:E:320:SER:O	1:E:320:SER:OG	2.36	0.42
1:E:480:CYS:CA	1:E:483:TRP:HD1	2.28	0.42
1:E:526:PHE:HA	1:E:529:TYR:HB3	2.00	0.42
1:E:641:VAL:HB	1:E:651:LEU:HB2	1.97	0.42
1:E:1072:ILE:O	1:E:1074:THR:N	2.52	0.42
1:G:162:VAL:O	1:G:166:GLU:HB2	2.20	0.42
1:G:330:LEU:HA	1:G:330:LEU:HD12	1.74	0.42
1:G:402:ILE:HG12	1:G:402:ILE:H	1.65	0.42
1:G:484:TYR:HB2	1:G:485:ASN:HD22	1.84	0.42
1:G:639:LEU:C	1:G:639:LEU:HD12	2.44	0.42
1:G:1056:SER:O	1:G:1072:ILE:N	2.31	0.42
1:G:1176:HIS:CB	1:G:1218:THR:CB	2.98	0.42
1:I:563:ILE:O	1:I:567:GLY:N	2.51	0.42
1:I:1176:HIS:CB	1:I:1218:THR:HG21	2.42	0.42
1:K:174:LEU:C	1:K:174:LEU:CD2	2.85	0.42
1:K:206:LEU:CD2	1:K:235:HIS:CD2	3.03	0.42
1:K:389:LEU:HD21	1:K:395:VAL:HG21	2.02	0.42
1:K:597:TRP:CZ2	1:K:603:ILE:CG1	2.94	0.42
1:K:597:TRP:CZ3	1:K:600:LYS:CB	3.02	0.42
1:K:999:ARG:HB2	1:K:1030:TRP:CE3	2.54	0.42
1:M:603:ILE:CD1	1:M:1242:TYR:CE1	3.00	0.42
1:M:639:LEU:H	1:M:653:ILE:HG22	1.79	0.42
1:M:659:GLU:HG3	1:M:659:GLU:O	2.18	0.42
1:M:786:PHE:CE1	1:M:819:ASN:HB2	2.55	0.42
1:M:970:SER:CB	1:M:975:TYR:HB2	2.49	0.42
1:A:361:TYR:HB3	1:A:366:GLU:HG2	2.01	0.42
1:A:390:GLN:HB3	1:A:393:VAL:CG1	2.47	0.42
1:A:595:LEU:HD13	1:A:1244:LEU:CG	2.50	0.42
1:A:597:TRP:CZ3	1:A:600:LYS:CB	3.02	0.42
1:A:713:HIS:ND1	1:A:755:ASP:OD2	2.53	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:326:LEU:HD23	1:C:353:ILE:HG22	2.01	0.42
1:C:416:GLN:CA	1:C:416:GLN:HE21	2.32	0.42
1:C:429:ASN:HD22	1:C:429:ASN:HA	1.66	0.42
1:C:845:TYR:HD2	1:C:858:ALA:HB3	1.84	0.42
1:E:230:LEU:CD2	1:E:234:LYS:CG	2.85	0.42
1:E:416:GLN:CA	1:E:416:GLN:HE21	2.32	0.42
1:E:713:HIS:ND1	1:E:755:ASP:OD2	2.53	0.42
1:E:814:MET:HE2	1:E:823:LEU:HD13	2.02	0.42
1:G:406:MET:O	1:G:411:VAL:CG2	2.68	0.42
1:G:595:LEU:HD13	1:G:1244:LEU:CG	2.50	0.42
1:G:814:MET:HE2	1:G:823:LEU:HD13	2.02	0.42
1:G:970:SER:CB	1:G:975:TYR:HB2	2.50	0.42
1:I:307:PRO:HD2	1:I:338:TRP:CH2	2.54	0.42
1:I:389:LEU:HD21	1:I:395:VAL:HG21	2.02	0.42
1:I:560:PHE:HA	1:I:561:PRO:HD2	1.73	0.42
1:I:713:HIS:ND1	1:I:755:ASP:OD2	2.53	0.42
1:I:786:PHE:CE1	1:I:819:ASN:HB2	2.55	0.42
1:I:970:SER:CB	1:I:975:TYR:HB2	2.49	0.42
1:K:526:PHE:HA	1:K:529:TYR:HB3	2.00	0.42
1:K:786:PHE:CE1	1:K:819:ASN:HB2	2.55	0.42
1:K:879:ARG:CG	1:K:921:MET:HE2	2.50	0.42
1:K:1163:HIS:HB3	1:K:1205:VAL:HG13	2.02	0.42
1:M:389:LEU:HD21	1:M:395:VAL:HG21	2.02	0.42
1:M:416:GLN:CA	1:M:416:GLN:HE21	2.32	0.42
1:M:1233:VAL:O	1:M:1233:VAL:CG2	2.68	0.42
1:A:320:SER:OG	1:A:323:VAL:HG23	2.20	0.42
1:A:322:LEU:HG	1:A:359:TYR:HE2	1.85	0.42
1:A:389:LEU:HD21	1:A:395:VAL:HG21	2.02	0.42
1:A:480:CYS:CA	1:A:483:TRP:HD1	2.28	0.42
1:A:703:ASN:HD22	1:A:746:VAL:HB	1.84	0.42
1:C:320:SER:OG	1:C:323:VAL:HG23	2.20	0.42
1:C:493:SER:O	1:C:495:LYS:HG3	2.20	0.42
1:C:597:TRP:CZ3	1:C:600:LYS:CB	3.02	0.42
1:C:852:ASN:HB2	1:C:854:LEU:HG	2.02	0.42
1:E:260:ILE:O	1:E:260:ILE:HG12	2.20	0.42
1:E:320:SER:OG	1:E:323:VAL:HG23	2.20	0.42
1:E:639:LEU:H	1:E:653:ILE:HG22	1.79	0.42
1:E:882:LEU:HD23	1:E:903:ASP:HB2	2.01	0.42
1:E:970:SER:HB3	1:E:975:TYR:HB2	2.01	0.42
1:G:132:LEU:HD23	1:G:132:LEU:HA	1.76	0.42
1:G:261:LEU:HD12	1:G:261:LEU:O	2.18	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:327:ILE:HD13	1:G:327:ILE:HA	1.82	0.42
1:G:1160:GLU:O	1:G:1162:LEU:N	2.49	0.42
1:G:1233:VAL:HB	1:G:1243:ILE:HA	2.00	0.42
1:I:396:PRO:O	1:I:399:VAL:HG22	2.19	0.42
1:I:678:ASP:OD2	1:I:680:LYS:CD	2.67	0.42
1:I:852:ASN:HB2	1:I:854:LEU:HG	2.02	0.42
1:I:1212:THR:OG1	1:I:1213:PHE:N	2.53	0.42
1:K:196:LEU:HD12	1:K:196:LEU:C	2.44	0.42
1:K:320:SER:O	1:K:320:SER:OG	2.36	0.42
1:K:713:HIS:ND1	1:K:755:ASP:OD2	2.53	0.42
1:K:970:SER:CB	1:K:975:TYR:HB2	2.49	0.42
1:K:1212:THR:OG1	1:K:1213:PHE:N	2.53	0.42
1:M:496:MET:HE3	1:M:496:MET:CA	2.31	0.42
1:M:505:PHE:CE2	1:M:575:GLU:OE1	2.55	0.42
1:M:1163:HIS:HB3	1:M:1205:VAL:HG13	2.02	0.42
1:M:1177:GLY:HA2	1:M:1197:GLY:HA3	2.01	0.42
1:M:1182:ASP:HB3	1:M:1223:ILE:HG23	1.98	0.42
1:A:197:MET:HE3	1:A:197:MET:HB2	1.76	0.42
1:A:485:ASN:HB3	1:A:486:PHE:CE1	2.55	0.42
1:A:595:LEU:HD13	1:A:1244:LEU:CD1	2.50	0.42
1:A:1212:THR:OG1	1:A:1213:PHE:N	2.53	0.42
1:C:162:VAL:O	1:C:166:GLU:HB2	2.20	0.42
1:C:347:ASN:C	1:C:348:LYS:CG	2.92	0.42
1:C:364:LEU:HA	1:C:364:LEU:HD22	1.82	0.42
1:C:526:PHE:HA	1:C:529:TYR:HB3	2.00	0.42
1:C:713:HIS:ND1	1:C:755:ASP:OD2	2.53	0.42
1:C:1032:TRP:O	1:C:1034:LEU:N	2.50	0.42
1:C:1181:THR:CG2	1:C:1221:LYS:HA	2.40	0.42
1:C:1233:VAL:CB	1:C:1243:ILE:HG12	2.49	0.42
1:E:174:LEU:O	1:E:178:PHE:HB2	2.20	0.42
1:E:259:GLN:H	1:E:259:GLN:HG2	1.56	0.42
1:E:595:LEU:HD13	1:E:1244:LEU:CD1	2.50	0.42
1:E:597:TRP:CZ3	1:E:600:LYS:CB	3.02	0.42
1:E:678:ASP:OD2	1:E:680:LYS:CD	2.68	0.42
1:E:883:SER:O	1:E:884:TRP:O	2.37	0.42
1:E:1233:VAL:HB	1:E:1243:ILE:HA	2.00	0.42
1:G:452:GLN:O	1:G:456:LEU:HG	2.19	0.42
1:G:493:SER:O	1:G:495:LYS:HG3	2.20	0.42
1:G:882:LEU:HD23	1:G:903:ASP:HB2	2.01	0.42
1:G:1030:TRP:HA	1:G:1036:LYS:O	2.20	0.42
2:H:14:CYS:CB	5:H:201:HEM:CAB	2.96	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:127:VAL:CG1	1:I:293:GLU:HG2	2.50	0.42
1:I:130:LYS:HE2	1:I:130:LYS:HB2	1.74	0.42
1:I:196:LEU:HD12	1:I:196:LEU:C	2.44	0.42
1:I:493:SER:O	1:I:495:LYS:HG3	2.20	0.42
1:K:162:VAL:O	1:K:166:GLU:HB2	2.20	0.42
1:K:1233:VAL:O	1:K:1233:VAL:CG2	2.68	0.42
1:M:162:VAL:O	1:M:166:GLU:HB2	2.20	0.42
1:M:206:LEU:CD2	1:M:235:HIS:CD2	3.03	0.42
1:M:322:LEU:HG	1:M:359:TYR:HE2	1.85	0.42
1:M:484:TYR:HB2	1:M:485:ASN:HD22	1.84	0.42
1:M:1030:TRP:HA	1:M:1036:LYS:O	2.20	0.42
1:M:1140:THR:OG1	1:M:1155:ASN:OD1	2.31	0.42
1:M:1225:VAL:HG11	1:M:1229:PHE:CG	2.55	0.42
1:A:364:LEU:HD13	1:A:368:MET:HE2	2.02	0.42
1:A:507:LEU:CD1	1:A:579:GLN:CG	2.98	0.42
1:A:595:LEU:CD2	1:A:1201:TRP:HH2	2.33	0.42
1:A:852:ASN:HB2	1:A:854:LEU:HG	2.02	0.42
1:A:1177:GLY:HA2	1:A:1197:GLY:HA3	2.01	0.42
1:C:179:PRO:CG	1:C:237:ARG:HH11	2.17	0.42
1:C:452:GLN:O	1:C:456:LEU:HG	2.20	0.42
1:C:507:LEU:CD1	1:C:579:GLN:CG	2.98	0.42
1:C:597:TRP:CZ3	1:C:600:LYS:HA	2.54	0.42
1:C:641:VAL:HB	1:C:651:LEU:HB2	1.97	0.42
1:C:1126:HIS:CD2	1:C:1128:GLY:H	2.38	0.42
1:C:1233:VAL:HB	1:C:1243:ILE:HA	2.00	0.42
1:E:452:GLN:O	1:E:456:LEU:HG	2.20	0.42
1:E:852:ASN:HB2	1:E:854:LEU:HG	2.02	0.42
1:E:1140:THR:OG1	1:E:1155:ASN:OD1	2.31	0.42
2:F:52:ASN:OD1	5:F:201:HEM:HBD1	2.20	0.42
1:G:212:PHE:CB	1:G:226:ARG:NH1	2.57	0.42
1:G:239:LEU:C	1:G:239:LEU:CD1	2.85	0.42
1:G:242:LEU:HD12	1:G:242:LEU:N	2.26	0.42
1:G:326:LEU:HD23	1:G:353:ILE:HG22	2.01	0.42
1:G:603:ILE:CD1	1:G:1242:TYR:CE1	3.00	0.42
1:G:866:LEU:CD2	1:G:914:VAL:HB	2.43	0.42
1:G:1139:SER:OG	1:G:1140:THR:N	2.51	0.42
1:G:1212:THR:OG1	1:G:1213:PHE:N	2.53	0.42
1:G:1220:LEU:HD23	1:G:1234:THR:HG21	2.01	0.42
1:I:239:LEU:HD12	1:I:240:LEU:H	1.76	0.42
1:I:882:LEU:HD23	1:I:903:ASP:HB2	2.01	0.42
1:I:978:PHE:CZ	1:I:986:GLU:HB2	2.55	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:1233:VAL:CB	1:I:1243:ILE:HG12	2.49	0.42
1:K:174:LEU:O	1:K:178:PHE:HB2	2.20	0.42
1:K:306:LEU:HA	1:K:307:PRO:HD3	1.76	0.42
1:K:406:MET:O	1:K:411:VAL:CG2	2.68	0.42
1:K:416:GLN:HE21	1:K:416:GLN:C	2.25	0.42
1:K:879:ARG:CB	1:K:921:MET:CE	2.73	0.42
1:K:970:SER:HB3	1:K:975:TYR:HB2	2.01	0.42
1:K:978:PHE:CZ	1:K:986:GLU:HB2	2.55	0.42
1:K:1187:PRO:HG3	1:K:1229:PHE:HB2	1.98	0.42
1:K:1225:VAL:HG11	1:K:1229:PHE:CG	2.55	0.42
2:L:16:GLN:OE1	2:L:16:GLN:N	2.47	0.42
2:L:18:HIS:NE2	5:L:201:HEM:C4C	2.88	0.42
1:M:390:GLN:HB3	1:M:393:VAL:CG1	2.47	0.42
1:A:146:GLU:O	1:A:147:PRO:C	2.60	0.41
1:A:206:LEU:CD2	1:A:235:HIS:CD2	3.03	0.41
1:A:678:ASP:OD2	1:A:680:LYS:CD	2.67	0.41
1:A:1166:ALA:N	1:A:1167:PRO:CD	2.78	0.41
1:A:1176:HIS:CB	1:A:1218:THR:CB	2.98	0.41
2:B:14:CYS:CB	5:B:201:HEM:CAB	2.96	0.41
1:C:174:LEU:O	1:C:178:PHE:HB2	2.20	0.41
1:C:480:CYS:CA	1:C:483:TRP:HD1	2.28	0.41
1:E:162:VAL:O	1:E:166:GLU:HB2	2.20	0.41
1:E:557:ARG:CG	1:E:558:GLN:N	2.79	0.41
2:F:18:HIS:NE2	5:F:201:HEM:C4C	2.88	0.41
1:G:174:LEU:O	1:G:178:PHE:HB2	2.20	0.41
1:G:322:LEU:HG	1:G:359:TYR:HE2	1.85	0.41
1:G:597:TRP:CZ3	1:G:600:LYS:CB	3.02	0.41
1:G:1200:LYS:HG3	1:G:1211:GLN:HA	2.01	0.41
2:H:10:PHE:CD1	2:H:14:CYS:HB2	2.55	0.41
1:I:140:LEU:C	1:I:140:LEU:CD1	2.86	0.41
1:I:179:PRO:CG	1:I:237:ARG:HH11	2.17	0.41
1:I:244:ASP:OD1	1:I:246:TRP:NE1	2.50	0.41
1:I:279:VAL:O	1:I:279:VAL:HG23	2.20	0.41
1:I:505:PHE:CE2	1:I:575:GLU:OE1	2.55	0.41
1:I:597:TRP:CZ3	1:I:600:LYS:CB	3.02	0.41
1:I:922:LEU:HD12	1:I:1241:LEU:CD2	2.39	0.41
1:I:1163:HIS:HB3	1:I:1205:VAL:HG13	2.02	0.41
1:I:1220:LEU:HD23	1:I:1234:THR:HG21	2.01	0.41
1:K:155:MET:HE2	1:K:155:MET:HB2	1.69	0.41
1:K:452:GLN:O	1:K:456:LEU:HG	2.19	0.41
1:K:485:ASN:HD22	1:K:485:ASN:H	1.67	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:485:ASN:HB3	1:K:486:PHE:CE1	2.55	0.41
2:L:18:HIS:CE1	2:L:30:PRO:CD	3.00	0.41
1:M:156:ALA:HB2	1:M:265:ARG:NH2	2.34	0.41
1:M:845:TYR:HD2	1:M:858:ALA:HB3	1.84	0.41
1:M:970:SER:HB3	1:M:975:TYR:HB2	2.01	0.41
1:A:306:LEU:HA	1:A:307:PRO:HD3	1.76	0.41
1:A:479:ASP:C	1:A:483:TRP:CD1	2.98	0.41
1:A:659:GLU:HG3	1:A:659:GLU:O	2.18	0.41
1:A:970:SER:HA	1:A:1011:PHE:CD2	2.55	0.41
1:A:1176:HIS:CB	1:A:1218:THR:HG21	2.42	0.41
1:C:389:LEU:HD21	1:C:395:VAL:HG21	2.02	0.41
1:C:390:GLN:HB3	1:C:393:VAL:CG1	2.47	0.41
1:C:786:PHE:CE1	1:C:819:ASN:HB2	2.55	0.41
2:D:52:ASN:OD1	5:D:201:HEM:HBD1	2.20	0.41
1:E:261:LEU:C	1:E:261:LEU:CD1	2.85	0.41
1:E:262:LEU:O	1:E:262:LEU:HG	2.19	0.41
1:E:786:PHE:CE1	1:E:819:ASN:HB2	2.55	0.41
1:G:260:ILE:O	1:G:260:ILE:HG12	2.20	0.41
1:G:389:LEU:HD21	1:G:395:VAL:HG21	2.02	0.41
1:G:431:LYS:HZ1	1:I:336:ASN:CB	2.29	0.41
1:G:713:HIS:ND1	1:G:755:ASP:OD2	2.53	0.41
1:G:852:ASN:HB2	1:G:854:LEU:HG	2.02	0.41
1:G:1111:ILE:O	1:G:1120:LEU:N	2.54	0.41
2:H:18:HIS:NE2	5:H:201:HEM:C4C	2.88	0.41
2:H:52:ASN:OD1	5:H:201:HEM:HBD1	2.20	0.41
1:I:452:GLN:O	1:I:456:LEU:HG	2.19	0.41
1:I:484:TYR:HB2	1:I:485:ASN:HD22	1.84	0.41
2:J:10:PHE:CD1	2:J:14:CYS:HB2	2.55	0.41
1:K:130:LYS:HB2	1:K:130:LYS:HE2	1.74	0.41
1:K:262:LEU:O	1:K:262:LEU:HG	2.19	0.41
1:K:320:SER:OG	1:K:323:VAL:HG23	2.20	0.41
1:K:597:TRP:CZ3	1:K:600:LYS:HA	2.55	0.41
1:M:127:VAL:CG1	1:M:293:GLU:HG2	2.50	0.41
1:M:235:HIS:HB3	1:M:238:SER:HB3	2.01	0.41
1:M:970:SER:HA	1:M:1011:PHE:CD2	2.55	0.41
1:A:326:LEU:HD23	1:A:353:ILE:HG22	2.01	0.41
1:A:330:LEU:HD12	1:A:330:LEU:HA	1.74	0.41
1:A:406:MET:O	1:A:411:VAL:CG2	2.68	0.41
1:A:473:LEU:CD1	1:A:480:CYS:HB3	2.47	0.41
1:A:493:SER:O	1:A:495:LYS:HG3	2.20	0.41
1:A:563:ILE:O	1:A:567:GLY:N	2.51	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:786:PHE:CE1	1:A:819:ASN:HB2	2.55	0.41
1:A:1056:SER:O	1:A:1072:ILE:N	2.32	0.41
1:A:1126:HIS:CD2	1:A:1128:GLY:H	2.38	0.41
1:A:1163:HIS:HB3	1:A:1205:VAL:HG13	2.02	0.41
1:A:1220:LEU:HD23	1:A:1234:THR:HG21	2.01	0.41
1:C:279:VAL:O	1:C:279:VAL:HG23	2.20	0.41
1:C:326:LEU:CD2	1:C:353:ILE:HB	2.51	0.41
1:C:581:LYS:HA	1:C:581:LYS:HD2	1.68	0.41
1:C:970:SER:HA	1:C:1011:PHE:CD2	2.55	0.41
1:C:1225:VAL:CG1	1:C:1229:PHE:CE1	3.01	0.41
1:E:212:PHE:HD1	1:E:212:PHE:HA	1.79	0.41
1:E:507:LEU:CD1	1:E:579:GLN:CG	2.98	0.41
1:E:595:LEU:HD13	1:E:1244:LEU:CG	2.50	0.41
1:E:999:ARG:HB2	1:E:1030:TRP:CE3	2.54	0.41
1:E:1030:TRP:HA	1:E:1036:LYS:O	2.20	0.41
1:E:1111:ILE:O	1:E:1120:LEU:N	2.54	0.41
1:E:1177:GLY:HA2	1:E:1197:GLY:HA3	2.01	0.41
1:E:1201:TRP:CB	1:E:1210:SER:O	2.58	0.41
1:E:1247:LEU:HD12	1:E:1248:GLU:OE1	2.21	0.41
1:G:394:LYS:HB3	1:G:434:ARG:CG	2.48	0.41
1:G:485:ASN:HD22	1:G:485:ASN:H	1.67	0.41
1:G:543:ASN:CG	1:G:574:SER:HB3	2.45	0.41
1:G:978:PHE:CZ	1:G:986:GLU:HB2	2.55	0.41
1:G:1164:LEU:H	1:G:1164:LEU:CD1	2.17	0.41
1:I:485:ASN:HB3	1:I:486:PHE:CE1	2.55	0.41
1:I:1113:SER:N	1:I:1120:LEU:HD13	2.35	0.41
1:I:1176:HIS:CB	1:I:1218:THR:CB	2.98	0.41
2:J:52:ASN:OD1	5:J:201:HEM:HBD1	2.20	0.41
1:K:127:VAL:CG1	1:K:293:GLU:HG2	2.50	0.41
1:K:479:ASP:C	1:K:483:TRP:CD1	2.98	0.41
1:K:1182:ASP:HB3	1:K:1223:ILE:HG23	1.98	0.41
1:M:364:LEU:CD1	1:M:364:LEU:C	2.90	0.41
1:M:452:GLN:O	1:M:456:LEU:HG	2.19	0.41
1:M:485:ASN:HB3	1:M:486:PHE:CE1	2.55	0.41
1:M:507:LEU:CD1	1:M:579:GLN:CG	2.98	0.41
1:M:879:ARG:CG	1:M:921:MET:HE2	2.50	0.41
1:M:922:LEU:CD1	1:M:1241:LEU:CD2	2.87	0.41
1:M:1044:GLN:HG2	1:M:1068:LYS:HZ2	1.85	0.41
1:M:1176:HIS:HB2	1:M:1218:THR:CB	2.38	0.41
1:M:1200:LYS:HG3	1:M:1211:GLN:HA	2.01	0.41
1:A:155:MET:HE2	1:A:155:MET:HB2	1.69	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:283:GLU:CD	1:A:283:GLU:C	2.89	0.41
1:A:403:LEU:HD11	1:A:459:LYS:HZ2	1.85	0.41
1:A:453:LEU:CD1	1:A:453:LEU:C	2.87	0.41
1:A:473:LEU:HD22	1:A:484:TYR:CE1	2.43	0.41
1:A:879:ARG:CG	1:A:921:MET:HE2	2.50	0.41
1:A:1225:VAL:HG11	1:A:1229:PHE:CG	2.55	0.41
1:C:189:LYS:O	1:C:190:GLN:CD	2.64	0.41
1:C:262:LEU:O	1:C:262:LEU:HG	2.19	0.41
1:C:394:LYS:HB3	1:C:434:ARG:CG	2.48	0.41
1:C:484:TYR:HB2	1:C:485:ASN:HD22	1.84	0.41
1:C:507:LEU:HD11	1:C:579:GLN:HG2	2.03	0.41
1:C:543:ASN:CG	1:C:574:SER:HB3	2.45	0.41
1:C:948:LEU:CD1	1:C:957:ASP:CG	2.85	0.41
1:C:1220:LEU:HD23	1:C:1234:THR:HG21	2.01	0.41
1:E:320:SER:HG	1:E:323:VAL:HB	1.85	0.41
1:E:485:ASN:HD22	1:E:485:ASN:H	1.67	0.41
1:E:923:LYS:HA	1:E:923:LYS:HD3	1.82	0.41
1:E:1200:LYS:HG3	1:E:1211:GLN:HA	2.01	0.41
1:E:1245:GLN:HE21	1:E:1245:GLN:HB3	1.59	0.41
1:G:595:LEU:HD13	1:G:1244:LEU:CD1	2.50	0.41
1:G:879:ARG:CG	1:G:921:MET:HE2	2.50	0.41
1:I:206:LEU:CD2	1:I:235:HIS:CD2	3.03	0.41
1:I:406:MET:O	1:I:411:VAL:CG2	2.68	0.41
1:I:457:HIS:CB	1:I:493:SER:HB2	2.44	0.41
1:I:879:ARG:CG	1:I:921:MET:HE2	2.50	0.41
1:I:1200:LYS:HG3	1:I:1211:GLN:HA	2.01	0.41
1:I:1208:GLU:CG	1:I:1211:GLN:HG2	2.49	0.41
1:K:189:LYS:O	1:K:190:GLN:CD	2.64	0.41
1:K:230:LEU:CD2	1:K:234:LYS:CG	2.85	0.41
1:K:403:LEU:HD11	1:K:459:LYS:HZ2	1.86	0.41
1:K:595:LEU:CD2	1:K:1201:TRP:HH2	2.33	0.41
1:K:595:LEU:HD13	1:K:1244:LEU:CG	2.50	0.41
1:K:923:LYS:HD3	1:K:923:LYS:HA	1.82	0.41
1:K:970:SER:HA	1:K:1011:PHE:CD2	2.55	0.41
1:K:1232:TYR:OH	1:K:1234:THR:CB	2.59	0.41
1:K:1247:LEU:HD12	1:K:1248:GLU:OE1	2.21	0.41
1:M:320:SER:OG	1:M:323:VAL:HG23	2.20	0.41
1:M:364:LEU:HA	1:M:364:LEU:HD22	1.82	0.41
1:M:406:MET:O	1:M:411:VAL:CG2	2.68	0.41
1:M:866:LEU:O	1:M:875:VAL:N	2.44	0.41
1:A:429:ASN:O	1:A:432:SER:O	2.39	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:452:GLN:O	1:A:456:LEU:HG	2.20	0.41
1:A:529:TYR:C	1:A:529:TYR:CD1	2.95	0.41
1:A:1030:TRP:HA	1:A:1036:LYS:O	2.20	0.41
1:C:474:SER:HB2	1:C:475:PRO:HD2	2.03	0.41
1:E:279:VAL:O	1:E:279:VAL:HG23	2.20	0.41
1:E:485:ASN:HB3	1:E:486:PHE:CE1	2.55	0.41
1:E:978:PHE:CZ	1:E:986:GLU:HB2	2.55	0.41
1:G:361:TYR:HB3	1:G:366:GLU:HG2	2.02	0.41
1:G:485:ASN:HB3	1:G:486:PHE:CE1	2.55	0.41
1:G:568:LEU:H	1:G:568:LEU:HG	1.50	0.41
1:G:595:LEU:CD2	1:G:1201:TRP:HH2	2.33	0.41
1:G:883:SER:O	1:G:884:TRP:O	2.37	0.41
1:G:1177:GLY:HA2	1:G:1197:GLY:HA3	2.01	0.41
1:I:148:GLY:C	1:I:149:TRP:CD1	2.99	0.41
1:I:174:LEU:O	1:I:178:PHE:HB2	2.20	0.41
1:I:320:SER:OG	1:I:323:VAL:HG23	2.20	0.41
1:I:479:ASP:C	1:I:483:TRP:CD1	2.98	0.41
1:I:595:LEU:CD2	1:I:1244:LEU:CD1	2.48	0.41
1:I:883:SER:O	1:I:884:TRP:O	2.37	0.41
1:I:910:GLU:HB3	1:I:913:LYS:HG3	2.02	0.41
1:I:1225:VAL:HG11	1:I:1229:PHE:CG	2.55	0.41
1:K:361:TYR:HB3	1:K:366:GLU:HG2	2.02	0.41
1:K:416:GLN:CA	1:K:416:GLN:HE21	2.32	0.41
1:K:639:LEU:CD1	1:K:641:VAL:HG23	2.51	0.41
1:K:938:LEU:HD13	1:K:938:LEU:HA	1.85	0.41
1:K:1200:LYS:HG3	1:K:1211:GLN:HA	2.01	0.41
1:M:189:LYS:O	1:M:190:GLN:CD	2.64	0.41
1:M:320:SER:HG	1:M:323:VAL:HB	1.85	0.41
1:M:457:HIS:CB	1:M:493:SER:HB2	2.44	0.41
1:M:493:SER:O	1:M:495:LYS:HG3	2.20	0.41
1:M:639:LEU:CD1	1:M:641:VAL:HG23	2.51	0.41
1:M:1176:HIS:CB	1:M:1218:THR:CB	2.98	0.41
1:M:1247:LEU:HD12	1:M:1248:GLU:OE1	2.21	0.41
2:N:18:HIS:NE2	5:N:201:HEM:C4C	2.88	0.41
1:A:222:GLU:OE2	1:C:204:THR:HG21	2.19	0.41
1:A:235:HIS:HB3	1:A:238:SER:HB3	2.01	0.41
1:A:270:THR:O	1:A:270:THR:OG1	2.32	0.41
1:A:858:ALA:HB2	1:A:864:VAL:HG22	2.03	0.41
1:A:1093:ILE:O	1:A:1093:ILE:HG13	2.21	0.41
2:B:10:PHE:CD1	2:B:14:CYS:HB2	2.55	0.41
2:B:18:HIS:NE2	5:B:201:HEM:C4C	2.88	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:235:HIS:HB3	1:C:238:SER:HB3	2.01	0.41
1:C:485:ASN:HB3	1:C:486:PHE:CE1	2.55	0.41
1:C:1093:ILE:O	1:C:1093:ILE:HG13	2.21	0.41
1:E:148:GLY:C	1:E:149:TRP:CD1	2.99	0.41
1:E:149:TRP:CH2	1:E:273:VAL:CG1	2.98	0.41
1:E:326:LEU:CD2	1:E:353:ILE:HB	2.51	0.41
1:E:441:GLN:O	1:E:445:LEU:HG	2.21	0.41
1:E:862:TYR:O	1:E:862:TYR:CG	2.70	0.41
1:E:1126:HIS:CD2	1:E:1128:GLY:H	2.38	0.41
1:E:1181:THR:HG22	1:E:1182:ASP:N	2.34	0.41
1:E:1213:PHE:HD2	1:E:1214:TYR:H	1.63	0.41
1:E:1233:VAL:O	1:E:1233:VAL:CG2	2.68	0.41
1:G:507:LEU:HD11	1:G:579:GLN:HG2	2.03	0.41
1:G:938:LEU:HA	1:G:938:LEU:HD13	1.85	0.41
5:H:201:HEM:CBC	5:H:201:HEM:CMC	2.88	0.41
1:I:244:ASP:HB3	1:I:245:VAL:H	1.51	0.41
1:I:441:GLN:O	1:I:445:LEU:HG	2.21	0.41
1:I:752:SER:HB2	1:I:753:PRO:HD2	2.03	0.41
1:I:1126:HIS:CD2	1:I:1128:GLY:H	2.38	0.41
2:J:18:HIS:NE2	5:J:201:HEM:C4C	2.88	0.41
1:K:457:HIS:CB	1:K:493:SER:HB2	2.44	0.41
1:K:493:SER:O	1:K:495:LYS:HG3	2.20	0.41
1:K:1030:TRP:HA	1:K:1036:LYS:O	2.20	0.41
1:K:1220:LEU:HD23	1:K:1234:THR:HG21	2.01	0.41
1:M:978:PHE:CZ	1:M:986:GLU:HB2	2.55	0.41
2:N:10:PHE:CD1	2:N:14:CYS:HB2	2.55	0.41
1:A:137:GLN:HG3	1:A:173:LEU:HD22	1.95	0.41
1:A:174:LEU:O	1:A:178:PHE:HB2	2.20	0.41
1:A:189:LYS:O	1:A:190:GLN:CD	2.64	0.41
1:A:326:LEU:CD2	1:A:353:ILE:HB	2.51	0.41
1:A:474:SER:HB2	1:A:475:PRO:HD2	2.03	0.41
1:A:603:ILE:CD1	1:A:1242:TYR:CE1	3.00	0.41
1:A:1200:LYS:HG3	1:A:1211:GLN:HA	2.01	0.41
1:C:260:ILE:O	1:C:260:ILE:HG12	2.20	0.41
1:C:473:LEU:CD1	1:C:480:CYS:HB3	2.47	0.41
1:C:1030:TRP:HA	1:C:1036:LYS:O	2.20	0.41
1:C:1111:ILE:O	1:C:1120:LEU:N	2.54	0.41
1:C:1176:HIS:CB	1:C:1218:THR:CB	2.98	0.41
1:C:1200:LYS:HG3	1:C:1211:GLN:HA	2.01	0.41
1:E:322:LEU:HG	1:E:359:TYR:HE2	1.85	0.41
1:E:473:LEU:CD1	1:E:480:CYS:HB3	2.47	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:479:ASP:C	1:E:483:TRP:CD1	2.99	0.41
1:E:724:PHE:CE1	1:E:740:PHE:HB3	2.56	0.41
1:E:939:ALA:O	1:E:946:LEU:HB2	2.21	0.41
1:E:1225:VAL:HG11	1:E:1229:PHE:CG	2.55	0.41
1:G:279:VAL:O	1:G:279:VAL:HG23	2.20	0.41
1:G:295:LEU:HD22	1:G:295:LEU:HA	1.75	0.41
1:G:320:SER:OG	1:G:323:VAL:HG23	2.20	0.41
1:G:752:SER:HB2	1:G:753:PRO:HD2	2.03	0.41
1:G:1163:HIS:HB3	1:G:1205:VAL:HG13	2.02	0.41
1:I:453:LEU:CD1	1:I:453:LEU:C	2.88	0.41
1:I:507:LEU:CD1	1:I:579:GLN:CG	2.98	0.41
1:I:595:LEU:CD2	1:I:1201:TRP:HH2	2.33	0.41
1:I:1233:VAL:O	1:I:1233:VAL:CG2	2.68	0.41
1:I:1247:LEU:HD12	1:I:1248:GLU:OE1	2.21	0.41
1:K:148:GLY:C	1:K:149:TRP:CD1	2.99	0.41
1:K:322:LEU:HG	1:K:359:TYR:HE2	1.85	0.41
1:K:347:ASN:O	1:K:348:LYS:HB2	2.19	0.41
1:K:815:VAL:O	1:K:821:ILE:HG23	2.21	0.41
