



# Full wwPDB X-ray Structure Validation Report ⓘ

Jun 16, 2024 – 05:29 AM EDT

PDB ID : 2PMZ  
Title : Archaeal RNA polymerase from Sulfolobus solfataricus  
Authors : Murakami, K.S.  
Deposited on : 2007-04-23  
Resolution : 3.40 Å(reported)

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

---

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

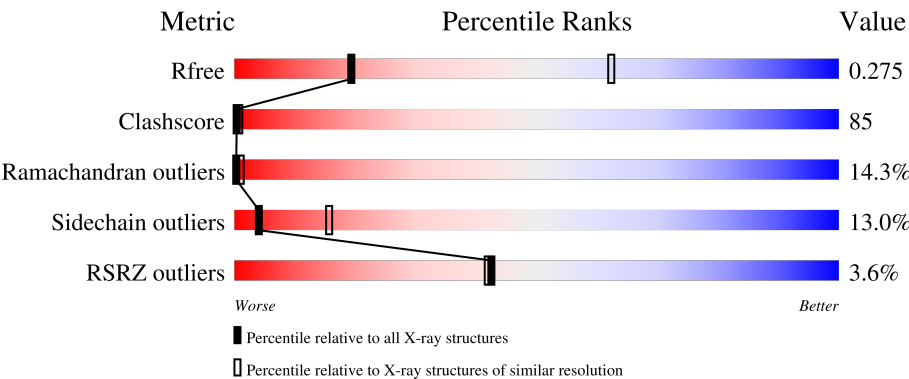
MolProbity : 4.02b-467  
Mogul : 2022.3.0, CSD as543be (2022)  
Xtriage (Phenix) : 1.20.1  
EDS : 2.37.1  
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)  
Refmac : 5.8.0158  
CCP4 : 7.0.044 (Gargrove)  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)  
Validation Pipeline (wwPDB-VP) : 2.37.1

# 1 Overall quality at a glance i

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

The reported resolution of this entry is 3.40 Å.

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



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
$R_{free}$	130704	1026 (3.48-3.32)
Clashscore	141614	1055 (3.48-3.32)
Ramachandran outliers	138981	1038 (3.48-3.32)
Sidechain outliers	138945	1038 (3.48-3.32)
RSRZ outliers	127900	2173 (3.50-3.30)

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

Mol	Chain	Length	Quality of chain
1	A	880	<div><div>2%</div><div></div><div>16%</div><div>52%</div><div>18%</div><div>•</div><div>12%</div></div>
1	Q	880	<div><div>3%</div><div></div><div>16%</div><div>54%</div><div>17%</div><div>•</div><div>12%</div></div>
2	C	392	<div><div>3%</div><div></div><div>11%</div><div>42%</div><div>15%</div><div>•</div><div>29%</div></div>
2	G	392	<div><div>3%</div><div></div><div>11%</div><div>41%</div><div>16%</div><div>•</div><div>29%</div></div>
3	B	1124	<div><div>2%</div><div></div><div>17%</div><div>60%</div><div>18%</div><div>• •</div></div>

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
3	R	1124	
4	D	265	
4	S	265	
5	E	180	
5	T	180	
6	F	113	
6	U	113	
7	H	84	
7	V	84	
8	K	95	
8	W	95	
9	L	92	
9	X	92	
10	N	66	
10	Y	66	
11	P	48	
11	Z	48	

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
14	F3S	D	1001	-	-	X	-
14	F3S	S	1001	-	-	X	-

## 2 Entry composition

There are 14 unique types of molecules in this entry. The entry contains 48122 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	776	Total	C	N	O	S	0	0	0
			6173	3936	1081	1135	21			
1	Q	776	Total	C	N	O	S	0	0	0
			6173	3936	1081	1135	21			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	C	279	Total	C	N	O	S	0	0	0
			2169	1376	375	412	6			
2	G	279	Total	C	N	O	S	0	0	0
			2169	1376	375	412	6			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	B	1090	Total	C	N	O	S	0	0	0
			8645	5483	1529	1602	31			
3	R	1090	Total	C	N	O	S	0	0	0
			8645	5483	1529	1602	31			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	D	264	Total	C	N	O	S	0	0	0
			2114	1355	342	403	14			
4	S	264	Total	C	N	O	S	0	0	0
			2114	1355	342	403	14			

- Molecule 5 is a protein called DNA-directed RNA polymerase subunit E.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	E	176	Total	C	N	O	S	0	0	0
			1402	903	236	259	4			
5	T	176	Total	C	N	O	S	0	0	0
			1402	903	236	259	4			

- Molecule 6 is a protein called DNA-directed RNA polymerase subunit F.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
6	F	89	Total	C	N	O	S	0	0	0
			694	433	115	142	4			
6	U	89	Total	C	N	O	S	0	0	0
			694	433	115	142	4			

- Molecule 7 is a protein called DNA-directed RNA polymerase subunit H.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
7	H	74	Total	C	N	O		0	0	0
			611	397	109	105				
7	V	74	Total	C	N	O		0	0	0
			611	397	109	105				

- Molecule 8 is a protein called DNA-directed RNA polymerase subunit K.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
8	K	82	Total	C	N	O	S	0	0	0
			658	420	121	116	1			
8	W	82	Total	C	N	O	S	0	0	0
			658	420	121	116	1			

- Molecule 9 is a protein called DNA-directed RNA polymerase subunit L.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
9	L	92	Total	C	N	O	S	0	0	0
			723	459	121	141	2			
9	X	92	Total	C	N	O	S	0	0	0
			723	459	121	141	2			

- Molecule 10 is a protein called DNA-directed RNA polymerase subunit N.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
10	N	64	Total	C	N	O	S	0	0	0
			514	326	94	88	6			

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
10	Y	64	Total	C	N	O	S	0	0	0
			514	326	94	88	6			

- Molecule 11 is a protein called DNA-directed RNA polymerase subunit P.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
11	P	43	Total	C	N	O	S	0	0	0
			346	230	58	53	5			
11	Z	43	Total	C	N	O	S	0	0	0
			346	230	58	53	5			

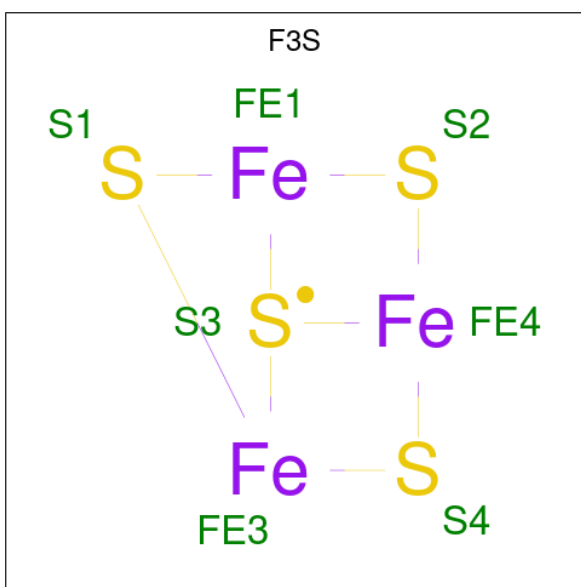
- Molecule 12 is ZINC ION (three-letter code: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
12	A	1	Total	Zn	0	0
			1	1		
12	B	1	Total	Zn	0	0
			1	1		
12	N	1	Total	Zn	0	0
			1	1		
12	P	1	Total	Zn	0	0
			1	1		
12	Q	1	Total	Zn	0	0
			1	1		
12	R	1	Total	Zn	0	0
			1	1		
12	Y	1	Total	Zn	0	0
			1	1		
12	Z	1	Total	Zn	0	0
			1	1		

- Molecule 13 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
13	A	1	Total	Mg	0	0
			1	1		
13	Q	1	Total	Mg	0	0
			1	1		

- Molecule 14 is FE3-S4 CLUSTER (three-letter code: F3S) (formula: Fe<sub>3</sub>S<sub>4</sub>).

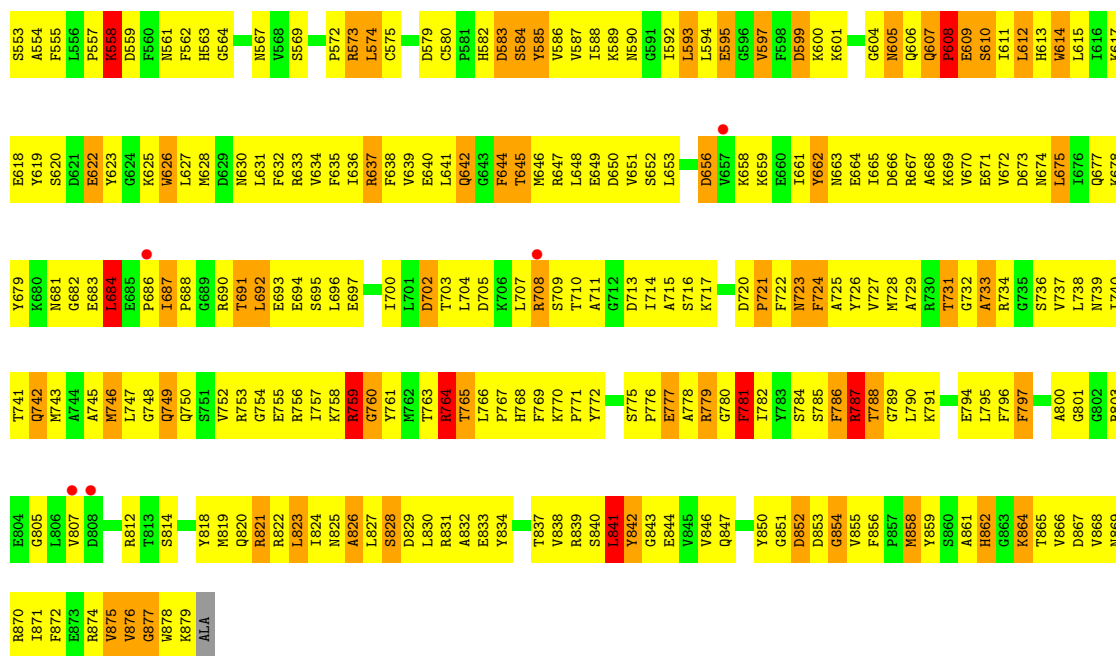


Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
14	D	1	Total	Fe	S	0	0
			7	3	4		
14	S	1	Total	Fe	S	0	0
			7	3	4		

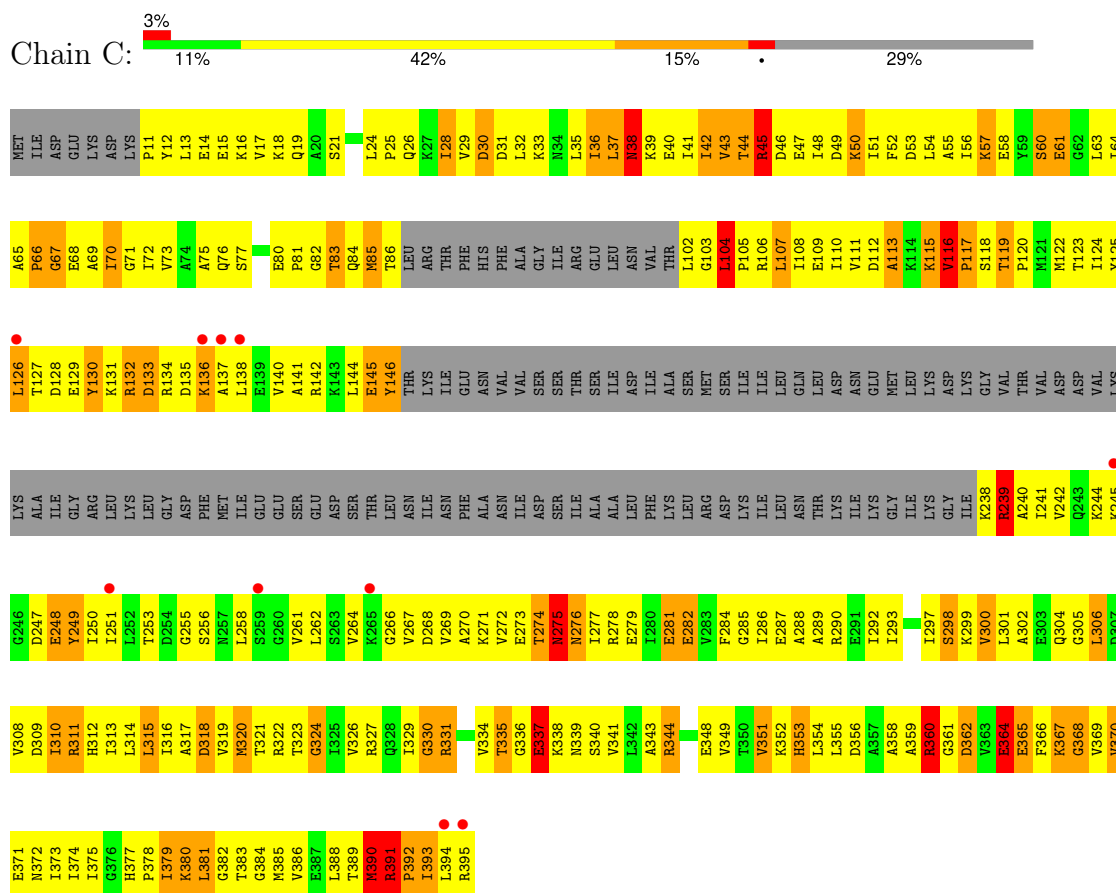






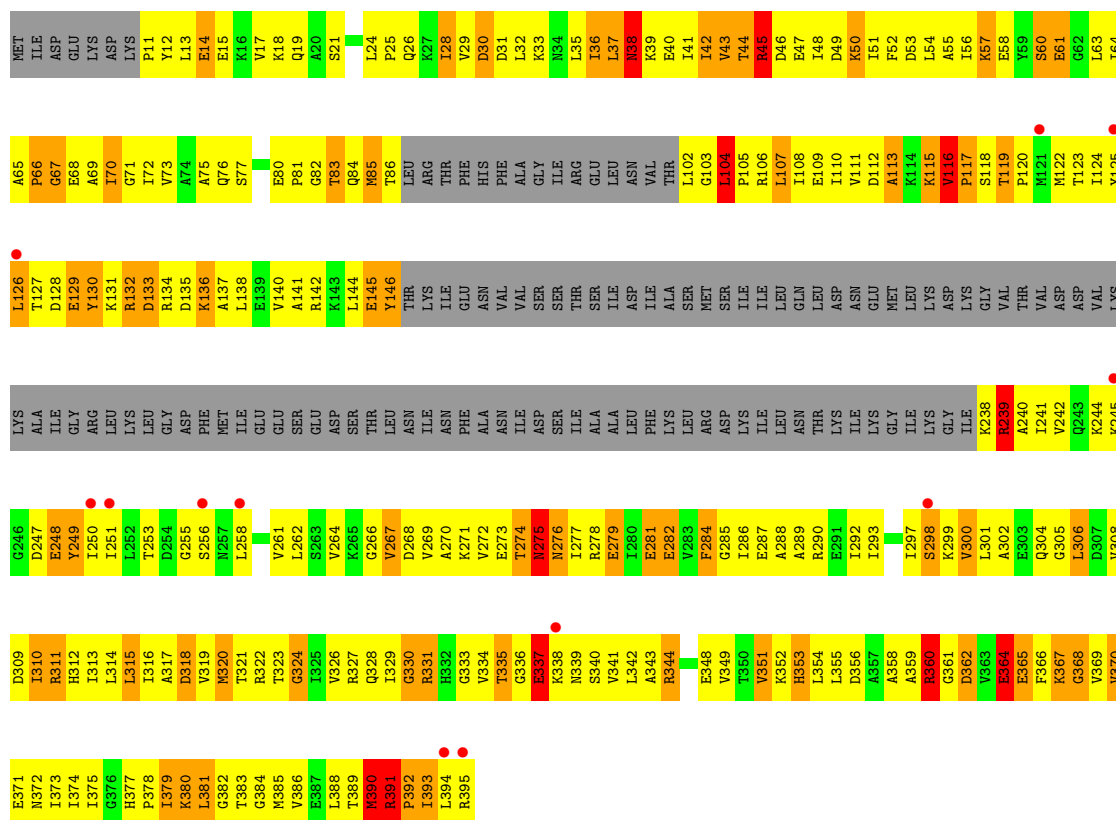


### • Molecule 2: DNA-directed RNA polymerase subunit A''

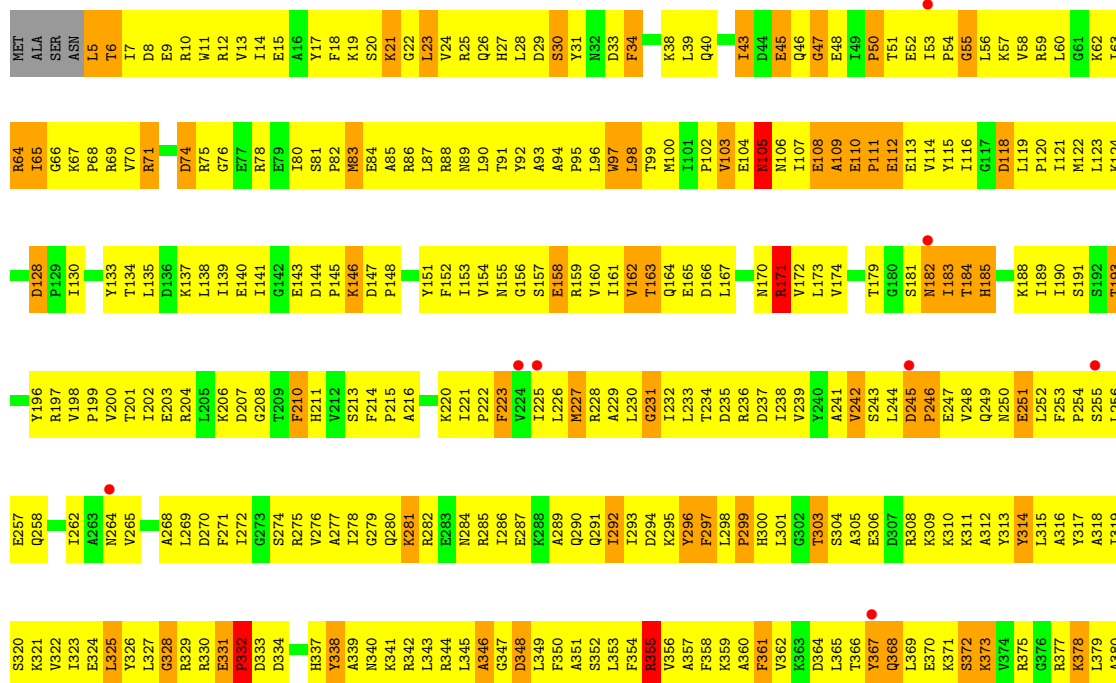
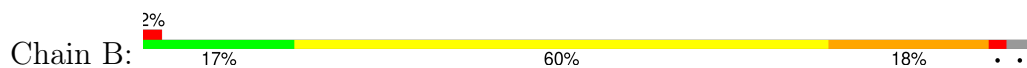


### • Molecule 2: DNA-directed RNA polymerase subunit A''



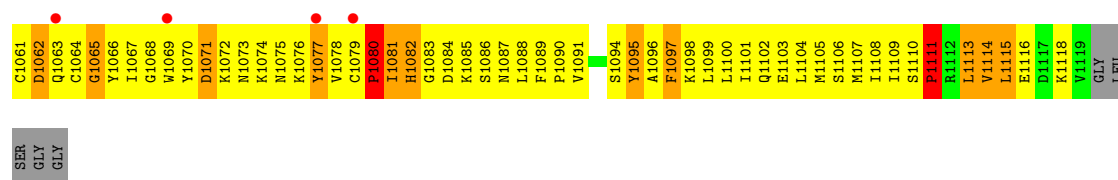


● Molecule 3: DNA-directed RNA polymerase subunit B

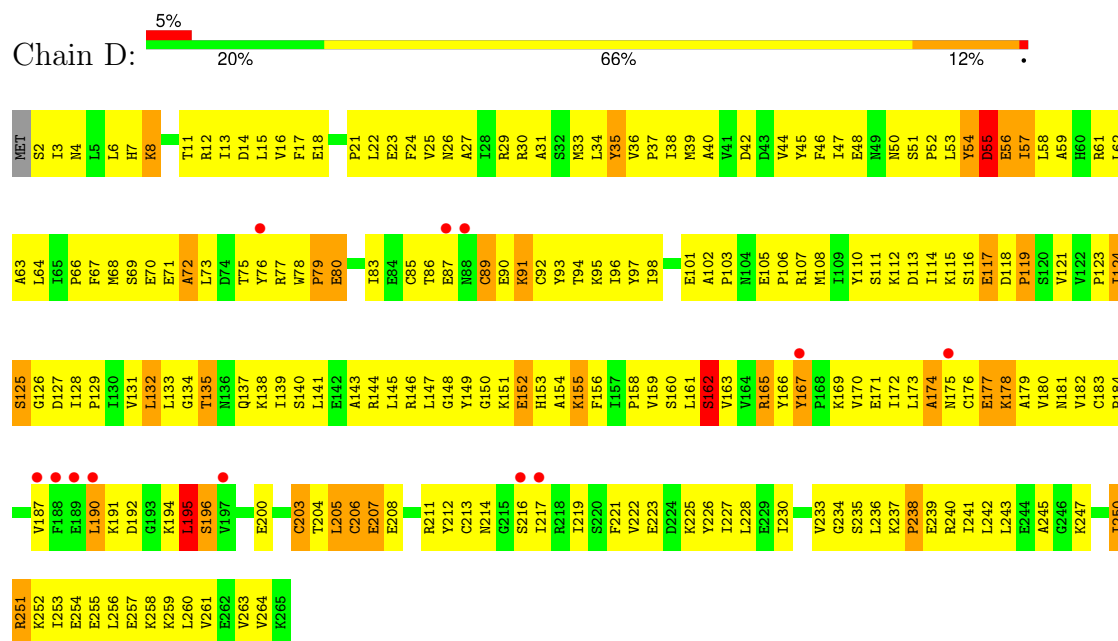




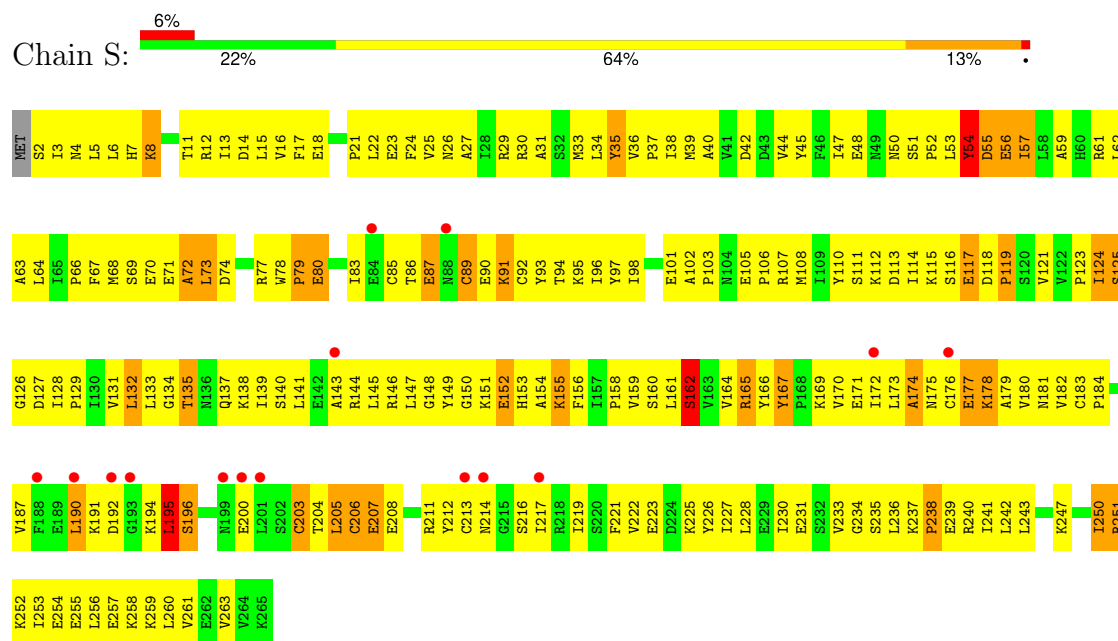
L1001	L1002	L1003	L1004	L1005	L1006	L1007	L1008	L1009	L1010	L1011	L1012	L1013	L1014	L1015	L1016	L1017	L1018	L1019	L1020	L1021	L1022	L1023	L1024	L1025	L1026	L1027	L1028	L1029	L1030	L1031	L1032	L1033	L1034	L1035	L1036	L1037	L1038	L1039	L1040	L1041	L1042	L1043	L1044	L1045	L1046	L1047	L1048	L1049	L1050	L1051	L1052	L1053	L1054	L1055	L1056	L1057	L1058	L1059	L1060					
S936	G875	D876	K877	F878	A879	S880	L881	H882	Q883	Q884	T885	G886	V887	L888	R889	S890	L891	T892	P893	Q894	V895	D896	P897	P898	T899	P900	P901	P902	P903	P904	P905	P906	P907	D908	G909	V910	P911	P912	H913	A914	L915	P916	S917	R918	P919	T920	G921	Q922	Q923	L924	P925	E926	Q930	L931	P932	A933	H934	L935	P936	L937	L938	L939	L940	
K813	V814	S815	P816	P817	R818	P819	L820	G821	L822	L823	L824	L825	L826	L827	L828	L829	L830	L831	L832	L833	L834	L835	L836	L837	L838	L839	L840	L841	L842	L843	L844	L845	L846	L847	L848	L849	L850	L851	L852	L853	L854	L855	L856	L857	L858	L859	L860	L861	L862	L863	L864	L865	L866	L867	L868	L869	L870	L871	L872	L873				
R691	A692	H693	L694	L695	H696	L697	P698	Q699	R700	S701	L702	V703	L704	E705	L706	L707	L708	L709	L710	L711	L712	L713	L714	L715	L716	L717	L718	L719	L720	L721	L722	L723	L724	L725	L726	L727	L728	L729	L730	L731	L732	L733	L734	L735	L736	L737	L738	L739	L740	L741	L742	L743	L744	L745	L746	L747	L748	L749	L750					
V626	A627	L628	V629	P630	L631	L632	P633	L634	L635	L636	L637	L638	L639	L640	L641	L642	L643	L644	L645	L646	L647	L648	L649	L650	L651	L652	L653	L654	L655	L656	L657	L658	L659	L660	L661	L662	L663	L664	L665	L666	L667	L668	L669	L670	L671	L672	L673	L674	L675	L676	L677	L678	L679	L680	L681	L682	L683	L684	L685	L686	L687	L688	L689	L690
I501	ARG	ARG	VAL	THR	GLU	GLY	GLY	GLY	ASP	GLN	ASN	GLU	TYR	L515	K516	L517	S518	K519	V520	L521	L522	L523	L524	L525	L526	L527	G528	L529	L530	L531	L532	L533	L534	L535	L536	L537	L538	L539	L540	L541	L542	L543	L544	L545	L546	L547	L548	L549	L550	L551	L552	L553	L554	L555	L556	L557	L558	L559	L560	L561	L562			
E441	A442	R443	D444	L445	H446	G447	T448	Q449	W450	D451	R452	V453	C454	F455	F456	T457	P458	P459	E460	G461	M462	N463	S464	G465	L466	V467	P468	N469	G470	L471	L472	M473	A474	Q475	I476	A477	V478	G479	I480	M481	E482	R483	M484	V485	E486	K487	T488	L489	Y490	E491	G492	G493	V494	H495	P496	V497	E498	E499	V500					
L379	A380	K381	K382	L383	L384	V385	R386	P387	D388	L389	G390	V391	E392	R393	L394	H395	A396	L397	G398	A399	T400	G401	N402	V403	Y404	G405	K406	R407	L408	L409	S410	L411	L412	L413	L414	L415	L416	L417	L418	L419	L420	S421	M422	H423	L424	R425	R426	R427	R428	V429	L430	S431	M432	L433	A434	R435	E436	Q437	P438	N439	F440			
P254	S255	L256	E257	Q258	L259	L260	A261	R262	L263	R264	V265	L266	L267	L268	L269	L270	F271	L272	G273	L274	R275	V276	A277	L278	L279	L280	L281	L282	L283	L284	L285	L286	L287	L288	L289	L290	L291	L292	L293	L294	L295	L296	L297	L298	L299	H300	L301	G302	T303	L304	A305	E306	L307	L308	E309	K310	K311	A312	L313	Y314	L315	L316		
Y317	A318	L319	S320	Q321	V322	L323	E324	L325	V326	L327	G328	R329	R330	E331	P332	D333	H334	Y335	A336	T337	N338	G339	L340	R341	L342	L343	R344	L345	K346	G347	L348	L349	F350	A351	S352	L353	F354	L355	V356	A357	F358	K359	A360	P361	V362	L363	D364	L365	T366	Y367	Q368	L369	E370	K371	S372	K373	V374	R375	G376	L377	K378			
L379	A380	K381	K382	L383	L384	V385	R386	P387	D388	L389	G390	V391	E392	R393	L394	H395	A396	L397	G398	A399	T400	G401	N402	V403	Y404	G405	K406	R407	L408	L409	S410	L411	L412	L413	L414	L415	L416	L417	L418	L419	L420	S421	M422	H423	L424	R425	R426	R427	R428	V429	L430	S431	M432	L433	A434	R435	E436	Q437	P438	N439	F440			
E441	A442	R443	D444	L445	H446	G447	T448	Q449	W450	D451	R452	V453	C454	F455	F456	T457	P458	P459	E460	G461	M462	N463	S464	G465	L466	V467	P468	N469	G470	L471	L472	M473	A474	Q475	I476	A477	V478	G479	I480	M481	E482	R483	M484	V485	E486	K487	T488	L489	Y490	E491	G492	G493	V494	H495	P496	V497	E498	E499	V500					
I501	ARG	ARG	VAL	THR	GLU	GLY	GLY	GLY	ASP	GLN	ASN	GLU	TYR	L515	K516	L517	S518	K519	V520	L521	L522	L523	L524	L525	L526	L527	G528	L529	L530	L531	L532	L533	L534	L535	L536	L537	L538	L539	L540	L541	L542	L543	L544	L545	L546	L547	L548	L549	L550	L551	L552	L553	L554	L555	L556	L557	L558	L559	L560	L561	L562			
I563	M564	E565	V566	H567	V568	N569	C570	D571	S572	G573	R574	V575	R576	R577	P578	L579	I580	E581	V582	L583	L584	L585	L586	L587	L588	L589	L590	L591	L592	L593	L594	L595	L596	L597	L598	L599	L600	L601	L602	L603	L604	D605	D606	L607	V608	R609	K610	I611	E612	I613	E614	V615	L616	D617	A618	V619	E620	H621	E622	N623	A624	D625	Y626	
V626	A627	L628	V629	P630	L631	L632	P633	L634	L635	L636	L637	L638	L639	L640	L641	L642	L643	L644	L645	L646	L647	L648	L649	L650	L651	L652	L653	L654	L655	L656	L657	L658	L659	L660	L661	L662	L663	L664	L665	L666	L667	L668	L669	L670	L671	L672	L673	L674	L675	L676	L677	L678	L679	L680	L681	L682	L683	L684	L685	L686	L687	L688	L689	L690
R691	A692	H693	L694	L695	H696	L697	P698	Q699	R700	S701	L702	V703	L704	E705	L706	L707	L708	L709	L710	L711	L712	L713	L714	L715	L716	L717	L718	L719	L720	L721	L722	L723	L724	L725	L726	L727	L728	L729	L730	L731	L732	L733	L734	L735	L736	L737	L738	L739	L740	L741	L742	L743	L744	L745	L746	L747	L748	L749	L750					
V626	A627	L628	V629	P630	L631	L632	P633	L634	L635	L636	L637	L638	L639	L640	L641	L642	L643	L644	L645	L646	L647	L648	L649	L650	L651	L652	L653	L654	L655	L656	L657	L658	L659	L660	L661	L662	L663	L664	L665	L666	L667	L668	L669	L670	L671	L672	L673	L674	L675	L676	L677	L678	L679	L680	L681	L682	L683	L684	L685	L686	L687	L688	L689	L690
R691	A692	H693	L694	L695	H696	L697	P698	Q699	R700	S701	L702	V703	L704	E705	L706	L707	L708	L709	L710	L711	L712	L713	L714	L715	L716	L717	L718	L719	L720	L721	L722	L723	L724	L725	L726	L727	L728	L729	L730	L731	L732	L733	L734	L735	L736	L737	L738	L739	L740	L741	L742	L743	L744	L745	L746	L747	L748	L749	L750					
R751	S752	T753	F754	L755	R756	L757	Y758	S759	E760	L761	V762	L763	K764	L765	L766	L767	L768	L769	L770	L771	L772	L773	L774	L775	L776	L777	L778	L779	L780	L781	L782	L783	L784	L785	L786	L787	L788	L789	L790	L791	L792	L793	L794	L795	L796	L797	L798	L799	L800	L801	L802	L803	L804	L805	L806	L807	L808	L809	L810	L811	L812	L813		
K813	V814	S815	P816	P817	R818	P819	L820	G821	L822	L823	L824	L825	L826	L827	L828	L829	L830	L831	L832	L833	L834	L835	L836	L837	L838	L839	L840	L841	L842	L843	L844	L845	L846	L847	L848	L849	L850	L851	L852	L853	L854	L855	L856	L857	L858	L859	L860	L861	L862	L863	L864	L865	L866	L867	L868	L869	L870	L871	L872	L873				
T874	G875	D876	K877	F878	A879	S880	L881	H882	Q883	Q884	T885	G886	V887	L888	R889	S890	L891	T892	P893	Q894	V895	D896	P897	P898	T899	P900	P901	P902	P903	P904	P905	P906	P907	D908	G909	V910	P911	P912	H913	A914	L915	P916	S917	R918	P919	T920	G921	Q922	Q923	L924	P925	E926	Q930	L931	P932	A933	H934	L935	P936	L937	L938	L939	L940	
S936	G937	D938	K939	F940	A941	S942	T943	P944	H945	Q946	T947	G948	V949	L950	R951	Q952	L953	R954	N955	E956	P957	L958	G959	P960	T961	P962	P963	P964	P965	P966	P967	P968	P969	P970	D971	L972	L973	L974	L975	L976	L977	L978	L979	L980	L981	L982	L983	L984	L985	L986	L987	L988	L989	L990	L991	L992	L993	L994	L995	L996	L997	L998	L999	L1000



• Molecule 4: DNA-directed RNA polymerase subunit D

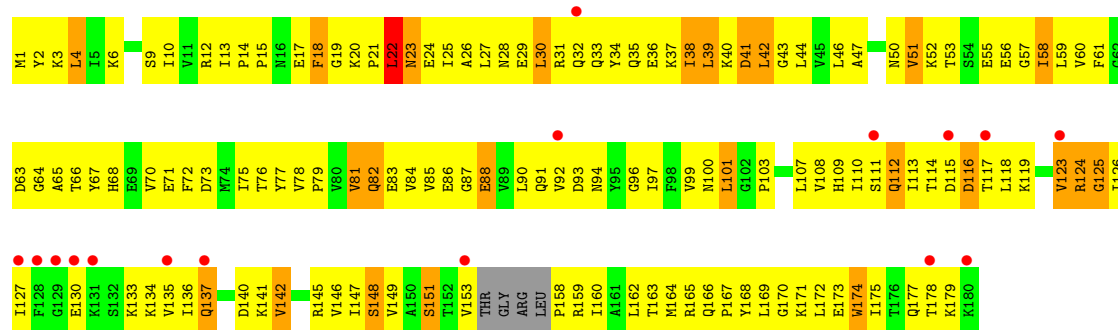


• Molecule 4: DNA-directed RNA polymerase subunit D

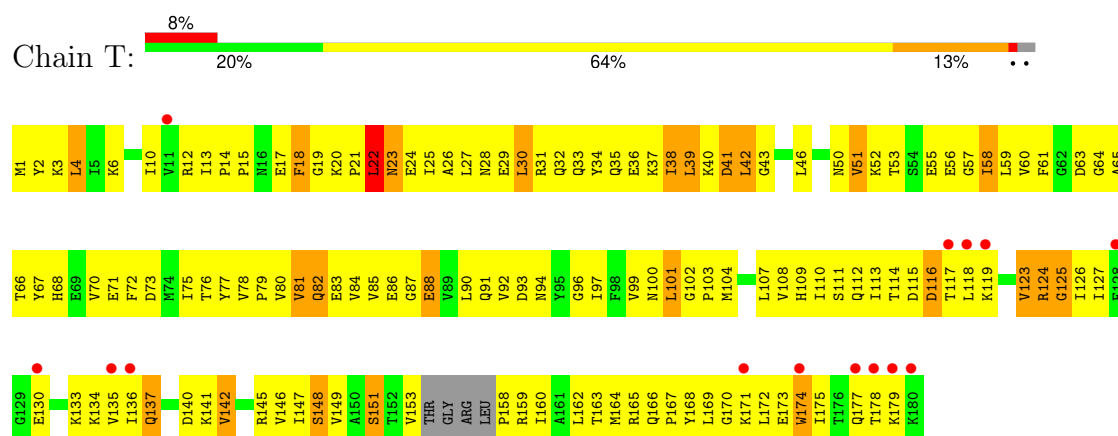


• Molecule 5: DNA-directed RNA polymerase subunit E

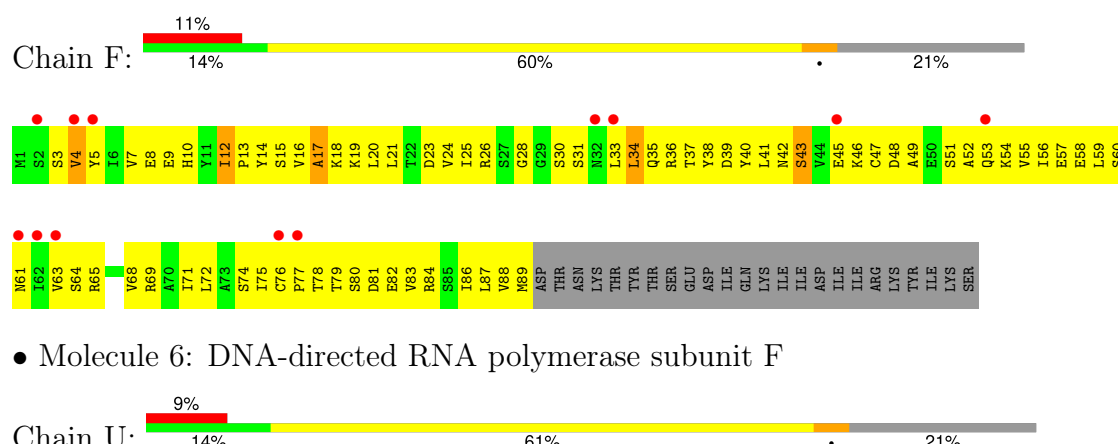




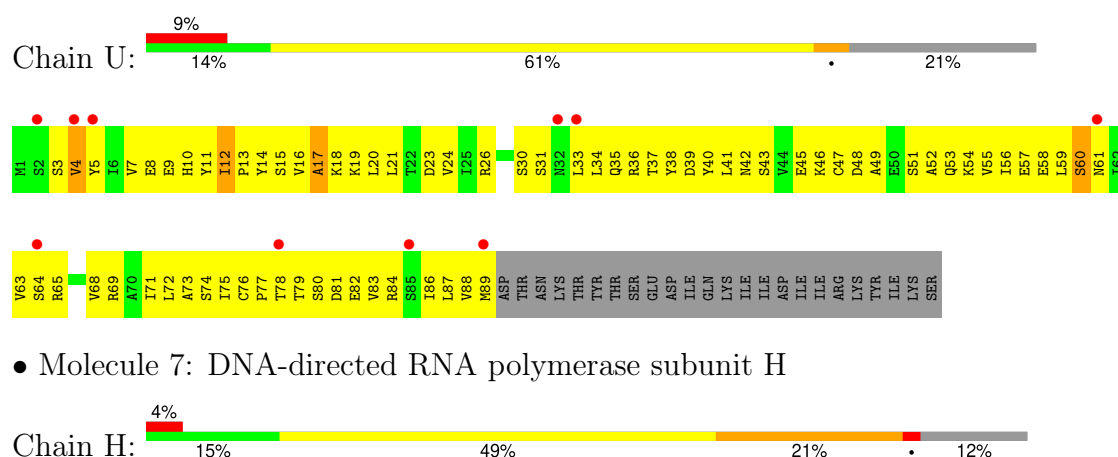
• Molecule 5: DNA-directed RNA polymerase subunit E



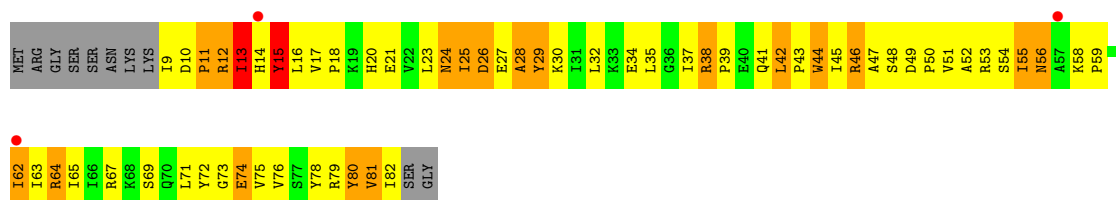
• Molecule 6: DNA-directed RNA polymerase subunit F



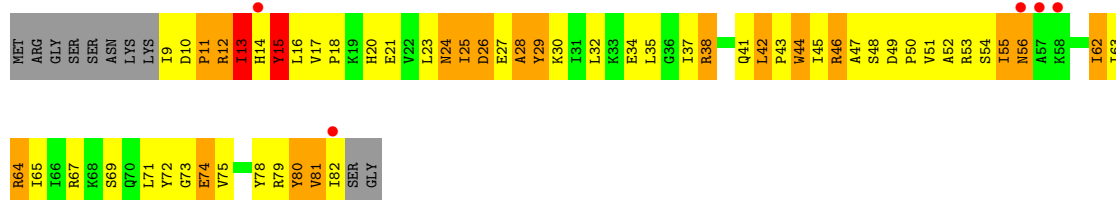
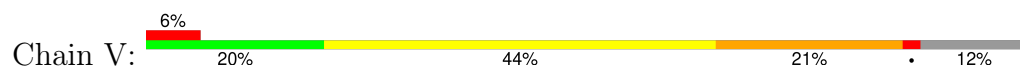
• Molecule 6: DNA-directed RNA polymerase subunit F



• Molecule 7: DNA-directed RNA polymerase subunit H



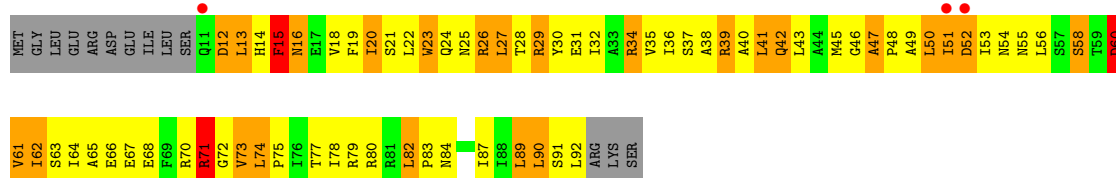
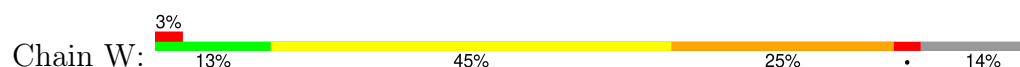
• Molecule 7: DNA-directed RNA polymerase subunit H



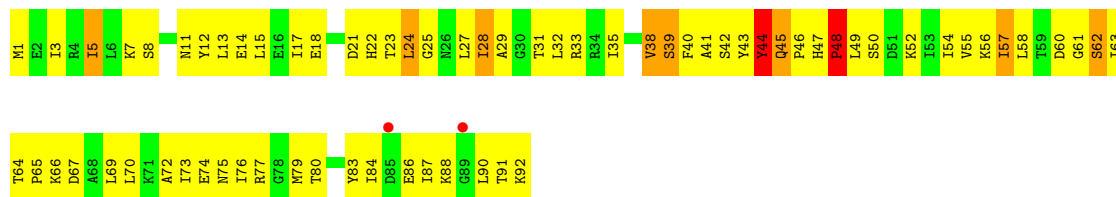
• Molecule 8: DNA-directed RNA polymerase subunit K



• Molecule 8: DNA-directed RNA polymerase subunit K

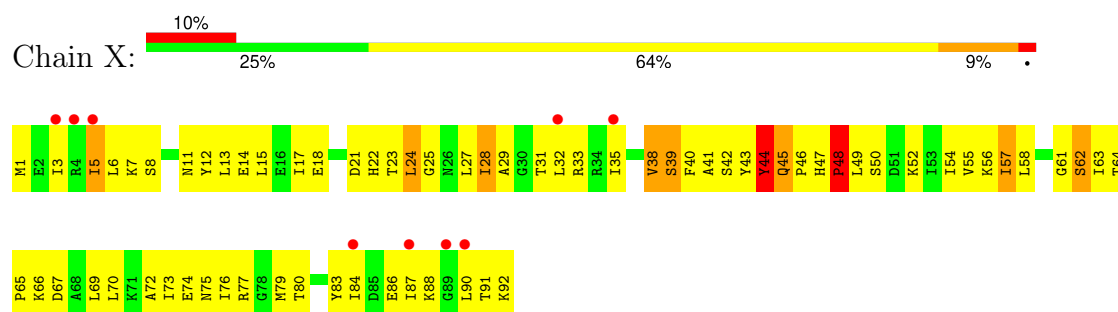


• Molecule 9: DNA-directed RNA polymerase subunit L

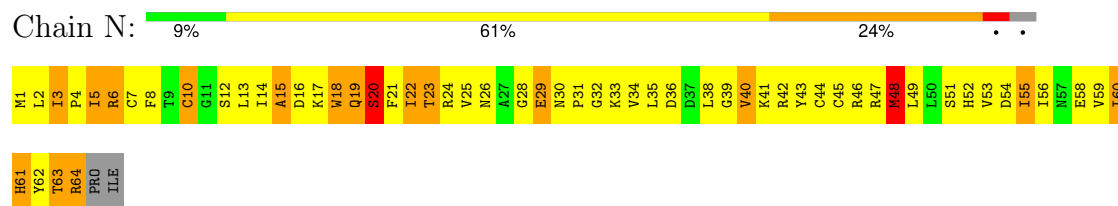


• Molecule 9: DNA-directed RNA polymerase subunit L

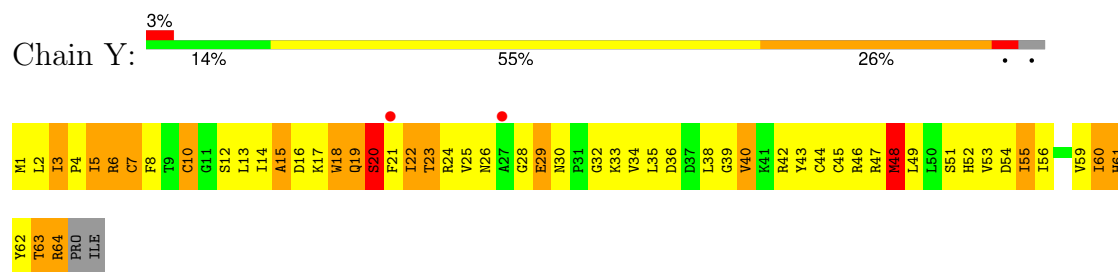




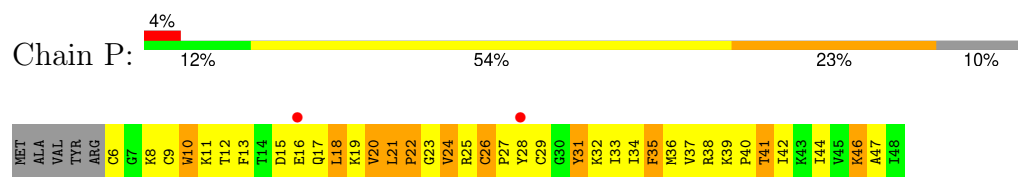
- Molecule 10: DNA-directed RNA polymerase subunit N



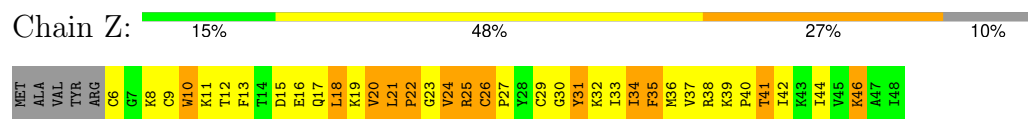
- Molecule 10: DNA-directed RNA polymerase subunit N



- Molecule 11: DNA-directed RNA polymerase subunit P



- Molecule 11: DNA-directed RNA polymerase subunit P



## 4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	125.82Å 201.24Å 196.05Å 90.00° 100.92° 90.00°	Depositor
Resolution (Å)	39.79 – 3.40 39.79 – 3.40	Depositor EDS
% Data completeness (in resolution range)	80.4 (39.79-3.40) 80.3 (39.79-3.40)	Depositor EDS
$R_{merge}$	0.10	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	1.73 (at 3.40Å)	Xtriage
Refinement program	REFMAC	Depositor
R, $R_{free}$	0.274 , 0.343 0.271 , 0.275	Depositor DCC
$R_{free}$ test set	5323 reflections (5.04%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	79.3	Xtriage
Anisotropy	0.345	Xtriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.28 , 83.7	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.41$ , $\langle L^2 \rangle = 0.23$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
$F_o, F_c$ correlation	0.86	EDS
Total number of atoms	48122	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	93.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.66% of the height of the origin peak. No significant pseudotranslation is detected.*

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

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

## 5 Model quality

### 5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: MG, ZN, F3S

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	0.48	0/6306	0.80	4/8539 (0.0%)
1	Q	0.46	0/6306	0.79	4/8539 (0.0%)
2	C	0.46	0/2189	0.81	0/2947
2	G	0.43	0/2189	0.80	0/2947
3	B	0.46	0/8810	0.79	5/11921 (0.0%)
3	R	0.45	0/8810	0.79	3/11921 (0.0%)
4	D	0.40	0/2152	0.68	0/2911
4	S	0.37	0/2152	0.67	0/2911
5	E	0.38	0/1423	0.69	0/1919
5	T	0.37	0/1423	0.69	0/1919
6	F	0.35	0/701	0.63	0/949
6	U	0.35	0/701	0.62	0/949
7	H	0.44	0/625	0.76	0/848
7	V	0.41	0/625	0.76	0/848
8	K	0.50	0/667	0.82	0/903
8	W	0.49	0/667	0.81	0/903
9	L	0.39	0/733	0.72	0/986
9	X	0.38	0/733	0.72	0/986
10	N	0.38	0/523	0.75	0/705
10	Y	0.37	0/523	0.74	0/705
11	P	0.45	0/354	0.68	0/475
11	Z	0.46	0/354	0.67	0/475
All	All	0.44	0/48966	0.77	16/66206 (0.0%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
3	B	0	1

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	#Chirality outliers	#Planarity outliers
3	R	0	1
4	D	0	1
4	S	0	1
All	All	0	4

There are no bond length outliers.

All (16) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	841	LEU	CA-CB-CG	7.67	132.93	115.30
1	Q	841	LEU	CA-CB-CG	7.56	132.69	115.30
3	B	436	GLY	N-CA-C	-6.16	97.70	113.10
3	R	436	GLY	N-CA-C	-5.97	98.17	113.10
1	A	508	LEU	N-CA-C	-5.89	95.11	111.00
3	B	522	LEU	CA-CB-CG	5.79	128.62	115.30
3	B	946	TYR	N-CA-C	5.64	126.23	111.00
1	Q	508	LEU	N-CA-C	-5.52	96.11	111.00
1	Q	787	ARG	N-CA-C	-5.50	96.16	111.00
3	R	522	LEU	CA-CB-CG	5.47	127.87	115.30
3	B	1039	PHE	N-CA-C	-5.37	96.50	111.00
1	A	787	ARG	N-CA-C	-5.33	96.60	111.00
3	R	946	TYR	N-CA-C	5.30	125.31	111.00
1	Q	854	GLY	N-CA-C	-5.22	100.05	113.10
1	A	534	LEU	CA-CB-CG	5.16	127.16	115.30
3	B	45	GLU	N-CA-C	-5.01	97.46	111.00

There are no chirality outliers.

All (4) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
3	B	314	TYR	Sidechain
4	D	54	TYR	Sidechain
3	R	314	TYR	Sidechain
4	S	54	TYR	Sidechain

## 5.2 Too-close contacts ⓘ

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	6173	0	6243	1147	0
1	Q	6173	0	6243	1128	0
2	C	2169	0	2288	501	0
2	G	2169	0	2288	526	0
3	B	8645	0	8782	1656	0
3	R	8645	0	8780	1698	0
4	D	2114	0	2145	357	0
4	S	2114	0	2145	348	0
5	E	1402	0	1467	222	0
5	T	1402	0	1467	246	0
6	F	694	0	705	129	0
6	U	694	0	705	139	0
7	H	611	0	641	117	0
7	V	611	0	641	125	0
8	K	658	0	692	161	0
8	W	658	0	692	174	0
9	L	723	0	749	94	0
9	X	723	0	749	91	0
10	N	514	0	528	159	0
10	Y	514	0	529	151	0
11	P	346	0	376	63	0
11	Z	346	0	375	58	0
12	A	1	0	0	0	0
12	B	1	0	0	0	0
12	N	1	0	0	0	0
12	P	1	0	0	0	0
12	Q	1	0	0	0	0
12	R	1	0	0	0	0
12	Y	1	0	0	0	0
12	Z	1	0	0	0	0
13	A	1	0	0	0	0
13	Q	1	0	0	0	0
14	D	7	0	0	4	0
14	S	7	0	0	3	0
All	All	48122	0	49230	8272	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 85.

All (8272) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:238:LYS:NZ	1:A:297:THR:HB	1.42	1.31
1:Q:238:LYS:NZ	1:Q:297:THR:HB	1.43	1.31
1:A:803:ARG:HG2	3:B:444:ASP:HA	1.20	1.17
1:A:308:ARG:HH21	3:B:1099:LEU:HD13	1.10	1.16
3:R:88:ARG:HD3	3:R:853:THR:HG21	1.25	1.15
3:R:329:ARG:HD2	3:R:562:PHE:HB3	1.24	1.15
11:Z:46:LYS:H	11:Z:46:LYS:HD2	1.06	1.15
3:B:329:ARG:HD2	3:B:562:PHE:HB3	1.24	1.14
11:P:46:LYS:H	11:P:46:LYS:HD2	1.06	1.14
3:B:88:ARG:HD3	3:B:853:THR:HG21	1.26	1.14
1:Q:803:ARG:HG2	3:R:444:ASP:HA	1.17	1.13
1:A:418:LEU:HD21	3:B:1044:LEU:HD21	1.24	1.12
3:B:560:THR:HG22	3:B:562:PHE:H	1.02	1.11
1:Q:290:ARG:HD2	1:Q:291:SER:H	1.11	1.11
6:U:16:VAL:HG21	6:U:53:GLN:HG3	1.32	1.11
4:D:190:LEU:HD22	4:D:195:LEU:HA	1.32	1.11
1:A:868:VAL:HG22	2:C:39:LYS:HZ3	1.11	1.10
1:Q:308:ARG:HH21	3:R:1099:LEU:HD13	1.09	1.10
2:C:274:THR:HG22	2:C:275:ASN:H	1.15	1.10
3:B:640:LEU:CD2	3:B:641:GLU:H	1.65	1.10
7:V:29:TYR:HA	7:V:32:LEU:HD12	1.16	1.10
7:H:29:TYR:HA	7:H:32:LEU:HD12	1.12	1.09
3:R:560:THR:HG22	3:R:562:PHE:H	1.02	1.09
3:R:581:ILE:HD11	3:R:614:GLU:HB2	1.31	1.08
6:F:16:VAL:HG21	6:F:53:GLN:HG3	1.31	1.08
3:R:458:THR:HG21	3:R:465:GLY:H	1.14	1.08
3:R:640:LEU:CD2	3:R:641:GLU:H	1.67	1.07
1:Q:418:LEU:HD21	3:R:1044:LEU:HD21	1.37	1.07
2:G:274:THR:HG22	2:G:275:ASN:H	1.11	1.07
2:G:340:SER:HB3	2:G:371:GLU:HG2	1.09	1.07
2:G:309:ASP:OD2	2:G:311:ARG:HD3	1.55	1.07
3:R:869:LEU:HD11	4:S:56:GLU:HB3	1.34	1.07
3:B:249:GLN:HG3	3:B:250:ASN:H	1.20	1.07
3:B:650:ILE:HD13	3:B:650:ILE:H	1.16	1.07
2:C:55:ALA:HA	2:C:58:GLU:HG3	1.37	1.06
7:H:12:ARG:HD3	7:H:12:ARG:H	1.18	1.06
2:C:340:SER:HB3	2:C:371:GLU:HG2	1.08	1.06
3:B:458:THR:HG21	3:B:465:GLY:H	1.14	1.06
1:Q:369:PRO:HB3	1:Q:376:ASN:HB3	1.37	1.06
4:S:190:LEU:HD22	4:S:195:LEU:HA	1.31	1.06
3:B:581:ILE:HD11	3:B:614:GLU:HB2	1.36	1.06
1:Q:866:VAL:HG12	1:Q:869:ASN:H	1.19	1.05

Continued on next page...

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:650:ILE:HD13	3:R:650:ILE:H	1.15	1.05
1:A:58:CYS:SG	1:A:59:PRO:HD2	1.95	1.05
1:A:290:ARG:HD2	1:A:291:SER:H	1.09	1.05
3:R:569:ASN:HB3	3:R:574:ARG:HH22	1.21	1.04
1:Q:575:CYS:SG	1:Q:580:CYS:HB3	1.97	1.04
3:B:26:GLN:O	3:B:345:LEU:HD23	1.55	1.04
3:B:640:LEU:HD23	3:B:641:GLU:H	1.18	1.04
1:Q:874:ARG:HE	2:G:53:ASP:HB3	1.18	1.04
2:G:286:ILE:HD12	7:V:45:ILE:HG13	1.36	1.04
2:G:390:MET:HB2	5:T:56:GLU:HG3	1.38	1.04
3:R:890:MET:HE2	3:R:891:LEU:H	1.21	1.04
4:D:191:LYS:HB2	4:D:194:LYS:HD2	1.37	1.04
3:B:569:ASN:HB3	3:B:574:ARG:HH22	1.24	1.03
4:S:191:LYS:HB2	4:S:194:LYS:HD2	1.41	1.03
7:V:12:ARG:HD3	7:V:12:ARG:H	1.17	1.03
3:R:705:THR:HG22	3:R:706:ARG:H	1.24	1.03
1:A:575:CYS:SG	1:A:580:CYS:HB3	1.99	1.02
1:A:874:ARG:HE	2:C:53:ASP:HB3	1.19	1.02
2:C:340:SER:HB3	2:C:371:GLU:CG	1.87	1.02
3:R:640:LEU:HD23	3:R:641:GLU:H	1.19	1.02
3:B:479:GLY:HA2	3:B:552:GLU:HB3	1.41	1.02
5:T:179:LYS:HE2	6:U:81:ASP:HB2	1.40	1.02
3:B:1033:ARG:NH1	3:B:1034:ASP:OD2	1.90	1.02
3:R:853:THR:HG22	3:R:854:GLU:H	1.24	1.02
1:A:866:VAL:HG12	1:A:869:ASN:H	1.20	1.02
3:B:874:ILE:H	3:B:874:ILE:HD12	1.23	1.02
1:Q:868:VAL:HG22	2:G:39:LYS:HZ3	1.23	1.02
3:R:242:VAL:HA	3:R:316:ALA:HB1	1.38	1.02
3:R:479:GLY:HA2	3:R:552:GLU:HB3	1.38	1.02
3:B:242:VAL:HA	3:B:316:ALA:HB1	1.38	1.02
1:Q:826:ALA:HB2	2:G:335:THR:HG23	1.38	1.02
2:G:340:SER:HB3	2:G:371:GLU:CG	1.89	1.02
1:A:749:GLN:H	1:A:781:PHE:HA	1.24	1.01
1:Q:58:CYS:SG	1:Q:59:PRO:HD2	2.00	1.01
1:Q:760:GLY:HA3	3:R:447:GLY:HA3	1.42	1.01
1:A:743:MET:HG3	3:B:919:MET:HE2	1.40	1.01
1:A:238:LYS:HZ1	1:A:297:THR:CB	1.71	1.01
1:A:365:VAL:HG23	1:A:388:LEU:HD11	1.43	1.01
2:G:69:ALA:HB2	2:G:381:LEU:HD22	1.43	1.01
3:R:65:ILE:H	3:R:65:ILE:HD12	1.22	1.01
3:R:582:VAL:HG13	3:R:586:ASN:H	1.21	1.01

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:830:LEU:HD23	1:A:840:SER:HB3	1.43	1.00
1:Q:175:LEU:HD23	1:Q:176:THR:H	1.25	1.00
3:R:26:GLN:O	3:R:345:LEU:HD23	1.60	1.00
5:T:166:GLN:HB2	5:T:169:LEU:HD12	1.41	1.00
2:C:310:ILE:H	2:C:310:ILE:HD12	1.27	1.00
3:B:582:VAL:HG13	3:B:586:ASN:H	1.23	1.00
3:B:65:ILE:H	3:B:65:ILE:HD12	1.26	1.00
4:D:131:VAL:HG22	4:D:132:LEU:H	1.27	1.00
3:B:24:VAL:HG11	3:B:426:LEU:HD13	1.43	1.00
2:C:309:ASP:OD2	2:C:311:ARG:HD3	1.61	0.99
3:B:853:THR:HG22	3:B:854:GLU:H	1.26	0.99
10:N:35:LEU:HD22	10:N:40:VAL:HG21	1.43	0.99
3:R:249:GLN:HG3	3:R:250:ASN:H	1.22	0.99
1:A:79:ARG:HB2	1:A:266:TRP:CE3	1.97	0.99
1:A:293:ARG:HH11	1:A:296:ARG:NH2	1.59	0.99
1:Q:365:VAL:HG23	1:Q:388:LEU:HD11	1.42	0.99
3:R:197:ARG:NH2	3:R:359:LYS:HG2	1.75	0.99
1:A:175:LEU:HD23	1:A:176:THR:H	1.25	0.99
2:C:102:LEU:HD23	2:C:103:GLY:N	1.77	0.99
2:C:329:ILE:HA	2:C:334:VAL:HG12	1.44	0.99
1:A:369:PRO:HB3	1:A:376:ASN:HB3	1.41	0.99
3:B:108:GLU:O	3:B:110:GLU:HG3	1.63	0.99
3:B:890:MET:HE2	3:B:891:LEU:H	1.24	0.99
2:C:69:ALA:HB2	2:C:381:LEU:HD22	1.44	0.99
3:R:1033:ARG:NH1	3:R:1034:ASP:OD2	1.94	0.98
4:S:131:VAL:HG22	4:S:132:LEU:H	1.28	0.98
1:Q:293:ARG:HH11	1:Q:296:ARG:NH2	1.61	0.98
4:S:175:ASN:HA	4:S:195:LEU:HD11	1.45	0.98
1:Q:238:LYS:HZ1	1:Q:297:THR:HB	0.86	0.98
1:Q:176:THR:HG23	1:Q:179:ASP:HB2	1.46	0.98
3:B:197:ARG:NH2	3:B:359:LYS:HG2	1.79	0.98
3:R:47:GLY:HA2	3:R:58:VAL:O	1.62	0.98
1:A:826:ALA:HB2	2:C:335:THR:HG23	1.45	0.98
3:B:557:HIS:N	3:B:623:ASN:HD21	1.61	0.98
4:S:11:THR:O	4:S:238:PRO:HB3	1.64	0.98
5:E:166:GLN:HB2	5:E:169:LEU:HD12	1.42	0.98
3:B:588:LEU:HD13	3:B:612:LYS:HB3	1.44	0.97
2:G:55:ALA:HA	2:G:58:GLU:HG3	1.42	0.97
3:B:982:ARG:O	3:B:983:ILE:HG12	1.63	0.97
1:Q:749:GLN:H	1:Q:781:PHE:HA	1.24	0.97
1:Q:79:ARG:HB2	1:Q:266:TRP:CE3	1.99	0.97

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:201:THR:HG23	3:R:215:PRO:HG3	1.45	0.97
3:B:781:ARG:HD3	3:B:782:GLY:H	1.30	0.97
4:D:11:THR:O	4:D:238:PRO:HB3	1.63	0.97
1:Q:238:LYS:HZ2	1:Q:276:TYR:HA	1.27	0.97
1:A:376:ASN:O	1:A:377:TYR:HB2	1.65	0.96
2:G:289:ALA:O	2:G:292:ILE:HG22	1.64	0.96
3:R:759:SER:HB2	3:R:862:VAL:O	1.64	0.96
10:Y:35:LEU:HD22	10:Y:40:VAL:HG21	1.45	0.96
3:B:557:HIS:H	3:B:623:ASN:HD21	1.03	0.96
5:T:53:THR:HB	5:T:71:GLU:H	1.28	0.96
3:B:628:LEU:HD23	3:B:628:LEU:H	1.29	0.96
2:C:104:LEU:HB3	2:C:105:PRO:HD3	1.47	0.96
4:D:175:ASN:HA	4:D:195:LEU:HD11	1.48	0.96
2:G:25:PRO:HD3	2:G:33:LYS:HD2	1.48	0.96
1:Q:830:LEU:HD23	1:Q:840:SER:HB3	1.45	0.96
2:C:286:ILE:HD12	7:H:45:ILE:HG13	1.48	0.96
3:B:47:GLY:HA2	3:B:58:VAL:O	1.66	0.96
1:Q:600:LYS:HE3	1:Q:732:GLY:HA2	1.48	0.96
2:G:102:LEU:HD23	2:G:103:GLY:N	1.80	0.96
3:B:201:THR:HG23	3:B:215:PRO:HG3	1.45	0.95
3:R:982:ARG:O	3:R:983:ILE:HG12	1.64	0.95
3:B:702:LEU:H	3:B:721:ASN:ND2	1.64	0.95
5:E:53:THR:HB	5:E:71:GLU:H	1.31	0.95
3:R:781:ARG:HD3	3:R:782:GLY:H	1.31	0.95
5:E:84:VAL:HG21	6:F:86:ILE:HG12	1.47	0.95
11:Z:26:CYS:SG	11:Z:29:CYS:HB2	2.06	0.95
1:A:354:THR:HB	1:A:355:PRO:HD2	1.48	0.95
3:B:1074:LYS:HB3	3:B:1076:LYS:HE2	1.49	0.95
1:Q:81:VAL:HG23	1:Q:209:LEU:HB2	1.48	0.95
1:A:290:ARG:HD2	1:A:291:SER:N	1.81	0.95
4:S:98:ILE:HD11	4:S:114:ILE:HG23	1.47	0.95
1:Q:376:ASN:O	1:Q:377:TYR:HB2	1.66	0.95
1:A:672:VAL:HG13	1:A:700:ILE:HD12	1.48	0.95
1:A:653:LEU:HD11	1:A:745:ALA:HB2	1.49	0.94
1:Q:653:LEU:HD11	1:Q:745:ALA:HB2	1.47	0.94
3:R:628:LEU:HD23	3:R:628:LEU:H	1.30	0.94
1:A:473:ILE:HD12	1:A:474:ALA:N	1.82	0.94
3:B:221:ILE:HG21	3:B:226:LEU:HG	1.49	0.94
1:Q:743:MET:HG3	3:R:919:MET:HE2	1.48	0.94
2:G:80:GLU:HB3	2:G:81:PRO:HD3	1.50	0.94
1:Q:855:VAL:HG22	2:G:64:ILE:HB	1.48	0.94

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:946:TYR:HD2	3:B:947:LYS:N	1.65	0.94
3:R:1060:VAL:HG12	3:R:1065:GLY:HA3	1.47	0.94
1:A:238:LYS:HZ2	1:A:276:TYR:HA	1.30	0.94
5:T:179:LYS:NZ	6:U:79:THR:HB	1.83	0.94
3:B:43:ILE:HG21	3:B:63:ILE:HD11	1.50	0.94
3:B:705:THR:HG22	3:B:706:ARG:H	1.31	0.94
2:G:344:ARG:HB2	2:G:344:ARG:HH11	1.33	0.94
1:A:81:VAL:HG23	1:A:209:LEU:HB2	1.49	0.94
1:A:765:THR:HG22	1:A:766:LEU:HD23	1.50	0.94
3:R:702:LEU:H	3:R:721:ASN:HD21	0.96	0.94
3:R:764:LYS:HZ3	3:R:814:VAL:H	0.95	0.94
3:R:764:LYS:HZ3	3:R:814:VAL:N	1.66	0.94
2:C:25:PRO:HD3	2:C:33:LYS:HD2	1.48	0.93
1:Q:803:ARG:CG	3:R:444:ASP:HA	1.97	0.93
5:T:84:VAL:HG21	6:U:86:ILE:HG12	1.50	0.93
1:A:293:ARG:HH11	1:A:296:ARG:HH22	0.94	0.93
11:P:26:CYS:SG	11:P:29:CYS:HB2	2.07	0.93
2:G:329:ILE:HA	2:G:334:VAL:HG12	1.50	0.93
1:A:637:ARG:HH11	3:B:974:ARG:HH12	1.16	0.93
1:Q:238:LYS:HZ1	1:Q:297:THR:CB	1.78	0.93
1:Q:650:ASP:HB3	1:Q:723:ASN:ND2	1.81	0.93
1:A:650:ASP:HB3	1:A:723:ASN:ND2	1.82	0.93
5:T:179:LYS:CE	6:U:81:ASP:HB2	1.97	0.93
3:R:946:TYR:HD2	3:R:947:LYS:N	1.67	0.93
1:Q:352:ARG:HD3	1:Q:406:ILE:HD12	1.50	0.93
1:A:855:VAL:HG22	2:C:64:ILE:HB	1.49	0.93
3:R:537:ALA:HB2	3:R:557:HIS:NE2	1.84	0.93
1:A:90:ILE:HD11	1:A:207:MET:HB3	1.51	0.93
1:Q:290:ARG:HD2	1:Q:291:SER:N	1.82	0.93
3:R:38:LYS:HG3	3:R:39:LEU:H	1.30	0.93
2:C:344:ARG:HH11	2:C:344:ARG:HB2	1.33	0.93
3:R:108:GLU:O	3:R:110:GLU:HG3	1.69	0.93
3:B:954:GLN:HA	3:B:957:ILE:HD11	1.50	0.93
1:A:176:THR:HG23	1:A:179:ASP:HB2	1.49	0.92
1:A:803:ARG:CG	3:B:444:ASP:HA	1.97	0.92
3:R:339:ALA:HB2	3:R:618:ALA:HB3	1.50	0.92
3:B:686:LEU:HD12	3:B:686:LEU:H	1.34	0.92
1:Q:338:GLY:HA3	1:Q:444:ARG:HG2	1.49	0.92
1:Q:868:VAL:HG22	2:G:39:LYS:NZ	1.83	0.92
3:R:686:LEU:HD12	3:R:686:LEU:H	1.33	0.92
2:C:270:ALA:HA	7:H:14:HIS:ND1	1.85	0.92

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:557:HIS:H	3:R:623:ASN:HD21	1.11	0.92
10:Y:42:ARG:HG3	10:Y:43:TYR:H	1.33	0.92
3:R:43:ILE:HG21	3:R:63:ILE:HD11	1.49	0.92
3:R:1004:ARG:HH11	3:R:1025:GLY:H	1.18	0.92
1:Q:765:THR:HG22	1:Q:766:LEU:HD23	1.49	0.92
3:B:771:ASP:HB2	3:B:816:PRO:HD3	1.51	0.92
8:K:90:LEU:HD23	8:K:90:LEU:N	1.85	0.92
1:Q:90:ILE:HD11	1:Q:207:MET:HB3	1.50	0.92
3:B:537:ALA:HB2	3:B:557:HIS:NE2	1.83	0.92
3:B:764:LYS:HZ3	3:B:814:VAL:H	1.01	0.92
3:B:781:ARG:CD	3:B:782:GLY:H	1.83	0.92
1:Q:238:LYS:NZ	1:Q:297:THR:CB	2.32	0.92
1:A:50:GLY:HA2	1:A:68:CYS:SG	2.09	0.92
2:C:120:PRO:HA	2:C:275:ASN:ND2	1.84	0.92
3:B:854:GLU:HA	3:B:859:ASN:O	1.70	0.92
11:P:26:CYS:HB2	11:P:27:PRO:HD2	1.49	0.92
2:G:120:PRO:HA	2:G:275:ASN:ND2	1.84	0.92
3:R:24:VAL:HG11	3:R:426:LEU:HD13	1.51	0.92
3:R:557:HIS:N	3:R:623:ASN:HD21	1.66	0.92
1:A:338:GLY:HA3	1:A:444:ARG:HG2	1.48	0.92
1:Q:672:VAL:HG13	1:Q:700:ILE:HD12	1.49	0.92
1:Q:238:LYS:HZ2	1:Q:276:TYR:CA	1.82	0.91
1:Q:331:ASN:O	1:Q:332:ILE:HB	1.69	0.91
1:A:308:ARG:NH2	3:B:1099:LEU:HD13	1.85	0.91
3:B:172:VAL:HG22	3:B:189:ILE:HD11	1.52	0.91
10:N:42:ARG:HG3	10:N:43:TYR:H	1.35	0.91
1:A:238:LYS:HZ1	1:A:297:THR:HB	0.79	0.91
2:C:55:ALA:HA	2:C:58:GLU:CG	2.00	0.91
1:Q:647:ARG:HH11	3:R:965:ASP:HB2	1.34	0.91
1:A:507:TYR:OH	1:A:727:VAL:HG13	1.71	0.91
2:C:391:ARG:HH11	2:C:391:ARG:HG3	1.36	0.91
7:V:12:ARG:H	7:V:12:ARG:CD	1.83	0.91
1:Q:293:ARG:HH11	1:Q:296:ARG:HH22	0.94	0.91
2:G:310:ILE:H	2:G:310:ILE:HD12	1.34	0.91
3:R:781:ARG:CD	3:R:782:GLY:H	1.83	0.91
1:Q:604:GLY:C	1:Q:606:GLN:H	1.70	0.91
1:Q:50:GLY:HA2	1:Q:68:CYS:SG	2.11	0.91
8:W:53:ILE:H	8:W:53:ILE:HD12	1.35	0.91
3:B:869:LEU:HD11	4:D:56:GLU:HB3	1.51	0.90
4:D:98:ILE:HD11	4:D:114:ILE:HG23	1.53	0.90
3:R:473:MET:HA	3:R:577:ARG:HH21	1.35	0.90

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:18:LYS:HE2	6:F:41:LEU:HB3	1.54	0.90
1:Q:354:THR:HB	1:Q:355:PRO:HD2	1.51	0.90
3:R:954:GLN:HA	3:R:957:ILE:HD11	1.54	0.90
3:B:759:SER:HB2	3:B:862:VAL:O	1.72	0.90
2:C:115:LYS:O	2:C:116:VAL:HG13	1.72	0.90
3:B:1004:ARG:HH11	3:B:1025:GLY:H	1.18	0.90
5:E:39:LEU:HD23	5:E:40:LYS:H	1.37	0.90
7:H:12:ARG:H	7:H:12:ARG:CD	1.82	0.90
2:C:390:MET:HB2	5:E:56:GLU:HG3	1.53	0.90
3:B:1069:TRP:CD1	3:B:1088:LEU:HD22	2.07	0.90
2:G:310:ILE:O	2:G:314:LEU:HD23	1.69	0.90
5:T:179:LYS:HZ1	6:U:82:GLU:H	1.17	0.90
2:C:337:GLU:HG2	2:C:338:LYS:H	1.37	0.90
2:C:310:ILE:O	2:C:314:LEU:HD23	1.72	0.90
3:R:874:ILE:H	3:R:874:ILE:HD12	1.36	0.90
6:U:18:LYS:HE2	6:U:41:LEU:HB3	1.54	0.90
1:A:647:ARG:HH11	3:B:965:ASP:HB2	1.36	0.89
1:A:868:VAL:HG22	2:C:39:LYS:NZ	1.85	0.89
3:R:437:GLN:HB3	3:R:438:PRO:HD2	1.54	0.89
3:R:560:THR:HG22	3:R:562:PHE:N	1.86	0.89
3:R:221:ILE:HG21	3:R:226:LEU:HG	1.55	0.89
3:R:854:GLU:HA	3:R:859:ASN:O	1.72	0.89
1:A:760:GLY:HA3	3:B:447:GLY:HA3	1.53	0.89
3:B:276:VAL:HG12	3:B:277:ALA:H	1.36	0.89
3:B:702:LEU:H	3:B:721:ASN:HD21	0.91	0.89
8:W:90:LEU:N	8:W:90:LEU:HD23	1.88	0.89
2:C:262:LEU:HD22	2:C:269:VAL:HG13	1.55	0.89
3:B:1050:LEU:HD23	3:B:1051:ASP:H	1.38	0.89
3:R:702:LEU:H	3:R:721:ASN:ND2	1.69	0.89
3:B:38:LYS:HG3	3:B:39:LEU:H	1.35	0.89
5:E:179:LYS:NZ	6:F:79:THR:HB	1.88	0.89
2:C:80:GLU:HB3	2:C:81:PRO:HD3	1.55	0.89
3:B:373:LYS:HE3	3:B:375:ARG:HD2	1.53	0.89
1:Q:365:VAL:HG11	1:Q:401:LEU:HD11	1.54	0.89
1:Q:637:ARG:HH11	3:R:974:ARG:HH12	1.19	0.89
3:R:276:VAL:HG12	3:R:277:ALA:H	1.38	0.89
3:R:588:LEU:HD13	3:R:612:LYS:HB3	1.51	0.89
4:S:44:VAL:HA	4:S:143:ALA:HA	1.55	0.89
1:Q:421:ARG:HB2	1:Q:462:MET:HE3	1.55	0.89
11:Z:26:CYS:HB2	11:Z:27:PRO:HD2	1.55	0.89
2:C:289:ALA:O	2:C:292:ILE:HG22	1.73	0.89

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:700:ARG:HG3	3:B:714:THR:HG22	1.52	0.89
9:L:64:THR:HG22	9:L:65:PRO:HD2	1.52	0.89
1:A:600:LYS:HE3	1:A:732:GLY:HA2	1.55	0.89
1:Q:308:ARG:NH2	3:R:1099:LEU:HD13	1.86	0.89
3:R:554:ASN:HD21	3:R:576:ARG:HH21	1.15	0.89
1:A:249:LEU:HD13	1:A:266:TRP:CE3	2.07	0.88
2:C:340:SER:CB	2:C:371:GLU:HG2	2.02	0.88
3:B:591:ILE:HG12	3:B:612:LYS:HZ2	1.38	0.88
3:B:1060:VAL:HG12	3:B:1065:GLY:HA3	1.54	0.88
1:Q:16:PRO:HD3	1:Q:206:TRP:CD1	2.06	0.88
1:Q:503:ILE:HD11	1:Q:733:ALA:N	1.88	0.88
2:G:340:SER:CB	2:G:371:GLU:HG2	2.02	0.88
3:B:851:LEU:HA	11:P:35:PHE:HB3	1.54	0.88
3:B:60:LEU:HD22	3:B:98:LEU:HD21	1.53	0.88
1:A:875:VAL:O	1:A:877:GLY:N	2.06	0.88
1:Q:203:ARG:HH11	1:Q:203:ARG:HG3	1.38	0.88
1:Q:518:LYS:HE3	1:Q:544:GLU:HB2	1.56	0.88
3:B:437:GLN:HB3	3:B:438:PRO:HD2	1.52	0.88
4:D:230:ILE:HG13	4:D:242:LEU:HD21	1.56	0.88
1:Q:875:VAL:O	1:Q:877:GLY:N	2.07	0.88
1:Q:704:LEU:HD13	1:Q:781:PHE:HD1	1.37	0.88
3:R:602:ILE:HG22	3:R:603:THR:H	1.39	0.88
3:B:560:THR:HG22	3:B:562:PHE:N	1.86	0.88
3:B:1011:ILE:HD12	3:B:1011:ILE:H	1.37	0.88
8:K:39:ARG:HD3	8:K:74:LEU:HD23	1.53	0.88
10:N:3:ILE:H	10:N:3:ILE:HD12	1.36	0.88
2:C:145:GLU:HA	2:C:239:ARG:H	1.36	0.88
3:B:416:ARG:NH1	3:B:687:ARG:NH2	2.21	0.88
1:Q:704:LEU:HD22	1:Q:781:PHE:CE1	2.09	0.88
1:A:290:ARG:HH11	1:A:291:SER:HB2	1.39	0.88
3:B:403:TRP:O	3:B:404:VAL:HG23	1.73	0.88
2:G:145:GLU:HA	2:G:239:ARG:H	1.38	0.88
1:A:503:ILE:HD11	1:A:733:ALA:N	1.89	0.88
1:A:590:ASN:ND2	3:R:377:ARG:HB2	1.88	0.88
3:R:771:ASP:HB2	3:R:816:PRO:HD3	1.54	0.88
5:E:79:PRO:HG3	5:E:160:ILE:HD11	1.54	0.87
1:A:548:GLY:O	1:A:551:VAL:HG12	1.73	0.87
1:Q:807:VAL:HG21	3:R:443:ARG:HD3	1.55	0.87
3:B:769:GLN:O	3:B:770:GLU:HB3	1.74	0.87
1:A:283:GLY:C	1:A:285:PRO:HD2	1.95	0.87
3:B:702:LEU:N	3:B:721:ASN:HD21	1.72	0.87

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:116:ASP:CG	5:E:117:THR:H	1.78	0.87
5:E:179:LYS:HZ3	6:F:79:THR:HB	1.40	0.87
8:K:53:ILE:H	8:K:53:ILE:HD12	1.37	0.87
9:X:64:THR:HG22	9:X:65:PRO:HD2	1.54	0.87
3:R:569:ASN:CB	3:R:574:ARG:HH22	1.88	0.87
3:R:1074:LYS:HB3	3:R:1076:LYS:HE2	1.56	0.87
3:B:554:ASN:HD21	3:B:576:ARG:HH21	1.17	0.87
1:Q:249:LEU:HD13	1:Q:266:TRP:CE3	2.08	0.87
2:G:55:ALA:HA	2:G:58:GLU:CG	2.03	0.87
5:T:116:ASP:CG	5:T:117:THR:H	1.78	0.87
1:A:16:PRO:HD3	1:A:206:TRP:CD1	2.09	0.87
1:A:532:ILE:HD11	9:L:56:LYS:HD3	1.57	0.87
10:N:38:LEU:HD23	10:N:39:GLY:H	1.40	0.87
1:Q:563:HIS:HB2	1:Q:872:PHE:HE2	1.39	0.87
3:R:536:LEU:HD11	3:R:540:ILE:HD12	1.57	0.87
3:R:773:ILE:HG12	3:R:813:LYS:HG2	1.57	0.87
1:A:518:LYS:HE3	1:A:544:GLU:HB2	1.56	0.86
11:P:46:LYS:H	11:P:46:LYS:CD	1.88	0.86
1:A:604:GLY:C	1:A:606:GLN:H	1.74	0.86
4:S:230:ILE:HG13	4:S:242:LEU:HD21	1.57	0.86
5:T:39:LEU:HD23	5:T:40:LYS:H	1.40	0.86
3:B:497:VAL:HG12	3:B:498:GLU:N	1.90	0.86
3:B:1080:PRO:O	3:B:1081:ILE:HG13	1.75	0.86
4:D:40:ALA:HB3	4:D:156:PHE:HE2	1.41	0.86
3:R:416:ARG:NH1	3:R:687:ARG:NH2	2.23	0.86
3:R:650:ILE:H	3:R:650:ILE:CD1	1.88	0.86
3:R:851:LEU:HA	11:Z:35:PHE:HB3	1.57	0.86
3:R:1069:TRP:CD1	3:R:1088:LEU:HD22	2.10	0.86
3:R:591:ILE:HG12	3:R:612:LYS:HZ2	1.40	0.86
3:R:517:TRP:HD1	3:R:531:GLN:H	1.20	0.86
3:R:1011:ILE:HD12	3:R:1011:ILE:H	1.39	0.86
1:A:749:GLN:N	1:A:781:PHE:HA	1.89	0.86
3:B:339:ALA:HB2	3:B:618:ALA:HB3	1.58	0.86
4:D:190:LEU:CD2	4:D:195:LEU:HA	2.05	0.86
2:G:290:ARG:HG3	2:G:321:THR:OG1	1.75	0.86
2:G:393:ILE:HG21	2:G:395:ARG:HH21	1.41	0.86
3:R:943:THR:HG22	3:R:944:PRO:HD2	1.55	0.86
3:B:764:LYS:HZ3	3:B:814:VAL:N	1.73	0.86
1:Q:491:TYR:HB3	1:Q:607:GLN:OE1	1.73	0.86
1:Q:749:GLN:N	1:Q:781:PHE:HA	1.90	0.86
2:G:392:PRO:HB3	5:T:22:LEU:HD11	1.58	0.86

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:172:VAL:HG22	3:R:189:ILE:HD11	1.54	0.86
3:R:769:GLN:O	3:R:770:GLU:HB3	1.75	0.86
3:B:943:THR:HG22	3:B:944:PRO:HD2	1.55	0.86
2:G:115:LYS:O	2:G:116:VAL:HG13	1.74	0.86
7:V:42:LEU:HD11	7:V:80:TYR:HB2	1.58	0.86
2:G:270:ALA:HA	7:V:14:HIS:ND1	1.91	0.86
3:R:569:ASN:HB3	3:R:574:ARG:NH2	1.91	0.85
3:R:700:ARG:HG3	3:R:714:THR:HG22	1.55	0.85
10:N:7:CYS:HB3	10:N:45:CYS:SG	2.16	0.85
1:A:4:LYS:HD3	3:B:1091:VAL:HB	1.59	0.85
11:P:46:LYS:HD2	11:P:46:LYS:N	1.90	0.85
1:Q:283:GLY:C	1:Q:285:PRO:HD2	1.96	0.85
3:R:587:PRO:O	3:R:588:LEU:HD23	1.76	0.85
4:S:190:LEU:CD2	4:S:195:LEU:HA	2.06	0.85
8:W:39:ARG:HD3	8:W:74:LEU:HD23	1.57	0.85
3:B:539:LYS:O	3:B:543:ARG:HG3	1.75	0.85
1:Q:290:ARG:HH11	1:Q:291:SER:HB2	1.40	0.85
1:Q:507:TYR:OH	1:Q:727:VAL:HG13	1.77	0.85
3:R:560:THR:HB	3:R:563:ILE:HB	1.57	0.85
2:C:290:ARG:HG3	2:C:321:THR:OG1	1.76	0.85
11:Z:46:LYS:H	11:Z:46:LYS:CD	1.89	0.85
11:Z:46:LYS:HD2	11:Z:46:LYS:N	1.90	0.85
3:B:569:ASN:CB	3:B:574:ARG:HH22	1.90	0.85
1:Q:473:ILE:HD12	1:Q:474:ALA:N	1.90	0.85
3:R:248:VAL:HG11	3:R:329:ARG:HH12	1.42	0.85
1:A:853:ASP:HB2	2:C:311:ARG:HH12	1.41	0.85
3:B:458:THR:CG2	3:B:465:GLY:H	1.88	0.85
3:R:338:TYR:HB2	3:R:448:THR:HG21	1.57	0.85
3:R:458:THR:CG2	3:R:465:GLY:H	1.90	0.85
1:Q:256:GLY:O	1:Q:258:PRO:HD3	1.77	0.85
2:G:391:ARG:HG3	2:G:391:ARG:HH11	1.41	0.85
2:C:244:LYS:HE2	2:C:247:ASP:HA	1.59	0.85
2:G:104:LEU:HB3	2:G:105:PRO:HD3	1.56	0.85
1:A:331:ASN:O	1:A:332:ILE:HB	1.75	0.84
1:A:558:LYS:HG3	3:R:104:GLU:HB2	1.59	0.84
3:R:797:VAL:HB	11:Z:36:MET:HE1	1.58	0.84
1:A:563:HIS:HB2	1:A:872:PHE:HE2	1.41	0.84
3:R:672:MET:HG2	3:R:993:LEU:HD21	1.59	0.84
1:A:491:TYR:HB3	1:A:607:GLN:OE1	1.78	0.84
7:H:11:PRO:HG2	7:H:50:PRO:O	1.76	0.84
1:Q:317:ARG:HA	3:R:1027:ARG:HA	1.58	0.84

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:238:LYS:HZ2	1:A:276:TYR:CA	1.91	0.84
3:B:119:LEU:HD12	3:B:120:PRO:HD2	1.58	0.84
3:B:325:LEU:HD21	3:B:332:PRO:HD3	1.59	0.84
3:B:874:ILE:HD12	3:B:874:ILE:N	1.91	0.84
3:B:1014:ARG:HG3	3:B:1095:TYR:CD2	2.13	0.84
10:N:7:CYS:SG	10:N:48:MET:HG3	2.17	0.84
2:C:70:ILE:HA	2:C:73:VAL:HG22	1.60	0.84
2:C:389:THR:HG21	8:K:79:ARG:NH1	1.93	0.84
3:B:418:ASN:HD21	3:B:420:LEU:HB3	1.43	0.84
3:B:587:PRO:O	3:B:588:LEU:HD23	1.76	0.84
3:B:851:LEU:HG	11:P:35:PHE:HD2	1.39	0.84
1:Q:828:SER:HB2	2:G:72:ILE:HD11	1.57	0.84
1:A:352:ARG:HD3	1:A:406:ILE:HD12	1.57	0.84
5:E:75:ILE:HG21	6:F:21:LEU:HD21	1.59	0.84
2:G:244:LYS:HE2	2:G:247:ASP:HA	1.59	0.84
3:R:922:GLY:HA2	3:R:925:MET:HB2	1.58	0.84
3:B:536:LEU:HD11	3:B:540:ILE:HD12	1.59	0.84
2:G:262:LEU:HD22	2:G:269:VAL:HG13	1.58	0.84
3:R:696:HIS:ND1	4:S:57:ILE:HD11	1.92	0.84
1:A:527:VAL:HG13	1:A:630:ASN:HB3	1.59	0.83
3:B:473:MET:HA	3:B:577:ARG:HH21	1.38	0.83
3:R:803:GLU:HB3	3:R:805:LYS:NZ	1.92	0.83
1:A:290:ARG:NH1	1:A:291:SER:HB2	1.92	0.83
1:A:365:VAL:HG11	1:A:401:LEU:HD11	1.60	0.83
3:B:191:SER:HA	3:B:300:HIS:NE2	1.92	0.83
2:G:274:THR:HG22	2:G:275:ASN:N	1.92	0.83
1:A:317:ARG:HA	3:B:1027:ARG:HA	1.60	0.83
1:A:502:TYR:HE1	1:A:636:ILE:HD11	1.43	0.83
10:N:60:ILE:HG23	10:N:61:HIS:H	1.40	0.83
3:R:189:ILE:HB	3:R:203:GLU:HB2	1.60	0.83
3:R:204:ARG:HB2	3:R:213:SER:OG	1.78	0.83
3:B:579:LEU:HD12	3:B:616:LEU:HD12	1.58	0.83
1:Q:548:GLY:O	1:Q:551:VAL:HG12	1.78	0.83
3:B:315:LEU:O	3:B:319:ILE:HG12	1.79	0.83
4:D:131:VAL:HG22	4:D:132:LEU:N	1.90	0.83
1:Q:527:VAL:HG13	1:Q:630:ASN:HB3	1.60	0.83
3:R:60:LEU:HD22	3:R:98:LEU:HD21	1.58	0.83
3:R:451:GLY:H	3:R:647:ILE:HG23	1.42	0.83
3:B:330:ARG:O	3:B:331:GLU:HB2	1.78	0.83
3:B:338:TYR:HB2	3:B:448:THR:HG21	1.60	0.83
3:B:517:TRP:HD1	3:B:531:GLN:H	1.23	0.83

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:N:64:ARG:H	10:N:64:ARG:HD3	1.42	0.83
3:R:1014:ARG:HG3	3:R:1095:TYR:CD2	2.14	0.83
1:Q:369:PRO:CB	1:Q:376:ASN:HB3	2.08	0.83
1:Q:647:ARG:NH1	3:R:965:ASP:HB2	1.93	0.83
3:R:582:VAL:HG13	3:R:586:ASN:N	1.93	0.83
4:S:131:VAL:HG22	4:S:132:LEU:N	1.93	0.83
10:Y:60:ILE:HG23	10:Y:61:HIS:H	1.43	0.83
3:B:582:VAL:HG13	3:B:586:ASN:N	1.94	0.83
1:Q:290:ARG:NH1	1:Q:291:SER:HB2	1.94	0.83
3:R:591:ILE:H	3:R:591:ILE:HD12	1.43	0.83
1:A:219:ILE:H	1:A:219:ILE:HD13	1.43	0.83
3:B:591:ILE:H	3:B:591:ILE:HD12	1.41	0.83
2:G:337:GLU:HG2	2:G:338:LYS:H	1.44	0.83
2:G:391:ARG:HH22	8:W:39:ARG:NH1	1.75	0.83
3:R:702:LEU:N	3:R:721:ASN:HD21	1.76	0.83
3:B:702:LEU:HD13	10:N:47:ARG:CZ	2.08	0.83
3:R:330:ARG:O	3:R:331:GLU:HB2	1.79	0.83
3:R:665:ARG:HG3	3:R:920:THR:HG21	1.60	0.83
3:B:59:ARG:HH22	3:B:107:ILE:HB	1.44	0.82
3:R:873:THR:HG22	3:R:874:ILE:N	1.94	0.82
5:T:53:THR:HB	5:T:71:GLU:N	1.92	0.82
7:V:28:ALA:HB1	7:V:62:ILE:HD11	1.60	0.82
3:B:220:LYS:H	3:B:275:ARG:NH1	1.77	0.82
3:B:1069:TRP:CH2	3:B:1077:TYR:HB2	2.14	0.82
4:D:144:ARG:C	4:D:145:LEU:HD12	2.00	0.82
1:Q:716:SER:HB2	1:Q:726:TYR:OH	1.79	0.82
1:Q:853:ASP:HB2	2:G:311:ARG:HH12	1.44	0.82
5:T:39:LEU:HD22	5:T:42:LEU:HG	1.61	0.82
1:A:647:ARG:NH1	3:B:965:ASP:HB2	1.95	0.82
3:B:904:VAL:HG21	10:N:42:ARG:HE	1.42	0.82
3:R:98:LEU:HD12	3:R:116:ILE:HD11	1.61	0.82
4:S:25:VAL:HG21	4:S:226:TYR:HD1	1.45	0.82
1:A:691:THR:HG22	1:A:692:LEU:HD12	1.58	0.82
3:B:1072:LYS:HG2	3:B:1077:TYR:HB3	1.59	0.82
2:G:57:LYS:HA	2:G:57:LYS:HE3	1.59	0.82
3:R:497:VAL:HG12	3:R:498:GLU:N	1.91	0.82
3:R:902:LYS:HB2	10:Y:42:ARG:NH1	1.94	0.82
3:B:246:PRO:HG2	3:B:249:GLN:HG2	1.59	0.82
3:B:490:TYR:HE1	3:B:527:ILE:HG21	1.43	0.82
3:R:220:LYS:H	3:R:275:ARG:NH1	1.77	0.82
4:S:40:ALA:HB3	4:S:156:PHE:HE2	1.45	0.82

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:57:LYS:HA	2:C:57:LYS:HE3	1.62	0.82
3:B:453:MET:HG2	3:B:468:LYS:HD2	1.61	0.82
5:E:39:LEU:HD22	5:E:42:LEU:HG	1.62	0.82
6:U:19:LYS:HG3	6:U:49:ALA:HB2	1.60	0.82
10:Y:64:ARG:H	10:Y:64:ARG:HD3	1.44	0.82
3:B:497:VAL:HG23	3:B:527:ILE:O	1.80	0.82
3:B:560:THR:HB	3:B:563:ILE:HB	1.58	0.82
3:B:797:VAL:HB	11:P:36:MET:HE1	1.59	0.82
4:D:44:VAL:HA	4:D:143:ALA:HA	1.62	0.82
4:D:53:LEU:HD22	4:D:57:ILE:HG21	1.62	0.82
7:H:42:LEU:HD11	7:H:80:TYR:HB2	1.60	0.82
3:R:373:LYS:HE3	3:R:375:ARG:HD2	1.60	0.82
1:A:747:LEU:HD11	1:A:790:LEU:HD21	1.60	0.82
3:B:803:GLU:HB3	3:B:805:LYS:NZ	1.94	0.82
3:B:933:ALA:HB3	10:N:47:ARG:HH12	1.44	0.82
3:R:59:ARG:HH22	3:R:107:ILE:HB	1.44	0.82
5:T:79:PRO:HG3	5:T:160:ILE:HD11	1.59	0.82
1:A:704:LEU:HD13	1:A:781:PHE:HD1	1.43	0.82
1:A:807:VAL:HG21	3:B:443:ARG:HD3	1.61	0.82
2:C:393:ILE:HG21	2:C:395:ARG:HH21	1.45	0.82
3:B:569:ASN:HB3	3:B:574:ARG:NH2	1.94	0.82
5:E:82:GLN:HA	5:E:145:ARG:HG3	1.62	0.82
7:H:28:ALA:HB1	7:H:62:ILE:HD11	1.60	0.82
2:G:269:VAL:HA	2:G:272:VAL:HG23	1.62	0.82
3:R:246:PRO:HG2	3:R:249:GLN:HG2	1.60	0.82
3:R:418:ASN:HD21	3:R:420:LEU:HB3	1.43	0.82
3:R:490:TYR:HE1	3:R:527:ILE:HG21	1.43	0.82
1:A:203:ARG:HH11	1:A:203:ARG:HG3	1.43	0.81
3:B:355:ARG:NH1	3:B:355:ARG:HB2	1.95	0.81
3:B:874:ILE:H	3:B:874:ILE:CD1	1.91	0.81
1:A:704:LEU:HD22	1:A:781:PHE:CE1	2.13	0.81
3:B:248:VAL:HG11	3:B:329:ARG:HH12	1.43	0.81
3:B:700:ARG:O	10:N:51:SER:HB2	1.80	0.81
3:R:325:LEU:HD21	3:R:332:PRO:HD3	1.60	0.81
7:V:11:PRO:HG2	7:V:50:PRO:O	1.80	0.81
1:A:238:LYS:NZ	1:A:297:THR:CB	2.37	0.81
3:B:650:ILE:H	3:B:650:ILE:CD1	1.90	0.81
10:N:38:LEU:HD23	10:N:39:GLY:N	1.95	0.81
3:R:191:SER:HA	3:R:300:HIS:NE2	1.94	0.81
3:R:453:MET:HG2	3:R:468:LYS:HD2	1.60	0.81
3:R:665:ARG:HG3	3:R:920:THR:CG2	2.10	0.81

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:687:ARG:NH1	3:R:689:ASP:OD1	2.13	0.81
3:R:726:VAL:HG12	3:R:912:PRO:HG3	1.61	0.81
3:B:204:ARG:HB2	3:B:213:SER:OG	1.79	0.81
3:R:539:LYS:O	3:R:543:ARG:HG3	1.79	0.81
5:E:179:LYS:HZ1	6:F:82:GLU:HG3	1.45	0.81
1:Q:4:LYS:NZ	3:R:1115:LEU:HB3	1.95	0.81
3:R:119:LEU:HD12	3:R:120:PRO:HD2	1.61	0.81
3:R:579:LEU:HD12	3:R:616:LEU:HD12	1.61	0.81
3:R:1050:LEU:HD23	3:R:1051:ASP:H	1.42	0.81
3:B:589:VAL:O	3:B:591:ILE:N	2.14	0.81
3:B:602:ILE:HG22	3:B:603:THR:H	1.43	0.81
1:Q:691:THR:HG22	1:Q:692:LEU:HD12	1.61	0.81
4:S:66:PRO:HB2	4:S:124:ILE:HG12	1.61	0.81
10:Y:38:LEU:HD23	10:Y:39:GLY:H	1.46	0.81
3:B:962:TYR:OH	10:N:42:ARG:HD2	1.80	0.81
5:E:53:THR:HB	5:E:71:GLU:N	1.95	0.81
3:R:50:PRO:HG2	3:R:51:THR:H	1.46	0.81
1:A:279:ASN:HB2	1:A:297:THR:CG2	2.10	0.81
1:A:743:MET:O	1:A:785:SER:HB2	1.80	0.81
3:B:14:ILE:O	3:B:17:TYR:HB3	1.80	0.81
3:B:848:ASP:HB2	3:B:867:ARG:HB2	1.61	0.81
3:B:1004:ARG:HH21	3:B:1007:GLY:H	1.29	0.81
3:R:700:ARG:O	10:Y:51:SER:HB2	1.80	0.81
3:R:851:LEU:HG	11:Z:35:PHE:HD2	1.44	0.81
5:T:53:THR:HG23	5:T:55:GLU:HG3	1.63	0.81
1:A:238:LYS:NZ	1:A:276:TYR:HA	1.95	0.81
2:G:390:MET:HB2	5:T:56:GLU:CG	2.11	0.81
3:R:197:ARG:HH22	3:R:359:LYS:HG2	1.46	0.81
3:R:813:LYS:O	3:R:814:VAL:HG23	1.80	0.81
3:R:902:LYS:HB3	10:Y:42:ARG:HD3	1.64	0.81
3:R:933:ALA:HB3	10:Y:47:ARG:HH12	1.46	0.80
4:D:190:LEU:HD22	4:D:195:LEU:CA	2.12	0.80
3:R:88:ARG:NH1	3:R:854:GLU:O	2.13	0.80
3:B:451:GLY:H	3:B:647:ILE:HG23	1.44	0.80
8:K:63:SER:C	8:K:65:ALA:H	1.85	0.80
3:R:962:TYR:OH	10:Y:42:ARG:HD2	1.81	0.80
1:A:276:TYR:HD2	1:A:277:PHE:CE1	1.98	0.80
1:A:369:PRO:CB	1:A:376:ASN:HB3	2.11	0.80
3:B:557:HIS:H	3:B:623:ASN:ND2	1.78	0.80
3:B:813:LYS:O	3:B:814:VAL:HG23	1.81	0.80
2:G:120:PRO:HA	2:G:275:ASN:HD21	1.46	0.80

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:V:45:ILE:HG22	7:V:80:TYR:H	1.45	0.80
1:A:181:ARG:O	1:A:185:GLU:HG3	1.82	0.80
2:G:85:MET:HB3	2:G:304:GLN:OE1	1.82	0.80
3:R:248:VAL:HG21	3:R:329:ARG:HH22	1.45	0.80
3:R:361:PHE:HE1	3:R:385:VAL:HG13	1.45	0.80
3:R:602:ILE:HG22	3:R:603:THR:N	1.96	0.80
4:S:13:ILE:CD1	4:S:238:PRO:HB2	2.12	0.80
1:Q:747:LEU:HD11	1:Q:790:LEU:HD21	1.63	0.80
3:R:403:TRP:O	3:R:404:VAL:HG23	1.81	0.80
3:R:589:VAL:O	3:R:591:ILE:N	2.14	0.80
3:B:355:ARG:HB2	3:B:355:ARG:HH11	1.47	0.80
3:B:386:ARG:HB2	3:B:389:ILE:HD11	1.64	0.80
2:G:379:ILE:HD11	3:R:1042:ALA:HA	1.62	0.80
3:R:1047:ASP:HA	3:R:1051:ASP:HB2	1.64	0.80
5:T:82:GLN:HA	5:T:145:ARG:HG3	1.63	0.80
2:C:269:VAL:HA	2:C:272:VAL:HG23	1.63	0.80
3:B:88:ARG:NH1	3:B:854:GLU:O	2.14	0.80
3:B:189:ILE:HB	3:B:203:GLU:HB2	1.61	0.80
5:E:53:THR:HG23	5:E:55:GLU:HG3	1.63	0.80
2:G:28:ILE:HB	8:W:18:VAL:HG21	1.64	0.80
3:R:764:LYS:NZ	3:R:814:VAL:H	1.79	0.80
4:S:34:LEU:HD22	4:S:151:LYS:HB2	1.63	0.80
4:S:37:PRO:HA	4:S:148:GLY:O	1.82	0.80
4:S:175:ASN:HA	4:S:195:LEU:CD1	2.11	0.80
2:C:392:PRO:HB3	5:E:22:LEU:HD11	1.64	0.80
3:B:318:ALA:O	3:B:321:LYS:HB2	1.81	0.80
3:B:475:GLN:HG2	3:B:476:ILE:H	1.46	0.80
3:B:702:LEU:HD13	10:N:47:ARG:NE	1.96	0.80
5:E:107:LEU:HD12	5:E:108:VAL:H	1.45	0.80
1:Q:721:PRO:HA	1:Q:726:TYR:HD1	1.46	0.80
3:R:318:ALA:O	3:R:321:LYS:HB2	1.82	0.80
3:R:1080:PRO:O	3:R:1081:ILE:HG13	1.81	0.80
1:A:57:LYS:HD2	1:A:60:THR:HA	1.65	0.79
3:B:855:THR:HB	3:B:857:GLU:HG2	1.64	0.79
5:T:38:ILE:HG22	5:T:39:LEU:H	1.47	0.79
5:T:107:LEU:HD12	5:T:108:VAL:H	1.46	0.79
6:F:19:LYS:HG3	6:F:49:ALA:HB2	1.62	0.79
3:R:450:TRP:HZ2	3:R:641:GLU:OE1	1.64	0.79
3:R:1014:ARG:HG2	3:R:1014:ARG:HH11	1.48	0.79
4:S:144:ARG:C	4:S:145:LEU:HD12	2.03	0.79
7:V:12:ARG:HD3	7:V:12:ARG:N	1.96	0.79

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:245:ILE:HD13	1:A:268:LEU:HB3	1.65	0.79
1:A:764:ARG:HB3	1:A:764:ARG:HH11	1.47	0.79
3:B:98:LEU:HD12	3:B:116:ILE:HD11	1.61	0.79
3:R:1004:ARG:NH1	3:R:1025:GLY:H	1.81	0.79
10:Y:3:ILE:H	10:Y:3:ILE:HD12	1.47	0.79
1:A:256:GLY:O	1:A:258:PRO:HD3	1.81	0.79
3:B:249:GLN:HG3	3:B:250:ASN:N	1.98	0.79
1:Q:764:ARG:HB3	1:Q:764:ARG:HH11	1.47	0.79
3:R:248:VAL:HA	3:R:251:GLU:OE2	1.83	0.79
3:R:315:LEU:O	3:R:319:ILE:HG12	1.83	0.79
3:R:801:GLU:HG3	11:Z:38:ARG:NH2	1.98	0.79
1:A:421:ARG:HB2	1:A:462:MET:HE3	1.65	0.79
3:B:403:TRP:C	3:B:404:VAL:HG23	2.01	0.79
3:R:148:PRO:HG3	3:R:422:MET:HE3	1.65	0.79
3:R:579:LEU:O	3:R:613:ILE:HG23	1.83	0.79
3:B:248:VAL:HG21	3:B:329:ARG:HH22	1.47	0.79
3:B:687:ARG:NH1	3:B:689:ASP:OD1	2.16	0.79
1:Q:181:ARG:O	1:Q:185:GLU:HG3	1.82	0.79
1:Q:486:ILE:HD11	1:Q:628:MET:CE	2.13	0.79
1:Q:541:ALA:HB1	1:Q:542:PRO:HD3	1.65	0.79
3:R:386:ARG:HB2	3:R:389:ILE:HD11	1.64	0.79
3:R:702:LEU:HD13	10:Y:47:ARG:CZ	2.13	0.79
4:S:53:LEU:HD22	4:S:57:ILE:HG21	1.63	0.79
1:A:289:HIS:HB2	1:A:295:LEU:HD21	1.64	0.79
3:B:64:ARG:O	3:B:97:TRP:HB2	1.83	0.79
3:B:223:PHE:CE1	3:B:227:MET:HG3	2.18	0.79
1:Q:452:PRO:HA	1:Q:495:ILE:HD11	1.63	0.79
8:W:92:LEU:O	8:W:92:LEU:HD23	1.82	0.79
1:A:446:ASN:C	1:A:446:ASN:HD22	1.86	0.79
1:A:830:LEU:CD2	1:A:840:SER:HB3	2.13	0.79
3:B:739:ILE:HG23	3:B:909:ILE:HB	1.63	0.79
7:H:12:ARG:HD3	7:H:12:ARG:N	1.96	0.79
1:Q:16:PRO:HD3	1:Q:206:TRP:HD1	1.45	0.79
3:R:874:ILE:HD12	3:R:874:ILE:N	1.98	0.79
4:S:190:LEU:HD22	4:S:195:LEU:CA	2.12	0.79
5:T:179:LYS:NZ	6:U:81:ASP:HB2	1.98	0.79
3:R:355:ARG:NH1	3:R:355:ARG:HB2	1.98	0.79
2:C:274:THR:HG22	2:C:275:ASN:N	1.96	0.79
2:C:310:ILE:HD12	2:C:310:ILE:N	1.98	0.79
1:Q:216:PRO:HG2	1:Q:219:ILE:HD12	1.65	0.79
1:Q:397:LEU:HA	1:Q:400:THR:OG1	1.83	0.79

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:324:THR:HG22	1:Q:325:VAL:H	1.47	0.78
5:T:179:LYS:HZ2	6:U:79:THR:HB	1.47	0.78
3:B:922:GLY:HA2	3:B:925:MET:HB2	1.65	0.78
10:N:1:MET:HB3	10:N:56:ILE:HD13	1.65	0.78
3:R:739:ILE:HG23	3:R:909:ILE:HB	1.63	0.78
5:T:179:LYS:HZ1	6:U:82:GLU:N	1.80	0.78
1:A:301:ARG:O	1:A:302:LEU:HG	1.83	0.78
1:A:716:SER:HB2	1:A:726:TYR:OH	1.83	0.78
1:A:721:PRO:HA	1:A:726:TYR:HD1	1.49	0.78
1:Q:14:LEU:HB3	3:R:1108:ILE:HG23	1.64	0.78
1:A:14:LEU:HB3	3:B:1108:ILE:HG23	1.66	0.78
1:A:59:PRO:O	1:A:60:THR:HG22	1.84	0.78
2:C:120:PRO:HA	2:C:275:ASN:HD21	1.47	0.78
2:C:145:GLU:HG2	2:C:240:ALA:H	1.47	0.78
3:B:248:VAL:HA	3:B:251:GLU:OE2	1.84	0.78
3:R:14:ILE:O	3:R:17:TYR:HB3	1.83	0.78
10:Y:38:LEU:HD23	10:Y:39:GLY:N	1.98	0.78
1:A:477:LYS:O	1:A:481:LEU:HB2	1.82	0.78
2:G:383:THR:HG22	3:R:1042:ALA:H	1.47	0.78
3:R:650:ILE:HD13	3:R:650:ILE:N	1.97	0.78
1:A:293:ARG:NH1	1:A:296:ARG:HH22	1.79	0.78
1:A:334:ILE:HD11	1:A:628:MET:HB3	1.64	0.78
1:A:530:VAL:O	1:A:530:VAL:HG13	1.81	0.78
3:B:234:THR:HG22	3:B:236:ARG:H	1.49	0.78
1:Q:219:ILE:H	1:Q:219:ILE:HD13	1.47	0.78
1:A:509:LEU:O	1:A:548:GLY:HA3	1.84	0.78
3:B:602:ILE:HG22	3:B:603:THR:N	1.98	0.78
3:B:873:THR:HG22	3:B:874:ILE:N	1.96	0.78
4:D:66:PRO:HB2	4:D:124:ILE:HG12	1.65	0.78
3:R:355:ARG:HB2	3:R:355:ARG:HH11	1.49	0.78
3:R:1072:LYS:HG2	3:R:1077:TYR:HB3	1.63	0.78
1:A:486:ILE:HD11	1:A:628:MET:CE	2.14	0.78
2:C:28:ILE:HD13	8:K:14:HIS:CB	2.14	0.78
3:B:773:ILE:HG12	3:B:813:LYS:HG2	1.64	0.78
5:E:135:VAL:H	5:E:174:TRP:HZ2	1.31	0.78
1:Q:59:PRO:O	1:Q:60:THR:HG22	1.84	0.78
1:Q:600:LYS:HB2	1:Q:732:GLY:HA3	1.65	0.78
3:R:1069:TRP:CH2	3:R:1077:TYR:HB2	2.17	0.78
5:T:142:VAL:HG12	5:T:171:LYS:HA	1.65	0.78
8:W:63:SER:C	8:W:65:ALA:H	1.86	0.78
2:C:329:ILE:HA	2:C:334:VAL:CG1	2.11	0.78

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:450:TRP:HZ2	3:B:641:GLU:OE1	1.66	0.78
4:D:175:ASN:HA	4:D:195:LEU:CD1	2.14	0.78
3:R:435:ARG:HG2	3:R:435:ARG:HH11	1.49	0.78
3:B:445:LEU:HD21	3:B:455:PRO:HA	1.64	0.78
3:B:1033:ARG:HH11	3:B:1033:ARG:HG3	1.49	0.78
4:D:25:VAL:HG21	4:D:226:TYR:HD1	1.47	0.78
4:D:177:GLU:HB2	4:D:178:LYS:NZ	1.99	0.78
1:Q:336:GLU:HA	1:Q:434:ARG:O	1.84	0.78
1:Q:563:HIS:HB2	1:Q:872:PHE:CE2	2.18	0.78
2:G:111:VAL:CG1	2:G:329:ILE:HD12	2.14	0.78
3:R:234:THR:HG22	3:R:236:ARG:H	1.49	0.78
3:B:650:ILE:HD13	3:B:650:ILE:N	1.98	0.77
3:B:852:ILE:HG23	3:B:862:VAL:HG22	1.66	0.77
1:Q:276:TYR:HD2	1:Q:277:PHE:CE1	2.01	0.77
1:Q:293:ARG:HG2	1:Q:296:ARG:NH2	2.00	0.77
2:G:70:ILE:HA	2:G:73:VAL:HG22	1.65	0.77
1:A:324:THR:HG22	1:A:325:VAL:H	1.47	0.77
1:Q:589:LYS:NZ	1:Q:879:LYS:H	1.81	0.77
3:R:361:PHE:CE1	3:R:385:VAL:HG13	2.18	0.77
7:V:15:TYR:HB3	7:V:16:LEU:HD12	1.66	0.77
10:Y:7:CYS:HB3	10:Y:45:CYS:SG	2.24	0.77
3:B:749:MET:HB2	10:N:8:PHE:CD1	2.19	0.77
3:R:557:HIS:H	3:R:623:ASN:ND2	1.82	0.77
3:R:749:MET:HB2	10:Y:8:PHE:CD1	2.20	0.77
4:S:4:ASN:HA	9:X:90:LEU:HD22	1.66	0.77
5:T:18:PHE:HB2	8:W:48:PRO:HD2	1.65	0.77
1:A:339:VAL:HG21	1:A:435:VAL:HG23	1.65	0.77
1:A:728:MET:CE	3:B:913:HIS:HA	2.15	0.77
3:B:435:ARG:HG2	3:B:435:ARG:HH11	1.48	0.77
3:B:918:ARG:O	3:B:920:THR:HG23	1.85	0.77
3:B:1047:ASP:HA	3:B:1051:ASP:HB2	1.66	0.77
1:Q:464:LEU:HD13	1:Q:465:HIS:N	2.00	0.77
2:G:392:PRO:CB	5:T:22:LEU:HD21	2.14	0.77
3:R:497:VAL:HG23	3:R:527:ILE:O	1.84	0.77
3:R:554:ASN:ND2	3:R:576:ARG:HH21	1.82	0.77
3:R:757:LEU:HD23	3:R:758:TYR:N	2.00	0.77
3:R:803:GLU:HB3	3:R:805:LYS:HZ1	1.50	0.77
3:R:965:ASP:O	3:R:967:THR:N	2.17	0.77
5:T:145:ARG:NH2	5:T:169:LEU:HD11	2.00	0.77
2:C:28:ILE:HD13	8:K:14:HIS:HB3	1.66	0.77
3:B:726:VAL:HG12	3:B:912:PRO:HG3	1.66	0.77

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:764:LYS:NZ	3:B:814:VAL:H	1.81	0.77
3:B:965:ASP:O	3:B:967:THR:N	2.18	0.77
1:Q:57:LYS:HD2	1:Q:60:THR:HA	1.67	0.77
1:Q:289:HIS:HB2	1:Q:295:LEU:HD21	1.66	0.77
1:Q:475:GLU:CD	2:G:383:THR:HG21	2.05	0.77
1:Q:830:LEU:CD2	1:Q:840:SER:HB3	2.14	0.77
3:R:301:LEU:HD22	3:R:483:ARG:HH21	1.49	0.77
4:D:148:GLY:HA3	4:D:156:PHE:CD1	2.20	0.77
6:F:14:TYR:CD1	6:F:74:SER:HB2	2.19	0.77
7:H:15:TYR:HB3	7:H:16:LEU:HD12	1.67	0.77
2:G:281:GLU:OE1	2:G:326:VAL:HG12	1.84	0.77
3:R:749:MET:HG2	3:R:750:TYR:CD1	2.20	0.77
3:R:1004:ARG:HH21	3:R:1007:GLY:H	1.33	0.77
3:B:361:PHE:HE1	3:B:385:VAL:HG13	1.49	0.77
3:B:902:LYS:HB2	10:N:42:ARG:NH1	2.00	0.77
3:B:702:LEU:HB3	10:N:47:ARG:NH2	1.98	0.77
1:Q:90:ILE:HG21	1:Q:208:ILE:HD11	1.67	0.77
1:Q:238:LYS:NZ	1:Q:276:TYR:HA	2.00	0.77
1:Q:509:LEU:O	1:Q:548:GLY:HA3	1.84	0.77
3:R:1033:ARG:HH11	3:R:1033:ARG:HG3	1.50	0.77
5:T:75:ILE:HG21	6:U:21:LEU:HD21	1.67	0.77
7:V:45:ILE:HB	7:V:79:ARG:HB3	1.67	0.77
3:B:50:PRO:HG2	3:B:51:THR:H	1.50	0.77
1:Q:262:ILE:HG12	1:Q:266:TRP:NE1	2.00	0.77
1:Q:339:VAL:HG21	1:Q:435:VAL:HG23	1.67	0.77
2:G:145:GLU:HG2	2:G:240:ALA:H	1.48	0.77
2:G:390:MET:HG3	5:T:57:GLY:N	2.00	0.77
5:T:64:GLY:H	8:W:41:LEU:CD2	1.97	0.77
8:W:18:VAL:HG12	8:W:22:LEU:HD12	1.66	0.77
9:X:31:THR:O	9:X:35:ILE:HG12	1.85	0.77
2:C:331:ARG:HD2	2:C:349:VAL:HG12	1.67	0.77
3:B:640:LEU:HD23	3:B:641:GLU:N	1.97	0.77
3:R:249:GLN:HG3	3:R:250:ASN:N	1.99	0.77
3:R:554:ASN:HD21	3:R:576:ARG:NH2	1.83	0.77
3:R:855:THR:HB	3:R:857:GLU:HG2	1.67	0.77
3:B:758:TYR:O	3:B:759:SER:HB3	1.84	0.76
3:R:206:LYS:O	3:R:210:PHE:HA	1.85	0.76
4:S:8:LYS:HD2	4:S:13:ILE:HG12	1.65	0.76
3:R:248:VAL:HG11	3:R:329:ARG:NH1	2.00	0.76
3:R:654:ILE:HD12	3:R:654:ILE:H	1.49	0.76
8:W:18:VAL:O	8:W:22:LEU:HB2	1.85	0.76

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:85:MET:HB3	2:C:304:GLN:OE1	1.86	0.76
3:B:727:MET:HE3	3:B:898:PRO:HG3	1.67	0.76
3:B:749:MET:HG2	3:B:750:TYR:CD1	2.21	0.76
4:S:180:VAL:CG2	4:S:190:LEU:HG	2.16	0.76
8:W:50:LEU:CD2	8:W:75:PRO:HD3	2.16	0.76
1:A:336:GLU:HA	1:A:434:ARG:O	1.85	0.76
1:A:502:TYR:CE1	1:A:636:ILE:HD11	2.20	0.76
3:B:301:LEU:HD22	3:B:483:ARG:HH21	1.49	0.76
6:F:16:VAL:HG22	6:F:49:ALA:HA	1.67	0.76
1:Q:52:ILE:O	1:Q:53:GLU:HB2	1.85	0.76
1:Q:477:LYS:O	1:Q:481:LEU:HB2	1.86	0.76
3:R:223:PHE:CE1	3:R:227:MET:HG3	2.21	0.76
3:R:403:TRP:C	3:R:404:VAL:HG23	2.04	0.76
1:Q:666:ASP:O	1:Q:670:VAL:HG13	1.85	0.76
2:G:14:GLU:O	2:G:17:VAL:HG12	1.86	0.76
3:R:473:MET:HA	3:R:577:ARG:NH2	2.00	0.76
9:X:72:ALA:O	9:X:76:ILE:HG12	1.85	0.76
2:C:120:PRO:HB3	2:C:256:SER:HB3	1.68	0.76
3:B:560:THR:CG2	3:B:562:PHE:H	1.92	0.76
9:L:72:ALA:O	9:L:76:ILE:HG12	1.85	0.76
3:R:848:ASP:HB2	3:R:867:ARG:HB2	1.64	0.76
5:T:101:LEU:HD21	5:T:162:LEU:HD11	1.68	0.76
1:A:262:ILE:HG12	1:A:266:TRP:NE1	2.01	0.76
2:C:277:ILE:HG22	2:C:278:ARG:H	1.48	0.76
2:C:379:ILE:HD11	3:B:1042:ALA:HA	1.67	0.76
3:B:473:MET:HA	3:B:577:ARG:NH2	1.99	0.76
3:B:708:LEU:HD13	3:B:713:TYR:HB3	1.68	0.76
4:D:4:ASN:HA	9:L:90:LEU:HD22	1.67	0.76
3:R:708:LEU:HD13	3:R:713:TYR:HB3	1.66	0.76
3:R:764:LYS:NZ	3:R:772:LYS:O	2.15	0.76
4:S:79:PRO:O	4:S:83:ILE:HG13	1.86	0.76
4:S:177:GLU:HB2	4:S:178:LYS:NZ	2.00	0.76
5:T:18:PHE:CE2	8:W:42:GLN:HG2	2.20	0.76
5:T:179:LYS:NZ	6:U:82:GLU:H	1.84	0.76
1:A:16:PRO:HD3	1:A:206:TRP:HD1	1.47	0.76
1:A:193:GLU:O	1:A:195:LEU:N	2.19	0.76
3:B:727:MET:HE2	3:B:983:ILE:HG21	1.67	0.76
3:R:475:GLN:HG2	3:R:476:ILE:H	1.49	0.76
1:A:487:ILE:H	1:A:487:ILE:HD12	1.48	0.76
1:A:541:ALA:HB1	1:A:542:PRO:HD3	1.68	0.76
3:B:1004:ARG:NH1	3:B:1025:GLY:H	1.83	0.76

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:310:ILE:HD12	2:G:310:ILE:N	2.00	0.76
8:W:50:LEU:HD23	8:W:75:PRO:HD3	1.67	0.76
1:Q:245:ILE:HD13	1:Q:268:LEU:HB3	1.68	0.76
2:G:331:ARG:HD2	2:G:349:VAL:HG12	1.68	0.76
2:G:391:ARG:HG3	2:G:391:ARG:NH1	2.00	0.76
3:R:64:ARG:HG2	3:R:64:ARG:HH11	1.49	0.76
5:T:134:LYS:HD3	5:T:174:TRP:NE1	2.02	0.76
3:R:702:LEU:HD13	10:Y:47:ARG:NE	2.01	0.75
3:R:987:VAL:HG11	10:Y:47:ARG:NE	1.99	0.75
4:S:250:ILE:HA	4:S:253:ILE:HG22	1.68	0.75
1:A:293:ARG:HG2	1:A:296:ARG:NH2	2.01	0.75
1:A:569:SER:HB2	1:A:584:SER:OG	1.86	0.75
1:A:864:LYS:O	1:A:864:LYS:HG3	1.86	0.75
8:K:50:LEU:HD23	8:K:75:PRO:HD3	1.67	0.75
9:L:31:THR:O	9:L:35:ILE:HG12	1.85	0.75
3:R:861:LEU:HD12	3:R:862:VAL:N	2.01	0.75
1:A:308:ARG:HH21	3:B:1099:LEU:CD1	1.96	0.75
3:B:870:ARG:NH1	3:B:996:MET:HB2	2.01	0.75
7:H:45:ILE:HG22	7:H:80:TYR:H	1.50	0.75
1:Q:530:VAL:O	1:Q:530:VAL:HG13	1.85	0.75
3:R:581:ILE:HD11	3:R:614:GLU:CB	2.16	0.75
3:R:1060:VAL:CG1	3:R:1065:GLY:HA3	2.15	0.75
6:U:16:VAL:CG2	6:U:53:GLN:HG3	2.15	0.75
7:V:45:ILE:O	7:V:81:VAL:HA	1.86	0.75
5:E:179:LYS:NZ	6:F:82:GLU:HG3	2.02	0.75
1:Q:667:ARG:O	1:Q:670:VAL:HG22	1.87	0.75
4:S:148:GLY:HA3	4:S:156:PHE:CD1	2.22	0.75
5:T:170:GLY:N	5:T:175:ILE:HD11	2.00	0.75
1:A:563:HIS:HB2	1:A:872:PHE:CE2	2.20	0.75
1:A:733:ALA:HB1	3:B:913:HIS:HE1	1.52	0.75
3:B:147:ASP:OD2	3:B:148:PRO:HD2	1.85	0.75
3:B:183:ILE:HB	3:B:207:ASP:C	2.05	0.75
3:B:457:GLU:HG2	3:B:469:ASN:OD1	1.87	0.75
1:Q:293:ARG:NH1	1:Q:296:ARG:HH22	1.79	0.75
2:G:277:ILE:O	2:G:279:GLU:N	2.16	0.75
5:T:135:VAL:H	5:T:174:TRP:HZ2	1.31	0.75
7:V:65:ILE:HD12	7:V:65:ILE:N	2.02	0.75
1:A:216:PRO:HG2	1:A:219:ILE:HD12	1.68	0.75
8:K:34:ARG:O	8:K:37:SER:HB2	1.87	0.75
3:R:536:LEU:HD11	3:R:540:ILE:CD1	2.16	0.75
10:Y:7:CYS:SG	10:Y:48:MET:HG3	2.26	0.75

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:594:ILE:HD12	3:B:601:ALA:HB2	1.69	0.75
1:Q:308:ARG:HG3	1:Q:312:ASN:HD22	1.50	0.75
2:G:107:LEU:O	2:G:111:VAL:HG23	1.86	0.75
3:R:739:ILE:CG2	3:R:909:ILE:HB	2.17	0.75
3:R:1087:ASN:O	3:R:1088:LEU:HG	1.86	0.75
6:U:15:SER:O	6:U:19:LYS:HE2	1.86	0.75
3:B:554:ASN:ND2	3:B:576:ARG:HH21	1.83	0.75
3:B:771:ASP:CB	3:B:816:PRO:HD3	2.17	0.75
4:D:38:ILE:O	4:D:147:LEU:HA	1.86	0.75
6:F:35:GLN:HA	6:F:38:TYR:CD1	2.22	0.75
8:K:50:LEU:CD2	8:K:75:PRO:HD3	2.16	0.75
1:Q:681:ASN:O	1:Q:683:GLU:HG3	1.86	0.75
2:G:329:ILE:HA	2:G:334:VAL:CG1	2.17	0.75
5:T:149:VAL:HG13	5:T:159:ARG:O	1.86	0.75
7:V:23:LEU:HD12	7:V:62:ILE:HG12	1.69	0.75
1:A:176:THR:O	1:A:180:ILE:HG13	1.87	0.75
1:A:528:ALA:O	1:A:530:VAL:HG12	1.87	0.75
1:A:539:ILE:HB	1:A:545:TYR:HB2	1.67	0.75
3:B:665:ARG:HG3	3:B:920:THR:CG2	2.17	0.75
1:Q:334:ILE:HD11	1:Q:628:MET:HB3	1.68	0.75
3:R:104:GLU:O	3:R:105:ASN:HB2	1.85	0.75
3:R:490:TYR:CE1	3:R:527:ILE:HG21	2.21	0.75
6:U:16:VAL:HG22	6:U:49:ALA:HA	1.66	0.75
1:A:551:VAL:HG13	1:A:552:ILE:N	2.02	0.74
2:C:55:ALA:CA	2:C:58:GLU:HG3	2.17	0.74
3:B:554:ASN:HD21	3:B:576:ARG:NH2	1.83	0.74
5:E:6:LYS:HE3	6:F:8:GLU:HB2	1.67	0.74
1:Q:176:THR:O	1:Q:180:ILE:HG13	1.87	0.74
3:R:457:GLU:HG2	3:R:469:ASN:OD1	1.87	0.74
3:R:458:THR:HG21	3:R:465:GLY:N	1.97	0.74
4:S:175:ASN:CA	4:S:195:LEU:HD11	2.17	0.74
1:A:90:ILE:HG21	1:A:208:ILE:HD11	1.69	0.74
1:A:412:ILE:HD12	1:A:415:ASP:HB2	1.67	0.74
3:B:1069:TRP:HB2	3:B:1078:VAL:O	1.85	0.74
3:B:1114:VAL:HG23	3:B:1115:LEU:N	2.02	0.74
1:Q:491:TYR:CB	1:Q:607:GLN:OE1	2.34	0.74
2:G:355:LEU:CD2	3:R:1109:ILE:HD11	2.18	0.74
3:R:904:VAL:HG21	10:Y:42:ARG:HE	1.52	0.74
3:R:918:ARG:O	3:R:920:THR:HG23	1.86	0.74
3:B:724:LEU:HD12	3:B:908:ILE:HG22	1.69	0.74
4:D:131:VAL:CG2	4:D:132:LEU:H	1.99	0.74

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:K:92:LEU:HD23	8:K:92:LEU:O	1.86	0.74
1:Q:502:TYR:HE1	1:Q:636:ILE:HD11	1.52	0.74
2:G:286:ILE:CD1	7:V:45:ILE:HG13	2.17	0.74
3:R:64:ARG:O	3:R:97:TRP:HB2	1.86	0.74
3:R:445:LEU:HD21	3:R:455:PRO:HA	1.67	0.74
5:T:107:LEU:HD12	5:T:108:VAL:N	2.02	0.74
1:A:681:ASN:O	1:A:683:GLU:HG3	1.86	0.74
1:Q:426:HIS:CD2	1:Q:490:ARG:HH12	2.06	0.74
1:Q:538:ALA:HB2	1:Q:550:GLN:OE1	1.88	0.74
4:S:38:ILE:O	4:S:147:LEU:HA	1.87	0.74
1:A:600:LYS:HB2	1:A:732:GLY:HA3	1.70	0.74
2:C:391:ARG:HG3	2:C:391:ARG:NH1	1.96	0.74
3:B:104:GLU:O	3:B:105:ASN:HB2	1.86	0.74
3:B:458:THR:HG21	3:B:465:GLY:N	1.96	0.74
5:E:170:GLY:N	5:E:175:ILE:HD11	2.01	0.74
6:F:30:SER:HG	6:F:38:TYR:HE1	1.35	0.74
1:Q:328:PRO:HG3	1:Q:457:PHE:CG	2.23	0.74
4:S:131:VAL:CG2	4:S:132:LEU:H	2.01	0.74
5:T:38:ILE:O	5:T:39:LEU:HB2	1.87	0.74
1:A:640:GLU:OE1	3:B:974:ARG:NH1	2.20	0.74
3:B:1014:ARG:HG2	3:B:1014:ARG:HH11	1.52	0.74
4:D:250:ILE:HA	4:D:253:ILE:HG22	1.70	0.74
5:E:39:LEU:HD23	5:E:40:LYS:N	2.02	0.74
1:Q:632:PHE:HA	1:Q:635:PHE:CD1	2.22	0.74
3:R:59:ARG:NH2	3:R:107:ILE:HB	2.01	0.74
5:T:97:ILE:HD12	5:T:113:ILE:HD11	1.70	0.74
3:B:490:TYR:CE1	3:B:527:ILE:HG21	2.22	0.74
3:B:665:ARG:HG3	3:B:920:THR:HG21	1.69	0.74
5:E:142:VAL:HG12	5:E:171:LYS:HA	1.69	0.74
5:E:145:ARG:NH2	5:E:169:LEU:HD11	2.03	0.74
1:Q:743:MET:O	1:Q:785:SER:HB2	1.87	0.74
3:B:393:ARG:HE	3:B:403:TRP:HZ3	1.35	0.74
4:D:40:ALA:HB3	4:D:156:PHE:CE2	2.22	0.74
1:Q:238:LYS:CD	1:Q:276:TYR:HA	2.18	0.74
1:Q:301:ARG:O	1:Q:302:LEU:HG	1.87	0.74
2:G:391:ARG:HH21	8:W:42:GLN:CD	1.90	0.74
4:S:89:CYS:O	4:S:92:CYS:HB2	1.88	0.74
4:S:222:VAL:HG11	4:S:225:LYS:HD3	1.69	0.74
7:V:65:ILE:HD12	7:V:65:ILE:H	1.53	0.74
1:Q:539:ILE:HB	1:Q:545:TYR:HB2	1.69	0.74
1:Q:723:ASN:ND2	1:Q:723:ASN:C	2.40	0.74

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:975:THR:OG1	3:R:977:GLN:HG2	1.87	0.74
1:A:418:LEU:HD21	3:B:1044:LEU:CD2	2.14	0.74
1:A:828:SER:HB2	2:C:72:ILE:HD11	1.70	0.74
5:E:38:ILE:HG22	5:E:39:LEU:H	1.51	0.74
7:H:13:ILE:HG23	7:H:14:HIS:H	1.53	0.74
7:H:45:ILE:O	7:H:81:VAL:HA	1.87	0.74
1:Q:206:TRP:O	1:Q:208:ILE:N	2.20	0.74
1:Q:288:LYS:HG2	1:Q:294:PRO:HA	1.70	0.74
1:Q:827:LEU:HD11	2:G:315:LEU:HD13	1.68	0.74
3:R:48:GLU:HG3	3:R:365:LEU:HD23	1.70	0.74
3:R:65:ILE:HD12	3:R:65:ILE:N	2.00	0.74
1:A:475:GLU:CD	2:C:383:THR:HG21	2.08	0.73
2:C:107:LEU:O	2:C:111:VAL:HG23	1.88	0.73
3:B:401:GLY:O	3:B:402:ASN:O	2.06	0.73
4:D:37:PRO:HA	4:D:148:GLY:O	1.87	0.73
4:D:79:PRO:O	4:D:83:ILE:HG13	1.88	0.73
7:H:65:ILE:HD12	7:H:65:ILE:N	2.03	0.73
1:Q:647:ARG:HH11	3:R:965:ASP:CB	2.01	0.73
1:Q:826:ALA:HB1	2:G:334:VAL:HG13	1.67	0.73
1:Q:864:LYS:O	1:Q:864:LYS:HG3	1.87	0.73
3:R:10:ARG:HB2	3:R:642:ILE:O	1.88	0.73
1:A:761:TYR:CE2	1:A:767:PRO:HD3	2.24	0.73
2:C:144:LEU:O	2:C:146:TYR:N	2.21	0.73
4:D:89:CYS:O	4:D:92:CYS:HB2	1.87	0.73
6:F:56:ILE:HG23	6:F:69:ARG:HB3	1.70	0.73
6:F:77:PRO:HG3	6:F:83:VAL:HG22	1.69	0.73
7:H:45:ILE:HB	7:H:79:ARG:HB3	1.68	0.73
1:Q:487:ILE:H	1:Q:487:ILE:HD12	1.53	0.73
2:G:331:ARG:HD3	2:G:348:GLU:HB3	1.70	0.73
3:R:38:LYS:HG3	3:R:39:LEU:N	2.02	0.73
5:T:41:ASP:C	5:T:42:LEU:HD23	2.07	0.73
2:C:281:GLU:OE1	2:C:326:VAL:HG12	1.87	0.73
3:B:361:PHE:CE1	3:B:385:VAL:HG13	2.23	0.73
5:E:34:TYR:O	5:E:37:LYS:HB2	1.88	0.73
5:E:113:ILE:HG23	5:E:114:THR:H	1.53	0.73
2:G:277:ILE:HG22	2:G:278:ARG:H	1.54	0.73
1:A:666:ASP:O	1:A:670:VAL:HG13	1.87	0.73
2:C:355:LEU:CD2	3:B:1109:ILE:HD11	2.18	0.73
3:B:1051:ASP:O	3:B:1055:ARG:HD2	1.87	0.73
3:R:214:PHE:HZ	3:R:297:PHE:HA	1.54	0.73
9:X:62:SER:O	9:X:63:ILE:HD13	1.88	0.73

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:293:ARG:NH1	1:A:296:ARG:NH2	2.35	0.73
1:A:874:ARG:HE	2:C:53:ASP:CB	1.98	0.73
4:D:175:ASN:HA	4:D:195:LEU:HD21	1.70	0.73
1:Q:293:ARG:NH1	1:Q:296:ARG:NH2	2.36	0.73
2:G:122:MET:SD	2:G:256:SER:HA	2.29	0.73
3:R:52:GLU:HB2	3:R:56:LEU:HB3	1.71	0.73
3:R:193:THR:OG1	3:R:198:VAL:HA	1.88	0.73
3:R:763:VAL:HG23	3:R:859:ASN:OD1	1.88	0.73
2:C:389:THR:HG21	8:K:79:ARG:HH12	1.53	0.73
3:B:59:ARG:NH2	3:B:107:ILE:HB	2.02	0.73
3:B:579:LEU:O	3:B:613:ILE:HG23	1.88	0.73
4:D:222:VAL:HG11	4:D:225:LYS:HD3	1.70	0.73
3:R:555:VAL:HG22	3:R:568:VAL:HA	1.70	0.73
5:T:34:TYR:O	5:T:37:LYS:HB2	1.88	0.73
6:U:14:TYR:CD1	6:U:74:SER:HB2	2.23	0.73
1:A:397:LEU:HA	1:A:400:THR:OG1	1.89	0.73
1:A:827:LEU:HD11	2:C:315:LEU:HD13	1.71	0.73
2:C:111:VAL:CG1	2:C:329:ILE:HD12	2.16	0.73
5:E:101:LEU:HD21	5:E:162:LEU:HD11	1.71	0.73
7:H:69:SER:HB2	7:H:75:VAL:HG23	1.70	0.73
2:G:250:ILE:HG22	2:G:251:ILE:H	1.54	0.73
3:R:59:ARG:HH22	3:R:107:ILE:HD12	1.54	0.73
4:S:228:LEU:HD11	4:S:230:ILE:HD11	1.70	0.73
1:A:52:ILE:O	1:A:53:GLU:HB2	1.89	0.73
3:B:197:ARG:HH22	3:B:359:LYS:HG2	1.50	0.73
1:Q:4:LYS:HD3	3:R:1091:VAL:HB	1.70	0.73
3:R:473:MET:SD	3:R:474:ALA:N	2.61	0.73
3:R:890:MET:HE2	3:R:891:LEU:N	2.02	0.73
6:U:12:ILE:HG22	6:U:13:PRO:HD2	1.71	0.73
1:A:507:TYR:HB3	1:A:597:VAL:HG13	1.69	0.73
1:A:530:VAL:O	1:A:532:ILE:HG13	1.89	0.73
3:B:203:GLU:OE1	3:B:203:GLU:HA	1.87	0.73
3:B:757:LEU:HD23	3:B:758:TYR:N	2.03	0.73
4:D:13:ILE:CD1	4:D:238:PRO:HB2	2.17	0.73
2:G:120:PRO:HB3	2:G:256:SER:HB3	1.70	0.73
2:G:144:LEU:O	2:G:146:TYR:N	2.21	0.73
3:R:68:PRO:HA	3:R:93:ALA:O	1.89	0.73
3:R:724:LEU:HD12	3:R:908:ILE:HG22	1.69	0.73
3:R:870:ARG:NH1	3:R:996:MET:HB2	2.04	0.73
3:R:897:MET:SD	3:R:906:PRO:HG2	2.29	0.73
2:C:331:ARG:HD3	2:C:348:GLU:HB3	1.71	0.73

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:107:LEU:HD12	5:E:108:VAL:N	2.02	0.73
5:E:134:LYS:HD3	5:E:174:TRP:NE1	2.04	0.73
1:Q:761:TYR:CE2	1:Q:767:PRO:HD3	2.23	0.73
1:Q:775:SER:OG	1:Q:776:PRO:HD2	1.89	0.73
2:G:241:ILE:HG22	2:G:242:VAL:N	2.04	0.73
3:R:239:VAL:HA	3:R:253:PHE:CE2	2.23	0.73
3:R:758:TYR:O	3:R:759:SER:HB3	1.88	0.73
2:C:250:ILE:HG22	2:C:251:ILE:H	1.54	0.72
3:B:248:VAL:HG11	3:B:329:ARG:NH1	2.02	0.72
3:B:987:VAL:HG11	10:N:47:ARG:NE	2.03	0.72
10:N:35:LEU:CD2	10:N:40:VAL:HG21	2.18	0.72
1:Q:239:LEU:HD12	1:Q:276:TYR:HE1	1.54	0.72
1:Q:446:ASN:C	1:Q:446:ASN:HD22	1.92	0.72
1:Q:561:ASN:HA	1:Q:588:ILE:O	1.89	0.72
1:Q:839:ARG:HA	1:Q:844:GLU:O	1.89	0.72
1:Q:847:GLN:HG2	2:G:318:ASP:OD1	1.90	0.72
1:A:377:TYR:H	1:A:388:LEU:HB3	1.54	0.72
1:A:537:PRO:HB2	1:A:540:LEU:HD21	1.71	0.72
1:A:723:ASN:ND2	1:A:723:ASN:C	2.41	0.72
3:B:317:TYR:CD2	3:B:526:LEU:HD13	2.24	0.72
3:B:708:LEU:HD13	3:B:708:LEU:O	1.89	0.72
1:Q:409:ARG:HB3	1:Q:409:ARG:NH1	2.04	0.72
3:R:401:GLY:O	3:R:402:ASN:O	2.08	0.72
10:Y:55:ILE:H	10:Y:55:ILE:HD13	1.54	0.72
1:A:450:CYS:HB2	1:A:451:PRO:HD3	1.71	0.72
3:B:373:LYS:CE	3:B:375:ARG:HD2	2.19	0.72
3:B:780:VAL:HG11	3:B:831:ALA:HB3	1.70	0.72
4:D:8:LYS:HD2	4:D:13:ILE:HG12	1.69	0.72
1:Q:728:MET:CE	3:R:913:HIS:HA	2.18	0.72
2:G:24:LEU:HD11	2:G:58:GLU:OE1	1.89	0.72
2:G:72:ILE:O	2:G:76:GLN:HB2	1.89	0.72
3:R:65:ILE:H	3:R:65:ILE:CD1	2.01	0.72
1:A:507:TYR:HB2	1:A:511:VAL:HG13	1.72	0.72
3:B:900:THR:HG21	3:B:968:GLU:OE2	1.88	0.72
3:B:1109:ILE:O	3:B:1111:PRO:HD3	1.89	0.72
5:E:149:VAL:HG13	5:E:159:ARG:O	1.90	0.72
6:F:15:SER:O	6:F:19:LYS:HE2	1.88	0.72
9:L:84:ILE:O	9:L:87:ILE:HG22	1.89	0.72
3:R:43:ILE:HG21	3:R:63:ILE:CD1	2.20	0.72
3:R:602:ILE:CG2	3:R:603:THR:H	2.02	0.72
3:R:640:LEU:HD23	3:R:641:GLU:N	2.00	0.72

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:T:113:ILE:HG23	5:T:114:THR:H	1.54	0.72
1:A:491:TYR:CB	1:A:607:GLN:OE1	2.37	0.72
8:K:18:VAL:O	8:K:22:LEU:HB2	1.88	0.72
1:Q:589:LYS:HZ3	1:Q:879:LYS:H	1.37	0.72
2:G:274:THR:HG22	2:G:276:ASN:H	1.52	0.72
3:R:874:ILE:H	3:R:874:ILE:CD1	2.03	0.72
1:A:288:LYS:HG2	1:A:294:PRO:HA	1.71	0.72
1:A:512:LYS:HG3	1:A:583:ASP:OD2	1.87	0.72
2:C:391:ARG:HH21	8:K:42:GLN:CD	1.92	0.72
3:B:43:ILE:HG21	3:B:63:ILE:CD1	2.19	0.72
5:E:179:LYS:HE2	6:F:81:ASP:HB2	1.72	0.72
1:Q:81:VAL:HG12	1:Q:270:GLN:HG3	1.71	0.72
1:Q:733:ALA:HB1	3:R:913:HIS:HE1	1.54	0.72
3:R:163:THR:HG23	3:R:428:ARG:O	1.88	0.72
3:R:869:LEU:HD11	4:S:56:GLU:CB	2.15	0.72
1:A:7:LYS:HE2	2:C:365:GLU:OE2	1.89	0.72
1:A:426:HIS:CD2	1:A:490:ARG:HH12	2.06	0.72
1:A:831:ARG:HH21	2:C:385:MET:HB2	1.54	0.72
2:C:391:ARG:HH22	8:K:39:ARG:NH1	1.87	0.72
3:B:64:ARG:HG2	3:B:64:ARG:HH11	1.54	0.72
1:Q:409:ARG:HB3	1:Q:409:ARG:HH11	1.55	0.72
1:Q:530:VAL:O	1:Q:532:ILE:HG13	1.90	0.72
1:A:826:ALA:HB1	2:C:334:VAL:HG13	1.71	0.72
2:C:383:THR:HG22	3:B:1042:ALA:H	1.55	0.72
3:B:1060:VAL:CG1	3:B:1065:GLY:HA3	2.19	0.72
5:E:39:LEU:HD23	5:E:41:ASP:H	1.54	0.72
1:Q:6:ILE:HG13	3:R:1091:VAL:HG21	1.71	0.72
1:Q:7:LYS:HE2	2:G:365:GLU:OE2	1.90	0.72
1:Q:377:TYR:H	1:Q:388:LEU:HB3	1.54	0.72
7:V:21:GLU:O	7:V:63:ILE:HG23	1.90	0.72
1:A:206:TRP:O	1:A:208:ILE:N	2.22	0.72
1:A:632:PHE:HA	1:A:635:PHE:CD1	2.25	0.72
2:C:72:ILE:O	2:C:76:GLN:HB2	1.88	0.72
2:C:277:ILE:O	2:C:279:GLU:N	2.19	0.72
3:B:48:GLU:HG3	3:B:365:LEU:HD23	1.71	0.72
3:B:699:GLN:NE2	10:N:48:MET:HE3	2.05	0.72
3:B:764:LYS:HD3	3:B:815:SER:HA	1.70	0.72
3:B:902:LYS:HB3	10:N:42:ARG:HD3	1.72	0.72
3:R:781:ARG:CG	3:R:782:GLY:H	2.02	0.72
3:R:1069:TRP:HB2	3:R:1078:VAL:O	1.90	0.72
6:U:77:PRO:HG3	6:U:83:VAL:HG22	1.72	0.72

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:W:61:VAL:HG12	8:W:62:ILE:H	1.53	0.72
2:C:241:ILE:HG22	2:C:242:VAL:N	2.05	0.72
2:G:40:GLU:O	2:G:45:ARG:HG2	1.90	0.72
3:R:364:ASP:O	3:R:367:TYR:HB3	1.89	0.72
3:R:430:ILE:HG12	3:R:467:VAL:HG23	1.71	0.72
10:Y:1:MET:HB3	10:Y:56:ILE:HD13	1.72	0.72
1:A:308:ARG:HG3	1:A:312:ASN:HD22	1.54	0.71
1:A:733:ALA:HB1	3:B:913:HIS:CE1	2.25	0.71
3:B:68:PRO:HA	3:B:93:ALA:O	1.90	0.71
3:B:81:SER:HB3	3:B:84:GLU:HG3	1.71	0.71
3:B:390:VAL:O	3:B:394:ILE:HB	1.90	0.71
3:B:781:ARG:CG	3:B:782:GLY:H	2.02	0.71
3:B:861:LEU:HD12	3:B:862:VAL:N	2.05	0.71
8:K:18:VAL:HG12	8:K:22:LEU:HD12	1.72	0.71
1:Q:4:LYS:HG2	1:Q:5:ASN:N	2.04	0.71
3:R:544:ARG:HH11	3:R:544:ARG:HG3	1.54	0.71
3:R:560:THR:CG2	3:R:562:PHE:H	1.92	0.71
3:R:698:PRO:HB3	3:R:717:PRO:HG2	1.72	0.71
3:B:39:LEU:HD11	3:B:354:PHE:CE2	2.24	0.71
3:B:88:ARG:CD	3:B:853:THR:HG21	2.13	0.71
3:B:116:ILE:HD12	3:B:361:PHE:CZ	2.25	0.71
5:E:41:ASP:C	5:E:42:LEU:HD23	2.10	0.71
8:K:26:ARG:HG2	8:K:90:LEU:HB3	1.72	0.71
3:R:147:ASP:OD2	3:R:148:PRO:HD2	1.89	0.71
3:R:594:ILE:HD12	3:R:601:ALA:HB2	1.71	0.71
1:A:238:LYS:CD	1:A:276:TYR:HA	2.20	0.71
2:C:388:LEU:HD11	8:K:34:ARG:HG3	1.71	0.71
3:B:654:ILE:HD12	3:B:654:ILE:H	1.53	0.71
4:D:228:LEU:HD11	4:D:230:ILE:HD11	1.72	0.71
10:N:55:ILE:H	10:N:55:ILE:HD13	1.55	0.71
2:G:301:LEU:HD12	2:G:302:ALA:N	2.05	0.71
1:A:551:VAL:HG13	1:A:552:ILE:H	1.56	0.71
3:B:1050:LEU:HD23	3:B:1051:ASP:N	2.05	0.71
4:D:175:ASN:CA	4:D:195:LEU:HD11	2.19	0.71
4:D:190:LEU:HA	4:D:194:LYS:O	1.90	0.71
1:Q:47:PRO:HG2	1:Q:48:ARG:HD3	1.73	0.71
3:R:88:ARG:CD	3:R:853:THR:HG21	2.14	0.71
3:R:393:ARG:HE	3:R:403:TRP:HZ3	1.36	0.71
6:U:35:GLN:HA	6:U:38:TYR:CD1	2.25	0.71
7:V:69:SER:HB2	7:V:75:VAL:HG23	1.71	0.71
9:X:40:PHE:HE2	9:X:42:SER:HG	1.38	0.71

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:589:LYS:NZ	1:A:879:LYS:H	1.88	0.71
3:B:911:ASN:ND2	3:B:913:HIS:HB2	2.05	0.71
2:G:115:LYS:HD2	2:G:276:ASN:HD22	1.55	0.71
3:R:59:ARG:HH22	3:R:107:ILE:CG1	2.04	0.71
3:R:725:ALA:HB2	3:R:906:PRO:HB3	1.73	0.71
3:R:1079:CYS:SG	3:R:1080:PRO:HD2	2.31	0.71
1:A:350:PRO:HD3	1:A:468:GLN:HE22	1.56	0.71
1:A:538:ALA:HB2	1:A:550:GLN:OE1	1.91	0.71
3:B:139:ILE:HG21	10:N:61:HIS:HD2	1.56	0.71
3:B:210:PHE:HZ	3:B:323:ILE:HG22	1.56	0.71
3:B:330:ARG:HG2	3:B:330:ARG:HH11	1.56	0.71
3:B:371:LYS:O	3:B:373:LYS:N	2.23	0.71
3:B:416:ARG:HH12	3:B:687:ARG:HH21	1.39	0.71
3:B:663:SER:HB3	3:B:664:PRO:HD3	1.71	0.71
3:B:910:LEU:HD23	3:B:911:ASN:N	2.06	0.71
1:Q:864:LYS:HG3	2:G:32:LEU:HD11	1.72	0.71
3:R:427:ARG:HH11	3:R:650:ILE:HD12	1.55	0.71
3:R:762:GLU:O	3:R:764:LYS:HG3	1.91	0.71
3:R:930:GLY:HA2	10:Y:47:ARG:HH22	1.54	0.71
8:W:39:ARG:NH2	8:W:50:LEU:HD13	2.06	0.71
1:A:518:LYS:CE	1:A:544:GLU:HB2	2.19	0.71
2:C:69:ALA:CB	2:C:381:LEU:HD22	2.20	0.71
2:C:115:LYS:HD2	2:C:276:ASN:HD22	1.56	0.71
3:B:1004:ARG:NH2	3:B:1007:GLY:H	1.87	0.71
1:Q:653:LEU:CD1	1:Q:745:ALA:HB2	2.18	0.71
3:R:21:LYS:HA	3:R:25:ARG:CZ	2.20	0.71
4:S:98:ILE:CG1	4:S:114:ILE:HG12	2.21	0.71
1:A:667:ARG:O	1:A:670:VAL:HG22	1.91	0.71
3:B:52:GLU:HB2	3:B:56:LEU:HB3	1.73	0.71
3:B:536:LEU:HD11	3:B:540:ILE:CD1	2.20	0.71
1:Q:245:ILE:HD13	1:Q:268:LEU:HD13	1.71	0.71
1:Q:874:ARG:HE	2:G:53:ASP:CB	1.98	0.71
2:G:322:ARG:HD2	2:G:322:ARG:N	2.04	0.71
2:G:393:ILE:HB	5:T:18:PHE:O	1.91	0.71
3:R:390:VAL:O	3:R:394:ILE:HB	1.90	0.71
3:R:663:SER:HB3	3:R:664:PRO:HD3	1.71	0.71
3:R:771:ASP:CB	3:R:816:PRO:HD3	2.20	0.71
3:R:1114:VAL:HG23	3:R:1115:LEU:N	2.06	0.71
5:T:3:LYS:HA	6:U:12:ILE:HG13	1.73	0.71
6:U:56:ILE:HG23	6:U:69:ARG:HB3	1.71	0.71
9:X:84:ILE:O	9:X:87:ILE:HG22	1.91	0.71

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:452:PRO:HA	1:A:495:ILE:HD11	1.72	0.71
3:B:21:LYS:HA	3:B:25:ARG:CZ	2.21	0.71
3:B:214:PHE:HZ	3:B:297:PHE:HA	1.55	0.71
3:B:239:VAL:HA	3:B:253:PHE:CE2	2.25	0.71
3:B:555:VAL:HG22	3:B:568:VAL:HA	1.73	0.71
1:Q:491:TYR:HB2	1:Q:607:GLN:HE22	1.54	0.71
5:T:179:LYS:HZ3	6:U:79:THR:HB	1.54	0.71
8:W:61:VAL:HG12	8:W:62:ILE:N	2.06	0.71
2:C:322:ARG:N	2:C:322:ARG:HD2	2.05	0.71
3:B:700:ARG:N	10:N:51:SER:O	2.22	0.71
1:Q:756:ARG:NH2	1:Q:776:PRO:HA	2.06	0.71
3:R:39:LEU:HD11	3:R:354:PHE:CE2	2.26	0.71
3:R:183:ILE:HB	3:R:207:ASP:C	2.10	0.71
4:S:51:SER:HB2	4:S:52:PRO:HD2	1.73	0.71
3:B:10:ARG:HB2	3:B:642:ILE:O	1.90	0.70
3:B:252:LEU:HD12	3:B:323:ILE:HB	1.73	0.70
1:Q:736:SER:HB3	1:Q:739:ASN:OD1	1.90	0.70
3:R:371:LYS:O	3:R:373:LYS:N	2.23	0.70
3:R:971:TYR:CE2	4:S:165:ARG:HA	2.25	0.70
1:A:15:SER:HA	1:A:203:ARG:NH2	2.07	0.70
1:A:481:LEU:HD23	1:A:482:VAL:H	1.55	0.70
4:D:51:SER:HB2	4:D:52:PRO:HD2	1.73	0.70
1:Q:537:PRO:HB2	1:Q:540:LEU:HD21	1.73	0.70
2:G:130:TYR:CD1	2:G:136:LYS:HG3	2.27	0.70
2:G:141:ALA:HA	2:G:144:LEU:HD12	1.73	0.70
3:R:416:ARG:NH1	3:R:687:ARG:HH21	1.87	0.70
3:R:1109:ILE:O	3:R:1111:PRO:HD3	1.91	0.70
5:T:39:LEU:HD23	5:T:40:LYS:N	2.06	0.70
3:B:206:LYS:O	3:B:210:PHE:HA	1.90	0.70
6:F:16:VAL:CG2	6:F:53:GLN:HG3	2.15	0.70
1:Q:553:SER:OG	1:Q:592:ILE:HA	1.91	0.70
3:R:591:ILE:HG12	3:R:612:LYS:NZ	2.06	0.70
8:W:26:ARG:HG2	8:W:90:LEU:HB3	1.74	0.70
1:A:364:PHE:CE1	1:A:409:ARG:HD2	2.26	0.70
4:D:90:GLU:C	4:D:92:CYS:H	1.95	0.70
1:Q:485:ASN:HD21	3:R:1039:PHE:HE2	1.38	0.70
1:Q:507:TYR:HB2	1:Q:511:VAL:HG13	1.72	0.70
3:R:252:LEU:HD12	3:R:323:ILE:HB	1.74	0.70
4:S:66:PRO:HG2	10:Y:13:LEU:HD21	1.72	0.70
1:A:637:ARG:HD3	1:A:640:GLU:CD	2.12	0.70
3:B:193:THR:OG1	3:B:198:VAL:HA	1.91	0.70

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:480:ILE:HG22	3:B:481:ASN:N	2.06	0.70
4:D:180:VAL:CG2	4:D:190:LEU:HG	2.20	0.70
5:E:100:ASN:HD21	6:F:36:ARG:HD3	1.55	0.70
1:Q:604:GLY:C	1:Q:606:GLN:N	2.44	0.70
1:Q:742:GLN:HB2	3:R:919:MET:HE3	1.73	0.70
2:G:28:ILE:HD12	8:W:18:VAL:HG23	1.73	0.70
2:G:115:LYS:HB2	2:G:278:ARG:HG3	1.72	0.70
1:A:279:ASN:HB2	1:A:297:THR:HG21	1.74	0.70
1:A:328:PRO:HG3	1:A:457:PHE:CG	2.27	0.70
2:C:14:GLU:O	2:C:17:VAL:HG12	1.90	0.70
3:B:437:GLN:HB3	3:B:438:PRO:CD	2.21	0.70
3:B:764:LYS:NZ	3:B:772:LYS:O	2.24	0.70
3:R:932:TYR:CD2	3:R:953:LEU:HD22	2.27	0.70
3:R:1114:VAL:C	3:R:1115:LEU:HD23	2.12	0.70
3:B:763:VAL:HG23	3:B:859:ASN:OD1	1.90	0.70
3:B:1097:PHE:CE2	3:B:1101:ILE:HD11	2.27	0.70
11:P:10:TRP:O	11:P:11:LYS:HB2	1.92	0.70
1:Q:528:ALA:O	1:Q:530:VAL:HG12	1.91	0.70
3:R:203:GLU:OE1	3:R:203:GLU:HA	1.91	0.70
3:R:482:GLU:O	3:R:484:ILE:N	2.25	0.70
3:R:764:LYS:HD3	3:R:815:SER:HA	1.74	0.70
3:R:852:ILE:HG23	3:R:862:VAL:HG22	1.74	0.70
5:T:15:PRO:HB2	8:W:45:MET:O	1.91	0.70
1:A:6:ILE:HG13	3:B:1091:VAL:HG21	1.74	0.70
1:A:252:SER:O	1:A:257:ALA:HB2	1.92	0.70
3:B:116:ILE:HG23	3:B:361:PHE:CE1	2.27	0.70
3:B:518:SER:HB3	3:B:564:ASN:ND2	2.07	0.70
3:B:591:ILE:HG12	3:B:612:LYS:NZ	2.06	0.70
3:B:814:VAL:HG11	3:B:832:LYS:HB3	1.74	0.70
3:B:932:TYR:CD2	3:B:953:LEU:HD22	2.26	0.70
5:E:17:GLU:HG2	5:E:20:LYS:NZ	2.06	0.70
1:Q:279:ASN:HB2	1:Q:297:THR:CG2	2.22	0.70
1:Q:551:VAL:HG13	1:Q:552:ILE:N	2.06	0.70
1:Q:841:LEU:HD11	2:G:339:ASN:HB3	1.74	0.70
1:A:644:PHE:HA	1:A:724:PHE:HE2	1.57	0.70
1:A:728:MET:O	1:A:733:ALA:HB3	1.91	0.70
1:A:866:VAL:HG12	1:A:869:ASN:N	2.03	0.70
3:B:416:ARG:NH1	3:B:687:ARG:HH21	1.87	0.70
3:B:430:ILE:HG12	3:B:467:VAL:HG23	1.73	0.70
3:B:723:ILE:HD12	10:N:43:TYR:HE1	1.57	0.70
5:E:126:ILE:HD11	5:E:137:GLN:HG2	1.72	0.70

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:H:12:ARG:HH12	7:H:55:ILE:HB	1.57	0.70
7:H:65:ILE:HD12	7:H:65:ILE:H	1.57	0.70
1:Q:412:ILE:HD12	1:Q:415:ASP:HB2	1.72	0.70
1:Q:458:ASP:HA	3:R:886:GLY:HA2	1.73	0.70
2:G:69:ALA:CB	2:G:381:LEU:HD22	2.20	0.70
3:R:116:ILE:HD12	3:R:361:PHE:CZ	2.27	0.70
4:S:34:LEU:HA	4:S:150:GLY:HA3	1.74	0.70
7:V:12:ARG:HH12	7:V:55:ILE:HB	1.57	0.70
1:A:756:ARG:NH2	1:A:776:PRO:HA	2.07	0.70
3:B:59:ARG:HH22	3:B:107:ILE:HD12	1.57	0.70
4:D:6:LEU:HD13	4:D:16:VAL:HG21	1.73	0.70
4:D:18:GLU:CD	4:D:225:LYS:HD2	2.12	0.70
1:Q:346:THR:HG21	3:R:1003:ALA:HB1	1.72	0.70
1:Q:644:PHE:HA	1:Q:724:PHE:HE2	1.57	0.70
1:Q:737:VAL:HG23	1:Q:738:LEU:HD22	1.72	0.70
1:Q:828:SER:HB2	2:G:72:ILE:CD1	2.21	0.70
3:R:52:GLU:HG3	3:R:56:LEU:HD23	1.74	0.70
3:R:81:SER:HB3	3:R:84:GLU:HG3	1.73	0.70
3:R:210:PHE:HZ	3:R:323:ILE:HG22	1.56	0.70
3:R:522:LEU:O	3:R:525:ARG:HB3	1.92	0.70
3:R:590:THR:HA	3:R:593:ASP:OD2	1.90	0.70
8:W:79:ARG:HH11	8:W:79:ARG:HG3	1.57	0.70
1:A:253:ILE:HG13	1:A:262:ILE:HD11	1.73	0.69
1:A:647:ARG:HH11	3:B:965:ASP:CB	2.03	0.69
2:C:274:THR:HG22	2:C:276:ASN:H	1.56	0.69
3:B:683:ASN:O	3:B:685:GLN:N	2.25	0.69
6:F:12:ILE:HG22	6:F:13:PRO:HD2	1.74	0.69
1:Q:518:LYS:CE	1:Q:544:GLU:HB2	2.22	0.69
1:Q:637:ARG:HD3	1:Q:640:GLU:CD	2.12	0.69
2:G:392:PRO:HG3	5:T:68:HIS:CE1	2.27	0.69
3:R:702:LEU:HB3	10:Y:47:ARG:NH2	2.07	0.69
1:A:653:LEU:CD1	1:A:745:ALA:HB2	2.21	0.69
1:A:841:LEU:O	1:A:843:GLY:N	2.25	0.69
3:B:63:ILE:HD12	3:B:63:ILE:N	2.07	0.69
3:B:1114:VAL:C	3:B:1115:LEU:HD23	2.12	0.69
10:N:19:GLN:HA	10:N:22:ILE:HD11	1.73	0.69
1:Q:525:LEU:C	1:Q:527:VAL:H	1.96	0.69
3:R:88:ARG:HD3	3:R:853:THR:CG2	2.15	0.69
4:S:40:ALA:HB3	4:S:156:PHE:CE2	2.25	0.69
8:W:34:ARG:O	8:W:37:SER:HB2	1.92	0.69
4:D:34:LEU:HA	4:D:150:GLY:HA3	1.75	0.69