1:K:1126:HIS:CD2	1:K:1128:GLY:H	2.38	0.41
1:K:1233:VAL:CB	1:K:1243:ILE:HG12	2.49	0.41
1:M:242:LEU:HD12	1:M:242:LEU:N	2.26	0.41
1:M:479:ASP:C	1:M:483:TRP:CD1	2.98	0.41
1:M:595:LEU:HD13	1:M:1244:LEU:CD1	2.50	0.41
1:M:1233:VAL:CB	1:M:1243:ILE:HG12	2.49	0.41
1:A:246:TRP:HE3	1:A:374:MET:HG2	1.86	0.41
1:A:375:LEU:H	1:A:375:LEU:HG	1.69	0.41
1:A:416:GLN:CA	1:A:416:GLN:HE21	2.32	0.41
1:A:441:GLN:O	1:A:445:LEU:HG	2.21	0.41
1:A:513:LYS:O	1:A:517:VAL:CB	2.62	0.41
1:A:537:ASP:O	1:A:538:CYS:C	2.64	0.41
1:A:543:ASN:CG	1:A:574:SER:HB3	2.45	0.41
1:A:724:PHE:CE1	1:A:740:PHE:HB3	2.56	0.41
1:A:750:ARG:HB2	1:A:806:TRP:HE1	1.85	0.41
1:A:818:LYS:O	1:A:843:ILE:HG13	2.21	0.41
1:A:1072:ILE:O	1:A:1074:THR:N	2.52	0.41
1:A:1228:ASP:CB	1:A:1230:LYS:HG2	2.37	0.41
1:C:295:LEU:HA	1:C:295:LEU:HD22	1.75	0.41
1:C:407:GLU:H	1:C:407:GLU:HG2	1.47	0.41
1:C:409:GLU:CG	1:E:340:TYR:CZ	3.00	0.41
1:C:513:LYS:O	1:C:517:VAL:CB	2.62	0.41
1:C:584:ALA:O	1:C:588:VAL:CG2	2.36	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:595:LEU:CD2	1:C:1201:TRP:HH2	2.33	0.41
1:C:910:GLU:HB3	1:C:913:LYS:HG3	2.02	0.41
1:C:924:GLN:H	1:C:1238:LEU:HD21	1.86	0.41
1:C:939:ALA:O	1:C:946:LEU:HB2	2.21	0.41
1:C:1225:VAL:HG11	1:C:1229:PHE:CG	2.55	0.41
2:D:10:PHE:CD1	2:D:14:CYS:HB2	2.55	0.41
1:E:146:GLU:OE1	1:E:146:GLU:HA	2.21	0.41
1:E:206:LEU:CD2	1:E:235:HIS:CD2	3.03	0.41
1:E:327:ILE:HD13	1:E:327:ILE:HA	1.82	0.41
1:E:474:SER:HB2	1:E:475:PRO:HD2	2.02	0.41
1:E:750:ARG:HB2	1:E:806:TRP:HE1	1.85	0.41
1:E:815:VAL:O	1:E:821:ILE:HG23	2.21	0.41
1:E:921:MET:HE3	1:E:921:MET:HB3	1.79	0.41
1:E:970:SER:HA	1:E:1011:PHE:CD2	2.55	0.41
1:E:1093:ILE:O	1:E:1093:ILE:HG13	2.21	0.41
2:F:10:PHE:CD1	2:F:14:CYS:HB2	2.55	0.41
1:G:246:TRP:HE3	1:G:374:MET:HG2	1.86	0.41
1:G:537:ASP:O	1:G:538:CYS:C	2.64	0.41
1:G:543:ASN:CB	1:G:576:VAL:HG23	2.51	0.41
1:G:724:PHE:CE1	1:G:740:PHE:HB3	2.56	0.41
1:G:858:ALA:HB2	1:G:864:VAL:HG22	2.03	0.41
1:G:910:GLU:HB3	1:G:913:LYS:HG3	2.02	0.41
1:G:939:ALA:O	1:G:946:LEU:HB2	2.21	0.41
1:I:543:ASN:CB	1:I:576:VAL:HG23	2.51	0.41
1:I:815:VAL:O	1:I:821:ILE:HG23	2.21	0.41
1:I:970:SER:HA	1:I:1011:PHE:CD2	2.55	0.41
1:I:1056:SER:O	1:I:1072:ILE:N	2.31	0.41
1:I:1111:ILE:O	1:I:1120:LEU:N	2.54	0.41
1:K:500:LEU:HD23	1:K:533:LEU:HD12	2.00	0.41
1:K:1160:GLU:O	1:K:1162:LEU:N	2.49	0.41
1:K:1217:GLY:HA3	1:K:1236:ASP:O	2.21	0.41
2:L:10:PHE:CD1	2:L:14:CYS:HB2	2.55	0.41
1:M:148:GLY:C	1:M:149:TRP:CD1	2.99	0.41
1:M:231:MET:HE3	1:M:231:MET:HB2	1.77	0.41
1:M:244:ASP:HB3	1:M:245:VAL:H	1.51	0.41
1:M:295:LEU:HD22	1:M:295:LEU:HA	1.75	0.41
1:M:529:TYR:CA	1:M:532:ILE:CG2	2.98	0.41
1:M:724:PHE:CE1	1:M:740:PHE:HB3	2.56	0.41
1:M:924:GLN:H	1:M:1238:LEU:HD21	1.86	0.41
1:M:997:GLN:HB3	1:M:1030:TRP:HH2	1.86	0.41
1:M:1217:GLY:HA3	1:M:1236:ASP:O	2.21	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:1228:ASP:CB	1:M:1230:LYS:HG2	2.37	0.41
1:A:140:LEU:HD12	1:A:173:LEU:HD11	2.03	0.41
1:A:146:GLU:OE1	1:A:146:GLU:HA	2.21	0.41
1:A:456:LEU:C	1:A:458:LYS:N	2.79	0.41
1:A:494:ALA:O	1:A:495:LYS:CB	2.62	0.41
1:A:529:TYR:CA	1:A:532:ILE:CG2	2.98	0.41
1:A:543:ASN:CB	1:A:576:VAL:HG23	2.51	0.41
1:A:560:PHE:HA	1:A:561:PRO:HD2	1.73	0.41
1:A:581:LYS:HD2	1:A:581:LYS:HA	1.68	0.41
1:A:639:LEU:CD1	1:A:641:VAL:HG23	2.51	0.41
1:A:939:ALA:O	1:A:946:LEU:HB2	2.21	0.41
1:C:146:GLU:OE1	1:C:146:GLU:HA	2.21	0.41
1:C:148:GLY:C	1:C:149:TRP:CD1	2.99	0.41
1:C:179:PRO:HD3	1:C:237:ARG:HH12	1.84	0.41
1:C:206:LEU:CD2	1:C:235:HIS:CD2	3.03	0.41
1:C:429:ASN:O	1:C:432:SER:O	2.39	0.41
1:C:441:GLN:O	1:C:445:LEU:HG	2.21	0.41
1:C:479:ASP:C	1:C:483:TRP:CD1	2.99	0.41
1:C:529:TYR:CA	1:C:532:ILE:CG2	2.98	0.41
1:C:543:ASN:CB	1:C:576:VAL:HG23	2.51	0.41
1:C:595:LEU:CD2	1:C:1244:LEU:CD1	2.48	0.41
1:C:595:LEU:HD13	1:C:1244:LEU:CD1	2.50	0.41
1:C:724:PHE:CE1	1:C:740:PHE:HB3	2.56	0.41
1:C:750:ARG:HB2	1:C:806:TRP:HE1	1.85	0.41
1:C:815:VAL:O	1:C:821:ILE:HG23	2.21	0.41
1:C:868:ASN:HB2	1:C:875:VAL:HG23	2.03	0.41
1:C:1163:HIS:HB3	1:C:1205:VAL:HG13	2.02	0.41
1:C:1181:THR:HG22	1:C:1182:ASP:N	2.34	0.41
1:E:140:LEU:HD12	1:E:173:LEU:HD11	2.03	0.41
1:E:429:ASN:O	1:E:432:SER:O	2.39	0.41
1:E:516:LEU:HA	1:E:516:LEU:HD12	1.83	0.41
1:E:537:ASP:O	1:E:538:CYS:C	2.64	0.41
1:E:543:ASN:CB	1:E:576:VAL:HG23	2.51	0.41
1:E:858:ALA:HB2	1:E:864:VAL:HG22	2.03	0.41
1:E:868:ASN:HB2	1:E:875:VAL:HG23	2.03	0.41
1:E:879:ARG:CG	1:E:921:MET:HE2	2.50	0.41
1:E:1163:HIS:HB3	1:E:1205:VAL:HG13	2.02	0.41
1:E:1220:LEU:HD23	1:E:1234:THR:HG21	2.01	0.41
1:E:1226:SER:O	1:E:1227:PRO:C	2.64	0.41
1:G:146:GLU:OE1	1:G:146:GLU:HA	2.21	0.41
1:G:209:ASP:O	1:G:210:GLU:HB2	2.21	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:529:TYR:CA	1:G:532:ILE:CG2	2.98	0.41
1:G:603:ILE:O	1:G:604:THR:HB	2.21	0.41
1:G:786:PHE:CE1	1:G:819:ASN:HB2	2.55	0.41
1:G:815:VAL:O	1:G:821:ILE:HG23	2.21	0.41
1:G:868:ASN:HB2	1:G:875:VAL:HG23	2.03	0.41
1:G:921:MET:HB3	1:G:921:MET:HE3	1.79	0.41
1:I:230:LEU:CD2	1:I:234:LYS:CG	2.85	0.41
1:I:259:GLN:H	1:I:259:GLN:HG2	1.56	0.41
1:I:322:LEU:HG	1:I:359:TYR:HE2	1.85	0.41
1:I:485:ASN:HD22	1:I:485:ASN:H	1.66	0.41
1:I:494:ALA:O	1:I:495:LYS:CB	2.62	0.41
1:I:507:LEU:HD12	1:I:579:GLN:HG2	2.03	0.41
1:I:507:LEU:HD11	1:I:579:GLN:HG2	2.03	0.41
1:I:543:ASN:CG	1:I:574:SER:HB3	2.45	0.41
1:I:551:ASN:OD1	1:I:555:LEU:HG	2.21	0.41
1:I:603:ILE:O	1:I:604:THR:HB	2.21	0.41
1:I:724:PHE:CE1	1:I:740:PHE:HB3	2.56	0.41
1:I:1030:TRP:HA	1:I:1036:LYS:O	2.20	0.41
1:I:1177:GLY:HA2	1:I:1197:GLY:HA3	2.01	0.41
1:I:1217:GLY:HA3	1:I:1236:ASP:O	2.21	0.41
1:K:260:ILE:O	1:K:260:ILE:HG12	2.20	0.41
1:K:427:ASP:HB2	1:K:434:ARG:O	2.21	0.41
1:K:529:TYR:CA	1:K:532:ILE:CG2	2.98	0.41
1:K:584:ALA:O	1:K:588:VAL:CG2	2.36	0.41
1:K:875:VAL:CG1	1:K:915:CYS:SG	2.94	0.41
2:L:52:ASN:OD1	5:L:201:HEM:HBD1	2.20	0.41
1:M:149:TRP:CH2	1:M:273:VAL:CG1	2.98	0.41
1:M:174:LEU:O	1:M:178:PHE:HB2	2.20	0.41
1:M:283:GLU:CD	1:M:283:GLU:C	2.89	0.41
1:M:382:TYR:O	1:M:383:TYR:C	2.64	0.41
1:M:429:ASN:O	1:M:432:SER:O	2.39	0.41
1:M:434:ARG:HG3	1:M:434:ARG:HH21	1.86	0.41
1:M:485:ASN:C	1:M:486:PHE:CD1	2.99	0.41
1:M:549:SER:OG	1:M:608:ARG:O	2.37	0.41
1:M:553:HIS:CG	1:M:554:LEU:N	2.88	0.41
1:M:750:ARG:HB2	1:M:806:TRP:HE1	1.85	0.41
1:M:1093:ILE:O	1:M:1093:ILE:HG13	2.21	0.41
1:M:1111:ILE:O	1:M:1120:LEU:N	2.54	0.41
1:A:209:ASP:O	1:A:210:GLU:HB2	2.21	0.41
1:A:294:ILE:HG21	1:A:324:VAL:HG12	2.00	0.41
1:A:449:ASN:HD22	1:A:449:ASN:HA	1.65	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:902:ASP:HB3	2:B:72:LYS:HZ1	1.85	0.41
1:A:1233:VAL:CB	1:A:1243:ILE:HG12	2.49	0.41
2:B:52:ASN:OD1	5:B:201:HEM:HBD1	2.20	0.41
1:C:139:LYS:O	1:C:142:LYS:HB3	2.21	0.41
1:C:140:LEU:HD12	1:C:173:LEU:HD11	2.03	0.41
1:C:612:ARG:HD3	1:C:614:HIS:O	2.21	0.41
1:C:821:ILE:HD11	1:C:857:VAL:HG21	2.03	0.41
1:C:921:MET:HE3	1:C:921:MET:HB3	1.79	0.41
1:C:978:PHE:CZ	1:C:986:GLU:HB2	2.55	0.41
1:C:1177:GLY:HA2	1:C:1197:GLY:HA3	2.01	0.41
1:C:1200:LYS:HG3	1:C:1211:GLN:HB2	2.03	0.41
1:C:1247:LEU:HD12	1:C:1248:GLU:OE1	2.21	0.41
1:E:139:LYS:O	1:E:142:LYS:HB3	2.21	0.41
1:E:179:PRO:HD3	1:E:237:ARG:HH12	1.84	0.41
1:E:374:MET:CE	1:E:374:MET:CA	2.85	0.41
1:E:389:LEU:HD21	1:E:395:VAL:HG21	2.02	0.41
1:E:434:ARG:HG3	1:E:434:ARG:HH21	1.86	0.41
1:E:493:SER:O	1:E:495:LYS:HG3	2.20	0.41
1:E:752:SER:HB2	1:E:753:PRO:HD2	2.03	0.41
1:E:818:LYS:O	1:E:843:ILE:HG13	2.21	0.41
1:G:189:LYS:O	1:G:190:GLN:CD	2.64	0.41
1:G:382:TYR:O	1:G:383:TYR:C	2.64	0.41
1:G:391:LYS:H	1:G:391:LYS:HG2	1.60	0.41
1:G:479:ASP:C	1:G:483:TRP:CD1	2.98	0.41
1:G:507:LEU:HD12	1:G:579:GLN:HG2	2.03	0.41
1:G:970:SER:HA	1:G:1011:PHE:CD2	2.55	0.41
1:G:1089:LEU:H	1:G:1105:ALA:HB2	1.86	0.41
1:G:1126:HIS:CD2	1:G:1128:GLY:H	2.38	0.41
1:G:1225:VAL:HG11	1:G:1229:PHE:CG	2.55	0.41
1:G:1226:SER:O	1:G:1227:PRO:C	2.64	0.41
1:I:189:LYS:O	1:I:190:GLN:CD	2.64	0.41
1:I:260:ILE:O	1:I:260:ILE:HG12	2.20	0.41
1:I:326:LEU:CD2	1:I:353:ILE:HB	2.51	0.41
1:I:347:ASN:C	1:I:348:LYS:CG	2.92	0.41
1:I:361:TYR:HB3	1:I:366:GLU:HG2	2.02	0.41
1:I:427:ASP:HB2	1:I:434:ARG:O	2.21	0.41
1:I:553:HIS:CG	1:I:554:LEU:N	2.88	0.41
1:I:639:LEU:CD1	1:I:641:VAL:HG23	2.51	0.41
2:J:14:CYS:CB	5:J:201:HEM:CAB	2.96	0.41
1:K:137:GLN:HE21	1:K:173:LEU:HD22	1.86	0.41
1:K:279:VAL:O	1:K:279:VAL:HG23	2.20	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:441:GLN:O	1:K:445:LEU:HG	2.21	0.41
1:K:453:LEU:CD1	1:K:453:LEU:C	2.87	0.41
1:K:474:SER:HB2	1:K:475:PRO:HD2	2.02	0.41
1:K:505:PHE:CE2	1:K:575:GLU:OE1	2.55	0.41
1:K:537:ASP:O	1:K:538:CYS:C	2.64	0.41
1:K:543:ASN:CB	1:K:576:VAL:HG23	2.51	0.41
1:K:752:SER:HB2	1:K:753:PRO:HD2	2.03	0.41
1:K:910:GLU:HB3	1:K:913:LYS:HG3	2.02	0.41
1:M:146:GLU:OE1	1:M:146:GLU:HA	2.21	0.41
1:M:246:TRP:HE3	1:M:374:MET:HG2	1.86	0.41
1:M:500:LEU:HD23	1:M:533:LEU:HD12	2.00	0.41
1:M:818:LYS:O	1:M:843:ILE:HG13	2.21	0.41
1:M:858:ALA:HB2	1:M:864:VAL:HG22	2.03	0.41
1:M:1220:LEU:HD23	1:M:1234:THR:HG21	2.01	0.41
1:A:149:TRP:CZ3	1:A:251:LEU:HB3	2.56	0.40
1:A:434:ARG:HG3	1:A:434:ARG:HH21	1.86	0.40
1:A:639:LEU:H	1:A:653:ILE:HG22	1.79	0.40
1:A:978:PHE:CZ	1:A:986:GLU:HB2	2.55	0.40
1:A:1247:LEU:HD12	1:A:1248:GLU:OE1	2.21	0.40
1:C:270:THR:O	1:C:270:THR:OG1	2.32	0.40
1:C:651:LEU:HD22	1:C:651:LEU:HA	1.79	0.40
1:C:1113:SER:N	1:C:1120:LEU:HD13	2.35	0.40
2:D:18:HIS:NE2	5:D:201:HEM:C4C	2.88	0.40
1:E:543:ASN:CG	1:E:574:SER:HB3	2.45	0.40
1:E:551:ASN:OD1	1:E:555:LEU:HG	2.21	0.40
1:E:821:ILE:HD11	1:E:857:VAL:HG21	2.03	0.40
1:E:1176:HIS:CB	1:E:1218:THR:CB	2.98	0.40
1:E:1217:GLY:HA3	1:E:1236:ASP:O	2.21	0.40
1:E:1232:TYR:HD2	1:E:1244:LEU:HD21	1.87	0.40
1:G:140:LEU:HD12	1:G:173:LEU:HD11	2.03	0.40
1:G:148:GLY:C	1:G:149:TRP:CD1	2.99	0.40
1:G:394:LYS:CB	1:G:434:ARG:CB	2.80	0.40
1:G:427:ASP:HB2	1:G:434:ARG:O	2.21	0.40
1:G:441:GLN:O	1:G:445:LEU:HG	2.21	0.40
1:G:595:LEU:HD21	1:G:1201:TRP:HH2	1.87	0.40
1:G:999:ARG:HA	1:G:999:ARG:HD2	1.73	0.40
1:I:146:GLU:OE1	1:I:146:GLU:HA	2.21	0.40
1:I:562:ASN:HD22	1:I:562:ASN:HA	1.75	0.40
1:I:868:ASN:HB2	1:I:875:VAL:HG23	2.03	0.40
1:K:209:ASP:O	1:K:210:GLU:HB2	2.21	0.40
1:K:231:MET:HE3	1:K:231:MET:HB2	1.77	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:326:LEU:CD2	1:K:353:ILE:HB	2.51	0.40
1:K:407:GLU:H	1:K:407:GLU:HG2	1.47	0.40
1:K:1111:ILE:O	1:K:1120:LEU:N	2.54	0.40
1:K:1113:SER:N	1:K:1120:LEU:HD13	2.35	0.40
1:K:1140:THR:OG1	1:K:1155:ASN:OD1	2.31	0.40
1:M:543:ASN:CB	1:M:576:VAL:HG23	2.51	0.40
1:M:547:PHE:O	1:M:551:ASN:ND2	2.50	0.40
1:M:595:LEU:CD2	1:M:1201:TRP:HH2	2.33	0.40
1:M:1126:HIS:CD2	1:M:1128:GLY:H	2.38	0.40
1:A:138:GLN:HE21	1:A:139:LYS:CA	2.35	0.40
1:A:551:ASN:OD1	1:A:555:LEU:HG	2.21	0.40
1:C:246:TRP:HE3	1:C:374:MET:HG2	1.86	0.40
1:C:434:ARG:HG3	1:C:434:ARG:HH21	1.86	0.40
1:C:551:ASN:OD1	1:C:555:LEU:HG	2.21	0.40
1:C:639:LEU:H	1:C:653:ILE:HG22	1.79	0.40
1:C:1089:LEU:H	1:C:1105:ALA:HB2	1.86	0.40
1:C:1226:SER:O	1:C:1227:PRO:C	2.64	0.40
1:E:485:ASN:HB2	1:E:486:PHE:CD1	2.57	0.40
1:E:603:ILE:CD1	1:E:1242:TYR:CE1	3.00	0.40
1:E:1200:LYS:HG3	1:E:1211:GLN:HB2	2.03	0.40
1:E:1212:THR:OG1	1:E:1213:PHE:N	2.53	0.40
1:G:149:TRP:CZ3	1:G:251:LEU:HB3	2.56	0.40
1:G:389:LEU:HD21	1:G:395:VAL:HG11	2.03	0.40
1:G:507:LEU:CD1	1:G:579:GLN:CG	2.98	0.40
1:G:563:ILE:O	1:G:567:GLY:N	2.51	0.40
1:G:612:ARG:HD3	1:G:614:HIS:O	2.21	0.40
1:G:923:LYS:HD3	1:G:923:LYS:HA	1.82	0.40
1:G:1225:VAL:CG1	1:G:1229:PHE:CE1	3.01	0.40
1:I:330:LEU:HD12	1:I:330:LEU:HA	1.74	0.40
1:I:389:LEU:HD21	1:I:395:VAL:HG11	2.03	0.40
1:I:416:GLN:HE21	1:I:416:GLN:C	2.25	0.40
1:I:529:TYR:CA	1:I:532:ILE:CG2	2.98	0.40
1:I:534:ASP:O	1:I:538:CYS:SG	2.68	0.40
1:I:595:LEU:HD21	1:I:1201:TRP:HH2	1.87	0.40
1:I:939:ALA:O	1:I:946:LEU:HB2	2.21	0.40
1:K:295:LEU:HD22	1:K:295:LEU:HA	1.75	0.40
1:K:303:LYS:H	1:K:303:LYS:HG2	1.67	0.40
1:K:485:ASN:HB2	1:K:486:PHE:CD1	2.57	0.40
1:K:516:LEU:HD12	1:K:516:LEU:HA	1.83	0.40
1:K:549:SER:OG	1:K:608:ARG:O	2.37	0.40
1:K:595:LEU:HD21	1:K:1201:TRP:HH2	1.86	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:603:ILE:O	1:K:604:THR:HB	2.21	0.40
1:M:140:LEU:HD12	1:M:173:LEU:HD11	2.03	0.40
1:M:326:LEU:CD2	1:M:353:ILE:HB	2.50	0.40
1:M:474:SER:HB2	1:M:475:PRO:HD2	2.02	0.40
1:M:485:ASN:HB2	1:M:486:PHE:CD1	2.57	0.40
1:M:815:VAL:O	1:M:821:ILE:HG23	2.21	0.40
1:M:1212:THR:OG1	1:M:1213:PHE:N	2.53	0.40
1:A:147:PRO:HB3	1:A:257:GLN:O	2.21	0.40
1:A:148:GLY:C	1:A:149:TRP:CD1	2.99	0.40
1:A:485:ASN:C	1:A:486:PHE:CD1	2.99	0.40
1:A:507:LEU:HD12	1:A:579:GLN:HG2	2.03	0.40
1:A:612:ARG:HD3	1:A:614:HIS:O	2.21	0.40
1:A:997:GLN:HB3	1:A:1030:TRP:HH2	1.86	0.40
1:A:999:ARG:HA	1:A:999:ARG:HD2	1.74	0.40
1:A:1113:SER:N	1:A:1120:LEU:HD13	2.35	0.40
1:A:1217:GLY:HA3	1:A:1236:ASP:O	2.21	0.40
1:C:456:LEU:C	1:C:458:LYS:N	2.79	0.40
1:C:473:LEU:HD23	1:C:484:TYR:HE1	1.80	0.40
1:C:485:ASN:HB2	1:C:486:PHE:CD1	2.57	0.40
1:C:560:PHE:HA	1:C:561:PRO:HD2	1.73	0.40
1:C:603:ILE:O	1:C:604:THR:HB	2.21	0.40
1:C:639:LEU:CD1	1:C:641:VAL:HG23	2.51	0.40
1:C:858:ALA:HB2	1:C:864:VAL:HG22	2.03	0.40
1:C:1217:GLY:HA3	1:C:1236:ASP:O	2.21	0.40
1:C:1239:GLY:O	1:C:1240:ILE:HD12	2.21	0.40
1:E:149:TRP:CZ3	1:E:251:LEU:HB3	2.57	0.40
1:G:137:GLN:HE21	1:G:173:LEU:HD22	1.86	0.40
1:G:195:LEU:HD12	1:G:195:LEU:C	2.36	0.40
1:G:244:ASP:OD1	1:G:246:TRP:NE1	2.50	0.40
1:G:453:LEU:CD1	1:G:453:LEU:C	2.88	0.40
1:G:875:VAL:CG1	1:G:915:CYS:SG	2.94	0.40
1:G:1046:THR:CG2	1:G:1063:PHE:HE2	2.34	0.40
1:G:1217:GLY:HA3	1:G:1236:ASP:O	2.21	0.40
1:I:364:LEU:HD13	1:I:368:MET:HE2	2.02	0.40
1:I:572:GLU:HB3	1:I:573:THR:H	1.70	0.40
1:I:597:TRP:CZ3	1:I:600:LYS:HA	2.55	0.40
1:I:750:ARG:HB2	1:I:806:TRP:HE1	1.85	0.40
2:J:18:HIS:CE1	2:J:30:PRO:CD	3.00	0.40
1:K:239:LEU:HD12	1:K:240:LEU:H	1.77	0.40
1:K:270:THR:O	1:K:270:THR:OG1	2.32	0.40
1:K:327:ILE:CD1	1:K:353:ILE:CG2	3.00	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:429:ASN:O	1:K:432:SER:O	2.39	0.40
1:K:485:ASN:C	1:K:486:PHE:CD1	2.99	0.40
1:K:507:LEU:CD1	1:K:579:GLN:CG	2.98	0.40
1:K:507:LEU:HD11	1:K:579:GLN:HG2	2.03	0.40
1:K:543:ASN:CG	1:K:574:SER:HB3	2.45	0.40
1:K:724:PHE:CE1	1:K:740:PHE:HB3	2.56	0.40
1:K:997:GLN:HB3	1:K:1030:TRP:HH2	1.86	0.40
1:K:1070:TRP:HB3	1:K:1071:ASN:H	1.74	0.40
1:M:279:VAL:O	1:M:279:VAL:HG23	2.20	0.40
1:M:516:LEU:HA	1:M:516:LEU:HD12	1.83	0.40
1:M:595:LEU:HD13	1:M:1244:LEU:CG	2.50	0.40
1:M:595:LEU:HD21	1:M:1201:TRP:HH2	1.87	0.40
1:M:597:TRP:CZ3	1:M:600:LYS:HA	2.55	0.40
1:M:612:ARG:HD3	1:M:614:HIS:O	2.21	0.40
1:M:736:ARG:NH1	1:M:772:ALA:O	2.39	0.40
1:M:938:LEU:HD13	1:M:938:LEU:HA	1.85	0.40
1:M:939:ALA:O	1:M:946:LEU:HB2	2.21	0.40
1:M:1167:PRO:C	1:M:1202:TRP:CE2	3.00	0.40
1:M:1232:TYR:HD2	1:M:1244:LEU:HD21	1.87	0.40
1:A:868:ASN:HB2	1:A:875:VAL:HG23	2.03	0.40
1:A:1111:ILE:O	1:A:1120:LEU:N	2.54	0.40
1:A:1239:GLY:O	1:A:1240:ILE:HD12	2.21	0.40
1:C:147:PRO:HB3	1:C:257:GLN:O	2.21	0.40
1:C:251:LEU:CD1	1:C:269:VAL:HG12	2.52	0.40
1:C:565:GLN:CD	1:C:568:LEU:HD11	2.46	0.40
1:C:879:ARG:CG	1:C:921:MET:HE2	2.50	0.40
1:C:1056:SER:O	1:C:1072:ILE:N	2.31	0.40
1:E:137:GLN:HE21	1:E:173:LEU:HD22	1.86	0.40
1:E:189:LYS:O	1:E:190:GLN:CD	2.64	0.40
1:E:348:LYS:HZ2	1:E:443:ASP:CG	2.29	0.40
1:E:382:TYR:O	1:E:383:TYR:C	2.64	0.40
1:E:485:ASN:C	1:E:486:PHE:CD1	2.99	0.40
1:E:507:LEU:HD11	1:E:579:GLN:HG2	2.03	0.40
1:E:529:TYR:CA	1:E:532:ILE:CG2	2.98	0.40
1:E:565:GLN:HE22	1:E:568:LEU:CD1	2.34	0.40
1:E:910:GLU:HB3	1:E:913:LYS:HG3	2.02	0.40
1:G:139:LYS:O	1:G:142:LYS:HB3	2.21	0.40
1:G:486:PHE:N	1:G:486:PHE:HD1	2.19	0.40
1:G:551:ASN:OD1	1:G:555:LEU:HG	2.21	0.40
1:G:818:LYS:O	1:G:843:ILE:HG13	2.21	0.40
1:G:1044:GLN:HG2	1:G:1068:LYS:HZ2	1.86	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1171:GLU:CG	1:G:1172:GLY:N	2.68	0.40
1:G:1239:GLY:O	1:G:1240:ILE:HD12	2.21	0.40
2:H:18:HIS:CE1	2:H:30:PRO:CD	3.00	0.40
1:I:149:TRP:CZ3	1:I:251:LEU:HB3	2.56	0.40
1:I:161:SER:CB	3:I:1301:DTP:O2A	2.65	0.40
1:I:882:LEU:O	1:I:883:SER:CB	2.70	0.40
1:I:997:GLN:HB3	1:I:1030:TRP:HH2	1.86	0.40
1:I:1239:GLY:O	1:I:1240:ILE:HD12	2.21	0.40
1:K:146:GLU:OE1	1:K:146:GLU:HA	2.21	0.40
1:K:146:GLU:O	1:K:147:PRO:C	2.60	0.40
1:K:149:TRP:CZ3	1:K:251:LEU:HB3	2.56	0.40
1:K:283:GLU:CD	1:K:283:GLU:C	2.89	0.40
1:K:486:PHE:N	1:K:486:PHE:HD1	2.19	0.40
1:K:858:ALA:HB2	1:K:864:VAL:HG22	2.03	0.40
1:K:1089:LEU:H	1:K:1105:ALA:HB2	1.86	0.40
1:K:1167:PRO:C	1:K:1202:TRP:CE2	3.00	0.40
1:M:364:LEU:HD13	1:M:368:MET:HE2	2.02	0.40
1:M:427:ASP:HB2	1:M:434:ARG:O	2.21	0.40
1:M:456:LEU:C	1:M:458:LYS:N	2.79	0.40
1:M:1239:GLY:O	1:M:1240:ILE:HD12	2.21	0.40
1:A:279:VAL:O	1:A:279:VAL:HG23	2.20	0.40
1:A:322:LEU:C	1:A:322:LEU:CD2	2.91	0.40
1:A:393:VAL:HG23	1:A:393:VAL:O	2.22	0.40
1:A:407:GLU:O	1:A:411:VAL:HG23	2.22	0.40
1:A:485:ASN:HB2	1:A:486:PHE:CD1	2.57	0.40
1:A:507:LEU:HD11	1:A:579:GLN:HG2	2.03	0.40
1:A:821:ILE:HD11	1:A:857:VAL:HG21	2.03	0.40
1:A:924:GLN:N	1:A:1238:LEU:HD21	2.37	0.40
1:A:1056:SER:O	1:A:1072:ILE:HG12	2.22	0.40
1:A:1089:LEU:H	1:A:1105:ALA:HB2	1.86	0.40
1:C:137:GLN:HE21	1:C:173:LEU:HD22	1.86	0.40
1:C:209:ASP:O	1:C:210:GLU:HB2	2.21	0.40
1:C:485:ASN:C	1:C:486:PHE:CD1	3.00	0.40
1:E:456:LEU:C	1:E:458:LYS:N	2.79	0.40
1:E:507:LEU:HD12	1:E:579:GLN:HG2	2.03	0.40
1:E:639:LEU:CD1	1:E:641:VAL:HG23	2.51	0.40
1:E:924:GLN:N	1:E:1238:LEU:HD21	2.37	0.40
1:E:1167:PRO:C	1:E:1202:TRP:CE2	3.00	0.40
1:E:1239:GLY:O	1:E:1240:ILE:HD12	2.21	0.40
1:G:283:GLU:CD	1:G:283:GLU:C	2.89	0.40
1:G:326:LEU:CD2	1:G:353:ILE:HB	2.51	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:429:ASN:O	1:G:432:SER:O	2.39	0.40
1:G:639:LEU:CD1	1:G:641:VAL:HG23	2.51	0.40
1:G:821:ILE:HD11	1:G:857:VAL:HG21	2.03	0.40
1:G:884:TRP:CH2	2:H:81:ILE:CD1	3.05	0.40
1:G:997:GLN:HB3	1:G:1030:TRP:HH2	1.86	0.40
1:G:1093:ILE:O	1:G:1093:ILE:HG13	2.21	0.40
1:I:139:LYS:O	1:I:142:LYS:HB3	2.21	0.40
1:I:283:GLU:CD	1:I:283:GLU:C	2.89	0.40
1:I:304:ALA:C	1:I:306:LEU:N	2.80	0.40
1:I:429:ASN:HD22	1:I:429:ASN:HA	1.66	0.40
1:I:595:LEU:HD13	1:I:1244:LEU:CG	2.50	0.40
1:K:246:TRP:HE3	1:K:374:MET:HG2	1.86	0.40
1:K:409:GLU:CG	1:M:340:TYR:CZ	3.00	0.40
1:K:551:ASN:OD1	1:K:555:LEU:HG	2.21	0.40
1:K:562:ASN:HD22	1:K:562:ASN:HA	1.76	0.40
1:K:1239:GLY:O	1:K:1240:ILE:HD12	2.21	0.40
1:M:270:THR:O	1:M:270:THR:OG1	2.32	0.40
1:M:429:ASN:HD22	1:M:429:ASN:HA	1.66	0.40
1:M:441:GLN:O	1:M:445:LEU:HG	2.21	0.40
1:M:507:LEU:HD11	1:M:579:GLN:HG2	2.03	0.40
1:M:866:LEU:CD2	1:M:914:VAL:HB	2.43	0.40
1:M:1046:THR:CG2	1:M:1063:PHE:HE2	2.34	0.40
1:M:1226:SER:O	1:M:1227:PRO:C	2.64	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	1142/1260 (91%)	999 (88%)	98 (9%)	45 (4%)	2	20
1	C	1142/1260 (91%)	999 (88%)	98 (9%)	45 (4%)	2	20