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:31:ARG:C	5:E:33:GLN:H	1.95	0.69
1:Q:238:LYS:NZ	1:Q:275:THR:O	2.24	0.69
1:Q:575:CYS:SG	1:Q:580:CYS:CB	2.77	0.69
2:G:344:ARG:HB2	2:G:344:ARG:NH1	2.07	0.69
3:R:904:VAL:CG2	10:Y:42:ARG:HG2	2.22	0.69
3:R:1014:ARG:HG2	3:R:1014:ARG:NH1	2.04	0.69
8:W:28:THR:OG1	8:W:31:GLU:HG3	1.92	0.69
1:A:553:SER:OG	1:A:592:ILE:HA	1.92	0.69
1:A:737:VAL:HG23	1:A:738:LEU:HD22	1.75	0.69
2:C:368:GLY:HA3	2:C:371:GLU:OE1	1.92	0.69
3:B:662:GLN:HG2	3:B:664:PRO:HD2	1.74	0.69
3:B:890:MET:HE2	3:B:891:LEU:N	2.03	0.69
1:Q:704:LEU:HD22	1:Q:781:PHE:HE1	1.56	0.69
3:R:64:ARG:H	3:R:97:TRP:HB2	1.56	0.69
5:T:39:LEU:HD23	5:T:41:ASP:H	1.56	0.69
5:T:53:THR:O	5:T:70:VAL:HG13	1.93	0.69
1:A:491:TYR:HB2	1:A:607:GLN:HE22	1.57	0.69
2:C:141:ALA:HA	2:C:144:LEU:HD12	1.75	0.69
3:B:698:PRO:HB3	3:B:717:PRO:HG2	1.74	0.69
1:Q:203:ARG:NH1	1:Q:206:TRP:HB2	2.07	0.69
1:Q:324:THR:HG21	1:Q:441:LEU:O	1.92	0.69
3:R:360:ALA:HB2	3:R:393:ARG:NH1	2.08	0.69
7:V:62:ILE:HD13	7:V:62:ILE:H	1.57	0.69
1:A:458:ASP:HA	3:B:886:GLY:HA2	1.74	0.69
3:B:59:ARG:HH22	3:B:107:ILE:CB	2.06	0.69
8:K:39:ARG:NH2	8:K:50:LEU:HD13	2.06	0.69
10:N:22:ILE:HD13	10:N:22:ILE:N	2.08	0.69
3:R:764:LYS:HZ1	3:R:772:LYS:C	1.94	0.69
3:R:873:THR:CG2	3:R:874:ILE:N	2.55	0.69
4:S:175:ASN:HA	4:S:195:LEU:HD21	1.72	0.69
1:A:337:VAL:HG23	1:A:433:HIS:CB	2.23	0.69
3:B:522:LEU:O	3:B:525:ARG:HB3	1.93	0.69
3:B:851:LEU:HG	11:P:35:PHE:CD2	2.26	0.69
3:B:934:ALA:O	10:N:46:ARG:HD3	1.92	0.69
7:H:23:LEU:HD12	7:H:62:ILE:HG12	1.72	0.69
1:Q:262:ILE:HG12	1:Q:266:TRP:HE1	1.56	0.69
1:Q:532:ILE:HD11	9:X:56:LYS:HD3	1.72	0.69
3:R:458:THR:HG23	3:R:467:VAL:O	1.92	0.69
3:R:971:TYR:CZ	4:S:165:ARG:HA	2.28	0.69
4:S:90:GLU:C	4:S:92:CYS:H	1.96	0.69
10:Y:19:GLN:HA	10:Y:22:ILE:HD11	1.74	0.69

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:324:THR:HG21	1:A:441:LEU:O	1.92	0.69
3:B:38:LYS:HG3	3:B:39:LEU:N	2.06	0.69
3:B:967:THR:HB	3:B:982:ARG:HG2	1.74	0.69
4:D:34:LEU:HD22	4:D:151:LYS:HB2	1.74	0.69
4:D:191:LYS:CB	4:D:194:LYS:HD2	2.21	0.69
7:H:9:ILE:O	7:H:9:ILE:HG22	1.93	0.69
8:K:28:THR:OG1	8:K:31:GLU:HG3	1.93	0.69
8:K:45:MET:HA	8:K:45:MET:CE	2.23	0.69
1:Q:253:ILE:HG13	1:Q:262:ILE:HD11	1.75	0.69
1:Q:483:HIS:CD2	1:Q:625:LYS:HD2	2.28	0.69
3:R:427:ARG:NH1	3:R:650:ILE:HD12	2.08	0.69
3:R:518:SER:HB3	3:R:564:ASN:ND2	2.07	0.69
3:R:688:THR:OG1	3:R:863:LYS:HD3	1.92	0.69
4:S:250:ILE:HA	4:S:253:ILE:CG2	2.23	0.69
10:Y:3:ILE:HD11	10:Y:18:TRP:CE3	2.27	0.69
1:A:313:LEU:HD21	3:B:1100:LEU:HD22	1.75	0.69
1:A:464:LEU:HD13	1:A:465:HIS:N	2.08	0.69
2:C:107:LEU:O	2:C:110:ILE:HG22	1.93	0.69
2:C:310:ILE:H	2:C:310:ILE:CD1	2.01	0.69
3:B:707:ALA:O	3:B:711:ILE:HG13	1.92	0.69
3:B:943:THR:HG22	3:B:944:PRO:CD	2.23	0.69
3:B:1119:VAL:HG21	6:F:4:VAL:HG11	1.74	0.69
9:L:62:SER:O	9:L:63:ILE:HD13	1.92	0.69
1:Q:353:ILE:HG13	1:Q:361:LEU:HD23	1.73	0.69
1:Q:501:ASP:OD2	3:R:913:HIS:HD2	1.75	0.69
3:R:1057:MET:O	3:R:1058:ILE:HD13	1.93	0.69
1:A:58:CYS:SG	1:A:59:PRO:CD	2.80	0.69
3:B:164:GLN:HG2	3:B:349:LEU:HD21	1.75	0.69
3:B:672:MET:HG2	3:B:993:LEU:HD21	1.74	0.69
4:D:67:PHE:HD2	4:D:121:VAL:HG12	1.58	0.69
1:Q:376:ASN:O	1:Q:377:TYR:CB	2.40	0.69
3:R:700:ARG:N	10:Y:51:SER:O	2.26	0.69
3:R:1050:LEU:HD23	3:R:1051:ASP:N	2.06	0.69
1:A:27:ILE:HG23	1:A:45:MET:HG2	1.73	0.68
1:A:525:LEU:C	1:A:527:VAL:H	1.96	0.68
1:A:765:THR:HG21	1:A:797:PHE:HE2	1.58	0.68
1:A:841:LEU:HD11	2:C:339:ASN:HB3	1.74	0.68
2:C:38:ASN:HD22	2:C:38:ASN:N	1.91	0.68
2:C:370:VAL:O	2:C:373:ILE:HG22	1.93	0.68
3:B:139:ILE:HD12	10:N:61:HIS:CD2	2.27	0.68
3:B:450:TRP:CZ2	3:B:641:GLU:OE1	2.46	0.68

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:238:LYS:CE	1:Q:297:THR:HB	2.22	0.68
2:G:38:ASN:HD22	2:G:38:ASN:N	1.90	0.68
3:R:480:ILE:HG22	3:R:481:ASN:N	2.08	0.68
3:R:780:VAL:HG11	3:R:831:ALA:HB3	1.75	0.68
4:S:63:ALA:HB1	4:S:155:LYS:HZ3	1.58	0.68
1:A:534:LEU:HD13	1:A:535:GLY:N	2.09	0.68
1:A:697:GLU:OE1	1:A:756:ARG:HD3	1.94	0.68
2:C:146:TYR:H	2:C:146:TYR:HD1	1.38	0.68
3:B:321:LYS:HD2	3:B:330:ARG:HE	1.58	0.68
3:B:330:ARG:HG2	3:B:330:ARG:NH1	2.07	0.68
3:R:814:VAL:HG11	3:R:832:LYS:HB3	1.74	0.68
3:R:1061:CYS:HB3	3:R:1065:GLY:N	2.09	0.68
7:V:20:HIS:O	7:V:21:GLU:HG3	1.94	0.68
10:Y:42:ARG:CG	10:Y:43:TYR:H	2.06	0.68
1:A:877:GLY:HA3	3:R:377:ARG:NH1	2.08	0.68
3:B:6:THR:HG22	3:B:7:ILE:H	1.58	0.68
3:B:52:GLU:HG3	3:B:56:LEU:HD23	1.75	0.68
3:B:364:ASP:O	3:B:367:TYR:HB3	1.93	0.68
3:B:806:GLY:O	3:B:839:THR:HB	1.93	0.68
3:B:959:ARG:HG2	3:B:959:ARG:HH11	1.57	0.68
7:H:23:LEU:HD21	7:H:64:ARG:HB2	1.76	0.68
1:Q:476:ALA:HB2	3:R:1044:LEU:HD13	1.74	0.68
1:Q:502:TYR:CE1	1:Q:636:ILE:HD11	2.28	0.68
1:Q:561:ASN:ND2	1:Q:590:ASN:H	1.90	0.68
3:R:1074:LYS:HE2	3:R:1074:LYS:HA	1.76	0.68
7:V:23:LEU:HD21	7:V:64:ARG:HB2	1.75	0.68
1:A:27:ILE:N	1:A:27:ILE:HD12	2.07	0.68
1:A:409:ARG:HB3	1:A:409:ARG:NH1	2.07	0.68
2:C:13:LEU:CD2	2:C:16:LYS:HZ2	2.06	0.68
2:C:130:TYR:CD1	2:C:136:LYS:HG3	2.28	0.68
3:B:65:ILE:HD12	3:B:65:ILE:N	2.04	0.68
3:B:482:GLU:O	3:B:484:ILE:N	2.25	0.68
3:B:725:ALA:HB2	3:B:906:PRO:HB3	1.74	0.68
3:B:762:GLU:O	3:B:764:LYS:HG3	1.93	0.68
7:H:21:GLU:O	7:H:63:ILE:HG23	1.92	0.68
1:Q:427:ARG:N	2:G:76:GLN:NE2	2.41	0.68
1:Q:708:ARG:HG3	1:Q:709:SER:N	2.06	0.68
2:G:355:LEU:HD23	3:R:1109:ILE:HD11	1.76	0.68
3:R:707:ALA:O	3:R:711:ILE:HG13	1.93	0.68
4:S:190:LEU:HA	4:S:194:LYS:O	1.92	0.68
11:Z:10:TRP:O	11:Z:11:LYS:HB2	1.93	0.68

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:837:THR:HG22	1:A:838:VAL:H	1.59	0.68
2:C:24:LEU:HD11	2:C:58:GLU:OE1	1.93	0.68
2:C:122:MET:SD	2:C:256:SER:HA	2.33	0.68
3:B:59:ARG:HH22	3:B:107:ILE:CG1	2.06	0.68
3:B:582:VAL:HG22	3:B:586:ASN:O	1.93	0.68
3:B:590:THR:HA	3:B:593:ASP:OD2	1.94	0.68
3:B:873:THR:CG2	3:B:874:ILE:N	2.57	0.68
1:Q:569:SER:HB2	1:Q:584:SER:OG	1.92	0.68
1:Q:640:GLU:OE1	3:R:974:ARG:NH1	2.26	0.68
1:Q:696:LEU:O	1:Q:700:ILE:HG12	1.94	0.68
3:R:59:ARG:HH22	3:R:107:ILE:CB	2.05	0.68
3:R:277:ALA:HB3	3:R:280:GLN:OE1	1.92	0.68
3:R:368:GLN:HE22	3:R:386:ARG:HE	1.40	0.68
1:A:827:LEU:HG	2:C:75:ALA:HB2	1.75	0.68
3:B:975:THR:OG1	3:B:977:GLN:HG2	1.94	0.68
3:B:1074:LYS:HE2	3:B:1074:LYS:HA	1.75	0.68
10:N:52:HIS:NE2	10:N:54:ASP:HB2	2.09	0.68
1:Q:27:ILE:N	1:Q:27:ILE:HD12	2.09	0.68
1:Q:612:LEU:HA	1:Q:615:LEU:HD12	1.74	0.68
1:Q:697:GLU:OE1	1:Q:756:ARG:HD3	1.93	0.68
1:Q:733:ALA:HB1	3:R:913:HIS:CE1	2.29	0.68
2:G:390:MET:CB	5:T:56:GLU:HG3	2.21	0.68
3:R:119:LEU:HD12	3:R:120:PRO:CD	2.22	0.68
3:R:708:LEU:HD13	3:R:708:LEU:O	1.94	0.68
3:R:911:ASN:ND2	3:R:913:HIS:HB2	2.07	0.68
3:R:934:ALA:HB2	10:Y:47:ARG:HD3	1.75	0.68
9:X:15:LEU:HB3	9:X:55:VAL:HG23	1.76	0.68
9:X:40:PHE:HB3	9:X:58:LEU:HB3	1.74	0.68
1:A:177:PRO:HG2	1:A:270:GLN:HE22	1.59	0.68
1:A:575:CYS:SG	1:A:580:CYS:CB	2.81	0.68
1:A:647:ARG:HB2	1:A:650:ASP:OD2	1.94	0.68
1:A:878:TRP:CZ3	2:C:50:LYS:HE2	2.29	0.68
2:C:301:LEU:HD12	2:C:302:ALA:N	2.08	0.68
5:E:113:ILE:HG23	5:E:114:THR:N	2.09	0.68
5:E:116:ASP:CG	5:E:117:THR:N	2.47	0.68
7:H:24:ASN:O	7:H:26:ASP:N	2.27	0.68
1:Q:4:LYS:HZ2	3:R:1115:LEU:HB3	1.57	0.68
1:Q:57:LYS:HB3	1:Q:62:GLY:HA2	1.76	0.68
1:Q:313:LEU:HD21	3:R:1100:LEU:HD22	1.74	0.68
2:G:28:ILE:HD13	8:W:14:HIS:CB	2.23	0.68
2:G:301:LEU:HA	2:G:304:GLN:HG3	1.76	0.68

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:393:ILE:CG2	2:G:395:ARG:HH21	2.07	0.68
8:W:32:ILE:O	8:W:35:VAL:HG22	1.94	0.68
1:A:506:ALA:HA	1:A:635:PHE:HE2	1.59	0.68
1:A:506:ALA:HA	1:A:635:PHE:CE2	2.28	0.68
1:A:864:LYS:HG3	2:C:32:LEU:HD11	1.76	0.68
3:B:899:TYR:CE1	3:B:971:TYR:HB2	2.29	0.68
5:E:4:LEU:HD21	5:E:73:ASP:HB3	1.76	0.68
1:Q:27:ILE:HG23	1:Q:45:MET:HG2	1.75	0.68
1:Q:350:PRO:HD3	1:Q:468:GLN:HE22	1.58	0.68
1:Q:512:LYS:HG3	1:Q:583:ASP:OD2	1.93	0.68
1:Q:728:MET:HE1	3:R:913:HIS:HA	1.75	0.68
4:S:16:VAL:O	4:S:16:VAL:HG12	1.93	0.68
9:X:15:LEU:HB3	9:X:55:VAL:CG2	2.24	0.68
2:C:269:VAL:HA	2:C:272:VAL:CG2	2.24	0.68
3:B:163:THR:HG23	3:B:428:ARG:O	1.94	0.68
1:Q:308:ARG:HH21	3:R:1099:LEU:CD1	1.97	0.68
1:Q:481:LEU:HD23	1:Q:482:VAL:H	1.58	0.68
1:Q:507:TYR:HB3	1:Q:597:VAL:HG13	1.76	0.68
3:R:63:ILE:HD12	3:R:63:ILE:N	2.08	0.68
3:R:806:GLY:O	3:R:839:THR:HB	1.93	0.68
3:R:1004:ARG:NH2	3:R:1007:GLY:H	1.92	0.68
7:V:34:GLU:HG3	8:W:84:ASN:OD1	1.94	0.68
8:W:82:LEU:HB2	8:W:83:PRO:HD2	1.76	0.68
10:Y:52:HIS:NE2	10:Y:54:ASP:HB2	2.09	0.68
2:C:11:PRO:O	2:C:14:GLU:HG3	1.94	0.68
3:B:244:LEU:C	3:B:246:PRO:HD3	2.14	0.68
3:B:427:ARG:HH11	3:B:650:ILE:HD12	1.59	0.68
3:B:602:ILE:CG2	3:B:603:THR:H	2.06	0.68
5:E:3:LYS:HA	6:F:12:ILE:HG13	1.75	0.68
5:E:126:ILE:HG23	5:E:136:ILE:H	1.59	0.68
1:Q:252:SER:O	1:Q:257:ALA:HB2	1.92	0.68
1:Q:878:TRP:CZ3	2:G:50:LYS:HE2	2.29	0.68
2:G:310:ILE:HG22	2:G:314:LEU:CD2	2.24	0.68
3:R:317:TYR:CD2	3:R:526:LEU:HD13	2.29	0.68
3:R:453:MET:HE3	3:R:470:LEU:HA	1.75	0.68
3:R:900:THR:HG21	3:R:968:GLU:OE2	1.93	0.68
7:V:24:ASN:O	7:V:26:ASP:N	2.27	0.68
8:W:53:ILE:H	8:W:53:ILE:CD1	2.06	0.68
10:Y:22:ILE:HD13	10:Y:22:ILE:N	2.08	0.68
1:A:387:ASP:CG	1:A:388:LEU:H	1.97	0.67
1:A:567:ASN:HB2	1:A:601:LYS:HG2	1.74	0.67

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:360:ALA:HB2	3:B:393:ARG:NH1	2.08	0.67
3:B:427:ARG:NH1	3:B:650:ILE:HD12	2.09	0.67
3:B:530:TYR:OH	3:B:536:LEU:HB2	1.94	0.67
3:B:696:HIS:ND1	4:D:57:ILE:HD11	2.09	0.67
7:H:64:ARG:NH2	8:K:12:ASP:OD1	2.26	0.67
8:K:23:TRP:CE3	8:K:23:TRP:HA	2.28	0.67
8:K:23:TRP:HA	8:K:23:TRP:HE3	1.59	0.67
1:Q:55:GLY:O	1:Q:57:LYS:N	2.27	0.67
3:R:161:ILE:HG21	3:R:346:ALA:HA	1.76	0.67
3:R:536:LEU:HD13	3:R:536:LEU:C	2.15	0.67
3:R:971:TYR:CZ	3:R:978:LYS:HB3	2.30	0.67
4:S:12:ARG:HA	4:S:230:ILE:O	1.94	0.67
5:T:31:ARG:C	5:T:33:GLN:H	1.94	0.67
5:T:179:LYS:HE2	6:U:81:ASP:CB	2.21	0.67
1:A:47:PRO:HG2	1:A:48:ARG:H	1.59	0.67
1:A:262:ILE:HG12	1:A:266:TRP:HE1	1.58	0.67
1:A:427:ARG:N	2:C:76:GLN:NE2	2.42	0.67
2:C:115:LYS:HE2	2:C:279:GLU:HB2	1.76	0.67
4:D:235:SER:O	4:D:236:LEU:HD12	1.94	0.67
8:K:79:ARG:HG3	8:K:79:ARG:HH11	1.59	0.67
10:N:43:TYR:HA	10:N:46:ARG:HB3	1.75	0.67
1:Q:876:VAL:O	1:Q:878:TRP:N	2.27	0.67
2:G:277:ILE:C	2:G:279:GLU:H	1.98	0.67
2:G:393:ILE:HG22	2:G:394:LEU:H	1.58	0.67
3:R:1069:TRP:HB3	3:R:1079:CYS:HA	1.77	0.67
8:W:82:LEU:H	8:W:82:LEU:HD23	1.58	0.67
10:Y:35:LEU:CD2	10:Y:40:VAL:HG21	2.22	0.67
2:C:40:GLU:O	2:C:45:ARG:HG2	1.93	0.67
3:B:40:GLN:HE22	3:B:62:LYS:HA	1.59	0.67
3:B:480:ILE:HG22	3:B:481:ASN:H	1.58	0.67
10:N:42:ARG:CG	10:N:43:TYR:H	2.07	0.67
1:Q:203:ARG:CZ	1:Q:206:TRP:HB2	2.23	0.67
1:Q:551:VAL:HG13	1:Q:552:ILE:H	1.60	0.67
1:Q:765:THR:HG21	1:Q:797:PHE:HE2	1.58	0.67
3:R:450:TRP:CZ2	3:R:641:GLU:OE1	2.45	0.67
1:A:872:PHE:CG	1:A:876:VAL:HG21	2.29	0.67
3:B:119:LEU:HD12	3:B:120:PRO:CD	2.24	0.67
3:B:189:ILE:HB	3:B:203:GLU:CB	2.24	0.67
3:B:690:THR:HG22	3:B:691:ARG:HG3	1.76	0.67
3:B:739:ILE:CG2	3:B:909:ILE:HB	2.23	0.67
4:D:217:ILE:HD12	4:D:217:ILE:N	2.10	0.67

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:L:40:PHE:HB3	9:L:58:LEU:HB3	1.76	0.67
1:Q:324:THR:HG22	1:Q:325:VAL:N	2.08	0.67
1:Q:331:ASN:O	1:Q:332:ILE:CB	2.42	0.67
3:R:727:MET:HE2	3:R:983:ILE:HG21	1.77	0.67
3:R:1097:PHE:CE2	3:R:1101:ILE:HD11	2.30	0.67
5:T:83:GLU:O	5:T:145:ARG:HA	1.94	0.67
5:T:110:ILE:O	5:T:113:ILE:HG22	1.94	0.67
1:A:324:THR:HG22	1:A:325:VAL:N	2.10	0.67
3:B:946:TYR:CD2	3:B:947:LYS:N	2.49	0.67
8:K:71:ARG:HH11	8:K:71:ARG:HB2	1.59	0.67
3:R:330:ARG:HG2	3:R:330:ARG:HH11	1.59	0.67
3:R:433:LEU:HB2	3:R:435:ARG:CZ	2.25	0.67
3:R:959:ARG:HG2	3:R:959:ARG:HH11	1.59	0.67
3:R:972:ASP:OD2	3:R:974:ARG:HG2	1.95	0.67
6:U:30:SER:HG	6:U:38:TYR:HE1	1.39	0.67
2:C:104:LEU:HB3	2:C:105:PRO:CD	2.22	0.67
3:B:536:LEU:HD13	3:B:536:LEU:C	2.14	0.67
3:B:544:ARG:HH11	3:B:544:ARG:HG3	1.58	0.67
3:B:1057:MET:O	3:B:1058:ILE:HD13	1.95	0.67
4:D:64:LEU:HD22	10:N:6:ARG:HD3	1.76	0.67
5:E:83:GLU:O	5:E:145:ARG:HA	1.95	0.67
5:T:126:ILE:HD11	5:T:137:GLN:HG2	1.76	0.67
8:W:60:ASP:OD2	8:W:60:ASP:N	2.27	0.67
1:Q:15:SER:HA	1:Q:203:ARG:NH2	2.09	0.67
1:Q:238:LYS:HD3	1:Q:276:TYR:HA	1.76	0.67
1:Q:402:ALA:O	1:Q:404:GLY:N	2.28	0.67
2:G:388:LEU:HD11	8:W:34:ARG:HG3	1.76	0.67
3:R:683:ASN:O	3:R:685:GLN:N	2.28	0.67
3:R:690:THR:HG22	3:R:691:ARG:HG3	1.77	0.67
5:T:126:ILE:HG23	5:T:136:ILE:H	1.59	0.67
7:V:38:ARG:HH11	7:V:38:ARG:HG2	1.60	0.67
1:A:203:ARG:NH1	1:A:206:TRP:HB2	2.08	0.67
1:A:490:ARG:HG3	2:C:77:SER:HB3	1.77	0.67
3:B:157:SER:O	3:B:158:GLU:HB2	1.95	0.67
3:B:1009:VAL:HG12	3:B:1016:PRO:HA	1.77	0.67
3:B:1069:TRP:HB3	3:B:1079:CYS:HA	1.74	0.67
3:B:1079:CYS:SG	3:B:1080:PRO:HD2	2.34	0.67
4:D:250:ILE:HA	4:D:253:ILE:CG2	2.25	0.67
1:Q:490:ARG:HG3	2:G:77:SER:HB3	1.76	0.67
1:Q:567:ASN:HB3	1:Q:599:ASP:OD2	1.95	0.67
3:R:244:LEU:C	3:R:246:PRO:HD3	2.15	0.67

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:373:LYS:CE	3:R:375:ARG:HD2	2.25	0.67
3:R:910:LEU:HD23	3:R:911:ASN:N	2.10	0.67
3:R:967:THR:HB	3:R:982:ARG:HG2	1.77	0.67
4:S:51:SER:HA	4:S:137:GLN:NE2	2.10	0.67
5:T:4:LEU:HD21	5:T:73:ASP:HB3	1.76	0.67
6:U:31:SER:HA	6:U:35:GLN:HE21	1.58	0.67
8:W:45:MET:HE2	8:W:45:MET:HA	1.76	0.67
1:A:47:PRO:HG2	1:A:48:ARG:HD3	1.75	0.67
3:B:581:ILE:HD11	3:B:614:GLU:CB	2.19	0.67
5:E:110:ILE:O	5:E:113:ILE:HG22	1.95	0.67
6:F:79:THR:O	6:F:83:VAL:HG23	1.95	0.67
1:Q:534:LEU:HD23	9:X:39:SER:OG	1.95	0.67
1:Q:567:ASN:HB2	1:Q:601:LYS:HG2	1.75	0.67
2:G:63:LEU:HD21	8:W:23:TRP:CZ3	2.30	0.67
2:G:146:TYR:HD1	2:G:146:TYR:H	1.38	0.67
3:R:200:VAL:O	3:R:200:VAL:HG13	1.95	0.67
1:A:376:ASN:O	1:A:377:TYR:CB	2.41	0.67
3:B:754:PHE:HE2	3:B:756:ARG:HB2	1.60	0.67
3:B:853:THR:HG23	11:P:32:LYS:O	1.94	0.67
3:B:971:TYR:CE2	4:D:165:ARG:HA	2.30	0.67
1:Q:328:PRO:HG3	1:Q:457:PHE:CD1	2.30	0.67
1:Q:490:ARG:HA	2:G:312:HIS:HE1	1.58	0.67
1:Q:721:PRO:HA	1:Q:726:TYR:CD1	2.30	0.67
1:Q:728:MET:O	1:Q:733:ALA:HB3	1.95	0.67
3:R:189:ILE:HB	3:R:203:GLU:CB	2.24	0.67
4:S:205:LEU:HA	4:S:221:PHE:HZ	1.60	0.67
1:A:245:ILE:HD13	1:A:268:LEU:HD13	1.75	0.66
1:A:390:TYR:HD1	1:A:391:VAL:HG23	1.60	0.66
1:A:409:ARG:HB3	1:A:409:ARG:HH11	1.59	0.66
1:A:446:ASN:C	1:A:446:ASN:ND2	2.48	0.66
1:A:648:LEU:HD23	1:A:648:LEU:O	1.95	0.66
1:A:749:GLN:H	1:A:781:PHE:CA	2.06	0.66
1:A:842:TYR:HB3	1:A:844:GLU:HG3	1.77	0.66
2:C:126:LEU:HD11	2:C:249:TYR:HB2	1.77	0.66
3:B:1014:ARG:HG2	3:B:1014:ARG:NH1	2.08	0.66
7:H:20:HIS:O	7:H:21:GLU:HG3	1.94	0.66
7:H:29:TYR:HA	7:H:32:LEU:CD1	2.07	0.66
1:Q:199:PRO:HA	1:Q:202:SER:O	1.94	0.66
1:Q:558:LYS:H	1:Q:558:LYS:HD3	1.59	0.66
1:Q:645:THR:OG1	1:Q:646:MET:N	2.29	0.66
2:G:28:ILE:HG21	8:W:14:HIS:HB3	1.76	0.66

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:U:79:THR:HG22	6:U:80:SER:H	1.58	0.66
1:A:337:VAL:HG23	1:A:433:HIS:HB3	1.77	0.66
1:A:346:THR:HG21	3:B:1003:ALA:HB1	1.75	0.66
1:A:604:GLY:C	1:A:606:GLN:N	2.48	0.66
6:F:52:ALA:HA	6:F:55:VAL:HG23	1.76	0.66
8:K:70:ARG:HB3	8:K:70:ARG:HH11	1.60	0.66
1:Q:193:GLU:O	1:Q:195:LEU:N	2.27	0.66
1:Q:203:ARG:HH11	1:Q:203:ARG:CG	2.09	0.66
1:Q:648:LEU:O	1:Q:648:LEU:HD23	1.94	0.66
3:R:278:ILE:HG22	3:R:279:GLY:N	2.10	0.66
1:A:490:ARG:HA	2:C:312:HIS:HE1	1.61	0.66
3:B:59:ARG:HH12	3:B:107:ILE:HD12	1.60	0.66
1:Q:308:ARG:NH2	3:R:1012:LEU:HD11	2.11	0.66
2:G:369:VAL:O	2:G:373:ILE:HB	1.95	0.66
3:R:591:ILE:HD11	3:R:612:LYS:HZ3	1.60	0.66
3:R:1069:TRP:HE1	3:R:1088:LEU:CB	2.09	0.66
4:S:67:PHE:HD2	4:S:121:VAL:HG12	1.59	0.66
1:A:199:PRO:HA	1:A:202:SER:O	1.95	0.66
1:A:480:MET:HG2	3:B:1039:PHE:CE1	2.31	0.66
1:A:481:LEU:CD2	1:A:482:VAL:H	2.07	0.66
1:A:522:GLN:HG2	9:L:40:PHE:CE1	2.30	0.66
2:C:115:LYS:HB2	2:C:278:ARG:HG3	1.78	0.66
3:B:870:ARG:CZ	3:B:996:MET:SD	2.83	0.66
4:D:12:ARG:HA	4:D:230:ILE:O	1.95	0.66
5:E:179:LYS:HZ1	6:F:82:GLU:H	1.43	0.66
8:K:61:VAL:HG12	8:K:62:ILE:H	1.60	0.66
1:Q:489:PRO:HB3	1:Q:858:MET:HG3	1.75	0.66
3:R:934:ALA:O	10:Y:46:ARG:HD3	1.96	0.66
3:R:943:THR:HG22	3:R:944:PRO:CD	2.25	0.66
5:T:113:ILE:HG23	5:T:114:THR:N	2.08	0.66
1:A:68:CYS:SG	1:A:71:HIS:NE2	2.67	0.66
1:A:238:LYS:CE	1:A:297:THR:HB	2.25	0.66
2:C:122:MET:HB2	2:C:253:THR:OG1	1.96	0.66
2:C:277:ILE:C	2:C:279:GLU:H	1.97	0.66
2:C:390:MET:HG3	5:E:57:GLY:N	2.10	0.66
6:F:53:GLN:O	6:F:57:GLU:HG3	1.94	0.66
3:R:838:VAL:HG12	3:R:839:THR:H	1.60	0.66
3:R:861:LEU:HD12	3:R:862:VAL:H	1.61	0.66
3:R:1107:MET:C	3:R:1108:ILE:HD12	2.16	0.66
1:A:349:VAL:HG21	1:A:415:ASP:OD2	1.96	0.66
1:A:558:LYS:CG	3:R:104:GLU:HB2	2.26	0.66

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:775:SER:OG	1:A:776:PRO:HD2	1.94	0.66
3:B:70:VAL:HG22	3:B:78:ARG:O	1.96	0.66
3:B:897:MET:SD	3:B:906:PRO:HG2	2.36	0.66
3:B:978:LYS:HZ1	4:D:205:LEU:HD13	1.60	0.66
10:N:30:ASN:O	10:N:34:VAL:HG23	1.95	0.66
1:Q:387:ASP:CG	1:Q:388:LEU:H	1.99	0.66
1:Q:765:THR:HG22	1:Q:766:LEU:CD2	2.24	0.66
1:Q:872:PHE:CG	1:Q:876:VAL:HG21	2.31	0.66
1:Q:874:ARG:NE	2:G:53:ASP:HB3	2.03	0.66
3:R:164:GLN:HG2	3:R:349:LEU:HD21	1.77	0.66
3:R:197:ARG:HB2	3:R:199:PRO:HD3	1.76	0.66
3:R:253:PHE:N	3:R:254:PRO:HD2	2.11	0.66
3:R:591:ILE:CG1	3:R:612:LYS:NZ	2.58	0.66
3:R:1033:ARG:HH11	3:R:1033:ARG:CG	2.08	0.66
8:W:45:MET:HA	8:W:45:MET:CE	2.25	0.66
1:A:525:LEU:HD11	1:A:530:VAL:HG11	1.78	0.66
3:B:48:GLU:HG2	3:B:58:VAL:HB	1.77	0.66
3:B:588:LEU:HD22	3:B:612:LYS:HG2	1.78	0.66
3:B:853:THR:HG22	3:B:854:GLU:N	2.06	0.66
1:Q:345:LYS:HA	1:Q:410:HIS:CD2	2.30	0.66
1:Q:486:ILE:HD11	1:Q:628:MET:HE2	1.78	0.66
1:Q:752:VAL:C	1:Q:754:GLY:H	2.00	0.66
2:G:54:LEU:O	2:G:58:GLU:HG3	1.96	0.66
2:G:269:VAL:HA	2:G:272:VAL:CG2	2.26	0.66
1:A:203:ARG:CZ	1:A:206:TRP:HB2	2.26	0.66
3:B:277:ALA:HB3	3:B:280:GLN:OE1	1.94	0.66
3:B:545:ARG:NE	3:B:581:ILE:HD13	2.10	0.66
4:D:205:LEU:HA	4:D:221:PHE:HZ	1.59	0.66
1:Q:390:TYR:HD1	1:Q:391:VAL:HG23	1.61	0.66
1:Q:531:LYS:O	1:Q:532:ILE:HB	1.96	0.66
3:R:153:ILE:CG2	3:R:156:GLY:HA2	2.26	0.66
3:R:1081:ILE:HG21	3:R:1085:LYS:NZ	2.10	0.66
4:S:108:MET:HE1	10:Y:2:LEU:HD21	1.77	0.66
7:V:18:PRO:HB2	7:V:67:ARG:HA	1.78	0.66
8:W:53:ILE:HD12	8:W:53:ILE:N	2.08	0.66
1:A:438:LEU:O	1:A:438:LEU:HD23	1.95	0.66
1:A:561:ASN:HA	1:A:588:ILE:O	1.96	0.66
1:A:721:PRO:HA	1:A:726:TYR:CD1	2.31	0.66
1:A:765:THR:HG22	1:A:766:LEU:CD2	2.25	0.66
3:B:200:VAL:O	3:B:200:VAL:HG13	1.96	0.66
3:B:930:GLY:HA2	10:N:47:ARG:HH22	1.60	0.66

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:191:LYS:H	4:D:194:LYS:HB2	1.60	0.66
5:E:126:ILE:CD1	5:E:137:GLN:HG2	2.26	0.66
6:F:79:THR:HG22	6:F:80:SER:H	1.61	0.66
1:Q:15:SER:O	1:Q:19:ILE:HG13	1.95	0.66
1:Q:316:LYS:HE2	3:R:1094:SER:HG	1.59	0.66
1:Q:364:PHE:CE1	1:Q:409:ARG:HD2	2.31	0.66
3:R:116:ILE:HG23	3:R:361:PHE:CE1	2.31	0.66
3:R:530:TYR:OH	3:R:536:LEU:HB2	1.95	0.66
3:R:765:TYR:CG	3:R:766:PRO:HD2	2.31	0.66
3:R:946:TYR:CD2	3:R:947:LYS:N	2.51	0.66
4:S:18:GLU:CD	4:S:225:LYS:HD2	2.17	0.66
1:A:57:LYS:HB3	1:A:62:GLY:HA2	1.78	0.66
1:A:876:VAL:O	1:A:878:TRP:N	2.29	0.66
3:B:473:MET:SD	3:B:474:ALA:N	2.69	0.66
3:B:488:THR:HG21	3:B:549:ILE:HD11	1.77	0.66
4:D:98:ILE:CG1	4:D:114:ILE:HG12	2.24	0.66
6:F:31:SER:HA	6:F:35:GLN:HE21	1.60	0.66
7:H:62:ILE:H	7:H:62:ILE:HD13	1.61	0.66
1:Q:807:VAL:CG1	3:R:443:ARG:HH11	2.09	0.66
2:G:11:PRO:O	2:G:14:GLU:HG3	1.96	0.66
3:R:70:VAL:HG22	3:R:78:ARG:O	1.96	0.66
3:R:222:PRO:HD2	3:R:225:ILE:HD12	1.77	0.66
7:V:13:ILE:HG23	7:V:14:HIS:H	1.61	0.66
1:A:446:ASN:HD22	1:A:447:LEU:N	1.93	0.65
1:A:558:LYS:H	1:A:558:LYS:HD3	1.60	0.65
1:A:861:ALA:O	1:A:862:HIS:CD2	2.49	0.65
2:C:63:LEU:O	2:C:63:LEU:HD23	1.97	0.65
3:B:67:LYS:HB3	3:B:68:PRO:HD2	1.78	0.65
3:B:479:GLY:HA2	3:B:552:GLU:CB	2.23	0.65
3:B:855:THR:C	3:B:857:GLU:N	2.48	0.65
4:D:77:ARG:N	4:D:91:LYS:O	2.28	0.65
1:Q:234:ASP:OD2	1:Q:296:ARG:HD3	1.96	0.65
1:Q:650:ASP:HB3	1:Q:723:ASN:HD21	1.59	0.65
1:Q:831:ARG:HH21	2:G:385:MET:HB2	1.61	0.65
2:G:392:PRO:HB3	5:T:22:LEU:HD21	1.77	0.65
3:R:600:GLY:O	3:R:602:ILE:HG13	1.96	0.65
3:R:727:MET:HE2	3:R:983:ILE:HG13	1.79	0.65
3:R:1099:LEU:HB3	3:R:1103:GLU:OE1	1.96	0.65
1:A:736:SER:HB3	1:A:739:ASN:OD1	1.97	0.65
1:A:867:ASP:OD1	2:C:32:LEU:HB3	1.96	0.65
2:C:393:ILE:HG22	2:C:394:LEU:H	1.60	0.65

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:343:LEU:HD12	3:B:343:LEU:N	2.10	0.65
3:B:417:THR:O	3:B:418:ASN:HB3	1.95	0.65
3:B:792:LEU:HD11	3:B:809:VAL:CG1	2.25	0.65
3:B:838:VAL:HG12	3:B:839:THR:H	1.61	0.65
1:Q:308:ARG:O	1:Q:313:LEU:HB2	1.96	0.65
1:Q:763:THR:C	1:Q:764:ARG:HG2	2.15	0.65
2:G:321:THR:HG22	7:V:79:ARG:HH12	1.62	0.65
3:R:662:GLN:HG2	3:R:664:PRO:HD2	1.78	0.65
3:R:1085:LYS:HE3	3:R:1086:SER:HB3	1.76	0.65
2:C:329:ILE:CA	2:C:334:VAL:HG12	2.24	0.65
3:B:89:ASN:HD21	3:B:863:LYS:NZ	1.94	0.65
3:B:108:GLU:O	3:B:110:GLU:N	2.29	0.65
3:B:1069:TRP:HE1	3:B:1088:LEU:CB	2.08	0.65
8:K:61:VAL:HG12	8:K:62:ILE:N	2.12	0.65
8:K:82:LEU:HB2	8:K:83:PRO:HD2	1.77	0.65
10:N:10:CYS:HB3	10:N:44:CYS:SG	2.35	0.65
1:Q:47:PRO:HG2	1:Q:48:ARG:H	1.61	0.65
2:G:288:ALA:HB2	7:V:17:VAL:HB	1.78	0.65
3:R:102:PRO:HG2	3:R:108:GLU:OE2	1.96	0.65
3:R:330:ARG:HG2	3:R:330:ARG:NH1	2.10	0.65
4:S:29:ARG:HG3	4:S:162:SER:O	1.96	0.65
1:A:483:HIS:CD2	1:A:625:LYS:HD2	2.32	0.65
1:A:501:ASP:OD2	3:B:913:HIS:HD2	1.80	0.65
1:A:877:GLY:CA	3:R:377:ARG:HH12	2.10	0.65
3:B:197:ARG:HB2	3:B:199:PRO:HD3	1.78	0.65
3:B:453:MET:HE3	3:B:470:LEU:HA	1.79	0.65
3:B:640:LEU:CD2	3:B:641:GLU:N	2.50	0.65
3:B:656:PRO:HD3	3:B:881:ARG:HH21	1.62	0.65
2:G:318:ASP:O	2:G:322:ARG:HD3	1.96	0.65
3:R:48:GLU:HG2	3:R:58:VAL:HB	1.77	0.65
3:R:235:ASP:O	3:R:239:VAL:HG23	1.96	0.65
5:T:64:GLY:N	8:W:41:LEU:CD2	2.59	0.65
6:U:52:ALA:HA	6:U:55:VAL:HG23	1.76	0.65
1:A:81:VAL:HG12	1:A:270:GLN:HG3	1.78	0.65
1:A:276:TYR:HD2	1:A:277:PHE:CD1	2.15	0.65
1:A:823:LEU:HB3	2:C:329:ILE:HD13	1.79	0.65
1:A:859:TYR:HB2	2:C:64:ILE:CG1	2.27	0.65
2:C:111:VAL:HG13	2:C:329:ILE:HD12	1.77	0.65
3:B:214:PHE:CG	3:B:215:PRO:HD2	2.31	0.65
3:B:794:ASP:OD2	11:P:18:LEU:HD11	1.95	0.65
6:F:77:PRO:CG	6:F:83:VAL:HG22	2.25	0.65

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:H:81:VAL:O	7:H:82:ILE:HG12	1.97	0.65
1:Q:90:ILE:HG23	1:Q:184:LEU:HD11	1.79	0.65
1:Q:431:MET:CE	1:Q:482:VAL:HG13	2.27	0.65
1:Q:517:THR:HG22	1:Q:518:LYS:N	2.11	0.65
1:Q:827:LEU:HG	2:G:75:ALA:HB2	1.77	0.65
3:R:600:GLY:C	3:R:602:ILE:H	2.00	0.65
3:R:628:LEU:HD23	3:R:628:LEU:N	2.09	0.65
5:T:18:PHE:CD2	8:W:47:ALA:HB1	2.32	0.65
8:W:91:SER:O	8:W:92:LEU:CB	2.43	0.65
1:A:531:LYS:O	1:A:532:ILE:HB	1.96	0.65
1:A:752:VAL:C	1:A:754:GLY:H	2.00	0.65
1:A:853:ASP:OD2	2:C:311:ARG:NH2	2.29	0.65
3:B:88:ARG:HD3	3:B:853:THR:CG2	2.15	0.65
3:B:244:LEU:HD13	3:B:500:VAL:HB	1.78	0.65
3:B:591:ILE:CG1	3:B:612:LYS:NZ	2.59	0.65
5:E:38:ILE:O	5:E:39:LEU:HB2	1.94	0.65
7:H:38:ARG:HG2	7:H:38:ARG:HH11	1.60	0.65
1:Q:6:ILE:HD13	3:R:1113:LEU:HD22	1.79	0.65
1:Q:646:MET:CE	1:Q:725:ALA:HB2	2.26	0.65
1:Q:842:TYR:HB3	1:Q:844:GLU:HG3	1.79	0.65
3:R:70:VAL:HG13	3:R:80:ILE:HD13	1.79	0.65
3:R:214:PHE:CG	3:R:215:PRO:HD2	2.32	0.65
3:R:517:TRP:HD1	3:R:531:GLN:N	1.94	0.65
3:R:812:GLY:HA2	3:R:836:SER:HB3	1.78	0.65
5:T:116:ASP:CG	5:T:117:THR:N	2.46	0.65
6:U:79:THR:O	6:U:83:VAL:HG23	1.96	0.65
7:V:9:ILE:O	7:V:9:ILE:HG22	1.95	0.65
8:W:26:ARG:HB3	8:W:27:LEU:HD12	1.79	0.65
10:Y:3:ILE:HG12	10:Y:18:TRP:CG	2.31	0.65
1:A:319:ASP:O	1:A:320:PHE:HB2	1.96	0.65
1:A:567:ASN:HB3	1:A:599:ASP:OD2	1.97	0.65
3:B:789:TYR:O	3:B:791:LEU:N	2.30	0.65
3:B:1069:TRP:NE1	3:B:1088:LEU:HD13	2.12	0.65
7:H:52:ALA:C	7:H:54:SER:H	1.99	0.65
3:R:139:ILE:HG21	10:Y:61:HIS:HD2	1.62	0.65
3:R:1054:ASP:HB2	3:R:1094:SER:HA	1.77	0.65
5:T:64:GLY:N	8:W:41:LEU:HD22	2.12	0.65
8:W:71:ARG:HB2	8:W:71:ARG:HH11	1.61	0.65
3:B:214:PHE:CD1	3:B:215:PRO:HD2	2.32	0.65
3:B:803:GLU:HB3	3:B:805:LYS:HZ1	1.59	0.65
3:B:1085:LYS:HE3	3:B:1086:SER:HB3	1.78	0.65

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:16:PRO:HG2	1:Q:17:ASP:H	1.62	0.65
1:Q:450:CYS:HB2	1:Q:451:PRO:HD3	1.78	0.65
1:Q:480:MET:HG2	3:R:1039:PHE:CE1	2.32	0.65
1:Q:647:ARG:HB2	1:Q:650:ASP:OD2	1.96	0.65
2:G:379:ILE:H	2:G:379:ILE:HD13	1.61	0.65
3:R:98:LEU:HD11	3:R:100:MET:HG3	1.79	0.65
3:R:244:LEU:HD13	3:R:500:VAL:HB	1.78	0.65
3:R:672:MET:CG	3:R:993:LEU:HD21	2.26	0.65
3:R:873:THR:CG2	3:R:874:ILE:H	2.10	0.65
1:A:8:GLY:O	3:B:1114:VAL:HG13	1.96	0.65
1:A:177:PRO:HG2	1:A:270:GLN:NE2	2.12	0.65
1:A:203:ARG:HH11	1:A:203:ARG:CG	2.10	0.65
1:A:609:GLU:HB3	1:A:614:TRP:CZ2	2.32	0.65
1:A:831:ARG:HH21	2:C:385:MET:CG	2.09	0.65
2:C:244:LYS:HA	2:C:249:TYR:HA	1.78	0.65
3:B:210:PHE:CZ	3:B:323:ILE:HG22	2.32	0.65
3:B:368:GLN:HE22	3:B:386:ARG:HE	1.42	0.65
3:B:419:TRP:CZ3	3:B:712:GLY:HA3	2.31	0.65
3:B:458:THR:HG23	3:B:467:VAL:O	1.96	0.65
3:B:895:VAL:HG11	4:D:34:LEU:HD21	1.79	0.65
1:Q:609:GLU:HB3	1:Q:614:TRP:CZ2	2.32	0.65
3:R:6:THR:HG22	3:R:7:ILE:H	1.61	0.65
5:T:86:GLU:OE1	6:U:75:ILE:HG23	1.97	0.65
1:A:728:MET:HE1	3:B:913:HIS:HA	1.78	0.65
10:N:6:ARG:HA	10:N:12:SER:O	1.96	0.65
1:Q:177:PRO:HG2	1:Q:270:GLN:HE22	1.60	0.65
1:Q:488:THR:CG2	1:Q:490:ARG:H	2.09	0.65
2:G:123:THR:OG1	2:G:273:GLU:HB3	1.97	0.65
3:R:59:ARG:HH22	3:R:107:ILE:CD1	2.10	0.65
3:R:148:PRO:HG3	3:R:422:MET:CE	2.27	0.65
4:S:258:LYS:O	4:S:261:VAL:HG22	1.97	0.65
10:Y:43:TYR:HA	10:Y:46:ARG:HB3	1.78	0.65
1:A:353:ILE:HG13	1:A:361:LEU:HD23	1.78	0.64
1:A:825:ASN:O	1:A:828:SER:HB3	1.97	0.64
3:B:153:ILE:CG2	3:B:156:GLY:HA2	2.25	0.64
2:G:244:LYS:HA	2:G:249:TYR:HA	1.79	0.64
2:G:392:PRO:HG3	5:T:68:HIS:HE1	1.63	0.64
3:R:480:ILE:HG22	3:R:481:ASN:H	1.62	0.64
3:R:851:LEU:HG	11:Z:35:PHE:CD2	2.29	0.64
5:T:17:GLU:HG2	5:T:20:LYS:NZ	2.10	0.64
1:A:16:PRO:HG2	1:A:17:ASP:H	1.63	0.64

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:339:VAL:CG2	1:A:435:VAL:HG23	2.27	0.64
3:B:282:ARG:HA	3:B:285:ARG:HD2	1.78	0.64
3:B:971:TYR:CZ	3:B:978:LYS:HB3	2.31	0.64
9:L:15:LEU:HB3	9:L:55:VAL:HG23	1.79	0.64
1:Q:245:ILE:CD1	1:Q:268:LEU:HB3	2.26	0.64
1:Q:522:GLN:OE1	9:X:40:PHE:HA	1.97	0.64
2:G:377:HIS:ND1	2:G:378:PRO:HD2	2.13	0.64
3:R:778:ALA:HA	3:R:783:TYR:CE1	2.32	0.64
3:R:946:TYR:CD1	3:R:949:PRO:HA	2.32	0.64
5:T:50:ASN:O	5:T:72:PHE:HA	1.96	0.64
1:A:176:THR:HG23	1:A:179:ASP:CB	2.26	0.64
2:C:123:THR:OG1	2:C:273:GLU:HB3	1.97	0.64
2:C:344:ARG:HB2	2:C:344:ARG:NH1	2.08	0.64
3:B:64:ARG:H	3:B:97:TRP:HB2	1.61	0.64
3:B:591:ILE:CG1	3:B:612:LYS:HZ2	2.08	0.64
3:B:624:ALA:HB1	3:B:639:HIS:HD2	1.63	0.64
3:B:663:SER:CB	3:B:664:PRO:HD3	2.27	0.64
3:B:696:HIS:HE2	3:B:753:THR:HG1	1.45	0.64
3:B:1087:ASN:O	3:B:1088:LEU:HG	1.97	0.64
8:K:32:ILE:O	8:K:35:VAL:HG22	1.96	0.64
1:Q:6:ILE:HD11	3:R:1091:VAL:HG11	1.79	0.64
1:Q:325:VAL:O	1:Q:442:THR:HB	1.97	0.64
1:Q:763:THR:HG21	1:Q:772:TYR:CD2	2.32	0.64
2:G:102:LEU:HD23	2:G:103:GLY:H	1.58	0.64
2:G:250:ILE:HG22	2:G:251:ILE:N	2.12	0.64
3:R:157:SER:O	3:R:158:GLU:HB2	1.96	0.64
3:R:545:ARG:NE	3:R:581:ILE:HD13	2.12	0.64
3:R:557:HIS:CE1	3:R:566:VAL:HG13	2.32	0.64
4:S:98:ILE:CD1	4:S:114:ILE:HG23	2.24	0.64
5:T:26:ALA:O	5:T:30:LEU:HB2	1.96	0.64
1:A:90:ILE:CD1	1:A:207:MET:HB3	2.27	0.64
1:A:245:ILE:CD1	1:A:268:LEU:HB3	2.27	0.64
1:A:839:ARG:HA	1:A:844:GLU:O	1.97	0.64
3:B:934:ALA:HB2	10:N:47:ARG:HD3	1.77	0.64
3:B:1054:ASP:HB2	3:B:1094:SER:HA	1.78	0.64
5:E:29:GLU:O	5:E:33:GLN:HG3	1.97	0.64
7:H:34:GLU:HG3	8:K:84:ASN:OD1	1.97	0.64
1:Q:338:GLY:HA3	1:Q:444:ARG:CG	2.26	0.64
1:Q:749:GLN:H	1:Q:781:PHE:CA	2.07	0.64
2:G:297:ILE:C	2:G:299:LYS:H	1.99	0.64
3:R:40:GLN:HE22	3:R:62:LYS:HA	1.62	0.64

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:98:LEU:CD1	3:R:100:MET:HG3	2.27	0.64
3:R:582:VAL:HG22	3:R:586:ASN:O	1.97	0.64
3:R:853:THR:HG23	11:Z:32:LYS:O	1.98	0.64
6:U:53:GLN:O	6:U:57:GLU:HG3	1.97	0.64
1:A:71:HIS:HB3	3:B:1070:TYR:OH	1.97	0.64
1:A:345:LYS:HA	1:A:410:HIS:CD2	2.32	0.64
2:C:102:LEU:HD23	2:C:103:GLY:H	1.60	0.64
3:B:495:VAL:O	3:B:528:GLY:HA3	1.98	0.64
3:B:727:MET:HB2	3:B:983:ILE:HD12	1.78	0.64
3:B:971:TYR:CZ	4:D:165:ARG:HA	2.33	0.64
2:G:55:ALA:CA	2:G:58:GLU:HG3	2.22	0.64
2:G:297:ILE:HG22	2:G:313:ILE:HD13	1.80	0.64
3:R:5:LEU:O	3:R:5:LEU:HD22	1.97	0.64
3:R:20:SER:O	3:R:21:LYS:HG2	1.96	0.64
3:R:171:ARG:HD2	3:R:342:ARG:NH2	2.13	0.64
3:R:558:ILE:HG12	3:R:567:HIS:CD2	2.33	0.64
3:R:591:ILE:HG21	3:R:607:LEU:HD21	1.80	0.64
3:R:595:GLU:HA	3:R:599:SER:HB3	1.78	0.64
3:R:729:PHE:O	3:R:731:GLY:N	2.29	0.64
4:S:105:GLU:N	4:S:135:THR:HG22	2.13	0.64
8:W:82:LEU:HD12	8:W:84:ASN:HB2	1.79	0.64
1:A:234:ASP:OD2	1:A:296:ARG:HD3	1.96	0.64
1:A:486:ILE:HD11	1:A:628:MET:HE1	1.78	0.64
1:A:646:MET:CE	1:A:725:ALA:HB2	2.27	0.64
2:C:103:GLY:HA3	2:C:300:VAL:HG13	1.80	0.64
3:B:393:ARG:HH21	3:B:403:TRP:HH2	1.42	0.64
3:B:433:LEU:HB2	3:B:435:ARG:CZ	2.27	0.64
1:Q:349:VAL:HG21	1:Q:415:ASP:OD2	1.98	0.64
2:G:282:GLU:O	7:V:50:PRO:HB3	1.97	0.64
3:R:705:THR:HG22	3:R:706:ARG:N	2.05	0.64
10:Y:55:ILE:O	10:Y:59:VAL:HG23	1.97	0.64
1:A:386:ILE:O	1:A:387:ASP:O	2.14	0.64
2:C:250:ILE:HG22	2:C:251:ILE:N	2.13	0.64
2:C:305:GLY:O	2:C:306:LEU:O	2.16	0.64
3:B:246:PRO:HG2	3:B:249:GLN:CG	2.28	0.64
3:B:278:ILE:HG22	3:B:279:GLY:N	2.12	0.64
3:B:557:HIS:CE1	3:B:566:VAL:HG13	2.32	0.64
4:D:16:VAL:O	4:D:16:VAL:HG12	1.97	0.64
4:D:236:LEU:HB2	4:D:241:ILE:HD11	1.80	0.64
1:Q:79:ARG:HB2	1:Q:266:TRP:HE3	1.61	0.64
1:Q:334:ILE:HG22	1:Q:482:VAL:HG11	1.78	0.64

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:452:PRO:HA	1:Q:495:ILE:CD1	2.28	0.64
1:Q:859:TYR:HB2	2:G:64:ILE:CG1	2.28	0.64
3:R:792:LEU:HD11	3:R:809:VAL:CG1	2.27	0.64
3:R:800:PRO:HG2	11:Z:37:VAL:HA	1.80	0.64
4:S:23:GLU:O	9:X:27:LEU:HD13	1.98	0.64
6:U:77:PRO:CG	6:U:83:VAL:HG22	2.28	0.64
7:V:42:LEU:CD1	7:V:80:TYR:HB2	2.26	0.64
8:W:43:LEU:CD1	8:W:64:ILE:HG13	2.28	0.64
3:B:245:ASP:N	3:B:246:PRO:HD3	2.13	0.64
3:B:765:TYR:CG	3:B:766:PRO:HD2	2.32	0.64
3:B:1081:ILE:HG21	3:B:1085:LYS:NZ	2.13	0.64
4:D:29:ARG:HG3	4:D:162:SER:O	1.97	0.64
9:L:87:ILE:CG2	9:L:88:LYS:N	2.61	0.64
3:R:8:ASP:O	3:R:12:ARG:HG2	1.98	0.64
10:Y:54:ASP:OD2	10:Y:56:ILE:HG22	1.98	0.64
3:B:154:VAL:HG21	3:B:399:ALA:CB	2.28	0.64
3:B:588:LEU:CD1	3:B:612:LYS:HB3	2.24	0.64
3:B:600:GLY:O	3:B:602:ILE:HG13	1.98	0.64
3:B:904:VAL:CG2	10:N:42:ARG:HG2	2.28	0.64
3:B:1004:ARG:HD3	3:B:1004:ARG:C	2.17	0.64
10:N:54:ASP:OD2	10:N:56:ILE:HG22	1.98	0.64
1:Q:369:PRO:HA	1:Q:410:HIS:HE1	1.63	0.64
1:Q:446:ASN:HD22	1:Q:447:LEU:N	1.95	0.64
3:R:154:VAL:HG21	3:R:399:ALA:CB	2.27	0.64
3:R:348:ASP:OD2	3:R:348:ASP:N	2.31	0.64
3:R:624:ALA:HB1	3:R:639:HIS:HD2	1.63	0.64
1:A:589:LYS:HD3	1:A:877:GLY:O	1.98	0.64
2:C:52:PHE:O	2:C:55:ALA:HB3	1.98	0.64
3:B:43:ILE:O	3:B:43:ILE:HG22	1.98	0.64
3:B:463:ASN:HB3	3:B:467:VAL:HG12	1.80	0.64
3:B:630:PRO:O	3:B:633:LEU:HB3	1.97	0.64
3:B:691:ARG:NH1	3:B:756:ARG:NH2	2.45	0.64
3:B:778:ALA:HA	3:B:783:TYR:CE1	2.32	0.64
4:D:39:MET:HE3	4:D:72:ALA:HB1	1.78	0.64
8:K:60:ASP:OD2	8:K:60:ASP:N	2.31	0.64
1:Q:90:ILE:CD1	1:Q:207:MET:HB3	2.27	0.64
1:Q:506:ALA:HA	1:Q:635:PHE:CE2	2.33	0.64
2:G:28:ILE:HD13	8:W:14:HIS:HB3	1.80	0.64
2:G:310:ILE:H	2:G:310:ILE:CD1	2.08	0.64
3:R:183:ILE:HG13	3:R:206:LYS:HB3	1.80	0.64
3:R:591:ILE:CG1	3:R:612:LYS:HZ2	2.10	0.64

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:663:SER:CB	3:R:664:PRO:HD3	2.28	0.64
5:T:29:GLU:O	5:T:33:GLN:HG3	1.98	0.64
8:W:70:ARG:HB3	8:W:70:ARG:HH11	1.62	0.64
2:C:318:ASP:O	2:C:322:ARG:HD3	1.98	0.63
3:B:98:LEU:CD1	3:B:100:MET:HG3	2.28	0.63
3:B:861:LEU:HD12	3:B:862:VAL:H	1.63	0.63
4:D:115:LYS:O	4:D:116:SER:HB3	1.97	0.63
1:Q:12:GLY:HA2	2:G:358:ALA:O	1.97	0.63
1:Q:15:SER:HB2	1:Q:16:PRO:HD2	1.79	0.63
1:Q:176:THR:HG23	1:Q:179:ASP:CB	2.25	0.63
3:R:518:SER:CB	3:R:564:ASN:ND2	2.61	0.63
4:S:6:LEU:HD13	4:S:16:VAL:HG21	1.79	0.63
4:S:13:ILE:HD11	4:S:238:PRO:HB2	1.80	0.63
8:W:23:TRP:HA	8:W:23:TRP:CE3	2.32	0.63
1:A:219:ILE:HD13	1:A:219:ILE:N	2.12	0.63
1:A:656:ASP:HA	1:A:659:LYS:HD2	1.80	0.63
1:A:728:MET:HE3	3:B:913:HIS:HA	1.80	0.63
1:A:833:GLU:HG3	1:A:839:ARG:HG3	1.80	0.63
2:C:297:ILE:HG22	2:C:313:ILE:HD13	1.79	0.63
2:C:369:VAL:O	2:C:373:ILE:HB	1.98	0.63
2:C:379:ILE:HD13	2:C:379:ILE:H	1.63	0.63
3:B:63:ILE:HG13	3:B:98:LEU:HD23	1.79	0.63
3:B:518:SER:CB	3:B:564:ASN:ND2	2.61	0.63
9:L:35:ILE:HD11	9:L:75:ASN:ND2	2.13	0.63
2:G:122:MET:HB2	2:G:253:THR:OG1	1.97	0.63
2:G:126:LEU:HD11	2:G:249:TYR:HB2	1.79	0.63
3:R:210:PHE:CZ	3:R:323:ILE:HG22	2.32	0.63
3:R:358:PHE:O	3:R:362:VAL:HG23	1.98	0.63
3:R:402:ASN:HB2	3:R:410:VAL:HB	1.81	0.63
3:R:893:PRO:HG2	3:R:896:ASP:OD1	1.98	0.63
4:S:77:ARG:N	4:S:91:LYS:O	2.28	0.63
4:S:124:ILE:O	4:S:125:SER:HB2	1.97	0.63
1:A:6:ILE:HD11	3:B:1091:VAL:HG11	1.79	0.63
1:A:238:LYS:HD3	1:A:276:TYR:HA	1.80	0.63
2:C:52:PHE:HA	2:C:55:ALA:HB3	1.81	0.63
3:B:193:THR:HG1	3:B:198:VAL:HA	1.63	0.63
3:B:727:MET:CE	3:B:898:PRO:HG3	2.29	0.63
3:B:745:VAL:HG13	3:B:872:PRO:HG2	1.81	0.63
4:D:48:GLU:OE2	4:D:138:LYS:HD3	1.98	0.63
1:Q:68:CYS:SG	1:Q:71:HIS:NE2	2.71	0.63
1:Q:339:VAL:CG2	1:Q:435:VAL:HG23	2.27	0.63

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:417:VAL:HG11	1:Q:464:LEU:CD1	2.27	0.63
1:Q:448:LEU:O	1:Q:451:PRO:HD2	1.98	0.63
1:Q:866:VAL:HG12	1:Q:869:ASN:N	2.02	0.63
3:R:403:TRP:CG	3:R:404:VAL:N	2.65	0.63
3:R:680:TYR:HE1	3:R:687:ARG:HH12	1.46	0.63
3:R:853:THR:HG22	3:R:854:GLU:N	2.04	0.63
4:S:48:GLU:OE2	4:S:138:LYS:HD3	1.98	0.63
1:A:476:ALA:HB2	3:B:1044:LEU:HD13	1.80	0.63
1:A:489:PRO:HB3	1:A:858:MET:HG3	1.81	0.63
1:A:687:ILE:HG13	1:A:695:SER:HB3	1.81	0.63
2:C:274:THR:CG2	2:C:275:ASN:H	1.94	0.63
3:B:81:SER:O	3:B:84:GLU:HB2	1.99	0.63
3:B:253:PHE:N	3:B:254:PRO:HD2	2.12	0.63
3:B:325:LEU:HD13	3:B:330:ARG:HB2	1.80	0.63
3:B:699:GLN:HG3	3:B:720:ASN:ND2	2.13	0.63
3:B:850:VAL:HG13	3:B:864:VAL:HG22	1.80	0.63
3:B:910:LEU:HD23	3:B:911:ASN:H	1.62	0.63
8:K:90:LEU:HD23	8:K:90:LEU:H	1.64	0.63
1:Q:506:ALA:HA	1:Q:635:PHE:HE2	1.63	0.63
1:Q:704:LEU:HD13	1:Q:781:PHE:CD1	2.27	0.63
2:G:115:LYS:HE2	2:G:279:GLU:HB2	1.79	0.63
2:G:354:LEU:O	3:R:1109:ILE:HD12	1.99	0.63
2:G:370:VAL:O	2:G:373:ILE:HG22	1.98	0.63
3:R:43:ILE:O	3:R:43:ILE:HG22	1.97	0.63
3:R:63:ILE:HG13	3:R:98:LEU:HD23	1.80	0.63
3:R:81:SER:O	3:R:84:GLU:HB2	1.97	0.63
3:R:214:PHE:CD1	3:R:215:PRO:HD2	2.34	0.63
3:R:495:VAL:O	3:R:528:GLY:HA3	1.98	0.63
1:A:354:THR:HB	1:A:355:PRO:CD	2.27	0.63
1:A:589:LYS:HZ3	1:A:879:LYS:H	1.46	0.63
1:A:827:LEU:CD2	2:C:316:ILE:HD13	2.28	0.63
1:Q:308:ARG:HH22	3:R:1012:LEU:HD11	1.62	0.63
2:G:57:LYS:HE3	2:G:57:LYS:CA	2.26	0.63
2:G:111:VAL:HG13	2:G:329:ILE:HD12	1.78	0.63
3:R:416:ARG:HH12	3:R:687:ARG:HH21	1.47	0.63
3:R:754:PHE:HE2	3:R:756:ARG:HB2	1.64	0.63
3:R:1049:LEU:O	3:R:1049:LEU:HD12	1.97	0.63
5:T:63:ASP:OD2	5:T:65:ALA:HB3	1.98	0.63
8:W:71:ARG:HB3	8:W:73:VAL:CG1	2.29	0.63
1:A:79:ARG:HB2	1:A:266:TRP:HE3	1.60	0.63
1:A:90:ILE:HG23	1:A:184:LEU:HD11	1.81	0.63

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:708:ARG:O	1:A:711:ALA:HB3	1.98	0.63
1:A:831:ARG:HH21	2:C:385:MET:CB	2.10	0.63
2:C:355:LEU:HD23	3:B:1109:ILE:HD11	1.80	0.63
3:B:1069:TRP:CZ3	3:B:1077:TYR:HB2	2.34	0.63
1:Q:438:LEU:O	1:Q:438:LEU:HD23	1.98	0.63
1:Q:782:ILE:N	1:Q:782:ILE:HD12	2.14	0.63
2:G:292:ILE:HD13	7:V:16:LEU:HD21	1.78	0.63
3:R:628:LEU:H	3:R:628:LEU:CD2	2.09	0.63
3:R:794:ASP:OD2	11:Z:18:LEU:HD11	1.98	0.63
3:R:1004:ARG:HD3	3:R:1004:ARG:C	2.19	0.63
8:W:23:TRP:HA	8:W:23:TRP:HE3	1.63	0.63
1:A:328:PRO:HG3	1:A:457:PHE:CD1	2.34	0.63
1:A:431:MET:CE	1:A:482:VAL:HG13	2.29	0.63
1:A:528:ALA:O	1:A:530:VAL:N	2.32	0.63
2:C:106:ARG:HD2	2:C:109:GLU:OE1	1.99	0.63
2:C:310:ILE:HG22	2:C:314:LEU:CD2	2.27	0.63
3:B:159:ARG:HD3	3:B:399:ALA:HA	1.80	0.63
3:B:789:TYR:HB3	3:B:792:LEU:HD12	1.80	0.63
3:B:855:THR:CB	3:B:857:GLU:HG2	2.28	0.63
7:H:42:LEU:CD1	7:H:80:TYR:HB2	2.29	0.63
8:K:53:ILE:H	8:K:53:ILE:CD1	2.08	0.63
9:L:15:LEU:HB3	9:L:55:VAL:CG2	2.29	0.63
1:Q:58:CYS:SG	1:Q:59:PRO:CD	2.83	0.63
1:Q:245:ILE:HD13	1:Q:268:LEU:CD1	2.28	0.63
1:Q:353:ILE:HD11	1:Q:407:ILE:HG23	1.80	0.63
1:Q:534:LEU:HD13	1:Q:535:GLY:N	2.14	0.63
1:Q:615:LEU:O	1:Q:619:TYR:HB2	1.99	0.63
1:Q:841:LEU:O	1:Q:843:GLY:N	2.32	0.63
2:G:35:LEU:O	2:G:39:LYS:HG3	1.99	0.63
2:G:305:GLY:O	2:G:306:LEU:O	2.17	0.63
3:R:677:LEU:HD12	3:R:992:LYS:CD	2.29	0.63
3:R:727:MET:HB2	3:R:983:ILE:HD12	1.79	0.63
4:S:24:PHE:HZ	9:X:80:THR:HA	1.64	0.63
4:S:35:TYR:HE2	9:X:23:THR:HG21	1.63	0.63
6:U:23:ASP:HA	6:U:26:ARG:CD	2.29	0.63
6:U:79:THR:HG22	6:U:80:SER:N	2.13	0.63
7:V:23:LEU:HB3	7:V:28:ALA:HB2	1.79	0.63
1:A:338:GLY:HA3	1:A:444:ARG:CG	2.24	0.63
1:A:402:ALA:O	1:A:404:GLY:N	2.31	0.63
1:A:448:LEU:O	1:A:451:PRO:HD2	1.99	0.63
1:A:558:LYS:HZ1	3:R:108:GLU:HG3	1.64	0.63

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:59:ARG:HH12	3:B:107:ILE:CD1	2.11	0.63
3:B:70:VAL:HG13	3:B:80:ILE:HD13	1.79	0.63
3:B:280:GLN:O	3:B:285:ARG:NH1	2.32	0.63
3:B:419:TRP:HZ3	3:B:712:GLY:HA3	1.64	0.63
1:Q:180:ILE:O	1:Q:183:ARG:HB2	1.98	0.63
1:Q:386:ILE:O	1:Q:387:ASP:O	2.16	0.63
1:Q:589:LYS:HD3	1:Q:877:GLY:O	1.98	0.63
1:Q:834:TYR:CE1	8:W:80:ARG:HD3	2.34	0.63
2:G:126:LEU:HD12	2:G:131:LYS:HG3	1.81	0.63
2:G:356:ASP:O	2:G:360:ARG:HB2	1.99	0.63
3:R:28:LEU:HG	3:R:122:MET:CE	2.27	0.63
3:R:59:ARG:HH12	3:R:107:ILE:HD12	1.64	0.63
3:R:108:GLU:O	3:R:110:GLU:N	2.31	0.63
3:R:148:PRO:HG3	3:R:422:MET:SD	2.39	0.63
3:R:691:ARG:NH1	3:R:756:ARG:NH2	2.47	0.63
3:R:701:PRO:HG3	3:R:708:LEU:HD11	1.79	0.63
3:R:881:ARG:HH11	3:R:989:TYR:CB	2.12	0.63
1:A:4:LYS:HB2	3:B:1089:PHE:HB3	1.81	0.63
1:A:573:ARG:HH21	1:A:721:PRO:HB3	1.64	0.63
1:A:782:ILE:N	1:A:782:ILE:HD12	2.14	0.63
2:C:132:ARG:HA	2:C:249:TYR:CD1	2.34	0.63
3:B:403:TRP:CG	3:B:404:VAL:N	2.65	0.63
3:B:591:ILE:HG21	3:B:607:LEU:HD21	1.81	0.63
3:B:600:GLY:C	3:B:602:ILE:H	2.00	0.63
3:B:764:LYS:HD2	3:B:771:ASP:HB2	1.81	0.63
3:B:946:TYR:CD1	3:B:949:PRO:HA	2.34	0.63
10:N:55:ILE:O	10:N:59:VAL:HG23	1.99	0.63
1:Q:258:PRO:O	1:Q:260:LEU:N	2.32	0.63
1:Q:337:VAL:HG23	1:Q:433:HIS:HB3	1.81	0.63
2:G:126:LEU:HB2	2:G:131:LYS:HG3	1.79	0.63
8:W:12:ASP:O	8:W:13:LEU:HB2	1.98	0.63
10:Y:6:ARG:HA	10:Y:12:SER:O	1.98	0.63
1:A:25:THR:HG22	1:A:27:ILE:H	1.63	0.62
1:A:234:ASP:C	1:A:236:THR:H	2.00	0.62
1:A:369:PRO:HA	1:A:410:HIS:HE1	1.64	0.62
3:B:148:PRO:HG3	3:B:422:MET:SD	2.39	0.62
3:B:161:ILE:HG21	3:B:346:ALA:HA	1.80	0.62
3:B:764:LYS:HZ1	3:B:772:LYS:C	2.01	0.62
3:B:812:GLY:HA2	3:B:836:SER:HB3	1.79	0.62
3:B:1099:LEU:HB3	3:B:1103:GLU:OE1	1.98	0.62
5:E:127:ILE:HB	5:E:136:ILE:HG13	1.80	0.62

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:23:ASP:HA	6:F:26:ARG:CD	2.29	0.62
1:Q:177:PRO:HG2	1:Q:270:GLN:NE2	2.13	0.62
1:Q:827:LEU:CD2	2:G:316:ILE:HD13	2.29	0.62
2:G:52:PHE:O	2:G:55:ALA:HB3	1.98	0.62
3:R:245:ASP:N	3:R:246:PRO:HD3	2.13	0.62
3:R:537:ALA:HB2	3:R:557:HIS:CD2	2.34	0.62
3:R:557:HIS:ND1	3:R:566:VAL:HG22	2.14	0.62
3:R:723:ILE:HD12	10:Y:43:TYR:HE1	1.63	0.62
3:R:789:TYR:HB3	3:R:792:LEU:HD12	1.81	0.62
3:R:803:GLU:HG2	3:R:846:ILE:CG1	2.29	0.62
3:R:838:VAL:HG12	3:R:839:THR:N	2.13	0.62
3:R:910:LEU:HD23	3:R:911:ASN:H	1.64	0.62
3:R:1058:ILE:O	3:R:1091:VAL:HG12	1.99	0.62
4:S:191:LYS:CB	4:S:194:LYS:HD2	2.25	0.62
1:A:55:GLY:O	1:A:57:LYS:N	2.32	0.62
1:A:704:LEU:HD22	1:A:781:PHE:HE1	1.60	0.62
1:A:723:ASN:C	1:A:723:ASN:HD22	2.02	0.62
3:B:242:VAL:CA	3:B:316:ALA:HB1	2.24	0.62
3:B:287:GLU:C	3:B:289:ALA:H	2.02	0.62
3:B:850:VAL:O	11:P:35:PHE:HB2	1.99	0.62
8:K:82:LEU:HD23	8:K:82:LEU:H	1.64	0.62
1:Q:71:HIS:HB3	3:R:1070:TYR:OH	1.98	0.62
1:Q:219:ILE:HD13	1:Q:219:ILE:N	2.13	0.62
1:Q:573:ARG:HH21	1:Q:721:PRO:HB3	1.63	0.62
2:G:112:ASP:O	2:G:113:ALA:HB3	1.99	0.62
2:G:391:ARG:HH21	8:W:42:GLN:CG	2.11	0.62
3:R:321:LYS:HD2	3:R:330:ARG:HE	1.63	0.62
3:R:638:THR:HB	3:R:639:HIS:CD2	2.34	0.62
3:R:1069:TRP:HE1	3:R:1088:LEU:HB3	1.64	0.62
4:S:217:ILE:HD12	4:S:217:ILE:N	2.13	0.62
1:A:775:SER:HB3	1:A:777:GLU:HG2	1.81	0.62
2:C:47:GLU:HA	2:C:50:LYS:HD2	1.79	0.62
2:C:112:ASP:O	2:C:113:ALA:HB3	2.00	0.62
2:C:301:LEU:HA	2:C:304:GLN:HG3	1.81	0.62
3:B:5:LEU:O	3:B:5:LEU:HD22	1.99	0.62
3:B:17:TYR:OH	3:B:474:ALA:HA	1.99	0.62
3:B:373:LYS:HE3	3:B:375:ARG:CD	2.28	0.62
3:B:677:LEU:HD12	3:B:992:LYS:CD	2.28	0.62
4:D:69:SER:HA	4:D:72:ALA:HB3	1.80	0.62
5:E:171:LYS:HE2	5:E:173:GLU:HB2	1.79	0.62
10:N:42:ARG:O	10:N:46:ARG:HB2	2.00	0.62

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:337:VAL:HG23	1:Q:433:HIS:CB	2.29	0.62
1:Q:418:LEU:HD11	3:R:1044:LEU:HD11	1.80	0.62
2:G:310:ILE:HG22	2:G:314:LEU:HD23	1.81	0.62
2:G:389:THR:HG21	8:W:79:ARG:NH1	2.13	0.62
4:S:236:LEU:HB2	4:S:241:ILE:HD11	1.80	0.62
5:T:6:LYS:HE3	6:U:8:GLU:HB2	1.79	0.62
7:V:55:ILE:HG23	7:V:55:ILE:O	1.99	0.62
1:A:15:SER:O	1:A:19:ILE:HG13	1.99	0.62
1:A:764:ARG:HH11	1:A:764:ARG:CB	2.12	0.62
2:C:126:LEU:HB2	2:C:131:LYS:HG3	1.80	0.62
2:C:126:LEU:HD12	2:C:131:LYS:HG3	1.80	0.62
2:C:292:ILE:HG23	2:C:293:ILE:N	2.14	0.62
3:B:476:ILE:HD13	3:B:476:ILE:N	2.15	0.62
3:B:887:VAL:CG1	3:B:888:ILE:N	2.61	0.62
10:N:42:ARG:HG3	10:N:43:TYR:N	2.12	0.62
1:Q:312:ASN:HB3	3:R:1015:GLN:OE1	1.98	0.62
1:Q:648:LEU:O	1:Q:651:VAL:HG12	1.98	0.62
1:Q:741:THR:O	1:Q:743:MET:N	2.33	0.62
1:Q:764:ARG:O	1:Q:766:LEU:N	2.32	0.62
2:G:80:GLU:HB3	2:G:81:PRO:CD	2.28	0.62
2:G:390:MET:HE2	5:T:66:THR:HG23	1.81	0.62
3:R:473:MET:SD	3:R:475:GLN:N	2.72	0.62
3:R:904:VAL:HG21	10:Y:42:ARG:HG2	1.81	0.62
5:T:103:PRO:HB3	6:U:37:THR:OG1	1.98	0.62
7:V:24:ASN:HB2	7:V:27:GLU:OE2	1.99	0.62
1:A:696:LEU:O	1:A:700:ILE:HG12	2.00	0.62
3:B:116:ILE:HG23	3:B:361:PHE:CZ	2.34	0.62
3:B:230:LEU:HD13	3:B:312:ALA:CB	2.30	0.62
3:B:325:LEU:HD12	3:B:328:GLY:HA2	1.81	0.62
4:D:101:GLU:HG2	4:D:102:ALA:H	1.64	0.62
6:F:79:THR:HG22	6:F:80:SER:N	2.14	0.62
7:H:18:PRO:HB2	7:H:67:ARG:HA	1.81	0.62
8:K:26:ARG:HB3	8:K:27:LEU:HD12	1.80	0.62
8:K:45:MET:HA	8:K:45:MET:HE2	1.82	0.62
1:Q:319:ASP:O	1:Q:320:PHE:HB2	1.99	0.62
1:Q:644:PHE:HA	1:Q:724:PHE:CE2	2.34	0.62
1:Q:746:MET:H	1:Q:785:SER:HB3	1.65	0.62
1:Q:764:ARG:HH11	1:Q:764:ARG:CB	2.11	0.62
2:G:107:LEU:O	2:G:110:ILE:HG22	1.99	0.62
3:R:59:ARG:HH12	3:R:107:ILE:CD1	2.13	0.62
3:R:248:VAL:HG21	3:R:329:ARG:NH2	2.15	0.62

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:1077:TYR:O	3:R:1077:TYR:HD1	1.82	0.62
4:S:69:SER:HA	4:S:72:ALA:HB3	1.81	0.62
4:S:235:SER:O	4:S:236:LEU:HD12	1.98	0.62
1:A:220:ARG:HA	1:A:233:ASP:OD1	2.00	0.62
1:A:446:ASN:O	1:A:448:LEU:N	2.32	0.62
1:A:561:ASN:ND2	1:A:590:ASN:H	1.98	0.62
2:C:28:ILE:HD13	8:K:14:HIS:CG	2.34	0.62
3:B:536:LEU:HD13	3:B:537:ALA:N	2.14	0.62
4:D:148:GLY:HA3	4:D:156:PHE:CE1	2.34	0.62
9:L:18:GLU:HG3	9:L:52:LYS:HG2	1.82	0.62
2:G:68:GLU:HB3	8:W:30:TYR:CZ	2.34	0.62
2:G:115:LYS:HB2	2:G:278:ARG:CG	2.29	0.62
3:R:230:LEU:HD13	3:R:312:ALA:CB	2.30	0.62
3:R:248:VAL:O	3:R:251:GLU:HB2	1.99	0.62
3:R:602:ILE:CG2	3:R:603:THR:N	2.62	0.62
3:R:702:LEU:HB2	3:R:721:ASN:CG	2.19	0.62
4:S:206:CYS:O	4:S:207:GLU:HB2	1.98	0.62
1:A:350:PRO:HD3	1:A:468:GLN:NE2	2.15	0.62
1:A:612:LEU:HA	1:A:615:LEU:HD12	1.81	0.62
1:A:837:THR:HG22	1:A:838:VAL:N	2.13	0.62
3:B:518:SER:HB3	3:B:564:ASN:HD21	1.64	0.62
3:B:537:ALA:HB2	3:B:557:HIS:CD2	2.34	0.62
4:D:63:ALA:HB1	4:D:155:LYS:HZ3	1.64	0.62
4:D:105:GLU:N	4:D:135:THR:HG22	2.15	0.62
6:F:16:VAL:C	6:F:18:LYS:H	2.03	0.62
8:K:12:ASP:O	8:K:13:LEU:HB2	1.97	0.62
2:G:115:LYS:HD3	2:G:278:ARG:HB3	1.82	0.62
2:G:131:LYS:HB3	2:G:248:GLU:HG2	1.81	0.62
2:G:368:GLY:HA3	2:G:371:GLU:OE1	1.99	0.62
3:R:1051:ASP:O	3:R:1055:ARG:HD2	2.00	0.62
5:T:36:GLU:OE2	6:U:34:LEU:HD11	1.98	0.62
7:V:62:ILE:HD13	7:V:62:ILE:N	2.14	0.62
1:A:13:ILE:HD11	1:A:86:LEU:HD13	1.82	0.62
1:A:23:SER:OG	1:A:73:GLY:HA2	2.00	0.62
1:A:238:LYS:HZ2	1:A:276:TYR:C	2.02	0.62
1:A:258:PRO:O	1:A:260:LEU:N	2.33	0.62
1:A:284:LEU:N	1:A:285:PRO:HD2	2.13	0.62
3:B:319:ILE:O	3:B:323:ILE:HG12	2.00	0.62
4:D:183:CYS:SG	14:D:1001:F3S:S4	2.98	0.62
8:K:53:ILE:HD12	8:K:53:ILE:N	2.12	0.62
8:K:91:SER:O	8:K:92:LEU:CB	2.48	0.62

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:N:64:ARG:HD3	10:N:64:ARG:N	2.13	0.62
1:Q:175:LEU:CD2	1:Q:176:THR:H	2.06	0.62
1:Q:220:ARG:HA	1:Q:233:ASP:OD1	2.00	0.62
1:Q:418:LEU:HD21	3:R:1044:LEU:CD2	2.22	0.62
1:Q:672:VAL:HG13	1:Q:700:ILE:CD1	2.28	0.62
1:Q:856:PHE:CD1	1:Q:858:MET:HB2	2.35	0.62
2:G:106:ARG:HD2	2:G:109:GLU:OE1	2.00	0.62
3:R:70:VAL:HG11	3:R:80:ILE:HG21	1.81	0.62
3:R:158:GLU:OE2	3:R:416:ARG:NH1	2.32	0.62
3:R:282:ARG:HA	3:R:285:ARG:HD2	1.82	0.62
3:R:651:THR:HG22	3:R:670:SER:HA	1.82	0.62
3:R:702:LEU:HB2	3:R:721:ASN:ND2	2.15	0.62
3:R:899:TYR:CE1	3:R:971:TYR:HB2	2.35	0.62
7:V:25:ILE:H	7:V:25:ILE:HD12	1.63	0.62
10:Y:24:ARG:HD2	10:Y:34:VAL:HG13	1.82	0.62
1:A:645:THR:OG1	1:A:646:MET:N	2.33	0.62
2:C:15:GLU:HA	2:C:18:LYS:CD	2.30	0.62
3:B:353:LEU:HA	3:B:404:VAL:HG11	1.81	0.62
3:B:469:ASN:HD22	3:B:469:ASN:N	1.98	0.62
3:B:517:TRP:HD1	3:B:531:GLN:N	1.94	0.62
3:B:651:THR:HG22	3:B:670:SER:HA	1.82	0.62
4:D:124:ILE:O	4:D:125:SER:HB2	1.99	0.62
4:D:173:LEU:O	4:D:174:ALA:HB2	2.00	0.62
8:K:55:ASN:O	8:K:56:LEU:HB3	1.99	0.62
9:L:46:PRO:HD2	9:L:52:LYS:O	1.99	0.62
1:Q:25:THR:HG22	1:Q:27:ILE:H	1.64	0.62
1:Q:317:ARG:NH1	3:R:1018:GLU:HG3	2.15	0.62
1:Q:488:THR:HG22	1:Q:490:ARG:H	1.64	0.62
1:Q:608:PRO:O	1:Q:609:GLU:HG2	1.99	0.62
2:G:339:ASN:OD1	2:G:344:ARG:HD2	2.00	0.62
3:R:243:SER:HB2	3:R:246:PRO:HG3	1.82	0.62
3:R:343:LEU:HD12	3:R:343:LEU:N	2.14	0.62
3:R:1083:GLY:C	3:R:1085:LYS:H	2.03	0.62
1:A:15:SER:HB2	1:A:16:PRO:HD2	1.80	0.62
1:A:650:ASP:HB3	1:A:723:ASN:HD21	1.65	0.62
3:B:688:THR:OG1	3:B:863:LYS:HD3	2.00	0.62
5:E:50:ASN:O	5:E:72:PHE:HA	1.99	0.62
8:K:21:SER:O	8:K:24:GLN:HG3	2.00	0.62
2:G:115:LYS:C	2:G:116:VAL:HG22	2.20	0.62
3:R:287:GLU:C	3:R:289:ALA:H	2.03	0.62
3:R:419:TRP:CZ3	3:R:712:GLY:HA3	2.34	0.62

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:176:CYS:N	4:S:195:LEU:HD21	2.15	0.62
9:X:46:PRO:HD2	9:X:52:LYS:O	2.00	0.62
2:C:145:GLU:HG2	2:C:239:ARG:HA	1.82	0.61
2:C:311:ARG:HD3	2:C:311:ARG:H	1.63	0.61
3:B:555:VAL:HA	3:B:567:HIS:O	2.00	0.61
4:D:250:ILE:HD11	9:L:84:ILE:HD11	1.82	0.61
5:E:26:ALA:O	5:E:30:LEU:HB2	2.00	0.61
7:H:55:ILE:HG23	7:H:55:ILE:O	2.00	0.61
9:L:40:PHE:HE2	9:L:42:SER:HG	1.46	0.61
1:Q:299:ALA:HB1	2:G:351:VAL:HG11	1.81	0.61
1:Q:867:ASP:OD1	2:G:32:LEU:HB3	2.00	0.61
3:R:741:ASN:OD1	3:R:743:SER:N	2.33	0.61
3:R:764:LYS:HD2	3:R:771:ASP:HB2	1.82	0.61
3:R:773:ILE:HG12	3:R:813:LYS:CG	2.30	0.61
3:R:873:THR:HG22	3:R:874:ILE:H	1.64	0.61
4:S:191:LYS:H	4:S:194:LYS:HB2	1.65	0.61
1:A:180:ILE:O	1:A:183:ARG:HB2	1.99	0.61
1:A:378:VAL:HG12	1:A:388:LEU:HD12	1.82	0.61
1:A:500:GLN:HB2	3:B:913:HIS:CG	2.34	0.61
1:A:821:ARG:HG2	1:A:821:ARG:HH11	1.64	0.61
2:C:389:THR:CG2	8:K:77:THR:HB	2.29	0.61
3:B:638:THR:HB	3:B:639:HIS:CD2	2.34	0.61
3:B:1033:ARG:HH11	3:B:1033:ARG:CG	2.10	0.61
3:B:1077:TYR:O	3:B:1077:TYR:HD1	1.82	0.61
5:E:97:ILE:HD12	5:E:113:ILE:HD11	1.81	0.61
7:H:52:ALA:C	7:H:54:SER:N	2.51	0.61
1:Q:471:GLU:OE1	8:W:41:LEU:HD13	2.01	0.61
1:Q:828:SER:C	1:Q:830:LEU:H	2.03	0.61
2:G:393:ILE:HG21	2:G:395:ARG:NH2	2.12	0.61
3:R:12:ARG:HH11	3:R:596:LYS:HG2	1.65	0.61
3:R:339:ALA:HB2	3:R:618:ALA:CB	2.28	0.61
3:R:1004:ARG:NH1	3:R:1024:GLY:HA2	2.16	0.61
1:A:206:TRP:CH2	1:A:209:LEU:HD23	2.35	0.61
1:A:763:THR:HG21	1:A:772:TYR:CD2	2.35	0.61
2:C:12:TYR:O	2:C:13:LEU:HD23	2.00	0.61
2:C:310:ILE:HG22	2:C:314:LEU:HD23	1.82	0.61
3:B:702:LEU:HD13	10:N:47:ARG:CD	2.30	0.61
3:B:911:ASN:HD22	3:B:913:HIS:HB2	1.63	0.61
4:D:51:SER:HA	4:D:137:GLN:NE2	2.14	0.61
1:Q:276:TYR:HD2	1:Q:277:PHE:HE1	1.44	0.61
1:Q:525:LEU:HD11	1:Q:530:VAL:HG11	1.81	0.61

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:807:VAL:HG13	3:R:443:ARG:NH1	2.15	0.61
1:Q:823:LEU:HB3	2:G:329:ILE:HD13	1.82	0.61
2:G:383:THR:CG2	3:R:1042:ALA:H	2.13	0.61
3:R:63:ILE:HG13	3:R:98:LEU:CB	2.31	0.61
3:R:70:VAL:HG11	3:R:90:LEU:HD23	1.82	0.61
3:R:325:LEU:HD13	3:R:330:ARG:HB2	1.81	0.61
3:R:476:ILE:HD13	3:R:476:ILE:N	2.14	0.61
3:R:536:LEU:HD13	3:R:537:ALA:N	2.15	0.61
3:R:895:VAL:HG11	4:S:34:LEU:HD21	1.82	0.61
5:T:17:GLU:HB3	5:T:20:LYS:HD2	1.82	0.61
8:W:50:LEU:O	8:W:52:ASP:HB2	2.00	0.61
1:A:377:TYR:HE1	1:A:385:ARG:HG2	1.65	0.61
1:A:739:ASN:HB2	3:B:919:MET:SD	2.40	0.61
1:A:787:ARG:NH2	1:A:788:THR:HA	2.16	0.61
2:C:24:LEU:HD21	2:C:58:GLU:HB3	1.82	0.61
3:B:402:ASN:HB2	3:B:410:VAL:HB	1.82	0.61
3:B:533:GLY:O	3:B:535:GLU:N	2.33	0.61
7:H:23:LEU:HB2	7:H:62:ILE:O	2.00	0.61
1:Q:326:ILE:HG13	1:Q:326:ILE:O	2.00	0.61
1:Q:807:VAL:HG21	3:R:443:ARG:CD	2.30	0.61
1:Q:876:VAL:C	1:Q:878:TRP:H	2.03	0.61
3:R:81:SER:OG	3:R:141:ILE:HG23	2.00	0.61
3:R:319:ILE:O	3:R:323:ILE:HG12	2.00	0.61
3:R:887:VAL:CG1	3:R:888:ILE:N	2.63	0.61
7:V:52:ALA:C	7:V:54:SER:H	2.01	0.61
1:A:425:LEU:O	1:A:426:HIS:HB2	1.99	0.61
1:A:522:GLN:OE1	9:L:40:PHE:HA	2.01	0.61
3:B:96:LEU:O	3:B:115:TYR:HA	2.00	0.61
3:B:687:ARG:HH11	3:B:687:ARG:CG	2.12	0.61
7:H:24:ASN:HB2	7:H:27:GLU:OE2	2.00	0.61
1:Q:234:ASP:C	1:Q:236:THR:H	2.03	0.61
1:Q:837:THR:HG22	1:Q:838:VAL:H	1.65	0.61
2:G:52:PHE:O	2:G:56:ILE:N	2.27	0.61
2:G:132:ARG:HA	2:G:249:TYR:CD1	2.35	0.61
3:R:930:GLY:HA3	3:R:987:VAL:HB	1.82	0.61
4:S:159:VAL:HG22	4:S:160:SER:N	2.16	0.61
4:S:259:LYS:O	4:S:263:VAL:HG23	2.00	0.61
7:V:15:TYR:HD2	7:V:16:LEU:CD1	2.13	0.61
1:A:77:LEU:HD13	1:A:81:VAL:HG22	1.81	0.61
1:A:175:LEU:CD2	1:A:176:THR:H	2.08	0.61
1:A:308:ARG:O	1:A:313:LEU:HB2	2.01	0.61

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:486:ILE:HD11	1:A:628:MET:HE2	1.81	0.61
3:B:12:ARG:HH11	3:B:596:LYS:HG2	1.65	0.61
3:B:595:GLU:HA	3:B:599:SER:HB3	1.82	0.61
5:E:82:GLN:HA	5:E:145:ARG:CG	2.31	0.61
6:F:88:VAL:HG12	6:F:89:MET:H	1.65	0.61
8:K:43:LEU:CD1	8:K:64:ILE:HG13	2.31	0.61
8:K:71:ARG:HB3	8:K:73:VAL:CG1	2.30	0.61
1:Q:656:ASP:HA	1:Q:659:LYS:HD2	1.81	0.61
1:Q:687:ILE:HG13	1:Q:695:SER:HB3	1.82	0.61
1:Q:723:ASN:HD22	1:Q:724:PHE:N	1.97	0.61
1:Q:821:ARG:HG2	1:Q:821:ARG:HH11	1.65	0.61
2:G:52:PHE:HA	2:G:55:ALA:HB3	1.81	0.61
3:R:63:ILE:CD1	3:R:98:LEU:HD23	2.31	0.61
3:R:479:GLY:HA2	3:R:552:GLU:CB	2.21	0.61
3:R:560:THR:HG22	3:R:561:ASP:N	2.13	0.61
3:R:867:ARG:NH2	4:S:54:TYR:CE2	2.68	0.61
3:R:1012:LEU:O	3:R:1095:TYR:HE2	1.83	0.61
4:S:173:LEU:O	4:S:174:ALA:HB2	2.00	0.61
7:V:23:LEU:HB2	7:V:62:ILE:O	2.01	0.61
1:A:775:SER:CB	1:A:777:GLU:HG2	2.31	0.61
2:C:54:LEU:O	2:C:58:GLU:HG3	2.00	0.61
2:C:109:GLU:O	2:C:113:ALA:HA	2.00	0.61
3:B:803:GLU:HG2	3:B:846:ILE:CG1	2.31	0.61
3:B:1061:CYS:HB3	3:B:1065:GLY:N	2.16	0.61
4:D:6:LEU:HD13	4:D:16:VAL:CG2	2.30	0.61
4:D:257:GLU:O	4:D:260:LEU:HB3	2.00	0.61
7:H:15:TYR:HD2	7:H:16:LEU:CD1	2.14	0.61
1:Q:500:GLN:HB2	3:R:913:HIS:CG	2.35	0.61
1:Q:853:ASP:OD2	2:G:311:ARG:NH2	2.34	0.61
3:R:6:THR:HB	3:R:9:GLU:CB	2.30	0.61
3:R:414:LEU:HA	3:R:425:HIS:HD2	1.65	0.61
3:R:690:THR:HG22	3:R:691:ARG:CG	2.31	0.61
3:R:881:ARG:HH11	3:R:989:TYR:HB3	1.64	0.61
3:R:911:ASN:HD22	3:R:913:HIS:HB2	1.65	0.61
4:S:101:GLU:HG2	4:S:102:ALA:H	1.65	0.61
10:Y:64:ARG:HD3	10:Y:64:ARG:N	2.14	0.61
1:A:355:PRO:HG2	1:A:356:TRP:CE2	2.35	0.61
3:B:803:GLU:HB3	3:B:805:LYS:HZ2	1.65	0.61
3:B:972:ASP:OD2	3:B:974:ARG:HG2	2.00	0.61
3:B:1070:TYR:O	3:B:1071:ASP:O	2.18	0.61
5:E:30:LEU:HD11	5:E:72:PHE:CD2	2.36	0.61

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:446:ASN:C	1:Q:446:ASN:ND2	2.53	0.61
1:Q:486:ILE:HD11	1:Q:628:MET:HE1	1.80	0.61
1:Q:789:GLY:HA2	3:R:659:GLU:O	2.00	0.61
2:G:47:GLU:HA	2:G:50:LYS:HD2	1.81	0.61
3:R:300:HIS:O	3:R:301:LEU:C	2.39	0.61
3:R:497:VAL:CG1	3:R:498:GLU:N	2.63	0.61
3:R:533:GLY:O	3:R:535:GLU:N	2.33	0.61
3:R:855:THR:C	3:R:857:GLU:N	2.51	0.61
7:V:52:ALA:C	7:V:54:SER:N	2.52	0.61
8:W:55:ASN:O	8:W:56:LEU:HB3	2.00	0.61
1:A:79:ARG:HB2	1:A:266:TRP:CZ3	2.36	0.61
1:A:215:PRO:HB3	3:B:1106:SER:HB3	1.83	0.61
1:A:238:LYS:NZ	1:A:275:THR:O	2.34	0.61
3:B:59:ARG:HH22	3:B:107:ILE:CD1	2.13	0.61
3:B:171:ARG:HD2	3:B:342:ARG:NH2	2.15	0.61
3:B:560:THR:HG22	3:B:561:ASP:N	2.15	0.61
5:E:100:ASN:ND2	6:F:36:ARG:HD3	2.16	0.61
1:Q:262:ILE:CG1	1:Q:266:TRP:HE1	2.13	0.61
1:Q:427:ARG:N	2:G:76:GLN:HE22	1.98	0.61
1:Q:488:THR:OG1	1:Q:495:ILE:HB	2.00	0.61
2:G:24:LEU:HD21	2:G:58:GLU:HB3	1.82	0.61
2:G:274:THR:CG2	2:G:275:ASN:H	1.91	0.61
3:R:67:LYS:HB3	3:R:68:PRO:HD2	1.83	0.61
3:R:1004:ARG:HH11	3:R:1025:GLY:N	1.94	0.61
4:S:115:LYS:O	4:S:116:SER:HB3	2.00	0.61
5:T:145:ARG:O	5:T:163:THR:HG22	2.00	0.61
5:T:171:LYS:HE2	5:T:173:GLU:HB2	1.81	0.61
1:A:470:GLU:HB2	8:K:41:LEU:HD12	1.82	0.61
1:A:878:TRP:HZ3	2:C:50:LYS:HE2	1.65	0.61
2:C:131:LYS:HB3	2:C:248:GLU:HG2	1.83	0.61
3:B:276:VAL:HG12	3:B:277:ALA:N	2.13	0.61
3:B:414:LEU:HA	3:B:425:HIS:HD2	1.65	0.61
3:B:838:VAL:HG12	3:B:839:THR:N	2.14	0.61
3:B:1069:TRP:HE1	3:B:1088:LEU:HB3	1.64	0.61
3:B:1069:TRP:HD1	3:B:1088:LEU:HD22	1.64	0.61
4:D:24:PHE:HZ	9:L:80:THR:HA	1.66	0.61
5:E:17:GLU:OE1	5:E:25:ILE:HD12	2.01	0.61
10:N:20:SER:O	10:N:24:ARG:HG3	2.01	0.61
11:P:26:CYS:CB	11:P:27:PRO:HD2	2.28	0.61
1:Q:522:GLN:HE21	9:X:33:ARG:HD3	1.66	0.61
1:Q:723:ASN:C	1:Q:723:ASN:HD22	2.02	0.61

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:103:GLY:HA3	2:G:300:VAL:HG13	1.81	0.61
2:G:109:GLU:OE2	2:G:117:PRO:HA	2.01	0.61
3:R:325:LEU:HD12	3:R:328:GLY:HA2	1.82	0.61
3:R:555:VAL:HA	3:R:567:HIS:O	2.01	0.61
3:R:640:LEU:HD22	3:R:641:GLU:H	1.64	0.61
3:R:1079:CYS:O	3:R:1081:ILE:N	2.28	0.61
1:A:334:ILE:HG22	1:A:482:VAL:HG11	1.81	0.60
1:A:485:ASN:HD21	3:B:1039:PHE:HE2	1.48	0.60
3:B:403:TRP:C	3:B:404:VAL:CG2	2.68	0.60
3:B:658:PRO:C	3:B:660:HIS:H	2.03	0.60
3:B:814:VAL:HG22	3:B:834:ASP:HA	1.83	0.60
3:B:922:GLY:O	3:B:926:GLU:HB2	2.01	0.60
4:D:258:LYS:O	4:D:261:VAL:HG22	2.02	0.60
3:R:437:GLN:HB3	3:R:438:PRO:CD	2.23	0.60
4:S:39:MET:HE3	4:S:72:ALA:HB1	1.83	0.60
4:S:101:GLU:OE1	4:S:138:LYS:HD2	2.01	0.60
10:Y:10:CYS:HB3	10:Y:44:CYS:SG	2.42	0.60
1:A:249:LEU:HD13	1:A:266:TRP:CZ3	2.36	0.60
1:A:416:ILE:HG12	1:A:477:LYS:HB2	1.83	0.60
1:A:488:THR:CG2	1:A:490:ARG:H	2.14	0.60
1:A:644:PHE:HA	1:A:724:PHE:CE2	2.34	0.60
1:A:764:ARG:O	1:A:766:LEU:N	2.35	0.60
2:C:115:LYS:HD3	2:C:278:ARG:HB3	1.83	0.60
3:B:723:ILE:HB	3:B:907:ASP:OD2	2.02	0.60
3:B:881:ARG:HH11	3:B:989:TYR:CB	2.14	0.60
1:Q:239:LEU:HD12	1:Q:276:TYR:CE1	2.36	0.60
1:Q:708:ARG:O	1:Q:711:ALA:HB3	2.02	0.60
2:G:390:MET:SD	5:T:58:ILE:N	2.74	0.60
3:R:173:LEU:HA	3:R:333:ASP:OD2	2.01	0.60
3:R:295:LYS:C	3:R:296:TYR:HD1	2.05	0.60
3:R:463:ASN:HB3	3:R:467:VAL:HG12	1.83	0.60
3:R:922:GLY:O	3:R:926:GLU:N	2.30	0.60
6:U:16:VAL:C	6:U:18:LYS:H	2.05	0.60
9:X:35:ILE:HD11	9:X:75:ASN:ND2	2.15	0.60
1:A:488:THR:OG1	1:A:495:ILE:HB	2.00	0.60
1:A:847:GLN:HG2	2:C:318:ASP:OD1	2.01	0.60
2:C:115:LYS:HB2	2:C:278:ARG:CG	2.31	0.60
2:C:337:GLU:OE2	2:C:339:ASN:ND2	2.34	0.60
2:C:393:ILE:CG2	2:C:395:ARG:HH21	2.11	0.60
3:B:558:ILE:HG12	3:B:567:HIS:CD2	2.36	0.60
3:B:1107:MET:C	3:B:1108:ILE:HD12	2.22	0.60

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:23:GLU:O	9:L:27:LEU:HD13	2.01	0.60
10:N:39:GLY:O	10:N:40:VAL:HG23	2.02	0.60
1:Q:522:GLN:HG2	9:X:40:PHE:CE1	2.36	0.60
3:R:98:LEU:HD11	3:R:100:MET:CG	2.32	0.60
3:R:414:LEU:HA	3:R:425:HIS:CD2	2.36	0.60
3:R:738:ILE:HG23	3:R:888:ILE:HA	1.81	0.60
3:R:803:GLU:HG2	3:R:846:ILE:HG13	1.83	0.60
3:R:1069:TRP:CZ3	3:R:1077:TYR:HB2	2.36	0.60
5:T:31:ARG:O	5:T:33:GLN:N	2.33	0.60
8:W:70:ARG:C	8:W:72:GLY:H	2.05	0.60
2:C:57:LYS:HE3	2:C:57:LYS:CA	2.28	0.60
3:B:348:ASP:OD2	3:B:348:ASP:N	2.33	0.60
3:B:800:PRO:HD3	3:B:850:VAL:HG23	1.84	0.60
10:N:3:ILE:HG12	10:N:18:TRP:CG	2.36	0.60
1:Q:573:ARG:NH2	1:Q:721:PRO:HB3	2.17	0.60
3:R:63:ILE:HD11	3:R:98:LEU:HD23	1.82	0.60
4:S:50:ASN:HD22	10:Y:64:ARG:HD2	1.66	0.60
4:S:98:ILE:HD11	4:S:114:ILE:CG2	2.27	0.60
4:S:183:CYS:SG	14:S:1001:F3S:S4	3.00	0.60
6:U:88:VAL:HG12	6:U:89:MET:H	1.67	0.60
7:V:64:ARG:NH2	8:W:12:ASP:OD1	2.35	0.60
2:C:134:ARG:O	2:C:138:LEU:HD12	2.02	0.60
3:B:28:LEU:HG	3:B:122:MET:CE	2.31	0.60
3:B:82:PRO:HG2	3:B:143:GLU:OE1	2.01	0.60
3:B:102:PRO:HG2	3:B:108:GLU:OE2	2.02	0.60
3:B:602:ILE:CG2	3:B:603:THR:N	2.64	0.60
3:B:954:GLN:HA	3:B:957:ILE:CD1	2.27	0.60
8:K:70:ARG:C	8:K:72:GLY:H	2.05	0.60
9:L:7:LYS:H	9:L:14:GLU:HB3	1.66	0.60
1:Q:690:ARG:HD2	1:Q:694:GLU:OE1	2.01	0.60
1:Q:853:ASP:OD1	1:Q:864:LYS:HD3	2.00	0.60
3:R:373:LYS:HG3	3:R:375:ARG:HB2	1.83	0.60
3:R:488:THR:HG21	3:R:549:ILE:HD11	1.83	0.60
3:R:855:THR:CB	3:R:857:GLU:HG2	2.31	0.60
3:R:870:ARG:CZ	3:R:996:MET:SD	2.89	0.60
3:R:971:TYR:CE2	3:R:978:LYS:HB3	2.37	0.60
6:U:87:LEU:HD23	6:U:88:VAL:O	2.01	0.60
1:A:608:PRO:O	1:A:609:GLU:HG2	2.01	0.60
1:A:864:LYS:HE3	2:C:32:LEU:CD1	2.32	0.60
3:B:20:SER:O	3:B:21:LYS:HG2	2.02	0.60
3:B:70:VAL:HG11	3:B:80:ILE:HG21	1.84	0.60

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:111:PRO:O	3:B:112:GLU:HB3	2.02	0.60
3:B:243:SER:HB2	3:B:246:PRO:HG3	1.82	0.60
3:B:414:LEU:HA	3:B:425:HIS:CD2	2.37	0.60
3:B:679:LEU:HD23	3:B:716:ARG:HD3	1.83	0.60
3:B:781:ARG:CG	3:B:782:GLY:N	2.65	0.60
3:B:932:TYR:O	3:B:933:ALA:HB2	2.01	0.60
4:D:101:GLU:OE1	4:D:138:LYS:HD2	2.01	0.60
8:K:38:ALA:HB1	8:K:42:GLN:HE22	1.67	0.60
1:Q:13:ILE:HD11	1:Q:86:LEU:HD13	1.82	0.60
1:Q:363:GLN:O	1:Q:366:ILE:HG23	2.01	0.60
2:G:261:VAL:O	2:G:261:VAL:HG12	2.02	0.60
2:G:329:ILE:CA	2:G:334:VAL:HG12	2.28	0.60
3:R:242:VAL:CA	3:R:316:ALA:HB1	2.24	0.60
3:R:246:PRO:HG2	3:R:249:GLN:CG	2.29	0.60
3:R:963:LEU:HD22	4:S:208:GLU:HG3	1.83	0.60
8:W:63:SER:C	8:W:65:ALA:N	2.54	0.60
9:X:18:GLU:HG3	9:X:52:LYS:HG2	1.82	0.60
10:Y:30:ASN:O	10:Y:34:VAL:HG23	2.02	0.60
10:Y:42:ARG:O	10:Y:46:ARG:HB2	2.01	0.60
10:Y:43:TYR:HA	10:Y:46:ARG:CB	2.31	0.60
1:A:299:ALA:HB1	2:C:351:VAL:HG11	1.82	0.60
1:A:742:GLN:HB2	3:B:919:MET:HE3	1.82	0.60
2:C:355:LEU:HD22	3:B:1109:ILE:HD11	1.83	0.60
1:Q:30:PRO:HB2	1:Q:244:ARG:HG3	1.83	0.60
1:Q:249:LEU:HD13	1:Q:266:TRP:CZ3	2.35	0.60
1:Q:827:LEU:HD23	2:G:316:ILE:HD13	1.84	0.60
1:Q:833:GLU:HG3	1:Q:839:ARG:HG3	1.82	0.60
3:R:59:ARG:NH2	3:R:107:ILE:HD12	2.16	0.60
3:R:63:ILE:CG1	3:R:98:LEU:HD23	2.32	0.60
3:R:64:ARG:HG2	3:R:64:ARG:NH1	2.16	0.60
3:R:676:ALA:HB1	3:R:718:ALA:HB1	1.84	0.60
10:Y:39:GLY:O	10:Y:40:VAL:HG23	2.02	0.60
3:B:576:ARG:HD3	3:B:615:TYR:HD2	1.67	0.60
3:B:930:GLY:HA3	3:B:987:VAL:HB	1.84	0.60
4:D:13:ILE:HD11	4:D:238:PRO:HB2	1.84	0.60
5:E:31:ARG:O	5:E:33:GLN:N	2.33	0.60
5:E:50:ASN:HB2	5:E:73:ASP:OD2	2.01	0.60
10:N:24:ARG:HD2	10:N:34:VAL:HG13	1.82	0.60
1:Q:245:ILE:CD1	1:Q:268:LEU:HD13	2.31	0.60
1:Q:276:TYR:CD2	1:Q:277:PHE:CE1	2.87	0.60
1:Q:775:SER:HB3	1:Q:777:GLU:HG2	1.84	0.60

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:389:THR:CG2	8:W:77:THR:HB	2.31	0.60
3:R:419:TRP:HZ3	3:R:712:GLY:HA3	1.66	0.60
3:R:518:SER:HB3	3:R:564:ASN:HD21	1.66	0.60
3:R:853:THR:CG2	3:R:854:GLU:H	2.07	0.60
4:S:4:ASN:O	4:S:15:LEU:HA	2.01	0.60
6:U:59:LEU:HD13	6:U:69:ARG:HG2	1.82	0.60
8:W:35:VAL:HG23	8:W:36:ILE:N	2.17	0.60
1:A:377:TYR:OH	1:A:385:ARG:HD2	2.01	0.60
1:A:412:ILE:O	1:A:415:ASP:HB2	2.02	0.60
2:C:392:PRO:HG3	5:E:68:HIS:CE1	2.37	0.60
3:B:6:THR:HB	3:B:9:GLU:CB	2.31	0.60
3:B:701:PRO:HG3	3:B:708:LEU:HD11	1.82	0.60
3:B:729:PHE:C	3:B:731:GLY:H	2.05	0.60
3:B:738:ILE:HG23	3:B:888:ILE:HA	1.84	0.60
3:B:741:ASN:OD1	3:B:743:SER:N	2.34	0.60
3:B:906:PRO:HD3	3:B:985:PHE:HZ	1.66	0.60
4:D:175:ASN:HA	4:D:195:LEU:CD2	2.30	0.60
1:Q:525:LEU:HG	9:X:40:PHE:HZ	1.66	0.60
1:Q:604:GLY:O	1:Q:606:GLN:N	2.34	0.60
1:Q:691:THR:CG2	1:Q:692:LEU:HD12	2.32	0.60
2:G:292:ILE:HG23	2:G:293:ILE:N	2.16	0.60
3:R:6:THR:HB	3:R:9:GLU:HB3	1.84	0.60
3:R:204:ARG:HB2	3:R:213:SER:HG	1.64	0.60
3:R:377:ARG:O	3:R:378:LYS:HB2	2.00	0.60
3:R:393:ARG:HH21	3:R:403:TRP:HH2	1.44	0.60
3:R:789:TYR:O	3:R:791:LEU:N	2.35	0.60
3:R:932:TYR:O	3:R:933:ALA:HB2	2.02	0.60
4:S:38:ILE:HD12	4:S:39:MET:N	2.15	0.60
5:T:15:PRO:HG2	8:W:45:MET:HB3	1.83	0.60
6:U:72:LEU:C	6:U:74:SER:H	2.05	0.60
1:A:4:LYS:HD2	3:B:1089:PHE:CB	2.31	0.60
1:A:648:LEU:O	1:A:651:VAL:HG12	2.01	0.60
1:A:763:THR:C	1:A:764:ARG:HG2	2.21	0.60
2:C:262:LEU:HD22	2:C:269:VAL:CG1	2.30	0.60
3:B:764:LYS:HD3	3:B:815:SER:CA	2.32	0.60
5:E:145:ARG:O	5:E:163:THR:HG22	2.01	0.60
2:G:15:GLU:HA	2:G:18:LYS:CD	2.31	0.60
2:G:28:ILE:HD12	8:W:18:VAL:CG2	2.31	0.60
2:G:311:ARG:HD3	2:G:311:ARG:H	1.65	0.60
3:R:6:THR:N	3:R:9:GLU:OE2	2.35	0.60
3:R:80:ILE:CD1	3:R:92:TYR:HA	2.31	0.60

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:280:GLN:O	3:R:285:ARG:NH1	2.34	0.60
3:R:291:GLN:HB3	3:R:295:LYS:HE2	1.83	0.60
3:R:699:GLN:NE2	10:Y:48:MET:HE3	2.17	0.60
3:R:759:SER:HB3	3:R:863:LYS:HA	1.84	0.60
3:R:1036:LEU:HD12	3:R:1045:LEU:HB2	1.82	0.60
3:R:1069:TRP:HD1	3:R:1088:LEU:HD22	1.65	0.60
4:S:171:GLU:O	4:S:217:ILE:HG23	2.01	0.60
5:T:126:ILE:CD1	5:T:137:GLN:HG2	2.32	0.60
1:A:363:GLN:O	1:A:366:ILE:HG23	2.01	0.59
2:C:390:MET:HB2	5:E:56:GLU:CG	2.28	0.59
3:B:6:THR:N	3:B:9:GLU:OE2	2.34	0.59
3:B:63:ILE:CG1	3:B:98:LEU:HD23	2.32	0.59
3:B:628:LEU:HD23	3:B:628:LEU:N	2.08	0.59
1:Q:288:LYS:HG2	1:Q:294:PRO:CA	2.31	0.59
1:Q:543:ARG:HG2	1:Q:544:GLU:H	1.67	0.59
1:Q:831:ARG:HH21	2:G:385:MET:CG	2.15	0.59
2:G:109:GLU:O	2:G:113:ALA:HA	2.02	0.59
3:R:906:PRO:HD3	3:R:985:PHE:HZ	1.67	0.59
3:R:1061:CYS:HB3	3:R:1065:GLY:HA2	1.84	0.59
4:S:26:ASN:O	4:S:30:ARG:HG3	2.02	0.59
1:A:427:ARG:N	2:C:76:GLN:HE22	2.00	0.59
1:A:573:ARG:NH2	1:A:721:PRO:HB3	2.17	0.59
1:A:827:LEU:HD23	2:C:316:ILE:HD13	1.82	0.59
2:C:35:LEU:O	2:C:39:LYS:HG3	2.02	0.59
2:C:391:ARG:CB	8:K:75:PRO:HB2	2.32	0.59
3:B:206:LYS:HE3	3:B:220:LYS:NZ	2.17	0.59
3:B:557:HIS:ND1	3:B:566:VAL:HG22	2.17	0.59
3:B:690:THR:HG22	3:B:691:ARG:CG	2.32	0.59
4:D:108:MET:HE1	10:N:2:LEU:HD21	1.83	0.59
5:E:17:GLU:HB3	5:E:20:LYS:HD2	1.83	0.59
5:E:63:ASP:OD2	5:E:65:ALA:HB3	2.02	0.59
1:Q:206:TRP:CH2	1:Q:209:LEU:HD23	2.37	0.59
1:Q:276:TYR:CD2	1:Q:277:PHE:HE1	2.21	0.59
1:Q:362:ARG:O	1:Q:366:ILE:HG22	2.02	0.59
1:Q:377:TYR:HE1	1:Q:385:ARG:HG2	1.67	0.59
3:R:729:PHE:CD2	3:R:730:THR:HG23	2.36	0.59
7:V:18:PRO:CB	7:V:67:ARG:HA	2.32	0.59
8:W:34:ARG:O	8:W:34:ARG:HD2	2.01	0.59
1:A:525:LEU:CD1	1:A:530:VAL:HG11	2.33	0.59
1:A:828:SER:C	1:A:830:LEU:H	2.05	0.59
1:A:874:ARG:NE	2:C:53:ASP:HB3	2.04	0.59

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:63:ILE:HG13	3:B:98:LEU:CB	2.32	0.59
3:B:210:PHE:HE2	3:B:319:ILE:HG23	1.67	0.59
3:B:680:TYR:HE1	3:B:687:ARG:HH12	1.48	0.59
3:B:1083:GLY:C	3:B:1085:LYS:H	2.05	0.59
4:D:27:ALA:HB1	9:L:23:THR:HG22	1.84	0.59
10:N:43:TYR:HA	10:N:46:ARG:CB	2.30	0.59
1:Q:238:LYS:HZ2	1:Q:276:TYR:C	2.05	0.59
1:Q:524:ILE:CG2	1:Q:634:VAL:HG13	2.32	0.59
1:Q:827:LEU:CD1	1:Q:830:LEU:HD12	2.33	0.59
3:R:291:GLN:C	3:R:293:ILE:H	2.05	0.59
3:R:576:ARG:HD3	3:R:615:TYR:HD2	1.65	0.59
3:R:589:VAL:HG12	3:R:590:THR:N	2.16	0.59
3:R:729:PHE:C	3:R:731:GLY:H	2.05	0.59
3:R:849:LEU:HB3	3:R:865:ARG:HG2	1.84	0.59
8:W:21:SER:O	8:W:24:GLN:HG3	2.02	0.59
1:A:64:THR:O	1:A:66:GLY:N	2.36	0.59
1:A:376:ASN:N	1:A:376:ASN:ND2	2.51	0.59
1:A:552:ILE:HD11	1:A:593:LEU:HD12	1.84	0.59
2:C:49:ASP:O	2:C:52:PHE:N	2.35	0.59
3:B:52:GLU:HG3	3:B:56:LEU:CD2	2.32	0.59
3:B:164:GLN:CG	3:B:349:LEU:HD21	2.32	0.59
3:B:591:ILE:HD11	3:B:612:LYS:HZ3	1.68	0.59
4:D:52:PRO:HB2	10:N:56:ILE:HD11	1.82	0.59
4:D:171:GLU:O	4:D:217:ILE:HG23	2.01	0.59
6:F:47:CYS:HB2	6:F:52:ALA:HB2	1.84	0.59
7:H:23:LEU:HB3	7:H:28:ALA:HB2	1.84	0.59
1:Q:64:THR:HG22	1:Q:65:LEU:H	1.68	0.59
1:Q:609:GLU:HB3	1:Q:614:TRP:CE2	2.37	0.59
3:R:560:THR:CG2	3:R:561:ASP:N	2.64	0.59
3:R:1009:VAL:HG12	3:R:1016:PRO:HA	1.83	0.59
3:R:1040:GLY:HA3	8:W:30:TYR:HE2	1.67	0.59
1:A:522:GLN:HE21	9:L:33:ARG:HD3	1.67	0.59
1:A:609:GLU:HB3	1:A:614:TRP:CE2	2.38	0.59
1:A:615:LEU:O	1:A:619:TYR:HB2	2.03	0.59
3:B:153:ILE:HG22	3:B:156:GLY:HA2	1.83	0.59
3:B:183:ILE:HG13	3:B:206:LYS:HB3	1.83	0.59
5:E:88:GLU:H	5:E:99:VAL:CG1	2.15	0.59
11:P:17:GLN:C	11:P:19:LYS:H	2.05	0.59
1:Q:284:LEU:N	1:Q:285:PRO:HD2	2.17	0.59
1:Q:417:VAL:HG13	1:Q:465:HIS:O	2.03	0.59
1:Q:446:ASN:O	1:Q:448:LEU:N	2.35	0.59

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:262:LEU:HD22	2:G:269:VAL:CG1	2.31	0.59
3:R:978:LYS:HZ3	4:S:205:LEU:HD22	1.67	0.59
3:R:1009:VAL:HB	3:R:1014:ARG:O	2.02	0.59
7:V:65:ILE:H	7:V:65:ILE:CD1	2.15	0.59
1:A:377:TYR:H	1:A:388:LEU:CB	2.16	0.59
1:A:487:ILE:HD12	1:A:487:ILE:N	2.18	0.59
1:A:604:GLY:O	1:A:606:GLN:N	2.35	0.59
2:C:277:ILE:C	2:C:279:GLU:N	2.55	0.59
2:C:361:GLY:O	2:C:362:ASP:O	2.20	0.59
3:B:63:ILE:HD11	3:B:98:LEU:HD23	1.85	0.59
3:B:295:LYS:C	3:B:296:TYR:HD1	2.06	0.59
3:B:1009:VAL:HB	3:B:1014:ARG:O	2.03	0.59
4:D:247:LYS:HA	4:D:250:ILE:HD12	1.84	0.59
1:Q:491:TYR:HB2	1:Q:607:GLN:NE2	2.16	0.59
1:Q:768:HIS:NE2	3:R:450:TRP:CZ2	2.68	0.59
2:G:39:LYS:O	2:G:43:VAL:HG23	2.03	0.59
3:R:89:ASN:HD21	3:R:863:LYS:NZ	2.01	0.59
3:R:814:VAL:HG22	3:R:834:ASP:HA	1.83	0.59
7:V:23:LEU:CD1	7:V:62:ILE:HG12	2.33	0.59
8:W:90:LEU:HD23	8:W:90:LEU:H	1.67	0.59
1:A:418:LEU:HD11	3:B:1044:LEU:HD11	1.85	0.59
1:A:827:LEU:CD1	1:A:830:LEU:HD12	2.33	0.59
3:B:80:ILE:CD1	3:B:92:TYR:HA	2.33	0.59
3:B:355:ARG:HH11	3:B:355:ARG:CB	2.15	0.59
3:B:475:GLN:HG2	3:B:476:ILE:N	2.15	0.59
3:B:640:LEU:HD22	3:B:641:GLU:H	1.60	0.59
3:B:699:GLN:HE22	10:N:48:MET:HE3	1.66	0.59
4:D:97:TYR:C	4:D:98:ILE:HD12	2.23	0.59
6:F:87:LEU:HD23	6:F:88:VAL:O	2.03	0.59
1:Q:371:LYS:HD3	1:Q:372:TRP:N	2.17	0.59
2:G:12:TYR:O	2:G:13:LEU:HD23	2.02	0.59
3:R:781:ARG:CG	3:R:782:GLY:N	2.65	0.59
3:R:1000:LYS:O	3:R:1001:LEU:HB2	2.02	0.59
6:U:14:TYR:O	6:U:18:LYS:HG3	2.03	0.59
1:A:517:THR:HG22	1:A:518:LYS:N	2.17	0.59
3:B:296:TYR:HD1	3:B:296:TYR:N	2.01	0.59
4:D:98:ILE:CD1	4:D:114:ILE:HG23	2.29	0.59
6:F:35:GLN:O	6:F:38:TYR:HB2	2.02	0.59
1:Q:23:SER:O	1:Q:24:VAL:HG13	2.02	0.59
1:Q:293:ARG:H	1:Q:293:ARG:HD2	1.68	0.59
2:G:268:ASP:OD1	2:G:270:ALA:HB3	2.03	0.59

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:284:PHE:CE2	7:V:14:HIS:HB2	2.37	0.59
3:R:182:ASN:HD22	3:R:182:ASN:N	1.99	0.59
5:T:30:LEU:HD11	5:T:72:PHE:CD2	2.38	0.59
1:A:23:SER:O	1:A:24:VAL:HG13	2.03	0.59
1:A:876:VAL:C	1:A:878:TRP:H	2.05	0.59
2:C:297:ILE:C	2:C:299:LYS:H	2.04	0.59
3:B:515:LEU:N	3:B:517:TRP:CE3	2.71	0.59
3:B:805:LYS:HG3	3:B:844:MET:HB2	1.85	0.59
3:B:1058:ILE:O	3:B:1091:VAL:HG12	2.03	0.59
4:D:114:ILE:HD12	4:D:123:PRO:HG2	1.84	0.59
4:D:194:LYS:O	4:D:196:SER:N	2.35	0.59
8:K:70:ARG:HB3	8:K:70:ARG:NH1	2.18	0.59
1:Q:350:PRO:HD3	1:Q:468:GLN:NE2	2.17	0.59
1:Q:487:ILE:HD12	1:Q:487:ILE:N	2.18	0.59
3:R:417:THR:O	3:R:418:ASN:HB3	2.03	0.59
3:R:735:GLU:O	3:R:736:ASP:C	2.41	0.59
3:R:814:VAL:CG1	3:R:832:LYS:HB3	2.32	0.59
3:R:902:LYS:CB	10:Y:42:ARG:HD3	2.33	0.59
3:R:954:GLN:HA	3:R:957:ILE:CD1	2.31	0.59
4:S:98:ILE:HG13	4:S:114:ILE:HA	1.85	0.59
4:S:175:ASN:HA	4:S:195:LEU:CD2	2.31	0.59
1:A:708:ARG:HG3	1:A:709:SER:N	2.18	0.59
2:C:391:ARG:H	2:C:392:PRO:HD3	1.68	0.59
3:B:795:ASN:HD21	11:P:36:MET:CE	2.14	0.59
4:D:175:ASN:CA	4:D:195:LEU:HD21	2.33	0.59
4:D:177:GLU:HB2	4:D:178:LYS:HZ3	1.66	0.59
1:Q:64:THR:O	1:Q:66:GLY:N	2.36	0.59
2:G:241:ILE:HG22	2:G:242:VAL:H	1.68	0.59
2:G:355:LEU:HD22	3:R:1109:ILE:HD11	1.85	0.59
2:G:392:PRO:HB3	5:T:22:LEU:CD1	2.31	0.59
3:R:515:LEU:N	3:R:517:TRP:CE3	2.71	0.59
3:R:630:PRO:O	3:R:633:LEU:HB3	2.03	0.59
5:T:168:TYR:O	5:T:175:ILE:HD13	2.03	0.59
9:X:87:ILE:CG2	9:X:88:LYS:N	2.66	0.59
1:A:244:ARG:O	1:A:248:ARG:HG3	2.02	0.58
1:A:262:ILE:CG1	1:A:266:TRP:HE1	2.16	0.58
1:A:317:ARG:NH1	3:B:1018:GLU:HG3	2.18	0.58
1:A:362:ARG:O	1:A:366:ILE:HG22	2.04	0.58
1:A:412:ILE:HD12	1:A:412:ILE:O	2.03	0.58
1:A:532:ILE:HD11	9:L:56:LYS:CD	2.31	0.58
1:A:723:ASN:HD22	1:A:724:PHE:N	2.00	0.58

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:291:GLN:HB3	3:B:295:LYS:HE2	1.84	0.58
3:B:294:ASP:HB3	3:B:303:THR:O	2.02	0.58
3:B:560:THR:CG2	3:B:561:ASP:N	2.66	0.58
3:B:702:LEU:HB2	3:B:721:ASN:CG	2.22	0.58
3:B:727:MET:HE3	3:B:898:PRO:CG	2.32	0.58
4:D:38:ILE:HD12	4:D:39:MET:N	2.18	0.58
3:R:795:ASN:HD21	11:Z:36:MET:CE	2.16	0.58
5:T:2:TYR:CZ	6:U:41:LEU:HD21	2.38	0.58
5:T:82:GLN:HA	5:T:145:ARG:CG	2.33	0.58
7:V:45:ILE:CB	7:V:79:ARG:HB3	2.33	0.58
8:W:70:ARG:HB3	8:W:70:ARG:NH1	2.18	0.58
11:Z:8:LYS:HD3	11:Z:13:PHE:HB3	1.85	0.58
1:A:409:ARG:HH21	1:A:412:ILE:CG1	2.16	0.58
1:A:491:TYR:HB2	1:A:607:GLN:NE2	2.18	0.58
1:A:870:ARG:CZ	2:C:57:LYS:O	2.52	0.58
2:C:28:ILE:HD12	8:K:18:VAL:HG23	1.84	0.58
3:B:281:LYS:O	3:B:285:ARG:HG3	2.03	0.58
3:B:729:PHE:O	3:B:731:GLY:N	2.36	0.58
3:B:1012:LEU:O	3:B:1095:TYR:HE2	1.86	0.58
3:B:1079:CYS:O	3:B:1081:ILE:N	2.28	0.58
1:Q:4:LYS:HG2	1:Q:5:ASN:H	1.66	0.58
1:Q:507:TYR:HH	1:Q:727:VAL:HG13	1.68	0.58
1:Q:552:ILE:HD11	1:Q:593:LEU:HD12	1.85	0.58
2:G:286:ILE:HD13	2:G:324:GLY:O	2.03	0.58
3:R:154:VAL:HG21	3:R:399:ALA:HB2	1.85	0.58
3:R:159:ARG:HD3	3:R:399:ALA:HA	1.83	0.58
3:R:1079:CYS:C	3:R:1081:ILE:H	2.05	0.58
7:V:81:VAL:O	7:V:82:ILE:HG12	2.03	0.58
2:C:28:ILE:HB	8:K:18:VAL:HG21	1.84	0.58
2:C:377:HIS:ND1	2:C:378:PRO:HD2	2.17	0.58
3:B:173:LEU:HA	3:B:333:ASP:OD2	2.02	0.58
3:B:677:LEU:HD12	3:B:992:LYS:HD3	1.84	0.58
3:B:735:GLU:O	3:B:736:ASP:C	2.41	0.58
3:B:814:VAL:CG1	3:B:832:LYS:HB3	2.32	0.58
6:F:18:LYS:HE2	6:F:41:LEU:CB	2.28	0.58
1:Q:258:PRO:C	1:Q:260:LEU:H	2.06	0.58
1:Q:541:ALA:HB1	1:Q:542:PRO:CD	2.33	0.58
1:Q:820:GLN:O	1:Q:824:ILE:HG12	2.03	0.58
1:Q:825:ASN:O	1:Q:826:ALA:C	2.41	0.58
2:G:386:VAL:HG13	8:W:34:ARG:HG2	1.85	0.58
3:R:52:GLU:HG3	3:R:56:LEU:CD2	2.32	0.58

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:96:LEU:O	3:R:115:TYR:HA	2.03	0.58
3:R:558:ILE:HG12	3:R:567:HIS:HD2	1.68	0.58
3:R:982:ARG:O	3:R:983:ILE:CG1	2.45	0.58
5:T:117:THR:O	5:T:118:LEU:HD23	2.03	0.58
1:A:828:SER:HB2	2:C:72:ILE:CD1	2.32	0.58
2:C:119:THR:N	2:C:120:PRO:HD3	2.18	0.58
2:C:268:ASP:OD1	2:C:270:ALA:HB3	2.04	0.58
2:C:390:MET:SD	5:E:58:ILE:N	2.77	0.58
2:C:390:MET:CE	5:E:66:THR:HG23	2.34	0.58
3:B:8:ASP:O	3:B:12:ARG:HG2	2.03	0.58
3:B:98:LEU:HD11	3:B:100:MET:HG3	1.86	0.58
3:B:358:PHE:O	3:B:362:VAL:HG23	2.03	0.58
4:D:4:ASN:O	4:D:15:LEU:HA	2.02	0.58
9:L:11:ASN:O	9:L:58:LEU:HD12	2.03	0.58
1:Q:4:LYS:HD2	3:R:1089:PHE:HB3	1.85	0.58
1:Q:336:GLU:OE2	1:Q:436:ARG:HD3	2.03	0.58
1:Q:378:VAL:HG12	1:Q:388:LEU:HD12	1.86	0.58
3:R:244:LEU:HD13	3:R:500:VAL:CG1	2.34	0.58
3:R:247:GLU:HA	3:R:250:ASN:ND2	2.19	0.58
3:R:294:ASP:HB3	3:R:303:THR:O	2.03	0.58
3:R:361:PHE:C	3:R:361:PHE:CD2	2.76	0.58
4:S:148:GLY:HA3	4:S:156:PHE:CE1	2.38	0.58
5:T:18:PHE:CB	8:W:48:PRO:HD2	2.33	0.58
5:T:50:ASN:HB2	5:T:73:ASP:OD2	2.03	0.58
5:T:179:LYS:HZ3	6:U:81:ASP:HB2	1.66	0.58
8:W:46:GLY:O	8:W:47:ALA:O	2.21	0.58
1:A:12:GLY:HA2	2:C:358:ALA:O	2.04	0.58
1:A:672:VAL:HG11	1:A:776:PRO:HD3	1.86	0.58
2:C:127:THR:HA	2:C:266:GLY:O	2.02	0.58
3:B:63:ILE:CD1	3:B:98:LEU:HD23	2.34	0.58
3:B:81:SER:OG	3:B:141:ILE:HG23	2.03	0.58
3:B:248:VAL:O	3:B:251:GLU:HB2	2.03	0.58
3:B:298:LEU:C	3:B:300:HIS:H	2.06	0.58
3:B:448:THR:C	3:B:450:TRP:H	2.07	0.58
1:Q:79:ARG:HB2	1:Q:266:TRP:CZ3	2.38	0.58
1:Q:632:PHE:HA	1:Q:635:PHE:CE1	2.39	0.58
1:Q:870:ARG:CZ	2:G:57:LYS:O	2.51	0.58
3:R:338:TYR:CZ	3:R:341:LYS:NZ	2.67	0.58
3:R:600:GLY:C	3:R:602:ILE:N	2.57	0.58
3:R:654:ILE:HG22	3:R:881:ARG:HG2	1.85	0.58
3:R:723:ILE:HB	3:R:907:ASP:OD2	2.04	0.58

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:353:ILE:HD11	1:A:407:ILE:HG23	1.84	0.58
1:A:864:LYS:HE3	2:C:32:LEU:HD11	1.84	0.58
1:A:872:PHE:HA	1:A:876:VAL:HB	1.84	0.58
2:C:245:LYS:HD2	2:C:250:ILE:HD12	1.86	0.58
3:B:388:ASP:C	3:B:390:VAL:N	2.55	0.58
3:B:881:ARG:HH11	3:B:989:TYR:HB3	1.68	0.58
3:B:1079:CYS:C	3:B:1081:ILE:H	2.04	0.58
4:D:45:TYR:HD1	11:P:44:ILE:HG12	1.68	0.58
4:D:128:ILE:HG12	10:N:16:ASP:HB3	1.86	0.58
4:D:159:VAL:HG22	4:D:160:SER:N	2.18	0.58
5:E:53:THR:O	5:E:70:VAL:HG13	2.04	0.58
6:F:18:LYS:CE	6:F:41:LEU:HB3	2.31	0.58
9:L:66:LYS:O	9:L:70:LEU:HD13	2.03	0.58
9:L:70:LEU:HA	9:L:73:ILE:HB	1.85	0.58
1:Q:376:ASN:N	1:Q:376:ASN:ND2	2.48	0.58
1:Q:412:ILE:HD12	1:Q:412:ILE:O	2.03	0.58
1:Q:425:LEU:O	1:Q:426:HIS:HB2	2.02	0.58
1:Q:541:ALA:CB	1:Q:542:PRO:CD	2.82	0.58
3:R:106:ASN:O	3:R:108:GLU:HG3	2.04	0.58
3:R:153:ILE:HG22	3:R:156:GLY:HA2	1.85	0.58
3:R:296:TYR:HD1	3:R:296:TYR:N	2.01	0.58
3:R:448:THR:C	3:R:450:TRP:H	2.06	0.58
3:R:518:SER:CB	3:R:564:ASN:HD22	2.16	0.58
3:R:713:TYR:OH	3:R:718:ALA:HB3	2.03	0.58
4:S:97:TYR:C	4:S:98:ILE:HD12	2.22	0.58
6:U:14:TYR:HE2	6:U:40:TYR:HH	1.50	0.58
7:V:63:ILE:HD12	7:V:63:ILE:N	2.18	0.58
1:A:499:ALA:HB3	3:B:734:MET:HE3	1.86	0.58
1:A:522:GLN:NE2	9:L:33:ARG:HD3	2.18	0.58
1:A:524:ILE:CG2	1:A:634:VAL:HG13	2.33	0.58
3:B:59:ARG:NH2	3:B:107:ILE:HD12	2.18	0.58
3:B:316:ALA:C	3:B:318:ALA:H	2.07	0.58
3:B:518:SER:CB	3:B:564:ASN:HD22	2.17	0.58
8:K:36:ILE:O	8:K:40:ALA:HB2	2.04	0.58
1:Q:355:PRO:HG2	1:Q:356:TRP:CE2	2.38	0.58
1:Q:812:ARG:HG3	2:G:86:THR:HG23	1.84	0.58
2:G:119:THR:N	2:G:120:PRO:HD3	2.18	0.58
3:R:1070:TYR:O	3:R:1071:ASP:O	2.22	0.58
9:X:66:LYS:O	9:X:70:LEU:HD13	2.04	0.58
11:Z:17:GLN:C	11:Z:19:LYS:H	2.06	0.58
1:A:4:LYS:HD2	3:B:1089:PHE:HB3	1.84	0.58

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:499:ALA:HB3	3:B:734:MET:CE	2.33	0.58
1:A:727:VAL:HG12	1:A:728:MET:N	2.19	0.58
1:A:749:GLN:CA	1:A:781:PHE:HA	2.33	0.58
1:A:877:GLY:C	3:R:377:ARG:HH12	2.07	0.58
2:C:321:THR:HG22	7:H:79:ARG:HH12	1.69	0.58
3:B:298:LEU:N	3:B:299:PRO:HD3	2.19	0.58
3:B:416:ARG:NH1	3:B:687:ARG:HH22	1.99	0.58
2:G:63:LEU:HD23	2:G:63:LEU:O	2.03	0.58
2:G:277:ILE:C	2:G:279:GLU:N	2.55	0.58
3:R:123:LEU:HD21	3:R:153:ILE:HD11	1.85	0.58
3:R:435:ARG:HH11	3:R:435:ARG:CG	2.17	0.58
3:R:769:GLN:O	3:R:770:GLU:CB	2.51	0.58
5:T:100:ASN:HD21	6:U:36:ARG:HD3	1.69	0.58
6:U:52:ALA:HA	6:U:55:VAL:CG2	2.34	0.58
1:A:427:ARG:H	2:C:76:GLN:NE2	2.00	0.58
1:A:507:TYR:O	1:A:508:LEU:HB2	2.04	0.58
2:C:390:MET:HE2	5:E:66:THR:HG23	1.86	0.58
3:B:247:GLU:HA	3:B:250:ASN:ND2	2.18	0.58
3:B:296:TYR:N	3:B:296:TYR:CD1	2.72	0.58
3:B:803:GLU:HG2	3:B:846:ILE:HG13	1.86	0.58
3:B:1033:ARG:HD2	3:B:1037:ILE:HD11	1.86	0.58
7:H:62:ILE:HD13	7:H:62:ILE:N	2.19	0.58
1:Q:77:LEU:HD13	1:Q:81:VAL:HG22	1.85	0.58
1:Q:490:ARG:HG2	1:Q:491:TYR:CD2	2.39	0.58
1:Q:837:THR:HG22	1:Q:838:VAL:N	2.19	0.58
2:G:103:GLY:HA2	2:G:106:ARG:HB3	1.85	0.58
2:G:115:LYS:HD2	2:G:276:ASN:ND2	2.18	0.58
3:R:116:ILE:HG23	3:R:361:PHE:CZ	2.38	0.58
3:R:1061:CYS:HB3	3:R:1065:GLY:CA	2.34	0.58
5:T:166:GLN:HB3	5:T:167:PRO:HD2	1.85	0.58
1:A:288:LYS:HG2	1:A:294:PRO:CA	2.33	0.58
1:A:293:ARG:HD2	1:A:293:ARG:H	1.69	0.58
1:A:452:PRO:HA	1:A:495:ILE:CD1	2.34	0.58
1:A:524:ILE:O	1:A:524:ILE:HG22	2.04	0.58
1:A:610:SER:O	1:A:613:HIS:HB3	2.03	0.58
2:C:356:ASP:O	2:C:360:ARG:HB2	2.03	0.58
3:B:6:THR:HB	3:B:9:GLU:HB3	1.86	0.58
3:B:253:PHE:N	3:B:254:PRO:CD	2.67	0.58
3:B:893:PRO:HG2	3:B:896:ASP:OD1	2.04	0.58
3:B:971:TYR:CE2	3:B:978:LYS:HB3	2.39	0.58
4:D:129:PRO:HG2	10:N:15:ALA:HB1	1.86	0.58

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:176:CYS:N	4:D:195:LEU:HD21	2.18	0.58
5:E:117:THR:O	5:E:118:LEU:HD23	2.04	0.58
6:F:35:GLN:HA	6:F:38:TYR:HD1	1.68	0.58
8:K:50:LEU:O	8:K:52:ASP:HB2	2.03	0.58
10:N:7:CYS:CB	10:N:45:CYS:SG	2.90	0.58
10:N:40:VAL:HG12	10:N:40:VAL:O	2.03	0.58
1:Q:481:LEU:CD2	1:Q:482:VAL:H	2.17	0.58
1:Q:831:ARG:HH21	2:G:385:MET:CB	2.17	0.58
1:Q:876:VAL:C	1:Q:878:TRP:N	2.58	0.58
3:R:253:PHE:N	3:R:254:PRO:CD	2.66	0.58
3:R:386:ARG:HB2	3:R:389:ILE:CD1	2.34	0.58
3:R:403:TRP:C	3:R:404:VAL:CG2	2.73	0.58
3:R:922:GLY:O	3:R:926:GLU:HB2	2.03	0.58
4:S:31:ALA:HA	4:S:35:TYR:CD2	2.39	0.58
5:T:147:ILE:CG1	5:T:163:THR:HB	2.34	0.58
6:U:18:LYS:HE2	6:U:41:LEU:CB	2.29	0.58
10:Y:21:PHE:HE2	10:Y:35:LEU:HD23	1.69	0.58
1:A:276:TYR:CD2	1:A:277:PHE:CE1	2.89	0.57
1:A:789:GLY:HA2	3:B:659:GLU:O	2.04	0.57
3:B:21:LYS:HA	3:B:25:ARG:NH1	2.19	0.57
3:B:167:LEU:O	3:B:341:LYS:HA	2.04	0.57
3:B:497:VAL:CG1	3:B:498:GLU:N	2.62	0.57
3:B:702:LEU:CD2	3:B:933:ALA:HB1	2.34	0.57
3:B:812:GLY:HA2	3:B:836:SER:CB	2.33	0.57
5:E:166:GLN:HB3	5:E:167:PRO:HD2	1.86	0.57
5:E:179:LYS:NZ	6:F:82:GLU:H	2.01	0.57
8:K:15:PHE:O	8:K:19:PHE:HB2	2.04	0.57
1:Q:409:ARG:NH2	1:Q:415:ASP:OD2	2.37	0.57
1:Q:499:ALA:HB3	3:R:734:MET:CE	2.34	0.57
1:Q:584:SER:OG	1:Q:585:TYR:N	2.37	0.57
1:Q:656:ASP:O	1:Q:659:LYS:HB2	2.04	0.57
3:R:658:PRO:C	3:R:660:HIS:H	2.07	0.57
3:R:881:ARG:NH1	3:R:989:TYR:CB	2.67	0.57
3:R:1046:LYS:C	3:R:1048:ARG:H	2.08	0.57
4:S:25:VAL:HG21	4:S:226:TYR:CD1	2.33	0.57
4:S:169:LYS:HE2	4:S:222:VAL:HG22	1.85	0.57
4:S:194:LYS:O	4:S:196:SER:N	2.37	0.57
5:T:17:GLU:OE1	5:T:25:ILE:HD12	2.04	0.57
1:A:372:TRP:HB3	1:A:373:PRO:HD3	1.84	0.57
1:A:543:ARG:HG2	1:A:544:GLU:H	1.68	0.57
1:A:567:ASN:N	1:A:599:ASP:OD2	2.36	0.57

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:672:VAL:HG13	1:A:700:ILE:CD1	2.28	0.57
2:C:321:THR:HB	2:C:322:ARG:HH11	1.69	0.57
3:B:158:GLU:OE2	3:B:416:ARG:NH1	2.36	0.57
3:B:300:HIS:O	3:B:301:LEU:C	2.42	0.57
3:B:457:GLU:OE1	3:B:652:ALA:HB2	2.05	0.57
3:B:1085:LYS:O	3:B:1086:SER:OG	2.17	0.57
4:D:206:CYS:O	4:D:207:GLU:HB2	2.03	0.57
6:F:14:TYR:O	6:F:18:LYS:HG3	2.03	0.57
8:K:34:ARG:O	8:K:34:ARG:HD2	2.04	0.57
8:K:63:SER:C	8:K:65:ALA:N	2.54	0.57
1:Q:431:MET:HE1	1:Q:482:VAL:HG13	1.86	0.57
2:G:134:ARG:O	2:G:138:LEU:HD12	2.04	0.57
3:R:160:VAL:HG21	3:R:426:LEU:HD23	1.86	0.57
5:T:127:ILE:HB	5:T:136:ILE:HG13	1.85	0.57
1:A:238:LYS:HZ3	1:A:297:THR:HB	1.63	0.57
1:A:853:ASP:OD1	1:A:864:LYS:HD3	2.05	0.57
3:B:800:PRO:HG2	11:P:37:VAL:HA	1.86	0.57
4:D:22:LEU:C	4:D:24:PHE:H	2.07	0.57
1:Q:427:ARG:H	2:G:76:GLN:NE2	1.99	0.57
2:G:54:LEU:O	2:G:54:LEU:HD23	2.04	0.57
3:R:1054:ASP:HB3	3:R:1095:TYR:H	1.69	0.57
3:R:1071:ASP:C	3:R:1073:ASN:H	2.06	0.57
4:S:98:ILE:HG12	4:S:114:ILE:HG12	1.87	0.57
6:U:18:LYS:CE	6:U:41:LEU:HB3	2.32	0.57
1:A:480:MET:HG2	3:B:1039:PHE:CD1	2.40	0.57
2:C:28:ILE:HD12	8:K:18:VAL:CG2	2.34	0.57
2:C:31:ASP:C	2:C:31:ASP:OD1	2.42	0.57
3:B:361:PHE:C	3:B:361:PHE:CD2	2.77	0.57
3:B:705:THR:HG22	3:B:706:ARG:N	2.10	0.57
3:B:800:PRO:HG2	11:P:37:VAL:C	2.24	0.57
6:F:51:SER:O	6:F:54:LYS:HB3	2.03	0.57
10:N:3:ILE:HD11	10:N:18:TRP:CE3	2.39	0.57
2:G:323:THR:O	2:G:323:THR:HG22	2.04	0.57
3:R:230:LEU:HD13	3:R:312:ALA:HA	1.84	0.57
3:R:338:TYR:HB2	3:R:448:THR:CG2	2.31	0.57
3:R:800:PRO:HD3	3:R:850:VAL:HG23	1.86	0.57
3:R:812:GLY:HA2	3:R:836:SER:CB	2.34	0.57
3:R:1060:VAL:C	3:R:1088:LEU:HD23	2.25	0.57
3:R:1064:CYS:SG	3:R:1064:CYS:O	2.62	0.57
4:S:222:VAL:HG11	4:S:225:LYS:CD	2.35	0.57
10:Y:42:ARG:HG3	10:Y:43:TYR:N	2.11	0.57

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:371:LYS:HD3	1:A:372:TRP:N	2.18	0.57
1:A:378:VAL:CG1	1:A:388:LEU:HD12	2.35	0.57
1:A:825:ASN:O	1:A:826:ALA:C	2.43	0.57
3:B:25:ARG:O	3:B:29:ASP:HB2	2.05	0.57
3:B:235:ASP:O	3:B:239:VAL:HG23	2.05	0.57
3:B:629:GLU:HB3	3:B:630:PRO:HD2	1.87	0.57
6:F:60:SER:HB3	6:F:69:ARG:NH1	2.19	0.57
7:H:23:LEU:CD1	7:H:62:ILE:HG12	2.34	0.57
10:N:60:ILE:HG23	10:N:61:HIS:N	2.17	0.57
11:P:24:VAL:HG13	11:P:24:VAL:O	2.04	0.57
3:R:640:LEU:CD2	3:R:641:GLU:N	2.52	0.57
3:R:963:LEU:HD12	3:R:967:THR:O	2.05	0.57
4:S:175:ASN:CA	4:S:195:LEU:HD21	2.34	0.57
6:U:31:SER:CA	6:U:35:GLN:HE21	2.17	0.57
11:Z:26:CYS:CB	11:Z:27:PRO:HD2	2.32	0.57
1:A:245:ILE:HD13	1:A:268:LEU:CD1	2.34	0.57
1:A:422:GLN:NE2	1:A:463:ASN:HD21	2.02	0.57
1:A:490:ARG:HG2	1:A:491:TYR:CD2	2.38	0.57
3:B:64:ARG:HG2	3:B:64:ARG:NH1	2.19	0.57
3:B:98:LEU:HD11	3:B:100:MET:CG	2.33	0.57
3:B:473:MET:SD	3:B:475:GLN:N	2.77	0.57
3:B:658:PRO:O	3:B:660:HIS:N	2.35	0.57
3:B:1049:LEU:HD12	3:B:1049:LEU:O	2.03	0.57
6:F:59:LEU:HD13	6:F:69:ARG:HG2	1.86	0.57
1:Q:839:ARG:NH2	8:W:83:PRO:HG3	2.20	0.57
1:Q:866:VAL:HB	1:Q:869:ASN:HB3	1.86	0.57
1:Q:867:ASP:HB2	2:G:39:LYS:HZ1	1.68	0.57
3:R:702:LEU:CD2	3:R:933:ALA:HB1	2.35	0.57
4:S:195:LEU:O	4:S:196:SER:O	2.22	0.57
6:U:65:ARG:O	6:U:69:ARG:HG3	2.05	0.57
9:X:29:ALA:HA	9:X:32:LEU:HB2	1.85	0.57
1:A:638:PHE:CE2	1:A:642:GLN:HG3	2.40	0.57
2:C:53:ASP:O	2:C:57:LYS:HB2	2.04	0.57
3:B:624:ALA:HB1	3:B:639:HIS:CD2	2.39	0.57
3:B:1080:PRO:O	3:B:1081:ILE:CG1	2.51	0.57
3:B:1095:TYR:CE1	3:B:1098:LYS:HD2	2.40	0.57
4:D:134:GLY:O	4:D:137:GLN:HG3	2.05	0.57
1:Q:81:VAL:HG12	1:Q:270:GLN:CG	2.34	0.57
1:Q:352:ARG:HD3	1:Q:406:ILE:CD1	2.27	0.57
1:Q:499:ALA:HB3	3:R:734:MET:HE3	1.86	0.57
1:Q:522:GLN:NE2	9:X:33:ARG:HD3	2.20	0.57

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:49:ASP:O	2:G:52:PHE:N	2.36	0.57
3:R:368:GLN:HE22	3:R:386:ARG:NE	2.03	0.57
3:R:662:GLN:CG	3:R:664:PRO:HD2	2.34	0.57
3:R:781:ARG:HD3	3:R:782:GLY:N	2.13	0.57
4:S:257:GLU:O	4:S:260:LEU:HB3	2.04	0.57
11:Z:18:LEU:C	11:Z:20:VAL:H	2.08	0.57
1:A:422:GLN:HA	1:A:424:SER:N	2.20	0.57
1:A:877:GLY:CA	3:R:377:ARG:NH1	2.67	0.57
2:C:109:GLU:OE2	2:C:117:PRO:HA	2.05	0.57
2:C:261:VAL:O	2:C:261:VAL:HG12	2.05	0.57
3:B:600:GLY:C	3:B:602:ILE:N	2.58	0.57
3:B:676:ALA:HB1	3:B:718:ALA:HB1	1.87	0.57
3:B:749:MET:HG2	3:B:750:TYR:HD1	1.69	0.57
3:B:921:LEU:C	3:B:923:GLN:H	2.08	0.57
6:F:52:ALA:HA	6:F:55:VAL:CG2	2.35	0.57
6:F:65:ARG:O	6:F:69:ARG:HG3	2.05	0.57
1:Q:334:ILE:HG22	1:Q:482:VAL:CG1	2.34	0.57
1:Q:368:GLY:O	1:Q:374:GLY:HA3	2.05	0.57
1:Q:490:ARG:HA	2:G:312:HIS:CE1	2.39	0.57
1:Q:791:LYS:HB2	1:Q:794:GLU:HG3	1.87	0.57
2:G:127:THR:HA	2:G:266:GLY:O	2.04	0.57
2:G:390:MET:CE	5:T:66:THR:HG23	2.35	0.57
2:G:392:PRO:HB2	5:T:22:LEU:HD21	1.87	0.57
3:R:82:PRO:HG2	3:R:143:GLU:OE1	2.04	0.57
3:R:206:LYS:HE3	3:R:220:LYS:NZ	2.18	0.57
3:R:852:ILE:CD1	11:Z:35:PHE:HA	2.35	0.57
4:S:111:SER:OG	4:S:126:GLY:HA2	2.04	0.57
1:A:529:ASP:HB3	1:A:626:TRP:NE1	2.20	0.57
1:A:691:THR:CG2	1:A:692:LEU:HD12	2.30	0.57
1:A:746:MET:H	1:A:785:SER:HB3	1.69	0.57
2:C:104:LEU:O	2:C:108:ILE:HG12	2.05	0.57
2:C:115:LYS:C	2:C:116:VAL:HG22	2.24	0.57
2:C:339:ASN:OD1	2:C:344:ARG:HD2	2.05	0.57
3:B:243:SER:CB	3:B:246:PRO:HG3	2.34	0.57
3:B:338:TYR:HB2	3:B:448:THR:CG2	2.32	0.57
3:B:338:TYR:CZ	3:B:341:LYS:NZ	2.70	0.57
3:B:544:ARG:NH2	3:B:614:GLU:OE1	2.38	0.57
3:B:672:MET:CG	3:B:993:LEU:HD21	2.34	0.57
3:B:1046:LYS:C	3:B:1048:ARG:H	2.08	0.57
4:D:86:THR:O	4:D:87:GLU:HB3	2.05	0.57
4:D:170:VAL:HG23	4:D:200:GLU:HG3	1.85	0.57

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:P:39:LYS:O	11:P:41:THR:N	2.38	0.57
1:Q:377:TYR:OH	1:Q:385:ARG:HD2	2.04	0.57
1:Q:741:THR:O	1:Q:742:GLN:C	2.43	0.57
1:Q:749:GLN:CA	1:Q:781:PHE:HA	2.35	0.57
3:R:448:THR:HG22	3:R:449:GLN:H	1.70	0.57
3:R:805:LYS:HG3	3:R:844:MET:HB2	1.87	0.57
10:Y:20:SER:O	10:Y:24:ARG:HG3	2.05	0.57
1:A:279:ASN:HB2	1:A:297:THR:HG23	1.84	0.57
1:A:534:LEU:HD23	9:L:39:SER:OG	2.03	0.57
1:A:589:LYS:O	1:A:592:ILE:HB	2.05	0.57
2:C:359:ALA:O	2:C:361:GLY:N	2.37	0.57
2:C:390:MET:C	2:C:391:ARG:HD3	2.24	0.57
2:C:391:ARG:HB2	8:K:75:PRO:HB2	1.86	0.57
2:C:392:PRO:HG3	5:E:68:HIS:HE1	1.70	0.57
3:B:324:GLU:O	3:B:325:LEU:HB2	2.05	0.57
3:B:759:SER:HB3	3:B:863:LYS:HA	1.86	0.57
3:B:764:LYS:HB3	3:B:815:SER:HB2	1.86	0.57
5:E:39:LEU:CD2	5:E:41:ASP:H	2.18	0.57
7:H:63:ILE:HD12	7:H:63:ILE:N	2.20	0.57
2:G:241:ILE:CG2	2:G:242:VAL:N	2.67	0.57
3:R:193:THR:HG21	3:R:197:ARG:H	1.69	0.57
3:R:276:VAL:HG12	3:R:277:ALA:N	2.15	0.57
4:S:36:VAL:HB	4:S:158:PRO:HG3	1.87	0.57
4:S:250:ILE:CA	4:S:253:ILE:HG22	2.35	0.57
1:A:86:LEU:HB3	1:A:207:MET:HE1	1.86	0.56
1:A:620:SER:C	1:A:622:GLU:H	2.08	0.56
1:A:690:ARG:HD2	1:A:694:GLU:OE1	2.04	0.56
3:B:691:ARG:HH12	3:B:756:ARG:NH2	2.03	0.56
7:H:51:VAL:O	7:H:54:SER:HB3	2.04	0.56
8:K:35:VAL:HG23	8:K:36:ILE:N	2.19	0.56
10:N:22:ILE:CD1	10:N:22:ILE:H	2.18	0.56
1:Q:412:ILE:O	1:Q:415:ASP:HB2	2.05	0.56
1:Q:567:ASN:HD22	1:Q:731:THR:CA	2.18	0.56
1:Q:847:GLN:OE1	1:Q:850:TYR:HA	2.04	0.56
2:G:384:GLY:HA2	5:T:61:PHE:CZ	2.40	0.56
3:R:281:LYS:O	3:R:285:ARG:HG3	2.05	0.56
3:R:800:PRO:HB2	11:Z:38:ARG:HA	1.85	0.56
4:S:252:LYS:O	4:S:255:GLU:N	2.38	0.56
5:T:79:PRO:HG3	5:T:160:ILE:CD1	2.34	0.56
7:V:16:LEU:HD12	7:V:16:LEU:H	1.70	0.56
7:V:51:VAL:O	7:V:54:SER:HB3	2.04	0.56

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:X:70:LEU:HA	9:X:73:ILE:HB	1.87	0.56
11:Z:6:CYS:O	11:Z:37:VAL:HG12	2.05	0.56
1:A:834:TYR:CE1	8:K:80:ARG:HD3	2.39	0.56
2:C:115:LYS:HD2	2:C:276:ASN:ND2	2.20	0.56
3:B:70:VAL:HG11	3:B:90:LEU:HD23	1.86	0.56
3:B:193:THR:HG21	3:B:197:ARG:H	1.70	0.56
3:B:202:ILE:HG22	3:B:203:GLU:N	2.20	0.56
3:B:699:GLN:HA	10:N:51:SER:O	2.06	0.56
4:D:96:ILE:HD11	4:D:143:ALA:HB3	1.87	0.56
4:D:194:LYS:C	4:D:196:SER:H	2.08	0.56
8:K:26:ARG:HG2	8:K:90:LEU:CB	2.35	0.56
1:Q:245:ILE:HD13	1:Q:268:LEU:CB	2.33	0.56
2:G:284:PHE:HE2	7:V:14:HIS:HB2	1.70	0.56
3:R:202:ILE:HG22	3:R:203:GLU:N	2.19	0.56
3:R:298:LEU:C	3:R:300:HIS:H	2.08	0.56
4:S:16:VAL:HG13	4:S:167:TYR:CE1	2.40	0.56
4:S:18:GLU:HB2	4:S:225:LYS:HE3	1.85	0.56
9:X:35:ILE:O	9:X:38:VAL:HG23	2.05	0.56
10:Y:21:PHE:CZ	10:Y:38:LEU:HD13	2.40	0.56
1:A:245:ILE:HD13	1:A:268:LEU:CB	2.34	0.56
1:A:409:ARG:NH2	1:A:415:ASP:OD2	2.38	0.56
1:A:646:MET:SD	3:B:915:LEU:HD23	2.45	0.56
1:A:853:ASP:CB	2:C:311:ARG:HH12	2.15	0.56
2:C:80:GLU:HB3	2:C:81:PRO:CD	2.34	0.56
2:C:241:ILE:CG2	2:C:242:VAL:N	2.68	0.56
2:C:315:LEU:O	2:C:319:VAL:HG23	2.05	0.56
2:C:354:LEU:O	3:B:1109:ILE:HD12	2.06	0.56
2:C:391:ARG:HH21	8:K:42:GLN:CG	2.19	0.56
3:B:63:ILE:HG13	3:B:98:LEU:HA	1.86	0.56
3:B:270:ASP:C	3:B:272:ILE:H	2.09	0.56
3:B:298:LEU:O	3:B:300:HIS:N	2.37	0.56
3:B:435:ARG:HH11	3:B:435:ARG:CG	2.16	0.56
3:B:662:GLN:CG	3:B:664:PRO:HD2	2.34	0.56
3:B:780:VAL:HG12	3:B:831:ALA:N	2.21	0.56
3:B:873:THR:CG2	3:B:874:ILE:H	2.16	0.56
3:B:1041:THR:HG23	3:B:1041:THR:O	2.05	0.56
3:B:1061:CYS:HB3	3:B:1065:GLY:HA2	1.87	0.56
3:B:1071:ASP:C	3:B:1073:ASN:H	2.08	0.56
4:D:21:PRO:HG2	4:D:24:PHE:HB2	1.88	0.56
4:D:169:LYS:HE2	4:D:222:VAL:HG22	1.86	0.56
5:E:179:LYS:HZ2	6:F:79:THR:HB	1.70	0.56