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	E	1142/1260 (91%)	999 (88%)	98 (9%)	45 (4%)	2	20
1	G	1142/1260 (91%)	999 (88%)	98 (9%)	45 (4%)	2	20
1	I	1142/1260 (91%)	999 (88%)	98 (9%)	45 (4%)	2	20
1	K	1142/1260 (91%)	999 (88%)	97 (8%)	46 (4%)	2	20
1	M	1142/1260 (91%)	999 (88%)	97 (8%)	46 (4%)	2	20
2	B	102/105 (97%)	100 (98%)	2 (2%)	0	100	100
2	D	102/105 (97%)	100 (98%)	2 (2%)	0	100	100
2	F	102/105 (97%)	100 (98%)	2 (2%)	0	100	100
2	H	102/105 (97%)	100 (98%)	2 (2%)	0	100	100
2	J	102/105 (97%)	100 (98%)	2 (2%)	0	100	100
2	L	102/105 (97%)	100 (98%)	2 (2%)	0	100	100
2	N	102/105 (97%)	100 (98%)	2 (2%)	0	100	100
All	All	8708/9555 (91%)	7693 (88%)	698 (8%)	317 (4%)	4	22

All (317) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	147	PRO
1	A	557	ARG
1	A	560	PHE
1	A	562	ASN
1	A	645	GLU
1	A	795	GLU
1	A	841	SER
1	A	885	VAL
1	A	904	GLN
1	A	932	GLU
1	A	1174	ALA
1	A	1212	THR
1	A	1240	ILE
1	C	147	PRO
1	C	557	ARG
1	C	560	PHE
1	C	562	ASN
1	C	645	GLU
1	C	795	GLU
1	C	841	SER
1	C	885	VAL

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	C	904	GLN
1	C	932	GLU
1	C	1174	ALA
1	C	1212	THR
1	C	1240	ILE
1	E	147	PRO
1	E	557	ARG
1	E	560	PHE
1	E	562	ASN
1	E	645	GLU
1	E	795	GLU
1	E	841	SER
1	E	885	VAL
1	E	904	GLN
1	E	932	GLU
1	E	1174	ALA
1	E	1212	THR
1	E	1240	ILE
1	G	147	PRO
1	G	557	ARG
1	G	560	PHE
1	G	562	ASN
1	G	645	GLU
1	G	795	GLU
1	G	841	SER
1	G	885	VAL
1	G	904	GLN
1	G	932	GLU
1	G	1174	ALA
1	G	1212	THR
1	G	1240	ILE
1	I	147	PRO
1	I	557	ARG
1	I	560	PHE
1	I	562	ASN
1	I	645	GLU
1	I	795	GLU
1	I	841	SER
1	I	885	VAL
1	I	904	GLN
1	I	932	GLU
1	I	1174	ALA

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	I	1212	THR
1	I	1240	ILE
1	K	147	PRO
1	K	557	ARG
1	K	560	PHE
1	K	562	ASN
1	K	645	GLU
1	K	795	GLU
1	K	841	SER
1	K	885	VAL
1	K	904	GLN
1	K	932	GLU
1	K	1174	ALA
1	K	1212	THR
1	K	1240	ILE
1	M	147	PRO
1	M	557	ARG
1	M	560	PHE
1	M	562	ASN
1	M	645	GLU
1	M	795	GLU
1	M	841	SER
1	M	885	VAL
1	M	904	GLN
1	M	932	GLU
1	M	1174	ALA
1	M	1212	THR
1	M	1240	ILE
1	A	245	VAL
1	A	558	GLN
1	A	573	THR
1	A	884	TRP
1	A	1214	TYR
1	C	245	VAL
1	C	558	GLN
1	C	573	THR
1	C	884	TRP
1	C	1214	TYR
1	E	245	VAL
1	E	558	GLN
1	E	573	THR
1	E	884	TRP

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	E	1214	TYR
1	G	245	VAL
1	G	558	GLN
1	G	573	THR
1	G	884	TRP
1	G	1214	TYR
1	I	245	VAL
1	I	558	GLN
1	I	573	THR
1	I	884	TRP
1	I	1214	TYR
1	K	245	VAL
1	K	558	GLN
1	K	573	THR
1	K	884	TRP
1	K	1214	TYR
1	M	245	VAL
1	M	558	GLN
1	M	573	THR
1	M	884	TRP
1	M	1214	TYR
1	A	281	PRO
1	A	559	PRO
1	A	561	PRO
1	A	568	LEU
1	A	572	GLU
1	A	679	LYS
1	A	921	MET
1	A	1158	ASN
1	A	1171	GLU
1	A	1206	THR
1	C	281	PRO
1	C	559	PRO
1	C	561	PRO
1	C	568	LEU
1	C	572	GLU
1	C	679	LYS
1	C	921	MET
1	C	1158	ASN
1	C	1171	GLU
1	C	1206	THR
1	E	281	PRO

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	E	559	PRO
1	E	561	PRO
1	E	568	LEU
1	E	572	GLU
1	E	679	LYS
1	E	921	MET
1	E	1158	ASN
1	E	1171	GLU
1	E	1206	THR
1	G	281	PRO
1	G	559	PRO
1	G	561	PRO
1	G	568	LEU
1	G	572	GLU
1	G	679	LYS
1	G	921	MET
1	G	1158	ASN
1	G	1171	GLU
1	G	1206	THR
1	I	281	PRO
1	I	559	PRO
1	I	561	PRO
1	I	568	LEU
1	I	572	GLU
1	I	679	LYS
1	I	921	MET
1	I	1158	ASN
1	I	1171	GLU
1	I	1206	THR
1	K	281	PRO
1	K	559	PRO
1	K	561	PRO
1	K	568	LEU
1	K	572	GLU
1	K	679	LYS
1	K	921	MET
1	K	1158	ASN
1	K	1171	GLU
1	K	1206	THR
1	M	281	PRO
1	M	559	PRO
1	M	561	PRO

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	M	568	LEU
1	M	572	GLU
1	M	679	LYS
1	M	921	MET
1	M	1158	ASN
1	M	1171	GLU
1	M	1206	THR
1	A	697	GLU
1	A	963	GLN
1	A	1022	SER
1	A	1129	CYS
1	A	1179	TRP
1	A	1205	VAL
1	C	697	GLU
1	C	963	GLN
1	C	1022	SER
1	C	1129	CYS
1	C	1179	TRP
1	C	1205	VAL
1	E	697	GLU
1	E	963	GLN
1	E	1022	SER
1	E	1129	CYS
1	E	1179	TRP
1	E	1205	VAL
1	G	697	GLU
1	G	963	GLN
1	G	1022	SER
1	G	1129	CYS
1	G	1179	TRP
1	G	1205	VAL
1	I	697	GLU
1	I	963	GLN
1	I	1022	SER
1	I	1129	CYS
1	I	1179	TRP
1	I	1205	VAL
1	K	697	GLU
1	K	963	GLN
1	K	1022	SER
1	K	1129	CYS
1	K	1179	TRP

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	K	1205	VAL
1	M	697	GLU
1	M	963	GLN
1	M	1022	SER
1	M	1129	CYS
1	M	1179	TRP
1	M	1205	VAL
1	A	637	LYS
1	A	919	ALA
1	A	1002	HIS
1	A	1007	TRP
1	A	1073	ILE
1	A	1107	LYS
1	C	637	LYS
1	C	919	ALA
1	C	1007	TRP
1	C	1073	ILE
1	C	1107	LYS
1	E	637	LYS
1	E	919	ALA
1	E	1007	TRP
1	E	1073	ILE
1	E	1107	LYS
1	G	637	LYS
1	G	919	ALA
1	G	1007	TRP
1	G	1073	ILE
1	G	1107	LYS
1	I	637	LYS
1	I	919	ALA
1	I	1007	TRP
1	I	1073	ILE
1	I	1107	LYS
1	K	637	LYS
1	K	919	ALA
1	K	1007	TRP
1	K	1073	ILE
1	K	1107	LYS
1	M	637	LYS
1	M	919	ALA
1	M	1002	HIS
1	M	1007	TRP

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	M	1073	ILE
1	M	1107	LYS
1	A	574	SER
1	A	741	GLY
1	C	574	SER
1	C	741	GLY
1	C	1002	HIS
1	E	574	SER
1	E	741	GLY
1	E	1002	HIS
1	G	574	SER
1	G	741	GLY
1	G	1002	HIS
1	I	574	SER
1	I	741	GLY
1	I	1002	HIS
1	K	574	SER
1	K	741	GLY
1	K	883	SER
1	K	1002	HIS
1	M	574	SER
1	M	741	GLY
1	M	883	SER
1	A	146	GLU
1	A	571	PRO
1	C	146	GLU
1	C	571	PRO
1	E	146	GLU
1	E	571	PRO
1	G	146	GLU
1	G	571	PRO
1	I	146	GLU
1	I	571	PRO
1	K	146	GLU
1	K	571	PRO
1	M	146	GLU
1	M	571	PRO
1	A	920	VAL
1	C	920	VAL
1	E	920	VAL
1	G	920	VAL
1	I	920	VAL

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	K	920	VAL
1	M	920	VAL

5.3.2 Protein sidechains ⓘ

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	1027/1131 (91%)	829 (81%)	198 (19%)	1	9
1	C	1027/1131 (91%)	829 (81%)	198 (19%)	1	9
1	E	1027/1131 (91%)	829 (81%)	198 (19%)	1	9
1	G	1027/1131 (91%)	829 (81%)	198 (19%)	1	9
1	I	1027/1131 (91%)	829 (81%)	198 (19%)	1	9
1	K	1027/1131 (91%)	829 (81%)	198 (19%)	1	9
1	M	1027/1131 (91%)	829 (81%)	198 (19%)	1	9
2	B	86/87 (99%)	81 (94%)	5 (6%)	18	44
2	D	86/87 (99%)	81 (94%)	5 (6%)	18	44
2	F	86/87 (99%)	81 (94%)	5 (6%)	18	44
2	H	86/87 (99%)	81 (94%)	5 (6%)	18	44
2	J	86/87 (99%)	81 (94%)	5 (6%)	18	44
2	L	86/87 (99%)	81 (94%)	5 (6%)	18	44
2	N	86/87 (99%)	81 (94%)	5 (6%)	18	44
All	All	7791/8526 (91%)	6370 (82%)	1421 (18%)	3	12

All (1421) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	114	LEU
1	A	116	GLU
1	A	122	ARG
1	A	126	PHE
1	A	127	VAL

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	A	128	THR
1	A	129	ARG
1	A	130	LYS
1	A	138	GLN
1	A	139	LYS
1	A	142	LYS
1	A	143	LEU
1	A	144	LYS
1	A	155	MET
1	A	158	CYS
1	A	160	LYS
1	A	163	LEU
1	A	166	GLU
1	A	173	LEU
1	A	174	LEU
1	A	189	LYS
1	A	197	MET
1	A	198	LYS
1	A	206	LEU
1	A	208	GLN
1	A	210	GLU
1	A	213	SER
1	A	225	ASP
1	A	226	ARG
1	A	231	MET
1	A	234	LYS
1	A	237	ARG
1	A	239	LEU
1	A	240	LEU
1	A	241	ILE
1	A	243	ASP
1	A	248	SER
1	A	252	LYS
1	A	256	SER
1	A	259	GLN
1	A	260	ILE
1	A	261	LEU
1	A	262	LEU
1	A	265	ARG
1	A	266	ASP
1	A	267	LYS
1	A	268	SER

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	A	273	VAL
1	A	277	LYS
1	A	278	TYR
1	A	283	GLU
1	A	286	LEU
1	A	288	LYS
1	A	290	LYS
1	A	293	GLU
1	A	294	ILE
1	A	295	LEU
1	A	298	PHE
1	A	301	MET
1	A	302	LYS
1	A	303	LYS
1	A	308	GLU
1	A	309	GLN
1	A	311	HIS
1	A	317	CYS
1	A	318	LYS
1	A	322	LEU
1	A	325	SER
1	A	326	LEU
1	A	332	ARG
1	A	333	ASP
1	A	334	PHE
1	A	348	LYS
1	A	352	ARG
1	A	353	ILE
1	A	357	SER
1	A	358	SER
1	A	360	ASP
1	A	362	GLU
1	A	373	GLU
1	A	374	MET
1	A	376	ARG
1	A	384	THR
1	A	386	LEU
1	A	389	LEU
1	A	391	LYS
1	A	397	THR
1	A	398	LYS
1	A	402	ILE

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	A	403	LEU
1	A	405	ASP
1	A	406	MET
1	A	407	GLU
1	A	426	CYS
1	A	428	ARG
1	A	429	ASN
1	A	431	LYS
1	A	434	ARG
1	A	438	HIS
1	A	439	ASP
1	A	442	VAL
1	A	449	ASN
1	A	450	CYS
1	A	456	LEU
1	A	457	HIS
1	A	473	LEU
1	A	476	ASP
1	A	477	GLN
1	A	485	ASN
1	A	486	PHE
1	A	493	SER
1	A	505	PHE
1	A	514	THR
1	A	515	GLU
1	A	516	LEU
1	A	522	LEU
1	A	527	VAL
1	A	528	GLU
1	A	530	ARG
1	A	531	HIS
1	A	532	ILE
1	A	533	LEU
1	A	534	ASP
1	A	537	ASP
1	A	546	GLU
1	A	550	LEU
1	A	553	HIS
1	A	555	LEU
1	A	557	ARG
1	A	562	ASN
1	A	566	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	A	568	LEU
1	A	572	GLU
1	A	573	THR
1	A	575	GLU
1	A	576	VAL
1	A	578	GLN
1	A	585	LYS
1	A	587	GLU
1	A	592	MET
1	A	596	GLU
1	A	598	ILE
1	A	600	LYS
1	A	603	ILE
1	A	616	ASP
1	A	619	TYR
1	A	633	CYS
1	A	643	LYS
1	A	645	GLU
1	A	646	THR
1	A	648	GLU
1	A	649	LYS
1	A	651	LEU
1	A	654	LYS
1	A	657	GLU
1	A	658	ASP
1	A	659	GLU
1	A	879	ARG
1	A	881	HIS
1	A	882	LEU
1	A	885	VAL
1	A	907	ARG
1	A	914	VAL
1	A	918	SER
1	A	920	VAL
1	A	921	MET
1	A	925	GLU
1	A	938	LEU
1	A	940	VAL
1	A	948	LEU
1	A	999	ARG
1	A	1078	GLU
1	A	1164	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	A	1165	CYS
1	A	1168	LEU
1	A	1170	GLU
1	A	1171	GLU
1	A	1179	TRP
1	A	1181	THR
1	A	1182	ASP
1	A	1183	LEU
1	A	1192	LEU
1	A	1211	GLN
1	A	1215	THR
1	A	1218	THR
1	A	1219	ASN
1	A	1220	LEU
1	A	1221	LYS
1	A	1224	HIS
1	A	1226	SER
1	A	1229	PHE
1	A	1232	TYR
1	A	1233	VAL
1	A	1235	VAL
1	A	1240	ILE
1	A	1245	GLN
1	A	1247	LEU
1	A	1248	GLU
2	B	12	GLN
2	B	38	ARG
2	B	39	LYS
2	B	52	ASN
2	B	62	GLU
1	C	114	LEU
1	C	116	GLU
1	C	122	ARG
1	C	126	PHE
1	C	127	VAL
1	C	128	THR
1	C	129	ARG
1	C	130	LYS
1	C	138	GLN
1	C	139	LYS
1	C	142	LYS
1	C	143	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	C	144	LYS
1	C	155	MET
1	C	158	CYS
1	C	160	LYS
1	C	163	LEU
1	C	166	GLU
1	C	173	LEU
1	C	174	LEU
1	C	189	LYS
1	C	197	MET
1	C	198	LYS
1	C	206	LEU
1	C	208	GLN
1	C	210	GLU
1	C	213	SER
1	C	225	ASP
1	C	226	ARG
1	C	231	MET
1	C	234	LYS
1	C	237	ARG
1	C	239	LEU
1	C	240	LEU
1	C	241	ILE
1	C	243	ASP
1	C	248	SER
1	C	252	LYS
1	C	256	SER
1	C	259	GLN
1	C	260	ILE
1	C	261	LEU
1	C	262	LEU
1	C	265	ARG
1	C	266	ASP
1	C	267	LYS
1	C	268	SER
1	C	273	VAL
1	C	277	LYS
1	C	278	TYR
1	C	283	GLU
1	C	286	LEU
1	C	288	LYS
1	C	290	LYS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	C	293	GLU
1	C	294	ILE
1	C	295	LEU
1	C	298	PHE
1	C	301	MET
1	C	302	LYS
1	C	303	LYS
1	C	308	GLU
1	C	309	GLN
1	C	311	HIS
1	C	317	CYS
1	C	318	LYS
1	C	322	LEU
1	C	325	SER
1	C	326	LEU
1	C	332	ARG
1	C	333	ASP
1	C	334	PHE
1	C	348	LYS
1	C	352	ARG
1	C	353	ILE
1	C	357	SER
1	C	358	SER
1	C	360	ASP
1	C	362	GLU
1	C	373	GLU
1	C	374	MET
1	C	376	ARG
1	C	384	THR
1	C	386	LEU
1	C	389	LEU
1	C	391	LYS
1	C	397	THR
1	C	398	LYS
1	C	402	ILE
1	C	403	LEU
1	C	405	ASP
1	C	406	MET
1	C	407	GLU
1	C	426	CYS
1	C	428	ARG
1	C	429	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	C	431	LYS
1	C	434	ARG
1	C	438	HIS
1	C	439	ASP
1	C	442	VAL
1	C	449	ASN
1	C	450	CYS
1	C	456	LEU
1	C	457	HIS
1	C	473	LEU
1	C	476	ASP
1	C	477	GLN
1	C	485	ASN
1	C	486	PHE
1	C	493	SER
1	C	505	PHE
1	C	514	THR
1	C	515	GLU
1	C	516	LEU
1	C	522	LEU
1	C	527	VAL
1	C	528	GLU
1	C	530	ARG
1	C	531	HIS
1	C	532	ILE
1	C	533	LEU
1	C	534	ASP
1	C	537	ASP
1	C	546	GLU
1	C	550	LEU
1	C	553	HIS
1	C	555	LEU
1	C	557	ARG
1	C	562	ASN
1	C	566	LEU
1	C	568	LEU
1	C	572	GLU
1	C	573	THR
1	C	575	GLU
1	C	576	VAL
1	C	578	GLN
1	C	585	LYS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	C	587	GLU
1	C	592	MET
1	C	596	GLU
1	C	598	ILE
1	C	600	LYS
1	C	603	ILE
1	C	616	ASP
1	C	619	TYR
1	C	633	CYS
1	C	643	LYS
1	C	645	GLU
1	C	646	THR
1	C	648	GLU
1	C	649	LYS
1	C	651	LEU
1	C	654	LYS
1	C	657	GLU
1	C	658	ASP
1	C	659	GLU
1	C	879	ARG
1	C	881	HIS
1	C	882	LEU
1	C	885	VAL
1	C	907	ARG
1	C	914	VAL
1	C	918	SER
1	C	920	VAL
1	C	921	MET
1	C	925	GLU
1	C	938	LEU
1	C	940	VAL
1	C	948	LEU
1	C	999	ARG
1	C	1078	GLU
1	C	1164	LEU
1	C	1165	CYS
1	C	1168	LEU
1	C	1170	GLU
1	C	1171	GLU
1	C	1179	TRP
1	C	1181	THR
1	C	1182	ASP

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	C	1183	LEU
1	C	1192	LEU
1	C	1211	GLN
1	C	1215	THR
1	C	1218	THR
1	C	1219	ASN
1	C	1220	LEU
1	C	1221	LYS
1	C	1224	HIS
1	C	1226	SER
1	C	1229	PHE
1	C	1232	TYR
1	C	1233	VAL
1	C	1235	VAL
1	C	1240	ILE
1	C	1245	GLN
1	C	1247	LEU
1	C	1248	GLU
2	D	12	GLN
2	D	38	ARG
2	D	39	LYS
2	D	52	ASN
2	D	62	GLU
1	E	114	LEU
1	E	116	GLU
1	E	122	ARG
1	E	126	PHE
1	E	127	VAL
1	E	128	THR
1	E	129	ARG
1	E	130	LYS
1	E	138	GLN
1	E	139	LYS
1	E	142	LYS
1	E	143	LEU
1	E	144	LYS
1	E	155	MET
1	E	158	CYS
1	E	160	LYS
1	E	163	LEU
1	E	166	GLU
1	E	173	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	E	174	LEU
1	E	189	LYS
1	E	197	MET
1	E	198	LYS
1	E	206	LEU
1	E	208	GLN
1	E	210	GLU
1	E	213	SER
1	E	225	ASP
1	E	226	ARG
1	E	231	MET
1	E	234	LYS
1	E	237	ARG
1	E	239	LEU
1	E	240	LEU
1	E	241	ILE
1	E	243	ASP
1	E	248	SER
1	E	252	LYS
1	E	256	SER
1	E	259	GLN
1	E	260	ILE
1	E	261	LEU
1	E	262	LEU
1	E	265	ARG
1	E	266	ASP
1	E	267	LYS
1	E	268	SER
1	E	273	VAL
1	E	277	LYS
1	E	278	TYR
1	E	283	GLU
1	E	286	LEU
1	E	288	LYS
1	E	290	LYS
1	E	293	GLU
1	E	294	ILE
1	E	295	LEU
1	E	298	PHE
1	E	301	MET
1	E	302	LYS
1	E	303	LYS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	E	308	GLU
1	E	309	GLN
1	E	311	HIS
1	E	317	CYS
1	E	318	LYS
1	E	322	LEU
1	E	325	SER
1	E	326	LEU
1	E	332	ARG
1	E	333	ASP
1	E	334	PHE
1	E	348	LYS
1	E	352	ARG
1	E	353	ILE
1	E	357	SER
1	E	358	SER
1	E	360	ASP
1	E	362	GLU
1	E	373	GLU
1	E	374	MET
1	E	376	ARG
1	E	384	THR
1	E	386	LEU
1	E	389	LEU
1	E	391	LYS
1	E	397	THR
1	E	398	LYS
1	E	402	ILE
1	E	403	LEU
1	E	405	ASP
1	E	406	MET
1	E	407	GLU
1	E	426	CYS
1	E	428	ARG
1	E	429	ASN
1	E	431	LYS
1	E	434	ARG
1	E	438	HIS
1	E	439	ASP
1	E	442	VAL
1	E	449	ASN
1	E	450	CYS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	E	456	LEU
1	E	457	HIS
1	E	473	LEU
1	E	476	ASP
1	E	477	GLN
1	E	485	ASN
1	E	486	PHE
1	E	493	SER
1	E	505	PHE
1	E	514	THR
1	E	515	GLU
1	E	516	LEU
1	E	522	LEU
1	E	527	VAL
1	E	528	GLU
1	E	530	ARG
1	E	531	HIS
1	E	532	ILE
1	E	533	LEU
1	E	534	ASP
1	E	537	ASP
1	E	546	GLU
1	E	550	LEU
1	E	553	HIS
1	E	555	LEU
1	E	557	ARG
1	E	562	ASN
1	E	566	LEU
1	E	568	LEU
1	E	572	GLU
1	E	573	THR
1	E	575	GLU
1	E	576	VAL
1	E	578	GLN
1	E	585	LYS
1	E	587	GLU
1	E	592	MET
1	E	596	GLU
1	E	598	ILE
1	E	600	LYS
1	E	603	ILE
1	E	616	ASP

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	E	619	TYR
1	E	633	CYS
1	E	643	LYS
1	E	645	GLU
1	E	646	THR
1	E	648	GLU
1	E	649	LYS
1	E	651	LEU
1	E	654	LYS
1	E	657	GLU
1	E	658	ASP
1	E	659	GLU
1	E	879	ARG
1	E	881	HIS
1	E	882	LEU
1	E	885	VAL
1	E	907	ARG
1	E	914	VAL
1	E	918	SER
1	E	920	VAL
1	E	921	MET
1	E	925	GLU
1	E	938	LEU
1	E	940	VAL
1	E	948	LEU
1	E	999	ARG
1	E	1078	GLU
1	E	1164	LEU
1	E	1165	CYS
1	E	1168	LEU
1	E	1170	GLU
1	E	1171	GLU
1	E	1179	TRP
1	E	1181	THR
1	E	1182	ASP
1	E	1183	LEU
1	E	1192	LEU
1	E	1211	GLN
1	E	1215	THR
1	E	1218	THR
1	E	1219	ASN
1	E	1220	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	E	1221	LYS
1	E	1224	HIS
1	E	1226	SER
1	E	1229	PHE
1	E	1232	TYR
1	E	1233	VAL
1	E	1235	VAL
1	E	1240	ILE
1	E	1245	GLN
1	E	1247	LEU
1	E	1248	GLU
2	F	12	GLN
2	F	38	ARG
2	F	39	LYS
2	F	52	ASN
2	F	62	GLU
1	G	114	LEU
1	G	116	GLU
1	G	122	ARG
1	G	126	PHE
1	G	127	VAL
1	G	128	THR
1	G	129	ARG
1	G	130	LYS
1	G	138	GLN
1	G	139	LYS
1	G	142	LYS
1	G	143	LEU
1	G	144	LYS
1	G	155	MET
1	G	158	CYS
1	G	160	LYS
1	G	163	LEU
1	G	166	GLU
1	G	173	LEU
1	G	174	LEU
1	G	189	LYS
1	G	197	MET
1	G	198	LYS
1	G	206	LEU
1	G	208	GLN
1	G	210	GLU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	G	213	SER
1	G	225	ASP
1	G	226	ARG
1	G	231	MET
1	G	234	LYS
1	G	237	ARG
1	G	239	LEU
1	G	240	LEU
1	G	241	ILE
1	G	243	ASP
1	G	248	SER
1	G	252	LYS
1	G	256	SER
1	G	259	GLN
1	G	260	ILE
1	G	261	LEU
1	G	262	LEU
1	G	265	ARG
1	G	266	ASP
1	G	267	LYS
1	G	268	SER
1	G	273	VAL
1	G	277	LYS
1	G	278	TYR
1	G	283	GLU
1	G	286	LEU
1	G	288	LYS
1	G	290	LYS
1	G	293	GLU
1	G	294	ILE
1	G	295	LEU
1	G	298	PHE
1	G	301	MET
1	G	302	LYS
1	G	303	LYS
1	G	308	GLU
1	G	309	GLN
1	G	311	HIS
1	G	317	CYS
1	G	318	LYS
1	G	322	LEU
1	G	325	SER

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	G	326	LEU
1	G	332	ARG
1	G	333	ASP
1	G	334	PHE
1	G	348	LYS
1	G	352	ARG
1	G	353	ILE
1	G	357	SER
1	G	358	SER
1	G	360	ASP
1	G	362	GLU
1	G	373	GLU
1	G	374	MET
1	G	376	ARG
1	G	384	THR
1	G	386	LEU
1	G	389	LEU
1	G	391	LYS
1	G	397	THR
1	G	398	LYS
1	G	402	ILE
1	G	403	LEU
1	G	405	ASP
1	G	406	MET
1	G	407	GLU
1	G	426	CYS
1	G	428	ARG
1	G	429	ASN
1	G	431	LYS
1	G	434	ARG
1	G	438	HIS
1	G	439	ASP
1	G	442	VAL
1	G	449	ASN
1	G	450	CYS
1	G	456	LEU
1	G	457	HIS
1	G	473	LEU
1	G	476	ASP
1	G	477	GLN
1	G	485	ASN
1	G	486	PHE

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	G	493	SER
1	G	505	PHE
1	G	514	THR
1	G	515	GLU
1	G	516	LEU
1	G	522	LEU
1	G	527	VAL
1	G	528	GLU
1	G	530	ARG
1	G	531	HIS
1	G	532	ILE
1	G	533	LEU
1	G	534	ASP
1	G	537	ASP
1	G	546	GLU
1	G	550	LEU
1	G	553	HIS
1	G	555	LEU
1	G	557	ARG
1	G	562	ASN
1	G	566	LEU
1	G	568	LEU
1	G	572	GLU
1	G	573	THR
1	G	575	GLU
1	G	576	VAL
1	G	578	GLN
1	G	585	LYS
1	G	587	GLU
1	G	592	MET
1	G	596	GLU
1	G	598	ILE
1	G	600	LYS
1	G	603	ILE
1	G	616	ASP
1	G	619	TYR
1	G	633	CYS
1	G	643	LYS
1	G	645	GLU
1	G	646	THR
1	G	648	GLU
1	G	649	LYS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	G	651	LEU
1	G	654	LYS
1	G	657	GLU
1	G	658	ASP
1	G	659	GLU
1	G	879	ARG
1	G	881	HIS
1	G	882	LEU
1	G	885	VAL
1	G	907	ARG
1	G	914	VAL
1	G	918	SER
1	G	920	VAL
1	G	921	MET
1	G	925	GLU
1	G	938	LEU
1	G	940	VAL
1	G	948	LEU
1	G	999	ARG
1	G	1078	GLU
1	G	1164	LEU
1	G	1165	CYS
1	G	1168	LEU
1	G	1170	GLU
1	G	1171	GLU
1	G	1179	TRP
1	G	1181	THR
1	G	1182	ASP
1	G	1183	LEU
1	G	1192	LEU
1	G	1211	GLN
1	G	1215	THR
1	G	1218	THR
1	G	1219	ASN
1	G	1220	LEU
1	G	1221	LYS
1	G	1224	HIS
1	G	1226	SER
1	G	1229	PHE
1	G	1232	TYR
1	G	1233	VAL
1	G	1235	VAL

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	G	1240	ILE
1	G	1245	GLN
1	G	1247	LEU
1	G	1248	GLU
2	H	12	GLN
2	H	38	ARG
2	H	39	LYS
2	H	52	ASN
2	H	62	GLU
1	I	114	LEU
1	I	116	GLU
1	I	122	ARG
1	I	126	PHE
1	I	127	VAL
1	I	128	THR
1	I	129	ARG
1	I	130	LYS
1	I	138	GLN
1	I	139	LYS
1	I	142	LYS
1	I	143	LEU
1	I	144	LYS
1	I	155	MET
1	I	158	CYS
1	I	160	LYS
1	I	163	LEU
1	I	166	GLU
1	I	173	LEU
1	I	174	LEU
1	I	189	LYS
1	I	197	MET
1	I	198	LYS
1	I	206	LEU
1	I	208	GLN
1	I	210	GLU
1	I	213	SER
1	I	225	ASP
1	I	226	ARG
1	I	231	MET
1	I	234	LYS
1	I	237	ARG
1	I	239	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	I	240	LEU
1	I	241	ILE
1	I	243	ASP
1	I	248	SER
1	I	252	LYS
1	I	256	SER
1	I	259	GLN
1	I	260	ILE
1	I	261	LEU
1	I	262	LEU
1	I	265	ARG
1	I	266	ASP
1	I	267	LYS
1	I	268	SER
1	I	273	VAL
1	I	277	LYS
1	I	278	TYR
1	I	283	GLU
1	I	286	LEU
1	I	288	LYS
1	I	290	LYS
1	I	293	GLU
1	I	294	ILE
1	I	295	LEU
1	I	298	PHE
1	I	301	MET
1	I	302	LYS
1	I	303	LYS
1	I	308	GLU
1	I	309	GLN
1	I	311	HIS
1	I	317	CYS
1	I	318	LYS
1	I	322	LEU
1	I	325	SER
1	I	326	LEU
1	I	332	ARG
1	I	333	ASP
1	I	334	PHE
1	I	348	LYS
1	I	352	ARG
1	I	353	ILE

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	I	357	SER
1	I	358	SER
1	I	360	ASP
1	I	362	GLU
1	I	373	GLU
1	I	374	MET
1	I	376	ARG
1	I	384	THR
1	I	386	LEU
1	I	389	LEU
1	I	391	LYS
1	I	397	THR
1	I	398	LYS
1	I	402	ILE
1	I	403	LEU
1	I	405	ASP
1	I	406	MET
1	I	407	GLU
1	I	426	CYS
1	I	428	ARG
1	I	429	ASN
1	I	431	LYS
1	I	434	ARG
1	I	438	HIS
1	I	439	ASP
1	I	442	VAL
1	I	449	ASN
1	I	450	CYS
1	I	456	LEU
1	I	457	HIS
1	I	473	LEU
1	I	476	ASP
1	I	477	GLN
1	I	485	ASN
1	I	486	PHE
1	I	493	SER
1	I	505	PHE
1	I	514	THR
1	I	515	GLU
1	I	516	LEU
1	I	522	LEU
1	I	527	VAL

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	I	528	GLU
1	I	530	ARG
1	I	531	HIS
1	I	532	ILE
1	I	533	LEU
1	I	534	ASP
1	I	537	ASP
1	I	546	GLU
1	I	550	LEU
1	I	553	HIS
1	I	555	LEU
1	I	557	ARG
1	I	562	ASN
1	I	566	LEU
1	I	568	LEU
1	I	572	GLU
1	I	573	THR
1	I	575	GLU
1	I	576	VAL
1	I	578	GLN
1	I	585	LYS
1	I	587	GLU
1	I	592	MET
1	I	596	GLU
1	I	598	ILE
1	I	600	LYS
1	I	603	ILE
1	I	616	ASP
1	I	619	TYR
1	I	633	CYS
1	I	643	LYS
1	I	645	GLU
1	I	646	THR
1	I	648	GLU
1	I	649	LYS
1	I	651	LEU
1	I	654	LYS
1	I	657	GLU
1	I	658	ASP
1	I	659	GLU
1	I	879	ARG
1	I	881	HIS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	I	882	LEU
1	I	885	VAL
1	I	907	ARG
1	I	914	VAL
1	I	918	SER
1	I	920	VAL
1	I	921	MET
1	I	925	GLU
1	I	938	LEU
1	I	940	VAL
1	I	948	LEU
1	I	999	ARG
1	I	1078	GLU
1	I	1164	LEU
1	I	1165	CYS
1	I	1168	LEU
1	I	1170	GLU
1	I	1171	GLU
1	I	1179	TRP
1	I	1181	THR
1	I	1182	ASP
1	I	1183	LEU
1	I	1192	LEU
1	I	1211	GLN
1	I	1215	THR
1	I	1218	THR
1	I	1219	ASN
1	I	1220	LEU
1	I	1221	LYS
1	I	1224	HIS
1	I	1226	SER
1	I	1229	PHE
1	I	1232	TYR
1	I	1233	VAL
1	I	1235	VAL
1	I	1240	ILE
1	I	1245	GLN
1	I	1247	LEU
1	I	1248	GLU
2	J	12	GLN
2	J	38	ARG
2	J	39	LYS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	J	52	ASN
2	J	62	GLU
1	K	114	LEU
1	K	116	GLU
1	K	122	ARG
1	K	126	PHE
1	K	127	VAL
1	K	128	THR
1	K	129	ARG
1	K	130	LYS
1	K	138	GLN
1	K	139	LYS
1	K	142	LYS
1	K	143	LEU
1	K	144	LYS
1	K	155	MET
1	K	158	CYS
1	K	160	LYS
1	K	163	LEU
1	K	166	GLU
1	K	173	LEU
1	K	174	LEU
1	K	189	LYS
1	K	197	MET
1	K	198	LYS
1	K	206	LEU
1	K	208	GLN
1	K	210	GLU
1	K	213	SER
1	K	225	ASP
1	K	226	ARG
1	K	231	MET
1	K	234	LYS
1	K	237	ARG
1	K	239	LEU
1	K	240	LEU
1	K	241	ILE
1	K	243	ASP
1	K	248	SER
1	K	252	LYS
1	K	256	SER
1	K	259	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	K	260	ILE
1	K	261	LEU
1	K	262	LEU
1	K	265	ARG
1	K	266	ASP
1	K	267	LYS
1	K	268	SER
1	K	273	VAL
1	K	277	LYS
1	K	278	TYR
1	K	283	GLU
1	K	286	LEU
1	K	288	LYS
1	K	290	LYS
1	K	293	GLU
1	K	294	ILE
1	K	295	LEU
1	K	298	PHE
1	K	301	MET
1	K	302	LYS
1	K	303	LYS
1	K	308	GLU
1	K	309	GLN
1	K	311	HIS
1	K	317	CYS
1	K	318	LYS
1	K	322	LEU
1	K	325	SER
1	K	326	LEU
1	K	332	ARG
1	K	333	ASP
1	K	334	PHE
1	K	348	LYS
1	K	352	ARG
1	K	353	ILE
1	K	357	SER
1	K	358	SER
1	K	360	ASP
1	K	362	GLU
1	K	373	GLU
1	K	374	MET
1	K	376	ARG

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	K	384	THR
1	K	386	LEU
1	K	389	LEU
1	K	391	LYS
1	K	397	THR
1	K	398	LYS
1	K	402	ILE
1	K	403	LEU
1	K	405	ASP
1	K	406	MET
1	K	407	GLU
1	K	426	CYS
1	K	428	ARG
1	K	429	ASN
1	K	431	LYS
1	K	434	ARG
1	K	438	HIS
1	K	439	ASP
1	K	442	VAL
1	K	449	ASN
1	K	450	CYS
1	K	456	LEU
1	K	457	HIS
1	K	473	LEU
1	K	476	ASP
1	K	477	GLN
1	K	485	ASN
1	K	486	PHE
1	K	493	SER
1	K	505	PHE
1	K	514	THR
1	K	515	GLU
1	K	516	LEU
1	K	522	LEU
1	K	527	VAL
1	K	528	GLU
1	K	530	ARG
1	K	531	HIS
1	K	532	ILE
1	K	533	LEU
1	K	534	ASP
1	K	537	ASP

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	K	546	GLU
1	K	550	LEU
1	K	553	HIS
1	K	555	LEU
1	K	557	ARG
1	K	562	ASN
1	K	566	LEU
1	K	568	LEU
1	K	572	GLU
1	K	573	THR
1	K	575	GLU
1	K	576	VAL
1	K	578	GLN
1	K	585	LYS
1	K	587	GLU
1	K	592	MET
1	K	596	GLU
1	K	598	ILE
1	K	600	LYS
1	K	603	ILE
1	K	616	ASP
1	K	619	TYR
1	K	633	CYS
1	K	643	LYS
1	K	645	GLU
1	K	646	THR
1	K	648	GLU
1	K	649	LYS
1	K	651	LEU
1	K	654	LYS
1	K	657	GLU
1	K	658	ASP
1	K	659	GLU
1	K	879	ARG
1	K	881	HIS
1	K	882	LEU
1	K	885	VAL
1	K	907	ARG
1	K	914	VAL
1	K	918	SER
1	K	920	VAL
1	K	921	MET

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	K	925	GLU
1	K	938	LEU
1	K	940	VAL
1	K	948	LEU
1	K	999	ARG
1	K	1078	GLU
1	K	1164	LEU
1	K	1165	CYS
1	K	1168	LEU
1	K	1170	GLU
1	K	1171	GLU
1	K	1179	TRP
1	K	1181	THR
1	K	1182	ASP
1	K	1183	LEU
1	K	1192	LEU
1	K	1211	GLN
1	K	1215	THR
1	K	1218	THR
1	K	1219	ASN
1	K	1220	LEU
1	K	1221	LYS
1	K	1224	HIS
1	K	1226	SER
1	K	1229	PHE
1	K	1232	TYR
1	K	1233	VAL
1	K	1235	VAL
1	K	1240	ILE
1	K	1245	GLN
1	K	1247	LEU
1	K	1248	GLU
2	L	12	GLN
2	L	38	ARG
2	L	39	LYS
2	L	52	ASN
2	L	62	GLU
1	M	114	LEU
1	M	116	GLU
1	M	122	ARG
1	M	126	PHE
1	M	127	VAL

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	M	128	THR
1	M	129	ARG
1	M	130	LYS
1	M	138	GLN
1	M	139	LYS
1	M	142	LYS
1	M	143	LEU
1	M	144	LYS
1	M	155	MET
1	M	158	CYS
1	M	160	LYS
1	M	163	LEU
1	M	166	GLU
1	M	173	LEU
1	M	174	LEU
1	M	189	LYS
1	M	197	MET
1	M	198	LYS
1	M	206	LEU
1	M	208	GLN
1	M	210	GLU
1	M	213	SER
1	M	225	ASP
1	M	226	ARG
1	M	231	MET
1	M	234	LYS
1	M	237	ARG
1	M	239	LEU
1	M	240	LEU
1	M	241	ILE
1	M	243	ASP
1	M	248	SER
1	M	252	LYS
1	M	256	SER
1	M	259	GLN
1	M	260	ILE
1	M	261	LEU
1	M	262	LEU
1	M	265	ARG
1	M	266	ASP
1	M	267	LYS
1	M	268	SER

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	M	273	VAL
1	M	277	LYS
1	M	278	TYR
1	M	283	GLU
1	M	286	LEU
1	M	288	LYS
1	M	290	LYS
1	M	293	GLU
1	M	294	ILE
1	M	295	LEU
1	M	298	PHE
1	M	301	MET
1	M	302	LYS
1	M	303	LYS
1	M	308	GLU
1	M	309	GLN
1	M	311	HIS
1	M	317	CYS
1	M	318	LYS
1	M	322	LEU
1	M	325	SER
1	M	326	LEU
1	M	332	ARG
1	M	333	ASP
1	M	334	PHE
1	M	348	LYS
1	M	352	ARG
1	M	353	ILE
1	M	357	SER
1	M	358	SER
1	M	360	ASP
1	M	362	GLU
1	M	373	GLU
1	M	374	MET
1	M	376	ARG
1	M	384	THR
1	M	386	LEU
1	M	389	LEU
1	M	391	LYS
1	M	397	THR
1	M	398	LYS
1	M	402	ILE