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:N:21:PHE:HE2	10:N:35:LEU:HD23	1.70	0.56
10:N:60:ILE:HG23	10:N:61:HIS:ND1	2.21	0.56
1:Q:64:THR:HG22	1:Q:65:LEU:N	2.19	0.56
1:Q:220:ARG:H	1:Q:221:PRO:HD3	1.70	0.56
1:Q:237:HIS:HE1	1:Q:290:ARG:HH21	1.53	0.56
1:Q:775:SER:CB	1:Q:777:GLU:HG2	2.34	0.56
1:Q:807:VAL:CG1	3:R:443:ARG:NH1	2.67	0.56
3:R:21:LYS:HA	3:R:25:ARG:NH1	2.21	0.56
3:R:64:ARG:N	3:R:97:TRP:HB2	2.21	0.56
3:R:145:PRO:C	3:R:147:ASP:H	2.09	0.56
3:R:314:TYR:CD1	3:R:314:TYR:N	2.73	0.56
3:R:475:GLN:HG2	3:R:476:ILE:N	2.17	0.56
3:R:687:ARG:HH11	3:R:687:ARG:CG	2.18	0.56
3:R:850:VAL:HG13	3:R:864:VAL:HG22	1.87	0.56
4:S:169:LYS:O	4:S:219:ILE:HA	2.05	0.56
5:T:2:TYR:CE2	6:U:41:LEU:HD11	2.40	0.56
5:T:108:VAL:HG11	5:T:164:MET:SD	2.45	0.56
6:U:30:SER:OG	6:U:31:SER:N	2.37	0.56
8:W:50:LEU:H	8:W:50:LEU:CD1	2.18	0.56
10:Y:21:PHE:CE1	10:Y:38:LEU:HD13	2.41	0.56
1:A:365:VAL:HG11	1:A:401:LEU:CD1	2.34	0.56
1:A:567:ASN:ND2	1:A:731:THR:N	2.54	0.56
1:A:765:THR:O	1:A:766:LEU:HD22	2.06	0.56
1:A:831:ARG:NH2	2:C:385:MET:CG	2.68	0.56
1:A:853:ASP:HB2	2:C:311:ARG:NH1	2.17	0.56
2:C:337:GLU:CG	2:C:338:LYS:H	2.13	0.56
3:B:12:ARG:HG3	3:B:596:LYS:HG2	1.87	0.56
3:B:589:VAL:HG12	3:B:590:THR:N	2.20	0.56
3:B:982:ARG:O	3:B:983:ILE:CG1	2.46	0.56
3:B:1004:ARG:HH11	3:B:1025:GLY:N	1.97	0.56
4:D:90:GLU:O	4:D:92:CYS:N	2.39	0.56
4:D:151:LYS:O	4:D:152:GLU:O	2.24	0.56
6:F:30:SER:HB2	6:F:34:LEU:CD1	2.34	0.56
9:L:39:SER:HB3	9:L:58:LEU:O	2.05	0.56
1:Q:238:LYS:HZ3	1:Q:297:THR:HB	1.61	0.56
1:Q:529:ASP:HB3	1:Q:626:TRP:NE1	2.20	0.56
1:Q:864:LYS:HE3	2:G:32:LEU:HD11	1.87	0.56
2:G:63:LEU:C	2:G:64:ILE:HD12	2.25	0.56
2:G:286:ILE:HD11	7:V:46:ARG:H	1.71	0.56
2:G:390:MET:C	2:G:391:ARG:HD3	2.26	0.56
2:G:393:ILE:HG22	2:G:394:LEU:N	2.19	0.56

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:63:ILE:HG13	3:R:98:LEU:HA	1.87	0.56
3:R:210:PHE:HE2	3:R:319:ILE:HG23	1.69	0.56
3:R:247:GLU:C	3:R:249:GLN:N	2.58	0.56
3:R:686:LEU:H	3:R:686:LEU:CD1	2.13	0.56
9:X:7:LYS:H	9:X:14:GLU:HB3	1.70	0.56
1:A:727:VAL:O	1:A:729:ALA:O	2.23	0.56
2:C:41:ILE:HG22	2:C:42:ILE:HD12	1.87	0.56
3:B:655:ILE:O	3:B:658:PRO:HD3	2.06	0.56
3:B:895:VAL:HG23	3:B:896:ASP:OD1	2.05	0.56
3:B:1070:TYR:N	3:B:1070:TYR:CD2	2.72	0.56
4:D:203:CYS:SG	4:D:204:THR:N	2.78	0.56
6:F:59:LEU:HD23	6:F:59:LEU:O	2.06	0.56
7:H:12:ARG:C	7:H:13:ILE:HG22	2.26	0.56
7:H:18:PRO:CB	7:H:67:ARG:HA	2.35	0.56
1:Q:664:GLU:OE2	1:Q:667:ARG:HD3	2.05	0.56
2:G:145:GLU:HG2	2:G:239:ARG:HA	1.87	0.56
3:R:130:ILE:HA	3:R:133:TYR:CD1	2.41	0.56
3:R:157:SER:O	3:R:158:GLU:CB	2.54	0.56
3:R:386:ARG:CB	3:R:389:ILE:HD11	2.35	0.56
3:R:537:ALA:HB2	3:R:557:HIS:HE2	1.67	0.56
3:R:699:GLN:HA	10:Y:51:SER:O	2.04	0.56
4:S:13:ILE:HG13	4:S:238:PRO:HB2	1.88	0.56
4:S:114:ILE:HD12	4:S:123:PRO:HG2	1.86	0.56
4:S:235:SER:C	4:S:236:LEU:HD12	2.26	0.56
5:T:17:GLU:HG2	5:T:20:LYS:HZ3	1.68	0.56
7:V:80:TYR:O	7:V:81:VAL:HB	2.06	0.56
8:W:78:ILE:O	8:W:89:LEU:HA	2.05	0.56
1:A:308:ARG:HG3	1:A:312:ASN:ND2	2.21	0.56
1:A:679:TYR:OH	1:A:693:GLU:HG2	2.06	0.56
1:A:833:GLU:OE2	1:A:839:ARG:HB2	2.04	0.56
2:C:331:ARG:HD3	2:C:348:GLU:CB	2.35	0.56
3:B:59:ARG:NH1	3:B:107:ILE:HD12	2.20	0.56
3:B:230:LEU:HD13	3:B:312:ALA:HA	1.86	0.56
3:B:245:ASP:N	3:B:246:PRO:CD	2.69	0.56
3:B:397:ALA:O	3:B:402:ASN:HA	2.06	0.56
3:B:768:GLY:O	3:B:769:GLN:HB2	2.06	0.56
3:B:1000:LYS:O	3:B:1001:LEU:HB2	2.05	0.56
4:D:36:VAL:HB	4:D:158:PRO:HG3	1.87	0.56
4:D:237:LYS:O	4:D:240:ARG:HB3	2.06	0.56
1:Q:528:ALA:O	1:Q:530:VAL:N	2.39	0.56
1:Q:647:ARG:NH2	3:R:982:ARG:HH12	2.04	0.56

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:55:ALA:HA	2:G:58:GLU:OE2	2.06	0.56
2:G:337:GLU:CG	2:G:338:LYS:H	2.18	0.56
2:G:391:ARG:H	2:G:392:PRO:HD3	1.69	0.56
3:R:34:PHE:HE1	3:R:351:ALA:HA	1.71	0.56
3:R:727:MET:CE	3:R:898:PRO:HG3	2.36	0.56
3:R:911:ASN:HD22	3:R:913:HIS:H	1.52	0.56
1:A:354:THR:O	1:A:355:PRO:O	2.24	0.56
1:A:530:VAL:O	1:A:530:VAL:CG1	2.54	0.56
1:A:567:ASN:HD22	1:A:731:THR:CA	2.18	0.56
1:A:672:VAL:O	1:A:673:ASP:C	2.43	0.56
1:A:704:LEU:HD13	1:A:781:PHE:CD1	2.33	0.56
2:C:343:ALA:HB2	2:C:371:GLU:HG3	1.87	0.56
3:B:294:ASP:O	3:B:303:THR:HG23	2.06	0.56
3:B:429:VAL:HG11	3:B:453:MET:HE1	1.87	0.56
3:B:855:THR:CG2	3:B:857:GLU:HG2	2.36	0.56
4:D:25:VAL:HG21	4:D:226:TYR:CD1	2.36	0.56
4:D:235:SER:C	4:D:236:LEU:HD12	2.25	0.56
5:E:108:VAL:HG11	5:E:164:MET:SD	2.45	0.56
6:F:41:LEU:O	6:F:43:SER:N	2.33	0.56
9:L:29:ALA:HA	9:L:32:LEU:HB2	1.86	0.56
1:Q:354:THR:HB	1:Q:355:PRO:CD	2.29	0.56
1:Q:409:ARG:HH11	1:Q:409:ARG:CB	2.19	0.56
1:Q:610:SER:O	1:Q:613:HIS:HB3	2.06	0.56
1:Q:679:TYR:OH	1:Q:693:GLU:HG2	2.06	0.56
2:G:104:LEU:HB3	2:G:105:PRO:CD	2.30	0.56
3:R:12:ARG:HG3	3:R:596:LYS:HG2	1.88	0.56
3:R:541:ARG:NH2	3:R:557:HIS:HD2	2.03	0.56
4:S:7:HIS:ND1	4:S:8:LYS:N	2.54	0.56
8:W:91:SER:O	8:W:92:LEU:HB2	2.05	0.56
9:X:11:ASN:O	9:X:58:LEU:HD12	2.06	0.56
1:A:245:ILE:HD12	1:A:272:HIS:CD2	2.40	0.56
1:A:647:ARG:NH2	3:B:982:ARG:HH12	2.03	0.56
2:C:68:GLU:HB3	8:K:30:TYR:CZ	2.41	0.56
2:C:126:LEU:HD12	2:C:131:LYS:CG	2.35	0.56
3:B:60:LEU:CD2	3:B:98:LEU:HD21	2.32	0.56
3:B:702:LEU:HB2	3:B:721:ASN:ND2	2.21	0.56
3:B:749:MET:HE1	3:B:907:ASP:HB3	1.88	0.56
3:B:784:LYS:HE3	3:B:834:ASP:HB3	1.88	0.56
3:B:877:LYS:HE3	3:B:885:LYS:HD2	1.88	0.56
3:B:1069:TRP:NE1	3:B:1088:LEU:HD22	2.21	0.56
4:D:259:LYS:O	4:D:263:VAL:HG23	2.05	0.56

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:K:54:ASN:ND2	8:K:58:SER:H	2.03	0.56
10:N:13:LEU:O	10:N:14:ILE:HD13	2.05	0.56
1:Q:504:SER:O	1:Q:508:LEU:HD12	2.05	0.56
1:Q:727:VAL:HG12	1:Q:728:MET:N	2.21	0.56
3:R:270:ASP:C	3:R:272:ILE:H	2.08	0.56
3:R:699:GLN:HG3	3:R:720:ASN:ND2	2.20	0.56
3:R:745:VAL:HG13	3:R:872:PRO:HG2	1.87	0.56
3:R:851:LEU:HA	11:Z:35:PHE:CB	2.34	0.56
6:U:51:SER:O	6:U:54:LYS:HB3	2.06	0.56
6:U:59:LEU:O	6:U:59:LEU:HD23	2.06	0.56
8:W:26:ARG:HG2	8:W:90:LEU:CB	2.36	0.56
1:A:194:ILE:O	1:A:194:ILE:HG22	2.06	0.56
1:A:558:LYS:H	1:A:558:LYS:CD	2.13	0.56
2:C:391:ARG:N	2:C:392:PRO:HD3	2.21	0.56
3:B:247:GLU:C	3:B:249:GLN:N	2.58	0.56
3:B:314:TYR:CD1	3:B:314:TYR:N	2.72	0.56
3:B:904:VAL:CG2	10:N:42:ARG:HE	2.14	0.56
5:E:17:GLU:HG2	5:E:20:LYS:HZ3	1.71	0.56
6:F:72:LEU:C	6:F:74:SER:H	2.07	0.56
7:H:45:ILE:CB	7:H:79:ARG:HB3	2.35	0.56
1:Q:88:LYS:O	1:Q:92:GLU:HG3	2.06	0.56
1:Q:185:GLU:HA	1:Q:205:GLU:HG2	1.88	0.56
1:Q:567:ASN:ND2	1:Q:731:THR:N	2.54	0.56
2:G:41:ILE:HG22	2:G:42:ILE:HD12	1.87	0.56
3:R:111:PRO:O	3:R:112:GLU:HB3	2.04	0.56
3:R:429:VAL:HG11	3:R:453:MET:HE1	1.88	0.56
3:R:764:LYS:HD3	3:R:815:SER:CA	2.35	0.56
3:R:877:LYS:HE3	3:R:885:LYS:HD2	1.88	0.56
3:R:1070:TYR:N	3:R:1070:TYR:CD2	2.71	0.56
1:A:234:ASP:C	1:A:236:THR:N	2.58	0.56
1:A:807:VAL:CG1	3:B:443:ARG:HH11	2.18	0.56
1:A:866:VAL:HB	1:A:869:ASN:HB3	1.87	0.56
2:C:44:THR:HG22	2:C:46:ASP:OD2	2.06	0.56
3:B:116:ILE:HG22	3:B:390:VAL:HG21	1.88	0.56
3:B:654:ILE:HG22	3:B:881:ARG:HG2	1.88	0.56
3:B:804:VAL:C	3:B:805:LYS:HD2	2.26	0.56
3:B:855:THR:C	3:B:857:GLU:H	2.08	0.56
3:B:870:ARG:NH2	3:B:996:MET:SD	2.79	0.56
4:D:45:TYR:CD1	11:P:44:ILE:HG12	2.41	0.56
4:D:64:LEU:HD22	10:N:6:ARG:CD	2.36	0.56
4:D:190:LEU:HD23	4:D:190:LEU:N	2.21	0.56

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:H:35:LEU:O	7:H:37:ILE:HG13	2.06	0.56
7:H:80:TYR:O	7:H:81:VAL:HB	2.04	0.56
8:K:39:ARG:HH21	8:K:50:LEU:HD13	1.71	0.56
8:K:50:LEU:CD1	8:K:50:LEU:H	2.19	0.56
11:P:37:VAL:HG22	11:P:38:ARG:N	2.21	0.56
1:Q:23:SER:OG	1:Q:73:GLY:HA2	2.06	0.56
1:Q:90:ILE:CG2	1:Q:208:ILE:HD11	2.35	0.56
1:Q:212:LEU:CD2	1:Q:242:ILE:HD13	2.36	0.56
1:Q:734:ARG:HG3	3:R:917:SER:HB3	1.87	0.56
1:Q:826:ALA:CB	2:G:335:THR:HG23	2.26	0.56
1:Q:878:TRP:HZ3	2:G:50:LYS:HE2	1.68	0.56
2:G:315:LEU:O	2:G:319:VAL:HG23	2.06	0.56
3:R:25:ARG:O	3:R:29:ASP:HB2	2.05	0.56
3:R:624:ALA:HB1	3:R:639:HIS:CD2	2.39	0.56
3:R:800:PRO:O	3:R:802:VAL:N	2.33	0.56
4:S:6:LEU:HD13	4:S:16:VAL:CG2	2.35	0.56
4:S:48:GLU:HB3	4:S:140:SER:HB3	1.86	0.56
4:S:125:SER:C	4:S:127:ASP:H	2.10	0.56
5:T:18:PHE:HE2	8:W:42:GLN:HG2	1.70	0.56
6:U:35:GLN:O	6:U:38:TYR:HB2	2.06	0.56
6:U:72:LEU:HD23	6:U:86:ILE:CD1	2.36	0.56
10:Y:22:ILE:HD13	10:Y:23:THR:H	1.71	0.56
1:A:377:TYR:CE1	1:A:385:ARG:HG2	2.41	0.55
2:C:126:LEU:HD12	2:C:131:LYS:HA	1.86	0.55
3:B:188:LYS:HA	3:B:203:GLU:O	2.06	0.55
3:B:587:PRO:C	3:B:588:LEU:HG	2.25	0.55
3:B:849:LEU:HB3	3:B:865:ARG:HG2	1.87	0.55
1:Q:489:PRO:CB	1:Q:858:MET:HG3	2.36	0.55
1:Q:732:GLY:O	1:Q:733:ALA:C	2.43	0.55
2:G:53:ASP:O	2:G:57:LYS:HB2	2.06	0.55
2:G:245:LYS:HD2	2:G:250:ILE:HD12	1.87	0.55
3:R:17:TYR:OH	3:R:474:ALA:HA	2.05	0.55
3:R:164:GLN:CG	3:R:349:LEU:HD21	2.36	0.55
3:R:245:ASP:N	3:R:246:PRO:CD	2.69	0.55
3:R:474:ALA:HB2	3:R:578:PRO:HG3	1.86	0.55
3:R:930:GLY:HA2	10:Y:47:ARG:NH2	2.20	0.55
4:S:96:ILE:HD11	4:S:143:ALA:HB3	1.88	0.55
4:S:177:GLU:HB2	4:S:178:LYS:HZ3	1.69	0.55
5:T:64:GLY:H	8:W:41:LEU:HD23	1.72	0.55
5:T:97:ILE:HD12	5:T:113:ILE:CD1	2.36	0.55
1:A:325:VAL:O	1:A:442:THR:HB	2.06	0.55

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:488:THR:HG22	1:A:490:ARG:H	1.71	0.55
1:A:765:THR:HG21	1:A:797:PHE:CE2	2.39	0.55
2:C:132:ARG:HA	2:C:249:TYR:HD1	1.71	0.55
2:C:277:ILE:HG22	2:C:278:ARG:N	2.19	0.55
2:C:286:ILE:HD13	2:C:324:GLY:O	2.06	0.55
2:C:393:ILE:HG21	2:C:395:ARG:NH2	2.16	0.55
3:B:130:ILE:HA	3:B:133:TYR:CD1	2.40	0.55
3:B:248:VAL:HG21	3:B:329:ARG:NH2	2.17	0.55
3:B:377:ARG:O	3:B:378:LYS:HB2	2.05	0.55
3:B:562:PHE:N	3:B:562:PHE:CD1	2.73	0.55
3:B:867:ARG:NH2	4:D:54:TYR:CE2	2.73	0.55
4:D:7:HIS:ND1	4:D:8:LYS:N	2.53	0.55
4:D:48:GLU:HB3	4:D:140:SER:HB3	1.88	0.55
5:E:171:LYS:HG2	5:E:172:LEU:N	2.21	0.55
7:H:16:LEU:HD12	7:H:16:LEU:H	1.71	0.55
7:H:65:ILE:H	7:H:65:ILE:CD1	2.18	0.55
8:K:71:ARG:HB2	8:K:71:ARG:NH1	2.20	0.55
10:N:22:ILE:HD13	10:N:22:ILE:H	1.71	0.55
1:Q:279:ASN:HB2	1:Q:297:THR:HG23	1.88	0.55
1:Q:746:MET:N	1:Q:785:SER:HB3	2.20	0.55
1:Q:787:ARG:NH2	1:Q:788:THR:HA	2.21	0.55
1:Q:827:LEU:HD13	2:G:319:VAL:HG21	1.88	0.55
1:Q:864:LYS:HE3	2:G:32:LEU:CD1	2.35	0.55
2:G:331:ARG:HD3	2:G:348:GLU:CB	2.35	0.55
3:R:296:TYR:N	3:R:296:TYR:CD1	2.72	0.55
3:R:895:VAL:HG23	3:R:896:ASP:OD1	2.05	0.55
3:R:1012:LEU:HD13	3:R:1012:LEU:C	2.26	0.55
3:R:1067:ILE:HG12	3:R:1068:GLY:N	2.21	0.55
4:S:160:SER:HB3	4:S:233:VAL:HG12	1.87	0.55
8:W:50:LEU:O	8:W:51:ILE:C	2.44	0.55
1:A:334:ILE:HG22	1:A:482:VAL:CG1	2.36	0.55
1:A:417:VAL:HG11	1:A:464:LEU:CD1	2.36	0.55
1:A:490:ARG:HA	2:C:312:HIS:CE1	2.41	0.55
1:A:606:GLN:HE21	1:A:608:PRO:HG2	1.72	0.55
2:C:366:PHE:O	2:C:368:GLY:N	2.39	0.55
3:B:5:LEU:HA	3:B:9:GLU:OE2	2.06	0.55
3:B:148:PRO:HG3	3:B:422:MET:CE	2.37	0.55
3:B:319:ILE:C	3:B:321:LYS:H	2.09	0.55
3:B:577:ARG:HE	3:B:578:PRO:HD2	1.71	0.55
3:B:769:GLN:O	3:B:770:GLU:CB	2.51	0.55
3:B:881:ARG:NH1	3:B:989:TYR:CB	2.70	0.55

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:98:ILE:HG13	4:D:114:ILE:HA	1.88	0.55
4:D:240:ARG:O	4:D:243:LEU:HB3	2.07	0.55
10:N:55:ILE:H	10:N:55:ILE:CD1	2.20	0.55
1:Q:369:PRO:HG3	1:Q:389:ARG:HA	1.88	0.55
1:Q:759:ARG:H	1:Q:779:ARG:HH21	1.54	0.55
2:G:359:ALA:O	2:G:361:GLY:N	2.38	0.55
3:R:324:GLU:O	3:R:325:LEU:HB2	2.06	0.55
3:R:978:LYS:HG2	4:S:166:TYR:HE2	1.71	0.55
4:S:21:PRO:HG2	4:S:24:PHE:HB2	1.87	0.55
4:S:182:VAL:O	4:S:184:PRO:HD3	2.06	0.55
6:U:14:TYR:C	6:U:18:LYS:HE3	2.27	0.55
6:U:56:ILE:HG23	6:U:69:ARG:CB	2.36	0.55
10:Y:55:ILE:H	10:Y:55:ILE:CD1	2.19	0.55
1:A:64:THR:HG22	1:A:65:LEU:H	1.71	0.55
3:B:92:TYR:OH	3:B:128:ASP:OD2	2.24	0.55
3:B:107:ILE:HG12	3:B:110:GLU:OE2	2.06	0.55
4:D:18:GLU:HB2	4:D:225:LYS:HE3	1.88	0.55
5:E:147:ILE:CG1	5:E:163:THR:HB	2.37	0.55
1:Q:407:ILE:C	1:Q:407:ILE:HD12	2.26	0.55
1:Q:485:ASN:ND2	3:R:1039:PHE:HE2	2.02	0.55
1:Q:525:LEU:CD1	1:Q:530:VAL:HG11	2.35	0.55
1:Q:588:ILE:HA	1:Q:592:ILE:O	2.06	0.55
2:G:380:LYS:HE2	2:G:380:LYS:HA	1.87	0.55
3:R:64:ARG:H	3:R:97:TRP:CB	2.18	0.55
3:R:800:PRO:HG2	11:Z:37:VAL:C	2.26	0.55
3:R:902:LYS:HB3	10:Y:42:ARG:CD	2.35	0.55
3:R:935:LEU:HD23	10:Y:43:TYR:HB3	1.88	0.55
6:U:30:SER:HB2	6:U:34:LEU:CD1	2.36	0.55
7:V:12:ARG:C	7:V:13:ILE:HG22	2.26	0.55
9:X:39:SER:HB3	9:X:58:LEU:O	2.07	0.55
10:Y:22:ILE:CD1	10:Y:22:ILE:H	2.19	0.55
1:A:847:GLN:OE1	1:A:850:TYR:HA	2.05	0.55
2:C:39:LYS:O	2:C:43:VAL:HG23	2.06	0.55
3:B:340:ASN:O	3:B:340:ASN:CG	2.43	0.55
3:B:373:LYS:HG3	3:B:375:ARG:HB2	1.89	0.55
3:B:781:ARG:HD3	3:B:782:GLY:N	2.12	0.55
3:B:800:PRO:HB2	11:P:38:ARG:HA	1.87	0.55
4:D:13:ILE:HG13	4:D:238:PRO:HB2	1.89	0.55
5:E:39:LEU:HD23	5:E:41:ASP:N	2.21	0.55
9:L:7:LYS:HE3	9:L:12:TYR:HE2	1.72	0.55
2:G:70:ILE:HD13	2:G:71:GLY:N	2.21	0.55

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:294:ASP:O	3:R:303:THR:HG23	2.06	0.55
3:R:352:SER:O	3:R:404:VAL:HG11	2.06	0.55
3:R:461:GLY:O	3:R:464:SER:HB3	2.05	0.55
4:S:86:THR:O	4:S:87:GLU:HB3	2.07	0.55
4:S:133:LEU:HD21	4:S:139:ILE:CD1	2.37	0.55
4:S:190:LEU:N	4:S:190:LEU:HD23	2.22	0.55
6:U:48:ASP:H	6:U:51:SER:HG	1.53	0.55
8:W:50:LEU:H	8:W:50:LEU:HD12	1.72	0.55
1:A:30:PRO:HB2	1:A:244:ARG:HG3	1.87	0.55
1:A:258:PRO:C	1:A:260:LEU:H	2.09	0.55
1:A:588:ILE:HA	1:A:592:ILE:O	2.07	0.55
2:C:60:SER:O	2:C:63:LEU:HB3	2.06	0.55
3:B:88:ARG:HG2	11:P:33:ILE:HD11	1.88	0.55
3:B:154:VAL:HG21	3:B:399:ALA:HB2	1.87	0.55
3:B:157:SER:O	3:B:158:GLU:CB	2.54	0.55
3:B:368:GLN:HE22	3:B:386:ARG:NE	2.04	0.55
3:B:480:ILE:HD11	3:B:550:SER:CB	2.36	0.55
3:B:764:LYS:HB3	3:B:815:SER:CB	2.36	0.55
3:B:1004:ARG:NH1	3:B:1024:GLY:HA2	2.21	0.55
4:D:170:VAL:CG2	4:D:200:GLU:HG3	2.36	0.55
1:Q:486:ILE:HG23	1:Q:487:ILE:HG13	1.88	0.55
1:Q:558:LYS:H	1:Q:558:LYS:CD	2.16	0.55
1:Q:838:VAL:HG13	2:G:70:ILE:HD11	1.89	0.55
2:G:349:VAL:CG2	2:G:352:LYS:HB2	2.36	0.55
3:R:373:LYS:HE2	3:R:378:LYS:HE3	1.88	0.55
3:R:784:LYS:HE3	3:R:834:ASP:HB3	1.88	0.55
8:W:18:VAL:CG1	8:W:22:LEU:HD12	2.34	0.55
3:B:27:HIS:O	3:B:30:SER:HB3	2.07	0.55
3:B:691:ARG:HB3	3:B:754:PHE:CZ	2.41	0.55
3:B:702:LEU:HD13	10:N:47:ARG:HD2	1.88	0.55
3:B:855:THR:HB	3:B:857:GLU:CG	2.36	0.55
10:N:62:TYR:O	10:N:63:THR:OG1	2.21	0.55
2:G:31:ASP:C	2:G:31:ASP:OD1	2.44	0.55
3:R:296:TYR:O	3:R:297:PHE:HB2	2.07	0.55
3:R:298:LEU:N	3:R:299:PRO:HD3	2.22	0.55
3:R:397:ALA:O	3:R:402:ASN:HA	2.06	0.55
3:R:691:ARG:HH12	3:R:756:ARG:NH2	2.04	0.55
4:S:47:ILE:HB	4:S:140:SER:O	2.07	0.55
4:S:64:LEU:HD22	10:Y:6:ARG:HD3	1.89	0.55
1:A:13:ILE:CD1	1:A:86:LEU:HD13	2.37	0.55
1:A:47:PRO:HG2	1:A:48:ARG:CD	2.37	0.55

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:90:ILE:CG2	1:A:208:ILE:HD11	2.37	0.55
1:A:352:ARG:HA	1:A:406:ILE:HA	1.88	0.55
1:A:537:PRO:HB2	1:A:540:LEU:CD2	2.36	0.55
2:C:238:LYS:O	2:C:239:ARG:HB2	2.07	0.55
3:B:1036:LEU:HD12	3:B:1045:LEU:HB2	1.87	0.55
4:D:26:ASN:O	4:D:29:ARG:HB3	2.07	0.55
4:D:134:GLY:O	4:D:135:THR:O	2.25	0.55
5:E:79:PRO:HG3	5:E:160:ILE:CD1	2.32	0.55
5:E:179:LYS:CE	6:F:81:ASP:HB2	2.35	0.55
7:H:46:ARG:O	7:H:49:ASP:HB2	2.07	0.55
11:P:37:VAL:HG22	11:P:38:ARG:H	1.71	0.55
1:Q:13:ILE:CD1	1:Q:86:LEU:HD13	2.37	0.55
1:Q:334:ILE:CD1	1:Q:628:MET:HB3	2.37	0.55
1:Q:503:ILE:HD11	1:Q:732:GLY:C	2.26	0.55
1:Q:507:TYR:HB2	1:Q:511:VAL:CG1	2.36	0.55
1:Q:724:PHE:O	1:Q:727:VAL:HB	2.06	0.55
2:G:138:LEU:O	2:G:142:ARG:HG3	2.07	0.55
2:G:301:LEU:HA	2:G:304:GLN:CG	2.37	0.55
3:R:231:GLY:O	3:R:232:ILE:HD13	2.06	0.55
3:R:316:ALA:C	3:R:318:ALA:H	2.09	0.55
3:R:530:TYR:OH	3:R:536:LEU:HG	2.07	0.55
4:S:21:PRO:HG3	9:X:79:MET:CE	2.37	0.55
4:S:69:SER:O	4:S:70:GLU:C	2.46	0.55
5:T:145:ARG:CZ	5:T:145:ARG:HB2	2.37	0.55
5:T:145:ARG:HB2	5:T:145:ARG:NH1	2.21	0.55
6:U:51:SER:O	6:U:55:VAL:HG23	2.07	0.55
7:V:46:ARG:O	7:V:49:ASP:HB2	2.06	0.55
2:C:241:ILE:HG22	2:C:242:VAL:H	1.69	0.55
2:C:393:ILE:HG22	2:C:394:LEU:N	2.22	0.55
3:B:69:ARG:O	3:B:70:VAL:HG13	2.06	0.55
3:B:265:VAL:O	3:B:269:LEU:HG	2.07	0.55
3:B:813:LYS:H	3:B:836:SER:HB3	1.72	0.55
3:B:873:THR:HG22	3:B:874:ILE:H	1.71	0.55
4:D:226:TYR:C	4:D:227:ILE:HG13	2.27	0.55
5:E:81:VAL:O	5:E:82:GLN:HB2	2.06	0.55
8:K:50:LEU:O	8:K:51:ILE:C	2.45	0.55
11:P:18:LEU:C	11:P:20:VAL:H	2.09	0.55
1:Q:47:PRO:HG2	1:Q:48:ARG:CD	2.36	0.55
3:R:63:ILE:HG13	3:R:98:LEU:HB2	1.88	0.55
3:R:167:LEU:O	3:R:341:LYS:HA	2.06	0.55
3:R:380:ALA:O	3:R:383:ALA:N	2.37	0.55

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:655:ILE:O	3:R:658:PRO:HD3	2.06	0.55
6:U:72:LEU:HD23	6:U:86:ILE:HD13	1.88	0.55
7:V:43:PRO:HB2	7:V:78:TYR:O	2.06	0.55
8:W:15:PHE:O	8:W:19:PHE:HB2	2.07	0.55
1:A:301:ARG:NH1	1:A:308:ARG:NH1	2.54	0.55
1:A:409:ARG:HE	1:A:412:ILE:HG12	1.70	0.55
1:A:876:VAL:C	1:A:878:TRP:N	2.59	0.55
2:C:380:LYS:HE2	2:C:380:LYS:HA	1.88	0.55
3:B:34:PHE:HE1	3:B:351:ALA:HA	1.72	0.55
3:B:89:ASN:HD21	3:B:863:LYS:HZ3	1.52	0.55
3:B:386:ARG:HB2	3:B:389:ILE:CD1	2.35	0.55
3:B:544:ARG:NH2	3:B:620:GLU:OE2	2.40	0.55
10:N:22:ILE:N	10:N:22:ILE:CD1	2.70	0.55
1:Q:214:VAL:O	1:Q:214:VAL:HG12	2.06	0.55
1:Q:238:LYS:CE	1:Q:276:TYR:HA	2.36	0.55
1:Q:374:GLY:O	1:Q:410:HIS:HB2	2.07	0.55
1:Q:377:TYR:H	1:Q:388:LEU:CB	2.18	0.55
1:Q:505:GLY:O	1:Q:506:ALA:C	2.44	0.55
1:Q:567:ASN:N	1:Q:599:ASP:OD2	2.39	0.55
1:Q:872:PHE:HA	1:Q:876:VAL:HB	1.88	0.55
2:G:65:ALA:HB1	8:W:19:PHE:CZ	2.41	0.55
2:G:126:LEU:HD12	2:G:131:LYS:HA	1.89	0.55
3:R:248:VAL:CG1	3:R:329:ARG:HH12	2.18	0.55
3:R:388:ASP:C	3:R:390:VAL:N	2.55	0.55
3:R:478:VAL:HA	3:R:572:SER:CB	2.37	0.55
3:R:562:PHE:N	3:R:562:PHE:CD1	2.75	0.55
3:R:906:PRO:HD3	3:R:985:PHE:CZ	2.42	0.55
3:R:921:LEU:C	3:R:923:GLN:H	2.10	0.55
4:S:177:GLU:HB2	4:S:178:LYS:HZ2	1.71	0.55
5:T:147:ILE:HD11	5:T:163:THR:HB	1.88	0.55
7:V:37:ILE:O	7:V:37:ILE:HD12	2.07	0.55
9:X:5:ILE:O	9:X:5:ILE:HD13	2.07	0.55
10:Y:22:ILE:N	10:Y:22:ILE:CD1	2.70	0.55
1:A:242:ILE:HD13	1:A:273:VAL:HG22	1.88	0.54
1:A:505:GLY:O	1:A:506:ALA:C	2.45	0.54
1:A:877:GLY:C	3:R:377:ARG:NH1	2.61	0.54
2:C:63:LEU:HD21	8:K:23:TRP:CZ3	2.43	0.54
2:C:63:LEU:C	2:C:64:ILE:HD12	2.27	0.54
2:C:138:LEU:O	2:C:142:ARG:HG3	2.06	0.54
3:B:134:THR:O	3:B:135:LEU:C	2.45	0.54
3:B:871:ILE:HG22	3:B:872:PRO:HD2	1.88	0.54

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:1022:ARG:O	3:B:1022:ARG:HG2	2.08	0.54
4:D:38:ILE:O	4:D:147:LEU:HD23	2.06	0.54
4:D:66:PRO:HG2	10:N:13:LEU:HD21	1.89	0.54
6:F:56:ILE:HG23	6:F:69:ARG:CB	2.36	0.54
9:L:35:ILE:O	9:L:38:VAL:HG23	2.07	0.54
11:P:26:CYS:HB2	11:P:27:PRO:CD	2.32	0.54
1:Q:4:LYS:HD2	3:R:1089:PHE:CB	2.36	0.54
1:Q:8:GLY:O	3:R:1114:VAL:HG13	2.07	0.54
1:Q:422:GLN:HA	1:Q:424:SER:N	2.22	0.54
1:Q:480:MET:HG2	3:R:1039:PHE:CD1	2.42	0.54
1:Q:572:PRO:HG2	1:Q:573:ARG:HD3	1.89	0.54
1:Q:853:ASP:CB	2:G:311:ARG:HH12	2.18	0.54
2:G:26:GLN:C	2:G:28:ILE:H	2.09	0.54
2:G:44:THR:HG22	2:G:46:ASP:OD2	2.07	0.54
3:R:183:ILE:HD13	3:R:183:ILE:H	1.72	0.54
3:R:587:PRO:C	3:R:588:LEU:HG	2.27	0.54
3:R:656:PRO:HD3	3:R:881:ARG:HH21	1.71	0.54
3:R:657:TYR:HA	3:R:659:GLU:OE2	2.06	0.54
3:R:855:THR:CG2	3:R:857:GLU:HG2	2.37	0.54
3:R:1014:ARG:HD2	3:R:1095:TYR:CD1	2.43	0.54
4:S:247:LYS:HA	4:S:250:ILE:HD12	1.87	0.54
7:V:55:ILE:O	7:V:56:ASN:C	2.44	0.54
1:A:65:LEU:O	1:A:67:ASN:N	2.40	0.54
1:A:86:LEU:HB3	1:A:207:MET:CE	2.36	0.54
2:C:26:GLN:C	2:C:28:ILE:H	2.09	0.54
3:B:145:PRO:C	3:B:147:ASP:H	2.10	0.54
3:B:386:ARG:CB	3:B:389:ILE:HD11	2.35	0.54
3:B:971:TYR:O	3:B:973:GLY:N	2.40	0.54
4:D:26:ASN:O	4:D:30:ARG:HG3	2.06	0.54
1:Q:19:ILE:HA	1:Q:22:MET:CE	2.37	0.54
1:Q:308:ARG:HG3	1:Q:312:ASN:ND2	2.21	0.54
1:Q:375:ALA:CB	1:Q:409:ARG:HA	2.37	0.54
1:Q:417:VAL:HG11	1:Q:464:LEU:HD11	1.88	0.54
1:Q:428:ILE:HG23	1:Q:452:PRO:HB2	1.88	0.54
1:Q:720:ASP:C	1:Q:722:PHE:H	2.10	0.54
1:Q:765:THR:HG21	1:Q:797:PHE:CE2	2.40	0.54
2:G:80:GLU:CB	2:G:81:PRO:HD3	2.27	0.54
2:G:358:ALA:HB2	3:R:1109:ILE:HD12	1.88	0.54
3:R:85:ALA:CB	3:R:92:TYR:HB2	2.37	0.54
1:A:13:ILE:HG22	1:A:13:ILE:O	2.05	0.54
1:A:336:GLU:OE2	1:A:436:ARG:HD3	2.07	0.54

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:656:ASP:O	1:A:659:LYS:HB2	2.07	0.54
2:C:292:ILE:HD13	7:H:16:LEU:HD21	1.90	0.54
2:C:331:ARG:HB3	2:C:331:ARG:HH11	1.72	0.54
3:B:183:ILE:HD13	3:B:183:ILE:H	1.72	0.54
3:B:530:TYR:OH	3:B:536:LEU:HG	2.06	0.54
3:B:800:PRO:O	3:B:802:VAL:N	2.34	0.54
3:B:1054:ASP:HB3	3:B:1095:TYR:H	1.72	0.54
3:B:1101:ILE:O	3:B:1105:MET:HG3	2.07	0.54
4:D:111:SER:OG	4:D:126:GLY:HA2	2.07	0.54
4:D:250:ILE:CA	4:D:253:ILE:HG22	2.37	0.54
1:Q:807:VAL:HG11	3:R:443:ARG:HH11	1.71	0.54
2:G:104:LEU:O	2:G:108:ILE:HG12	2.07	0.54
2:G:126:LEU:HD12	2:G:131:LYS:CG	2.37	0.54
2:G:241:ILE:CG2	2:G:242:VAL:H	2.21	0.54
2:G:287:GLU:OE1	7:V:67:ARG:NH2	2.40	0.54
2:G:321:THR:HB	2:G:322:ARG:HH11	1.72	0.54
2:G:354:LEU:HD13	3:R:1104:LEU:HD21	1.90	0.54
2:G:391:ARG:N	2:G:392:PRO:HD3	2.22	0.54
3:R:469:ASN:HD22	3:R:469:ASN:N	2.04	0.54
3:R:740:MET:O	3:R:891:LEU:HA	2.07	0.54
3:R:972:ASP:HB3	3:R:975:THR:HG23	1.89	0.54
4:S:66:PRO:CG	10:Y:13:LEU:HD21	2.37	0.54
4:S:170:VAL:HG23	4:S:200:GLU:HG3	1.88	0.54
4:S:250:ILE:HD11	9:X:84:ILE:HD11	1.89	0.54
10:Y:60:ILE:HG23	10:Y:61:HIS:N	2.19	0.54
1:A:4:LYS:HD2	3:B:1089:PHE:C	2.27	0.54
1:A:13:ILE:HD11	1:A:86:LEU:CD1	2.37	0.54
1:A:184:LEU:HD22	1:A:204:PRO:HB2	1.89	0.54
1:A:220:ARG:H	1:A:221:PRO:HD3	1.72	0.54
1:A:238:LYS:CE	1:A:276:TYR:HA	2.37	0.54
1:A:308:ARG:HH22	3:B:1012:LEU:HD11	1.71	0.54
1:A:447:LEU:HD13	3:B:734:MET:SD	2.47	0.54
1:A:746:MET:N	1:A:785:SER:HB3	2.23	0.54
2:C:258:LEU:HD21	2:C:284:PHE:CE1	2.42	0.54
3:B:91:THR:HA	3:B:155:ASN:H	1.72	0.54
3:B:244:LEU:HD13	3:B:500:VAL:CG1	2.38	0.54
3:B:582:VAL:CG1	3:B:586:ASN:H	2.08	0.54
3:B:691:ARG:NH1	3:B:756:ARG:HH21	2.05	0.54
3:B:727:MET:CB	3:B:983:ILE:HD12	2.37	0.54
3:B:740:MET:O	3:B:891:LEU:HA	2.07	0.54
3:B:943:THR:CG2	3:B:944:PRO:HD2	2.34	0.54

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:950:ILE:O	3:B:952:GLN:N	2.40	0.54
4:D:158:PRO:O	4:D:233:VAL:HG22	2.08	0.54
6:F:14:TYR:C	6:F:18:LYS:HE3	2.28	0.54
7:H:55:ILE:O	7:H:56:ASN:C	2.46	0.54
1:Q:65:LEU:O	1:Q:67:ASN:N	2.40	0.54
1:Q:316:LYS:HE2	3:R:1054:ASP:OD2	2.06	0.54
1:Q:378:VAL:CG1	1:Q:388:LEU:HD12	2.37	0.54
1:Q:672:VAL:HG11	1:Q:776:PRO:HD3	1.89	0.54
2:G:361:GLY:O	2:G:362:ASP:O	2.25	0.54
3:R:104:GLU:O	3:R:105:ASN:CB	2.56	0.54
3:R:319:ILE:C	3:R:321:LYS:H	2.11	0.54
3:R:629:GLU:HB3	3:R:630:PRO:HD2	1.89	0.54
3:R:749:MET:HG2	3:R:750:TYR:HD1	1.71	0.54
8:W:71:ARG:HB2	8:W:71:ARG:NH1	2.22	0.54
1:A:64:THR:HG22	1:A:65:LEU:N	2.22	0.54
1:A:475:GLU:OE1	3:B:1043:MET:HB2	2.08	0.54
1:A:763:THR:HG22	1:A:772:TYR:H	1.72	0.54
2:C:111:VAL:HG13	2:C:329:ILE:CD1	2.38	0.54
2:C:386:VAL:HG13	8:K:34:ARG:HG2	1.90	0.54
3:B:231:GLY:O	3:B:232:ILE:HD13	2.08	0.54
3:B:669:GLN:HA	3:B:669:GLN:HE21	1.71	0.54
3:B:921:LEU:O	3:B:923:GLN:N	2.41	0.54
3:B:974:ARG:O	9:L:22:HIS:HB3	2.08	0.54
3:B:1067:ILE:HG12	3:B:1068:GLY:N	2.23	0.54
5:E:93:ASP:CG	5:E:94:ASN:N	2.61	0.54
5:E:140:ASP:O	5:E:142:VAL:HG13	2.07	0.54
5:E:145:ARG:HB2	5:E:145:ARG:CZ	2.37	0.54
6:F:46:LYS:HE3	6:F:75:ILE:O	2.08	0.54
1:Q:288:LYS:HD3	1:Q:294:PRO:HG3	1.89	0.54
1:Q:312:ASN:HA	1:Q:315:GLY:O	2.08	0.54
2:G:389:THR:HG21	8:W:79:ARG:HH12	1.71	0.54
3:R:5:LEU:HA	3:R:9:GLU:OE2	2.08	0.54
3:R:298:LEU:O	3:R:300:HIS:N	2.40	0.54
3:R:727:MET:CB	3:R:983:ILE:HD12	2.37	0.54
3:R:904:VAL:HG13	10:Y:44:CYS:HB3	1.89	0.54
3:R:963:LEU:HD13	3:R:982:ARG:NH2	2.23	0.54
4:S:39:MET:N	4:S:69:SER:OG	2.40	0.54
8:W:54:ASN:ND2	8:W:58:SER:H	2.06	0.54
1:A:63:ASN:O	1:A:64:THR:O	2.25	0.54
1:A:507:TYR:O	1:A:508:LEU:CB	2.56	0.54
1:A:807:VAL:HG21	3:B:443:ARG:CD	2.35	0.54

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:70:ILE:HA	2:C:73:VAL:CG2	2.36	0.54
2:C:323:THR:HG22	2:C:323:THR:O	2.07	0.54
3:B:305:ALA:O	3:B:308:ARG:HG3	2.08	0.54
3:B:687:ARG:NH1	3:B:687:ARG:HG3	2.22	0.54
3:B:773:ILE:HG12	3:B:813:LYS:CG	2.36	0.54
3:B:800:PRO:HG2	11:P:37:VAL:CA	2.38	0.54
4:D:97:TYR:HB2	4:D:115:LYS:HB2	1.90	0.54
5:E:64:GLY:H	8:K:41:LEU:CD2	2.19	0.54
5:E:87:GLY:O	5:E:88:GLU:HB2	2.07	0.54
8:K:82:LEU:HD12	8:K:84:ASN:HB2	1.89	0.54
8:K:91:SER:OG	8:K:92:LEU:N	2.40	0.54
10:N:60:ILE:O	10:N:62:TYR:N	2.40	0.54
1:Q:326:ILE:HG21	1:Q:462:MET:HG3	1.90	0.54
1:Q:761:TYR:HB3	3:R:622:GLU:OE1	2.07	0.54
1:Q:765:THR:O	1:Q:766:LEU:HD22	2.07	0.54
1:Q:781:PHE:HD2	1:Q:781:PHE:C	2.11	0.54
3:R:139:ILE:HD12	10:Y:61:HIS:CD2	2.42	0.54
3:R:369:LEU:CD2	3:R:384:LEU:HD13	2.38	0.54
3:R:764:LYS:HB3	3:R:815:SER:HB2	1.90	0.54
3:R:974:ARG:O	9:X:22:HIS:HB3	2.07	0.54
4:S:97:TYR:HB2	4:S:115:LYS:HB2	1.89	0.54
5:T:58:ILE:N	5:T:58:ILE:HD12	2.23	0.54
5:T:171:LYS:HG2	5:T:172:LEU:N	2.23	0.54
6:U:60:SER:HB3	6:U:69:ARG:NH1	2.23	0.54
10:Y:21:PHE:O	10:Y:25:VAL:HG23	2.08	0.54
11:Z:39:LYS:O	11:Z:41:THR:N	2.40	0.54
1:A:527:VAL:CG1	1:A:530:VAL:HB	2.38	0.54
1:A:541:ALA:CB	1:A:542:PRO:CD	2.85	0.54
1:A:724:PHE:O	1:A:727:VAL:HB	2.07	0.54
1:A:739:ASN:O	3:B:919:MET:HE3	2.08	0.54
2:C:42:ILE:HG22	2:C:43:VAL:N	2.22	0.54
3:B:123:LEU:HD21	3:B:153:ILE:HD11	1.88	0.54
3:B:291:GLN:C	3:B:293:ILE:H	2.10	0.54
3:B:537:ALA:HB2	3:B:557:HIS:HE2	1.67	0.54
3:B:801:GLU:HG3	11:P:38:ARG:NH2	2.22	0.54
3:B:963:LEU:HD12	3:B:967:THR:O	2.08	0.54
4:D:18:GLU:HG3	4:D:225:LYS:HG2	1.90	0.54
4:D:31:ALA:HA	4:D:35:TYR:CD2	2.43	0.54
4:D:78:TRP:N	4:D:78:TRP:CD1	2.75	0.54
3:R:64:ARG:HG2	3:R:97:TRP:CG	2.43	0.54
3:R:243:SER:CB	3:R:246:PRO:HG3	2.37	0.54

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:265:VAL:O	3:R:269:LEU:HG	2.07	0.54
8:W:39:ARG:HH21	8:W:50:LEU:HD13	1.71	0.54
8:W:53:ILE:HG22	8:W:54:ASN:N	2.23	0.54
1:A:289:HIS:HB2	1:A:295:LEU:CD2	2.36	0.54
1:A:572:PRO:HG2	1:A:573:ARG:HD3	1.90	0.54
2:C:276:ASN:O	2:C:279:GLU:HB3	2.08	0.54
3:B:28:LEU:O	3:B:30:SER:N	2.34	0.54
3:B:1077:TYR:O	3:B:1077:TYR:CD1	2.61	0.54
4:D:12:ARG:NH2	4:D:14:ASP:OD2	2.40	0.54
4:D:222:VAL:HG11	4:D:225:LYS:CD	2.37	0.54
6:F:30:SER:HB2	6:F:34:LEU:HD12	1.88	0.54
11:P:22:PRO:HG2	11:P:23:GLY:H	1.72	0.54
1:Q:343:ILE:HD11	3:R:1001:LEU:CD1	2.37	0.54
1:Q:609:GLU:CD	1:Q:614:TRP:HZ2	2.10	0.54
2:G:133:ASP:C	2:G:135:ASP:H	2.11	0.54
3:R:544:ARG:NH2	3:R:614:GLU:OE1	2.41	0.54
3:R:993:LEU:N	3:R:993:LEU:HD12	2.23	0.54
4:S:94:THR:CG2	4:S:145:LEU:HB2	2.38	0.54
4:S:117:GLU:O	4:S:119:PRO:HD3	2.08	0.54
5:T:53:THR:HG22	5:T:70:VAL:HA	1.90	0.54
5:T:174:TRP:HA	5:T:174:TRP:CE3	2.42	0.54
6:U:18:LYS:HG2	6:U:41:LEU:HB3	1.90	0.54
8:W:36:ILE:O	8:W:40:ALA:HB2	2.07	0.54
1:A:352:ARG:HD3	1:A:406:ILE:CD1	2.33	0.54
1:A:540:LEU:O	1:A:541:ALA:O	2.25	0.54
2:C:115:LYS:O	2:C:115:LYS:HG3	2.08	0.54
3:B:88:ARG:HB3	3:B:90:LEU:HD13	1.89	0.54
3:B:106:ASN:O	3:B:108:GLU:HG3	2.08	0.54
3:B:452:ARG:HH11	3:B:452:ARG:HG3	1.73	0.54
3:B:1064:CYS:SG	3:B:1064:CYS:O	2.65	0.54
5:E:117:THR:HG21	5:E:130:GLU:CG	2.38	0.54
7:H:42:LEU:HD13	7:H:79:ARG:O	2.08	0.54
1:Q:409:ARG:HE	1:Q:412:ILE:HG12	1.71	0.54
1:Q:646:MET:HE2	1:Q:725:ALA:HB2	1.90	0.54
1:Q:830:LEU:HD22	1:Q:846:VAL:HG21	1.89	0.54
3:R:59:ARG:NH1	3:R:107:ILE:HD12	2.23	0.54
3:R:181:SER:O	3:R:182:ASN:HB2	2.08	0.54
3:R:198:VAL:HG12	3:R:198:VAL:O	2.08	0.54
3:R:215:PRO:O	3:R:216:ALA:HB3	2.08	0.54
3:R:739:ILE:O	3:R:739:ILE:HG12	2.07	0.54
3:R:764:LYS:HB3	3:R:815:SER:CB	2.38	0.54

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:1054:ASP:HB3	3:R:1095:TYR:N	2.23	0.54
4:S:2:SER:N	9:X:86:GLU:OE1	2.41	0.54
4:S:68:MET:HE1	4:S:234:GLY:O	2.08	0.54
5:T:38:ILE:HD13	5:T:153:VAL:O	2.08	0.54
1:A:185:GLU:HA	1:A:205:GLU:HG2	1.90	0.54
1:A:308:ARG:HB2	1:A:308:ARG:HH11	1.73	0.54
1:A:692:LEU:HD12	1:A:692:LEU:H	1.73	0.54
1:A:856:PHE:CD1	1:A:858:MET:HB2	2.43	0.54
2:C:55:ALA:O	2:C:58:GLU:N	2.41	0.54
2:C:258:LEU:HB2	2:C:279:GLU:OE2	2.07	0.54
3:B:182:ASN:HD22	3:B:182:ASN:N	2.06	0.54
3:B:295:LYS:HG3	3:B:296:TYR:CD1	2.43	0.54
3:B:1036:LEU:HD13	3:B:1044:LEU:HD23	1.88	0.54
3:B:1074:LYS:CB	3:B:1076:LYS:HE2	2.31	0.54
1:Q:26:ALA:HA	1:Q:74:HIS:CE1	2.43	0.54
1:Q:276:TYR:HD2	1:Q:277:PHE:CD1	2.25	0.54
1:Q:727:VAL:O	1:Q:729:ALA:O	2.26	0.54
1:Q:833:GLU:OE2	1:Q:839:ARG:HB2	2.08	0.54
3:R:353:LEU:HA	3:R:404:VAL:HG11	1.90	0.54
3:R:354:PHE:O	3:R:355:ARG:C	2.46	0.54
3:R:677:LEU:HD12	3:R:992:LYS:HD3	1.88	0.54
3:R:696:HIS:HE2	3:R:753:THR:HG1	1.54	0.54
3:R:814:VAL:HA	3:R:834:ASP:O	2.08	0.54
3:R:1095:TYR:CE1	3:R:1098:LYS:HD2	2.42	0.54
4:S:42:ASP:OD2	4:S:146:ARG:NE	2.38	0.54
4:S:125:SER:O	4:S:127:ASP:N	2.37	0.54
5:T:109:HIS:HD2	5:T:111:SER:OG	1.91	0.54
1:A:74:HIS:O	1:A:75:ILE:HD12	2.08	0.53
1:A:239:LEU:HD12	1:A:276:TYR:HE1	1.73	0.53
1:A:288:LYS:HD3	1:A:294:PRO:HG3	1.89	0.53
1:A:332:ILE:HD12	1:A:332:ILE:N	2.23	0.53
1:A:369:PRO:HB3	1:A:376:ASN:CB	2.28	0.53
1:A:541:ALA:HB1	1:A:542:PRO:CD	2.37	0.53
1:A:732:GLY:O	1:A:733:ALA:C	2.45	0.53
1:A:747:LEU:CD1	1:A:790:LEU:HD11	2.38	0.53
2:C:297:ILE:O	2:C:301:LEU:HG	2.08	0.53
3:B:130:ILE:HA	3:B:133:TYR:CE1	2.43	0.53
3:B:910:LEU:CD2	3:B:911:ASN:N	2.71	0.53
4:D:34:LEU:O	4:D:150:GLY:N	2.41	0.53
4:D:125:SER:C	4:D:127:ASP:H	2.11	0.53
8:K:78:ILE:O	8:K:89:LEU:HA	2.07	0.53

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:N:21:PHE:O	10:N:25:VAL:HG23	2.08	0.53
1:Q:234:ASP:C	1:Q:236:THR:N	2.62	0.53
1:Q:548:GLY:C	1:Q:550:GLN:N	2.61	0.53
2:G:28:ILE:HD13	8:W:14:HIS:CG	2.42	0.53
2:G:109:GLU:O	2:G:113:ALA:CA	2.56	0.53
3:R:588:LEU:HD22	3:R:612:LYS:HG2	1.90	0.53
3:R:800:PRO:HG2	11:Z:37:VAL:CA	2.37	0.53
3:R:803:GLU:HB3	3:R:805:LYS:HZ2	1.71	0.53
3:R:1022:ARG:O	3:R:1022:ARG:HG2	2.08	0.53
3:R:1041:THR:HG23	3:R:1041:THR:O	2.08	0.53
7:V:25:ILE:HD12	7:V:25:ILE:N	2.23	0.53
9:X:3:ILE:CD1	9:X:17:ILE:HG23	2.37	0.53
1:A:238:LYS:O	1:A:242:ILE:HG13	2.09	0.53
1:A:316:LYS:HZ3	3:B:1049:LEU:HD12	1.72	0.53
1:A:358:ILE:O	1:A:362:ARG:HG3	2.08	0.53
1:A:632:PHE:HA	1:A:635:PHE:CE1	2.42	0.53
1:A:763:THR:CG2	1:A:772:TYR:HA	2.39	0.53
1:A:775:SER:OG	1:A:777:GLU:HG2	2.07	0.53
2:C:103:GLY:HA2	2:C:106:ARG:HB3	1.90	0.53
2:C:109:GLU:O	2:C:113:ALA:CA	2.56	0.53
2:C:349:VAL:CG2	2:C:352:LYS:HB2	2.38	0.53
3:B:81:SER:H	3:B:84:GLU:HB2	1.74	0.53
3:B:246:PRO:O	3:B:248:VAL:N	2.35	0.53
3:B:489:LEU:HB3	3:B:494:VAL:HG21	1.89	0.53
5:E:145:ARG:HB2	5:E:145:ARG:NH1	2.23	0.53
6:F:18:LYS:HD2	6:F:45:GLU:HG2	1.90	0.53
6:F:31:SER:CA	6:F:35:GLN:HE21	2.20	0.53
7:H:13:ILE:HG23	7:H:14:HIS:N	2.23	0.53
1:Q:416:ILE:HG12	1:Q:477:LYS:HB2	1.90	0.53
1:Q:540:LEU:O	1:Q:541:ALA:O	2.26	0.53
1:Q:670:VAL:HG23	1:Q:671:GLU:N	2.24	0.53
2:G:64:ILE:HG22	2:G:65:ALA:N	2.22	0.53
2:G:285:GLY:HA2	7:V:50:PRO:HD2	1.89	0.53
3:R:588:LEU:CD1	3:R:612:LYS:HB3	2.32	0.53
3:R:691:ARG:NH1	3:R:756:ARG:HH21	2.06	0.53
3:R:737:SER:HA	3:R:886:GLY:HA3	1.90	0.53
3:R:904:VAL:CG2	10:Y:42:ARG:HE	2.21	0.53
3:R:940:VAL:HG21	3:R:953:LEU:HD11	1.90	0.53
4:S:18:GLU:HG3	4:S:225:LYS:HG2	1.90	0.53
4:S:170:VAL:CG2	4:S:200:GLU:HG3	2.39	0.53
5:T:117:THR:HG21	5:T:130:GLU:CG	2.39	0.53

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:V:15:TYR:HD2	7:V:16:LEU:HD12	1.73	0.53
7:V:44:TRP:O	7:V:79:ARG:HD3	2.07	0.53
1:A:84:VAL:O	1:A:87:VAL:HG12	2.09	0.53
1:A:539:ILE:CB	1:A:545:TYR:HB2	2.35	0.53
1:A:609:GLU:CD	1:A:614:TRP:HZ2	2.11	0.53
2:C:390:MET:HE2	2:C:390:MET:HA	1.89	0.53
3:B:291:GLN:HB3	3:B:295:LYS:CE	2.38	0.53
3:B:419:TRP:HZ3	3:B:712:GLY:CA	2.21	0.53
3:B:906:PRO:HD3	3:B:985:PHE:CZ	2.42	0.53
3:B:1069:TRP:CD1	3:B:1088:LEU:HD13	2.42	0.53
6:F:14:TYR:HE2	6:F:40:TYR:HH	1.56	0.53
7:H:38:ARG:HG2	7:H:38:ARG:NH1	2.23	0.53
8:K:53:ILE:HG22	8:K:54:ASN:N	2.22	0.53
1:Q:358:ILE:HD12	1:Q:403:PRO:HD3	1.91	0.53
1:Q:763:THR:HG22	1:Q:772:TYR:H	1.71	0.53
2:G:24:LEU:N	2:G:25:PRO:HD2	2.24	0.53
2:G:392:PRO:O	2:G:393:ILE:O	2.26	0.53
3:R:153:ILE:HG22	3:R:153:ILE:O	2.07	0.53
3:R:198:VAL:N	3:R:199:PRO:CD	2.71	0.53
3:R:669:GLN:C	3:R:671:ALA:H	2.10	0.53
3:R:680:TYR:CE2	3:R:692:ALA:HB1	2.43	0.53
3:R:696:HIS:CG	4:S:57:ILE:HD11	2.42	0.53
3:R:804:VAL:HG23	3:R:847:VAL:HG23	1.90	0.53
3:R:926:GLU:HB3	3:R:988:VAL:HG22	1.90	0.53
3:R:1061:CYS:N	3:R:1088:LEU:HD23	2.24	0.53
3:R:1087:ASN:C	3:R:1088:LEU:HG	2.28	0.53
4:S:34:LEU:O	4:S:150:GLY:N	2.40	0.53
5:T:81:VAL:O	5:T:82:GLN:HB2	2.09	0.53
1:A:728:MET:HE3	3:B:913:HIS:ND1	2.23	0.53
1:A:838:VAL:HG13	2:C:70:ILE:HD11	1.91	0.53
2:C:120:PRO:CB	2:C:256:SER:HB3	2.37	0.53
2:C:349:VAL:HG13	2:C:353:HIS:CD2	2.44	0.53
3:B:63:ILE:HG13	3:B:98:LEU:HB2	1.90	0.53
3:B:85:ALA:CB	3:B:92:TYR:HB2	2.39	0.53
3:B:541:ARG:NH2	3:B:557:HIS:HD2	2.06	0.53
3:B:557:HIS:ND1	3:B:566:VAL:HG13	2.23	0.53
3:B:558:ILE:HG12	3:B:567:HIS:HD2	1.72	0.53
3:B:657:TYR:HA	3:B:659:GLU:OE2	2.07	0.53
3:B:895:VAL:HG11	4:D:34:LEU:CD2	2.39	0.53
4:D:16:VAL:HG13	4:D:167:TYR:CE1	2.44	0.53
4:D:42:ASP:OD2	4:D:146:ARG:NE	2.39	0.53

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:169:LYS:O	4:D:219:ILE:HA	2.08	0.53
1:Q:220:ARG:N	1:Q:221:PRO:CD	2.70	0.53
1:Q:417:VAL:CG1	1:Q:464:LEU:CD1	2.86	0.53
1:Q:537:PRO:HB2	1:Q:540:LEU:CD2	2.38	0.53
1:Q:647:ARG:NH2	4:S:211:ARG:HH12	2.07	0.53
2:G:31:ASP:C	2:G:33:LYS:N	2.61	0.53
2:G:64:ILE:CG2	2:G:65:ALA:N	2.72	0.53
2:G:374:ILE:HG22	2:G:375:ILE:N	2.22	0.53
3:R:188:LYS:HA	3:R:203:GLU:O	2.09	0.53
3:R:214:PHE:HZ	3:R:297:PHE:CA	2.20	0.53
3:R:480:ILE:HD11	3:R:550:SER:CB	2.38	0.53
4:S:13:ILE:CG1	4:S:238:PRO:HB2	2.37	0.53
4:S:96:ILE:HG22	4:S:116:SER:HA	1.90	0.53
1:A:18:GLU:O	1:A:22:MET:HB3	2.09	0.53
1:A:220:ARG:N	1:A:221:PRO:CD	2.72	0.53
1:A:245:ILE:CD1	1:A:268:LEU:HD13	2.38	0.53
1:A:878:TRP:CE2	3:R:377:ARG:HD3	2.44	0.53
3:B:737:SER:HA	3:B:886:GLY:HA3	1.89	0.53
3:B:739:ILE:O	3:B:739:ILE:HG12	2.08	0.53
3:B:1054:ASP:HB3	3:B:1095:TYR:N	2.24	0.53
4:D:69:SER:O	4:D:70:GLU:C	2.46	0.53
8:K:46:GLY:O	8:K:47:ALA:O	2.26	0.53
11:P:42:ILE:HG23	11:P:42:ILE:O	2.09	0.53
1:Q:489:PRO:CA	1:Q:858:MET:HG3	2.37	0.53
1:Q:539:ILE:CB	1:Q:545:TYR:HB2	2.36	0.53
2:G:42:ILE:HG22	2:G:43:VAL:N	2.23	0.53
2:G:57:LYS:HA	2:G:57:LYS:CE	2.35	0.53
3:R:88:ARG:HB3	3:R:90:LEU:HD13	1.91	0.53
3:R:747:ARG:HD3	10:Y:8:PHE:HA	1.91	0.53
4:S:107:ARG:N	4:S:133:LEU:O	2.32	0.53
6:U:49:ALA:O	6:U:53:GLN:HB2	2.09	0.53
6:U:55:VAL:O	6:U:59:LEU:HB2	2.08	0.53
10:Y:22:ILE:HD13	10:Y:22:ILE:H	1.73	0.53
1:A:331:ASN:O	1:A:332:ILE:CB	2.47	0.53
1:A:407:ILE:C	1:A:407:ILE:HD12	2.29	0.53
2:C:388:LEU:CD1	8:K:34:ARG:HG3	2.38	0.53
3:B:167:LEU:HD12	3:B:190:ILE:HD12	1.90	0.53
3:B:356:VAL:HG13	3:B:357:ALA:N	2.24	0.53
3:B:1046:LYS:NZ	3:B:1051:ASP:OD2	2.38	0.53
3:B:1061:CYS:HB2	3:B:1079:CYS:SG	2.49	0.53
4:D:195:LEU:O	4:D:196:SER:O	2.26	0.53

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:57:GLU:C	6:F:59:LEU:H	2.12	0.53
7:H:15:TYR:HD2	7:H:16:LEU:HD12	1.74	0.53
8:K:50:LEU:H	8:K:50:LEU:HD12	1.73	0.53
1:Q:87:VAL:HG13	1:Q:88:LYS:H	1.73	0.53
1:Q:206:TRP:CZ3	3:R:1108:ILE:HG21	2.44	0.53
1:Q:249:LEU:HD12	1:Q:269:LEU:HD11	1.91	0.53
1:Q:308:ARG:HB2	1:Q:308:ARG:HH11	1.73	0.53
1:Q:475:GLU:OE1	3:R:1043:MET:N	2.40	0.53
2:G:238:LYS:O	2:G:239:ARG:HB2	2.08	0.53
2:G:390:MET:HG3	5:T:56:GLU:HG2	1.89	0.53
3:R:537:ALA:HB1	3:R:541:ARG:CZ	2.38	0.53
3:R:768:GLY:O	3:R:769:GLN:HB2	2.08	0.53
3:R:895:VAL:HG11	4:S:34:LEU:CG	2.39	0.53
3:R:975:THR:O	4:S:26:ASN:ND2	2.41	0.53
3:R:978:LYS:HZ1	4:S:205:LEU:HD13	1.73	0.53
4:S:78:TRP:N	4:S:78:TRP:CD1	2.76	0.53
4:S:153:HIS:O	4:S:155:LYS:N	2.36	0.53
4:S:194:LYS:C	4:S:196:SER:H	2.10	0.53
5:T:174:TRP:HA	5:T:174:TRP:HE3	1.73	0.53
6:U:23:ASP:O	6:U:26:ARG:HB2	2.09	0.53
1:A:237:HIS:HE1	1:A:290:ARG:HH21	1.57	0.53
1:A:532:ILE:HD12	9:L:12:TYR:OH	2.09	0.53
1:A:664:GLU:OE2	1:A:667:ARG:HD3	2.09	0.53
1:A:820:GLN:O	1:A:824:ILE:HG12	2.09	0.53
2:C:70:ILE:HD13	2:C:71:GLY:N	2.24	0.53
3:B:134:THR:HG22	3:B:137:LYS:HG3	1.89	0.53
3:B:904:VAL:HG21	10:N:42:ARG:HG2	1.89	0.53
3:B:1012:LEU:HD13	3:B:1012:LEU:C	2.28	0.53
4:D:117:GLU:O	4:D:119:PRO:HD3	2.08	0.53
5:E:87:GLY:HA2	6:F:40:TYR:HE1	1.73	0.53
5:E:168:TYR:O	5:E:175:ILE:HD13	2.09	0.53
9:L:38:VAL:O	9:L:40:PHE:N	2.42	0.53
9:L:61:GLY:O	9:L:62:SER:C	2.46	0.53
3:R:91:THR:HA	3:R:155:ASN:H	1.73	0.53
3:R:167:LEU:HD12	3:R:190:ILE:HD12	1.91	0.53
4:S:3:ILE:CD1	9:X:83:TYR:HA	2.39	0.53
4:S:80:GLU:O	4:S:83:ILE:HB	2.09	0.53
5:T:102:GLY:HA2	6:U:40:TYR:CB	2.39	0.53
7:V:42:LEU:HD13	7:V:79:ARG:O	2.08	0.53
9:X:38:VAL:O	9:X:40:PHE:N	2.42	0.53
9:X:92:LYS:N	9:X:92:LYS:HD2	2.24	0.53

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:369:PRO:HG3	1:A:389:ARG:HA	1.90	0.53
1:A:656:ASP:HA	1:A:659:LYS:CD	2.39	0.53
1:A:872:PHE:HA	1:A:876:VAL:CG2	2.39	0.53
2:C:16:LYS:HZ3	3:R:75:ARG:HH12	1.56	0.53
3:B:282:ARG:HD3	3:B:285:ARG:CD	2.39	0.53
3:B:286:ILE:O	3:B:289:ALA:HB3	2.09	0.53
3:B:707:ALA:C	3:B:709:ASP:H	2.12	0.53
4:D:21:PRO:HG3	9:L:79:MET:CE	2.39	0.53
4:D:94:THR:OG1	4:D:95:LYS:N	2.42	0.53
5:E:141:LYS:HB2	5:E:172:LEU:CD1	2.38	0.53
6:F:55:VAL:O	6:F:59:LEU:HB2	2.08	0.53
7:H:42:LEU:HD22	7:H:79:ARG:O	2.09	0.53
9:L:3:ILE:CD1	9:L:17:ILE:HG23	2.38	0.53
11:P:8:LYS:HD3	11:P:13:PHE:HB3	1.91	0.53
1:Q:352:ARG:HA	1:Q:406:ILE:HA	1.91	0.53
1:Q:377:TYR:CE1	1:Q:385:ARG:HG2	2.43	0.53
1:Q:525:LEU:C	1:Q:527:VAL:N	2.63	0.53
1:Q:637:ARG:HD3	1:Q:640:GLU:OE1	2.08	0.53
2:G:30:ASP:O	2:G:31:ASP:HB3	2.09	0.53
2:G:109:GLU:O	2:G:113:ALA:N	2.41	0.53
3:R:52:GLU:CB	3:R:56:LEU:HB3	2.38	0.53
3:R:220:LYS:O	3:R:275:ARG:NH1	2.42	0.53
3:R:592:GLU:O	3:R:596:LYS:HG3	2.09	0.53
3:R:1061:CYS:HB3	3:R:1064:CYS:C	2.30	0.53
3:R:1061:CYS:HA	3:R:1088:LEU:HD23	1.91	0.53
3:R:1077:TYR:O	3:R:1077:TYR:CD1	2.62	0.53
4:S:33:MET:O	4:S:150:GLY:HA3	2.09	0.53
5:T:88:GLU:H	5:T:99:VAL:CG1	2.22	0.53
5:T:134:LYS:HD3	5:T:174:TRP:HE1	1.74	0.53
10:Y:13:LEU:O	10:Y:14:ILE:HD13	2.08	0.53
10:Y:62:TYR:O	10:Y:63:THR:OG1	2.15	0.53
1:A:342:ILE:HD13	1:A:342:ILE:N	2.24	0.53
1:A:345:LYS:HG2	1:A:410:HIS:CD2	2.44	0.53
1:A:552:ILE:C	1:A:554:ALA:H	2.11	0.53
1:A:607:GLN:O	1:A:609:GLU:N	2.42	0.53
1:A:667:ARG:HG2	1:A:667:ARG:HH11	1.74	0.53
1:A:820:GLN:HA	1:A:823:LEU:HD11	1.90	0.53
1:A:828:SER:O	1:A:830:LEU:N	2.37	0.53
2:C:287:GLU:OE1	7:H:67:ARG:NH2	2.41	0.53
3:B:104:GLU:O	3:B:105:ASN:CB	2.57	0.53
3:B:461:GLY:O	3:B:464:SER:HB3	2.09	0.53

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:474:ALA:HB2	3:B:578:PRO:HG3	1.91	0.53
3:B:555:VAL:CG2	3:B:568:VAL:HG22	2.39	0.53
3:B:1061:CYS:HB3	3:B:1065:GLY:CA	2.39	0.53
6:F:23:ASP:O	6:F:26:ARG:HB2	2.09	0.53
7:H:65:ILE:N	7:H:65:ILE:CD1	2.72	0.53
1:Q:249:LEU:HD21	1:Q:265:LEU:CB	2.39	0.53
1:Q:365:VAL:HG11	1:Q:401:LEU:CD1	2.30	0.53
1:Q:469:SER:O	1:Q:473:ILE:HG13	2.09	0.53
1:Q:626:TRP:O	1:Q:627:LEU:C	2.47	0.53
1:Q:825:ASN:O	1:Q:828:SER:HB3	2.08	0.53
3:R:5:LEU:HD13	3:R:5:LEU:N	2.23	0.53
3:R:555:VAL:CG2	3:R:568:VAL:HG22	2.38	0.53
3:R:669:GLN:HA	3:R:669:GLN:HE21	1.73	0.53
3:R:725:ALA:CB	3:R:906:PRO:HB3	2.38	0.53
8:W:77:THR:HG23	8:W:90:LEU:O	2.08	0.53
10:Y:7:CYS:CB	10:Y:45:CYS:SG	2.96	0.53
1:A:26:ALA:HA	1:A:74:HIS:CE1	2.43	0.53
1:A:451:PRO:HG2	1:A:605:ASN:OD1	2.09	0.53
1:A:575:CYS:SG	1:A:584:SER:HB3	2.49	0.53
1:A:612:LEU:HD23	1:A:612:LEU:C	2.29	0.53
2:C:368:GLY:O	2:C:372:ASN:HB2	2.08	0.53
2:C:382:GLY:C	2:C:384:GLY:H	2.12	0.53
3:B:64:ARG:N	3:B:97:TRP:HB2	2.24	0.53
3:B:354:PHE:O	3:B:355:ARG:C	2.47	0.53
3:B:592:GLU:O	3:B:596:LYS:HG3	2.08	0.53
3:B:628:LEU:H	3:B:628:LEU:CD2	2.08	0.53
3:B:853:THR:OG1	11:P:33:ILE:HD13	2.08	0.53
7:H:69:SER:HB2	7:H:75:VAL:CG2	2.38	0.53
11:P:6:CYS:O	11:P:37:VAL:HG12	2.09	0.53
1:Q:93:PHE:CE2	1:Q:204:PRO:HB3	2.44	0.53
1:Q:649:GLU:HA	1:Q:652:SER:OG	2.09	0.53
1:Q:781:PHE:C	1:Q:781:PHE:CD2	2.82	0.53
1:Q:819:MET:HA	1:Q:822:ARG:HE	1.74	0.53
1:Q:828:SER:O	1:Q:830:LEU:N	2.39	0.53
3:R:14:ILE:HG23	3:R:15:GLU:N	2.24	0.53
3:R:92:TYR:OH	3:R:128:ASP:OD2	2.26	0.53
3:R:234:THR:O	3:R:237:ASP:HB2	2.09	0.53
3:R:355:ARG:HH11	3:R:355:ARG:CB	2.19	0.53
3:R:433:LEU:HD12	3:R:435:ARG:HH22	1.71	0.53
3:R:545:ARG:CZ	3:R:581:ILE:HG21	2.39	0.53
3:R:804:VAL:C	3:R:805:LYS:HD2	2.29	0.53

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:1069:TRP:NE1	3:R:1088:LEU:HD13	2.23	0.53
4:S:66:PRO:HG2	10:Y:13:LEU:HD11	1.91	0.53
4:S:80:GLU:HA	4:S:83:ILE:CD1	2.39	0.53
6:U:47:CYS:HB2	6:U:52:ALA:HB2	1.90	0.53
3:B:198:VAL:N	3:B:199:PRO:CD	2.73	0.52
3:B:854:GLU:HG3	11:P:24:VAL:HG11	1.90	0.52
3:B:904:VAL:HG21	10:N:42:ARG:NE	2.20	0.52
3:B:978:LYS:HG2	4:D:166:TYR:HE2	1.75	0.52
3:B:1074:LYS:HB2	3:B:1076:LYS:HG3	1.91	0.52
4:D:174:ALA:O	4:D:195:LEU:HD13	2.08	0.52
6:F:18:LYS:HG2	6:F:41:LEU:HB3	1.90	0.52
8:K:90:LEU:N	8:K:90:LEU:CD2	2.56	0.52
9:L:5:ILE:O	9:L:5:ILE:HD13	2.10	0.52
9:L:64:THR:CG2	9:L:65:PRO:HD2	2.32	0.52
1:Q:184:LEU:HD22	1:Q:204:PRO:HB2	1.90	0.52
1:Q:279:ASN:HB2	1:Q:297:THR:HG21	1.92	0.52
1:Q:672:VAL:O	1:Q:673:ASP:C	2.48	0.52
2:G:38:ASN:N	2:G:38:ASN:ND2	2.56	0.52
2:G:120:PRO:CA	2:G:275:ASN:ND2	2.67	0.52
3:R:27:HIS:O	3:R:30:SER:HB3	2.09	0.52
3:R:305:ALA:O	3:R:308:ARG:HG3	2.08	0.52
3:R:895:VAL:HG11	4:S:34:LEU:CD2	2.39	0.52
3:R:898:PRO:HB2	3:R:970:VAL:HG21	1.91	0.52
4:S:38:ILE:O	4:S:147:LEU:HD23	2.09	0.52
4:S:98:ILE:HB	4:S:141:LEU:HD11	1.90	0.52
4:S:237:LYS:O	4:S:240:ARG:HB3	2.08	0.52
5:T:77:TYR:O	5:T:78:VAL:HG23	2.09	0.52
1:A:308:ARG:NH2	3:B:1012:LEU:HD11	2.23	0.52
1:A:335:ASP:OD1	1:A:482:VAL:HB	2.09	0.52
1:A:646:MET:HE2	1:A:725:ALA:HB2	1.90	0.52
2:C:352:LYS:O	2:C:354:LEU:N	2.42	0.52
3:B:537:ALA:CB	3:B:557:HIS:NE2	2.66	0.52
3:B:1080:PRO:C	3:B:1081:ILE:HG13	2.30	0.52
4:D:39:MET:N	4:D:69:SER:OG	2.42	0.52
5:E:46:LEU:HD11	5:E:77:TYR:HB2	1.91	0.52
2:G:111:VAL:HG13	2:G:329:ILE:CD1	2.38	0.52
2:G:115:LYS:O	2:G:115:LYS:HG3	2.08	0.52
3:R:64:ARG:HB2	3:R:97:TRP:CD1	2.43	0.52
3:R:245:ASP:CG	3:R:515:LEU:HG	2.29	0.52
3:R:590:THR:O	3:R:593:ASP:HB2	2.10	0.52
3:R:855:THR:HB	3:R:857:GLU:CG	2.39	0.52

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:240:ARG:O	4:S:243:LEU:HB3	2.09	0.52
11:Z:20:VAL:C	11:Z:21:LEU:HD23	2.30	0.52
1:A:301:ARG:O	1:A:302:LEU:CG	2.56	0.52
1:A:759:ARG:H	1:A:779:ARG:HH21	1.56	0.52
1:A:807:VAL:HG13	3:B:443:ARG:NH1	2.24	0.52
1:A:856:PHE:HB3	1:A:859:TYR:CD1	2.43	0.52
1:A:859:TYR:HB2	2:C:64:ILE:HG13	1.91	0.52
2:C:383:THR:O	5:E:61:PHE:HZ	1.92	0.52
3:B:17:TYR:HB2	3:B:604:PHE:CD1	2.45	0.52
3:B:165:GLU:O	3:B:432:SER:HB2	2.09	0.52
3:B:174:VAL:HG11	3:B:325:LEU:HD23	1.90	0.52
3:B:181:SER:O	3:B:182:ASN:HB2	2.09	0.52
3:B:184:THR:N	3:B:207:ASP:O	2.42	0.52
3:B:380:ALA:O	3:B:383:ALA:N	2.42	0.52
3:B:432:SER:O	3:B:435:ARG:NE	2.43	0.52
3:B:935:LEU:HD23	10:N:43:TYR:HB3	1.91	0.52
4:D:98:ILE:HB	4:D:141:LEU:HD11	1.91	0.52
4:D:165:ARG:HE	4:D:227:ILE:HB	1.74	0.52
6:F:30:SER:OG	6:F:31:SER:N	2.42	0.52
7:H:43:PRO:HB2	7:H:78:TYR:O	2.09	0.52
1:Q:203:ARG:HG3	1:Q:203:ARG:NH1	2.16	0.52
1:Q:206:TRP:CH2	3:R:1108:ILE:HG21	2.45	0.52
1:Q:409:ARG:HH21	1:Q:412:ILE:CG1	2.22	0.52
1:Q:856:PHE:HD1	1:Q:858:MET:HB2	1.73	0.52
1:Q:872:PHE:CD2	1:Q:876:VAL:HG21	2.43	0.52
2:G:132:ARG:HA	2:G:249:TYR:HD1	1.71	0.52
2:G:288:ALA:HA	7:V:16:LEU:O	2.10	0.52
3:R:193:THR:HG21	3:R:197:ARG:N	2.24	0.52
3:R:196:TYR:CE2	3:R:303:THR:HG21	2.44	0.52
3:R:582:VAL:CG1	3:R:586:ASN:H	2.08	0.52
3:R:603:THR:O	3:R:604:PHE:C	2.46	0.52
3:R:688:THR:HG23	3:R:688:THR:O	2.10	0.52
3:R:840:ARG:HH11	3:R:1021:ALA:HB2	1.73	0.52
3:R:1061:CYS:HB2	3:R:1079:CYS:SG	2.49	0.52
4:S:30:ARG:NH1	9:X:21:ASP:OD1	2.42	0.52
4:S:106:PRO:HA	4:S:134:GLY:HA2	1.90	0.52
4:S:206:CYS:O	4:S:207:GLU:CB	2.57	0.52
6:U:30:SER:HB2	6:U:34:LEU:HD12	1.90	0.52
6:U:46:LYS:HE3	6:U:75:ILE:O	2.10	0.52
10:Y:35:LEU:O	10:Y:38:LEU:O	2.27	0.52
1:A:19:ILE:HA	1:A:22:MET:CE	2.39	0.52