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	M	403	LEU
1	M	405	ASP
1	M	406	MET
1	M	407	GLU
1	M	426	CYS
1	M	428	ARG
1	M	429	ASN
1	M	431	LYS
1	M	434	ARG
1	M	438	HIS
1	M	439	ASP
1	M	442	VAL
1	M	449	ASN
1	M	450	CYS
1	M	456	LEU
1	M	457	HIS
1	M	473	LEU
1	M	476	ASP
1	M	477	GLN
1	M	485	ASN
1	M	486	PHE
1	M	493	SER
1	M	505	PHE
1	M	514	THR
1	M	515	GLU
1	M	516	LEU
1	M	522	LEU
1	M	527	VAL
1	M	528	GLU
1	M	530	ARG
1	M	531	HIS
1	M	532	ILE
1	M	533	LEU
1	M	534	ASP
1	M	537	ASP
1	M	546	GLU
1	M	550	LEU
1	M	553	HIS
1	M	555	LEU
1	M	557	ARG
1	M	562	ASN
1	M	566	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	M	568	LEU
1	M	572	GLU
1	M	573	THR
1	M	575	GLU
1	M	576	VAL
1	M	578	GLN
1	M	585	LYS
1	M	587	GLU
1	M	592	MET
1	M	596	GLU
1	M	598	ILE
1	M	600	LYS
1	M	603	ILE
1	M	616	ASP
1	M	619	TYR
1	M	633	CYS
1	M	643	LYS
1	M	645	GLU
1	M	646	THR
1	M	648	GLU
1	M	649	LYS
1	M	651	LEU
1	M	654	LYS
1	M	657	GLU
1	M	658	ASP
1	M	659	GLU
1	M	879	ARG
1	M	881	HIS
1	M	882	LEU
1	M	885	VAL
1	M	907	ARG
1	M	914	VAL
1	M	918	SER
1	M	920	VAL
1	M	921	MET
1	M	925	GLU
1	M	938	LEU
1	M	940	VAL
1	M	948	LEU
1	M	999	ARG
1	M	1078	GLU
1	M	1164	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	M	1165	CYS
1	M	1168	LEU
1	M	1170	GLU
1	M	1171	GLU
1	M	1179	TRP
1	M	1181	THR
1	M	1182	ASP
1	M	1183	LEU
1	M	1192	LEU
1	M	1211	GLN
1	M	1215	THR
1	M	1218	THR
1	M	1219	ASN
1	M	1220	LEU
1	M	1221	LYS
1	M	1224	HIS
1	M	1226	SER
1	M	1229	PHE
1	M	1232	TYR
1	M	1233	VAL
1	M	1235	VAL
1	M	1240	ILE
1	M	1245	GLN
1	M	1247	LEU
1	M	1248	GLU
2	N	12	GLN
2	N	38	ARG
2	N	39	LYS
2	N	52	ASN
2	N	62	GLU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (226) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	137	GLN
1	A	138	GLN
1	A	183	HIS
1	A	200	GLN
1	A	214	GLN
1	A	235	HIS
1	A	259	GLN
1	A	347	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	A	416	GLN
1	A	420	ASN
1	A	438	HIS
1	A	441	GLN
1	A	454	GLN
1	A	457	HIS
1	A	485	ASN
1	A	490	HIS
1	A	521	HIS
1	A	524	HIS
1	A	562	ASN
1	A	579	GLN
1	A	583	GLN
1	A	614	HIS
1	A	703	ASN
1	A	709	ASN
1	A	840	HIS
1	A	881	HIS
1	A	1008	HIS
1	A	1126	HIS
1	A	1211	GLN
1	A	1219	ASN
1	A	1237	ASN
1	A	1245	GLN
2	B	12	GLN
2	B	33	HIS
1	C	137	GLN
1	C	138	GLN
1	C	183	HIS
1	C	200	GLN
1	C	214	GLN
1	C	235	HIS
1	C	259	GLN
1	C	347	ASN
1	C	416	GLN
1	C	420	ASN
1	C	438	HIS
1	C	441	GLN
1	C	454	GLN
1	C	457	HIS
1	C	485	ASN
1	C	490	HIS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	C	521	HIS
1	C	524	HIS
1	C	562	ASN
1	C	579	GLN
1	C	583	GLN
1	C	614	HIS
1	C	703	ASN
1	C	709	ASN
1	C	840	HIS
1	C	881	HIS
1	C	1008	HIS
1	C	1126	HIS
1	C	1211	GLN
1	C	1219	ASN
1	C	1237	ASN
1	C	1245	GLN
2	D	12	GLN
2	D	33	HIS
1	E	137	GLN
1	E	138	GLN
1	E	200	GLN
1	E	214	GLN
1	E	259	GLN
1	E	347	ASN
1	E	416	GLN
1	E	420	ASN
1	E	438	HIS
1	E	441	GLN
1	E	454	GLN
1	E	457	HIS
1	E	485	ASN
1	E	490	HIS
1	E	521	HIS
1	E	524	HIS
1	E	562	ASN
1	E	579	GLN
1	E	583	GLN
1	E	614	HIS
1	E	703	ASN
1	E	709	ASN
1	E	840	HIS
1	E	881	HIS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	E	1211	GLN
1	E	1219	ASN
1	E	1237	ASN
1	E	1245	GLN
2	F	12	GLN
2	F	33	HIS
1	G	137	GLN
1	G	138	GLN
1	G	200	GLN
1	G	214	GLN
1	G	259	GLN
1	G	347	ASN
1	G	416	GLN
1	G	420	ASN
1	G	438	HIS
1	G	441	GLN
1	G	454	GLN
1	G	485	ASN
1	G	490	HIS
1	G	521	HIS
1	G	524	HIS
1	G	562	ASN
1	G	579	GLN
1	G	583	GLN
1	G	614	HIS
1	G	703	ASN
1	G	709	ASN
1	G	840	HIS
1	G	881	HIS
1	G	1211	GLN
1	G	1219	ASN
1	G	1237	ASN
1	G	1245	GLN
2	H	12	GLN
2	H	33	HIS
1	I	137	GLN
1	I	138	GLN
1	I	183	HIS
1	I	200	GLN
1	I	214	GLN
1	I	235	HIS
1	I	259	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	I	347	ASN
1	I	416	GLN
1	I	420	ASN
1	I	438	HIS
1	I	441	GLN
1	I	454	GLN
1	I	457	HIS
1	I	485	ASN
1	I	490	HIS
1	I	521	HIS
1	I	524	HIS
1	I	562	ASN
1	I	579	GLN
1	I	583	GLN
1	I	614	HIS
1	I	703	ASN
1	I	709	ASN
1	I	840	HIS
1	I	881	HIS
1	I	1008	HIS
1	I	1126	HIS
1	I	1211	GLN
1	I	1219	ASN
1	I	1237	ASN
1	I	1245	GLN
2	J	12	GLN
2	J	33	HIS
1	K	137	GLN
1	K	138	GLN
1	K	183	HIS
1	K	200	GLN
1	K	214	GLN
1	K	235	HIS
1	K	259	GLN
1	K	347	ASN
1	K	416	GLN
1	K	420	ASN
1	K	438	HIS
1	K	441	GLN
1	K	454	GLN
1	K	457	HIS
1	K	485	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	K	490	HIS
1	K	521	HIS
1	K	524	HIS
1	K	562	ASN
1	K	579	GLN
1	K	583	GLN
1	K	614	HIS
1	K	703	ASN
1	K	709	ASN
1	K	840	HIS
1	K	881	HIS
1	K	1008	HIS
1	K	1211	GLN
1	K	1219	ASN
1	K	1237	ASN
1	K	1245	GLN
2	L	12	GLN
2	L	33	HIS
1	M	137	GLN
1	M	138	GLN
1	M	183	HIS
1	M	200	GLN
1	M	214	GLN
1	M	235	HIS
1	M	259	GLN
1	M	347	ASN
1	M	416	GLN
1	M	420	ASN
1	M	438	HIS
1	M	441	GLN
1	M	454	GLN
1	M	469	GLN
1	M	485	ASN
1	M	490	HIS
1	M	521	HIS
1	M	562	ASN
1	M	579	GLN
1	M	583	GLN
1	M	614	HIS
1	M	703	ASN
1	M	709	ASN
1	M	840	HIS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	M	881	HIS
1	M	1008	HIS
1	M	1211	GLN
1	M	1219	ASN
1	M	1237	ASN
1	M	1245	GLN
2	N	12	GLN
2	N	33	HIS

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 21 ligands modelled in this entry, 7 are monoatomic - leaving 14 for Mogul analysis.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
5	HEM	J	201	2	50,50,50	1.54	7 (14%)	66,82,82	1.69	11 (16%)
5	HEM	L	201	2	50,50,50	1.54	7 (14%)	66,82,82	1.69	11 (16%)
3	DTP	I	1301	4	28,32,32	1.35	4 (14%)	42,50,50	2.05	10 (23%)
3	DTP	G	1301	4	28,32,32	1.35	4 (14%)	42,50,50	2.05	10 (23%)
5	HEM	D	201	2	50,50,50	1.54	7 (14%)	66,82,82	1.68	11 (16%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
3	DTP	E	1301	4	28,32,32	1.35	4 (14%)	42,50,50	2.05	11 (26%)
5	HEM	B	201	2	50,50,50	1.54	7 (14%)	66,82,82	1.68	11 (16%)
5	HEM	N	201	2	50,50,50	1.54	7 (14%)	66,82,82	1.69	11 (16%)
5	HEM	H	201	2	50,50,50	1.54	7 (14%)	66,82,82	1.69	11 (16%)
3	DTP	A	1301	4	28,32,32	1.35	4 (14%)	42,50,50	2.05	11 (26%)
3	DTP	C	1301	4	28,32,32	1.35	4 (14%)	42,50,50	2.05	11 (26%)
3	DTP	M	1301	4	28,32,32	1.34	3 (10%)	42,50,50	2.05	10 (23%)
5	HEM	F	201	2	50,50,50	1.54	7 (14%)	66,82,82	1.68	11 (16%)
3	DTP	K	1301	4	28,32,32	1.34	4 (14%)	42,50,50	2.05	10 (23%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
5	HEM	J	201	2	-	5/14/54/54	-
5	HEM	L	201	2	-	5/14/54/54	-
3	DTP	I	1301	4	-	7/22/34/34	0/3/3/3
3	DTP	G	1301	4	-	7/22/34/34	0/3/3/3
5	HEM	D	201	2	-	5/14/54/54	-
3	DTP	E	1301	4	-	7/22/34/34	0/3/3/3
5	HEM	B	201	2	-	5/14/54/54	-
5	HEM	N	201	2	-	5/14/54/54	-
5	HEM	H	201	2	-	5/14/54/54	-
3	DTP	A	1301	4	-	7/22/34/34	0/3/3/3
3	DTP	C	1301	4	-	7/22/34/34	0/3/3/3
3	DTP	M	1301	4	-	7/22/34/34	0/3/3/3
5	HEM	F	201	2	-	5/14/54/54	-
3	DTP	K	1301	4	-	7/22/34/34	0/3/3/3

All (76) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	B	201	HEM	FE-NB	5.10	2.10	1.94
5	J	201	HEM	FE-NB	5.09	2.10	1.94
5	H	201	HEM	FE-NB	5.09	2.10	1.94

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	D	201	HEM	FE-NB	5.09	2.10	1.94
5	L	201	HEM	FE-NB	5.08	2.10	1.94
5	N	201	HEM	FE-NB	5.08	2.10	1.94
5	F	201	HEM	FE-NB	5.07	2.10	1.94
3	G	1301	DTP	C5-C4	4.56	1.47	1.39
3	I	1301	DTP	C5-C4	4.56	1.47	1.39
3	E	1301	DTP	C5-C4	4.56	1.47	1.39
3	A	1301	DTP	C5-C4	4.55	1.47	1.39
3	K	1301	DTP	C5-C4	4.55	1.47	1.39
3	C	1301	DTP	C5-C4	4.54	1.47	1.39
3	M	1301	DTP	C5-C4	4.54	1.47	1.39
5	F	201	HEM	FE-NC	4.03	2.08	1.95
5	D	201	HEM	FE-NC	4.03	2.08	1.95
5	B	201	HEM	FE-NC	4.02	2.08	1.95
5	N	201	HEM	FE-NC	4.02	2.08	1.95
5	L	201	HEM	FE-NC	4.02	2.08	1.95
5	H	201	HEM	FE-NC	4.01	2.08	1.95
5	J	201	HEM	FE-NC	4.01	2.08	1.95
5	J	201	HEM	C1B-NB	-3.40	1.34	1.40
5	H	201	HEM	C1B-NB	-3.38	1.34	1.40
5	L	201	HEM	C1B-NB	-3.37	1.34	1.40
5	N	201	HEM	C1B-NB	-3.37	1.34	1.40
5	F	201	HEM	C1B-NB	-3.35	1.34	1.40
5	B	201	HEM	C1B-NB	-3.35	1.34	1.40
5	D	201	HEM	C1B-NB	-3.34	1.34	1.40
5	H	201	HEM	C4D-ND	-3.24	1.34	1.40
5	F	201	HEM	C4D-ND	-3.23	1.34	1.40
5	B	201	HEM	C4D-ND	-3.21	1.34	1.40
5	J	201	HEM	C4D-ND	-3.20	1.34	1.40
5	D	201	HEM	C4D-ND	-3.20	1.34	1.40
5	L	201	HEM	C4D-ND	-3.18	1.34	1.40
5	N	201	HEM	C4D-ND	-3.16	1.34	1.40
3	G	1301	DTP	C5-C6	2.73	1.48	1.41
3	I	1301	DTP	C5-C6	2.73	1.48	1.41
3	M	1301	DTP	C5-C6	2.72	1.48	1.41
3	E	1301	DTP	C5-C6	2.72	1.48	1.41
3	K	1301	DTP	C5-C6	2.72	1.48	1.41
3	C	1301	DTP	C5-C6	2.72	1.48	1.41
3	A	1301	DTP	C5-C6	2.71	1.48	1.41
5	B	201	HEM	FE-ND	-2.53	1.86	1.94
5	J	201	HEM	FE-ND	-2.53	1.86	1.94
5	L	201	HEM	FE-ND	-2.52	1.87	1.94

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	D	201	HEM	FE-ND	-2.52	1.87	1.94
5	N	201	HEM	FE-ND	-2.52	1.87	1.94
5	H	201	HEM	FE-ND	-2.52	1.87	1.94
5	F	201	HEM	FE-ND	-2.51	1.87	1.94
3	E	1301	DTP	C8-N7	2.45	1.36	1.31
3	I	1301	DTP	C8-N7	2.45	1.36	1.31
3	G	1301	DTP	C8-N7	2.45	1.36	1.31
3	A	1301	DTP	C8-N7	2.45	1.36	1.31
3	C	1301	DTP	C8-N7	2.45	1.36	1.31
3	K	1301	DTP	C8-N7	2.44	1.36	1.31
3	M	1301	DTP	C8-N7	2.44	1.36	1.31
5	F	201	HEM	C1C-C2C	-2.28	1.40	1.45
5	B	201	HEM	C1C-C2C	-2.28	1.40	1.45
5	H	201	HEM	C1C-C2C	-2.27	1.40	1.45
5	D	201	HEM	C1C-C2C	-2.27	1.40	1.45
5	N	201	HEM	C1C-C2C	-2.24	1.40	1.45
5	J	201	HEM	C1C-C2C	-2.23	1.40	1.45
5	L	201	HEM	C1C-C2C	-2.22	1.40	1.45
3	A	1301	DTP	C5-N7	-2.09	1.35	1.39
5	N	201	HEM	C1D-ND	-2.08	1.34	1.38
3	E	1301	DTP	C5-N7	-2.07	1.35	1.39
3	C	1301	DTP	C5-N7	-2.07	1.35	1.39
3	G	1301	DTP	C5-N7	-2.07	1.35	1.39
5	L	201	HEM	C1D-ND	-2.06	1.34	1.38
5	F	201	HEM	C1D-ND	-2.04	1.34	1.38
3	I	1301	DTP	C5-N7	-2.04	1.35	1.39
5	D	201	HEM	C1D-ND	-2.04	1.34	1.38
5	J	201	HEM	C1D-ND	-2.04	1.34	1.38
5	H	201	HEM	C1D-ND	-2.03	1.34	1.38
5	B	201	HEM	C1D-ND	-2.02	1.34	1.38
3	K	1301	DTP	C5-N7	-2.01	1.35	1.39

All (150) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	M	1301	DTP	C5-C4-N3	-6.21	118.65	126.75
3	C	1301	DTP	C5-C4-N3	-6.21	118.65	126.75
3	G	1301	DTP	C5-C4-N3	-6.19	118.67	126.75
3	I	1301	DTP	C5-C4-N3	-6.19	118.67	126.75
3	A	1301	DTP	C5-C4-N3	-6.19	118.67	126.75
3	E	1301	DTP	C5-C4-N3	-6.18	118.68	126.75
3	K	1301	DTP	C5-C4-N3	-6.18	118.68	126.75

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	I	1301	DTP	N3-C4-N9	4.83	135.03	127.08
3	G	1301	DTP	N3-C4-N9	4.81	135.01	127.08
3	K	1301	DTP	N3-C4-N9	4.81	135.00	127.08
3	M	1301	DTP	N3-C4-N9	4.81	135.00	127.08
3	E	1301	DTP	N3-C4-N9	4.80	135.00	127.08
3	C	1301	DTP	N3-C4-N9	4.80	134.98	127.08
3	A	1301	DTP	N3-C4-N9	4.79	134.98	127.08
5	J	201	HEM	CHC-C4B-NB	4.72	129.54	124.42
5	N	201	HEM	CHC-C4B-NB	4.71	129.53	124.42
5	L	201	HEM	CHC-C4B-NB	4.70	129.52	124.42
5	H	201	HEM	CHC-C4B-NB	4.69	129.51	124.42
5	D	201	HEM	CHC-C4B-NB	4.66	129.49	124.42
5	B	201	HEM	CHC-C4B-NB	4.65	129.47	124.42
5	N	201	HEM	C1B-NB-C4B	4.65	109.88	105.07
5	F	201	HEM	CHC-C4B-NB	4.65	129.47	124.42
5	L	201	HEM	C1B-NB-C4B	4.65	109.87	105.07
5	D	201	HEM	C1B-NB-C4B	4.64	109.86	105.07
5	B	201	HEM	C1B-NB-C4B	4.64	109.86	105.07
5	J	201	HEM	C1B-NB-C4B	4.63	109.86	105.07
5	H	201	HEM	C1B-NB-C4B	4.63	109.85	105.07
5	F	201	HEM	C1B-NB-C4B	4.61	109.83	105.07
5	L	201	HEM	C4C-NC-C1C	4.03	109.29	105.35
5	N	201	HEM	C4C-NC-C1C	4.00	109.26	105.35
5	J	201	HEM	C4C-NC-C1C	3.96	109.22	105.35
5	D	201	HEM	C4C-NC-C1C	3.93	109.20	105.35
5	F	201	HEM	C4C-NC-C1C	3.93	109.20	105.35
5	H	201	HEM	C4C-NC-C1C	3.93	109.20	105.35
5	B	201	HEM	C4C-NC-C1C	3.93	109.19	105.35
3	G	1301	DTP	C2-N3-C4	3.85	120.84	111.75
3	C	1301	DTP	C2-N3-C4	3.85	120.84	111.75
3	M	1301	DTP	C2-N3-C4	3.85	120.84	111.75
3	A	1301	DTP	C2-N3-C4	3.84	120.83	111.75
3	I	1301	DTP	C2-N3-C4	3.84	120.83	111.75
3	E	1301	DTP	C2-N3-C4	3.84	120.83	111.75
3	K	1301	DTP	C2-N3-C4	3.84	120.82	111.75
3	E	1301	DTP	PB-O3B-PG	-3.59	120.50	132.83
3	A	1301	DTP	PA-O3A-PB	-3.59	120.51	132.83
3	C	1301	DTP	PB-O3B-PG	-3.59	120.51	132.83
3	C	1301	DTP	PA-O3A-PB	-3.59	120.52	132.83
3	A	1301	DTP	PB-O3B-PG	-3.59	120.52	132.83
3	E	1301	DTP	PA-O3A-PB	-3.58	120.53	132.83
3	I	1301	DTP	PB-O3B-PG	-3.58	120.54	132.83

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	G	1301	DTP	PB-O3B-PG	-3.58	120.54	132.83
3	G	1301	DTP	PA-O3A-PB	-3.58	120.55	132.83
3	M	1301	DTP	PB-O3B-PG	-3.58	120.56	132.83
3	K	1301	DTP	PB-O3B-PG	-3.57	120.56	132.83
3	M	1301	DTP	PA-O3A-PB	-3.57	120.56	132.83
3	K	1301	DTP	PA-O3A-PB	-3.57	120.56	132.83
3	I	1301	DTP	PA-O3A-PB	-3.57	120.59	132.83
5	J	201	HEM	CHD-C1D-ND	3.48	128.20	124.42
5	H	201	HEM	CHD-C1D-ND	3.47	128.18	124.42
5	F	201	HEM	CHD-C1D-ND	3.46	128.17	124.42
5	L	201	HEM	CHD-C1D-ND	3.45	128.17	124.42
5	N	201	HEM	CHD-C1D-ND	3.45	128.17	124.42
5	B	201	HEM	CHD-C1D-ND	3.44	128.16	124.42
5	D	201	HEM	CHD-C1D-ND	3.44	128.16	124.42
3	M	1301	DTP	C4-C5-N7	-3.35	106.53	110.62
3	C	1301	DTP	C4-C5-N7	-3.34	106.55	110.62
3	E	1301	DTP	C4-C5-N7	-3.33	106.56	110.62
3	G	1301	DTP	C4-C5-N7	-3.33	106.56	110.62
3	A	1301	DTP	C4-C5-N7	-3.33	106.56	110.62
3	K	1301	DTP	C4-C5-N7	-3.33	106.56	110.62
3	I	1301	DTP	C4-C5-N7	-3.33	106.57	110.62
5	N	201	HEM	CHA-C4D-ND	3.28	128.42	124.37
5	D	201	HEM	CHA-C4D-ND	3.28	128.42	124.37
5	F	201	HEM	CHA-C4D-ND	3.28	128.42	124.37
5	L	201	HEM	CHA-C4D-ND	3.27	128.41	124.37
5	J	201	HEM	CHA-C4D-ND	3.26	128.40	124.37
5	H	201	HEM	CHA-C4D-ND	3.26	128.39	124.37
5	B	201	HEM	CHA-C4D-ND	3.25	128.38	124.37
3	C	1301	DTP	N3-C2-N1	-3.14	123.70	128.60
3	A	1301	DTP	N3-C2-N1	-3.13	123.71	128.60
3	G	1301	DTP	N3-C2-N1	-3.13	123.71	128.60
3	E	1301	DTP	N3-C2-N1	-3.12	123.72	128.60
3	M	1301	DTP	N3-C2-N1	-3.12	123.72	128.60
3	K	1301	DTP	N3-C2-N1	-3.12	123.72	128.60
3	I	1301	DTP	N3-C2-N1	-3.12	123.72	128.60
5	F	201	HEM	C4D-ND-C1D	3.10	108.28	105.07
5	D	201	HEM	C4D-ND-C1D	3.10	108.27	105.07
5	J	201	HEM	C4D-ND-C1D	3.09	108.27	105.07
5	N	201	HEM	C4D-ND-C1D	3.09	108.27	105.07
5	L	201	HEM	C4D-ND-C1D	3.08	108.26	105.07
5	H	201	HEM	C4D-ND-C1D	3.08	108.25	105.07
5	B	201	HEM	C4D-ND-C1D	3.07	108.25	105.07

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A	1301	DTP	C5-N7-C8	2.79	107.47	103.51
3	E	1301	DTP	C5-N7-C8	2.78	107.47	103.51
3	C	1301	DTP	C5-N7-C8	2.78	107.46	103.51
3	G	1301	DTP	C5-N7-C8	2.76	107.43	103.51
3	I	1301	DTP	C5-N7-C8	2.74	107.41	103.51
3	M	1301	DTP	C5-N7-C8	2.73	107.39	103.51
3	K	1301	DTP	C5-N7-C8	2.72	107.38	103.51
5	B	201	HEM	CHB-C1B-NB	2.69	127.69	124.37
5	N	201	HEM	CHB-C1B-NB	2.68	127.67	124.37
5	N	201	HEM	C4A-NA-C1A	2.67	107.96	105.35
5	D	201	HEM	CHB-C1B-NB	2.67	127.66	124.37
5	L	201	HEM	CHB-C1B-NB	2.67	127.66	124.37
5	L	201	HEM	C4A-NA-C1A	2.67	107.96	105.35
5	J	201	HEM	C4A-NA-C1A	2.66	107.95	105.35
5	F	201	HEM	C4A-NA-C1A	2.65	107.94	105.35
5	F	201	HEM	CHB-C1B-NB	2.64	127.64	124.37
5	H	201	HEM	CHB-C1B-NB	2.64	127.63	124.37
5	B	201	HEM	C4A-NA-C1A	2.64	107.93	105.35
5	J	201	HEM	CHB-C1B-NB	2.63	127.62	124.37
5	H	201	HEM	C4A-NA-C1A	2.63	107.92	105.35
5	D	201	HEM	C4A-NA-C1A	2.63	107.92	105.35
5	J	201	HEM	C4C-CHD-C1D	-2.58	120.50	126.06
5	L	201	HEM	C4C-CHD-C1D	-2.58	120.50	126.06
3	I	1301	DTP	C4-N9-C8	2.58	108.52	105.73
5	N	201	HEM	C4C-CHD-C1D	-2.57	120.51	126.06
3	E	1301	DTP	C4-N9-C8	2.57	108.51	105.73
5	H	201	HEM	C4C-CHD-C1D	-2.56	120.53	126.06
3	G	1301	DTP	C4-N9-C8	2.56	108.50	105.73
3	K	1301	DTP	C4-N9-C8	2.55	108.50	105.73
3	M	1301	DTP	C4-N9-C8	2.55	108.49	105.73
5	F	201	HEM	C4C-CHD-C1D	-2.54	120.57	126.06
3	A	1301	DTP	C4-N9-C8	2.54	108.48	105.73
3	C	1301	DTP	C4-N9-C8	2.54	108.48	105.73
5	B	201	HEM	C4C-CHD-C1D	-2.54	120.57	126.06
5	D	201	HEM	C4C-CHD-C1D	-2.54	120.58	126.06
5	L	201	HEM	C4A-CHB-C1B	-2.46	120.51	126.34
5	N	201	HEM	C4A-CHB-C1B	-2.45	120.53	126.34
5	J	201	HEM	C4A-CHB-C1B	-2.44	120.55	126.34
5	H	201	HEM	C4A-CHB-C1B	-2.42	120.59	126.34
5	B	201	HEM	C4A-CHB-C1B	-2.42	120.60	126.34
5	F	201	HEM	C4A-CHB-C1B	-2.42	120.61	126.34
5	D	201	HEM	C4A-CHB-C1B	-2.41	120.62	126.34

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	N	201	HEM	C1A-CHA-C4D	-2.34	120.80	126.34
5	F	201	HEM	C1A-CHA-C4D	-2.33	120.80	126.34
5	H	201	HEM	C1A-CHA-C4D	-2.33	120.80	126.34
5	D	201	HEM	C1A-CHA-C4D	-2.33	120.80	126.34
5	B	201	HEM	C1A-CHA-C4D	-2.33	120.81	126.34
5	L	201	HEM	C1A-CHA-C4D	-2.33	120.82	126.34
5	J	201	HEM	C1A-CHA-C4D	-2.33	120.82	126.34
3	G	1301	DTP	C6-C5-N7	2.20	136.13	132.02
3	E	1301	DTP	C6-C5-N7	2.20	136.12	132.02
3	C	1301	DTP	C6-C5-N7	2.20	136.11	132.02
3	I	1301	DTP	C6-C5-N7	2.20	136.11	132.02
3	A	1301	DTP	C6-C5-N7	2.19	136.11	132.02
3	K	1301	DTP	C6-C5-N7	2.19	136.10	132.02
3	M	1301	DTP	C6-C5-N7	2.19	136.10	132.02
3	A	1301	DTP	N9-C8-N7	-2.03	111.13	113.91
3	C	1301	DTP	N9-C8-N7	-2.02	111.14	113.91
3	E	1301	DTP	N9-C8-N7	-2.02	111.15	113.91

There are no chirality outliers.

All (84) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	A	1301	DTP	C5'-O5'-PA-O2A
3	A	1301	DTP	C5'-O5'-PA-O3A
3	A	1301	DTP	O4'-C1'-N9-C8
3	A	1301	DTP	O4'-C1'-N9-C4
3	C	1301	DTP	C5'-O5'-PA-O2A
3	C	1301	DTP	C5'-O5'-PA-O3A
3	C	1301	DTP	O4'-C1'-N9-C8
3	C	1301	DTP	O4'-C1'-N9-C4
3	E	1301	DTP	C5'-O5'-PA-O2A
3	E	1301	DTP	C5'-O5'-PA-O3A
3	E	1301	DTP	O4'-C1'-N9-C8
3	E	1301	DTP	O4'-C1'-N9-C4
3	G	1301	DTP	C5'-O5'-PA-O2A
3	G	1301	DTP	C5'-O5'-PA-O3A
3	G	1301	DTP	O4'-C1'-N9-C8
3	G	1301	DTP	O4'-C1'-N9-C4
3	I	1301	DTP	C5'-O5'-PA-O2A
3	I	1301	DTP	C5'-O5'-PA-O3A
3	I	1301	DTP	O4'-C1'-N9-C8
3	I	1301	DTP	O4'-C1'-N9-C4

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms
3	K	1301	DTP	C5'-O5'-PA-O2A
3	K	1301	DTP	C5'-O5'-PA-O3A
3	K	1301	DTP	O4'-C1'-N9-C8
3	K	1301	DTP	O4'-C1'-N9-C4
3	M	1301	DTP	C5'-O5'-PA-O2A
3	M	1301	DTP	C5'-O5'-PA-O3A
3	M	1301	DTP	O4'-C1'-N9-C8
3	M	1301	DTP	O4'-C1'-N9-C4
3	A	1301	DTP	O4'-C4'-C5'-O5'
3	A	1301	DTP	C3'-C4'-C5'-O5'
3	C	1301	DTP	O4'-C4'-C5'-O5'
3	C	1301	DTP	C3'-C4'-C5'-O5'
3	E	1301	DTP	O4'-C4'-C5'-O5'
3	E	1301	DTP	C3'-C4'-C5'-O5'
3	G	1301	DTP	O4'-C4'-C5'-O5'
3	G	1301	DTP	C3'-C4'-C5'-O5'
3	I	1301	DTP	O4'-C4'-C5'-O5'
3	I	1301	DTP	C3'-C4'-C5'-O5'
3	K	1301	DTP	O4'-C4'-C5'-O5'
3	K	1301	DTP	C3'-C4'-C5'-O5'
3	M	1301	DTP	O4'-C4'-C5'-O5'
3	M	1301	DTP	C3'-C4'-C5'-O5'
5	B	201	HEM	C2B-C3B-CAB-CBB
5	D	201	HEM	C2B-C3B-CAB-CBB
5	F	201	HEM	C2B-C3B-CAB-CBB
5	H	201	HEM	C2B-C3B-CAB-CBB
5	J	201	HEM	C2B-C3B-CAB-CBB
5	L	201	HEM	C2B-C3B-CAB-CBB
5	N	201	HEM	C2B-C3B-CAB-CBB
5	B	201	HEM	C4B-C3B-CAB-CBB
5	D	201	HEM	C4B-C3B-CAB-CBB
5	F	201	HEM	C4B-C3B-CAB-CBB
5	H	201	HEM	C4B-C3B-CAB-CBB
5	J	201	HEM	C4B-C3B-CAB-CBB
5	L	201	HEM	C4B-C3B-CAB-CBB
5	N	201	HEM	C4B-C3B-CAB-CBB
5	B	201	HEM	C2A-CAA-CBA-CGA
5	D	201	HEM	C2A-CAA-CBA-CGA
5	F	201	HEM	C2A-CAA-CBA-CGA
5	H	201	HEM	C2A-CAA-CBA-CGA
5	J	201	HEM	C2A-CAA-CBA-CGA
5	L	201	HEM	C2A-CAA-CBA-CGA

Continued on next page...