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:52:ILE:HD13	1:A:52:ILE:H	1.74	0.52
1:A:734:ARG:HG3	3:B:917:SER:HB3	1.92	0.52
2:C:311:ARG:NH1	7:H:71:LEU:HD13	2.24	0.52
2:C:374:ILE:HG22	2:C:375:ILE:N	2.23	0.52
2:C:386:VAL:HG21	8:K:31:GLU:HA	1.91	0.52
3:B:28:LEU:C	3:B:30:SER:H	2.11	0.52
3:B:112:GLU:O	3:B:114:VAL:HG23	2.10	0.52
3:B:551:ASP:OD2	3:B:551:ASP:N	2.42	0.52
3:B:930:GLY:HA2	10:N:47:ARG:NH2	2.24	0.52
4:D:80:GLU:O	4:D:83:ILE:HB	2.10	0.52
4:D:160:SER:HB3	4:D:233:VAL:HG12	1.90	0.52
5:E:174:TRP:CE3	5:E:174:TRP:HA	2.44	0.52
6:F:48:ASP:H	6:F:51:SER:HG	1.56	0.52
9:L:24:LEU:O	9:L:28:ILE:HG12	2.09	0.52
1:Q:49:LEU:HD22	1:Q:71:HIS:O	2.09	0.52
1:Q:354:THR:O	1:Q:355:PRO:O	2.28	0.52
1:Q:414:GLY:HA2	1:Q:434:ARG:NE	2.24	0.52
1:Q:607:GLN:O	1:Q:609:GLU:N	2.42	0.52
1:Q:761:TYR:O	3:R:622:GLU:OE1	2.28	0.52
2:G:337:GLU:OE2	2:G:339:ASN:ND2	2.42	0.52
2:G:368:GLY:O	2:G:372:ASN:HB2	2.10	0.52
3:R:94:ALA:O	3:R:119:LEU:N	2.43	0.52
3:R:643:TRP:CZ3	3:R:645:PRO:HB2	2.44	0.52
3:R:749:MET:HE1	3:R:907:ASP:HB3	1.92	0.52
3:R:852:ILE:HD12	11:Z:35:PHE:HA	1.91	0.52
3:R:871:ILE:HG22	3:R:872:PRO:HD2	1.90	0.52
3:R:1059:TYR:CD2	3:R:1090:PRO:HG3	2.44	0.52
4:S:22:LEU:C	4:S:24:PHE:H	2.13	0.52
5:T:17:GLU:CB	5:T:20:LYS:HD2	2.39	0.52
1:A:420:ASN:HD22	1:A:421:ARG:N	2.07	0.52
1:A:558:LYS:HE3	3:R:106:ASN:H	1.74	0.52
1:A:563:HIS:CD2	1:A:587:VAL:HG13	2.44	0.52
1:A:720:ASP:C	1:A:722:PHE:H	2.12	0.52
2:C:392:PRO:HB3	5:E:22:LEU:CD1	2.37	0.52
3:B:64:ARG:H	3:B:97:TRP:CB	2.22	0.52
3:B:215:PRO:O	3:B:216:ALA:HB3	2.09	0.52
3:B:221:ILE:CG2	3:B:226:LEU:HG	2.30	0.52
3:B:530:TYR:CD2	3:B:530:TYR:O	2.62	0.52
3:B:869:LEU:HD11	4:D:56:GLU:CB	2.32	0.52
4:D:172:ILE:HG21	4:D:195:LEU:HD13	1.90	0.52
5:E:113:ILE:O	5:E:164:MET:HB2	2.09	0.52

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:14:TYR:HD1	6:F:14:TYR:H	1.57	0.52
6:F:78:THR:HB	6:F:82:GLU:OE2	2.09	0.52
1:Q:249:LEU:HD21	1:Q:265:LEU:HB2	1.90	0.52
2:G:42:ILE:H	2:G:42:ILE:CD1	2.21	0.52
2:G:311:ARG:HH11	2:G:311:ARG:HG3	1.74	0.52
3:R:834:ASP:O	3:R:835:THR:HB	2.10	0.52
3:R:1085:LYS:C	3:R:1087:ASN:H	2.11	0.52
4:S:133:LEU:HD21	4:S:139:ILE:HD11	1.91	0.52
4:S:250:ILE:O	4:S:254:GLU:HB2	2.10	0.52
1:A:94:LEU:HD11	1:A:180:ILE:HG23	1.91	0.52
1:A:212:LEU:CD2	1:A:242:ILE:HD13	2.40	0.52
1:A:791:LYS:HB2	1:A:794:GLU:HG3	1.91	0.52
3:B:222:PRO:HD2	3:B:225:ILE:HD12	1.90	0.52
3:B:391:THR:O	3:B:394:ILE:HG22	2.09	0.52
3:B:717:PRO:HD3	10:N:53:VAL:HG11	1.92	0.52
3:B:1014:ARG:HG3	3:B:1095:TYR:CE2	2.43	0.52
5:E:17:GLU:HG2	5:E:20:LYS:HZ2	1.74	0.52
5:E:127:ILE:H	5:E:136:ILE:HB	1.74	0.52
10:N:21:PHE:CZ	10:N:38:LEU:HD13	2.44	0.52
1:Q:417:VAL:CG1	1:Q:464:LEU:HD13	2.39	0.52
2:G:42:ILE:HD12	2:G:42:ILE:N	2.25	0.52
3:R:112:GLU:O	3:R:114:VAL:HG23	2.09	0.52
3:R:407:ARG:NH2	3:R:433:LEU:HG	2.24	0.52
3:R:544:ARG:NH2	3:R:620:GLU:OE2	2.43	0.52
1:A:420:ASN:ND2	1:A:421:ARG:N	2.58	0.52
1:A:465:HIS:HD2	3:B:1048:ARG:HD2	1.75	0.52
1:A:487:ILE:O	1:A:858:MET:HE2	2.10	0.52
1:A:785:SER:H	1:A:788:THR:HB	1.75	0.52
2:C:38:ASN:N	2:C:38:ASN:ND2	2.57	0.52
2:C:65:ALA:HB1	8:K:19:PHE:CZ	2.45	0.52
2:C:331:ARG:HH11	2:C:331:ARG:CB	2.22	0.52
3:B:625:TYR:N	3:B:625:TYR:CD1	2.78	0.52
3:B:680:TYR:CE2	3:B:692:ALA:HB1	2.45	0.52
3:B:683:ASN:C	3:B:685:GLN:H	2.13	0.52
4:D:69:SER:HB2	4:D:236:LEU:HD11	1.91	0.52
4:D:134:GLY:O	4:D:135:THR:C	2.48	0.52
1:Q:319:ASP:HB3	3:R:1005:ALA:O	2.10	0.52
1:Q:372:TRP:HB3	1:Q:373:PRO:HD3	1.91	0.52
1:Q:468:GLN:HB2	3:R:1047:ASP:OD2	2.10	0.52
1:Q:507:TYR:O	1:Q:508:LEU:HB2	2.08	0.52
1:Q:687:ILE:CG1	1:Q:695:SER:HB3	2.40	0.52

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:739:ASN:HB2	3:R:919:MET:SD	2.49	0.52
1:Q:763:THR:CG2	1:Q:772:TYR:HA	2.40	0.52
3:R:291:GLN:HB3	3:R:295:LYS:CE	2.39	0.52
3:R:708:LEU:CD1	3:R:713:TYR:HB3	2.38	0.52
3:R:799:SER:O	3:R:802:VAL:HG23	2.10	0.52
4:S:133:LEU:HD21	4:S:139:ILE:HG12	1.90	0.52
4:S:172:ILE:HD12	4:S:172:ILE:N	2.25	0.52
4:S:203:CYS:O	4:S:204:THR:HG23	2.09	0.52
5:T:39:LEU:HD23	5:T:41:ASP:N	2.24	0.52
9:X:8:SER:HB2	9:X:13:LEU:CD1	2.39	0.52
1:A:6:ILE:HD13	3:B:1113:LEU:HD22	1.91	0.52
1:A:374:GLY:O	1:A:410:HIS:HB2	2.10	0.52
1:A:428:ILE:HG23	1:A:452:PRO:HB2	1.92	0.52
1:A:830:LEU:HD22	1:A:846:VAL:HG21	1.91	0.52
2:C:132:ARG:HH11	2:C:132:ARG:HG3	1.75	0.52
2:C:327:ARG:CZ	2:C:334:VAL:HG23	2.39	0.52
2:C:337:GLU:OE2	2:C:339:ASN:CG	2.47	0.52
3:B:64:ARG:HG2	3:B:97:TRP:CG	2.45	0.52
3:B:81:SER:O	3:B:84:GLU:N	2.37	0.52
3:B:234:THR:O	3:B:237:ASP:HB2	2.10	0.52
3:B:321:LYS:HD2	3:B:330:ARG:NE	2.24	0.52
3:B:713:TYR:OH	3:B:718:ALA:HB3	2.08	0.52
3:B:814:VAL:HA	3:B:834:ASP:O	2.10	0.52
3:B:911:ASN:HD22	3:B:913:HIS:H	1.55	0.52
3:B:959:ARG:HG2	3:B:959:ARG:NH1	2.25	0.52
3:B:993:LEU:N	3:B:993:LEU:HD12	2.24	0.52
3:B:1047:ASP:HA	3:B:1051:ASP:CB	2.39	0.52
4:D:96:ILE:HG22	4:D:116:SER:HA	1.91	0.52
5:E:17:GLU:CB	5:E:20:LYS:HD2	2.39	0.52
1:Q:13:ILE:HD11	1:Q:86:LEU:CD1	2.40	0.52
3:R:214:PHE:CZ	3:R:297:PHE:HA	2.40	0.52
3:R:544:ARG:HG3	3:R:544:ARG:NH1	2.18	0.52
5:T:88:GLU:HA	5:T:141:LYS:HA	1.92	0.52
8:W:38:ALA:HB1	8:W:42:GLN:HE22	1.75	0.52
1:A:687:ILE:CG1	1:A:695:SER:HB3	2.40	0.52
1:A:741:THR:O	1:A:743:MET:N	2.43	0.52
2:C:240:ALA:O	2:C:241:ILE:HG13	2.10	0.52
2:C:383:THR:CG2	3:B:1042:ALA:H	2.21	0.52
3:B:448:THR:HG22	3:B:449:GLN:H	1.74	0.52
3:B:708:LEU:CD1	3:B:713:TYR:HB3	2.38	0.52
4:D:187:VAL:HG21	14:D:1001:F3S:S4	2.50	0.52

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:13:ILE:HG23	5:E:25:ILE:HG21	1.91	0.52
1:Q:332:ILE:HD12	1:Q:332:ILE:N	2.25	0.52
2:G:132:ARG:HH11	2:G:132:ARG:HG3	1.74	0.52
2:G:366:PHE:CZ	2:G:375:ILE:HD12	2.45	0.52
4:S:50:ASN:ND2	10:Y:64:ARG:NH1	2.57	0.52
4:S:174:ALA:O	4:S:195:LEU:HD13	2.09	0.52
4:S:180:VAL:HG21	4:S:190:LEU:HG	1.90	0.52
11:Z:37:VAL:HG22	11:Z:38:ARG:H	1.74	0.52
11:Z:37:VAL:HG22	11:Z:38:ARG:N	2.25	0.52
1:A:500:GLN:CG	1:A:501:ASP:H	2.22	0.52
1:A:741:THR:O	1:A:742:GLN:C	2.48	0.52
1:A:749:GLN:HA	1:A:781:PHE:HA	1.92	0.52
2:C:42:ILE:CD1	2:C:42:ILE:H	2.23	0.52
2:C:145:GLU:HG2	2:C:240:ALA:N	2.21	0.52
2:C:389:THR:HG22	8:K:77:THR:HB	1.92	0.52
3:B:256:LEU:C	3:B:258:GLN:H	2.13	0.52
3:B:603:THR:O	3:B:604:PHE:C	2.49	0.52
3:B:729:PHE:CD2	3:B:730:THR:HG23	2.45	0.52
4:D:112:LYS:HB3	4:D:126:GLY:O	2.08	0.52
4:D:182:VAL:O	4:D:184:PRO:HD3	2.09	0.52
5:E:108:VAL:HG22	5:E:162:LEU:HB2	1.91	0.52
9:L:69:LEU:HD23	9:L:69:LEU:C	2.30	0.52
1:Q:27:ILE:HB	1:Q:75:ILE:HD12	1.91	0.52
1:Q:785:SER:O	1:Q:787:ARG:N	2.43	0.52
1:Q:820:GLN:HA	1:Q:823:LEU:HD11	1.91	0.52
2:G:390:MET:HE2	2:G:390:MET:HA	1.91	0.52
3:R:63:ILE:HA	3:R:98:LEU:HA	1.91	0.52
3:R:69:ARG:O	3:R:70:VAL:HG13	2.10	0.52
3:R:345:LEU:O	3:R:346:ALA:C	2.48	0.52
3:R:582:VAL:HG11	3:R:633:LEU:HD11	1.91	0.52
3:R:658:PRO:O	3:R:660:HIS:N	2.41	0.52
3:R:959:ARG:HG2	3:R:959:ARG:NH1	2.25	0.52
3:R:1101:ILE:O	3:R:1105:MET:HG3	2.10	0.52
4:S:254:GLU:HG3	9:X:77:ARG:HH12	1.75	0.52
5:T:39:LEU:CD2	5:T:41:ASP:H	2.20	0.52
8:W:35:VAL:CG2	8:W:36:ILE:N	2.73	0.52
8:W:82:LEU:CD1	8:W:84:ASN:HB2	2.39	0.52
10:Y:60:ILE:O	10:Y:62:TYR:N	2.42	0.52
1:A:206:TRP:CH2	3:B:1108:ILE:HG21	2.45	0.51
1:A:387:ASP:OD2	1:A:389:ARG:N	2.43	0.51
1:A:575:CYS:SG	1:A:582:HIS:HB2	2.51	0.51

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:647:ARG:HB2	1:A:650:ASP:CG	2.30	0.51
3:B:139:ILE:HD12	10:N:61:HIS:NE2	2.25	0.51
3:B:160:VAL:HG21	3:B:426:LEU:HD23	1.91	0.51
3:B:206:LYS:HE3	3:B:220:LYS:HZ2	1.75	0.51
3:B:457:GLU:OE1	3:B:457:GLU:N	2.43	0.51
3:B:852:ILE:HD12	11:P:35:PHE:HA	1.92	0.51
3:B:963:LEU:HD13	3:B:982:ARG:NH2	2.24	0.51
4:D:35:TYR:HE2	9:L:23:THR:HG21	1.74	0.51
4:D:133:LEU:HD21	4:D:139:ILE:CD1	2.40	0.51
4:D:177:GLU:HB2	4:D:178:LYS:HZ2	1.71	0.51
5:E:9:SER:HB3	6:F:3:SER:HB2	1.92	0.51
1:Q:74:HIS:O	1:Q:75:ILE:HD12	2.10	0.51
1:Q:245:ILE:HD12	1:Q:272:HIS:CD2	2.44	0.51
3:R:6:THR:HB	3:R:9:GLU:H	1.74	0.51
3:R:557:HIS:ND1	3:R:566:VAL:HG13	2.25	0.51
3:R:625:TYR:N	3:R:625:TYR:CD1	2.77	0.51
3:R:688:THR:CG2	3:R:863:LYS:HZ2	2.23	0.51
3:R:813:LYS:H	3:R:836:SER:HB3	1.74	0.51
3:R:870:ARG:NH2	3:R:996:MET:SD	2.83	0.51
3:R:910:LEU:CD2	3:R:911:ASN:N	2.72	0.51
3:R:1080:PRO:O	3:R:1081:ILE:CG1	2.54	0.51
7:V:42:LEU:HD22	7:V:79:ARG:O	2.10	0.51
7:V:43:PRO:O	7:V:44:TRP:HB2	2.10	0.51
10:Y:44:CYS:SG	10:Y:45:CYS:N	2.83	0.51
1:A:276:TYR:HD2	1:A:277:PHE:HE1	1.51	0.51
1:A:289:HIS:ND1	1:A:290:ARG:HG3	2.26	0.51
1:A:316:LYS:HE2	3:B:1094:SER:HG	1.75	0.51
1:A:349:VAL:HG21	1:A:409:ARG:NH2	2.25	0.51
1:A:368:GLY:O	1:A:374:GLY:HA3	2.10	0.51
1:A:471:GLU:OE1	8:K:41:LEU:HD13	2.10	0.51
1:A:473:ILE:HD12	1:A:474:ALA:H	1.72	0.51
1:A:488:THR:OG1	1:A:495:ILE:HD12	2.11	0.51
2:C:109:GLU:O	2:C:113:ALA:N	2.43	0.51
2:C:241:ILE:CG2	2:C:242:VAL:H	2.22	0.51
3:B:764:LYS:HD2	3:B:771:ASP:CB	2.40	0.51
3:B:1060:VAL:C	3:B:1088:LEU:HD23	2.30	0.51
7:H:42:LEU:HB2	7:H:43:PRO:HD2	1.93	0.51
1:Q:376:ASN:N	1:Q:376:ASN:HD22	2.08	0.51
1:Q:422:GLN:NE2	1:Q:463:ASN:HD21	2.08	0.51
1:Q:575:CYS:SG	1:Q:582:HIS:HB2	2.51	0.51
1:Q:747:LEU:CD1	1:Q:790:LEU:HD11	2.41	0.51

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:258:LEU:HB2	2:G:279:GLU:OE2	2.11	0.51
2:G:352:LYS:O	2:G:354:LEU:N	2.43	0.51
3:R:98:LEU:C	3:R:98:LEU:HD13	2.31	0.51
3:R:116:ILE:HG22	3:R:390:VAL:HG21	1.91	0.51
3:R:780:VAL:HG12	3:R:831:ALA:N	2.25	0.51
3:R:950:ILE:O	3:R:952:GLN:N	2.43	0.51
3:R:963:LEU:CD2	4:S:208:GLU:HG3	2.40	0.51
3:R:992:LYS:HE3	3:R:996:MET:SD	2.50	0.51
4:S:159:VAL:HG23	4:S:231:GLU:O	2.10	0.51
9:X:64:THR:CG2	9:X:65:PRO:HD2	2.33	0.51
10:Y:22:ILE:O	10:Y:26:ASN:ND2	2.42	0.51
1:A:312:ASN:HA	1:A:315:GLY:O	2.10	0.51
1:A:491:TYR:HD1	1:A:607:GLN:NE2	2.08	0.51
1:A:504:SER:O	1:A:508:LEU:HD12	2.10	0.51
2:C:106:ARG:HG2	2:C:106:ARG:HH11	1.76	0.51
3:B:64:ARG:HB2	3:B:97:TRP:CD1	2.45	0.51
3:B:352:SER:O	3:B:404:VAL:HG11	2.11	0.51
3:B:705:THR:CG2	3:B:706:ARG:H	2.12	0.51
3:B:834:ASP:O	3:B:835:THR:HB	2.10	0.51
6:F:14:TYR:CD1	6:F:74:SER:CB	2.93	0.51
9:L:35:ILE:CD1	9:L:75:ASN:ND2	2.73	0.51
1:Q:301:ARG:O	1:Q:302:LEU:CG	2.57	0.51
1:Q:543:ARG:CG	1:Q:544:GLU:H	2.24	0.51
1:Q:638:PHE:CE2	1:Q:642:GLN:HG3	2.46	0.51
1:Q:782:ILE:HG22	1:Q:784:SER:N	2.25	0.51
1:Q:826:ALA:HB1	2:G:334:VAL:CG1	2.37	0.51
1:Q:831:ARG:NH2	2:G:385:MET:CG	2.74	0.51
2:G:70:ILE:HD13	2:G:71:GLY:H	1.75	0.51
2:G:120:PRO:CB	2:G:256:SER:HB3	2.39	0.51
3:R:170:ASN:O	3:R:171:ARG:O	2.29	0.51
3:R:457:GLU:OE1	3:R:652:ALA:HB2	2.09	0.51
3:R:541:ARG:NH2	3:R:557:HIS:CD2	2.77	0.51
4:S:34:LEU:HD22	4:S:151:LYS:CB	2.37	0.51
4:S:90:GLU:C	4:S:92:CYS:N	2.64	0.51
4:S:134:GLY:O	4:S:135:THR:C	2.48	0.51
4:S:226:TYR:C	4:S:227:ILE:HG13	2.30	0.51
7:V:42:LEU:HB2	7:V:43:PRO:HD2	1.93	0.51
1:A:64:THR:CG2	1:A:65:LEU:H	2.22	0.51
1:A:312:ASN:HB3	3:B:1015:GLN:OE1	2.11	0.51
1:A:475:GLU:OE1	3:B:1043:MET:N	2.40	0.51
1:A:552:ILE:C	1:A:552:ILE:HD12	2.30	0.51

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:723:ASN:O	1:A:724:PHE:C	2.48	0.51
2:C:292:ILE:CG2	2:C:293:ILE:N	2.74	0.51
3:B:63:ILE:HA	3:B:98:LEU:HA	1.92	0.51
3:B:198:VAL:HG12	3:B:198:VAL:O	2.10	0.51
3:B:245:ASP:CG	3:B:515:LEU:HG	2.30	0.51
3:B:291:GLN:O	3:B:295:LYS:HG2	2.10	0.51
3:B:694:LEU:HD13	3:B:694:LEU:C	2.31	0.51
5:E:58:ILE:N	5:E:58:ILE:HD12	2.25	0.51
5:E:174:TRP:HA	5:E:174:TRP:HE3	1.76	0.51
7:H:44:TRP:O	7:H:79:ARG:HD3	2.11	0.51
1:Q:242:ILE:HD13	1:Q:273:VAL:HG22	1.92	0.51
1:Q:491:TYR:HD1	1:Q:607:GLN:NE2	2.09	0.51
1:Q:620:SER:C	1:Q:622:GLU:H	2.12	0.51
1:Q:647:ARG:HB2	1:Q:650:ASP:CG	2.31	0.51
2:G:331:ARG:CB	2:G:331:ARG:HH11	2.24	0.51
3:R:89:ASN:HD21	3:R:863:LYS:HZ3	1.58	0.51
3:R:457:GLU:OE1	3:R:457:GLU:N	2.43	0.51
4:S:79:PRO:HB2	4:S:149:TYR:HE1	1.75	0.51
5:T:64:GLY:O	8:W:42:GLN:HG3	2.10	0.51
5:T:173:GLU:O	5:T:177:GLN:OE1	2.29	0.51
6:U:57:GLU:C	6:U:59:LEU:H	2.13	0.51
9:X:43:TYR:O	9:X:44:TYR:HB3	2.11	0.51
1:A:68:CYS:SG	1:A:71:HIS:CE1	3.03	0.51
1:A:486:ILE:HG23	1:A:487:ILE:HG13	1.92	0.51
1:A:812:ARG:HG3	2:C:86:THR:HG23	1.93	0.51
2:C:24:LEU:N	2:C:25:PRO:HD2	2.25	0.51
3:B:5:LEU:HD13	3:B:5:LEU:N	2.26	0.51
3:B:227:MET:O	3:B:232:ILE:HB	2.11	0.51
3:B:353:LEU:O	3:B:356:VAL:HG12	2.11	0.51
3:B:871:ILE:CG2	3:B:872:PRO:HD2	2.41	0.51
3:B:887:VAL:HG12	3:B:888:ILE:N	2.25	0.51
4:D:206:CYS:HB3	14:D:1001:F3S:S3	2.51	0.51
6:F:30:SER:CB	6:F:38:TYR:HE1	2.24	0.51
6:F:68:VAL:O	6:F:72:LEU:HG	2.11	0.51
9:L:45:GLN:HE22	9:L:48:PRO:CD	2.23	0.51
10:N:33:LYS:HA	10:N:36:ASP:OD2	2.11	0.51
1:Q:52:ILE:HD13	1:Q:52:ILE:H	1.75	0.51
1:Q:63:ASN:O	1:Q:64:THR:O	2.29	0.51
1:Q:345:LYS:HG2	1:Q:410:HIS:CD2	2.45	0.51
1:Q:527:VAL:CG1	1:Q:530:VAL:HB	2.40	0.51
1:Q:656:ASP:HA	1:Q:659:LYS:CD	2.40	0.51

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:742:GLN:HB2	3:R:919:MET:CE	2.39	0.51
3:R:94:ALA:O	3:R:118:ASP:HA	2.11	0.51
3:R:297:PHE:O	3:R:298:LEU:HB2	2.10	0.51
3:R:869:LEU:HD21	4:S:56:GLU:HB2	1.92	0.51
9:X:15:LEU:O	9:X:54:ILE:HA	2.10	0.51
1:A:414:GLY:HA2	1:A:434:ARG:NE	2.26	0.51
1:A:503:ILE:HD11	1:A:732:GLY:C	2.31	0.51
2:C:126:LEU:HG	2:C:249:TYR:O	2.10	0.51
2:C:393:ILE:HB	5:E:18:PHE:O	2.10	0.51
3:B:193:THR:HG21	3:B:197:ARG:N	2.26	0.51
3:B:346:ALA:O	3:B:350:PHE:N	2.44	0.51
3:B:672:MET:CE	3:B:885:LYS:HD3	2.40	0.51
3:B:963:LEU:HD22	4:D:208:GLU:HG3	1.91	0.51
3:B:1061:CYS:HA	3:B:1088:LEU:HD23	1.93	0.51
3:B:1081:ILE:HG21	3:B:1085:LYS:HZ2	1.76	0.51
4:D:13:ILE:CG1	4:D:238:PRO:HB2	2.40	0.51
5:E:179:LYS:HZ1	6:F:82:GLU:N	2.06	0.51
7:H:16:LEU:HD12	7:H:16:LEU:N	2.26	0.51
10:N:21:PHE:CE1	10:N:38:LEU:HD13	2.46	0.51
1:Q:27:ILE:CG2	1:Q:75:ILE:HD11	2.41	0.51
1:Q:289:HIS:HB2	1:Q:295:LEU:CD2	2.38	0.51
1:Q:488:THR:HG22	1:Q:491:TYR:H	1.76	0.51
1:Q:853:ASP:HB2	2:G:311:ARG:NH1	2.21	0.51
1:Q:856:PHE:HB3	1:Q:859:TYR:CD1	2.45	0.51
2:G:297:ILE:O	2:G:301:LEU:HG	2.10	0.51
2:G:343:ALA:HB2	2:G:371:GLU:HG3	1.92	0.51
3:R:109:ALA:O	3:R:110:GLU:O	2.29	0.51
3:R:165:GLU:O	3:R:432:SER:HB2	2.10	0.51
3:R:291:GLN:O	3:R:295:LYS:HG2	2.10	0.51
3:R:654:ILE:HD12	3:R:654:ILE:N	2.22	0.51
3:R:679:LEU:HD23	3:R:716:ARG:HG2	1.93	0.51
3:R:702:LEU:HD13	10:Y:47:ARG:CD	2.41	0.51
3:R:1046:LYS:NZ	3:R:1051:ASP:OD2	2.40	0.51
4:S:67:PHE:HD2	4:S:121:VAL:CG1	2.23	0.51
6:U:31:SER:HA	6:U:35:GLN:NE2	2.26	0.51
7:V:73:GLY:O	7:V:74:GLU:HG3	2.10	0.51
9:X:61:GLY:O	9:X:63:ILE:N	2.44	0.51
1:A:49:LEU:HD22	1:A:71:HIS:O	2.11	0.51
1:A:665:ILE:HG13	1:A:666:ASP:N	2.25	0.51
1:A:768:HIS:NE2	3:B:450:TRP:CZ2	2.79	0.51
1:A:785:SER:O	1:A:787:ARG:N	2.43	0.51

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:796:PHE:CZ	3:B:445:LEU:HB3	2.46	0.51
2:C:55:ALA:HA	2:C:58:GLU:OE2	2.10	0.51
3:B:247:GLU:C	3:B:249:GLN:H	2.13	0.51
3:B:248:VAL:CG2	3:B:329:ARG:HH22	2.20	0.51
3:B:325:LEU:HD21	3:B:332:PRO:CD	2.36	0.51
3:B:840:ARG:HH11	3:B:1021:ALA:HB2	1.76	0.51
4:D:204:THR:O	4:D:206:CYS:N	2.44	0.51
5:E:134:LYS:HD3	5:E:174:TRP:HE1	1.76	0.51
10:N:18:TRP:CH2	10:N:54:ASP:OD1	2.64	0.51
1:Q:181:ARG:HG2	1:Q:181:ARG:HH11	1.75	0.51
2:G:287:GLU:OE2	7:V:79:ARG:CZ	2.59	0.51
2:G:391:ARG:HH21	8:W:42:GLN:HG2	1.76	0.51
3:R:70:VAL:CG1	3:R:90:LEU:HD23	2.41	0.51
3:R:88:ARG:HG2	11:Z:33:ILE:HD11	1.93	0.51
3:R:193:THR:CB	3:R:197:ARG:O	2.59	0.51
3:R:247:GLU:C	3:R:249:GLN:H	2.13	0.51
3:R:262:ILE:N	3:R:262:ILE:HD12	2.25	0.51
3:R:278:ILE:HG23	3:R:285:ARG:HH22	1.75	0.51
3:R:1047:ASP:HA	3:R:1051:ASP:CB	2.38	0.51
3:R:1061:CYS:H	3:R:1065:GLY:HA2	1.76	0.51
4:S:90:GLU:O	4:S:92:CYS:N	2.39	0.51
4:S:165:ARG:HE	4:S:227:ILE:HB	1.74	0.51
6:U:78:THR:HB	6:U:82:GLU:OE2	2.10	0.51
7:V:69:SER:HB2	7:V:75:VAL:CG2	2.38	0.51
1:A:525:LEU:C	1:A:527:VAL:N	2.62	0.51
1:A:548:GLY:C	1:A:550:GLN:N	2.63	0.51
1:A:607:GLN:O	1:A:608:PRO:C	2.49	0.51
1:A:661:ILE:HD11	1:A:714:ILE:HB	1.93	0.51
1:A:748:GLY:HA2	1:A:781:PHE:CD2	2.45	0.51
1:A:761:TYR:HB3	3:B:622:GLU:OE1	2.10	0.51
1:A:859:TYR:HB2	2:C:64:ILE:HG12	1.93	0.51
2:C:54:LEU:O	2:C:58:GLU:N	2.44	0.51
2:C:301:LEU:HA	2:C:304:GLN:CG	2.41	0.51
3:B:587:PRO:O	3:B:588:LEU:CD2	2.54	0.51
3:B:669:GLN:C	3:B:671:ALA:H	2.13	0.51
3:B:804:VAL:HG23	3:B:847:VAL:HG23	1.91	0.51
3:B:1004:ARG:HH11	3:B:1004:ARG:HG3	1.76	0.51
4:D:3:ILE:CD1	9:L:83:TYR:HA	2.41	0.51
5:E:109:HIS:HD2	5:E:111:SER:OG	1.94	0.51
8:K:18:VAL:CG1	8:K:22:LEU:HD12	2.39	0.51
8:K:31:GLU:O	8:K:35:VAL:HG13	2.10	0.51

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:15:SER:HA	1:Q:203:ARG:HH21	1.74	0.51
1:Q:238:LYS:O	1:Q:242:ILE:HG13	2.11	0.51
1:Q:334:ILE:CG2	1:Q:482:VAL:HG11	2.40	0.51
1:Q:340:PRO:HB2	1:Q:343:ILE:HG12	1.91	0.51
1:Q:470:GLU:HB2	8:W:41:LEU:HD12	1.93	0.51
1:Q:612:LEU:HD23	1:Q:612:LEU:C	2.32	0.51
1:Q:691:THR:O	1:Q:694:GLU:HB2	2.10	0.51
1:Q:764:ARG:NH1	1:Q:769:PHE:O	2.42	0.51
1:Q:872:PHE:HA	1:Q:876:VAL:CG2	2.40	0.51
2:G:24:LEU:O	2:G:29:VAL:HG23	2.11	0.51
3:R:81:SER:H	3:R:84:GLU:HB2	1.75	0.51
3:R:343:LEU:HD11	3:R:575:VAL:CG2	2.41	0.51
3:R:855:THR:C	3:R:857:GLU:H	2.12	0.51
3:R:871:ILE:CG2	3:R:872:PRO:HD2	2.41	0.51
3:R:972:ASP:HB3	3:R:975:THR:CG2	2.41	0.51
4:S:21:PRO:HB2	4:S:23:GLU:OE1	2.11	0.51
4:S:71:GLU:O	4:S:73:LEU:N	2.44	0.51
5:T:87:GLY:O	5:T:88:GLU:HB2	2.11	0.51
5:T:127:ILE:O	5:T:127:ILE:HG22	2.10	0.51
5:T:147:ILE:O	5:T:148:SER:CB	2.58	0.51
7:V:23:LEU:CD2	7:V:64:ARG:HB2	2.40	0.51
7:V:45:ILE:CG2	7:V:79:ARG:HB3	2.41	0.51
8:W:79:ARG:HG3	8:W:79:ARG:NH1	2.25	0.51
10:Y:18:TRP:O	10:Y:20:SER:N	2.44	0.51
10:Y:40:VAL:HG11	10:Y:46:ARG:HG3	1.93	0.51
10:Y:60:ILE:HG23	10:Y:61:HIS:ND1	2.25	0.51
11:Z:16:GLU:CD	11:Z:26:CYS:HB2	2.31	0.51
1:A:323:ARG:HB2	3:B:1026:LEU:HD12	1.92	0.51
1:A:375:ALA:CB	1:A:409:ARG:HA	2.41	0.51
1:A:759:ARG:NH2	1:A:763:THR:HG23	2.26	0.51
1:A:851:GLY:C	1:A:853:ASP:H	2.13	0.51
2:C:16:LYS:HZ3	3:R:75:ARG:NH1	2.09	0.51
3:B:52:GLU:CG	3:B:56:LEU:HD23	2.40	0.51
3:B:94:ALA:O	3:B:119:LEU:N	2.44	0.51
3:B:355:ARG:HG2	3:B:356:VAL:N	2.26	0.51
3:B:393:ARG:HG2	3:B:393:ARG:O	2.11	0.51
3:B:972:ASP:HB3	3:B:975:THR:HG23	1.93	0.51
3:B:1014:ARG:HD2	3:B:1095:TYR:CD1	2.46	0.51
5:E:2:TYR:CE2	6:F:41:LEU:HD11	2.45	0.51
1:Q:330:PRO:HG3	3:R:731:GLY:O	2.10	0.51
1:Q:728:MET:HE3	3:R:913:HIS:HA	1.92	0.51

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:859:TYR:HB2	2:G:64:ILE:HG13	1.92	0.51
3:R:17:TYR:HB2	3:R:604:PHE:CD1	2.45	0.51
3:R:60:LEU:CD2	3:R:98:LEU:HD21	2.34	0.51
3:R:452:ARG:HH11	3:R:452:ARG:HG3	1.76	0.51
3:R:879:ALA:HA	3:R:884:GLN:O	2.10	0.51
3:R:1004:ARG:HH11	3:R:1004:ARG:HG3	1.75	0.51
3:R:1081:ILE:HG21	3:R:1085:LYS:HZ2	1.76	0.51
4:S:66:PRO:CG	10:Y:13:LEU:HD11	2.40	0.51
11:Z:24:VAL:O	11:Z:24:VAL:HG13	2.09	0.51
3:B:226:LEU:C	3:B:228:ARG:H	2.14	0.51
3:B:687:ARG:HH11	3:B:687:ARG:HB3	1.76	0.51
3:B:975:THR:O	4:D:26:ASN:ND2	2.44	0.51
4:D:106:PRO:HA	4:D:134:GLY:HA2	1.92	0.51
5:E:38:ILE:HD13	5:E:153:VAL:O	2.11	0.51
5:E:43:GLY:HA3	5:E:76:THR:HG21	1.93	0.51
7:H:80:TYR:O	7:H:81:VAL:CB	2.59	0.51
1:Q:353:ILE:CD1	1:Q:407:ILE:HG23	2.40	0.51
1:Q:552:ILE:C	1:Q:552:ILE:HD12	2.32	0.51
2:G:51:ILE:O	2:G:55:ALA:HB2	2.11	0.51
2:G:331:ARG:HH11	2:G:331:ARG:HB3	1.75	0.51
3:R:282:ARG:HD3	3:R:285:ARG:CD	2.41	0.51
3:R:679:LEU:HD23	3:R:716:ARG:HD3	1.92	0.51
5:T:119:LYS:HE3	5:T:130:GLU:OE2	2.11	0.51
9:X:1:MET:SD	9:X:3:ILE:HD11	2.51	0.51
10:Y:20:SER:HA	10:Y:23:THR:HB	1.92	0.51
11:Z:17:GLN:O	11:Z:19:LYS:N	2.44	0.51
11:Z:46:LYS:NZ	11:Z:46:LYS:HB3	2.26	0.51
1:A:334:ILE:CD1	1:A:628:MET:HB3	2.38	0.50
3:B:123:LEU:HD22	3:B:151:TYR:CE1	2.46	0.50
3:B:227:MET:HE3	3:B:312:ALA:HB1	1.92	0.50
3:B:339:ALA:HB2	3:B:618:ALA:CB	2.34	0.50
3:B:372:SER:O	3:B:373:LYS:HB2	2.10	0.50
3:B:771:ASP:CG	3:B:816:PRO:HD3	2.31	0.50
4:D:30:ARG:NH1	9:L:21:ASP:OD1	2.43	0.50
4:D:124:ILE:O	4:D:124:ILE:HG13	2.11	0.50
6:F:54:LYS:HB2	6:F:54:LYS:HZ2	1.75	0.50
1:Q:27:ILE:HB	1:Q:75:ILE:CD1	2.40	0.50
1:Q:86:LEU:HB3	1:Q:207:MET:CE	2.40	0.50
1:Q:308:ARG:NH2	3:R:1012:LEU:CD1	2.74	0.50
1:Q:500:GLN:CG	1:Q:501:ASP:H	2.24	0.50
3:R:22:GLY:O	3:R:23:LEU:C	2.49	0.50

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:108:GLU:OE2	3:R:108:GLU:C	2.50	0.50
3:R:521:ILE:HB	3:R:567:HIS:ND1	2.26	0.50
3:R:644:SER:O	3:R:647:ILE:HG13	2.11	0.50
3:R:724:LEU:HD13	3:R:990:TYR:CE2	2.46	0.50
1:A:626:TRP:O	1:A:627:LEU:C	2.49	0.50
2:C:16:LYS:NZ	3:R:75:ARG:HH12	2.09	0.50
2:C:30:ASP:O	2:C:31:ASP:HB3	2.12	0.50
2:C:104:LEU:C	2:C:104:LEU:CD2	2.80	0.50
2:C:253:THR:C	2:C:255:GLY:H	2.14	0.50
2:C:390:MET:O	2:C:391:ARG:HB3	2.11	0.50
3:B:301:LEU:HD22	3:B:483:ARG:NH2	2.24	0.50
3:B:433:LEU:HD12	3:B:435:ARG:HH22	1.75	0.50
3:B:537:ALA:CB	3:B:557:HIS:HE2	2.24	0.50
3:B:537:ALA:HB1	3:B:541:ARG:CZ	2.41	0.50
3:B:687:ARG:NH1	3:B:687:ARG:CG	2.73	0.50
3:B:727:MET:HB3	3:B:983:ILE:HG23	1.92	0.50
5:E:147:ILE:O	5:E:148:SER:CB	2.59	0.50
5:E:173:GLU:O	5:E:177:GLN:OE1	2.29	0.50
7:H:49:ASP:O	7:H:53:ARG:HB3	2.11	0.50
9:L:61:GLY:O	9:L:63:ILE:N	2.43	0.50
9:L:92:LYS:N	9:L:92:LYS:HD2	2.26	0.50
11:P:20:VAL:C	11:P:21:LEU:HD23	2.32	0.50
1:Q:365:VAL:HG22	1:Q:365:VAL:O	2.11	0.50
1:Q:665:ILE:HG13	1:Q:666:ASP:N	2.26	0.50
1:Q:667:ARG:O	1:Q:670:VAL:CG2	2.56	0.50
1:Q:748:GLY:HA2	1:Q:781:PHE:CD2	2.46	0.50
1:Q:785:SER:C	1:Q:787:ARG:H	2.15	0.50
2:G:269:VAL:CA	2:G:272:VAL:HG23	2.39	0.50
2:G:331:ARG:HB2	2:G:348:GLU:HG3	1.92	0.50
3:R:345:LEU:HD11	3:R:476:ILE:HG13	1.92	0.50
3:R:530:TYR:CD2	3:R:530:TYR:O	2.64	0.50
3:R:764:LYS:NZ	3:R:814:VAL:N	2.47	0.50
3:R:778:ALA:HA	3:R:783:TYR:CZ	2.46	0.50
3:R:881:ARG:NH1	3:R:989:TYR:HB3	2.27	0.50
3:R:1083:GLY:C	3:R:1085:LYS:N	2.64	0.50
4:S:27:ALA:HB1	9:X:23:THR:HG22	1.92	0.50
4:S:134:GLY:O	4:S:135:THR:O	2.29	0.50
4:S:167:TYR:HB2	4:S:225:LYS:O	2.11	0.50
5:T:46:LEU:HD11	5:T:77:TYR:HB2	1.93	0.50
5:T:140:ASP:O	5:T:142:VAL:HG13	2.11	0.50
1:A:742:GLN:HB2	3:B:919:MET:CE	2.41	0.50

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:807:VAL:CG2	3:B:443:ARG:HD3	2.39	0.50
3:B:45:GLU:HG3	3:B:46:GLN:N	2.26	0.50
3:B:237:ASP:O	3:B:241:ALA:HB2	2.11	0.50
3:B:368:GLN:NE2	3:B:386:ARG:HE	2.07	0.50
3:B:373:LYS:CD	3:B:375:ARG:HD2	2.42	0.50
4:D:6:LEU:HB3	4:D:14:ASP:HB2	1.93	0.50
4:D:79:PRO:HB2	4:D:149:TYR:HE1	1.76	0.50
5:E:43:GLY:HA3	5:E:76:THR:CG2	2.42	0.50
6:F:51:SER:O	6:F:55:VAL:HG23	2.12	0.50
8:K:50:LEU:O	8:K:52:ASP:N	2.44	0.50
10:N:35:LEU:O	10:N:38:LEU:O	2.29	0.50
1:Q:607:GLN:HB2	1:Q:608:PRO:CD	2.40	0.50
1:Q:723:ASN:O	1:Q:724:PHE:C	2.49	0.50
2:G:55:ALA:O	2:G:58:GLU:HB2	2.11	0.50
3:R:662:GLN:O	3:R:663:SER:C	2.50	0.50
3:R:759:SER:CB	3:R:863:LYS:HA	2.40	0.50
4:S:59:ALA:O	4:S:62:LEU:HB2	2.11	0.50
4:S:106:PRO:HD3	4:S:135:THR:HG23	1.93	0.50
5:T:126:ILE:CG2	5:T:136:ILE:H	2.23	0.50
6:U:30:SER:HB3	6:U:38:TYR:HE1	1.76	0.50
11:Z:22:PRO:HG2	11:Z:23:GLY:H	1.76	0.50
1:A:19:ILE:HA	1:A:22:MET:HE1	1.94	0.50
1:A:93:PHE:CE2	1:A:204:PRO:HB3	2.46	0.50
1:A:234:ASP:O	1:A:236:THR:N	2.44	0.50
1:A:277:PHE:N	1:A:277:PHE:HD1	2.09	0.50
1:A:409:ARG:HH11	1:A:409:ARG:CB	2.24	0.50
1:A:469:SER:O	1:A:473:ILE:HG13	2.12	0.50
2:C:331:ARG:HB2	2:C:348:GLU:HG3	1.93	0.50
2:C:336:GLY:C	2:C:337:GLU:OE1	2.50	0.50
3:B:369:LEU:HD21	3:B:379:LEU:HD22	1.94	0.50
3:B:846:ILE:O	3:B:846:ILE:HG22	2.11	0.50
3:B:895:VAL:HG11	4:D:34:LEU:CG	2.41	0.50
4:D:18:GLU:OE1	4:D:225:LYS:HD2	2.11	0.50
5:E:53:THR:HG22	5:E:70:VAL:HA	1.93	0.50
5:E:101:LEU:HD11	5:E:160:ILE:HG21	1.93	0.50
5:E:147:ILE:HD11	5:E:163:THR:HB	1.94	0.50
7:H:43:PRO:O	7:H:44:TRP:HB2	2.09	0.50
8:K:35:VAL:CG2	8:K:36:ILE:N	2.73	0.50
1:Q:420:ASN:ND2	1:Q:421:ARG:N	2.60	0.50
1:Q:489:PRO:HA	1:Q:858:MET:HG3	1.93	0.50
1:Q:563:HIS:CD2	1:Q:587:VAL:HG13	2.47	0.50

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:589:LYS:O	1:Q:592:ILE:HB	2.10	0.50
1:Q:775:SER:OG	1:Q:777:GLU:HG2	2.12	0.50
3:R:134:THR:HG22	3:R:137:LYS:HG3	1.93	0.50
3:R:184:THR:N	3:R:207:ASP:O	2.44	0.50
3:R:252:LEU:CD1	3:R:323:ILE:HB	2.41	0.50
3:R:340:ASN:CG	3:R:340:ASN:O	2.50	0.50
3:R:358:PHE:C	3:R:360:ALA:N	2.65	0.50
3:R:448:THR:HG22	3:R:452:ARG:HD2	1.94	0.50
3:R:930:GLY:O	10:Y:47:ARG:NH1	2.45	0.50
7:V:16:LEU:HD12	7:V:16:LEU:N	2.27	0.50
7:V:43:PRO:O	7:V:44:TRP:CB	2.60	0.50
1:A:203:ARG:HG3	1:A:203:ARG:NH1	2.21	0.50
1:A:277:PHE:CD1	1:A:277:PHE:N	2.79	0.50
1:A:489:PRO:CA	1:A:858:MET:HG3	2.41	0.50
1:A:649:GLU:HA	1:A:652:SER:OG	2.12	0.50
3:B:6:THR:HB	3:B:9:GLU:H	1.76	0.50
3:B:111:PRO:O	3:B:112:GLU:CB	2.60	0.50
3:B:369:LEU:CD2	3:B:384:LEU:HD13	2.41	0.50
3:B:688:THR:HG23	3:B:688:THR:O	2.10	0.50
3:B:904:VAL:HG13	10:N:44:CYS:HB3	1.94	0.50
3:B:1066:TYR:CD2	3:B:1105:MET:HE3	2.46	0.50
4:D:66:PRO:O	4:D:123:PRO:HA	2.11	0.50
4:D:112:LYS:C	4:D:114:ILE:H	2.14	0.50
4:D:252:LYS:O	4:D:255:GLU:N	2.44	0.50
6:F:40:TYR:O	6:F:43:SER:OG	2.29	0.50
1:Q:220:ARG:H	1:Q:221:PRO:CD	2.25	0.50
1:Q:485:ASN:ND2	3:R:1039:PHE:CE2	2.79	0.50
1:Q:785:SER:H	1:Q:788:THR:HB	1.76	0.50
1:Q:791:LYS:H	1:Q:794:GLU:HB2	1.76	0.50
3:R:97:TRP:O	3:R:98:LEU:HB3	2.11	0.50
3:R:184:THR:HG22	3:R:185:HIS:N	2.27	0.50
3:R:360:ALA:HB2	3:R:393:ARG:HH12	1.77	0.50
3:R:419:TRP:HZ3	3:R:712:GLY:CA	2.24	0.50
3:R:672:MET:CE	3:R:885:LYS:HD3	2.42	0.50
4:S:6:LEU:HB3	4:S:14:ASP:HB2	1.93	0.50
5:T:108:VAL:HG22	5:T:162:LEU:HB2	1.93	0.50
5:T:113:ILE:O	5:T:164:MET:HB2	2.12	0.50
7:V:38:ARG:HG2	7:V:38:ARG:NH1	2.25	0.50
8:W:82:LEU:HD23	8:W:82:LEU:N	2.26	0.50
10:Y:33:LYS:HA	10:Y:36:ASP:OD2	2.11	0.50
1:A:420:ASN:HD22	1:A:421:ARG:H	1.60	0.50

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:764:ARG:NH1	1:A:769:PHE:O	2.44	0.50
1:A:872:PHE:CD2	1:A:876:VAL:HG21	2.46	0.50
2:C:379:ILE:HD13	2:C:379:ILE:N	2.26	0.50
3:B:265:VAL:O	3:B:268:ALA:HB3	2.12	0.50
3:B:412:GLN:NE2	3:B:425:HIS:HE1	2.09	0.50
3:B:799:SER:O	3:B:802:VAL:HG23	2.12	0.50
4:D:45:TYR:HE1	11:P:44:ILE:HD13	1.77	0.50
4:D:47:ILE:HB	4:D:140:SER:O	2.11	0.50
4:D:90:GLU:C	4:D:92:CYS:N	2.63	0.50
5:E:93:ASP:CG	5:E:94:ASN:H	2.14	0.50
7:H:25:ILE:H	7:H:25:ILE:HD12	1.76	0.50
7:H:73:GLY:O	7:H:74:GLU:HG3	2.11	0.50
10:N:20:SER:HA	10:N:23:THR:HB	1.92	0.50
1:Q:289:HIS:ND1	1:Q:290:ARG:HG3	2.27	0.50
1:Q:396:GLU:C	1:Q:398:ALA:H	2.15	0.50
1:Q:692:LEU:HD12	1:Q:692:LEU:H	1.76	0.50
1:Q:756:ARG:HH22	1:Q:776:PRO:HA	1.75	0.50
3:R:369:LEU:HD21	3:R:379:LEU:HD22	1.92	0.50
3:R:432:SER:O	3:R:435:ARG:NE	2.44	0.50
3:R:532:ASP:OD1	3:R:535:GLU:HB2	2.11	0.50
3:R:741:ASN:O	3:R:745:VAL:HG23	2.12	0.50
5:T:43:GLY:HA3	5:T:76:THR:HG21	1.92	0.50
11:Z:21:LEU:HD23	11:Z:21:LEU:N	2.25	0.50
1:A:340:PRO:HB2	1:A:343:ILE:HG12	1.92	0.50
1:A:584:SER:OG	1:A:585:TYR:N	2.43	0.50
1:A:761:TYR:CB	1:A:764:ARG:HG3	2.40	0.50
1:A:830:LEU:HD13	1:A:846:VAL:HG21	1.92	0.50
2:C:15:GLU:HA	2:C:18:LYS:HD2	1.92	0.50
3:B:254:PRO:O	3:B:257:GLU:N	2.44	0.50
3:B:358:PHE:C	3:B:360:ALA:N	2.65	0.50
3:B:373:LYS:HE2	3:B:378:LYS:HE3	1.94	0.50
3:B:407:ARG:NH2	3:B:433:LEU:HG	2.26	0.50
3:B:661:ASN:ND2	3:B:921:LEU:O	2.42	0.50
3:B:763:VAL:HG22	3:B:770:GLU:HG3	1.92	0.50
3:B:780:VAL:HG11	3:B:831:ALA:CB	2.41	0.50
3:B:1087:ASN:C	3:B:1088:LEU:HG	2.32	0.50
5:E:123:VAL:C	5:E:125:GLY:N	2.65	0.50
5:E:126:ILE:CG2	5:E:136:ILE:H	2.23	0.50
9:L:14:GLU:OE1	9:L:56:LYS:HG2	2.11	0.50
10:N:16:ASP:OD2	10:N:17:LYS:HG3	2.11	0.50
1:Q:64:THR:CG2	1:Q:65:LEU:H	2.20	0.50

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:220:ARG:HD2	1:Q:236:THR:OG1	2.11	0.50
1:Q:304:GLY:C	1:Q:310:ARG:HD2	2.32	0.50
1:Q:464:LEU:CD1	1:Q:465:HIS:N	2.72	0.50
1:Q:486:ILE:CD1	1:Q:628:MET:HE2	2.42	0.50
1:Q:859:TYR:HB2	2:G:64:ILE:HG12	1.94	0.50
2:G:365:GLU:HG2	2:G:366:PHE:N	2.27	0.50
2:G:390:MET:SD	5:T:57:GLY:C	2.90	0.50
3:R:28:LEU:C	3:R:30:SER:H	2.15	0.50
3:R:221:ILE:CG2	3:R:226:LEU:HG	2.36	0.50
3:R:295:LYS:HG3	3:R:296:TYR:CD1	2.47	0.50
3:R:368:GLN:NE2	3:R:386:ARG:HE	2.07	0.50
3:R:393:ARG:NE	3:R:403:TRP:HZ3	2.07	0.50
3:R:764:LYS:HD2	3:R:771:ASP:CB	2.41	0.50
3:R:903:GLY:HA3	4:S:161:LEU:HD12	1.92	0.50
4:S:172:ILE:HG21	4:S:195:LEU:HD13	1.92	0.50
5:T:13:ILE:HG23	5:T:25:ILE:HG21	1.93	0.50
5:T:15:PRO:HG2	8:W:45:MET:CB	2.42	0.50
6:U:35:GLN:HA	6:U:38:TYR:HD1	1.71	0.50
8:W:91:SER:OG	8:W:92:LEU:N	2.45	0.50
1:A:203:ARG:NH1	1:A:203:ARG:CG	2.70	0.50
1:A:330:PRO:HG3	3:B:731:GLY:O	2.12	0.50
2:C:133:ASP:C	2:C:135:ASP:H	2.13	0.50
3:B:70:VAL:CG1	3:B:80:ILE:HD13	2.41	0.50
3:B:345:LEU:HD12	3:B:345:LEU:N	2.27	0.50
3:B:345:LEU:O	3:B:346:ALA:C	2.50	0.50
3:B:388:ASP:O	3:B:391:THR:N	2.45	0.50
3:B:532:ASP:OD1	3:B:535:GLU:HB2	2.11	0.50
1:Q:447:LEU:HD13	3:R:734:MET:SD	2.51	0.50
1:Q:668:ALA:CB	1:Q:707:LEU:HD13	2.41	0.50
1:Q:720:ASP:O	1:Q:722:PHE:N	2.45	0.50
1:Q:749:GLN:HA	1:Q:781:PHE:HA	1.94	0.50
3:R:6:THR:O	3:R:7:ILE:HD13	2.12	0.50
3:R:50:PRO:CG	3:R:51:THR:H	2.16	0.50
3:R:965:ASP:C	3:R:967:THR:H	2.14	0.50
3:R:1033:ARG:HD2	3:R:1037:ILE:HD11	1.94	0.50
3:R:1080:PRO:C	3:R:1081:ILE:HG13	2.32	0.50
1:A:785:SER:C	1:A:787:ARG:H	2.16	0.50
3:B:52:GLU:O	3:B:53:ILE:C	2.51	0.50
3:B:97:TRP:HZ3	3:B:113:GLU:CD	2.16	0.50
3:B:167:LEU:HD12	3:B:190:ILE:CD1	2.41	0.50
3:B:189:ILE:CB	3:B:203:GLU:HB2	2.38	0.50

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:214:PHE:HZ	3:B:297:PHE:CA	2.22	0.50
3:B:545:ARG:CZ	3:B:581:ILE:HG21	2.41	0.50
3:B:1033:ARG:HG3	3:B:1034:ASP:N	2.26	0.50
3:B:1085:LYS:C	3:B:1087:ASN:H	2.16	0.50
4:D:69:SER:CA	4:D:72:ALA:HB3	2.42	0.50
4:D:94:THR:CG2	4:D:145:LEU:HB2	2.42	0.50
4:D:98:ILE:HG12	4:D:114:ILE:HG12	1.93	0.50
6:F:23:ASP:HA	6:F:26:ARG:NE	2.27	0.50
6:F:49:ALA:O	6:F:53:GLN:HB2	2.11	0.50
7:H:80:TYR:CE1	7:H:82:ILE:HD11	2.47	0.50
8:K:26:ARG:CG	8:K:90:LEU:HD13	2.42	0.50
1:Q:87:VAL:HG13	1:Q:88:LYS:N	2.26	0.50
1:Q:508:LEU:HB3	1:Q:638:PHE:HE2	1.77	0.50
1:Q:532:ILE:HD12	9:X:12:TYR:OH	2.12	0.50
2:G:349:VAL:HG13	2:G:353:HIS:CD2	2.47	0.50
2:G:386:VAL:HG11	8:W:34:ARG:HB2	1.94	0.50
3:R:111:PRO:O	3:R:112:GLU:CB	2.60	0.50
3:R:237:ASP:O	3:R:241:ALA:HB2	2.12	0.50
3:R:489:LEU:HB3	3:R:494:VAL:HG21	1.94	0.50
3:R:1085:LYS:O	3:R:1086:SER:OG	2.22	0.50
2:C:57:LYS:HA	2:C:57:LYS:CE	2.39	0.49
2:C:286:ILE:HD11	7:H:46:ARG:H	1.76	0.49
3:B:22:GLY:O	3:B:23:LEU:C	2.49	0.49
3:B:184:THR:HG22	3:B:185:HIS:N	2.27	0.49
3:B:481:ASN:O	3:B:482:GLU:O	2.29	0.49
3:B:1047:ASP:CG	3:B:1047:ASP:O	2.50	0.49
4:D:64:LEU:HD13	10:N:6:ARG:HB2	1.92	0.49
4:D:205:LEU:O	4:D:207:GLU:N	2.45	0.49
5:E:147:ILE:HG12	5:E:163:THR:HB	1.93	0.49
1:Q:4:LYS:HZ2	3:R:1115:LEU:CB	2.23	0.49
1:Q:647:ARG:HH21	4:S:211:ARG:HH12	1.59	0.49
2:G:133:ASP:C	2:G:135:ASP:N	2.65	0.49
2:G:326:VAL:HG13	2:G:326:VAL:O	2.11	0.49
2:G:389:THR:HG22	8:W:77:THR:HB	1.93	0.49
3:R:97:TRP:HZ3	3:R:113:GLU:CD	2.15	0.49
3:R:226:LEU:C	3:R:228:ARG:H	2.16	0.49
3:R:248:VAL:CG2	3:R:329:ARG:HH22	2.18	0.49
3:R:430:ILE:HG22	3:R:431:SER:O	2.12	0.49
3:R:707:ALA:C	3:R:709:ASP:H	2.15	0.49
3:R:926:GLU:CD	3:R:988:VAL:HG22	2.33	0.49
3:R:1063:GLN:HE22	3:R:1085:LYS:HD2	1.76	0.49

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:1098:LYS:O	3:R:1102:GLN:HG3	2.12	0.49
4:S:256:LEU:HD12	9:X:3:ILE:HG13	1.94	0.49
10:Y:40:VAL:O	10:Y:40:VAL:HG12	2.11	0.49
1:A:87:VAL:HG13	1:A:88:LYS:H	1.78	0.49
1:A:534:LEU:HD23	9:L:39:SER:O	2.12	0.49
1:A:543:ARG:CG	1:A:544:GLU:H	2.24	0.49
1:A:691:THR:HG22	1:A:692:LEU:N	2.27	0.49
1:A:781:PHE:HD2	1:A:781:PHE:C	2.15	0.49
2:C:42:ILE:HD12	2:C:42:ILE:N	2.27	0.49
2:C:287:GLU:OE2	7:H:79:ARG:CZ	2.61	0.49
3:B:14:ILE:HG23	3:B:15:GLU:N	2.27	0.49
3:B:97:TRP:O	3:B:98:LEU:HB3	2.11	0.49
3:B:789:TYR:CD2	3:B:789:TYR:N	2.69	0.49
3:B:792:LEU:HD11	3:B:809:VAL:HG11	1.94	0.49
3:B:879:ALA:HA	3:B:884:GLN:O	2.13	0.49
3:B:978:LYS:HD2	4:D:205:LEU:HD22	1.95	0.49
4:D:53:LEU:HD22	4:D:57:ILE:CG2	2.40	0.49
4:D:250:ILE:O	4:D:254:GLU:HB2	2.12	0.49
1:Q:199:PRO:O	1:Q:200:THR:OG1	2.22	0.49
1:Q:392:LYS:O	1:Q:394:ARG:N	2.45	0.49
1:Q:533:ASP:O	1:Q:534:LEU:O	2.31	0.49
2:G:391:ARG:NH2	5:T:18:PHE:HE2	2.11	0.49
3:R:70:VAL:CG1	3:R:80:ILE:HD13	2.41	0.49
3:R:174:VAL:HG11	3:R:325:LEU:HD23	1.93	0.49
3:R:254:PRO:O	3:R:257:GLU:N	2.44	0.49
3:R:727:MET:HB3	3:R:983:ILE:HG23	1.94	0.49
4:S:69:SER:HB2	4:S:236:LEU:HD11	1.94	0.49
5:T:18:PHE:CD2	8:W:47:ALA:CB	2.94	0.49
6:U:23:ASP:HA	6:U:26:ARG:NE	2.27	0.49
6:U:54:LYS:HB2	6:U:54:LYS:NZ	2.27	0.49
1:A:81:VAL:HG12	1:A:270:GLN:CG	2.40	0.49
1:A:214:VAL:O	1:A:214:VAL:HG12	2.12	0.49
1:A:365:VAL:HG22	1:A:365:VAL:O	2.12	0.49
1:A:465:HIS:CD2	3:B:1048:ARG:HD2	2.47	0.49
1:A:555:PHE:HD1	1:A:626:TRP:CH2	2.30	0.49
1:A:582:HIS:C	1:A:584:SER:H	2.15	0.49
1:A:702:ASP:O	1:A:703:THR:C	2.49	0.49
1:A:814:SER:O	1:A:818:TYR:HB2	2.11	0.49
2:C:55:ALA:O	2:C:58:GLU:HB2	2.11	0.49
2:C:392:PRO:O	2:C:393:ILE:O	2.30	0.49
3:B:358:PHE:C	3:B:360:ALA:H	2.16	0.49

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:521:ILE:HB	3:B:567:HIS:ND1	2.27	0.49
3:B:570:CYS:O	3:B:571:ASP:O	2.31	0.49
3:B:686:LEU:H	3:B:686:LEU:CD1	2.14	0.49
3:B:852:ILE:HG23	3:B:862:VAL:CG2	2.39	0.49
3:B:852:ILE:CD1	11:P:35:PHE:HA	2.43	0.49
3:B:902:LYS:CB	10:N:42:ARG:HD3	2.42	0.49
3:B:1086:SER:C	3:B:1087:ASN:O	2.49	0.49
4:D:133:LEU:HD21	4:D:139:ILE:HG12	1.93	0.49
4:D:203:CYS:O	4:D:204:THR:HG23	2.12	0.49
4:D:206:CYS:O	4:D:207:GLU:CB	2.61	0.49
5:E:127:ILE:HG22	5:E:127:ILE:O	2.12	0.49
8:K:50:LEU:CD2	8:K:74:LEU:HA	2.42	0.49
8:K:91:SER:O	8:K:92:LEU:HB2	2.12	0.49
11:P:21:LEU:HD23	11:P:21:LEU:N	2.28	0.49
1:Q:464:LEU:HD13	1:Q:465:HIS:H	1.75	0.49
1:Q:851:GLY:C	1:Q:853:ASP:H	2.15	0.49
1:Q:854:GLY:O	2:G:65:ALA:HA	2.12	0.49
2:G:35:LEU:O	2:G:39:LYS:HE3	2.11	0.49
3:R:34:PHE:CE1	3:R:351:ALA:HA	2.47	0.49
3:R:45:GLU:HG3	3:R:46:GLN:N	2.26	0.49
3:R:256:LEU:C	3:R:258:GLN:H	2.15	0.49
3:R:727:MET:HE3	3:R:898:PRO:HG3	1.93	0.49
3:R:1014:ARG:HG3	3:R:1095:TYR:CE2	2.46	0.49
3:R:1086:SER:C	3:R:1087:ASN:O	2.50	0.49
4:S:4:ASN:HA	9:X:90:LEU:CD2	2.40	0.49
4:S:108:MET:CE	10:Y:2:LEU:HD21	2.41	0.49
5:T:43:GLY:HA3	5:T:76:THR:CG2	2.42	0.49
5:T:127:ILE:H	5:T:136:ILE:HB	1.76	0.49
1:A:323:ARG:HD2	3:B:1026:LEU:HD11	1.95	0.49
3:B:146:LYS:HB2	3:B:716:ARG:HH22	1.78	0.49
3:B:343:LEU:N	3:B:343:LEU:CD1	2.74	0.49
3:B:805:LYS:O	3:B:806:GLY:O	2.31	0.49
3:B:1069:TRP:CZ3	3:B:1077:TYR:CB	2.95	0.49
3:B:1074:LYS:CB	3:B:1076:LYS:HG3	2.42	0.49
6:F:30:SER:OG	6:F:38:TYR:HE1	1.92	0.49
7:H:47:ALA:C	7:H:49:ASP:H	2.15	0.49
1:Q:517:THR:CG2	1:Q:518:LYS:N	2.75	0.49
1:Q:821:ARG:O	1:Q:825:ASN:ND2	2.41	0.49
1:Q:827:LEU:HD12	1:Q:830:LEU:HD12	1.94	0.49
1:Q:830:LEU:HD13	1:Q:846:VAL:HG21	1.94	0.49
2:G:55:ALA:O	2:G:58:GLU:N	2.45	0.49

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:276:ASN:O	2:G:279:GLU:HB3	2.11	0.49
3:R:52:GLU:CG	3:R:56:LEU:HD23	2.42	0.49
3:R:325:LEU:HD21	3:R:332:PRO:CD	2.37	0.49
3:R:530:TYR:OH	3:R:536:LEU:CB	2.60	0.49
3:R:1033:ARG:NH1	3:R:1033:ARG:CG	2.71	0.49
6:U:14:TYR:H	6:U:14:TYR:HD1	1.60	0.49
7:V:49:ASP:O	7:V:53:ARG:HB3	2.12	0.49
9:X:45:GLN:HE22	9:X:48:PRO:CD	2.24	0.49
10:Y:55:ILE:HD13	10:Y:55:ILE:N	2.26	0.49
1:A:181:ARG:HG2	1:A:181:ARG:HH11	1.78	0.49
1:A:188:PRO:O	1:A:192:VAL:HG23	2.12	0.49
1:A:353:ILE:CD1	1:A:407:ILE:HG23	2.42	0.49
1:A:396:GLU:C	1:A:398:ALA:H	2.15	0.49
1:A:418:LEU:CD1	3:B:1044:LEU:HD11	2.42	0.49
1:A:431:MET:HE1	1:A:482:VAL:HG13	1.93	0.49
1:A:720:ASP:O	1:A:722:PHE:N	2.45	0.49
2:C:104:LEU:CB	2:C:105:PRO:HD3	2.31	0.49
3:B:191:SER:CA	3:B:300:HIS:NE2	2.72	0.49
3:B:252:LEU:CD1	3:B:323:ILE:HB	2.41	0.49
3:B:278:ILE:HG23	3:B:285:ARG:HH22	1.78	0.49
3:B:292:ILE:O	3:B:293:ILE:HD13	2.11	0.49
3:B:563:ILE:HG22	3:B:564:ASN:N	2.28	0.49
3:B:683:ASN:C	3:B:685:GLN:N	2.63	0.49
4:D:33:MET:O	4:D:150:GLY:HA3	2.13	0.49
4:D:68:MET:HE1	4:D:234:GLY:O	2.12	0.49
4:D:85:CYS:O	4:D:89:CYS:SG	2.70	0.49
5:E:81:VAL:O	5:E:82:GLN:CB	2.61	0.49
5:E:166:GLN:HB2	5:E:169:LEU:CD1	2.30	0.49
7:H:15:TYR:CD2	7:H:16:LEU:HD12	2.48	0.49
1:Q:11:PHE:HA	3:R:1110:SER:O	2.12	0.49
1:Q:18:GLU:O	1:Q:22:MET:HB3	2.12	0.49
1:Q:390:TYR:O	1:Q:391:VAL:HB	2.12	0.49
1:Q:500:GLN:O	1:Q:501:ASP:C	2.50	0.49
1:Q:515:LEU:HD11	1:Q:539:ILE:HG13	1.93	0.49
1:Q:608:PRO:O	1:Q:609:GLU:CG	2.61	0.49
2:G:366:PHE:O	2:G:368:GLY:N	2.45	0.49
2:G:391:ARG:CB	8:W:75:PRO:HB2	2.43	0.49
3:R:294:ASP:O	3:R:303:THR:HA	2.13	0.49
3:R:341:LYS:HZ2	3:R:341:LYS:HB3	1.77	0.49
3:R:854:GLU:OE2	11:Z:24:VAL:HB	2.12	0.49
3:R:887:VAL:HG12	3:R:888:ILE:N	2.26	0.49

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:66:PRO:HB2	4:S:124:ILE:CG1	2.38	0.49
4:S:134:GLY:O	4:S:137:GLN:HG3	2.11	0.49
4:S:206:CYS:HB3	14:S:1001:F3S:S3	2.52	0.49
5:T:53:THR:OG1	5:T:71:GLU:HB2	2.12	0.49
6:U:41:LEU:O	6:U:43:SER:N	2.33	0.49
6:U:52:ALA:C	6:U:54:LYS:H	2.16	0.49
1:A:341:GLU:O	1:A:345:LYS:HG3	2.13	0.49
1:A:533:ASP:O	1:A:534:LEU:O	2.31	0.49
1:A:752:VAL:C	1:A:754:GLY:N	2.66	0.49
1:A:756:ARG:HH22	1:A:776:PRO:HA	1.78	0.49
1:A:781:PHE:CD2	1:A:781:PHE:C	2.86	0.49
3:B:144:ASP:HB3	3:B:682:ALA:HB3	1.94	0.49
3:B:221:ILE:HD12	3:B:221:ILE:N	2.27	0.49
3:B:296:TYR:O	3:B:297:PHE:HB2	2.11	0.49
3:B:564:ASN:ND2	3:B:564:ASN:O	2.45	0.49
3:B:589:VAL:O	3:B:590:THR:C	2.50	0.49
3:B:851:LEU:HA	11:P:35:PHE:CB	2.34	0.49
3:B:943:THR:CG2	3:B:944:PRO:CD	2.90	0.49
3:B:1029:GLY:O	3:B:1030:GLU:C	2.50	0.49
6:F:18:LYS:NZ	6:F:41:LEU:O	2.41	0.49
8:K:61:VAL:C	8:K:63:SER:H	2.16	0.49
1:Q:13:ILE:HG22	1:Q:13:ILE:O	2.10	0.49
1:Q:94:LEU:HD11	1:Q:180:ILE:HG23	1.94	0.49
1:Q:397:LEU:HD23	1:Q:400:THR:OG1	2.13	0.49
1:Q:759:ARG:N	1:Q:779:ARG:HH21	2.10	0.49
3:R:292:ILE:O	3:R:293:ILE:HD13	2.12	0.49
3:R:330:ARG:HH11	3:R:330:ARG:CG	2.25	0.49
3:R:416:ARG:CZ	3:R:687:ARG:NH2	2.75	0.49
3:R:690:THR:O	3:R:691:ARG:O	2.30	0.49
3:R:738:ILE:HG12	3:R:739:ILE:N	2.28	0.49
3:R:1069:TRP:CE3	3:R:1070:TYR:O	2.65	0.49
4:S:68:MET:HA	4:S:68:MET:CE	2.43	0.49
7:V:15:TYR:CD2	7:V:16:LEU:HD12	2.48	0.49
10:Y:18:TRP:CZ2	10:Y:22:ILE:HG21	2.47	0.49
1:A:249:LEU:HD21	1:A:265:LEU:CB	2.41	0.49
1:A:428:ILE:O	1:A:428:ILE:CG2	2.61	0.49
2:C:12:TYR:N	2:C:12:TYR:CD1	2.81	0.49
3:B:282:ARG:HD3	3:B:285:ARG:HD2	1.95	0.49
3:B:448:THR:HG22	3:B:452:ARG:HD2	1.93	0.49
3:B:448:THR:O	3:B:450:TRP:N	2.46	0.49
3:B:644:SER:C	3:B:646:ALA:H	2.16	0.49

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:662:GLN:O	3:B:663:SER:C	2.50	0.49
3:B:696:HIS:CG	4:D:57:ILE:HD11	2.47	0.49
3:B:794:ASP:OD1	3:B:794:ASP:N	2.43	0.49
3:B:800:PRO:HD3	3:B:850:VAL:CG2	2.42	0.49
3:B:898:PRO:HB2	3:B:970:VAL:HG21	1.94	0.49
3:B:899:TYR:O	3:B:971:TYR:N	2.39	0.49
4:D:67:PHE:HD2	4:D:121:VAL:CG1	2.24	0.49
4:D:108:MET:HG3	4:D:110:TYR:CE1	2.46	0.49
9:L:8:SER:HB2	9:L:13:LEU:CD1	2.42	0.49
11:P:31:TYR:HE2	11:P:33:ILE:CG1	2.26	0.49
1:Q:357:ASN:O	1:Q:359:GLU:N	2.46	0.49
2:G:258:LEU:HD21	2:G:284:PHE:CE1	2.48	0.49
2:G:379:ILE:HD13	2:G:379:ILE:N	2.26	0.49
3:R:52:GLU:O	3:R:53:ILE:C	2.51	0.49
3:R:97:TRP:HZ3	3:R:113:GLU:OE2	1.95	0.49
3:R:221:ILE:HD12	3:R:221:ILE:N	2.27	0.49
3:R:278:ILE:CG2	3:R:279:GLY:N	2.76	0.49
3:R:353:LEU:HD13	3:R:404:VAL:HG22	1.94	0.49
3:R:355:ARG:HG2	3:R:356:VAL:N	2.26	0.49
3:R:757:LEU:HD23	3:R:758:TYR:H	1.76	0.49
3:R:759:SER:CB	3:R:862:VAL:O	2.51	0.49
3:R:763:VAL:HG22	3:R:770:GLU:HG3	1.94	0.49
3:R:903:GLY:HA3	4:S:161:LEU:CD1	2.43	0.49
4:S:80:GLU:HA	4:S:83:ILE:HD12	1.95	0.49
5:T:31:ARG:C	5:T:33:GLN:N	2.64	0.49
6:U:30:SER:CB	6:U:38:TYR:HE1	2.24	0.49
7:V:20:HIS:HB3	7:V:63:ILE:HG21	1.95	0.49
7:V:35:LEU:O	7:V:37:ILE:HG13	2.13	0.49
1:A:397:LEU:HD23	1:A:400:THR:OG1	2.13	0.49
2:C:64:ILE:HG22	2:C:65:ALA:N	2.28	0.49
2:C:330:GLY:O	2:C:335:THR:OG1	2.31	0.49
3:B:214:PHE:CZ	3:B:297:PHE:HA	2.42	0.49
3:B:655:ILE:HG12	3:B:669:GLN:HG2	1.94	0.49
6:F:17:ALA:O	6:F:21:LEU:HG	2.12	0.49
6:F:52:ALA:C	6:F:54:LYS:H	2.16	0.49
8:K:51:ILE:O	8:K:51:ILE:HG22	2.13	0.49
1:Q:728:MET:HE2	3:R:916:PRO:HG3	1.95	0.49
3:R:167:LEU:HD12	3:R:190:ILE:CD1	2.43	0.49
3:R:286:ILE:O	3:R:289:ALA:HB3	2.13	0.49
3:R:563:ILE:HG22	3:R:564:ASN:N	2.28	0.49
3:R:564:ASN:ND2	3:R:564:ASN:O	2.46	0.49

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:644:SER:C	3:R:646:ALA:H	2.15	0.49
3:R:801:GLU:HG3	11:Z:38:ARG:CZ	2.43	0.49
1:A:489:PRO:CB	1:A:858:MET:HG3	2.42	0.49
1:A:558:LYS:NZ	3:R:108:GLU:CG	2.76	0.49
1:A:855:VAL:O	1:A:855:VAL:HG12	2.12	0.49
2:C:337:GLU:HG2	2:C:338:LYS:N	2.18	0.49
2:C:354:LEU:HD13	3:B:1104:LEU:HD21	1.95	0.49
2:C:389:THR:HG22	8:K:77:THR:O	2.12	0.49
3:B:109:ALA:O	3:B:110:GLU:O	2.31	0.49
3:B:153:ILE:HG22	3:B:153:ILE:O	2.13	0.49
3:B:353:LEU:HD13	3:B:404:VAL:HG22	1.95	0.49
3:B:690:THR:O	3:B:691:ARG:C	2.51	0.49
3:B:1069:TRP:CE3	3:B:1070:TYR:O	2.66	0.49
5:E:31:ARG:C	5:E:33:GLN:N	2.65	0.49
5:E:88:GLU:HA	5:E:141:LYS:HA	1.95	0.49
6:F:57:GLU:O	6:F:59:LEU:N	2.46	0.49
7:H:37:ILE:HD12	7:H:37:ILE:O	2.12	0.49
1:Q:353:ILE:O	1:Q:403:PRO:HA	2.13	0.49
1:Q:552:ILE:C	1:Q:554:ALA:H	2.15	0.49
1:Q:702:ASP:O	1:Q:703:THR:C	2.51	0.49
1:Q:704:LEU:HD22	1:Q:781:PHE:CD1	2.48	0.49
3:R:238:ILE:HA	3:R:241:ALA:HB3	1.94	0.49
3:R:478:VAL:HA	3:R:572:SER:HA	1.95	0.49
3:R:536:LEU:O	3:R:539:LYS:N	2.46	0.49
3:R:604:PHE:O	3:R:607:LEU:HB2	2.13	0.49
3:R:717:PRO:HD3	10:Y:53:VAL:HG11	1.93	0.49
3:R:854:GLU:HG3	11:Z:24:VAL:HG11	1.94	0.49
4:S:180:VAL:HG22	4:S:190:LEU:HG	1.95	0.49
5:T:166:GLN:HB2	5:T:169:LEU:CD1	2.29	0.49
7:V:80:TYR:O	7:V:81:VAL:CB	2.61	0.49
8:W:19:PHE:O	8:W:20:ILE:C	2.52	0.49
1:A:525:LEU:HD12	9:L:56:LYS:HE3	1.95	0.49
2:C:258:LEU:O	2:C:262:LEU:HG	2.13	0.49
2:C:326:VAL:O	2:C:326:VAL:HG13	2.12	0.49
2:C:389:THR:HG23	2:C:389:THR:O	2.12	0.49
3:B:147:ASP:OD2	3:B:148:PRO:CD	2.59	0.49
3:B:239:VAL:HG12	3:B:249:GLN:HE22	1.77	0.49
3:B:530:TYR:OH	3:B:536:LEU:CB	2.59	0.49
3:B:958:LEU:O	3:B:958:LEU:HD23	2.13	0.49
4:D:4:ASN:HA	9:L:90:LEU:CD2	2.41	0.49
5:E:96:GLY:HA2	5:E:110:ILE:CD1	2.43	0.49

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:N:18:TRP:CZ2	10:N:22:ILE:HG21	2.48	0.49
11:P:16:GLU:CD	11:P:26:CYS:HB2	2.32	0.49
11:P:46:LYS:HB3	11:P:46:LYS:NZ	2.27	0.49
1:Q:261:ILE:O	1:Q:261:ILE:HG22	2.13	0.49
1:Q:297:THR:O	1:Q:298:LEU:C	2.51	0.49
2:G:390:MET:O	2:G:391:ARG:HB3	2.12	0.49
3:R:181:SER:O	3:R:182:ASN:CB	2.61	0.49
3:R:435:ARG:CG	3:R:435:ARG:NH1	2.75	0.49
3:R:620:GLU:C	3:R:622:GLU:N	2.64	0.49
3:R:690:THR:O	3:R:691:ARG:C	2.51	0.49
3:R:691:ARG:HB3	3:R:754:PHE:CZ	2.48	0.49
3:R:764:LYS:NZ	3:R:814:VAL:O	2.41	0.49
4:S:26:ASN:O	4:S:29:ARG:HB3	2.13	0.49
4:S:112:LYS:C	4:S:114:ILE:H	2.15	0.49
5:T:102:GLY:HA2	6:U:40:TYR:CG	2.48	0.49
5:T:113:ILE:CG2	5:T:114:THR:H	2.25	0.49
1:A:15:SER:HA	1:A:203:ARG:HH21	1.77	0.48
1:A:75:ILE:HG23	1:A:75:ILE:O	2.12	0.48
2:C:262:LEU:CD2	2:C:269:VAL:HG13	2.36	0.48
2:C:285:GLY:HA2	7:H:50:PRO:HD2	1.94	0.48
2:C:288:ALA:HB2	7:H:17:VAL:HB	1.95	0.48
2:C:311:ARG:HH11	2:C:311:ARG:HG3	1.77	0.48
3:B:20:SER:O	3:B:25:ARG:NH2	2.45	0.48
3:B:99:THR:O	3:B:99:THR:HG22	2.13	0.48
3:B:368:GLN:O	3:B:372:SER:HB3	2.12	0.48
3:B:555:VAL:O	3:B:620:GLU:HG3	2.13	0.48
3:B:644:SER:O	3:B:647:ILE:HG13	2.13	0.48
3:B:696:HIS:HE1	3:B:869:LEU:HD23	1.78	0.48
3:B:867:ARG:O	3:B:868:ASP:HB2	2.13	0.48
3:B:1061:CYS:H	3:B:1065:GLY:HA2	1.78	0.48
3:B:1094:SER:O	3:B:1096:ALA:N	2.46	0.48
4:D:24:PHE:CZ	9:L:80:THR:HA	2.47	0.48
5:E:77:TYR:O	5:E:78:VAL:HG23	2.12	0.48
5:E:103:PRO:HB3	6:F:37:THR:OG1	2.13	0.48
6:F:54:LYS:HB2	6:F:54:LYS:NZ	2.27	0.48
6:F:72:LEU:HD23	6:F:86:ILE:CD1	2.42	0.48
1:Q:212:LEU:HD21	1:Q:242:ILE:HD13	1.95	0.48
1:Q:582:HIS:C	1:Q:584:SER:H	2.15	0.48
2:G:388:LEU:CD1	8:W:34:ARG:HG3	2.43	0.48
3:R:130:ILE:HA	3:R:133:TYR:CE1	2.47	0.48
3:R:189:ILE:CB	3:R:203:GLU:HB2	2.39	0.48