Continued from previous page...

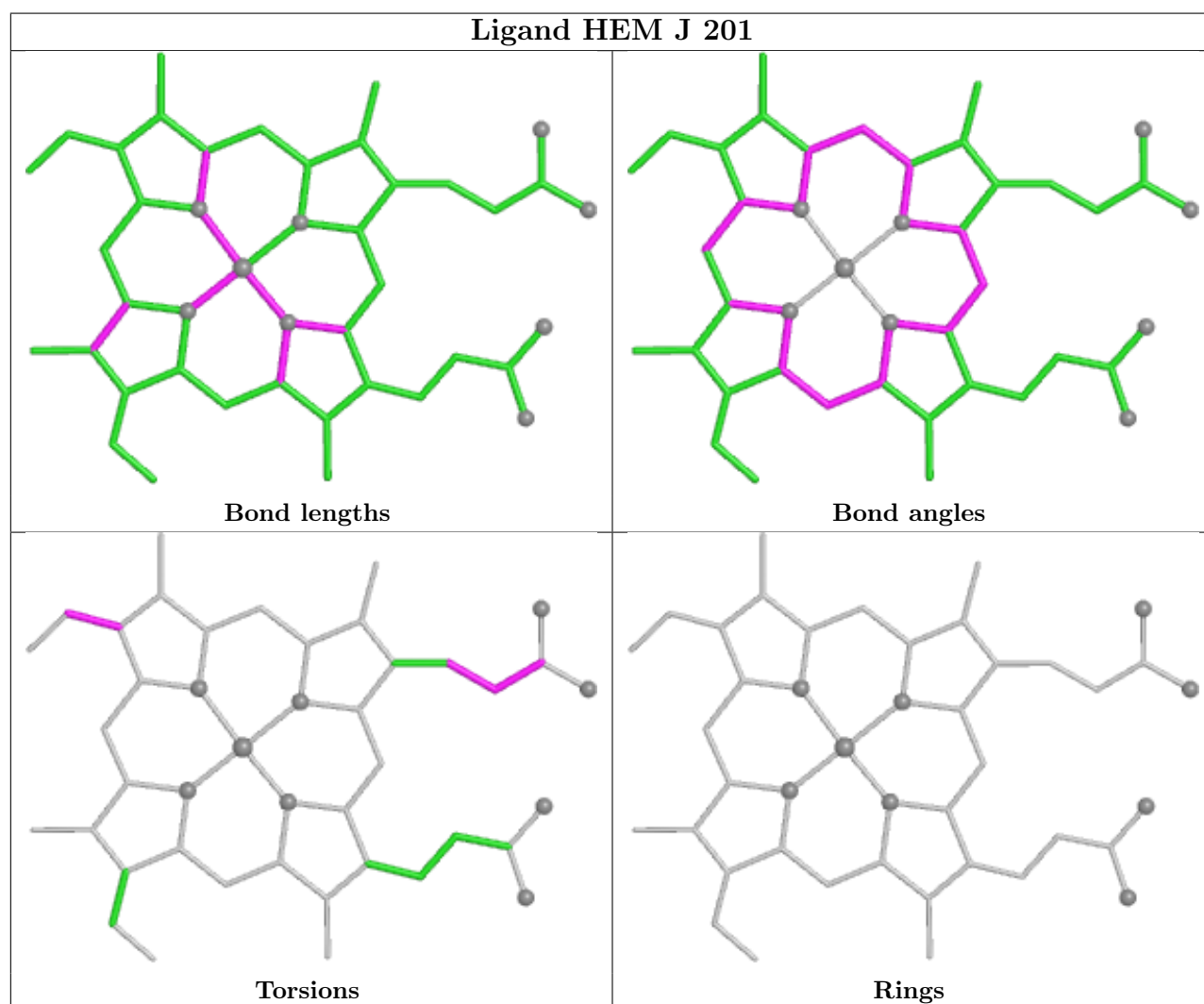
Mol	Chain	Res	Type	Atoms
5	N	201	HEM	C2A-CAA-CBA-CGA
5	B	201	HEM	CAA-CBA-CGA-O1A
5	D	201	HEM	CAA-CBA-CGA-O1A
5	F	201	HEM	CAA-CBA-CGA-O1A
5	H	201	HEM	CAA-CBA-CGA-O1A
5	J	201	HEM	CAA-CBA-CGA-O1A
5	L	201	HEM	CAA-CBA-CGA-O1A
5	N	201	HEM	CAA-CBA-CGA-O1A
5	D	201	HEM	CAA-CBA-CGA-O2A
5	H	201	HEM	CAA-CBA-CGA-O2A
5	B	201	HEM	CAA-CBA-CGA-O2A
5	F	201	HEM	CAA-CBA-CGA-O2A
5	J	201	HEM	CAA-CBA-CGA-O2A
5	L	201	HEM	CAA-CBA-CGA-O2A
5	N	201	HEM	CAA-CBA-CGA-O2A
3	A	1301	DTP	C5'-O5'-PA-O1A
3	C	1301	DTP	C5'-O5'-PA-O1A
3	E	1301	DTP	C5'-O5'-PA-O1A
3	G	1301	DTP	C5'-O5'-PA-O1A
3	I	1301	DTP	C5'-O5'-PA-O1A
3	K	1301	DTP	C5'-O5'-PA-O1A
3	M	1301	DTP	C5'-O5'-PA-O1A

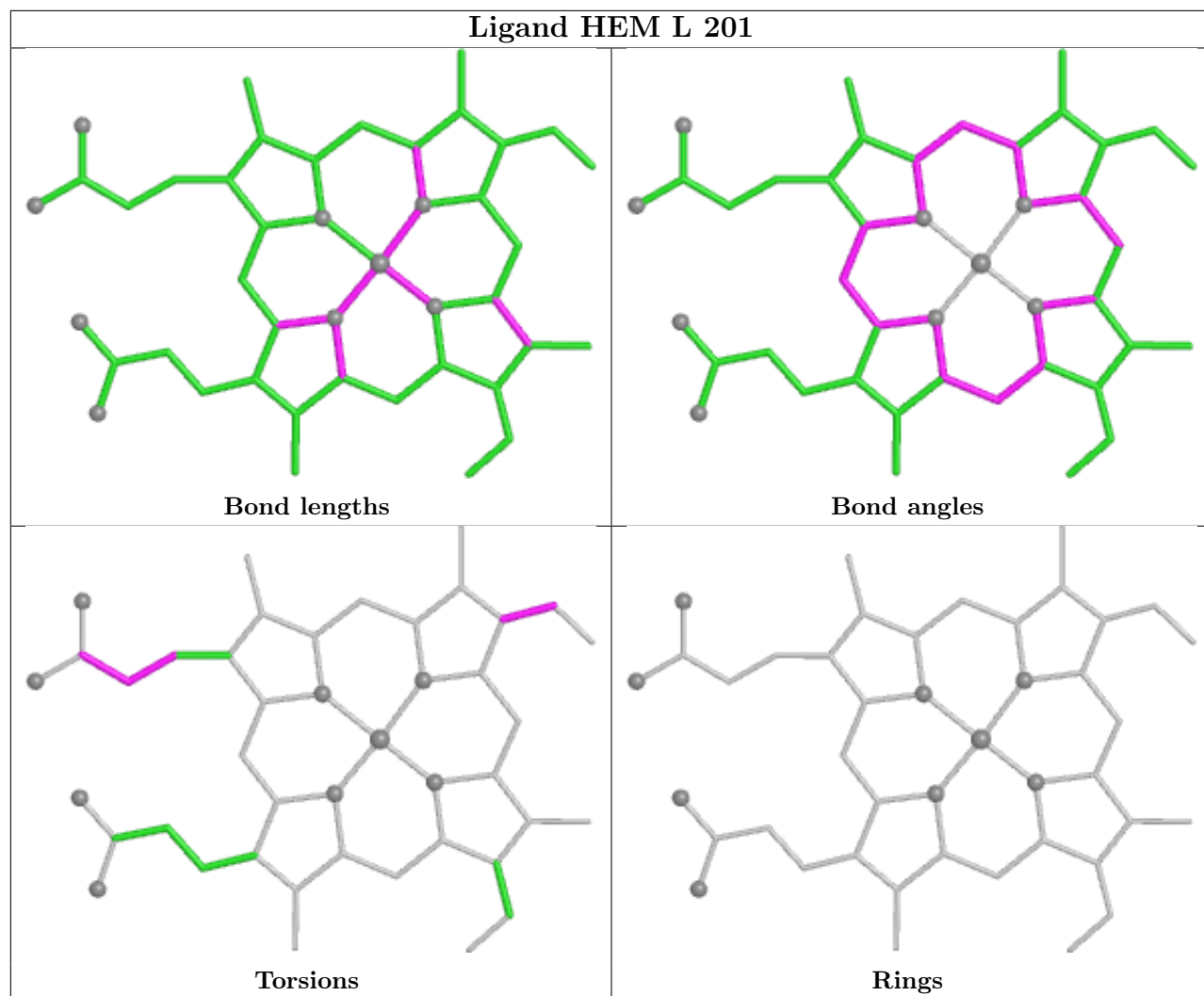
There are no ring outliers.

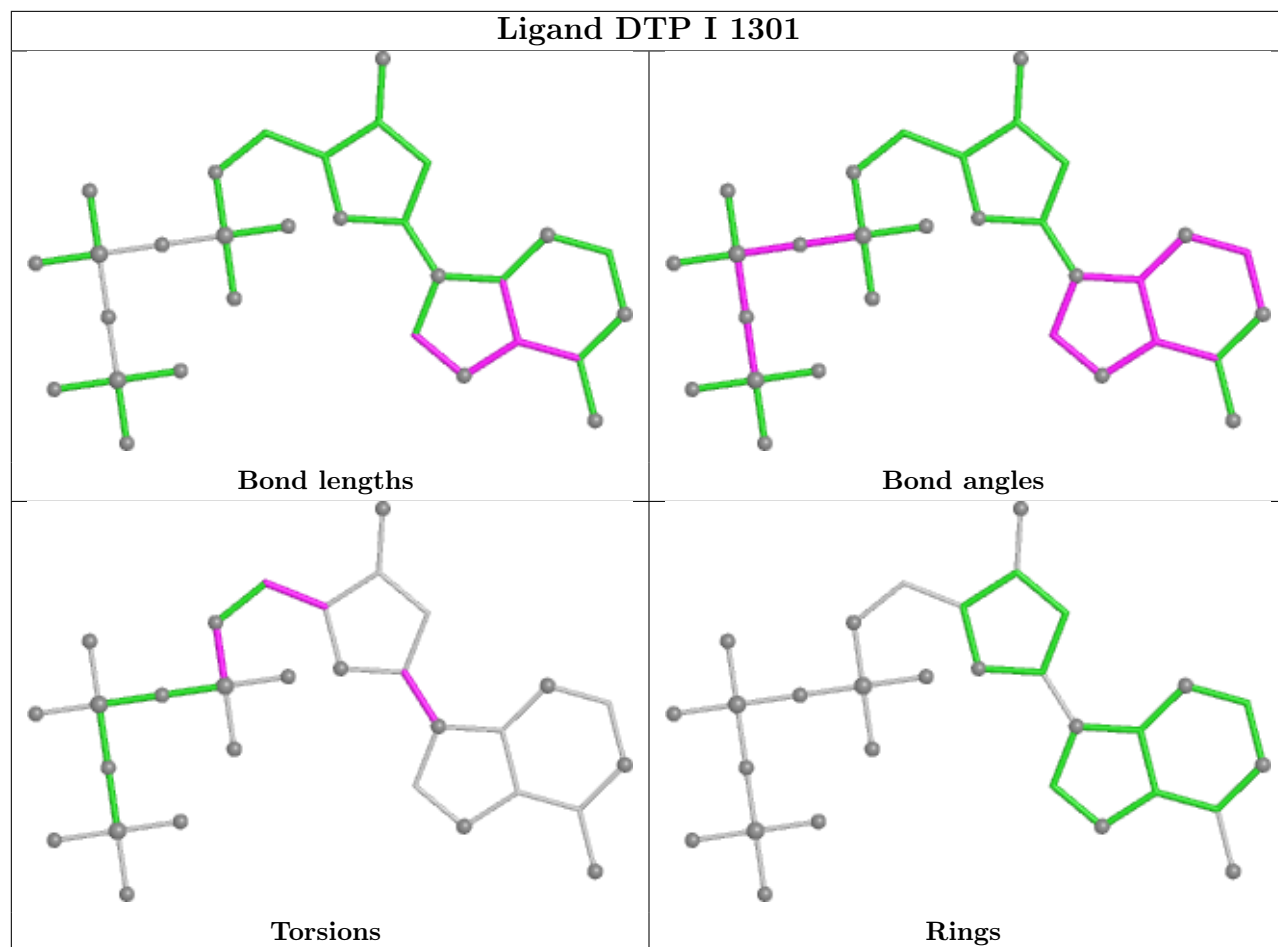
14 monomers are involved in 146 short contacts:

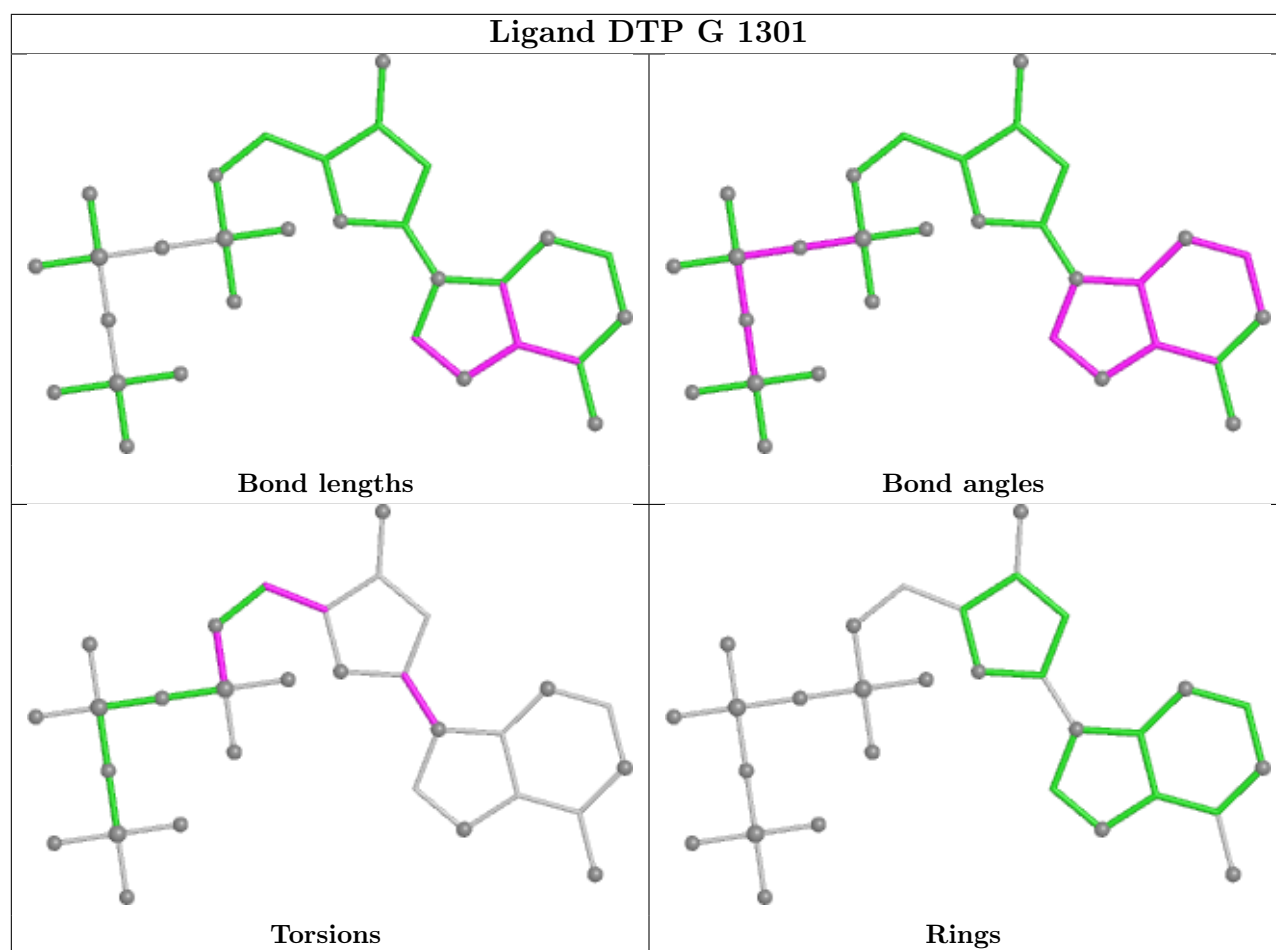
Mol	Chain	Res	Type	Clashes	Symm-Clashes
5	J	201	HEM	15	0
5	L	201	HEM	14	0
3	I	1301	DTP	7	0
3	G	1301	DTP	6	0
5	D	201	HEM	14	0
3	E	1301	DTP	6	0
5	B	201	HEM	15	0
5	N	201	HEM	14	0
5	H	201	HEM	16	0
3	A	1301	DTP	6	0
3	C	1301	DTP	6	0
3	M	1301	DTP	6	0
5	F	201	HEM	15	0
3	K	1301	DTP	6	0

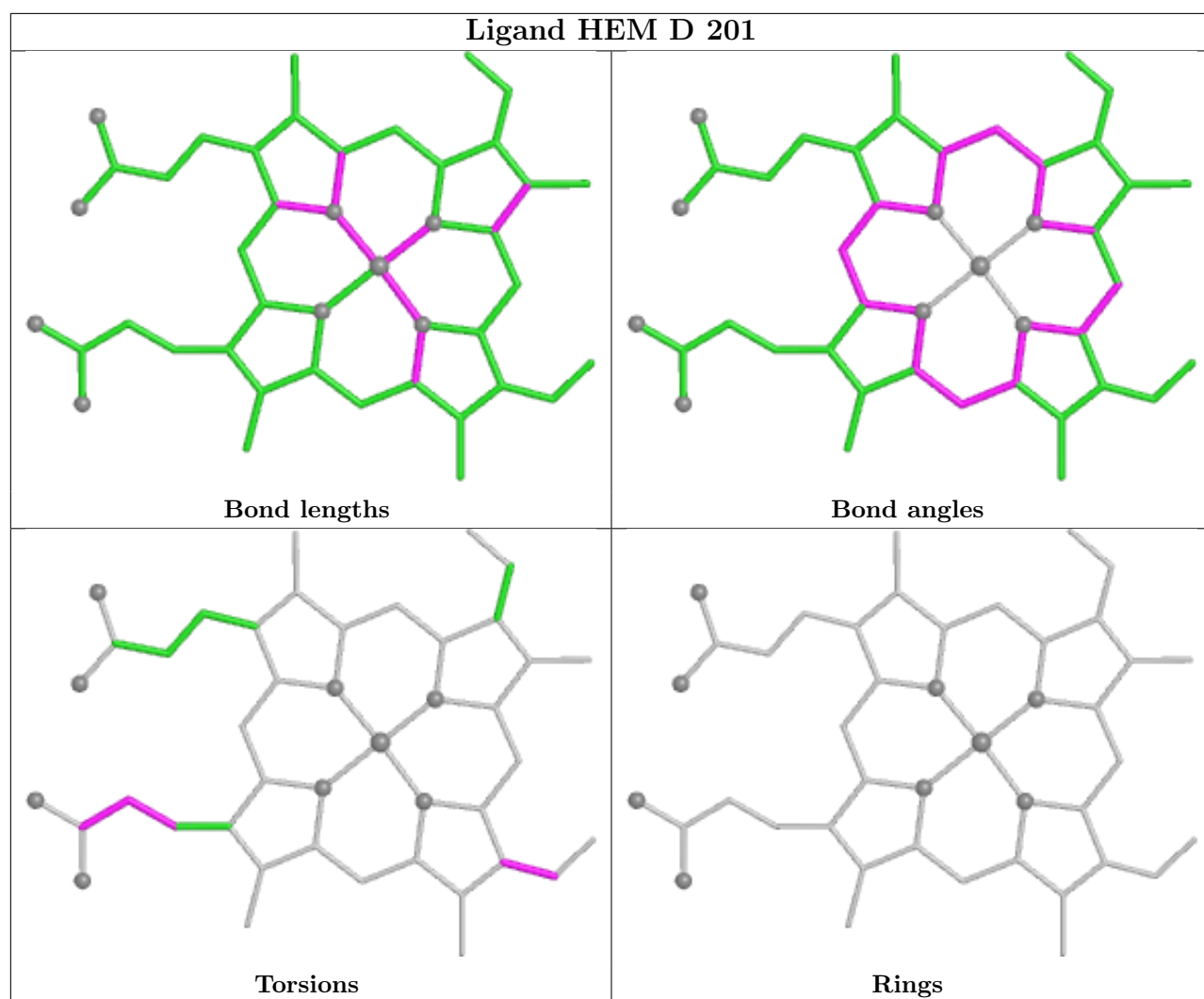
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.