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:481:ASN:O	3:R:482:GLU:O	2.31	0.48
3:R:537:ALA:CB	3:R:557:HIS:HE2	2.24	0.48
3:R:551:ASP:OD2	3:R:551:ASP:N	2.42	0.48
3:R:634:THR:HB	3:R:635:PRO:HD3	1.95	0.48
3:R:911:ASN:O	3:R:913:HIS:N	2.46	0.48
3:R:971:TYR:O	3:R:973:GLY:N	2.43	0.48
3:R:1013:THR:HB	3:R:1015:GLN:HG3	1.93	0.48
3:R:1047:ASP:CG	3:R:1047:ASP:O	2.51	0.48
4:S:216:SER:C	4:S:217:ILE:HD12	2.34	0.48
5:T:15:PRO:HA	5:T:18:PHE:CD1	2.48	0.48
5:T:96:GLY:HA2	5:T:110:ILE:CD1	2.43	0.48
5:T:123:VAL:C	5:T:125:GLY:N	2.65	0.48
8:W:87:ILE:N	8:W:87:ILE:HD12	2.27	0.48
9:X:14:GLU:OE1	9:X:56:LYS:HG2	2.12	0.48
1:A:407:ILE:HD12	1:A:407:ILE:O	2.13	0.48
1:A:468:GLN:HB2	3:B:1047:ASP:OD2	2.13	0.48
1:A:564:GLY:O	1:A:586:VAL:N	2.42	0.48
1:A:637:ARG:HD3	1:A:640:GLU:OE1	2.13	0.48
1:A:670:VAL:HG23	1:A:671:GLU:N	2.27	0.48
1:A:734:ARG:HG2	3:B:913:HIS:O	2.12	0.48
2:C:31:ASP:C	2:C:33:LYS:N	2.63	0.48
2:C:104:LEU:O	2:C:104:LEU:HD23	2.13	0.48
2:C:388:LEU:CG	8:K:34:ARG:HG3	2.43	0.48
3:B:65:ILE:HG22	3:B:66:GLY:H	1.78	0.48
3:B:148:PRO:HG3	3:B:422:MET:HE1	1.94	0.48
3:B:292:ILE:O	3:B:292:ILE:HG22	2.13	0.48
3:B:591:ILE:O	3:B:594:ILE:HG13	2.13	0.48
3:B:733:ASN:HB3	3:B:739:ILE:HG22	1.95	0.48
3:B:778:ALA:HA	3:B:783:TYR:CZ	2.48	0.48
8:K:60:ASP:O	8:K:61:VAL:O	2.31	0.48
1:Q:335:ASP:OD1	1:Q:482:VAL:HB	2.13	0.48
1:Q:349:VAL:HG21	1:Q:409:ARG:NH2	2.28	0.48
1:Q:417:VAL:HG11	1:Q:464:LEU:CD2	2.43	0.48
1:Q:632:PHE:HA	1:Q:635:PHE:HD1	1.75	0.48
2:G:12:TYR:CD1	2:G:12:TYR:N	2.81	0.48
2:G:15:GLU:HA	2:G:18:LYS:CG	2.43	0.48
3:R:11:TRP:O	3:R:14:ILE:HG22	2.13	0.48
3:R:134:THR:O	3:R:135:LEU:C	2.50	0.48
3:R:173:LEU:HD22	3:R:333:ASP:HB3	1.95	0.48
3:R:402:ASN:O	3:R:403:TRP:HB2	2.13	0.48
3:R:555:VAL:O	3:R:620:GLU:HG3	2.12	0.48

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:569:ASN:HB3	3:R:574:ARG:CZ	2.43	0.48
3:R:687:ARG:HH11	3:R:687:ARG:HB3	1.78	0.48
3:R:943:THR:CG2	3:R:944:PRO:HD2	2.36	0.48
1:A:369:PRO:HA	1:A:410:HIS:CE1	2.48	0.48
1:A:485:ASN:ND2	3:B:1039:PHE:HE2	2.11	0.48
2:C:64:ILE:CG2	2:C:65:ALA:N	2.77	0.48
3:B:97:TRP:O	3:B:114:VAL:O	2.31	0.48
3:B:204:ARG:HB2	3:B:213:SER:HG	1.75	0.48
3:B:247:GLU:HA	3:B:250:ASN:HD22	1.78	0.48
3:B:395:ARG:O	3:B:399:ALA:CB	2.62	0.48
3:B:699:GLN:NE2	10:N:48:MET:CE	2.74	0.48
3:B:1061:CYS:N	3:B:1088:LEU:HD23	2.29	0.48
4:D:69:SER:HA	4:D:72:ALA:CB	2.42	0.48
4:D:153:HIS:O	4:D:155:LYS:N	2.36	0.48
6:F:41:LEU:C	6:F:43:SER:H	2.15	0.48
11:P:17:GLN:O	11:P:19:LYS:N	2.46	0.48
1:Q:353:ILE:HD12	1:Q:353:ILE:N	2.28	0.48
1:Q:752:VAL:C	1:Q:754:GLY:N	2.66	0.48
2:G:258:LEU:O	2:G:262:LEU:HG	2.12	0.48
2:G:327:ARG:CZ	2:G:334:VAL:HG23	2.43	0.48
2:G:349:VAL:HG21	2:G:352:LYS:HB2	1.94	0.48
3:R:75:ARG:HD3	3:R:75:ARG:N	2.28	0.48
3:R:144:ASP:HB3	3:R:682:ALA:HB3	1.96	0.48
3:R:694:LEU:C	3:R:694:LEU:HD13	2.34	0.48
3:R:958:LEU:HD23	3:R:958:LEU:C	2.34	0.48
4:S:24:PHE:CZ	9:X:80:THR:HA	2.46	0.48
5:T:171:LYS:HB3	5:T:174:TRP:CD1	2.49	0.48
9:X:61:GLY:O	9:X:62:SER:C	2.51	0.48
11:Z:31:TYR:HE2	11:Z:33:ILE:CG1	2.26	0.48
11:Z:42:ILE:O	11:Z:42:ILE:HG23	2.13	0.48
1:A:89:HIS:O	1:A:93:PHE:HD1	1.97	0.48
1:A:387:ASP:CG	1:A:388:LEU:N	2.66	0.48
1:A:851:GLY:O	1:A:853:ASP:N	2.46	0.48
3:B:94:ALA:O	3:B:118:ASP:HA	2.13	0.48
3:B:170:ASN:O	3:B:171:ARG:O	2.32	0.48
3:B:676:ALA:HB2	3:B:991:GLN:NE2	2.29	0.48
3:B:724:LEU:HD13	3:B:990:TYR:CE2	2.48	0.48
3:B:978:LYS:HE2	4:D:205:LEU:HD13	1.94	0.48
3:B:979:ILE:CD1	3:B:981:SER:H	2.26	0.48
3:B:1083:GLY:C	3:B:1085:LYS:N	2.66	0.48
4:D:34:LEU:O	4:D:36:VAL:N	2.46	0.48

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:97:ILE:HD11	5:E:136:ILE:HG21	1.95	0.48
8:K:70:ARG:C	8:K:72:GLY:N	2.67	0.48
1:Q:84:VAL:O	1:Q:87:VAL:HG12	2.13	0.48
1:Q:86:LEU:HB3	1:Q:207:MET:HE1	1.93	0.48
1:Q:507:TYR:O	1:Q:508:LEU:CB	2.60	0.48
1:Q:870:ARG:NH2	2:G:57:LYS:O	2.47	0.48
2:G:330:GLY:O	2:G:335:THR:OG1	2.31	0.48
3:R:239:VAL:HG12	3:R:249:GLN:HE22	1.78	0.48
3:R:278:ILE:HG23	3:R:285:ARG:NH2	2.28	0.48
3:R:479:GLY:C	3:R:480:ILE:HG13	2.34	0.48
3:R:579:LEU:HD12	3:R:616:LEU:CD1	2.39	0.48
3:R:1036:LEU:O	3:R:1039:PHE:O	2.31	0.48
4:S:112:LYS:HB3	4:S:126:GLY:O	2.13	0.48
4:S:131:VAL:CG2	4:S:132:LEU:N	2.63	0.48
5:T:147:ILE:HG12	5:T:163:THR:HB	1.95	0.48
8:W:43:LEU:C	8:W:45:MET:H	2.16	0.48
9:X:8:SER:HB2	9:X:13:LEU:HD13	1.95	0.48
1:A:392:LYS:O	1:A:394:ARG:N	2.46	0.48
1:A:418:LEU:HD23	1:A:430:MET:CE	2.44	0.48
1:A:827:LEU:HD13	2:C:319:VAL:HG21	1.95	0.48
1:A:833:GLU:CG	1:A:839:ARG:HG3	2.43	0.48
3:B:52:GLU:CB	3:B:56:LEU:HB3	2.42	0.48
3:B:75:ARG:N	3:B:75:ARG:HD3	2.29	0.48
3:B:478:VAL:HA	3:B:572:SER:HA	1.95	0.48
3:B:544:ARG:HG3	3:B:544:ARG:NH1	2.25	0.48
3:B:643:TRP:CZ3	3:B:645:PRO:HB2	2.49	0.48
3:B:764:LYS:NZ	3:B:814:VAL:N	2.50	0.48
4:D:98:ILE:HD11	4:D:114:ILE:CG2	2.32	0.48
4:D:106:PRO:HD3	4:D:135:THR:HG23	1.95	0.48
5:E:149:VAL:HG11	5:E:160:ILE:HD12	1.96	0.48
8:K:26:ARG:HG2	8:K:90:LEU:HD13	1.96	0.48
9:L:33:ARG:HG2	9:L:41:ALA:HB3	1.94	0.48
10:N:22:ILE:O	10:N:26:ASN:ND2	2.45	0.48
10:N:55:ILE:HD13	10:N:55:ILE:N	2.27	0.48
1:Q:189:ASP:O	1:Q:199:PRO:HG3	2.13	0.48
1:Q:402:ALA:O	1:Q:403:PRO:C	2.51	0.48
1:Q:428:ILE:HG21	1:Q:495:ILE:HD13	1.95	0.48
1:Q:475:GLU:OE1	3:R:1043:MET:HB2	2.13	0.48
1:Q:551:VAL:HG13	1:Q:552:ILE:HG23	1.94	0.48
2:G:126:LEU:HG	2:G:249:TYR:O	2.14	0.48
2:G:389:THR:HG23	2:G:389:THR:O	2.12	0.48

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:38:LYS:CG	3:R:39:LEU:H	2.16	0.48
3:R:84:GLU:O	3:R:88:ARG:N	2.38	0.48
3:R:107:ILE:HG12	3:R:110:GLU:OE2	2.14	0.48
3:R:292:ILE:O	3:R:292:ILE:HG22	2.14	0.48
3:R:1029:GLY:O	3:R:1030:GLU:C	2.52	0.48
3:R:1076:LYS:O	3:R:1078:VAL:HG23	2.13	0.48
4:S:12:ARG:NH2	4:S:14:ASP:OD2	2.46	0.48
4:S:205:LEU:O	4:S:207:GLU:N	2.47	0.48
5:T:96:GLY:HA2	5:T:110:ILE:HG12	1.95	0.48
5:T:141:LYS:HB2	5:T:172:LEU:CD1	2.43	0.48
1:A:17:ASP:O	1:A:21:LYS:HG3	2.14	0.48
1:A:249:LEU:HD12	1:A:269:LEU:HD11	1.95	0.48
1:A:402:ALA:O	1:A:403:PRO:C	2.50	0.48
1:A:417:VAL:HG13	1:A:465:HIS:O	2.14	0.48
1:A:700:ILE:O	1:A:704:LEU:HG	2.14	0.48
2:C:238:LYS:C	2:C:239:ARG:HD3	2.33	0.48
3:B:301:LEU:CD2	3:B:483:ARG:HH21	2.22	0.48
3:B:478:VAL:HA	3:B:572:SER:CB	2.43	0.48
3:B:687:ARG:HH11	3:B:687:ARG:CB	2.25	0.48
5:E:2:TYR:CZ	6:F:41:LEU:HD21	2.49	0.48
7:H:23:LEU:CD2	7:H:64:ARG:HB2	2.41	0.48
8:K:30:TYR:N	8:K:30:TYR:CD1	2.81	0.48
1:Q:363:GLN:O	1:Q:366:ILE:CG2	2.62	0.48
3:R:122:MET:HB2	3:R:152:PHE:CE1	2.48	0.48
3:R:290:GLN:NE2	3:R:308:ARG:HH12	2.12	0.48
3:R:325:LEU:O	3:R:326:TYR:C	2.51	0.48
3:R:373:LYS:CG	3:R:375:ARG:HB2	2.43	0.48
3:R:448:THR:O	3:R:450:TRP:N	2.46	0.48
3:R:520:VAL:C	3:R:521:ILE:HD12	2.34	0.48
3:R:952:GLN:O	3:R:953:LEU:C	2.51	0.48
3:R:1014:ARG:HD2	3:R:1095:TYR:CE1	2.48	0.48
4:S:167:TYR:HD2	4:S:222:VAL:HG21	1.78	0.48
5:T:123:VAL:C	5:T:125:GLY:H	2.17	0.48
1:A:294:PRO:O	1:A:295:LEU:O	2.30	0.48
1:A:417:VAL:HG11	1:A:464:LEU:CD2	2.43	0.48
2:C:135:ASP:C	2:C:137:ALA:H	2.17	0.48
2:C:286:ILE:CD1	7:H:45:ILE:HG13	2.33	0.48
3:B:102:PRO:C	3:B:108:GLU:OE1	2.52	0.48
3:B:229:ALA:HB1	3:B:269:LEU:HD23	1.96	0.48
3:B:658:PRO:C	3:B:660:HIS:N	2.67	0.48
3:B:724:LEU:CD1	3:B:908:ILE:HG22	2.41	0.48

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:1033:ARG:NH1	3:B:1033:ARG:CG	2.72	0.48
4:D:63:ALA:HB1	4:D:155:LYS:NZ	2.27	0.48
7:H:43:PRO:O	7:H:44:TRP:CB	2.60	0.48
1:Q:4:LYS:HZ1	3:R:1115:LEU:HB3	1.75	0.48
1:Q:89:HIS:O	1:Q:93:PHE:HD1	1.95	0.48
1:Q:192:VAL:CG1	1:Q:199:PRO:HD3	2.43	0.48
2:G:55:ALA:HA	2:G:58:GLU:CD	2.33	0.48
2:G:145:GLU:HG2	2:G:240:ALA:N	2.24	0.48
2:G:238:LYS:C	2:G:239:ARG:HD3	2.33	0.48
2:G:253:THR:C	2:G:255:GLY:H	2.17	0.48
3:R:63:ILE:HG13	3:R:98:LEU:CA	2.43	0.48
3:R:146:LYS:HE2	3:R:715:ASN:OD1	2.13	0.48
3:R:191:SER:OG	3:R:299:PRO:HD2	2.14	0.48
3:R:282:ARG:HD3	3:R:285:ARG:HD2	1.94	0.48
3:R:346:ALA:O	3:R:350:PHE:N	2.46	0.48
3:R:497:VAL:HG12	3:R:498:GLU:H	1.72	0.48
3:R:577:ARG:HE	3:R:578:PRO:HD2	1.78	0.48
5:T:101:LEU:HD11	5:T:160:ILE:HG21	1.95	0.48
7:V:45:ILE:HG22	7:V:80:TYR:N	2.23	0.48
9:X:7:LYS:HE3	9:X:12:TYR:HE2	1.77	0.48
9:X:87:ILE:O	9:X:91:THR:HG23	2.13	0.48
1:A:507:TYR:HB2	1:A:511:VAL:CG1	2.40	0.48
1:A:647:ARG:NH2	4:D:211:ARG:HH12	2.12	0.48
1:A:854:GLY:O	2:C:65:ALA:HA	2.12	0.48
3:B:134:THR:N	3:B:137:LYS:HB2	2.29	0.48
3:B:294:ASP:O	3:B:303:THR:HA	2.14	0.48
3:B:457:GLU:O	3:B:458:THR:OG1	2.30	0.48
3:B:480:ILE:CG2	3:B:481:ASN:N	2.77	0.48
3:B:741:ASN:O	3:B:745:VAL:HG23	2.13	0.48
3:B:926:GLU:CD	3:B:988:VAL:HG22	2.34	0.48
3:B:1070:TYR:O	3:B:1071:ASP:C	2.51	0.48
4:D:45:TYR:CE1	11:P:44:ILE:HG23	2.49	0.48
8:K:87:ILE:HD12	8:K:87:ILE:N	2.28	0.48
1:Q:358:ILE:O	1:Q:362:ARG:HG3	2.14	0.48
1:Q:407:ILE:HD12	1:Q:407:ILE:O	2.13	0.48
1:Q:600:LYS:HE3	1:Q:732:GLY:CA	2.33	0.48
1:Q:607:GLN:O	1:Q:608:PRO:C	2.52	0.48
1:Q:807:VAL:CG2	3:R:443:ARG:HD3	2.35	0.48
2:G:15:GLU:HA	2:G:18:LYS:HG3	1.96	0.48
2:G:278:ARG:O	2:G:282:GLU:HG3	2.14	0.48
3:R:97:TRP:O	3:R:114:VAL:O	2.32	0.48

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:128:ASP:OD1	3:R:130:ILE:HG13	2.14	0.48
3:R:724:LEU:HD13	3:R:990:TYR:HE2	1.78	0.48
3:R:850:VAL:O	11:Z:35:PHE:HB2	2.14	0.48
3:R:921:LEU:O	3:R:923:GLN:N	2.46	0.48
4:S:108:MET:HG3	4:S:110:TYR:CE1	2.48	0.48
8:W:50:LEU:CD2	8:W:74:LEU:HA	2.43	0.48
1:A:87:VAL:HG13	1:A:88:LYS:N	2.28	0.48
1:A:551:VAL:HG13	1:A:552:ILE:HG23	1.95	0.48
3:B:122:MET:HB2	3:B:152:PHE:CE1	2.49	0.48
3:B:248:VAL:CG1	3:B:329:ARG:HH12	2.20	0.48
3:B:526:LEU:HD23	3:B:526:LEU:C	2.34	0.48
3:B:690:THR:O	3:B:691:ARG:O	2.31	0.48
3:B:700:ARG:HB3	10:N:51:SER:HA	1.96	0.48
3:B:735:GLU:O	3:B:736:ASP:O	2.32	0.48
3:B:940:VAL:HG23	3:B:947:LYS:HD3	1.95	0.48
3:B:1014:ARG:HD2	3:B:1095:TYR:CE1	2.48	0.48
4:D:71:GLU:O	4:D:73:LEU:N	2.46	0.48
4:D:129:PRO:CG	10:N:15:ALA:HB1	2.44	0.48
5:E:123:VAL:C	5:E:125:GLY:H	2.16	0.48
8:K:71:ARG:HB3	8:K:73:VAL:HG13	1.96	0.48
1:Q:23:SER:OG	1:Q:24:VAL:N	2.45	0.48
1:Q:420:ASN:HD22	1:Q:421:ARG:H	1.62	0.48
2:G:331:ARG:CD	2:G:348:GLU:HB3	2.42	0.48
2:G:382:GLY:C	2:G:384:GLY:H	2.16	0.48
3:R:412:GLN:NE2	3:R:425:HIS:HE1	2.12	0.48
3:R:683:ASN:C	3:R:685:GLN:N	2.65	0.48
3:R:727:MET:HA	3:R:912:PRO:HG2	1.96	0.48
3:R:840:ARG:HB2	3:R:843:GLU:CB	2.44	0.48
3:R:890:MET:HG2	3:R:892:ILE:HD11	1.96	0.48
3:R:904:VAL:HG22	10:Y:44:CYS:HB3	1.96	0.48
4:S:203:CYS:SG	4:S:204:THR:N	2.87	0.48
6:U:16:VAL:C	6:U:18:LYS:N	2.67	0.48
6:U:18:LYS:HD2	6:U:45:GLU:HG2	1.96	0.48
6:U:56:ILE:O	6:U:59:LEU:HB3	2.14	0.48
1:A:294:PRO:O	1:A:295:LEU:C	2.52	0.48
1:A:648:LEU:HD23	1:A:648:LEU:C	2.34	0.48
2:C:46:ASP:O	2:C:50:LYS:NZ	2.46	0.48
2:C:55:ALA:C	2:C:57:LYS:N	2.64	0.48
2:C:269:VAL:CA	2:C:272:VAL:HG23	2.38	0.48
3:B:24:VAL:HG21	3:B:426:LEU:HD12	1.95	0.48
3:B:360:ALA:HB2	3:B:393:ARG:HH12	1.79	0.48

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:430:ILE:HG22	3:B:431:SER:O	2.14	0.48
3:B:557:HIS:N	3:B:623:ASN:ND2	2.43	0.48
3:B:723:ILE:HD12	10:N:43:TYR:CE1	2.43	0.48
3:B:724:LEU:HD13	3:B:990:TYR:HE2	1.79	0.48
4:D:167:TYR:HD2	4:D:222:VAL:HG21	1.78	0.48
4:D:180:VAL:HG21	4:D:190:LEU:HG	1.93	0.48
5:E:171:LYS:HB3	5:E:174:TRP:CD1	2.49	0.48
7:H:45:ILE:HB	7:H:79:ARG:CB	2.42	0.48
10:N:22:ILE:HD13	10:N:23:THR:H	1.78	0.48
1:Q:87:VAL:O	1:Q:91:TYR:HB2	2.14	0.48
1:Q:194:ILE:O	1:Q:194:ILE:HG22	2.12	0.48
1:Q:316:LYS:HZ3	3:R:1049:LEU:HD12	1.79	0.48
1:Q:387:ASP:OD2	1:Q:389:ARG:N	2.47	0.48
1:Q:764:ARG:NH2	3:R:624:ALA:O	2.47	0.48
2:G:262:LEU:CD2	2:G:269:VAL:HG13	2.38	0.48
2:G:373:ILE:CD1	3:R:1049:LEU:HD22	2.44	0.48
2:G:390:MET:CE	5:T:58:ILE:C	2.82	0.48
3:R:373:LYS:HE3	3:R:375:ARG:CD	2.37	0.48
4:S:61:ARG:HH21	10:Y:2:LEU:HD13	1.78	0.48
5:T:170:GLY:H	5:T:175:ILE:HD11	1.76	0.48
6:U:30:SER:HB3	6:U:38:TYR:CE1	2.49	0.48
8:W:71:ARG:HB3	8:W:73:VAL:HG13	1.96	0.48
9:X:83:TYR:O	9:X:87:ILE:HB	2.14	0.48
1:A:27:ILE:HB	1:A:75:ILE:CD1	2.44	0.47
1:A:87:VAL:O	1:A:91:TYR:HB2	2.14	0.47
1:A:390:TYR:O	1:A:391:VAL:HB	2.14	0.47
1:A:415:ASP:H	1:A:435:VAL:HG12	1.79	0.47
1:A:747:LEU:HG	1:A:784:SER:O	2.14	0.47
1:A:872:PHE:CD2	1:A:876:VAL:HG11	2.49	0.47
2:C:28:ILE:HG21	8:K:14:HIS:HB3	1.96	0.47
2:C:35:LEU:O	2:C:39:LYS:HE3	2.14	0.47
2:C:349:VAL:HG21	2:C:352:LYS:HB2	1.96	0.47
3:B:541:ARG:NH2	3:B:557:HIS:CD2	2.82	0.47
3:B:579:LEU:CD1	3:B:616:LEU:HD12	2.38	0.47
3:B:589:VAL:C	3:B:591:ILE:HD12	2.34	0.47
3:B:911:ASN:O	3:B:913:HIS:N	2.47	0.47
3:B:974:ARG:HB2	9:L:22:HIS:CD2	2.48	0.47
4:D:131:VAL:HA	10:N:2:LEU:HD11	1.94	0.47
4:D:175:ASN:OD1	4:D:195:LEU:HG	2.14	0.47
4:D:216:SER:C	4:D:217:ILE:HD12	2.32	0.47
4:D:250:ILE:H	4:D:250:ILE:HG13	1.42	0.47

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:H:45:ILE:CG2	7:H:79:ARG:HB3	2.43	0.47
8:K:21:SER:C	8:K:23:TRP:H	2.17	0.47
1:Q:196:GLY:HA3	2:G:360:ARG:HH21	1.78	0.47
1:Q:203:ARG:HD3	1:Q:203:ARG:N	2.29	0.47
1:Q:648:LEU:HD23	1:Q:648:LEU:C	2.33	0.47
1:Q:713:ASP:O	1:Q:717:LYS:HD2	2.14	0.47
1:Q:734:ARG:HG2	3:R:913:HIS:O	2.14	0.47
2:G:60:SER:O	2:G:63:LEU:HB3	2.14	0.47
2:G:298:SER:O	2:G:302:ALA:HB2	2.14	0.47
2:G:390:MET:HE3	2:G:390:MET:H	1.79	0.47
3:R:238:ILE:HA	3:R:241:ALA:CB	2.44	0.47
3:R:476:ILE:N	3:R:476:ILE:CD1	2.76	0.47
3:R:569:ASN:HB3	3:R:574:ARG:HH12	1.79	0.47
3:R:591:ILE:CD1	3:R:612:LYS:HZ3	2.25	0.47
3:R:1070:TYR:O	3:R:1071:ASP:C	2.53	0.47
6:U:21:LEU:HA	6:U:24:VAL:HG23	1.96	0.47
8:W:26:ARG:CG	8:W:90:LEU:HD13	2.44	0.47
10:Y:18:TRP:CH2	10:Y:54:ASP:OD1	2.67	0.47
1:A:551:VAL:CG1	1:A:552:ILE:N	2.72	0.47
1:A:870:ARG:NH2	2:C:57:LYS:O	2.47	0.47
2:C:112:ASP:O	2:C:113:ALA:CB	2.62	0.47
3:B:18:PHE:C	3:B:20:SER:H	2.18	0.47
3:B:238:ILE:HA	3:B:241:ALA:HB3	1.95	0.47
3:B:419:TRP:HZ3	3:B:712:GLY:C	2.17	0.47
3:B:579:LEU:HD12	3:B:616:LEU:CD1	2.38	0.47
3:B:604:PHE:O	3:B:607:LEU:HB2	2.14	0.47
3:B:620:GLU:C	3:B:622:GLU:N	2.66	0.47
3:B:663:SER:CB	3:B:664:PRO:CD	2.92	0.47
3:B:922:GLY:O	3:B:926:GLU:N	2.39	0.47
3:B:950:ILE:O	3:B:951:GLU:C	2.52	0.47
3:B:972:ASP:HB3	3:B:975:THR:CG2	2.44	0.47
3:B:972:ASP:O	3:B:974:ARG:N	2.48	0.47
3:B:1059:TYR:CD2	3:B:1090:PRO:HG3	2.50	0.47
3:B:1119:VAL:HG13	5:E:10:ILE:CD1	2.44	0.47
4:D:21:PRO:HB2	4:D:23:GLU:OE1	2.14	0.47
4:D:66:PRO:CG	10:N:13:LEU:HD11	2.45	0.47
5:E:82:GLN:CA	5:E:145:ARG:HG3	2.40	0.47
1:Q:342:ILE:HD13	1:Q:342:ILE:N	2.29	0.47
1:Q:573:ARG:HA	1:Q:582:HIS:CD2	2.49	0.47
1:Q:782:ILE:HG22	1:Q:784:SER:H	1.77	0.47
1:Q:814:SER:O	1:Q:818:TYR:HB2	2.15	0.47

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:311:ARG:N	2:G:311:ARG:CD	2.77	0.47
2:G:392:PRO:HB3	5:T:22:LEU:CD2	2.44	0.47
3:R:86:ARG:HA	3:R:156:GLY:HA3	1.95	0.47
3:R:206:LYS:HE3	3:R:220:LYS:HZ2	1.79	0.47
3:R:244:LEU:HD13	3:R:500:VAL:CB	2.42	0.47
3:R:416:ARG:NH1	3:R:687:ARG:HH22	2.04	0.47
3:R:446:HIS:O	3:R:447:GLY:C	2.51	0.47
3:R:724:LEU:CD1	3:R:908:ILE:HG22	2.42	0.47
4:S:159:VAL:HG23	4:S:231:GLU:C	2.35	0.47
9:X:35:ILE:CD1	9:X:75:ASN:ND2	2.77	0.47
1:A:316:LYS:HE2	3:B:1094:SER:OG	2.14	0.47
1:A:525:LEU:HG	9:L:40:PHE:HZ	1.79	0.47
1:A:747:LEU:HD12	1:A:790:LEU:HD11	1.96	0.47
2:C:15:GLU:HA	2:C:18:LYS:CG	2.44	0.47
3:B:53:ILE:HB	3:B:54:PRO:HD3	1.96	0.47
3:B:65:ILE:H	3:B:65:ILE:CD1	2.05	0.47
3:B:146:LYS:HE2	3:B:715:ASN:OD1	2.14	0.47
3:B:249:GLN:HB2	3:B:253:PHE:CE1	2.49	0.47
3:B:297:PHE:O	3:B:298:LEU:HB2	2.15	0.47
3:B:309:LYS:C	3:B:311:LYS:H	2.17	0.47
3:B:402:ASN:O	3:B:403:TRP:HB2	2.12	0.47
3:B:407:ARG:HE	3:B:407:ARG:CA	2.28	0.47
3:B:654:ILE:HD12	3:B:654:ILE:N	2.26	0.47
3:B:679:LEU:HD23	3:B:716:ARG:CD	2.45	0.47
3:B:1099:LEU:O	3:B:1102:GLN:HB2	2.14	0.47
5:E:90:LEU:O	5:E:91:GLN:HB2	2.15	0.47
5:E:119:LYS:HE3	5:E:130:GLU:OE2	2.14	0.47
5:E:168:TYR:CE2	6:F:81:ASP:HB3	2.49	0.47
1:Q:8:GLY:HA2	2:G:365:GLU:HA	1.95	0.47
1:Q:390:TYR:O	1:Q:391:VAL:CB	2.62	0.47
1:Q:421:ARG:HG3	1:Q:462:MET:HG2	1.96	0.47
1:Q:524:ILE:O	1:Q:524:ILE:HG22	2.14	0.47
1:Q:563:HIS:ND1	1:Q:876:VAL:HG13	2.29	0.47
1:Q:764:ARG:CB	1:Q:764:ARG:NH1	2.77	0.47
2:G:131:LYS:O	2:G:249:TYR:N	2.47	0.47
3:R:80:ILE:HD11	3:R:92:TYR:HA	1.95	0.47
3:R:430:ILE:HG12	3:R:467:VAL:CG2	2.40	0.47
3:R:683:ASN:C	3:R:685:GLN:H	2.17	0.47
3:R:771:ASP:CG	3:R:816:PRO:HD3	2.34	0.47
4:S:94:THR:O	4:S:95:LYS:HG3	2.15	0.47
4:S:247:LYS:HA	4:S:250:ILE:CD1	2.44	0.47

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:T:81:VAL:O	5:T:82:GLN:CB	2.62	0.47
6:U:33:LEU:O	6:U:34:LEU:HD23	2.15	0.47
9:X:33:ARG:HG2	9:X:41:ALA:HB3	1.95	0.47
1:A:196:GLY:HA3	2:C:360:ARG:HH21	1.80	0.47
1:A:208:ILE:N	1:A:208:ILE:HD12	2.30	0.47
1:A:220:ARG:H	1:A:221:PRO:CD	2.27	0.47
1:A:276:TYR:CD2	1:A:277:PHE:HE1	2.31	0.47
1:A:353:ILE:O	1:A:403:PRO:HA	2.13	0.47
1:A:431:MET:HB2	1:A:453:TYR:OH	2.14	0.47
1:A:867:ASP:HB2	2:C:39:LYS:HZ2	1.79	0.47
2:C:51:ILE:O	2:C:55:ALA:HB2	2.13	0.47
2:C:311:ARG:CD	2:C:311:ARG:N	2.77	0.47
3:B:34:PHE:CE1	3:B:351:ALA:HA	2.48	0.47
3:B:63:ILE:CD1	3:B:63:ILE:N	2.75	0.47
3:B:393:ARG:NE	3:B:403:TRP:HZ3	2.06	0.47
3:B:590:THR:O	3:B:593:ASP:HB2	2.14	0.47
3:B:669:GLN:HA	3:B:669:GLN:NE2	2.30	0.47
3:B:759:SER:CB	3:B:863:LYS:HA	2.44	0.47
3:B:958:LEU:HD23	3:B:958:LEU:C	2.34	0.47
3:B:1051:ASP:HA	3:B:1055:ARG:HG2	1.96	0.47
4:D:254:GLU:HG3	9:L:77:ARG:HH12	1.79	0.47
1:Q:59:PRO:HG2	1:Q:61:CYS:SG	2.54	0.47
1:Q:181:ARG:NH1	1:Q:185:GLU:OE2	2.47	0.47
1:Q:305:LYS:N	1:Q:310:ARG:HD2	2.28	0.47
1:Q:667:ARG:HG2	1:Q:667:ARG:HH11	1.80	0.47
1:Q:864:LYS:HE2	7:V:71:LEU:O	2.14	0.47
2:G:37:LEU:O	2:G:39:LYS:N	2.47	0.47
2:G:386:VAL:HG21	8:W:31:GLU:HA	1.95	0.47
3:R:393:ARG:HG2	3:R:393:ARG:O	2.14	0.47
3:R:1066:TYR:CD2	3:R:1105:MET:HE3	2.49	0.47
5:T:114:THR:C	5:T:165:ARG:HE	2.18	0.47
9:X:12:TYR:HA	9:X:57:ILE:O	2.14	0.47
9:X:24:LEU:O	9:X:28:ILE:HG12	2.14	0.47
1:A:500:GLN:O	1:A:501:ASP:C	2.51	0.47
1:A:607:GLN:HB2	1:A:608:PRO:CD	2.43	0.47
1:A:664:GLU:OE1	1:A:707:LEU:HD22	2.14	0.47
1:A:727:VAL:O	1:A:728:MET:C	2.52	0.47
2:C:390:MET:CE	5:E:58:ILE:C	2.83	0.47
3:B:56:LEU:CD1	3:B:104:GLU:HG2	2.45	0.47
3:B:330:ARG:HH11	3:B:330:ARG:CG	2.22	0.47
3:B:462:PRO:C	3:B:464:SER:H	2.17	0.47

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:594:ILE:C	3:B:599:SER:HB3	2.35	0.47
3:B:633:LEU:O	3:B:635:PRO:HD2	2.15	0.47
3:B:669:GLN:NE2	3:B:669:GLN:CA	2.78	0.47
3:B:1040:GLY:HA3	8:K:30:TYR:HE2	1.80	0.47
3:B:1078:VAL:HG11	3:B:1082:HIS:HB3	1.96	0.47
4:D:96:ILE:CG1	4:D:143:ALA:HB3	2.44	0.47
4:D:133:LEU:HD21	4:D:139:ILE:HD11	1.96	0.47
5:E:168:TYR:CZ	6:F:81:ASP:HB3	2.49	0.47
9:L:47:HIS:NE2	9:L:49:LEU:HB2	2.30	0.47
1:Q:206:TRP:C	1:Q:208:ILE:H	2.18	0.47
1:Q:244:ARG:O	1:Q:248:ARG:HG3	2.14	0.47
1:Q:282:PRO:O	1:Q:283:GLY:O	2.32	0.47
1:Q:449:VAL:O	1:Q:452:PRO:HG2	2.14	0.47
1:Q:828:SER:C	1:Q:830:LEU:N	2.68	0.47
2:G:277:ILE:HG22	2:G:278:ARG:N	2.25	0.47
3:R:70:VAL:CG1	3:R:80:ILE:HG21	2.45	0.47
3:R:81:SER:O	3:R:84:GLU:N	2.37	0.47
3:R:669:GLN:HG2	3:R:881:ARG:O	2.15	0.47
3:R:687:ARG:NH1	3:R:687:ARG:HG3	2.28	0.47
4:S:47:ILE:HB	4:S:140:SER:OG	2.14	0.47
5:T:18:PHE:CZ	8:W:42:GLN:HG2	2.49	0.47
5:T:29:GLU:OE1	5:T:29:GLU:HA	2.15	0.47
8:W:16:ASN:O	8:W:19:PHE:HB3	2.14	0.47
1:A:219:ILE:N	1:A:219:ILE:CD1	2.78	0.47
1:A:304:GLY:C	1:A:310:ARG:HD2	2.35	0.47
1:A:807:VAL:CG1	3:B:443:ARG:NH1	2.77	0.47
2:C:12:TYR:HD1	2:C:12:TYR:H	1.62	0.47
2:C:275:ASN:O	2:C:275:ASN:OD1	2.33	0.47
2:C:365:GLU:HG2	2:C:366:PHE:N	2.30	0.47
3:B:538:ASN:O	3:B:542:GLU:HG3	2.14	0.47
3:B:956:GLU:C	3:B:958:LEU:H	2.17	0.47
3:B:1036:LEU:O	3:B:1039:PHE:O	2.33	0.47
3:B:1079:CYS:SG	3:B:1080:PRO:CD	3.03	0.47
5:E:97:ILE:CD1	5:E:136:ILE:HG21	2.44	0.47
6:F:54:LYS:HZ2	6:F:54:LYS:CB	2.28	0.47
6:F:72:LEU:HD23	6:F:86:ILE:HD13	1.95	0.47
1:Q:208:ILE:N	1:Q:208:ILE:HD12	2.28	0.47
1:Q:341:GLU:O	1:Q:345:LYS:HG3	2.14	0.47
1:Q:415:ASP:O	1:Q:435:VAL:HG12	2.13	0.47
1:Q:444:ARG:HG3	1:Q:444:ARG:HH11	1.79	0.47
1:Q:490:ARG:CZ	2:G:80:GLU:HG3	2.45	0.47

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:551:VAL:CG1	1:Q:552:ILE:N	2.75	0.47
1:Q:696:LEU:HD13	1:Q:696:LEU:C	2.34	0.47
1:Q:757:ILE:O	1:Q:779:ARG:HA	2.15	0.47
2:G:12:TYR:H	2:G:12:TYR:HD1	1.63	0.47
2:G:15:GLU:HA	2:G:18:LYS:HD2	1.95	0.47
2:G:86:THR:O	2:G:104:LEU:CD1	2.62	0.47
2:G:132:ARG:H	2:G:132:ARG:NE	2.11	0.47
2:G:275:ASN:OD1	2:G:275:ASN:O	2.33	0.47
2:G:379:ILE:CD1	3:R:1045:LEU:HD22	2.44	0.47
3:R:457:GLU:O	3:R:458:THR:OG1	2.31	0.47
3:R:536:LEU:CD2	3:R:540:ILE:HG13	2.44	0.47
3:R:633:LEU:O	3:R:635:PRO:N	2.48	0.47
3:R:1033:ARG:HG3	3:R:1034:ASP:N	2.28	0.47
3:R:1069:TRP:NE1	3:R:1088:LEU:HD22	2.27	0.47
4:S:101:GLU:HG2	4:S:102:ALA:N	2.28	0.47
10:Y:22:ILE:HG12	10:Y:23:THR:N	2.29	0.47
1:A:23:SER:OG	1:A:24:VAL:N	2.46	0.47
1:A:27:ILE:HB	1:A:75:ILE:HD12	1.96	0.47
1:A:214:VAL:HG22	1:A:239:LEU:HD21	1.95	0.47
1:A:217:ILE:O	1:A:221:PRO:HD3	2.14	0.47
1:A:557:PRO:HD3	1:A:623:TYR:OH	2.15	0.47
1:A:757:ILE:O	1:A:779:ARG:HA	2.15	0.47
1:A:759:ARG:HH21	1:A:763:THR:HG23	1.80	0.47
1:A:819:MET:HA	1:A:822:ARG:HE	1.80	0.47
1:A:820:GLN:O	1:A:823:LEU:HD12	2.14	0.47
2:C:133:ASP:C	2:C:135:ASP:N	2.67	0.47
3:B:63:ILE:HG13	3:B:98:LEU:CA	2.44	0.47
3:B:97:TRP:HZ3	3:B:113:GLU:OE2	1.97	0.47
3:B:244:LEU:HD13	3:B:500:VAL:CB	2.43	0.47
3:B:248:VAL:HA	3:B:251:GLU:CD	2.34	0.47
3:B:381:LEU:O	3:B:385:VAL:HG23	2.15	0.47
3:B:560:THR:HG22	3:B:563:ILE:H	1.80	0.47
3:B:702:LEU:HD22	10:N:47:ARG:NH1	2.29	0.47
4:D:34:LEU:HD22	4:D:151:LYS:CB	2.43	0.47
4:D:80:GLU:HA	4:D:83:ILE:CD1	2.45	0.47
4:D:94:THR:O	4:D:95:LYS:HG3	2.15	0.47
4:D:101:GLU:CG	4:D:102:ALA:H	2.28	0.47
4:D:172:ILE:HD12	4:D:172:ILE:N	2.30	0.47
4:D:247:LYS:HA	4:D:250:ILE:CD1	2.45	0.47
4:D:263:VAL:O	4:D:263:VAL:HG12	2.15	0.47
5:E:21:PRO:HG2	5:E:24:GLU:OE2	2.15	0.47

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:123:VAL:O	5:E:125:GLY:N	2.48	0.47
7:H:81:VAL:O	7:H:82:ILE:CG1	2.63	0.47
8:K:41:LEU:HD23	8:K:45:MET:HG3	1.96	0.47
8:K:43:LEU:C	8:K:45:MET:H	2.18	0.47
8:K:49:ALA:O	8:K:50:LEU:O	2.32	0.47
8:K:71:ARG:O	8:K:72:GLY:C	2.51	0.47
9:L:15:LEU:O	9:L:54:ILE:HA	2.15	0.47
1:Q:17:ASP:O	1:Q:21:LYS:HG3	2.15	0.47
1:Q:217:ILE:O	1:Q:221:PRO:HD3	2.15	0.47
1:Q:415:ASP:H	1:Q:435:VAL:HG12	1.79	0.47
1:Q:428:ILE:CG2	1:Q:452:PRO:HB2	2.44	0.47
1:Q:488:THR:HG22	1:Q:490:ARG:N	2.29	0.47
1:Q:498:ALA:HB3	1:Q:503:ILE:HG22	1.96	0.47
1:Q:532:ILE:O	1:Q:532:ILE:HG22	2.15	0.47
1:Q:551:VAL:CG1	1:Q:552:ILE:H	2.26	0.47
1:Q:700:ILE:O	1:Q:704:LEU:HG	2.15	0.47
1:Q:747:LEU:HG	1:Q:784:SER:O	2.15	0.47
1:Q:830:LEU:CD2	1:Q:846:VAL:HG21	2.44	0.47
2:G:124:ILE:HG12	2:G:272:VAL:HG13	1.97	0.47
2:G:146:TYR:HB2	2:G:238:LYS:HD3	1.96	0.47
2:G:390:MET:HE1	5:T:58:ILE:O	2.14	0.47
3:R:17:TYR:HA	3:R:604:PHE:CB	2.44	0.47
3:R:56:LEU:CD1	3:R:104:GLU:HG2	2.44	0.47
3:R:63:ILE:CD1	3:R:63:ILE:N	2.76	0.47
3:R:102:PRO:C	3:R:108:GLU:OE1	2.53	0.47
3:R:227:MET:O	3:R:232:ILE:HB	2.15	0.47
3:R:321:LYS:HD2	3:R:330:ARG:NE	2.27	0.47
3:R:407:ARG:HA	3:R:407:ARG:HE	1.80	0.47
3:R:537:ALA:CB	3:R:557:HIS:NE2	2.66	0.47
3:R:587:PRO:O	3:R:588:LEU:CD2	2.56	0.47
3:R:589:VAL:O	3:R:590:THR:C	2.53	0.47
3:R:589:VAL:C	3:R:591:ILE:HD12	2.34	0.47
3:R:661:ASN:ND2	3:R:921:LEU:O	2.43	0.47
3:R:1069:TRP:CD1	3:R:1088:LEU:HD13	2.50	0.47
3:R:1071:ASP:C	3:R:1073:ASN:N	2.68	0.47
4:S:38:ILE:HD12	4:S:39:MET:C	2.34	0.47
4:S:151:LYS:O	4:S:152:GLU:O	2.33	0.47
5:T:23:ASN:HA	5:T:26:ALA:HB3	1.96	0.47
5:T:38:ILE:HG22	5:T:39:LEU:N	2.24	0.47
5:T:41:ASP:O	5:T:42:LEU:HD23	2.14	0.47
5:T:123:VAL:O	5:T:125:GLY:N	2.48	0.47

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:U:36:ARG:O	6:U:40:TYR:N	2.43	0.47
6:U:68:VAL:O	6:U:72:LEU:HG	2.14	0.47
8:W:26:ARG:HB3	8:W:27:LEU:CD1	2.43	0.47
1:A:647:ARG:HH21	4:D:211:ARG:HH12	1.62	0.47
3:B:17:TYR:HA	3:B:604:PHE:HB2	1.96	0.47
3:B:97:TRP:CE3	3:B:113:GLU:HB3	2.50	0.47
3:B:183:ILE:HB	3:B:207:ASP:O	2.14	0.47
3:B:762:GLU:OE2	3:B:773:ILE:HG13	2.15	0.47
4:D:50:ASN:HD22	10:N:64:ARG:NH1	2.12	0.47
4:D:256:LEU:HD12	9:L:3:ILE:HG13	1.96	0.47
5:E:96:GLY:HA2	5:E:110:ILE:HG12	1.96	0.47
5:E:113:ILE:CG2	5:E:114:THR:H	2.26	0.47
10:N:48:MET:HE3	10:N:48:MET:HA	1.97	0.47
1:Q:418:LEU:HD23	1:Q:430:MET:HE2	1.97	0.47
1:Q:532:ILE:HG23	9:X:40:PHE:CD1	2.50	0.47
1:Q:645:THR:HA	3:R:912:PRO:HG2	1.97	0.47
2:G:124:ILE:CG2	2:G:267:VAL:HG13	2.44	0.47
3:R:193:THR:HG1	3:R:198:VAL:HA	1.80	0.47
3:R:343:LEU:N	3:R:343:LEU:CD1	2.77	0.47
3:R:474:ALA:HB3	3:R:578:PRO:HD3	1.96	0.47
3:R:490:TYR:OH	3:R:527:ILE:HG23	2.14	0.47
3:R:800:PRO:HG2	11:Z:38:ARG:N	2.30	0.47
3:R:1076:LYS:O	3:R:1078:VAL:N	2.48	0.47
4:S:176:CYS:H	4:S:195:LEU:CD2	2.27	0.47
1:A:336:GLU:OE1	1:A:436:ARG:NH1	2.48	0.47
1:A:363:GLN:O	1:A:366:ILE:CG2	2.62	0.47
1:A:469:SER:HB2	1:A:472:ALA:H	1.80	0.47
1:A:488:THR:HG22	1:A:491:TYR:H	1.78	0.47
1:A:552:ILE:C	1:A:554:ALA:N	2.68	0.47
2:C:37:LEU:O	2:C:39:LYS:N	2.47	0.47
2:C:55:ALA:HA	2:C:58:GLU:CD	2.34	0.47
2:C:70:ILE:HD13	2:C:71:GLY:H	1.79	0.47
2:C:310:ILE:N	2:C:310:ILE:CD1	2.67	0.47
3:B:291:GLN:O	3:B:295:LYS:HE2	2.14	0.47
3:B:320:SER:O	3:B:324:GLU:OE2	2.32	0.47
3:B:669:GLN:HG2	3:B:881:ARG:O	2.15	0.47
3:B:725:ALA:HB1	3:B:985:PHE:CE1	2.50	0.47
6:F:9:GLU:O	6:F:10:HIS:ND1	2.47	0.47
8:K:74:LEU:HD12	8:K:74:LEU:N	2.29	0.47
10:N:24:ARG:HD2	10:N:34:VAL:CG1	2.44	0.47
10:N:28:GLY:O	10:N:29:GLU:O	2.32	0.47

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:68:CYS:SG	1:Q:71:HIS:CE1	3.08	0.47
1:Q:561:ASN:HD22	1:Q:589:LYS:HA	1.79	0.47
1:Q:646:MET:SD	3:R:915:LEU:HD23	2.55	0.47
1:Q:674:ASN:OD1	1:Q:675:LEU:N	2.48	0.47
1:Q:757:ILE:O	1:Q:757:ILE:HG22	2.15	0.47
1:Q:758:LYS:HB2	1:Q:759:ARG:HD2	1.96	0.47
2:G:106:ARG:HG2	2:G:106:ARG:HH11	1.79	0.47
3:R:366:THR:O	3:R:370:GLU:HB2	2.15	0.47
3:R:814:VAL:O	3:R:814:VAL:HG12	2.15	0.47
3:R:950:ILE:C	3:R:952:GLN:N	2.68	0.47
3:R:1061:CYS:CA	3:R:1088:LEU:HD23	2.45	0.47
3:R:1073:ASN:C	3:R:1075:ASN:N	2.67	0.47
4:S:125:SER:C	4:S:127:ASP:N	2.68	0.47
7:V:62:ILE:H	7:V:62:ILE:CD1	2.27	0.47
1:A:4:LYS:HE2	3:B:1060:VAL:HG23	1.97	0.47
1:A:23:SER:O	1:A:24:VAL:CG1	2.63	0.47
1:A:61:CYS:HB3	1:A:63:ASN:HD21	1.80	0.47
1:A:193:GLU:C	1:A:195:LEU:H	2.18	0.47
1:A:305:LYS:N	1:A:310:ARG:HD2	2.29	0.47
1:A:353:ILE:CG1	1:A:361:LEU:HD23	2.44	0.47
1:A:481:LEU:CD2	1:A:482:VAL:N	2.75	0.47
1:A:667:ARG:HG2	1:A:667:ARG:NH1	2.29	0.47
1:A:675:LEU:CD2	1:A:684:LEU:HD11	2.45	0.47
1:A:752:VAL:O	1:A:753:ARG:HB3	2.14	0.47
2:C:52:PHE:O	2:C:56:ILE:HG12	2.15	0.47
2:C:65:ALA:HB1	8:K:19:PHE:CE1	2.50	0.47
2:C:72:ILE:HG22	2:C:76:GLN:OE1	2.15	0.47
2:C:337:GLU:CD	2:C:337:GLU:N	2.68	0.47
2:C:366:PHE:CZ	2:C:375:ILE:HD12	2.50	0.47
2:C:392:PRO:CB	5:E:22:LEU:HD21	2.45	0.47
3:B:11:TRP:CZ2	3:B:706:ARG:HG2	2.49	0.47
3:B:80:ILE:HD11	3:B:92:TYR:HA	1.97	0.47
3:B:86:ARG:HA	3:B:156:GLY:HA3	1.96	0.47
3:B:446:HIS:O	3:B:447:GLY:C	2.54	0.47
3:B:582:VAL:HG11	3:B:633:LEU:HD11	1.97	0.47
3:B:935:LEU:O	10:N:46:ARG:NH1	2.48	0.47
4:D:66:PRO:HB2	4:D:124:ILE:CG1	2.41	0.47
5:E:38:ILE:HD12	5:E:38:ILE:H	1.80	0.47
5:E:97:ILE:HD12	5:E:113:ILE:CD1	2.43	0.47
5:E:109:HIS:CD2	5:E:111:SER:H	2.33	0.47
1:Q:517:THR:HG22	1:Q:518:LYS:H	1.80	0.47

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:564:GLY:O	1:Q:586:VAL:N	2.45	0.47
1:Q:579:ASP:O	1:Q:580:CYS:SG	2.70	0.47
1:Q:594:LEU:O	1:Q:595:GLU:O	2.32	0.47
2:G:42:ILE:HD12	2:G:42:ILE:H	1.79	0.47
2:G:65:ALA:HB1	8:W:19:PHE:CE1	2.50	0.47
2:G:366:PHE:HB3	2:G:372:ASN:OD1	2.14	0.47
3:R:116:ILE:HD12	3:R:361:PHE:HZ	1.79	0.47
3:R:655:ILE:HG12	3:R:669:GLN:HG2	1.98	0.47
3:R:725:ALA:HB1	3:R:985:PHE:CE1	2.50	0.47
4:S:101:GLU:CG	4:S:102:ALA:H	2.28	0.47
5:T:151:SER:HB3	5:T:158:PRO:HB3	1.97	0.47
8:W:28:THR:O	8:W:31:GLU:N	2.48	0.47
8:W:50:LEU:O	8:W:52:ASP:N	2.48	0.47
8:W:61:VAL:C	8:W:63:SER:H	2.18	0.47
9:X:65:PRO:HG2	9:X:66:LYS:H	1.79	0.47
1:A:8:GLY:HA2	2:C:365:GLU:HA	1.97	0.46
1:A:297:THR:O	1:A:300:GLN:HB3	2.14	0.46
1:A:490:ARG:HG3	2:C:308:VAL:HG23	1.96	0.46
1:A:674:ASN:O	1:A:677:GLN:N	2.48	0.46
1:A:749:GLN:HA	1:A:781:PHE:CA	2.45	0.46
1:A:830:LEU:CD2	1:A:846:VAL:HG21	2.46	0.46
1:A:837:THR:HG23	1:A:847:GLN:O	2.15	0.46
3:B:38:LYS:CG	3:B:39:LEU:H	2.19	0.46
3:B:50:PRO:CG	3:B:51:THR:H	2.19	0.46
3:B:64:ARG:N	3:B:64:ARG:HD3	2.30	0.46
3:B:243:SER:O	3:B:249:GLN:OE1	2.32	0.46
3:B:278:ILE:CG2	3:B:279:GLY:N	2.78	0.46
3:B:344:ARG:C	3:B:345:LEU:HD12	2.36	0.46
3:B:536:LEU:O	3:B:539:LYS:N	2.48	0.46
3:B:569:ASN:HB3	3:B:574:ARG:HH12	1.80	0.46
3:B:793:GLU:HB3	3:B:794:ASP:H	1.62	0.46
3:B:1013:THR:HB	3:B:1015:GLN:HG3	1.96	0.46
3:B:1083:GLY:O	3:B:1085:LYS:N	2.48	0.46
6:F:16:VAL:C	6:F:18:LYS:N	2.65	0.46
6:F:57:GLU:C	6:F:59:LEU:N	2.67	0.46
1:Q:262:ILE:CD1	1:Q:266:TRP:HE1	2.27	0.46
1:Q:276:TYR:CD2	1:Q:277:PHE:CD1	3.03	0.46
1:Q:302:LEU:HA	1:Q:308:ARG:H	1.80	0.46
1:Q:387:ASP:CG	1:Q:388:LEU:N	2.68	0.46
1:Q:759:ARG:NH2	1:Q:763:THR:HG23	2.30	0.46
2:G:65:ALA:CB	8:W:19:PHE:CE1	2.98	0.46

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:252:LEU:C	3:R:254:PRO:HD2	2.35	0.46
3:R:699:GLN:HE22	10:Y:48:MET:HE3	1.81	0.46
3:R:902:LYS:O	3:R:904:VAL:HG23	2.15	0.46
3:R:1036:LEU:HD13	3:R:1044:LEU:HD23	1.97	0.46
4:S:21:PRO:HG3	9:X:79:MET:HE1	1.96	0.46
4:S:167:TYR:CD1	4:S:227:ILE:HD11	2.50	0.46
8:W:80:ARG:O	8:W:82:LEU:HD23	2.15	0.46
1:A:357:ASN:O	1:A:359:GLU:N	2.48	0.46
1:A:376:ASN:N	1:A:376:ASN:HD22	2.13	0.46
1:A:390:TYR:O	1:A:391:VAL:CB	2.63	0.46
1:A:691:THR:O	1:A:694:GLU:HB2	2.15	0.46
2:C:54:LEU:O	2:C:54:LEU:HD23	2.15	0.46
3:B:28:LEU:C	3:B:30:SER:N	2.68	0.46
3:B:226:LEU:HD13	3:B:297:PHE:HE1	1.81	0.46
3:B:262:ILE:N	3:B:262:ILE:HD12	2.29	0.46
3:B:407:ARG:HE	3:B:407:ARG:HA	1.80	0.46
3:B:725:ALA:CB	3:B:906:PRO:HB3	2.42	0.46
3:B:768:GLY:O	3:B:769:GLN:CB	2.63	0.46
3:B:915:LEU:HB3	3:B:916:PRO:CD	2.45	0.46
3:B:978:LYS:NZ	4:D:205:LEU:HD13	2.29	0.46
3:B:1076:LYS:O	3:B:1078:VAL:N	2.48	0.46
3:B:1098:LYS:O	3:B:1102:GLN:HG3	2.15	0.46
3:B:1113:LEU:H	3:B:1113:LEU:HD12	1.79	0.46
5:E:170:GLY:H	5:E:175:ILE:HD11	1.79	0.46
8:K:19:PHE:O	8:K:20:ILE:C	2.53	0.46
1:Q:212:LEU:HD23	1:Q:242:ILE:HG21	1.97	0.46
2:G:41:ILE:CG2	2:G:42:ILE:HD12	2.45	0.46
2:G:55:ALA:C	2:G:57:LYS:N	2.66	0.46
2:G:292:ILE:CG2	2:G:293:ILE:N	2.78	0.46
3:R:63:ILE:HA	3:R:98:LEU:H	1.81	0.46
3:R:123:LEU:HD22	3:R:151:TYR:CE1	2.50	0.46
3:R:227:MET:HE3	3:R:312:ALA:HB1	1.96	0.46
3:R:247:GLU:HA	3:R:250:ASN:HD22	1.80	0.46
3:R:591:ILE:CG1	3:R:612:LYS:HZ3	2.29	0.46
3:R:659:GLU:O	3:R:660:HIS:CD2	2.68	0.46
3:R:867:ARG:O	3:R:868:ASP:HB2	2.15	0.46
3:R:946:TYR:HD2	3:R:947:LYS:H	0.81	0.46
3:R:972:ASP:O	3:R:975:THR:HG23	2.15	0.46
3:R:1061:CYS:HA	3:R:1088:LEU:CD2	2.45	0.46
3:R:1074:LYS:CB	3:R:1076:LYS:HE2	2.36	0.46
4:S:30:ARG:O	4:S:34:LEU:HG	2.16	0.46

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:T:147:ILE:CD1	5:T:163:THR:HB	2.45	0.46
7:V:80:TYR:CE1	7:V:82:ILE:HD11	2.49	0.46
10:Y:7:CYS:SG	10:Y:45:CYS:SG	3.13	0.46
1:A:58:CYS:CB	1:A:59:PRO:CD	2.93	0.46
1:A:218:THR:CG2	3:B:1098:LYS:NZ	2.78	0.46
1:A:218:THR:HG21	3:B:1098:LYS:NZ	2.31	0.46
1:A:316:LYS:HE2	3:B:1054:ASP:OD2	2.15	0.46
1:A:487:ILE:HG22	1:A:493:GLY:C	2.35	0.46
1:A:750:GLN:HG3	1:A:782:ILE:HD11	1.97	0.46
1:A:757:ILE:O	1:A:757:ILE:HG22	2.15	0.46
1:A:759:ARG:N	1:A:779:ARG:HH21	2.12	0.46
1:A:839:ARG:NH2	8:K:83:PRO:HG3	2.30	0.46
1:A:841:LEU:C	1:A:843:GLY:H	2.18	0.46
2:C:390:MET:HG3	5:E:56:GLU:HG2	1.96	0.46
3:B:23:LEU:HD22	3:B:23:LEU:H	1.80	0.46
3:B:341:LYS:HZ2	3:B:341:LYS:HB3	1.80	0.46
3:B:707:ALA:O	3:B:709:ASP:N	2.48	0.46
3:B:797:VAL:HG12	3:B:798:VAL:O	2.15	0.46
3:B:903:GLY:HA3	4:D:161:LEU:HD12	1.98	0.46
3:B:910:LEU:HD12	3:B:923:GLN:HE21	1.80	0.46
3:B:940:VAL:HG21	3:B:953:LEU:HD11	1.96	0.46
3:B:1011:ILE:H	3:B:1011:ILE:CD1	2.12	0.46
3:B:1069:TRP:CH2	3:B:1077:TYR:CB	2.94	0.46
4:D:66:PRO:CG	10:N:13:LEU:HD21	2.45	0.46
4:D:128:ILE:CG1	10:N:16:ASP:HB3	2.45	0.46
6:F:30:SER:HB3	6:F:38:TYR:HE1	1.80	0.46
1:Q:434:ARG:HE	1:Q:434:ARG:HB3	1.47	0.46
1:Q:691:THR:HG22	1:Q:692:LEU:N	2.30	0.46
2:G:135:ASP:C	2:G:137:ALA:H	2.18	0.46
3:R:128:ASP:OD1	3:R:130:ILE:CG1	2.63	0.46
3:R:250:ASN:O	3:R:252:LEU:N	2.48	0.46
3:R:274:SER:C	3:R:276:VAL:H	2.19	0.46
3:R:482:GLU:O	3:R:483:ARG:C	2.53	0.46
3:R:669:GLN:HA	3:R:669:GLN:NE2	2.30	0.46
3:R:963:LEU:HA	3:R:964:PRO:HD3	1.80	0.46
4:S:105:GLU:N	4:S:135:THR:CG2	2.79	0.46
4:S:173:LEU:O	4:S:174:ALA:CB	2.64	0.46
4:S:182:VAL:HG11	4:S:212:TYR:CG	2.51	0.46
8:W:61:VAL:CG1	8:W:62:ILE:H	2.24	0.46
1:A:249:LEU:HD21	1:A:265:LEU:HB2	1.98	0.46
1:A:361:LEU:HD11	1:A:407:ILE:HD11	1.98	0.46

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:529:ASP:O	1:A:530:VAL:C	2.54	0.46
1:A:541:ALA:CB	1:A:542:PRO:HD3	2.40	0.46
1:A:551:VAL:CG1	1:A:552:ILE:H	2.24	0.46
1:A:631:LEU:HG	1:A:635:PHE:HE1	1.80	0.46
1:A:752:VAL:HG11	1:A:800:ALA:O	2.16	0.46
3:B:80:ILE:HD12	3:B:92:TYR:HA	1.97	0.46
3:B:173:LEU:HD22	3:B:333:ASP:HB3	1.97	0.46
3:B:196:TYR:CE2	3:B:303:THR:HG21	2.50	0.46
3:B:251:GLU:C	3:B:252:LEU:HG	2.35	0.46
3:B:280:GLN:O	3:B:281:LYS:C	2.53	0.46
3:B:345:LEU:HD11	3:B:476:ILE:HG13	1.97	0.46
3:B:545:ARG:HE	3:B:581:ILE:HD13	1.80	0.46
3:B:963:LEU:CD2	4:D:208:GLU:HG3	2.46	0.46
5:E:1:MET:HB2	5:E:78:VAL:O	2.15	0.46
5:E:85:VAL:HG11	5:E:101:LEU:HD13	1.97	0.46
5:E:175:ILE:HA	5:E:178:THR:OG1	2.16	0.46
9:L:87:ILE:HG22	9:L:88:LYS:H	1.80	0.46
11:P:20:VAL:O	11:P:20:VAL:HG23	2.15	0.46
1:Q:212:LEU:HD21	1:Q:242:ILE:CD1	2.46	0.46
1:Q:505:GLY:O	1:Q:506:ALA:O	2.34	0.46
1:Q:528:ALA:N	1:Q:630:ASN:OD1	2.36	0.46
1:Q:529:ASP:O	1:Q:530:VAL:C	2.54	0.46
1:Q:575:CYS:SG	1:Q:584:SER:HB3	2.55	0.46
1:Q:647:ARG:HD2	3:R:965:ASP:HB3	1.97	0.46
2:G:297:ILE:C	2:G:299:LYS:N	2.68	0.46
3:R:21:LYS:HD3	3:R:25:ARG:CZ	2.45	0.46
3:R:46:GLN:O	3:R:47:GLY:O	2.33	0.46
3:R:229:ALA:HB1	3:R:269:LEU:HD23	1.97	0.46
3:R:356:VAL:HG13	3:R:357:ALA:N	2.29	0.46
3:R:358:PHE:C	3:R:360:ALA:H	2.18	0.46
3:R:372:SER:O	3:R:373:LYS:HB2	2.14	0.46
3:R:526:LEU:HD23	3:R:526:LEU:C	2.36	0.46
3:R:526:LEU:HD23	3:R:527:ILE:N	2.30	0.46
3:R:663:SER:CB	3:R:664:PRO:CD	2.93	0.46
3:R:1074:LYS:HB2	3:R:1076:LYS:HG3	1.97	0.46
7:V:12:ARG:HD2	7:V:51:VAL:HG13	1.97	0.46
7:V:45:ILE:HB	7:V:79:ARG:CB	2.41	0.46
1:A:307:GLY:O	1:A:311:GLY:HA3	2.14	0.46
1:A:584:SER:O	1:A:585:TYR:C	2.54	0.46
1:A:608:PRO:O	1:A:609:GLU:CG	2.63	0.46
2:C:106:ARG:O	2:C:107:LEU:C	2.51	0.46

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:17:TYR:HA	3:B:604:PHE:CB	2.45	0.46
3:B:290:GLN:NE2	3:B:308:ARG:HH12	2.13	0.46
3:B:482:GLU:O	3:B:483:ARG:C	2.53	0.46
4:D:105:GLU:N	4:D:135:THR:CG2	2.79	0.46
8:K:79:ARG:NH1	8:K:79:ARG:HG3	2.27	0.46
1:Q:75:ILE:HG23	1:Q:75:ILE:O	2.14	0.46
1:Q:425:LEU:CD2	2:G:83:THR:HG21	2.45	0.46
1:Q:584:SER:O	1:Q:585:TYR:C	2.53	0.46
2:G:106:ARG:O	2:G:109:GLU:N	2.48	0.46
2:G:112:ASP:O	2:G:113:ALA:CB	2.62	0.46
2:G:130:TYR:HB3	2:G:136:LYS:HG3	1.98	0.46
2:G:269:VAL:HG12	7:V:14:HIS:CD2	2.51	0.46
3:R:65:ILE:HG22	3:R:66:GLY:H	1.80	0.46
3:R:95:PRO:HB2	3:R:115:TYR:CD2	2.51	0.46
3:R:251:GLU:C	3:R:252:LEU:HG	2.36	0.46
3:R:480:ILE:CG2	3:R:481:ASN:N	2.78	0.46
3:R:935:LEU:CD2	10:Y:43:TYR:HB3	2.45	0.46
3:R:955:ASN:O	3:R:958:LEU:HB3	2.14	0.46
3:R:1069:TRP:CZ3	3:R:1077:TYR:CB	2.98	0.46
4:S:187:VAL:HG21	14:S:1001:F3S:S4	2.56	0.46
5:T:117:THR:HG21	5:T:130:GLU:HG3	1.98	0.46
9:X:69:LEU:HD23	9:X:69:LEU:C	2.36	0.46
1:A:506:ALA:N	1:A:635:PHE:HD2	2.12	0.46
1:A:590:ASN:OD1	3:R:377:ARG:HD2	2.16	0.46
1:A:782:ILE:HG22	1:A:784:SER:N	2.31	0.46
2:C:24:LEU:O	2:C:29:VAL:HG23	2.15	0.46
2:C:131:LYS:O	2:C:249:TYR:N	2.49	0.46
3:B:134:THR:O	3:B:137:LYS:N	2.49	0.46
5:E:15:PRO:HA	5:E:18:PHE:CD1	2.50	0.46
9:L:83:TYR:O	9:L:87:ILE:HB	2.15	0.46
1:Q:8:GLY:H	2:G:366:PHE:HE1	1.62	0.46
1:Q:325:VAL:CG2	1:Q:442:THR:HG22	2.46	0.46
1:Q:872:PHE:CD2	1:Q:876:VAL:HG11	2.51	0.46
2:G:104:LEU:C	2:G:104:LEU:CD2	2.84	0.46
3:R:28:LEU:O	3:R:30:SER:N	2.38	0.46
3:R:265:VAL:O	3:R:268:ALA:HB3	2.16	0.46
3:R:309:LYS:C	3:R:311:LYS:H	2.18	0.46
3:R:655:ILE:HG23	3:R:881:ARG:O	2.14	0.46
3:R:764:LYS:CD	3:R:815:SER:HA	2.43	0.46
3:R:790:ARG:C	3:R:792:LEU:N	2.69	0.46
3:R:875:GLY:HA2	3:R:887:VAL:HG11	1.98	0.46

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:902:LYS:CB	10:Y:42:ARG:NH1	2.75	0.46
3:R:931:LYS:HB3	3:R:957:ILE:HG21	1.98	0.46
5:T:85:VAL:HG11	5:T:101:LEU:HD13	1.98	0.46
6:U:80:SER:O	6:U:84:ARG:HB2	2.15	0.46
8:W:70:ARG:C	8:W:72:GLY:N	2.67	0.46
10:Y:3:ILE:HA	10:Y:52:HIS:NE2	2.30	0.46
1:A:4:LYS:HB3	3:B:1090:PRO:O	2.15	0.46
1:A:206:TRP:C	1:A:208:ILE:H	2.19	0.46
1:A:282:PRO:O	1:A:283:GLY:O	2.34	0.46
1:A:498:ALA:HB3	1:A:503:ILE:HG22	1.98	0.46
1:A:704:LEU:HD22	1:A:781:PHE:CD1	2.50	0.46
1:A:841:LEU:CD2	2:C:367:LYS:HB2	2.46	0.46
2:C:289:ALA:O	2:C:290:ARG:C	2.54	0.46
3:B:220:LYS:O	3:B:275:ARG:NH1	2.48	0.46
3:B:343:LEU:HD11	3:B:575:VAL:CG2	2.45	0.46
3:B:727:MET:HA	3:B:912:PRO:HG2	1.97	0.46
3:B:1063:GLN:HE22	3:B:1085:LYS:HD2	1.80	0.46
4:D:50:ASN:ND2	10:N:64:ARG:NH1	2.63	0.46
4:D:134:GLY:HA3	10:N:60:ILE:HD11	1.98	0.46
10:N:3:ILE:HG22	10:N:4:PRO:CD	2.46	0.46
1:Q:364:PHE:HD2	1:Q:373:PRO:O	1.99	0.46
1:Q:418:LEU:HD23	1:Q:430:MET:CE	2.46	0.46
1:Q:449:VAL:O	1:Q:449:VAL:HG12	2.16	0.46
1:Q:761:TYR:CB	1:Q:764:ARG:HG3	2.45	0.46
3:R:353:LEU:O	3:R:354:PHE:C	2.54	0.46
3:R:699:GLN:CA	10:Y:51:SER:O	2.63	0.46
3:R:789:TYR:CD2	3:R:789:TYR:N	2.68	0.46
3:R:846:ILE:HG22	3:R:846:ILE:O	2.15	0.46
3:R:1079:CYS:SG	3:R:1080:PRO:CD	3.02	0.46
3:R:1113:LEU:H	3:R:1113:LEU:HD12	1.79	0.46
1:A:276:TYR:CD2	1:A:277:PHE:CD1	3.01	0.46
1:A:489:PRO:HA	1:A:858:MET:HG3	1.96	0.46
1:A:573:ARG:HA	1:A:582:HIS:CD2	2.51	0.46
1:A:667:ARG:O	1:A:670:VAL:CG2	2.62	0.46
1:A:827:LEU:HD11	2:C:315:LEU:CD1	2.44	0.46
1:A:853:ASP:HB3	1:A:855:VAL:HB	1.97	0.46
2:C:120:PRO:CA	2:C:275:ASN:ND2	2.67	0.46
3:B:225:ILE:HD13	3:B:271:PHE:HB3	1.97	0.46
3:B:429:VAL:CG1	3:B:453:MET:HE1	2.46	0.46
3:B:435:ARG:CG	3:B:435:ARG:NH1	2.75	0.46
3:B:482:GLU:OE2	3:B:525:ARG:NH1	2.49	0.46

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:814:VAL:O	3:B:814:VAL:HG12	2.15	0.46
3:B:926:GLU:HB3	3:B:988:VAL:HG22	1.98	0.46
3:B:992:LYS:HE3	3:B:996:MET:SD	2.56	0.46
4:D:101:GLU:HG2	4:D:102:ALA:N	2.29	0.46
4:D:182:VAL:HG11	4:D:212:TYR:CG	2.50	0.46
9:L:7:LYS:HE3	9:L:12:TYR:CE2	2.50	0.46
10:N:63:THR:HB	10:N:64:ARG:HD3	1.96	0.46
1:Q:820:GLN:O	1:Q:823:LEU:HD12	2.15	0.46
3:R:54:PRO:O	3:R:56:LEU:N	2.49	0.46
3:R:441:GLU:O	3:R:441:GLU:HG2	2.16	0.46
3:R:687:ARG:HH11	3:R:687:ARG:CB	2.29	0.46
3:R:979:ILE:C	3:R:979:ILE:HD12	2.36	0.46
4:S:158:PRO:O	4:S:233:VAL:HG22	2.15	0.46
4:S:178:LYS:HA	4:S:181:ASN:HD22	1.81	0.46
5:T:38:ILE:H	5:T:38:ILE:HD12	1.81	0.46
5:T:168:TYR:CE2	6:U:81:ASP:HB3	2.51	0.46
6:U:63:VAL:O	6:U:63:VAL:HG12	2.16	0.46
10:Y:24:ARG:HD2	10:Y:34:VAL:CG1	2.45	0.46
1:A:212:LEU:HD23	1:A:242:ILE:HG21	1.98	0.46
1:A:391:VAL:O	1:A:392:LYS:O	2.34	0.46
1:A:532:ILE:HG22	1:A:532:ILE:O	2.16	0.46
3:B:13:VAL:HG22	3:B:592:GLU:OE2	2.16	0.46
3:B:274:SER:C	3:B:276:VAL:H	2.20	0.46
3:B:543:ARG:NH2	3:B:548:GLU:OE2	2.48	0.46
3:B:754:PHE:CE2	3:B:756:ARG:HB2	2.47	0.46
3:B:814:VAL:HA	3:B:833:ARG:O	2.15	0.46
3:B:904:VAL:CG2	10:N:42:ARG:NE	2.78	0.46
4:D:167:TYR:CD1	4:D:227:ILE:HD11	2.50	0.46
5:E:124:ARG:NH2	5:E:137:GLN:OE1	2.49	0.46
9:L:69:LEU:HD23	9:L:73:ILE:HG12	1.97	0.46
9:L:87:ILE:HG23	9:L:88:LYS:N	2.31	0.46
10:N:23:THR:HG22	10:N:24:ARG:N	2.30	0.46
1:Q:441:LEU:HD12	3:R:873:THR:HG21	1.97	0.46
1:Q:451:PRO:HG2	1:Q:605:ASN:OD1	2.16	0.46
1:Q:524:ILE:HG23	1:Q:634:VAL:HG13	1.98	0.46
1:Q:675:LEU:CD2	1:Q:684:LEU:HD11	2.46	0.46
1:Q:728:MET:HE3	3:R:913:HIS:ND1	2.30	0.46
1:Q:752:VAL:HG11	1:Q:800:ALA:O	2.15	0.46
2:G:70:ILE:HA	2:G:73:VAL:CG2	2.42	0.46
2:G:103:GLY:HA3	2:G:300:VAL:CG1	2.45	0.46
2:G:117:PRO:HD2	2:G:120:PRO:HG3	1.98	0.46

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:5:LEU:HB2	3:R:630:PRO:HG3	1.97	0.46
3:R:80:ILE:HD12	3:R:92:TYR:HA	1.97	0.46
3:R:97:TRP:CE3	3:R:113:GLU:HB3	2.51	0.46
3:R:226:LEU:HD13	3:R:297:PHE:HE1	1.81	0.46
3:R:249:GLN:O	3:R:250:ASN:C	2.55	0.46
3:R:656:PRO:HG3	3:R:926:GLU:HG3	1.97	0.46
3:R:657:TYR:O	3:R:658:PRO:C	2.53	0.46
3:R:1083:GLY:O	3:R:1085:LYS:N	2.49	0.46
4:S:52:PRO:CG	10:Y:56:ILE:HD11	2.46	0.46
4:S:141:LEU:C	4:S:141:LEU:HD12	2.37	0.46
5:T:163:THR:C	5:T:164:MET:HG3	2.35	0.46
6:U:13:PRO:HB2	6:U:73:ALA:O	2.15	0.46
6:U:18:LYS:HZ2	6:U:45:GLU:HG2	1.80	0.46
11:Z:9:CYS:SG	11:Z:10:TRP:O	2.74	0.46
1:A:759:ARG:HH21	1:A:763:THR:HA	1.81	0.46
2:C:41:ILE:CG2	2:C:42:ILE:HD12	2.45	0.46
3:B:54:PRO:O	3:B:55:GLY:C	2.55	0.46
3:B:139:ILE:CG2	10:N:61:HIS:HD2	2.26	0.46
3:B:238:ILE:HA	3:B:241:ALA:CB	2.46	0.46
3:B:252:LEU:C	3:B:254:PRO:HD2	2.36	0.46
3:B:519:LYS:HD2	3:B:565:GLU:HG2	1.98	0.46
3:B:804:VAL:CG1	3:B:805:LYS:N	2.79	0.46
4:D:155:LYS:NZ	11:P:47:ALA:O	2.48	0.46
8:K:28:THR:O	8:K:31:GLU:N	2.48	0.46
9:L:45:GLN:HE22	9:L:48:PRO:N	2.13	0.46
10:N:53:VAL:O	10:N:54:ASP:HB3	2.16	0.46
1:Q:12:GLY:HA3	1:Q:201:THR:O	2.16	0.46
1:Q:19:ILE:HA	1:Q:22:MET:HE2	1.98	0.46
1:Q:552:ILE:C	1:Q:554:ALA:N	2.69	0.46
1:Q:569:SER:HB2	1:Q:584:SER:HG	1.78	0.46
1:Q:665:ILE:O	1:Q:669:LYS:HG3	2.15	0.46
3:R:202:ILE:CG2	3:R:203:GLU:N	2.79	0.46
3:R:248:VAL:HA	3:R:251:GLU:CD	2.35	0.46
3:R:367:TYR:HD2	3:R:367:TYR:C	2.19	0.46
3:R:790:ARG:HG3	3:R:791:LEU:HD23	1.98	0.46
3:R:813:LYS:HE2	3:R:835:THR:HG21	1.98	0.46
3:R:867:ARG:CZ	4:S:54:TYR:CE2	2.99	0.46
3:R:898:PRO:HA	3:R:971:TYR:O	2.15	0.46
4:S:63:ALA:HB1	4:S:155:LYS:NZ	2.28	0.46
4:S:204:THR:O	4:S:206:CYS:N	2.48	0.46
5:T:10:ILE:HD12	5:T:10:ILE:N	2.30	0.46

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:T:113:ILE:CG2	5:T:114:THR:N	2.78	0.46
5:T:179:LYS:NZ	6:U:82:GLU:HG3	2.31	0.46
7:V:28:ALA:C	7:V:30:LYS:H	2.20	0.46
9:X:45:GLN:OE1	9:X:45:GLN:O	2.34	0.46
10:Y:23:THR:HG22	10:Y:24:ARG:N	2.31	0.46
1:A:94:LEU:C	1:A:96:ALA:H	2.18	0.45
1:A:302:LEU:HA	1:A:308:ARG:H	1.82	0.45
1:A:313:LEU:CD2	3:B:1100:LEU:HD22	2.46	0.45
1:A:440:GLY:HA3	1:A:444:ARG:NH2	2.31	0.45
1:A:522:GLN:HG2	9:L:40:PHE:CD1	2.51	0.45
1:A:552:ILE:HD12	1:A:553:SER:N	2.31	0.45
2:C:146:TYR:HB2	2:C:238:LYS:HD3	1.99	0.45
2:C:311:ARG:HD3	2:C:311:ARG:N	2.29	0.45
3:B:577:ARG:HG2	3:B:579:LEU:HD21	1.98	0.45
3:B:633:LEU:O	3:B:635:PRO:N	2.49	0.45
3:B:651:THR:CG2	3:B:670:SER:HA	2.45	0.45
3:B:705:THR:HB	3:B:708:LEU:HB2	1.98	0.45
3:B:719:GLY:O	3:B:989:TYR:CE1	2.69	0.45
3:B:952:GLN:O	3:B:953:LEU:C	2.55	0.45
3:B:965:ASP:C	3:B:967:THR:H	2.16	0.45
3:B:975:THR:CG2	3:B:977:GLN:HG2	2.46	0.45
3:B:1073:ASN:C	3:B:1075:ASN:N	2.67	0.45
4:D:27:ALA:HB1	9:L:23:THR:CG2	2.46	0.45
4:D:107:ARG:N	4:D:133:LEU:O	2.32	0.45
4:D:133:LEU:HD11	4:D:139:ILE:HG12	1.98	0.45
11:P:9:CYS:SG	11:P:10:TRP:O	2.74	0.45
1:Q:234:ASP:O	1:Q:236:THR:N	2.49	0.45
1:Q:369:PRO:HB3	1:Q:376:ASN:CB	2.26	0.45
1:Q:397:LEU:O	1:Q:400:THR:HB	2.16	0.45
1:Q:532:ILE:O	1:Q:532:ILE:CG2	2.64	0.45
1:Q:555:PHE:CD2	1:Q:631:LEU:HD13	2.50	0.45
2:G:240:ALA:O	2:G:241:ILE:HG13	2.16	0.45
2:G:365:GLU:CG	2:G:366:PHE:H	2.29	0.45
2:G:384:GLY:HA2	5:T:61:PHE:HZ	1.80	0.45
3:R:18:PHE:C	3:R:20:SER:H	2.19	0.45
3:R:147:ASP:OD2	3:R:148:PRO:CD	2.63	0.45
3:R:248:VAL:HG21	3:R:329:ARG:HH12	1.81	0.45
3:R:278:ILE:HG22	3:R:279:GLY:H	1.79	0.45
3:R:373:LYS:CD	3:R:375:ARG:HD2	2.46	0.45
3:R:391:THR:O	3:R:394:ILE:HG22	2.16	0.45
3:R:474:ALA:HB1	3:R:615:TYR:CE2	2.52	0.45