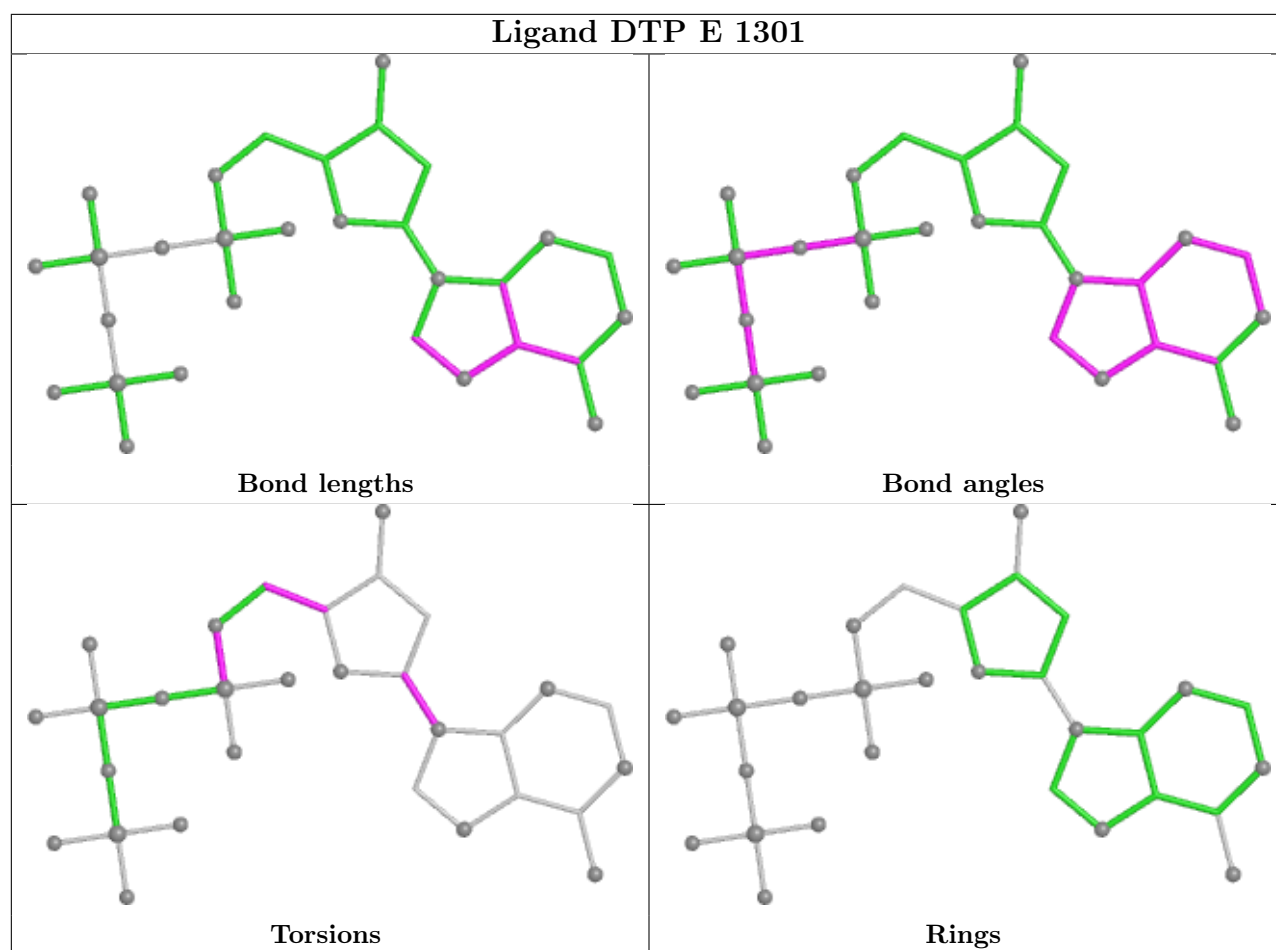


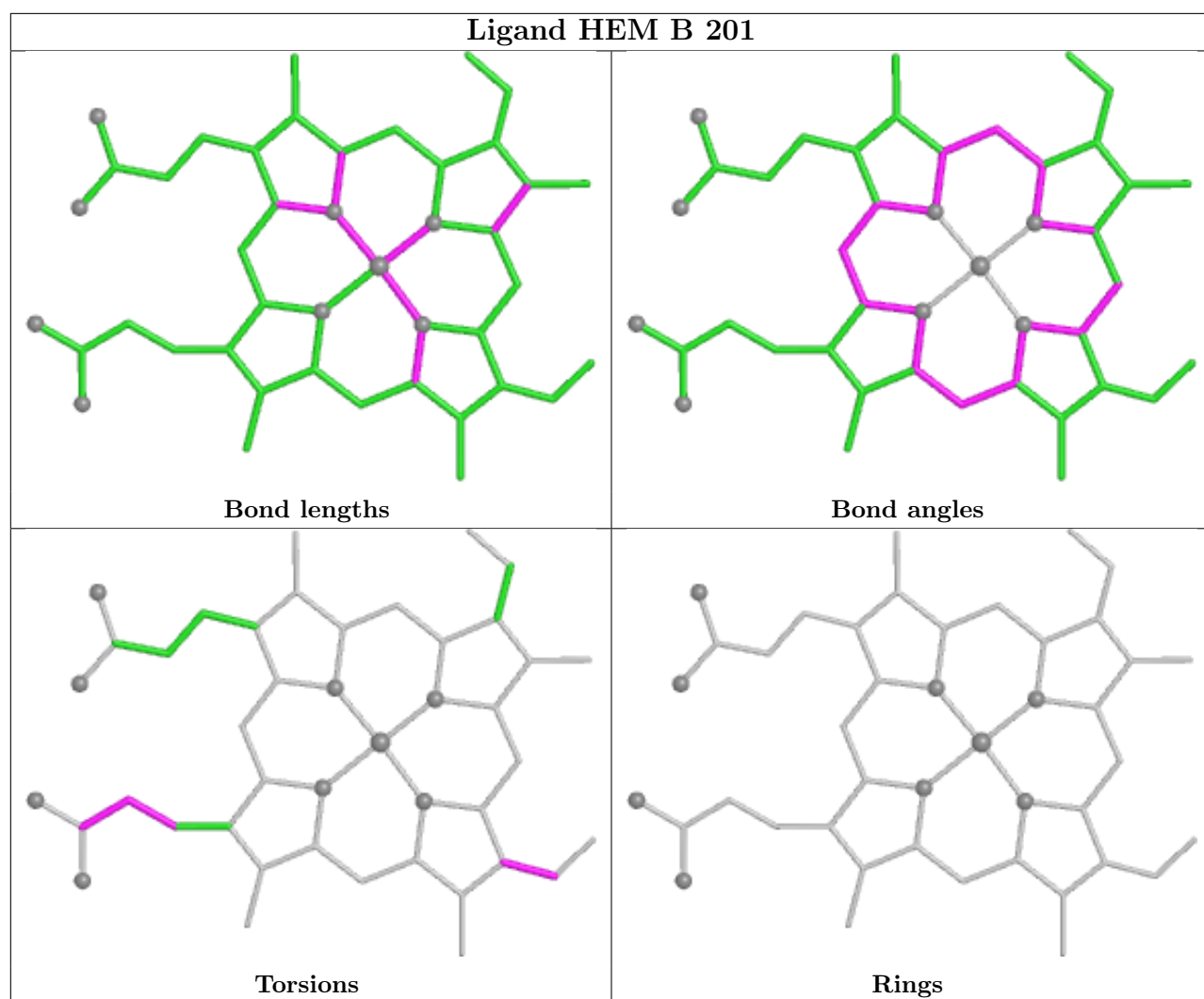


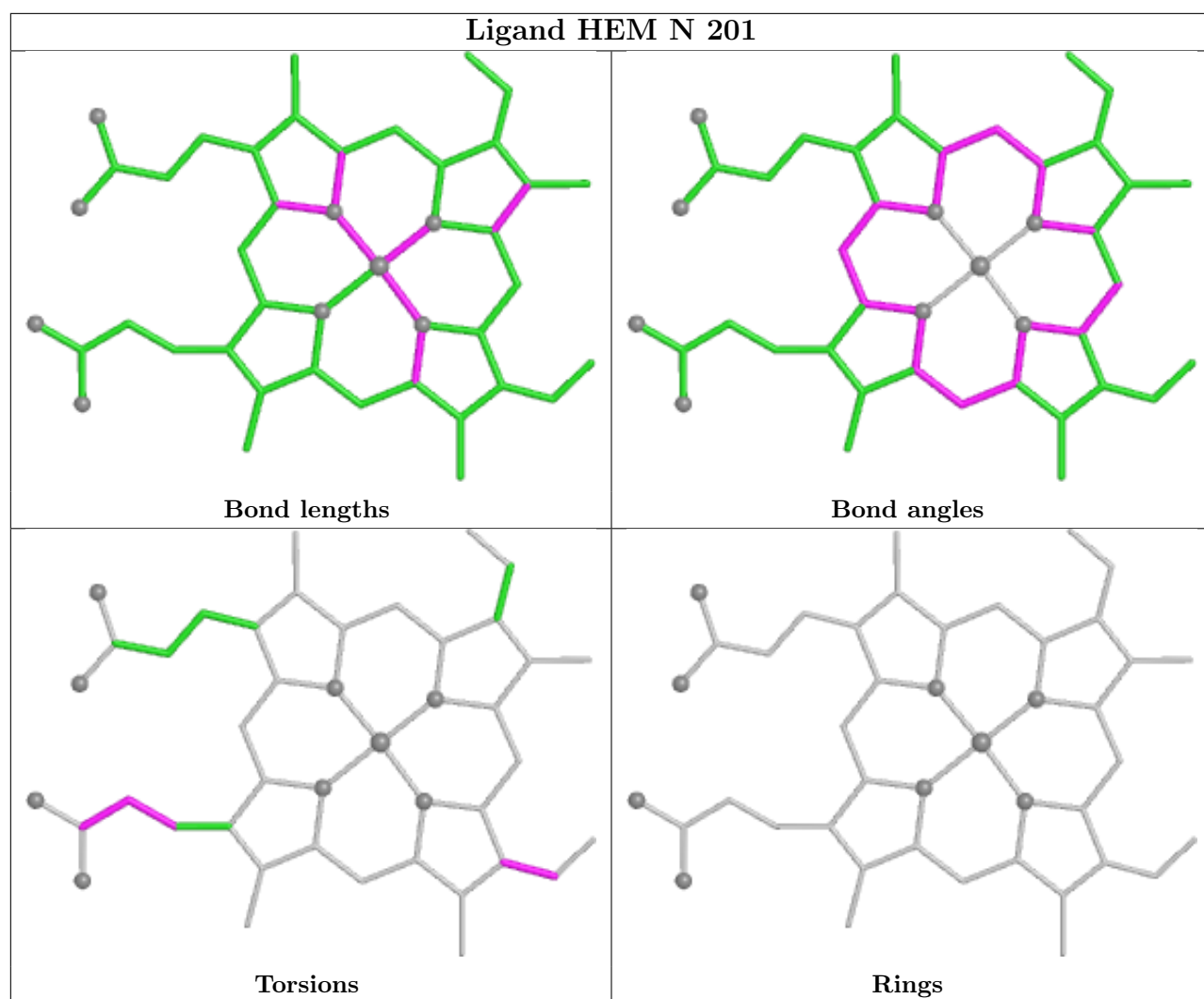


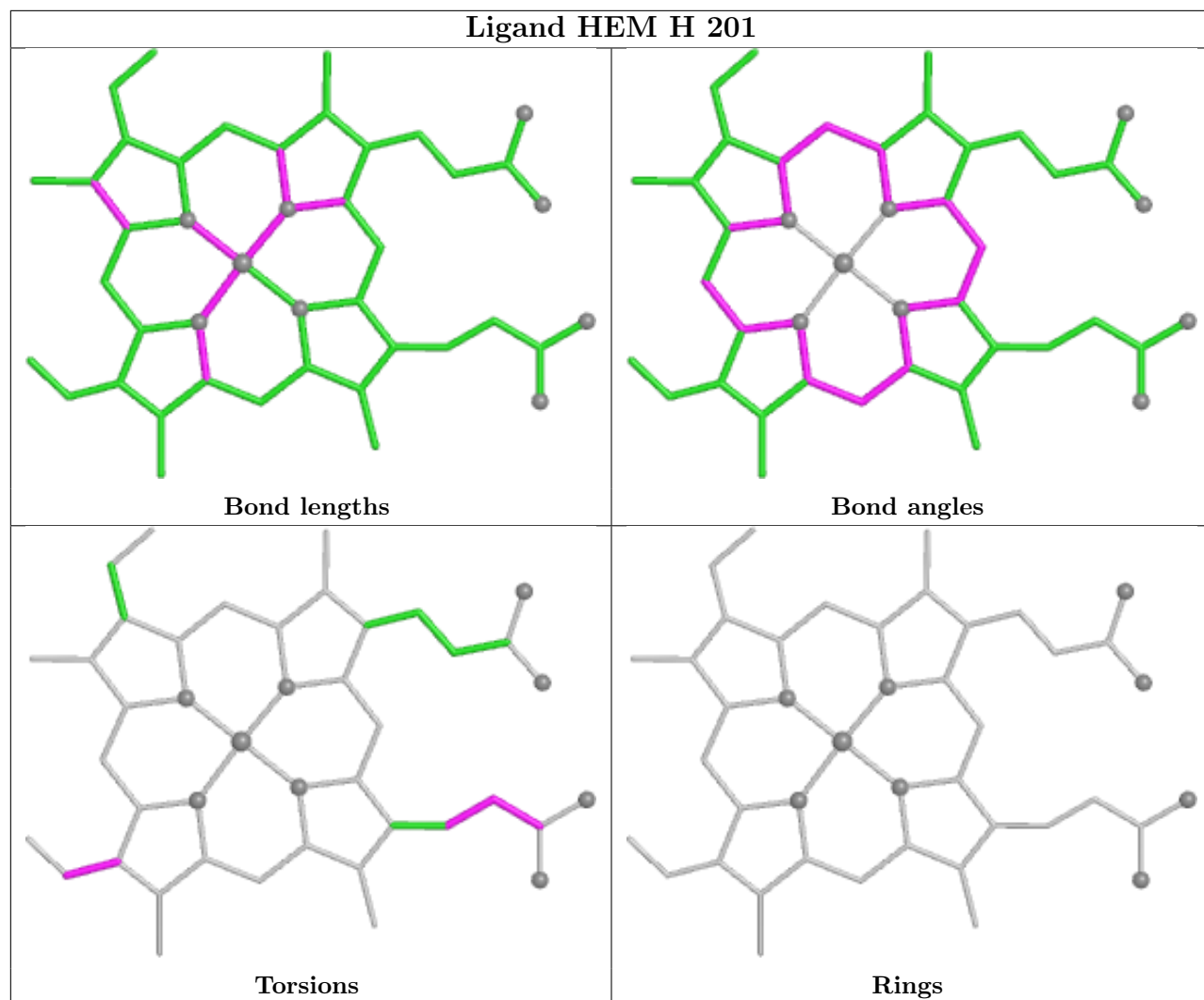


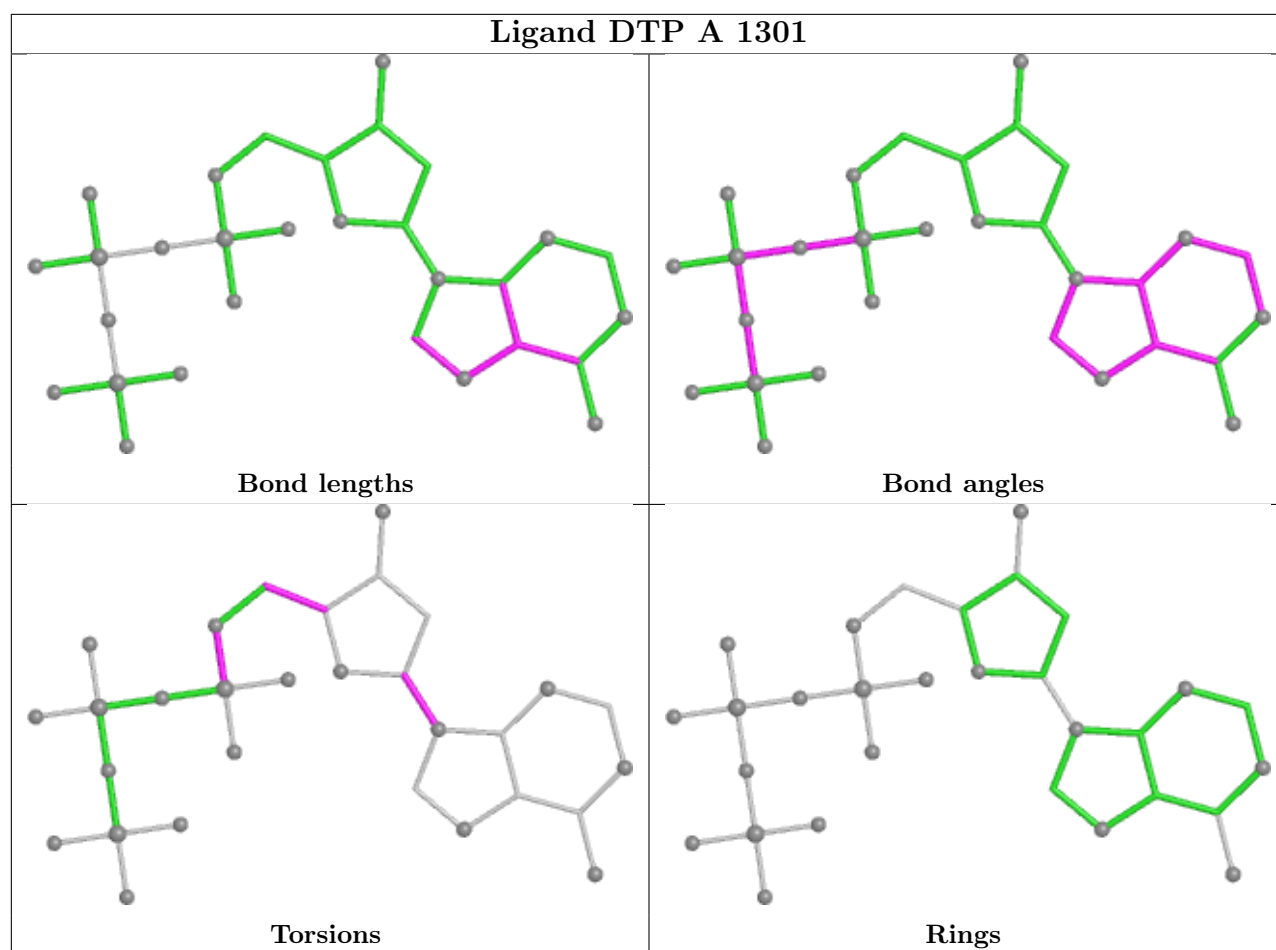


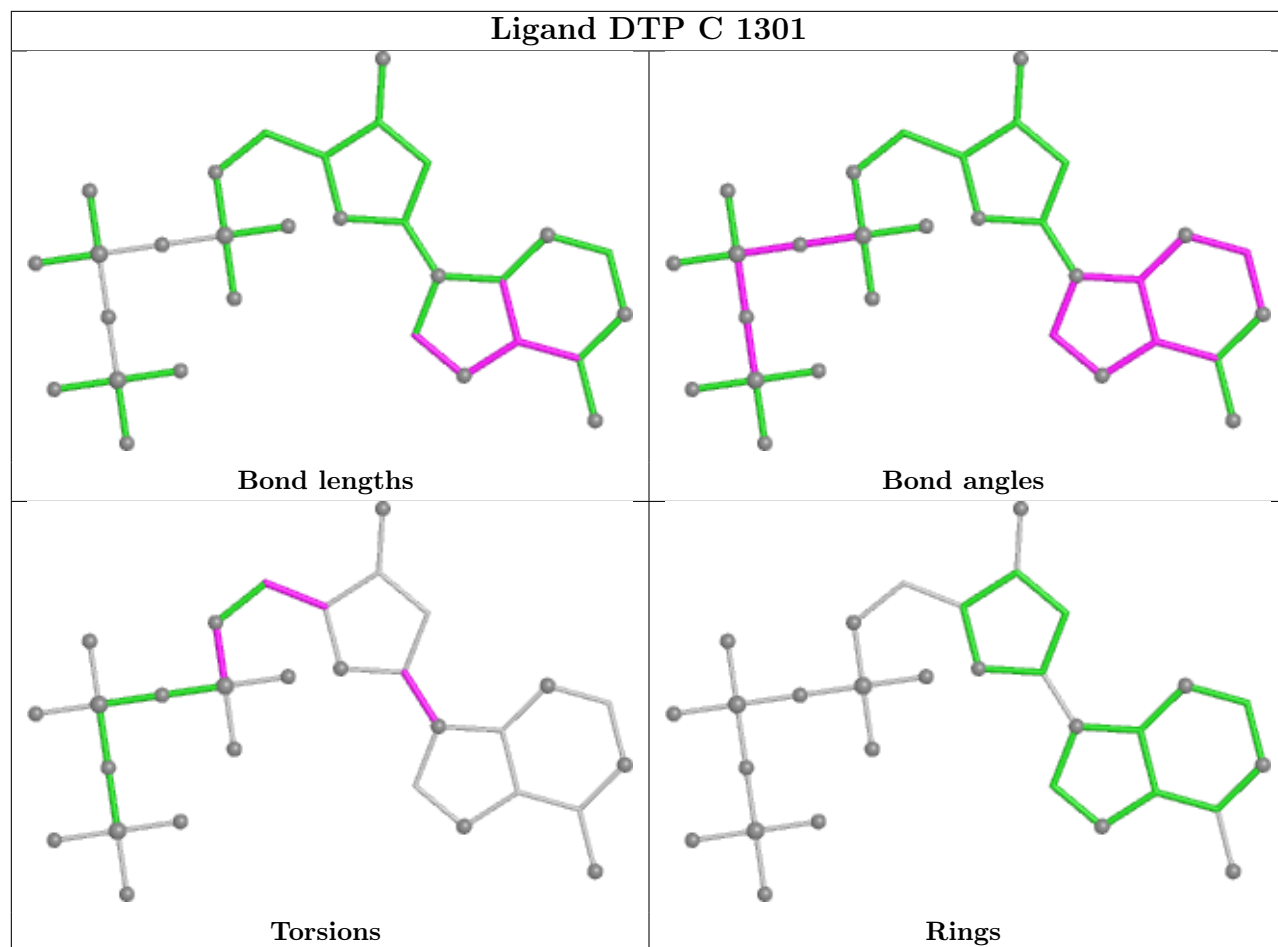


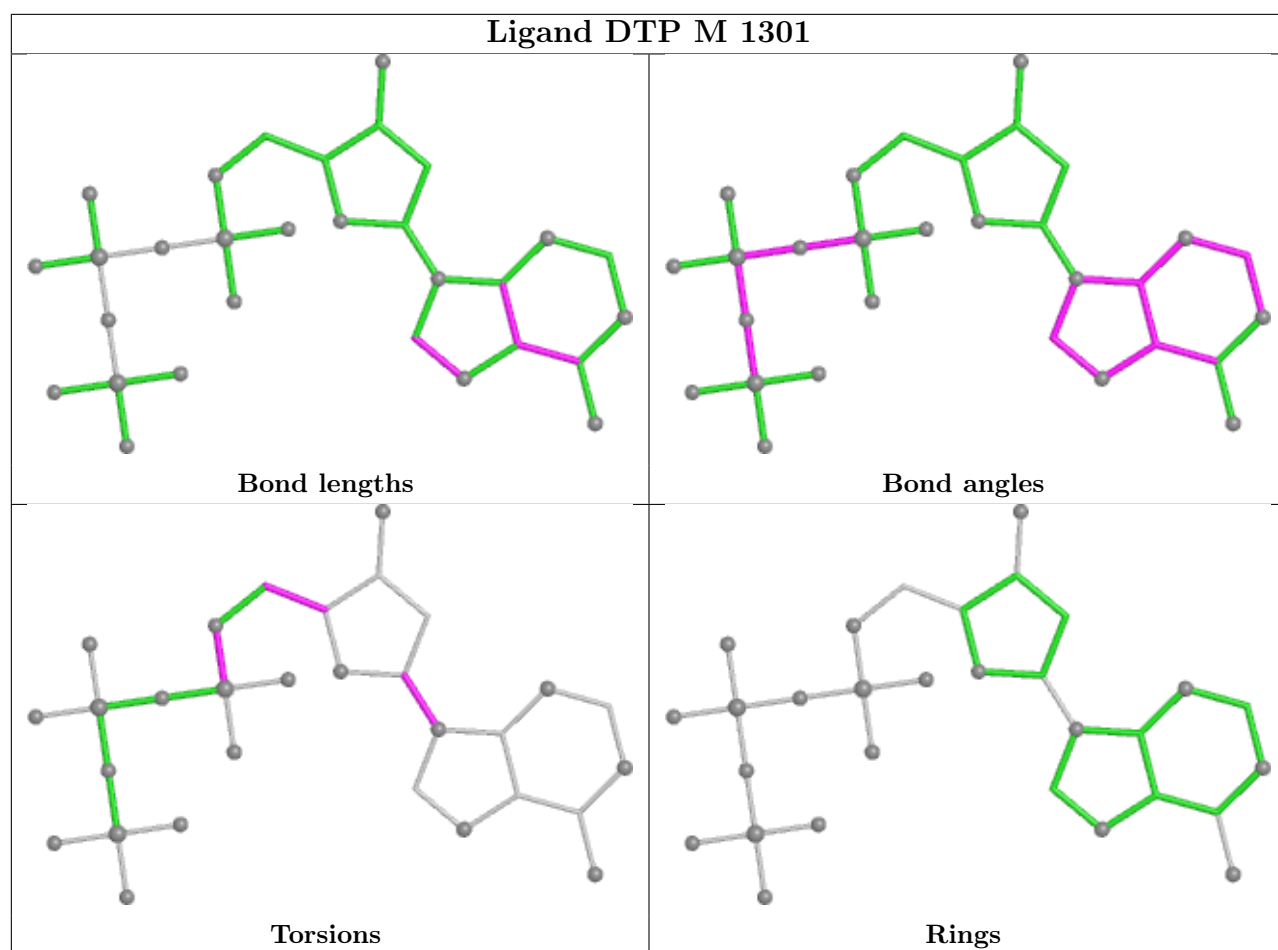


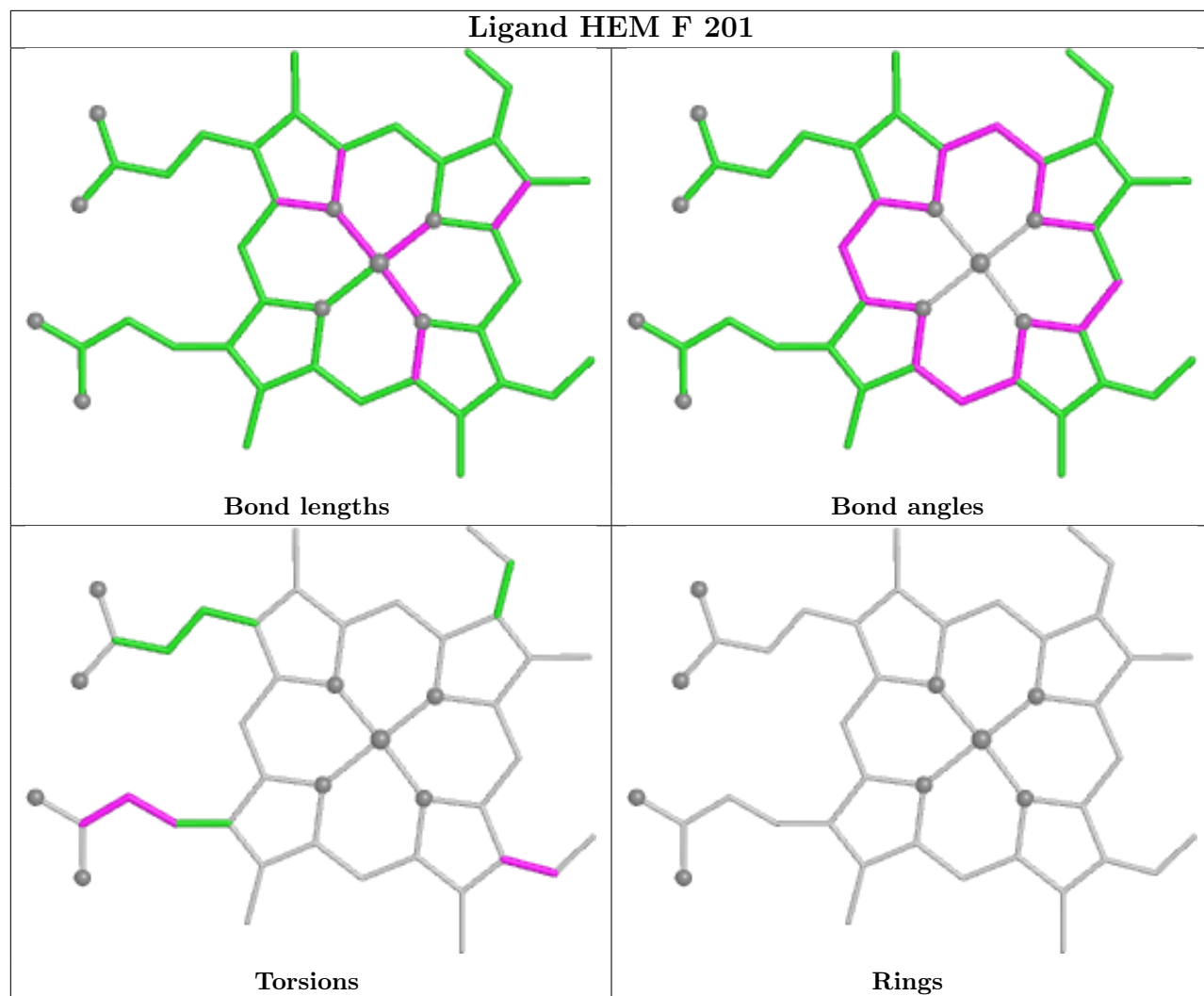


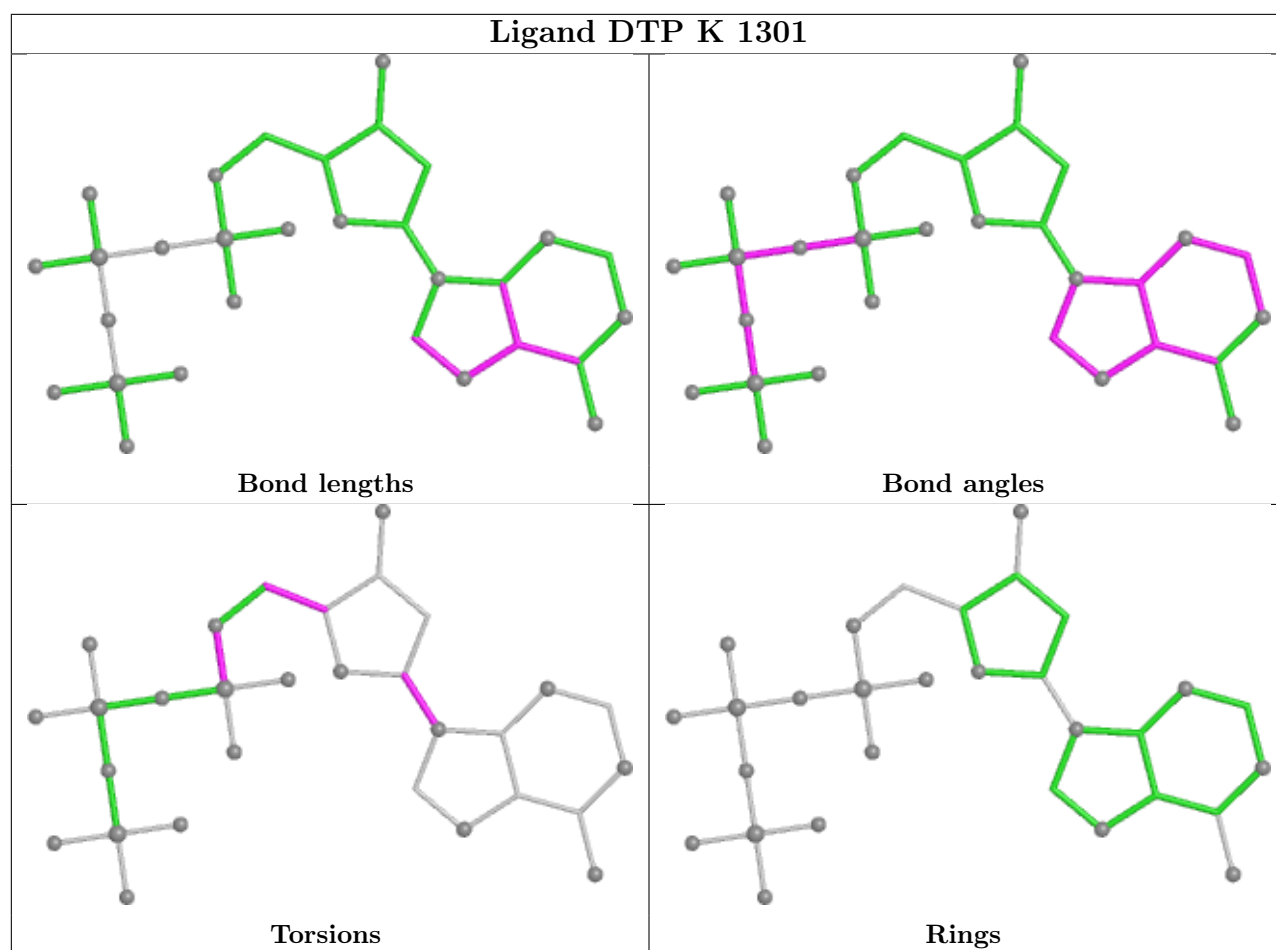












5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

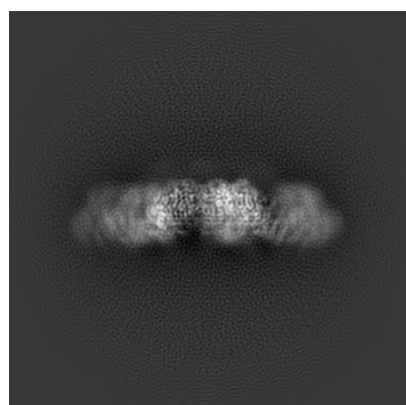
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-6480. These allow visual inspection of the internal detail of the map and identification of artifacts.

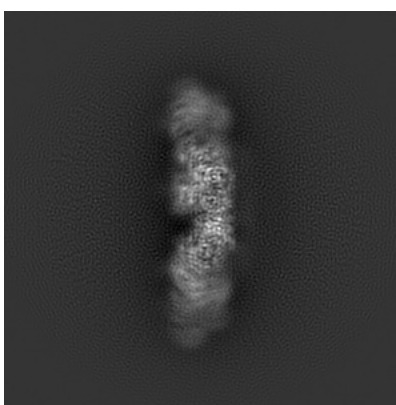
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

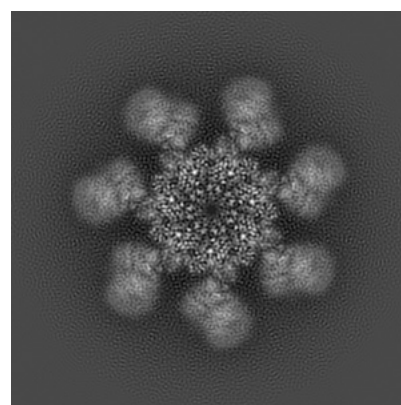
6.1.1 Primary map



X



Y



Z

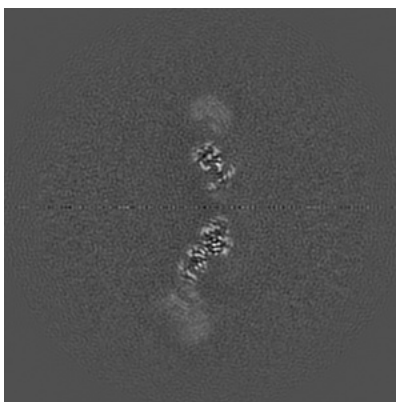
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

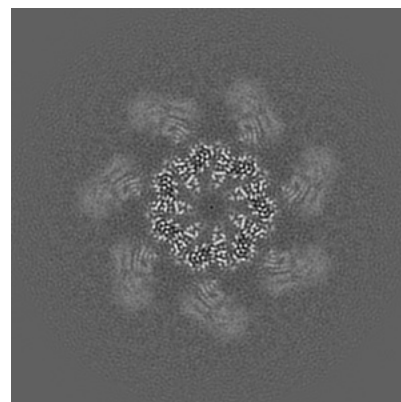
6.2.1 Primary map



X Index: 160



Y Index: 160

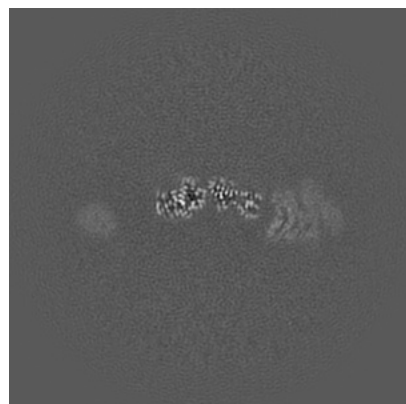


Z Index: 160

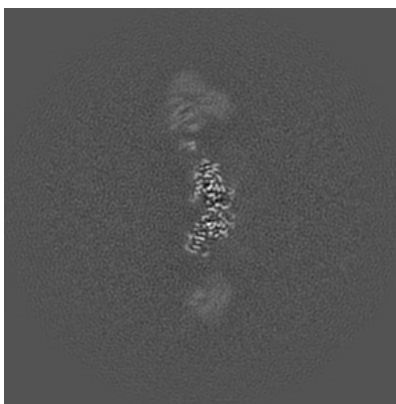
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

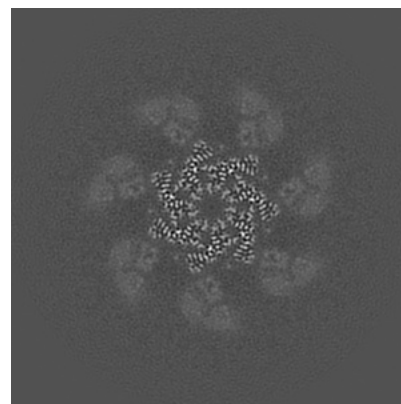
6.3.1 Primary map



X Index: 185



Y Index: 190

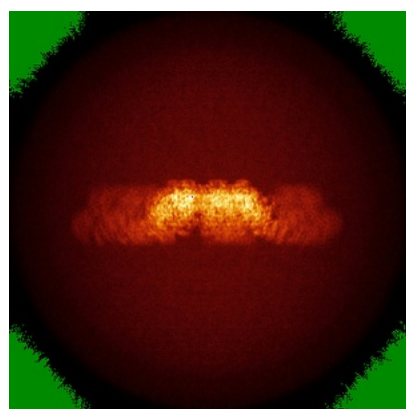


Z Index: 164

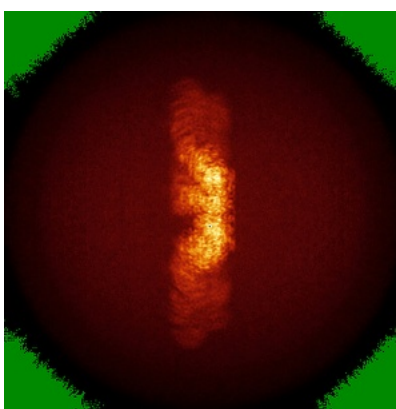
The images above show the largest variance slices of the map in three orthogonal directions.

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

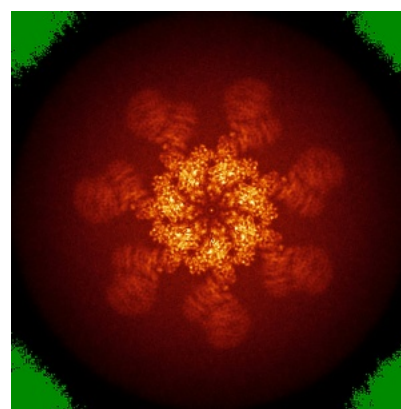
6.4.1 Primary map



X



Y

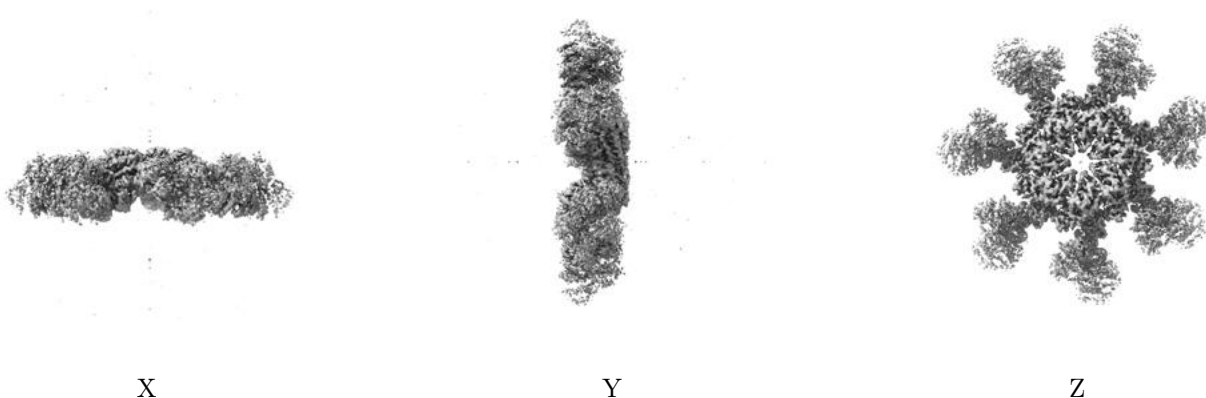


Z

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

6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.04. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

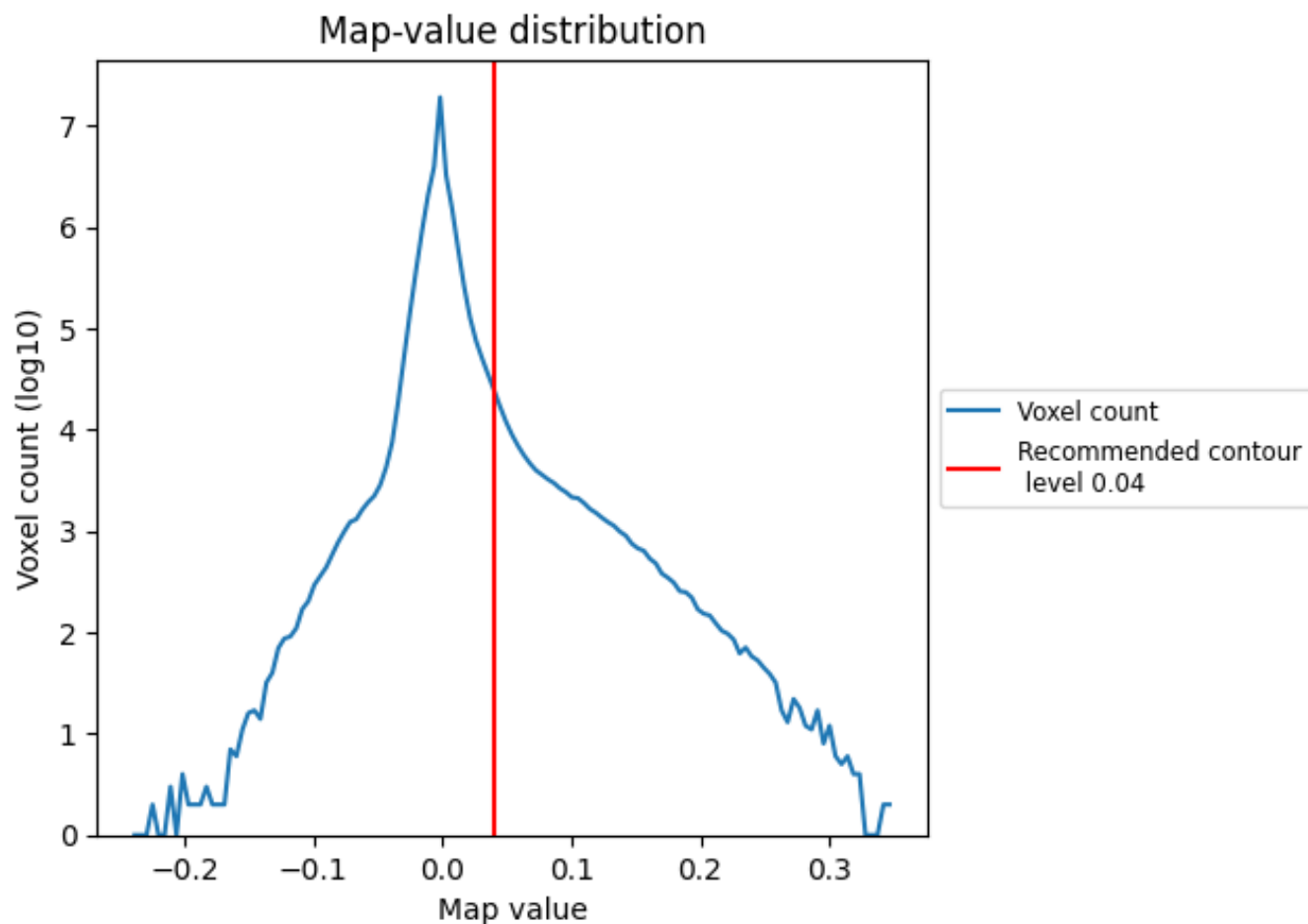
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

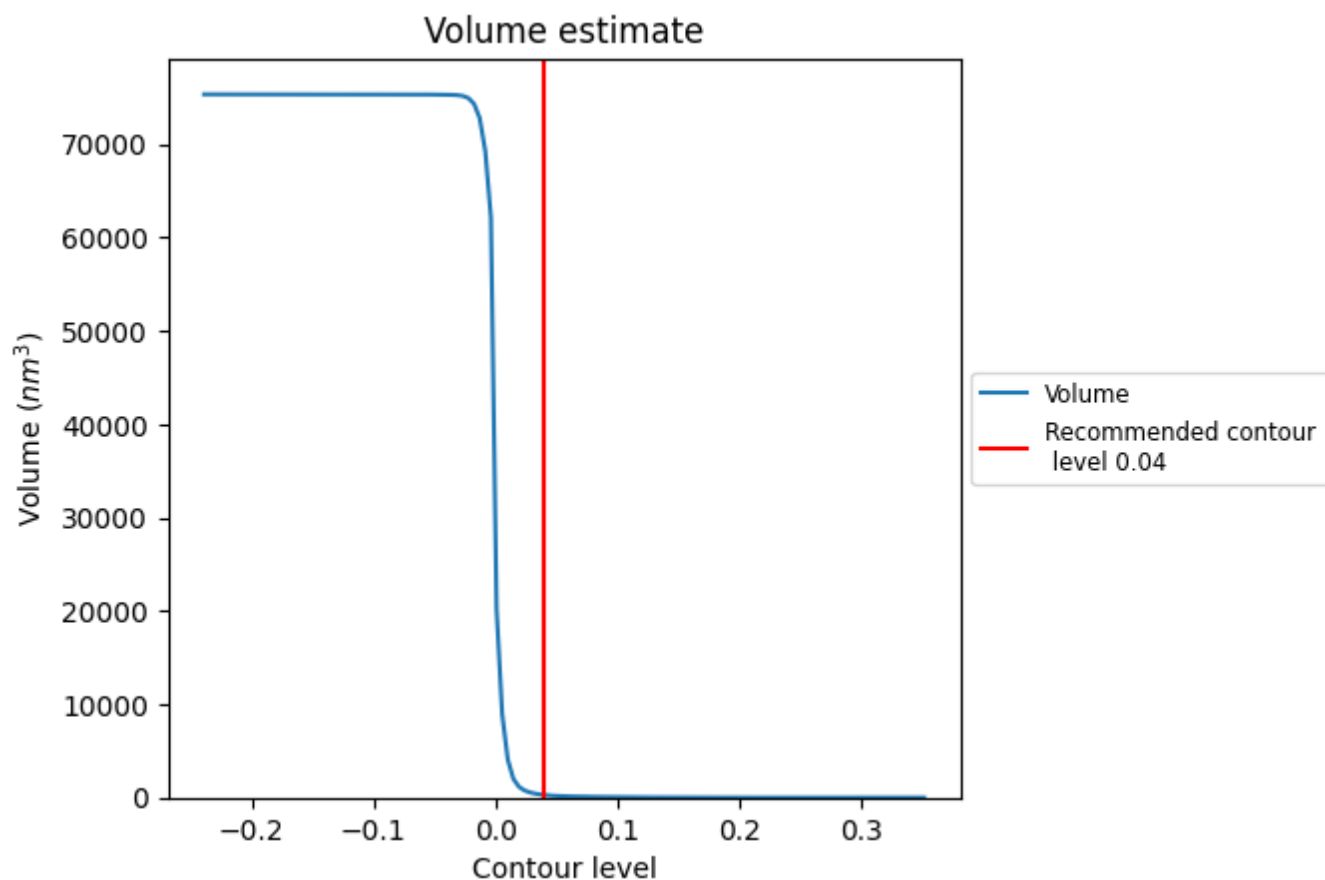
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



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

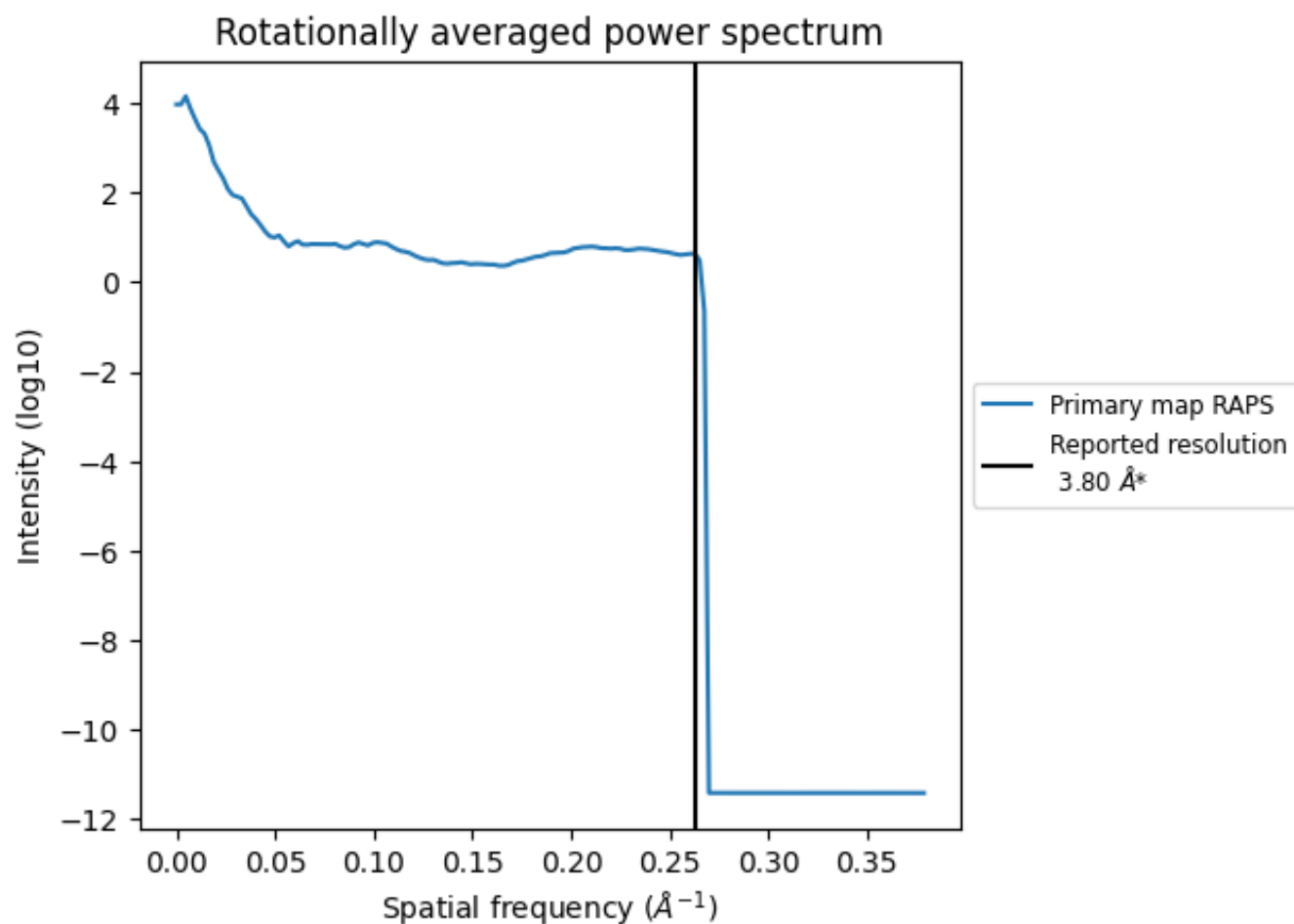
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 276 nm³; this corresponds to an approximate mass of 249 kDa.

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

7.3 Rotationally averaged power spectrum ⓘ



*Reported resolution corresponds to spatial frequency of 0.263 $\text{\AA}^{-1}$

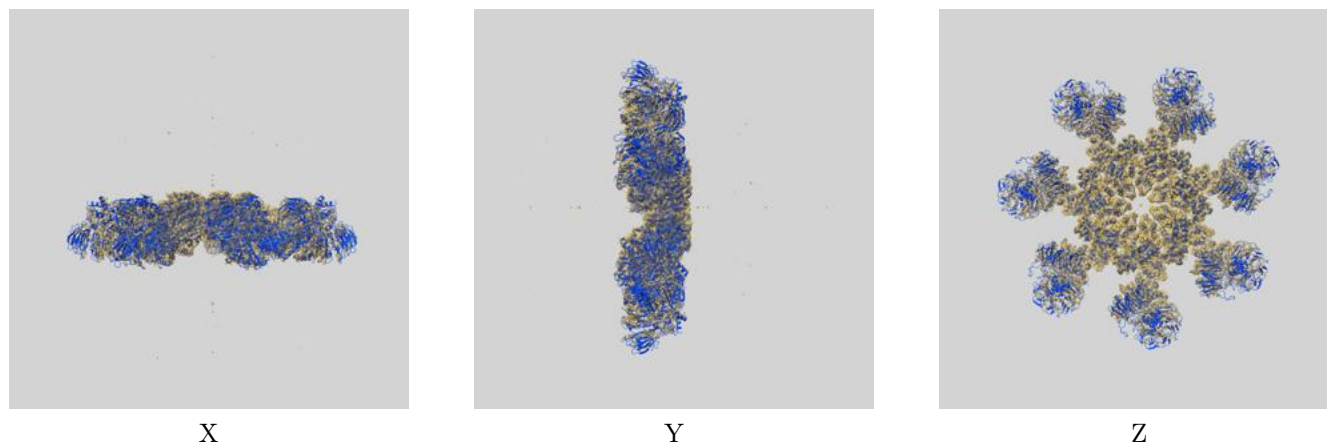
8 Fourier-Shell correlation

This section was not generated. No FSC curve or half-maps provided.

9 Map-model fit [i](#)

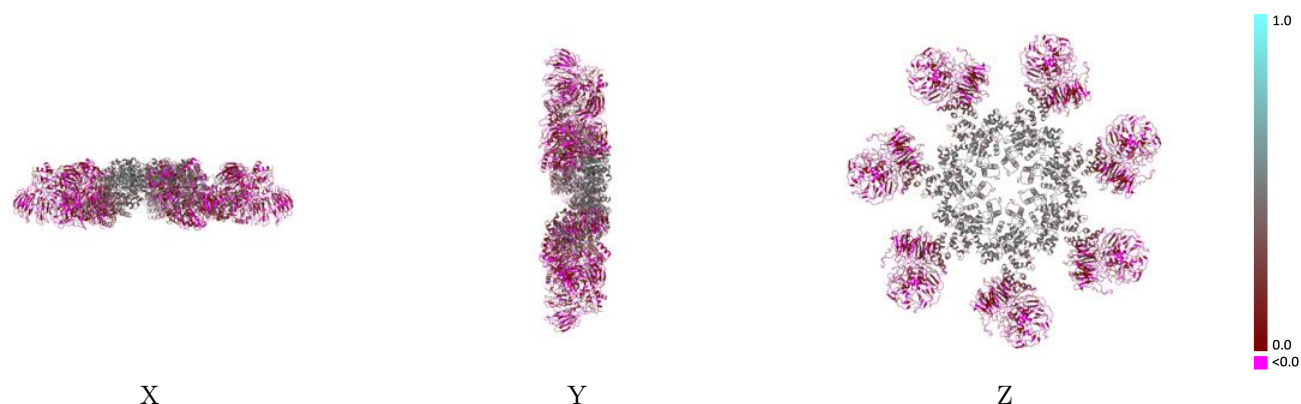
This section contains information regarding the fit between EMDB map EMD-6480 and PDB model 3JBT. Per-residue inclusion information can be found in [section 3](#) on [page 10](#).

9.1 Map-model overlay [i](#)



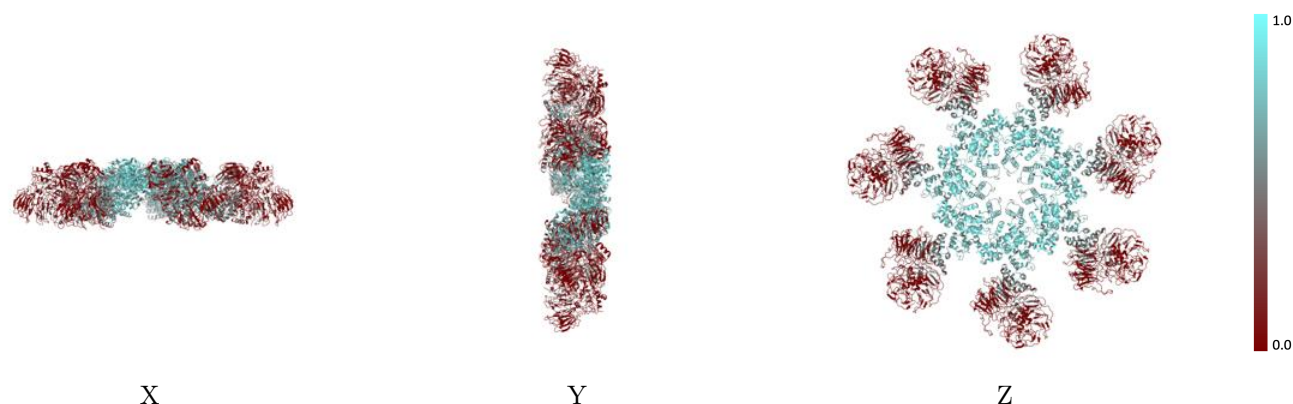
The images above show the 3D surface view of the map at the recommended contour level 0.04 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



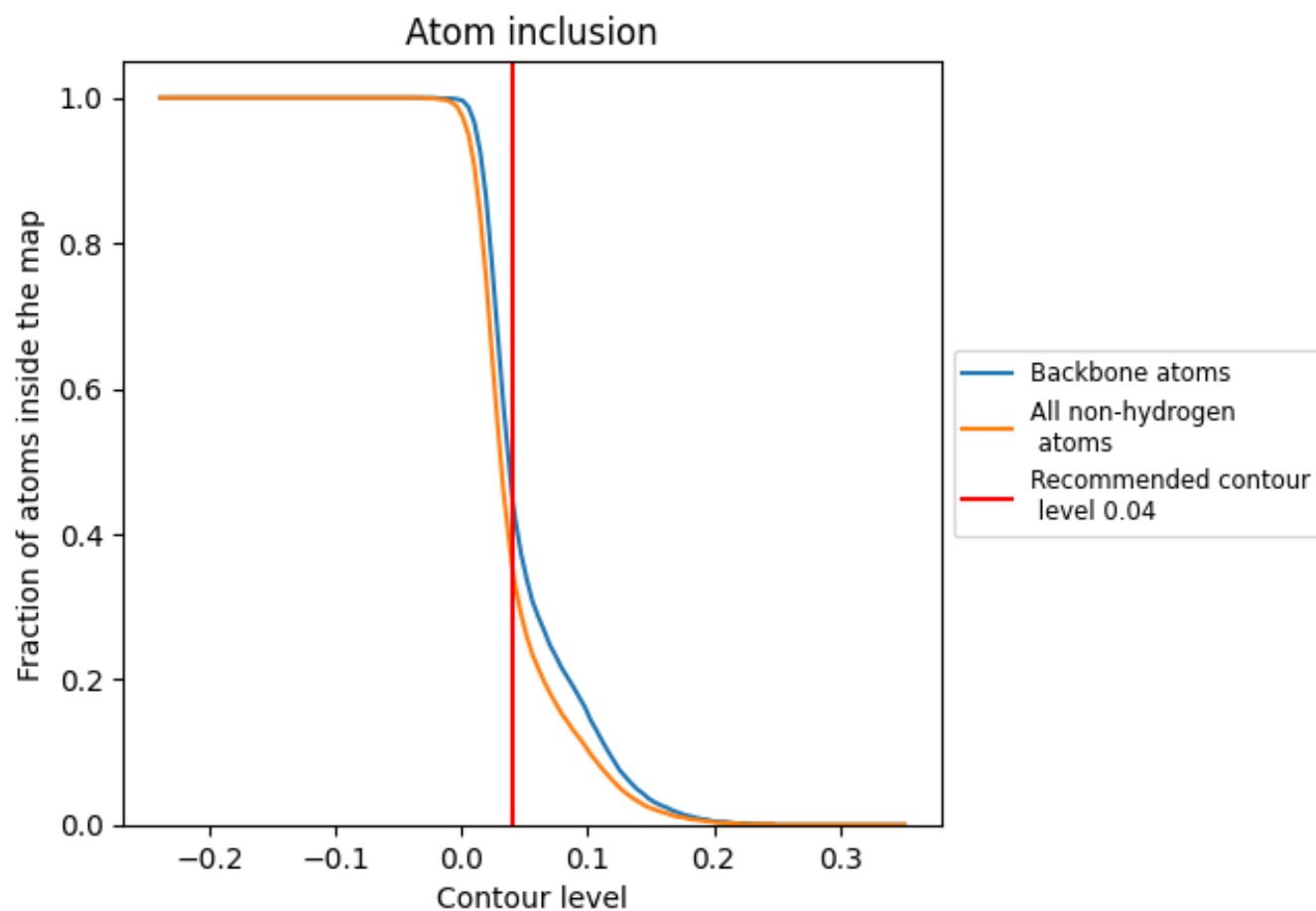
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

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



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.04).

9.4 Atom inclusion [i](#)



At the recommended contour level, 45% of all backbone atoms, 36% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary ⓘ

The table lists the average atom inclusion at the recommended contour level (0.04) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.3550	0.2010
A	0.3790	0.2120
B	0.0960	0.0860
C	0.3780	0.2120
D	0.0940	0.0880
E	0.3800	0.2120
F	0.0990	0.0840
G	0.3790	0.2110
H	0.0990	0.0830
I	0.3780	0.2110
J	0.1030	0.0870
K	0.3790	0.2110
L	0.1010	0.0900
M	0.3800	0.2110
N	0.0970	0.0860

1.0

0.0

<0.0