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:744:SER:HB3	10:Y:8:PHE:HB3	1.98	0.45
3:R:934:ALA:HB2	10:Y:47:ARG:HH11	1.80	0.45
4:S:34:LEU:O	4:S:36:VAL:N	2.49	0.45
4:S:178:LYS:O	4:S:179:ALA:C	2.54	0.45
5:T:149:VAL:HG21	5:T:160:ILE:HG13	1.98	0.45
6:U:20:LEU:O	6:U:24:VAL:HG23	2.16	0.45
6:U:40:TYR:O	6:U:43:SER:OG	2.30	0.45
7:V:54:SER:O	7:V:56:ASN:N	2.49	0.45
1:A:184:LEU:HB3	1:A:204:PRO:HB2	1.97	0.45
1:A:415:ASP:O	1:A:435:VAL:HG12	2.17	0.45
1:A:821:ARG:O	1:A:825:ASN:ND2	2.43	0.45
2:C:124:ILE:CG2	2:C:267:VAL:HG13	2.46	0.45
2:C:130:TYR:HB3	2:C:136:LYS:HG3	1.98	0.45
2:C:315:LEU:HD23	2:C:315:LEU:HA	1.85	0.45
2:C:395:ARG:HG2	5:E:19:GLY:HA3	1.98	0.45
3:B:457:GLU:C	3:B:458:THR:OG1	2.55	0.45
3:B:790:ARG:C	3:B:792:LEU:N	2.69	0.45
3:B:1061:CYS:HB3	3:B:1064:CYS:C	2.36	0.45
4:D:2:SER:N	9:L:86:GLU:OE1	2.49	0.45
4:D:149:TYR:O	4:D:150:GLY:C	2.54	0.45
4:D:178:LYS:O	4:D:179:ALA:C	2.54	0.45
4:D:187:VAL:HG21	4:D:203:CYS:HB2	1.99	0.45
4:D:204:THR:O	4:D:205:LEU:C	2.54	0.45
5:E:10:ILE:N	5:E:10:ILE:HD12	2.32	0.45
5:E:179:LYS:HZ1	6:F:82:GLU:CG	2.24	0.45
6:F:18:LYS:HZ2	6:F:45:GLU:HG2	1.81	0.45
1:Q:474:ALA:C	1:Q:476:ALA:N	2.70	0.45
1:Q:631:LEU:HG	1:Q:635:PHE:HE1	1.81	0.45
1:Q:861:ALA:O	1:Q:862:HIS:CD2	2.69	0.45
3:R:249:GLN:HB2	3:R:253:PHE:CE1	2.51	0.45
3:R:367:TYR:C	3:R:367:TYR:CD2	2.90	0.45
3:R:549:ILE:HD13	3:R:549:ILE:HA	1.84	0.45
3:R:654:ILE:H	3:R:654:ILE:CD1	2.24	0.45
3:R:808:ASP:O	3:R:838:VAL:HG13	2.17	0.45
3:R:1078:VAL:HG11	3:R:1082:HIS:HB3	1.97	0.45
4:S:52:PRO:HB2	10:Y:56:ILE:HD11	1.98	0.45
4:S:176:CYS:N	4:S:195:LEU:CD2	2.79	0.45
1:A:12:GLY:HA3	1:A:201:THR:O	2.17	0.45
1:A:394:ARG:O	1:A:398:ALA:HB2	2.17	0.45
1:A:508:LEU:HB3	1:A:638:PHE:HE2	1.82	0.45
1:A:529:ASP:O	1:A:529:ASP:OD2	2.33	0.45

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:589:LYS:O	1:A:592:ILE:CB	2.65	0.45
1:A:764:ARG:CB	1:A:764:ARG:NH1	2.78	0.45
2:C:16:LYS:NZ	3:R:75:ARG:NH1	2.64	0.45
2:C:137:ALA:O	2:C:140:VAL:N	2.40	0.45
3:B:110:GLU:HA	3:B:111:PRO:HA	1.72	0.45
3:B:193:THR:CB	3:B:197:ARG:O	2.64	0.45
3:B:702:LEU:HD22	3:B:933:ALA:HB1	1.96	0.45
3:B:790:ARG:HG3	3:B:791:LEU:HD23	1.99	0.45
3:B:804:VAL:O	3:B:805:LYS:HD2	2.16	0.45
3:B:805:LYS:O	3:B:806:GLY:C	2.55	0.45
3:B:979:ILE:HD13	3:B:981:SER:H	1.82	0.45
4:D:145:LEU:HD12	4:D:145:LEU:N	2.30	0.45
4:D:213:CYS:CB	4:D:217:ILE:HD13	2.46	0.45
5:E:18:PHE:CE2	8:K:42:GLN:HG2	2.51	0.45
5:E:117:THR:HG21	5:E:130:GLU:HG3	1.98	0.45
6:F:88:VAL:HG12	6:F:89:MET:N	2.31	0.45
1:Q:23:SER:O	1:Q:24:VAL:CG1	2.64	0.45
1:Q:175:LEU:HD23	1:Q:176:THR:N	2.10	0.45
1:Q:309:PHE:HA	1:Q:313:LEU:HB2	1.97	0.45
1:Q:361:LEU:HG	1:Q:407:ILE:HG12	1.97	0.45
1:Q:375:ALA:HB2	1:Q:409:ARG:HA	1.98	0.45
1:Q:418:LEU:CD1	3:R:1044:LEU:HD11	2.44	0.45
1:Q:464:LEU:CD1	1:Q:464:LEU:C	2.85	0.45
1:Q:506:ALA:N	1:Q:635:PHE:HD2	2.15	0.45
2:G:337:GLU:CD	2:G:337:GLU:N	2.69	0.45
2:G:369:VAL:HG11	2:G:381:LEU:HD21	1.98	0.45
3:R:6:THR:CB	3:R:9:GLU:CB	2.95	0.45
3:R:232:ILE:HG23	3:R:237:ASP:HB3	1.98	0.45
3:R:330:ARG:O	3:R:331:GLU:CB	2.60	0.45
3:R:589:VAL:O	3:R:592:GLU:N	2.46	0.45
3:R:651:THR:CG2	3:R:670:SER:HA	2.45	0.45
3:R:899:TYR:OH	4:S:164:VAL:HB	2.16	0.45
3:R:935:LEU:O	10:Y:46:ARG:NH1	2.49	0.45
3:R:974:ARG:HB2	9:X:22:HIS:CD2	2.50	0.45
4:S:39:MET:O	4:S:67:PHE:HB2	2.17	0.45
4:S:110:TYR:HA	4:S:128:ILE:O	2.16	0.45
5:T:27:LEU:HD23	5:T:28:ASN:N	2.31	0.45
5:T:114:THR:CG2	5:T:115:ASP:N	2.80	0.45
8:W:61:VAL:CG1	8:W:62:ILE:N	2.76	0.45
9:X:45:GLN:HE22	9:X:48:PRO:HD3	1.82	0.45
1:A:498:ALA:CB	1:A:503:ILE:HG22	2.46	0.45

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:65:ALA:CB	8:K:19:PHE:CE1	2.99	0.45
2:C:104:LEU:C	2:C:104:LEU:HD23	2.37	0.45
3:B:62:LYS:C	3:B:63:ILE:HD12	2.35	0.45
3:B:103:VAL:HG13	3:B:106:ASN:C	2.37	0.45
3:B:128:ASP:OD1	3:B:130:ILE:HG13	2.16	0.45
3:B:250:ASN:O	3:B:252:LEU:N	2.50	0.45
3:B:757:LEU:HD23	3:B:758:TYR:H	1.77	0.45
3:B:921:LEU:C	3:B:923:GLN:N	2.69	0.45
3:B:934:ALA:HB1	10:N:43:TYR:HB2	1.99	0.45
3:B:1076:LYS:O	3:B:1078:VAL:HG23	2.16	0.45
4:D:52:PRO:CB	10:N:56:ILE:HD11	2.46	0.45
5:E:39:LEU:HD13	5:E:42:LEU:CD1	2.47	0.45
7:H:20:HIS:HB3	7:H:63:ILE:HG21	1.98	0.45
1:Q:58:CYS:CB	1:Q:59:PRO:CD	2.94	0.45
1:Q:487:ILE:O	1:Q:858:MET:HE2	2.15	0.45
1:Q:750:GLN:HG3	1:Q:782:ILE:HD11	1.98	0.45
1:Q:796:PHE:CZ	3:R:445:LEU:HB3	2.51	0.45
2:G:311:ARG:NH1	7:V:71:LEU:HD13	2.32	0.45
3:R:489:LEU:O	3:R:492:MET:N	2.46	0.45
3:R:654:ILE:HG22	3:R:654:ILE:O	2.16	0.45
3:R:940:VAL:HG23	3:R:947:LYS:HD3	1.98	0.45
3:R:946:TYR:CE1	3:R:949:PRO:HA	2.51	0.45
4:S:93:TYR:CE1	4:S:144:ARG:NH2	2.84	0.45
4:S:175:ASN:OD1	4:S:195:LEU:HG	2.15	0.45
5:T:39:LEU:HD13	5:T:42:LEU:CD1	2.46	0.45
6:U:57:GLU:C	6:U:59:LEU:N	2.68	0.45
6:U:57:GLU:O	6:U:59:LEU:N	2.50	0.45
8:W:30:TYR:CD1	8:W:30:TYR:N	2.84	0.45
1:A:206:TRP:CZ3	1:A:209:LEU:HD23	2.52	0.45
1:A:417:VAL:CG1	1:A:464:LEU:HD13	2.47	0.45
1:A:529:ASP:HB3	1:A:626:TRP:CD1	2.51	0.45
1:A:550:GLN:O	1:A:553:SER:N	2.49	0.45
1:A:672:VAL:CG1	1:A:700:ILE:HD12	2.35	0.45
2:C:359:ALA:C	2:C:361:GLY:H	2.20	0.45
3:B:181:SER:O	3:B:182:ASN:CB	2.64	0.45
3:B:278:ILE:HG23	3:B:285:ARG:NH2	2.31	0.45
3:B:304:SER:O	3:B:305:ALA:C	2.55	0.45
3:B:367:TYR:HD2	3:B:367:TYR:C	2.20	0.45
3:B:526:LEU:HD23	3:B:527:ILE:N	2.31	0.45
3:B:707:ALA:C	3:B:709:ASP:N	2.70	0.45
3:B:745:VAL:CG1	3:B:872:PRO:HG2	2.45	0.45

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:950:ILE:C	3:B:952:GLN:N	2.69	0.45
4:D:38:ILE:HD12	4:D:39:MET:C	2.37	0.45
4:D:173:LEU:O	4:D:174:ALA:CB	2.63	0.45
6:F:14:TYR:O	6:F:18:LYS:HE3	2.17	0.45
6:F:30:SER:HB3	6:F:38:TYR:CE1	2.51	0.45
8:K:27:LEU:HD12	8:K:27:LEU:N	2.31	0.45
9:L:12:TYR:HA	9:L:57:ILE:O	2.17	0.45
1:Q:51:VAL:HG23	1:Q:58:CYS:HB3	1.98	0.45
1:Q:394:ARG:O	1:Q:398:ALA:HB2	2.16	0.45
1:Q:431:MET:HE3	1:Q:482:VAL:HA	1.98	0.45
1:Q:490:ARG:HG3	2:G:308:VAL:HG23	1.97	0.45
1:Q:490:ARG:HD3	2:G:77:SER:O	2.17	0.45
1:Q:651:VAL:HG21	1:Q:743:MET:HB3	1.97	0.45
1:Q:664:GLU:OE1	1:Q:707:LEU:HD22	2.16	0.45
2:G:281:GLU:OE1	2:G:326:VAL:CG1	2.62	0.45
2:G:321:THR:CG2	7:V:79:ARG:HH12	2.28	0.45
3:R:13:VAL:HG22	3:R:592:GLU:OE2	2.17	0.45
3:R:33:ASP:OD1	3:R:33:ASP:C	2.54	0.45
3:R:51:THR:HG21	3:R:370:GLU:OE1	2.17	0.45
3:R:804:VAL:HG12	3:R:805:LYS:N	2.31	0.45
3:R:805:LYS:O	3:R:806:GLY:C	2.55	0.45
3:R:950:ILE:O	3:R:951:GLU:C	2.54	0.45
4:S:133:LEU:HD21	4:S:139:ILE:CG1	2.46	0.45
4:S:134:GLY:HA3	10:Y:60:ILE:HD11	1.99	0.45
4:S:159:VAL:CG2	4:S:160:SER:N	2.78	0.45
5:T:3:LYS:CA	6:U:12:ILE:HG13	2.46	0.45
8:W:26:ARG:HG2	8:W:90:LEU:HD13	1.99	0.45
8:W:43:LEU:HD13	8:W:64:ILE:HD11	1.98	0.45
1:A:88:LYS:O	1:A:92:GLU:HG3	2.16	0.45
1:A:326:ILE:HG13	1:A:326:ILE:O	2.16	0.45
1:A:527:VAL:HG11	1:A:530:VAL:HB	1.97	0.45
1:A:665:ILE:O	1:A:669:LYS:HG3	2.17	0.45
1:A:828:SER:C	1:A:830:LEU:N	2.70	0.45
1:A:830:LEU:CD1	1:A:846:VAL:HG21	2.47	0.45
1:A:852:ASP:HB2	7:H:71:LEU:HD12	1.99	0.45
2:C:341:VAL:HG13	2:C:364:GLU:HG2	1.98	0.45
3:B:462:PRO:O	3:B:464:SER:N	2.49	0.45
3:B:463:ASN:HB3	3:B:467:VAL:CG1	2.45	0.45
3:B:764:LYS:CD	3:B:815:SER:HA	2.41	0.45
3:B:978:LYS:NZ	4:D:205:LEU:HD22	2.32	0.45
4:D:190:LEU:HD11	4:D:195:LEU:HD23	1.98	0.45

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:64:GLY:N	8:K:41:LEU:CD2	2.79	0.45
6:F:16:VAL:O	6:F:18:LYS:N	2.49	0.45
8:K:34:ARG:C	8:K:37:SER:HB2	2.36	0.45
8:K:55:ASN:O	8:K:56:LEU:CB	2.65	0.45
10:N:40:VAL:HG11	10:N:46:ARG:HG3	1.98	0.45
1:Q:30:PRO:CB	1:Q:244:ARG:HA	2.46	0.45
1:Q:550:GLN:O	1:Q:553:SER:N	2.49	0.45
2:G:32:LEU:O	2:G:36:ILE:HG13	2.17	0.45
2:G:103:GLY:O	2:G:105:PRO:HD3	2.17	0.45
3:R:353:LEU:O	3:R:356:VAL:HG12	2.16	0.45
3:R:800:PRO:HD3	3:R:850:VAL:CG2	2.45	0.45
4:S:68:MET:HA	4:S:68:MET:HE3	1.99	0.45
4:S:69:SER:HA	4:S:72:ALA:CB	2.47	0.45
5:T:1:MET:HB2	5:T:78:VAL:O	2.16	0.45
7:V:20:HIS:HB3	7:V:63:ILE:CG2	2.46	0.45
8:W:70:ARG:O	8:W:72:GLY:N	2.49	0.45
10:Y:5:ILE:O	10:Y:6:ARG:HB2	2.16	0.45
10:Y:28:GLY:O	10:Y:29:GLU:O	2.34	0.45
1:A:220:ARG:NH1	1:A:236:THR:HG23	2.32	0.45
1:A:261:ILE:O	1:A:261:ILE:HG22	2.16	0.45
1:A:358:ILE:HD12	1:A:403:PRO:HD3	1.99	0.45
1:A:361:LEU:HG	1:A:407:ILE:HG12	1.98	0.45
1:A:649:GLU:HG3	3:B:965:ASP:OD1	2.17	0.45
1:A:823:LEU:HD13	2:C:75:ALA:O	2.16	0.45
1:A:841:LEU:HD23	2:C:367:LYS:HB2	1.99	0.45
1:A:872:PHE:HA	1:A:876:VAL:CB	2.45	0.45
2:C:132:ARG:H	2:C:132:ARG:NE	2.14	0.45
2:C:320:MET:HA	2:C:327:ARG:HG2	1.99	0.45
3:B:337:HIS:CD2	3:B:339:ALA:HB3	2.52	0.45
3:B:395:ARG:O	3:B:399:ALA:HB3	2.16	0.45
3:B:854:GLU:OE2	11:P:24:VAL:HB	2.17	0.45
3:B:1071:ASP:C	3:B:1073:ASN:N	2.69	0.45
4:D:125:SER:C	4:D:127:ASP:N	2.70	0.45
5:E:113:ILE:CG2	5:E:114:THR:N	2.79	0.45
5:E:114:THR:C	5:E:165:ARG:HE	2.20	0.45
5:E:147:ILE:O	5:E:148:SER:HB3	2.17	0.45
6:F:80:SER:O	6:F:84:ARG:HB2	2.16	0.45
1:Q:217:ILE:HD13	1:Q:220:ARG:CZ	2.46	0.45
1:Q:238:LYS:HZ3	1:Q:297:THR:CB	2.21	0.45
1:Q:488:THR:OG1	1:Q:495:ILE:HD12	2.16	0.45
1:Q:529:ASP:O	1:Q:529:ASP:OD2	2.34	0.45

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:555:PHE:HD1	1:Q:626:TRP:CH2	2.34	0.45
1:Q:661:ILE:HD12	1:Q:711:ALA:HB1	1.98	0.45
2:G:52:PHE:CA	2:G:55:ALA:HB3	2.46	0.45
2:G:328:GLN:O	2:G:333:GLY:HA3	2.16	0.45
3:R:17:TYR:HA	3:R:604:PHE:HB2	1.97	0.45
3:R:270:ASP:C	3:R:272:ILE:N	2.70	0.45
3:R:330:ARG:NH2	3:R:565:GLU:OE2	2.50	0.45
3:R:368:GLN:O	3:R:372:SER:HB3	2.15	0.45
3:R:768:GLY:O	3:R:769:GLN:CB	2.64	0.45
4:S:39:MET:CB	4:S:69:SER:OG	2.65	0.45
4:S:50:ASN:ND2	10:Y:64:ARG:CZ	2.80	0.45
5:T:147:ILE:O	5:T:148:SER:HB3	2.17	0.45
8:W:41:LEU:HD23	8:W:45:MET:HG3	1.99	0.45
10:Y:43:TYR:CD1	10:Y:44:CYS:N	2.85	0.45
1:A:181:ARG:NH1	1:A:185:GLU:OE2	2.50	0.45
1:A:474:ALA:C	1:A:476:ALA:N	2.69	0.45
1:A:594:LEU:O	1:A:595:GLU:O	2.34	0.45
1:A:831:ARG:NH2	2:C:385:MET:HG3	2.30	0.45
2:C:52:PHE:O	2:C:56:ILE:N	2.28	0.45
2:C:124:ILE:HG12	2:C:272:VAL:HG13	1.98	0.45
3:B:230:LEU:HD13	3:B:312:ALA:CA	2.47	0.45
3:B:303:THR:O	3:B:303:THR:HG22	2.16	0.45
3:B:661:ASN:OD1	3:B:882:HIS:HB3	2.17	0.45
3:B:688:THR:CG2	3:B:863:LYS:HZ2	2.30	0.45
3:B:749:MET:CB	10:N:8:PHE:CD1	2.98	0.45
3:B:766:PRO:O	3:B:768:GLY:N	2.49	0.45
3:B:798:VAL:O	11:P:36:MET:SD	2.75	0.45
3:B:1069:TRP:HB2	3:B:1070:TYR:H	1.59	0.45
4:D:228:LEU:CD1	4:D:230:ILE:HD11	2.44	0.45
7:H:20:HIS:HB3	7:H:63:ILE:CG2	2.46	0.45
8:K:13:LEU:HD23	8:K:15:PHE:HE1	1.82	0.45
8:K:77:THR:HG23	8:K:90:LEU:O	2.17	0.45
9:L:45:GLN:HE22	9:L:48:PRO:HD3	1.82	0.45
10:N:21:PHE:HE2	10:N:35:LEU:CD2	2.29	0.45
10:N:22:ILE:HG12	10:N:23:THR:N	2.32	0.45
1:Q:184:LEU:HB3	1:Q:204:PRO:HB2	1.98	0.45
1:Q:297:THR:O	1:Q:300:GLN:N	2.50	0.45
1:Q:524:ILE:O	1:Q:525:LEU:CD2	2.65	0.45
1:Q:749:GLN:HA	1:Q:781:PHE:CA	2.47	0.45
2:G:130:TYR:CD1	2:G:136:LYS:HE3	2.52	0.45
2:G:285:GLY:N	7:V:50:PRO:HG3	2.31	0.45

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:390:MET:O	2:G:391:ARG:CD	2.64	0.45
3:R:6:THR:CB	3:R:9:GLU:HB3	2.47	0.45
3:R:64:ARG:N	3:R:64:ARG:HD3	2.32	0.45
3:R:223:PHE:CD2	3:R:256:LEU:HD22	2.52	0.45
3:R:281:LYS:HB2	3:R:284:ASN:HB2	1.99	0.45
3:R:419:TRP:HZ3	3:R:712:GLY:C	2.20	0.45
3:R:462:PRO:C	3:R:464:SER:H	2.19	0.45
3:R:618:ALA:C	3:R:620:GLU:N	2.68	0.45
3:R:679:LEU:HD23	3:R:716:ARG:CG	2.46	0.45
4:S:132:LEU:HD12	10:Y:60:ILE:HD13	1.97	0.45
6:U:14:TYR:CD1	6:U:74:SER:CB	2.96	0.45
1:A:79:ARG:CB	1:A:266:TRP:CE3	2.86	0.45
1:A:430:MET:HB2	3:B:1035:CYS:SG	2.57	0.45
1:A:517:THR:CG2	1:A:518:LYS:N	2.79	0.45
1:A:541:ALA:O	1:A:542:PRO:C	2.54	0.45
1:A:635:PHE:O	1:A:639:VAL:HG23	2.17	0.45
1:A:645:THR:HA	3:B:912:PRO:HG2	1.98	0.45
1:A:807:VAL:HG11	3:B:443:ARG:HH11	1.80	0.45
3:B:137:LYS:O	3:B:140:GLU:HB2	2.17	0.45
3:B:453:MET:CG	3:B:468:LYS:HD2	2.40	0.45
3:B:479:GLY:C	3:B:480:ILE:HG13	2.36	0.45
3:B:538:ASN:O	3:B:542:GLU:CG	2.65	0.45
3:B:804:VAL:HG12	3:B:805:LYS:N	2.31	0.45
3:B:956:GLU:C	3:B:958:LEU:N	2.70	0.45
4:D:75:THR:OG1	4:D:76:TYR:CD1	2.70	0.45
1:Q:72:PHE:CD2	1:Q:72:PHE:N	2.85	0.45
1:Q:84:VAL:HG11	1:Q:274:ALA:HB1	1.98	0.45
1:Q:218:THR:HG22	1:Q:218:THR:O	2.17	0.45
1:Q:428:ILE:HD13	1:Q:428:ILE:HA	1.82	0.45
1:Q:465:HIS:HD2	3:R:1048:ARG:HD2	1.81	0.45
1:Q:498:ALA:CB	1:Q:503:ILE:HG22	2.47	0.45
1:Q:678:LYS:HD2	1:Q:684:LEU:HG	1.99	0.45
1:Q:826:ALA:H	2:G:335:THR:HG22	1.81	0.45
2:G:130:TYR:CB	2:G:136:LYS:HG3	2.47	0.45
2:G:320:MET:HA	2:G:327:ARG:HG2	1.98	0.45
3:R:53:ILE:HB	3:R:54:PRO:HD3	1.98	0.45
3:R:230:LEU:HD13	3:R:312:ALA:CA	2.46	0.45
3:R:388:ASP:O	3:R:391:THR:N	2.50	0.45
3:R:405:GLY:O	3:R:407:ARG:N	2.50	0.45
3:R:1040:GLY:HA3	8:W:30:TYR:CE2	2.50	0.45
4:S:129:PRO:HG2	10:Y:15:ALA:HB1	1.99	0.45

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:T:63:ASP:OD2	5:T:65:ALA:CB	2.63	0.45
1:A:46:ASP:O	1:A:46:ASP:OD1	2.35	0.45
1:A:84:VAL:HG11	1:A:274:ALA:HB1	1.99	0.45
1:A:187:ILE:HA	1:A:188:PRO:HD3	1.75	0.45
1:A:326:ILE:HG21	1:A:462:MET:HG3	1.98	0.45
1:A:353:ILE:HD12	1:A:353:ILE:N	2.31	0.45
1:A:579:ASP:O	1:A:580:CYS:SG	2.75	0.45
1:A:580:CYS:HA	1:A:581:PRO:HD2	1.77	0.45
1:A:728:MET:HG2	3:B:913:HIS:CE1	2.52	0.45
2:C:130:TYR:CB	2:C:136:LYS:HG3	2.47	0.45
2:C:285:GLY:N	7:H:50:PRO:HG3	2.32	0.45
3:B:95:PRO:HB2	3:B:115:TYR:CD2	2.52	0.45
3:B:116:ILE:HD12	3:B:361:PHE:HZ	1.75	0.45
3:B:353:LEU:O	3:B:354:PHE:C	2.55	0.45
3:B:483:ARG:HA	3:B:486:GLU:HG2	1.99	0.45
3:B:489:LEU:O	3:B:492:MET:N	2.49	0.45
3:B:657:TYR:O	3:B:658:PRO:C	2.55	0.45
3:B:955:ASN:O	3:B:958:LEU:HB3	2.17	0.45
3:B:988:VAL:CG1	3:B:989:TYR:N	2.80	0.45
4:D:52:PRO:CG	10:N:56:ILE:HD11	2.47	0.45
6:F:63:VAL:HG12	6:F:63:VAL:O	2.17	0.45
7:H:25:ILE:HD12	7:H:25:ILE:N	2.32	0.45
10:N:1:MET:O	10:N:2:LEU:HB2	2.17	0.45
1:Q:364:PHE:HA	1:Q:373:PRO:O	2.17	0.45
1:Q:674:ASN:O	1:Q:677:GLN:N	2.50	0.45
1:Q:782:ILE:HG12	1:Q:790:LEU:HD11	1.98	0.45
1:Q:852:ASP:HB2	7:V:71:LEU:HD12	1.99	0.45
2:G:285:GLY:N	7:V:50:PRO:CG	2.80	0.45
2:G:365:GLU:C	2:G:366:PHE:CD1	2.90	0.45
3:R:49:ILE:H	3:R:49:ILE:HG13	1.57	0.45
3:R:50:PRO:HB3	3:R:57:LYS:HG2	1.98	0.45
3:R:87:LEU:HD22	3:R:851:LEU:CD1	2.47	0.45
3:R:280:GLN:O	3:R:281:LYS:C	2.54	0.45
3:R:301:LEU:HD22	3:R:483:ARG:NH2	2.26	0.45
3:R:560:THR:HG22	3:R:563:ILE:H	1.82	0.45
3:R:696:HIS:HE1	3:R:869:LEU:HD23	1.82	0.45
3:R:735:GLU:O	3:R:736:ASP:O	2.34	0.45
3:R:978:LYS:NZ	4:S:205:LEU:HD13	2.32	0.45
3:R:988:VAL:CG1	3:R:989:TYR:N	2.80	0.45
4:S:145:LEU:HD12	4:S:145:LEU:N	2.32	0.45
5:T:90:LEU:O	5:T:91:GLN:HB2	2.17	0.45

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:T:175:ILE:HG22	5:T:175:ILE:O	2.17	0.45
6:U:9:GLU:O	6:U:10:HIS:ND1	2.50	0.45
7:V:47:ALA:HB2	7:V:81:VAL:HG13	1.98	0.45
8:W:39:ARG:NE	8:W:68:GLU:OE1	2.50	0.45
1:A:364:PHE:HD2	1:A:373:PRO:O	2.00	0.44
1:A:409:ARG:HH21	1:A:412:ILE:HG13	1.81	0.44
1:A:486:ILE:CD1	1:A:628:MET:HE2	2.47	0.44
1:A:490:ARG:CG	2:C:77:SER:HB3	2.47	0.44
1:A:558:LYS:CD	3:R:104:GLU:HB2	2.47	0.44
1:A:785:SER:C	1:A:787:ARG:N	2.70	0.44
2:C:365:GLU:C	2:C:366:PHE:CD1	2.90	0.44
3:B:92:TYR:O	3:B:92:TYR:CD2	2.70	0.44
3:B:202:ILE:CG2	3:B:203:GLU:N	2.80	0.44
3:B:388:ASP:OD1	3:B:391:THR:OG1	2.21	0.44
3:B:569:ASN:HB3	3:B:574:ARG:CZ	2.45	0.44
3:B:930:GLY:O	10:N:47:ARG:NH1	2.50	0.44
3:B:947:LYS:HG2	3:B:948:THR:OG1	2.16	0.44
4:D:167:TYR:HB2	4:D:225:LYS:O	2.17	0.44
5:E:41:ASP:O	5:E:42:LEU:HD23	2.17	0.44
5:E:58:ILE:HG22	5:E:59:LEU:N	2.32	0.44
5:E:115:ASP:O	5:E:116:ASP:HB2	2.18	0.44
5:E:179:LYS:NZ	6:F:81:ASP:HB2	2.32	0.44
6:F:56:ILE:O	6:F:59:LEU:HB3	2.17	0.44
8:K:28:THR:O	8:K:29:ARG:C	2.55	0.44
10:N:44:CYS:SG	10:N:45:CYS:N	2.90	0.44
1:Q:72:PHE:N	1:Q:72:PHE:HD2	2.16	0.44
1:Q:188:PRO:O	1:Q:192:VAL:HG23	2.17	0.44
1:Q:206:TRP:C	1:Q:208:ILE:N	2.70	0.44
1:Q:219:ILE:N	1:Q:219:ILE:CD1	2.80	0.44
1:Q:301:ARG:NH1	1:Q:308:ARG:NH1	2.65	0.44
1:Q:308:ARG:HH22	3:R:1012:LEU:CD1	2.29	0.44
1:Q:330:PRO:HG2	3:R:730:THR:O	2.17	0.44
1:Q:487:ILE:HG22	1:Q:493:GLY:C	2.38	0.44
1:Q:659:LYS:O	1:Q:663:ASN:HB2	2.17	0.44
2:G:67:GLY:HA2	2:G:385:MET:HE1	1.98	0.44
2:G:104:LEU:O	2:G:104:LEU:HD23	2.17	0.44
2:G:284:PHE:N	2:G:284:PHE:CD1	2.85	0.44
2:G:383:THR:O	5:T:61:PHE:HZ	2.00	0.44
2:G:388:LEU:CG	8:W:34:ARG:HG3	2.47	0.44
3:R:51:THR:O	3:R:51:THR:HG22	2.17	0.44
3:R:85:ALA:O	3:R:90:LEU:N	2.48	0.44

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:344:ARG:C	3:R:345:LEU:HD12	2.37	0.44
3:R:569:ASN:CG	3:R:574:ARG:HH22	2.21	0.44
3:R:633:LEU:O	3:R:635:PRO:HD2	2.17	0.44
3:R:633:LEU:C	3:R:635:PRO:HD2	2.38	0.44
3:R:669:GLN:NE2	3:R:669:GLN:CA	2.79	0.44
3:R:702:LEU:HD22	3:R:933:ALA:HB1	1.99	0.44
3:R:705:THR:HB	3:R:708:LEU:HB2	1.99	0.44
3:R:724:LEU:HD11	3:R:910:LEU:HB2	1.99	0.44
3:R:972:ASP:O	3:R:974:ARG:N	2.50	0.44
4:S:149:TYR:O	4:S:150:GLY:C	2.55	0.44
5:T:11:MET:HE2	6:U:11:TYR:CD2	2.53	0.44
9:X:67:ASP:C	9:X:69:LEU:N	2.70	0.44
9:X:70:LEU:HD12	9:X:70:LEU:N	2.33	0.44
3:B:249:GLN:C	3:B:253:PHE:CE1	2.90	0.44
3:B:281:LYS:HB2	3:B:284:ASN:HB2	1.98	0.44
3:B:530:TYR:OH	3:B:536:LEU:CG	2.65	0.44
3:B:536:LEU:O	3:B:539:LYS:HB2	2.17	0.44
3:B:602:ILE:HB	3:B:606:ASP:HB2	2.00	0.44
3:B:724:LEU:HD11	3:B:910:LEU:HB2	1.99	0.44
3:B:946:TYR:CE1	3:B:949:PRO:HA	2.53	0.44
3:B:979:ILE:C	3:B:979:ILE:HD12	2.37	0.44
4:D:178:LYS:HA	4:D:181:ASN:HD22	1.82	0.44
5:E:86:GLU:OE1	6:F:75:ILE:HG23	2.17	0.44
10:N:60:ILE:HG13	10:N:61:HIS:N	2.31	0.44
1:Q:362:ARG:HA	1:Q:365:VAL:HG12	1.99	0.44
1:Q:501:ASP:HB2	3:R:734:MET:SD	2.57	0.44
1:Q:649:GLU:HG3	3:R:965:ASP:OD1	2.16	0.44
1:Q:687:ILE:CD1	1:Q:695:SER:HB3	2.47	0.44
1:Q:785:SER:C	1:Q:787:ARG:N	2.70	0.44
1:Q:827:LEU:CD1	2:G:315:LEU:HD13	2.43	0.44
1:Q:853:ASP:HB3	1:Q:855:VAL:HB	1.99	0.44
2:G:52:PHE:O	2:G:56:ILE:HG12	2.17	0.44
2:G:301:LEU:O	2:G:304:GLN:HB2	2.17	0.44
3:R:320:SER:O	3:R:324:GLU:OE2	2.35	0.44
3:R:388:ASP:OD1	3:R:391:THR:OG1	2.25	0.44
3:R:536:LEU:O	3:R:537:ALA:C	2.55	0.44
3:R:872:PRO:HA	3:R:876:ASP:OD2	2.17	0.44
3:R:895:VAL:HG11	4:S:34:LEU:HG	1.99	0.44
4:S:98:ILE:HD11	4:S:114:ILE:HG12	1.99	0.44
5:T:42:LEU:O	5:T:76:THR:HG21	2.17	0.44
6:U:17:ALA:O	6:U:21:LEU:HG	2.16	0.44

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:U:18:LYS:NZ	6:U:41:LEU:O	2.43	0.44
8:W:60:ASP:O	8:W:61:VAL:O	2.35	0.44
10:Y:18:TRP:O	10:Y:21:PHE:HD1	2.00	0.44
1:A:219:ILE:HG22	3:B:1099:LEU:HD23	2.00	0.44
1:A:432:ALA:O	1:A:481:LEU:HD23	2.18	0.44
1:A:697:GLU:OE1	1:A:756:ARG:CD	2.64	0.44
2:C:15:GLU:O	2:C:19:GLN:N	2.51	0.44
2:C:80:GLU:CB	2:C:81:PRO:HD3	2.33	0.44
2:C:278:ARG:O	2:C:282:GLU:HG3	2.17	0.44
2:C:369:VAL:HG11	2:C:381:LEU:HD21	1.99	0.44
3:B:474:ALA:HB1	3:B:615:TYR:CE2	2.52	0.44
3:B:490:TYR:OH	3:B:527:ILE:HG23	2.16	0.44
3:B:855:THR:HB	3:B:857:GLU:H	1.81	0.44
4:D:59:ALA:O	4:D:62:LEU:HB2	2.17	0.44
5:E:163:THR:C	5:E:164:MET:HG3	2.37	0.44
5:E:175:ILE:O	5:E:175:ILE:HG22	2.17	0.44
6:F:60:SER:HA	6:F:69:ARG:NH2	2.33	0.44
8:K:16:ASN:O	8:K:19:PHE:HB3	2.17	0.44
9:L:65:PRO:HG2	9:L:66:LYS:H	1.81	0.44
1:Q:376:ASN:HA	1:Q:388:LEU:HD22	1.98	0.44
1:Q:541:ALA:CB	1:Q:542:PRO:HD3	2.39	0.44
2:G:115:LYS:O	2:G:116:VAL:CG1	2.56	0.44
2:G:391:ARG:HH22	8:W:39:ARG:HH12	1.62	0.44
3:R:137:LYS:O	3:R:140:GLU:HB2	2.18	0.44
3:R:191:SER:CA	3:R:300:HIS:NE2	2.72	0.44
3:R:545:ARG:HE	3:R:581:ILE:HD13	1.81	0.44
3:R:840:ARG:NH1	3:R:1021:ALA:HB2	2.33	0.44
3:R:1059:TYR:CE2	3:R:1090:PRO:HG3	2.52	0.44
6:U:14:TYR:HE2	6:U:40:TYR:OH	2.00	0.44
6:U:21:LEU:HA	6:U:24:VAL:CG2	2.48	0.44
7:V:24:ASN:O	7:V:27:GLU:HG2	2.17	0.44
8:W:13:LEU:HD23	8:W:15:PHE:HE1	1.82	0.44
8:W:27:LEU:HD12	8:W:27:LEU:N	2.33	0.44
10:Y:63:THR:HB	10:Y:64:ARG:HD3	2.00	0.44
1:A:77:LEU:HD13	1:A:81:VAL:CG2	2.47	0.44
1:A:217:ILE:HD13	1:A:220:ARG:CZ	2.47	0.44
1:A:532:ILE:O	1:A:532:ILE:CG2	2.66	0.44
1:A:647:ARG:HD2	3:B:965:ASP:HB3	1.99	0.44
1:A:747:LEU:HB2	1:A:782:ILE:HB	1.99	0.44
3:B:108:GLU:OE2	3:B:108:GLU:C	2.56	0.44
3:B:430:ILE:HG12	3:B:467:VAL:CG2	2.42	0.44

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:472:LEU:HD12	3:B:646:ALA:HA	1.99	0.44
3:B:563:ILE:HG23	3:B:565:GLU:OE1	2.18	0.44
3:B:655:ILE:HG23	3:B:881:ARG:O	2.17	0.44
3:B:805:LYS:O	3:B:808:ASP:CG	2.56	0.44
3:B:881:ARG:NH1	3:B:989:TYR:HB3	2.31	0.44
3:B:1091:VAL:O	3:B:1091:VAL:HG13	2.17	0.44
3:B:1108:ILE:O	3:B:1108:ILE:HG22	2.17	0.44
8:K:80:ARG:O	8:K:82:LEU:HD23	2.17	0.44
1:Q:203:ARG:NH1	1:Q:203:ARG:CG	2.68	0.44
1:Q:215:PRO:HB3	3:R:1106:SER:HB3	1.99	0.44
1:Q:369:PRO:HA	1:Q:410:HIS:CE1	2.47	0.44
1:Q:488:THR:HG23	1:Q:490:ARG:H	1.82	0.44
1:Q:495:ILE:HG12	1:Q:495:ILE:O	2.18	0.44
1:Q:523:GLN:O	1:Q:525:LEU:N	2.51	0.44
1:Q:720:ASP:C	1:Q:722:PHE:N	2.71	0.44
1:Q:737:VAL:HA	1:Q:740:ILE:HB	1.98	0.44
1:Q:752:VAL:O	1:Q:753:ARG:HB3	2.18	0.44
2:G:21:SER:O	2:G:33:LYS:HE3	2.18	0.44
2:G:106:ARG:O	2:G:107:LEU:C	2.55	0.44
3:R:457:GLU:C	3:R:458:THR:OG1	2.56	0.44
3:R:519:LYS:HD2	3:R:565:GLU:HG2	1.98	0.44
3:R:702:LEU:HD13	10:Y:47:ARG:HD2	2.00	0.44
3:R:766:PRO:O	3:R:768:GLY:N	2.51	0.44
4:S:50:ASN:HD22	10:Y:64:ARG:NH1	2.15	0.44
5:T:164:MET:HA	5:T:169:LEU:HB3	1.99	0.44
8:W:74:LEU:N	8:W:74:LEU:HD12	2.32	0.44
1:A:220:ARG:HD2	1:A:236:THR:OG1	2.17	0.44
1:A:362:ARG:HA	1:A:365:VAL:HG12	2.00	0.44
1:A:487:ILE:N	1:A:487:ILE:CD1	2.80	0.44
1:A:687:ILE:CD1	1:A:695:SER:HB3	2.47	0.44
3:B:18:PHE:C	3:B:20:SER:N	2.71	0.44
3:B:46:GLN:O	3:B:47:GLY:O	2.35	0.44
3:B:325:LEU:HD13	3:B:331:GLU:H	1.82	0.44
3:B:367:TYR:C	3:B:367:TYR:CD2	2.90	0.44
3:B:413:LEU:O	3:B:414:LEU:C	2.54	0.44
3:B:634:THR:HB	3:B:635:PRO:HD3	1.99	0.44
3:B:902:LYS:HB3	10:N:42:ARG:CD	2.46	0.44
3:B:932:TYR:HB2	3:B:957:ILE:HG23	1.99	0.44
5:E:149:VAL:HG13	5:E:159:ARG:C	2.37	0.44
7:H:9:ILE:O	7:H:9:ILE:CG2	2.63	0.44
7:H:54:SER:HB3	7:H:55:ILE:H	1.64	0.44

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:K:26:ARG:HB3	8:K:27:LEU:CD1	2.46	0.44
9:L:83:TYR:CZ	9:L:87:ILE:HD12	2.52	0.44
10:N:18:TRP:O	10:N:20:SER:N	2.49	0.44
10:N:42:ARG:CG	10:N:43:TYR:N	2.76	0.44
11:P:31:TYR:HE2	11:P:33:ILE:HG13	1.82	0.44
1:Q:262:ILE:O	1:Q:266:TRP:CD1	2.71	0.44
1:Q:431:MET:HB2	1:Q:453:TYR:OH	2.18	0.44
2:G:309:ASP:OD2	2:G:310:ILE:N	2.51	0.44
3:R:193:THR:HG21	3:R:197:ARG:C	2.38	0.44
3:R:640:LEU:HD22	3:R:641:GLU:O	2.17	0.44
3:R:797:VAL:HG12	3:R:798:VAL:O	2.17	0.44
3:R:839:THR:O	3:R:840:ARG:C	2.56	0.44
4:S:190:LEU:HD11	4:S:195:LEU:HD23	2.00	0.44
5:T:109:HIS:CD2	5:T:111:SER:H	2.35	0.44
5:T:135:VAL:N	5:T:174:TRP:HZ2	2.09	0.44
7:V:42:LEU:O	7:V:43:PRO:C	2.56	0.44
7:V:47:ALA:C	7:V:49:ASP:H	2.19	0.44
8:W:14:HIS:O	8:W:15:PHE:C	2.55	0.44
1:A:189:ASP:O	1:A:199:PRO:HG3	2.17	0.44
1:A:206:TRP:O	1:A:206:TRP:CE3	2.71	0.44
2:C:390:MET:CB	5:E:56:GLU:HG3	2.35	0.44
3:B:54:PRO:O	3:B:56:LEU:N	2.50	0.44
3:B:119:LEU:HD11	3:B:350:PHE:HE2	1.83	0.44
3:B:119:LEU:HD11	3:B:350:PHE:CE2	2.52	0.44
3:B:235:ASP:C	3:B:237:ASP:H	2.19	0.44
3:B:405:GLY:O	3:B:407:ARG:N	2.51	0.44
3:B:747:ARG:HD3	10:N:8:PHE:HA	1.99	0.44
3:B:895:VAL:CG1	4:D:34:LEU:HD21	2.44	0.44
3:B:1041:THR:OG1	3:B:1044:LEU:HB3	2.18	0.44
4:D:80:GLU:HA	4:D:83:ILE:HD12	2.00	0.44
8:K:32:ILE:O	8:K:36:ILE:HG13	2.17	0.44
8:K:61:VAL:CG1	8:K:62:ILE:H	2.29	0.44
11:P:22:PRO:HG2	11:P:23:GLY:N	2.32	0.44
1:Q:82:ILE:O	1:Q:82:ILE:HG23	2.18	0.44
1:Q:321:SER:O	1:Q:322:SER:HB2	2.18	0.44
1:Q:377:TYR:N	1:Q:388:LEU:HB3	2.28	0.44
1:Q:394:ARG:HB3	1:Q:395:LYS:H	1.66	0.44
2:G:311:ARG:HD3	2:G:311:ARG:N	2.30	0.44
2:G:359:ALA:C	2:G:361:GLY:H	2.21	0.44
2:G:379:ILE:HD12	3:R:1045:LEU:HD22	1.99	0.44
3:R:11:TRP:CZ2	3:R:706:ARG:HG2	2.53	0.44

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:54:PRO:O	3:R:55:GLY:C	2.55	0.44
3:R:707:ALA:C	3:R:709:ASP:N	2.71	0.44
3:R:899:TYR:HE2	4:S:29:ARG:CZ	2.31	0.44
3:R:972:ASP:CG	3:R:974:ARG:HG2	2.38	0.44
3:R:1094:SER:O	3:R:1096:ALA:N	2.51	0.44
4:S:48:GLU:HB3	4:S:140:SER:CB	2.48	0.44
6:U:41:LEU:C	6:U:43:SER:H	2.16	0.44
7:V:47:ALA:HB2	7:V:81:VAL:CG1	2.48	0.44
8:W:34:ARG:C	8:W:37:SER:HB2	2.38	0.44
8:W:71:ARG:O	8:W:72:GLY:C	2.56	0.44
1:A:309:PHE:HA	1:A:313:LEU:HB2	1.99	0.44
1:A:505:GLY:O	1:A:506:ALA:O	2.36	0.44
1:A:696:LEU:C	1:A:696:LEU:HD13	2.38	0.44
2:C:67:GLY:HA2	2:C:385:MET:HE1	2.00	0.44
2:C:130:TYR:CG	2:C:136:LYS:HG3	2.52	0.44
3:B:83:MET:CE	3:B:686:LEU:HB2	2.48	0.44
3:B:633:LEU:C	3:B:635:PRO:HD2	2.38	0.44
3:B:699:GLN:CA	10:N:51:SER:O	2.65	0.44
3:B:1061:CYS:CA	3:B:1088:LEU:HD23	2.48	0.44
4:D:125:SER:O	4:D:127:ASP:N	2.41	0.44
4:D:178:LYS:O	4:D:181:ASN:N	2.51	0.44
5:E:44:LEU:O	5:E:44:LEU:HG	2.16	0.44
6:F:20:LEU:O	6:F:24:VAL:HG23	2.18	0.44
8:K:82:LEU:HB2	8:K:83:PRO:CD	2.46	0.44
10:N:5:ILE:O	10:N:6:ARG:HB2	2.18	0.44
1:Q:30:PRO:HD3	1:Q:247:GLU:OE1	2.18	0.44
1:Q:465:HIS:CD2	3:R:1048:ARG:HD2	2.53	0.44
1:Q:530:VAL:O	1:Q:530:VAL:CG1	2.58	0.44
1:Q:778:ALA:O	1:Q:780:GLY:N	2.50	0.44
2:G:21:SER:O	2:G:33:LYS:CE	2.66	0.44
3:R:163:THR:CG2	3:R:428:ARG:O	2.63	0.44
3:R:228:ARG:NH2	3:R:233:LEU:O	2.51	0.44
3:R:287:GLU:C	3:R:289:ALA:N	2.71	0.44
3:R:371:LYS:HB2	3:R:372:SER:H	1.65	0.44
3:R:396:HIS:C	3:R:400:THR:HG22	2.38	0.44
3:R:462:PRO:O	3:R:464:SER:N	2.51	0.44
3:R:745:VAL:CG1	3:R:872:PRO:HG2	2.48	0.44
3:R:1069:TRP:HH2	3:R:1072:LYS:HE3	1.82	0.44
4:S:96:ILE:CG1	4:S:143:ALA:HB3	2.47	0.44
4:S:213:CYS:CB	4:S:217:ILE:HD13	2.48	0.44
6:U:16:VAL:O	6:U:18:LYS:N	2.51	0.44

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:192:VAL:CG1	1:A:199:PRO:HD3	2.47	0.44
1:A:196:GLY:C	1:A:197:TYR:CD1	2.92	0.44
1:A:313:LEU:HD21	3:B:1100:LEU:CD2	2.47	0.44
1:A:331:ASN:ND2	3:B:732:TYR:OH	2.48	0.44
1:A:376:ASN:HA	1:A:388:LEU:HD22	2.00	0.44
1:A:491:TYR:HD2	2:C:308:VAL:HA	1.83	0.44
1:A:500:GLN:HB2	3:B:913:HIS:CD2	2.52	0.44
1:A:524:ILE:HG23	1:A:634:VAL:HG13	1.99	0.44
1:A:727:VAL:O	1:A:729:ALA:N	2.51	0.44
2:C:82:GLY:C	2:C:84:GLN:H	2.21	0.44
2:C:103:GLY:HA3	2:C:300:VAL:CG1	2.47	0.44
2:C:134:ARG:O	2:C:138:LEU:HB2	2.17	0.44
2:C:145:GLU:O	2:C:146:TYR:O	2.36	0.44
2:C:301:LEU:O	2:C:304:GLN:HB2	2.17	0.44
2:C:386:VAL:HG13	2:C:386:VAL:O	2.18	0.44
3:B:138:LEU:O	3:B:141:ILE:HB	2.18	0.44
3:B:366:THR:O	3:B:370:GLU:HB2	2.18	0.44
3:B:379:LEU:HD23	3:B:379:LEU:HA	1.80	0.44
3:B:416:ARG:HH12	3:B:687:ARG:NH2	1.99	0.44
3:B:520:VAL:C	3:B:521:ILE:HD12	2.38	0.44
3:B:569:ASN:CG	3:B:574:ARG:HH22	2.20	0.44
3:B:679:LEU:HD23	3:B:716:ARG:HG2	2.00	0.44
3:B:687:ARG:HH11	3:B:687:ARG:HG3	1.77	0.44
3:B:738:ILE:HG12	3:B:739:ILE:N	2.32	0.44
3:B:789:TYR:HA	3:B:792:LEU:HD12	1.98	0.44
4:D:161:LEU:HG	4:D:163:VAL:HG23	2.00	0.44
7:H:47:ALA:HB2	7:H:81:VAL:HG13	1.99	0.44
9:L:46:PRO:CD	9:L:52:LYS:O	2.65	0.44
1:Q:216:PRO:HG2	1:Q:219:ILE:CD1	2.44	0.44
1:Q:444:ARG:HG3	1:Q:444:ARG:NH1	2.33	0.44
2:G:37:LEU:C	2:G:39:LYS:H	2.21	0.44
2:G:54:LEU:O	2:G:58:GLU:N	2.51	0.44
2:G:386:VAL:HG11	8:W:34:ARG:CB	2.47	0.44
3:R:20:SER:O	3:R:25:ARG:NH2	2.51	0.44
3:R:63:ILE:HG13	3:R:98:LEU:CD2	2.46	0.44
3:R:138:LEU:O	3:R:141:ILE:HB	2.17	0.44
3:R:146:LYS:HB2	3:R:716:ARG:HH22	1.82	0.44
3:R:193:THR:OG1	3:R:197:ARG:O	2.36	0.44
3:R:388:ASP:O	3:R:389:ILE:C	2.56	0.44
3:R:407:ARG:HE	3:R:407:ARG:CA	2.31	0.44
3:R:448:THR:C	3:R:450:TRP:N	2.71	0.44

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:64:LEU:O	10:Y:6:ARG:HD2	2.17	0.44
8:W:21:SER:C	8:W:23:TRP:H	2.21	0.44
9:X:69:LEU:HD23	9:X:73:ILE:HG12	2.00	0.44
1:A:30:PRO:HD3	1:A:247:GLU:OE1	2.18	0.44
1:A:218:THR:HG22	1:A:218:THR:O	2.17	0.44
1:A:275:THR:HA	1:A:278:ASP:O	2.18	0.44
1:A:512:LYS:N	1:A:583:ASP:OD2	2.50	0.44
1:A:752:VAL:O	1:A:753:ARG:CB	2.65	0.44
1:A:761:TYR:HB2	1:A:764:ARG:HG3	2.00	0.44
1:A:770:LYS:CG	1:A:771:PRO:HD2	2.48	0.44
2:C:42:ILE:HD12	2:C:42:ILE:H	1.82	0.44
3:B:51:THR:HG21	3:B:370:GLU:OE1	2.16	0.44
3:B:618:ALA:C	3:B:620:GLU:N	2.71	0.44
3:B:735:GLU:HA	3:B:735:GLU:OE2	2.18	0.44
3:B:778:ALA:HB2	3:B:786:LYS:HE2	2.00	0.44
3:B:898:PRO:HA	3:B:971:TYR:O	2.17	0.44
3:B:988:VAL:HG13	3:B:989:TYR:N	2.33	0.44
4:D:55:ASP:O	4:D:59:ALA:HB2	2.18	0.44
4:D:78:TRP:HB3	4:D:79:PRO:HD2	2.00	0.44
5:E:36:GLU:OE2	6:F:34:LEU:HD11	2.18	0.44
8:K:12:ASP:O	8:K:13:LEU:CB	2.63	0.44
11:P:17:GLN:C	11:P:19:LYS:N	2.70	0.44
1:Q:19:ILE:HA	1:Q:22:MET:HE1	1.98	0.44
1:Q:47:PRO:CG	1:Q:48:ARG:HD3	2.46	0.44
1:Q:366:ILE:HD13	1:Q:395:LYS:HA	2.00	0.44
2:G:25:PRO:O	2:G:28:ILE:HA	2.18	0.44
2:G:130:TYR:CG	2:G:136:LYS:HG3	2.52	0.44
3:R:14:ILE:HG12	3:R:18:PHE:CE2	2.52	0.44
3:R:134:THR:O	3:R:137:LYS:N	2.50	0.44
3:R:235:ASP:C	3:R:237:ASP:H	2.21	0.44
3:R:799:SER:HB2	3:R:800:PRO:HD2	1.99	0.44
3:R:853:THR:OG1	11:Z:33:ILE:HD13	2.17	0.44
3:R:947:LYS:HG2	3:R:948:THR:OG1	2.17	0.44
3:R:1014:ARG:HH11	3:R:1014:ARG:CG	2.22	0.44
4:S:178:LYS:O	4:S:181:ASN:N	2.50	0.44
4:S:263:VAL:O	4:S:263:VAL:HG12	2.18	0.44
8:W:32:ILE:O	8:W:36:ILE:HG13	2.17	0.44
10:Y:20:SER:CA	10:Y:23:THR:HB	2.47	0.44
1:A:206:TRP:C	1:A:208:ILE:N	2.71	0.43
1:A:331:ASN:C	1:A:332:ILE:CD1	2.86	0.43
1:A:418:LEU:HD23	1:A:430:MET:HE1	2.00	0.43

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:598:PHE:O	1:A:599:ASP:HB3	2.18	0.43
1:A:713:ASP:O	1:A:717:LYS:HD2	2.18	0.43
1:A:782:ILE:HG21	1:A:790:LEU:HD13	2.00	0.43
2:C:298:SER:O	2:C:302:ALA:HB2	2.18	0.43
2:C:331:ARG:CD	2:C:348:GLU:HB3	2.45	0.43
2:C:365:GLU:CG	2:C:366:PHE:H	2.31	0.43
3:B:24:VAL:HG21	3:B:426:LEU:CD1	2.48	0.43
3:B:63:ILE:HA	3:B:98:LEU:H	1.83	0.43
3:B:84:GLU:O	3:B:88:ARG:N	2.45	0.43
3:B:227:MET:HE2	3:B:232:ILE:HG13	2.00	0.43
3:B:325:LEU:O	3:B:326:TYR:C	2.57	0.43
3:B:533:GLY:C	3:B:535:GLU:H	2.21	0.43
3:B:890:MET:HG2	3:B:892:ILE:HD11	2.00	0.43
3:B:978:LYS:HZ3	4:D:205:LEU:HD22	1.82	0.43
3:B:1062:ASP:N	3:B:1062:ASP:OD1	2.51	0.43
9:L:87:ILE:HG22	9:L:88:LYS:N	2.32	0.43
1:Q:219:ILE:HG22	3:R:1099:LEU:HD23	2.00	0.43
1:Q:558:LYS:HA	1:Q:590:ASN:O	2.17	0.43
1:Q:563:HIS:CE1	1:Q:876:VAL:HG13	2.51	0.43
1:Q:572:PRO:HG2	1:Q:573:ARG:CD	2.47	0.43
3:R:723:ILE:HD12	10:Y:43:TYR:CE1	2.48	0.43
3:R:1074:LYS:CB	3:R:1076:LYS:HG3	2.48	0.43
3:R:1108:ILE:HD12	3:R:1108:ILE:N	2.32	0.43
4:S:128:ILE:HG12	10:Y:16:ASP:HB3	2.00	0.43
4:S:204:THR:O	4:S:205:LEU:C	2.56	0.43
5:T:42:LEU:HD23	5:T:42:LEU:N	2.33	0.43
6:U:14:TYR:O	6:U:18:LYS:HE3	2.17	0.43
7:V:32:LEU:HD23	7:V:37:ILE:CD1	2.48	0.43
11:Z:31:TYR:HE2	11:Z:33:ILE:HG13	1.83	0.43
1:A:324:THR:CG2	1:A:325:VAL:H	2.26	0.43
1:A:574:LEU:CD2	1:A:575:CYS:N	2.80	0.43
1:A:821:ARG:HG2	1:A:821:ARG:NH1	2.32	0.43
1:A:870:ARG:NH1	2:C:58:GLU:HA	2.33	0.43
2:C:40:GLU:O	2:C:45:ARG:CG	2.65	0.43
3:B:39:LEU:O	3:B:43:ILE:HG12	2.16	0.43
3:B:191:SER:HB3	3:B:298:LEU:HA	1.99	0.43
3:B:228:ARG:NH1	3:B:262:ILE:O	2.51	0.43
3:B:249:GLN:O	3:B:250:ASN:C	2.56	0.43
3:B:339:ALA:HB1	3:B:619:GLU:HB2	2.00	0.43
3:B:393:ARG:NH2	3:B:403:TRP:HH2	2.13	0.43
3:B:441:GLU:O	3:B:441:GLU:HG2	2.18	0.43

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:469:ASN:N	3:B:469:ASN:ND2	2.66	0.43
3:B:536:LEU:CD2	3:B:540:ILE:HG13	2.49	0.43
3:B:580:ILE:HG12	3:B:642:ILE:HG12	2.00	0.43
3:B:617:ASP:O	3:B:618:ALA:HB2	2.18	0.43
3:B:627:ALA:O	3:B:628:LEU:C	2.56	0.43
4:D:44:VAL:HB	4:D:46:PHE:CE1	2.54	0.43
4:D:78:TRP:N	4:D:78:TRP:HD1	2.16	0.43
4:D:108:MET:HE1	10:N:2:LEU:CD2	2.48	0.43
5:E:18:PHE:HB2	8:K:48:PRO:HD2	2.00	0.43
5:E:29:GLU:OE1	5:E:29:GLU:HA	2.18	0.43
5:E:149:VAL:HG22	5:E:160:ILE:HA	1.99	0.43
1:Q:661:ILE:HD11	1:Q:714:ILE:HB	1.99	0.43
1:Q:782:ILE:HG21	1:Q:790:LEU:HD13	2.01	0.43
1:Q:823:LEU:HD13	2:G:75:ALA:O	2.17	0.43
3:R:128:ASP:OD1	3:R:130:ILE:N	2.51	0.43
3:R:290:GLN:HE21	3:R:308:ARG:HH12	1.66	0.43
3:R:303:THR:O	3:R:303:THR:HG22	2.18	0.43
3:R:356:VAL:HG11	3:R:404:VAL:HG13	2.00	0.43
3:R:482:GLU:OE2	3:R:525:ARG:NH1	2.51	0.43
3:R:602:ILE:HB	3:R:606:ASP:HB2	2.00	0.43
3:R:804:VAL:CG1	3:R:805:LYS:N	2.80	0.43
3:R:805:LYS:O	3:R:808:ASP:CG	2.56	0.43
6:U:71:ILE:O	6:U:71:ILE:HG22	2.18	0.43
8:W:82:LEU:HD12	8:W:84:ASN:HD22	1.83	0.43
11:Z:17:GLN:C	11:Z:19:LYS:N	2.71	0.43
1:A:23:SER:C	1:A:24:VAL:HG13	2.38	0.43
1:A:30:PRO:CB	1:A:244:ARG:HA	2.48	0.43
1:A:262:ILE:HG23	1:A:266:TRP:CD1	2.53	0.43
1:A:330:PRO:HG2	3:B:730:THR:O	2.19	0.43
1:A:334:ILE:HD11	1:A:628:MET:CB	2.43	0.43
1:A:449:VAL:O	1:A:449:VAL:HG12	2.17	0.43
1:A:515:LEU:HD11	1:A:539:ILE:HG13	2.00	0.43
1:A:532:ILE:O	1:A:533:ASP:C	2.57	0.43
1:A:638:PHE:CZ	1:A:642:GLN:HG3	2.52	0.43
1:A:864:LYS:HE2	7:H:71:LEU:O	2.18	0.43
2:C:85:MET:H	2:C:85:MET:HG3	1.65	0.43
2:C:106:ARG:O	2:C:109:GLU:N	2.52	0.43
3:B:70:VAL:CG1	3:B:80:ILE:HG21	2.48	0.43
3:B:279:GLY:H	3:B:285:ARG:HH22	1.66	0.43
3:B:412:GLN:NE2	3:B:425:HIS:CE1	2.87	0.43
3:B:654:ILE:H	3:B:654:ILE:CD1	2.27	0.43

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:669:GLN:HE21	3:B:669:GLN:CA	2.29	0.43
3:B:797:VAL:HG22	3:B:811:ILE:HG12	2.01	0.43
3:B:869:LEU:HD21	4:D:56:GLU:HB2	1.99	0.43
3:B:963:LEU:HA	3:B:964:PRO:HD3	1.81	0.43
4:D:141:LEU:C	4:D:141:LEU:HD12	2.38	0.43
4:D:148:GLY:HA2	4:D:152:GLU:OE1	2.19	0.43
4:D:159:VAL:CG2	4:D:160:SER:N	2.81	0.43
5:E:164:MET:HA	5:E:169:LEU:HB3	1.99	0.43
7:H:20:HIS:CD2	7:H:20:HIS:N	2.86	0.43
8:K:61:VAL:CG1	8:K:62:ILE:N	2.80	0.43
1:Q:79:ARG:HD2	1:Q:266:TRP:CE3	2.53	0.43
1:Q:206:TRP:CZ3	1:Q:209:LEU:HD23	2.53	0.43
1:Q:316:LYS:HE2	3:R:1094:SER:OG	2.17	0.43
1:Q:491:TYR:HD2	2:G:308:VAL:HA	1.83	0.43
1:Q:635:PHE:O	1:Q:639:VAL:HG23	2.19	0.43
1:Q:759:ARG:HH21	1:Q:763:THR:HG23	1.83	0.43
1:Q:832:ALA:CB	2:G:66:PRO:HB2	2.48	0.43
2:G:42:ILE:CD1	2:G:42:ILE:N	2.81	0.43
3:R:34:PHE:HD1	3:R:351:ALA:HB2	1.83	0.43
3:R:81:SER:HB3	3:R:84:GLU:CG	2.46	0.43
3:R:749:MET:CE	3:R:907:ASP:HB3	2.48	0.43
5:T:149:VAL:HG13	5:T:159:ARG:C	2.38	0.43
5:T:179:LYS:HZ1	6:U:82:GLU:HG3	1.83	0.43
9:X:25:GLY:O	9:X:43:TYR:CG	2.71	0.43
1:A:238:LYS:NZ	1:A:276:TYR:CA	2.66	0.43
1:A:258:PRO:HB2	1:A:261:ILE:HD12	2.00	0.43
1:A:572:PRO:HG2	1:A:573:ARG:CD	2.47	0.43
1:A:620:SER:C	1:A:622:GLU:N	2.72	0.43
1:A:758:LYS:HB2	1:A:759:ARG:HD2	1.99	0.43
2:C:37:LEU:C	2:C:39:LYS:H	2.21	0.43
2:C:103:GLY:CA	2:C:300:VAL:HG13	2.47	0.43
3:B:214:PHE:CE2	3:B:296:TYR:O	2.71	0.43
3:B:727:MET:CE	3:B:898:PRO:CG	2.94	0.43
3:B:958:LEU:C	3:B:958:LEU:CD2	2.87	0.43
4:D:68:MET:CE	4:D:68:MET:HA	2.49	0.43
4:D:205:LEU:O	4:D:206:CYS:C	2.54	0.43
6:F:25:ILE:HA	6:F:28:GLY:O	2.18	0.43
6:F:33:LEU:O	6:F:34:LEU:HD23	2.18	0.43
1:Q:557:PRO:HD3	1:Q:623:TYR:OH	2.18	0.43
1:Q:573:ARG:O	1:Q:574:LEU:C	2.56	0.43
1:Q:606:GLN:HE21	1:Q:608:PRO:HG2	1.82	0.43

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:830:LEU:CD1	1:Q:846:VAL:HG21	2.48	0.43
1:Q:851:GLY:O	1:Q:853:ASP:N	2.50	0.43
2:G:285:GLY:H	7:V:50:PRO:HG3	1.83	0.43
3:R:5:LEU:N	3:R:5:LEU:CD1	2.82	0.43
3:R:246:PRO:O	3:R:248:VAL:N	2.37	0.43
3:R:249:GLN:C	3:R:253:PHE:CE1	2.92	0.43
3:R:291:GLN:C	3:R:293:ILE:N	2.71	0.43
3:R:291:GLN:O	3:R:293:ILE:N	2.50	0.43
3:R:343:LEU:HD11	3:R:575:VAL:HG23	2.01	0.43
3:R:429:VAL:CG1	3:R:453:MET:HE1	2.48	0.43
3:R:569:ASN:HB3	3:R:574:ARG:NH1	2.33	0.43
3:R:707:ALA:O	3:R:709:ASP:N	2.52	0.43
3:R:790:ARG:C	3:R:792:LEU:H	2.22	0.43
3:R:1100:LEU:O	3:R:1101:ILE:C	2.57	0.43
4:S:5:LEU:HD11	9:X:90:LEU:O	2.18	0.43
4:S:52:PRO:O	4:S:53:LEU:HD23	2.18	0.43
4:S:148:GLY:HA2	4:S:152:GLU:OE1	2.18	0.43
5:T:14:PRO:HA	5:T:15:PRO:HD3	1.90	0.43
10:Y:3:ILE:HG22	10:Y:4:PRO:CD	2.48	0.43
1:A:364:PHE:HE1	1:A:409:ARG:HD2	1.80	0.43
1:A:377:TYR:O	1:A:408:GLU:HB2	2.19	0.43
1:A:417:VAL:CG1	1:A:464:LEU:CD1	2.96	0.43
1:A:524:ILE:O	1:A:525:LEU:CD2	2.66	0.43
1:A:558:LYS:HD2	3:R:104:GLU:HB2	2.00	0.43
1:A:697:GLU:O	1:A:700:ILE:N	2.51	0.43
1:A:872:PHE:CD1	1:A:876:VAL:HG21	2.53	0.43
2:C:271:LYS:O	2:C:272:VAL:C	2.57	0.43
2:C:359:ALA:C	2:C:361:GLY:N	2.72	0.43
3:B:5:LEU:HB2	3:B:630:PRO:HG3	2.00	0.43
3:B:70:VAL:CG1	3:B:90:LEU:HD23	2.47	0.43
3:B:316:ALA:C	3:B:318:ALA:N	2.71	0.43
3:B:343:LEU:HD11	3:B:575:VAL:HG23	2.01	0.43
3:B:345:LEU:N	3:B:345:LEU:CD1	2.82	0.43
3:B:373:LYS:CG	3:B:375:ARG:HB2	2.48	0.43
3:B:589:VAL:O	3:B:592:GLU:N	2.46	0.43
3:B:790:ARG:C	3:B:792:LEU:H	2.21	0.43
3:B:899:TYR:CE2	4:D:29:ARG:CZ	3.02	0.43
5:E:23:ASN:HA	5:E:26:ALA:HB3	2.00	0.43
5:E:51:VAL:C	5:E:53:THR:H	2.20	0.43
5:E:114:THR:CG2	5:E:115:ASP:N	2.81	0.43
7:H:32:LEU:HD23	7:H:37:ILE:CD1	2.48	0.43

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:K:28:THR:O	8:K:30:TYR:N	2.52	0.43
8:K:41:LEU:O	8:K:42:GLN:C	2.55	0.43
1:Q:245:ILE:O	1:Q:245:ILE:HG22	2.18	0.43
1:Q:550:GLN:O	1:Q:553:SER:HB3	2.19	0.43
1:Q:651:VAL:CG2	1:Q:743:MET:HB3	2.48	0.43
2:G:134:ARG:O	2:G:138:LEU:HB2	2.18	0.43
2:G:286:ILE:HG13	7:V:49:ASP:CG	2.39	0.43
3:R:687:ARG:HH11	3:R:687:ARG:HG3	1.83	0.43
3:R:700:ARG:HB3	10:Y:51:SER:HA	2.00	0.43
3:R:972:ASP:OD2	3:R:974:ARG:CG	2.66	0.43
4:S:69:SER:CA	4:S:72:ALA:HB3	2.45	0.43
5:T:1:MET:CE	6:U:11:TYR:HD2	2.31	0.43
5:T:18:PHE:HB2	8:W:47:ALA:HA	2.01	0.43
6:U:54:LYS:HA	6:U:57:GLU:OE1	2.19	0.43
6:U:59:LEU:CD1	6:U:69:ARG:HG2	2.47	0.43
7:V:45:ILE:HG22	7:V:81:VAL:N	2.33	0.43
10:Y:3:ILE:HG22	10:Y:4:PRO:HD2	1.99	0.43
1:A:72:PHE:CD2	1:A:72:PHE:N	2.86	0.43
1:A:195:LEU:N	1:A:195:LEU:HD12	2.34	0.43
1:A:325:VAL:CG2	1:A:442:THR:HG22	2.49	0.43
1:A:394:ARG:O	1:A:395:LYS:C	2.57	0.43
1:A:761:TYR:O	3:B:622:GLU:OE1	2.36	0.43
2:C:130:TYR:CD1	2:C:136:LYS:HE3	2.53	0.43
2:C:240:ALA:HB1	2:C:251:ILE:HG23	2.01	0.43
2:C:390:MET:SD	5:E:57:GLY:C	2.96	0.43
2:C:391:ARG:HH21	8:K:42:GLN:HG2	1.82	0.43
3:B:89:ASN:ND2	3:B:863:LYS:NZ	2.63	0.43
3:B:191:SER:OG	3:B:299:PRO:HD2	2.18	0.43
3:B:270:ASP:C	3:B:272:ILE:N	2.71	0.43
3:B:535:GLU:O	3:B:536:LEU:C	2.57	0.43
3:B:691:ARG:HB3	3:B:754:PHE:HZ	1.82	0.43
3:B:903:GLY:H	4:D:163:VAL:HG22	1.84	0.43
3:B:1041:THR:OG1	3:B:1044:LEU:CB	2.67	0.43
3:B:1088:LEU:C	3:B:1089:PHE:HD2	2.22	0.43
4:D:93:TYR:CE1	4:D:144:ARG:NH2	2.86	0.43
4:D:217:ILE:N	4:D:217:ILE:CD1	2.78	0.43
6:F:30:SER:HB2	6:F:34:LEU:CB	2.49	0.43
9:L:43:TYR:O	9:L:44:TYR:HB3	2.17	0.43
1:Q:92:GLU:O	1:Q:95:LYS:HB2	2.18	0.43
1:Q:353:ILE:CG1	1:Q:361:LEU:HD23	2.44	0.43
1:Q:770:LYS:CG	1:Q:771:PRO:HD2	2.49	0.43

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:837:THR:HG23	1:Q:847:GLN:O	2.18	0.43
2:G:103:GLY:O	2:G:104:LEU:CB	2.65	0.43
2:G:250:ILE:CG2	2:G:251:ILE:H	2.29	0.43
2:G:322:ARG:HA	7:V:43:PRO:O	2.18	0.43
3:R:28:LEU:C	3:R:30:SER:N	2.72	0.43
3:R:433:LEU:HD12	3:R:435:ARG:HH12	1.83	0.43
3:R:474:ALA:CB	3:R:578:PRO:HD3	2.49	0.43
3:R:533:GLY:C	3:R:535:GLU:H	2.22	0.43
3:R:591:ILE:O	3:R:594:ILE:HG13	2.19	0.43
3:R:733:ASN:HB3	3:R:739:ILE:HG22	2.01	0.43
3:R:838:VAL:CG1	3:R:839:THR:N	2.82	0.43
3:R:852:ILE:HD12	3:R:852:ILE:N	2.33	0.43
3:R:911:ASN:ND2	3:R:913:HIS:H	2.16	0.43
6:U:30:SER:OG	6:U:38:TYR:HE1	1.98	0.43
8:W:50:LEU:HD23	8:W:74:LEU:HA	2.01	0.43
1:A:272:HIS:O	1:A:275:THR:HB	2.18	0.43
1:A:313:LEU:HD12	1:A:313:LEU:HA	1.86	0.43
1:A:481:LEU:HD23	1:A:482:VAL:N	2.28	0.43
1:A:761:TYR:HB3	1:A:764:ARG:HG3	2.00	0.43
1:A:827:LEU:HD12	1:A:830:LEU:HD12	1.99	0.43
1:A:864:LYS:O	1:A:864:LYS:CG	2.58	0.43
2:C:382:GLY:C	2:C:384:GLY:N	2.72	0.43
3:B:369:LEU:HA	3:B:369:LEU:HD23	1.84	0.43
3:B:416:ARG:CZ	3:B:687:ARG:NH2	2.82	0.43
3:B:479:GLY:CA	3:B:552:GLU:HB3	2.30	0.43
3:B:490:TYR:CE1	3:B:527:ILE:CG2	2.99	0.43
3:B:595:GLU:CA	3:B:599:SER:HB3	2.49	0.43
3:B:691:ARG:CZ	3:B:756:ARG:HH21	2.32	0.43
3:B:708:LEU:O	3:B:708:LEU:CD1	2.61	0.43
3:B:952:GLN:O	3:B:955:ASN:N	2.52	0.43
3:B:1062:ASP:OD1	3:B:1087:ASN:O	2.37	0.43
4:D:52:PRO:O	4:D:53:LEU:HD23	2.18	0.43
4:D:61:ARG:HG2	4:D:61:ARG:HH11	1.83	0.43
5:E:27:LEU:HD23	5:E:28:ASN:N	2.34	0.43
6:F:21:LEU:HA	6:F:24:VAL:HG23	2.01	0.43
8:K:74:LEU:HA	8:K:75:PRO:HD3	1.81	0.43
1:Q:7:LYS:HD3	3:R:1116:GLU:CD	2.39	0.43
1:Q:238:LYS:HD3	1:Q:276:TYR:CA	2.46	0.43
1:Q:294:PRO:O	1:Q:295:LEU:O	2.37	0.43
1:Q:522:GLN:HG2	9:X:40:PHE:CD1	2.53	0.43
2:G:359:ALA:C	2:G:361:GLY:N	2.71	0.43

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:62:LYS:C	3:R:63:ILE:HD12	2.38	0.43
3:R:393:ARG:NH2	3:R:403:TRP:HH2	2.15	0.43
3:R:543:ARG:NH2	3:R:548:GLU:OE2	2.49	0.43
3:R:779:GLY:O	3:R:780:VAL:HG22	2.19	0.43
3:R:892:ILE:CG2	3:R:897:MET:HE2	2.48	0.43
3:R:932:TYR:HB2	3:R:957:ILE:HG23	2.00	0.43
3:R:988:VAL:HG13	3:R:989:TYR:N	2.33	0.43
4:S:205:LEU:O	4:S:206:CYS:C	2.57	0.43
5:T:93:ASP:CG	5:T:94:ASN:N	2.71	0.43
7:V:20:HIS:CD2	7:V:20:HIS:N	2.86	0.43
9:X:80:THR:O	9:X:83:TYR:HB3	2.18	0.43
1:A:72:PHE:N	1:A:72:PHE:HD2	2.17	0.43
1:A:193:GLU:C	1:A:195:LEU:N	2.71	0.43
1:A:218:THR:HG21	3:B:1098:LYS:HZ1	1.83	0.43
1:A:233:ASP:O	1:A:236:THR:HB	2.18	0.43
1:A:247:GLU:O	1:A:251:GLU:HG3	2.19	0.43
1:A:467:PRO:HA	3:B:1047:ASP:OD1	2.19	0.43
1:A:573:ARG:O	1:A:574:LEU:C	2.57	0.43
1:A:606:GLN:NE2	1:A:608:PRO:HG2	2.33	0.43
1:A:748:GLY:HA2	1:A:781:PHE:CE2	2.54	0.43
2:C:25:PRO:HG3	2:C:33:LYS:NZ	2.34	0.43
2:C:322:ARG:N	2:C:322:ARG:CD	2.78	0.43
2:C:379:ILE:CD1	3:B:1045:LEU:HD22	2.49	0.43
3:B:358:PHE:O	3:B:360:ALA:N	2.52	0.43
3:B:433:LEU:HD12	3:B:435:ARG:HH12	1.84	0.43
3:B:591:ILE:CG1	3:B:612:LYS:HZ3	2.32	0.43
3:B:813:LYS:HE2	3:B:835:THR:HG21	2.01	0.43
4:D:44:VAL:HB	4:D:46:PHE:HE1	1.82	0.43
4:D:217:ILE:O	4:D:219:ILE:HG13	2.19	0.43
5:E:63:ASP:OD2	5:E:65:ALA:CB	2.66	0.43
8:K:54:ASN:ND2	8:K:58:SER:HB2	2.34	0.43
9:L:8:SER:HB2	9:L:13:LEU:HD13	2.00	0.43
10:N:43:TYR:CD1	10:N:44:CYS:N	2.87	0.43
11:P:26:CYS:CB	11:P:27:PRO:CD	2.93	0.43
1:Q:79:ARG:CB	1:Q:266:TRP:CE3	2.88	0.43
1:Q:193:GLU:C	1:Q:195:LEU:H	2.22	0.43
1:Q:697:GLU:OE1	1:Q:756:ARG:CD	2.65	0.43
1:Q:870:ARG:NH1	2:G:58:GLU:HA	2.34	0.43
1:Q:874:ARG:HD3	1:Q:874:ARG:HA	1.72	0.43
2:G:146:TYR:N	2:G:146:TYR:CD1	2.72	0.43
2:G:354:LEU:HD13	3:R:1104:LEU:CD2	2.48	0.43

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:304:SER:O	3:R:305:ALA:C	2.56	0.43
3:R:381:LEU:O	3:R:385:VAL:HG23	2.19	0.43
3:R:789:TYR:HA	3:R:792:LEU:HD12	2.01	0.43
3:R:915:LEU:HB3	3:R:916:PRO:CD	2.48	0.43
3:R:1020:ARG:O	3:R:1021:ALA:C	2.56	0.43
3:R:1099:LEU:O	3:R:1102:GLN:HB2	2.19	0.43
4:S:182:VAL:HG23	4:S:183:CYS:N	2.34	0.43
5:T:38:ILE:CG2	5:T:39:LEU:H	2.17	0.43
6:U:88:VAL:HG12	6:U:89:MET:N	2.32	0.43
8:W:35:VAL:C	8:W:37:SER:N	2.72	0.43
1:A:47:PRO:HG2	1:A:48:ARG:N	2.32	0.43
1:A:61:CYS:HB3	1:A:63:ASN:ND2	2.33	0.43
1:A:212:LEU:HD21	1:A:242:ILE:HD13	2.00	0.43
1:A:302:LEU:HD12	1:A:302:LEU:O	2.19	0.43
1:A:381:PRO:HB3	1:A:404:GLY:O	2.19	0.43
1:A:694:GLU:O	1:A:697:GLU:HB2	2.19	0.43
1:A:782:ILE:HG22	1:A:784:SER:H	1.82	0.43
2:C:318:ASP:OD2	2:C:322:ARG:NH1	2.51	0.43
3:B:51:THR:O	3:B:51:THR:HG22	2.17	0.43
3:B:430:ILE:HG22	3:B:431:SER:N	2.33	0.43
3:B:536:LEU:O	3:B:537:ALA:C	2.57	0.43
3:B:679:LEU:HD23	3:B:716:ARG:CG	2.49	0.43
3:B:1081:ILE:CG2	3:B:1085:LYS:NZ	2.82	0.43
4:D:98:ILE:HD11	4:D:114:ILE:HG12	2.00	0.43
5:E:3:LYS:HE2	6:F:9:GLU:OE2	2.19	0.43
5:E:23:ASN:O	5:E:24:GLU:C	2.58	0.43
5:E:38:ILE:CG2	5:E:39:LEU:H	2.20	0.43
7:H:58:LYS:HA	7:H:59:PRO:HD3	1.87	0.43
10:N:21:PHE:CE2	10:N:49:LEU:HD13	2.54	0.43
1:Q:747:LEU:HD12	1:Q:782:ILE:HG12	2.01	0.43
1:Q:825:ASN:O	1:Q:827:LEU:N	2.51	0.43
2:G:82:GLY:C	2:G:84:GLN:H	2.22	0.43
3:R:50:PRO:HG2	3:R:51:THR:N	2.25	0.43
3:R:191:SER:HB3	3:R:298:LEU:HA	2.01	0.43
3:R:395:ARG:O	3:R:399:ALA:CB	2.67	0.43
3:R:428:ARG:HG2	3:R:469:ASN:ND2	2.34	0.43
3:R:463:ASN:HB3	3:R:467:VAL:CG1	2.49	0.43
3:R:658:PRO:C	3:R:660:HIS:N	2.71	0.43
3:R:790:ARG:HG3	3:R:791:LEU:N	2.34	0.43
4:S:228:LEU:CD1	4:S:230:ILE:HD11	2.44	0.43
5:T:21:PRO:HG2	5:T:24:GLU:OE2	2.19	0.43

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:T:23:ASN:O	5:T:24:GLU:C	2.57	0.43
5:T:100:ASN:ND2	6:U:36:ARG:HD3	2.32	0.43
5:T:104:MET:HE1	5:T:158:PRO:O	2.19	0.43
6:U:31:SER:O	6:U:35:GLN:HG3	2.19	0.43
6:U:79:THR:C	6:U:81:ASP:H	2.22	0.43
8:W:12:ASP:O	8:W:13:LEU:CB	2.63	0.43
10:Y:14:ILE:HG22	10:Y:49:LEU:HD21	2.01	0.43
10:Y:60:ILE:HG13	10:Y:61:HIS:N	2.34	0.43
1:A:84:VAL:HG11	1:A:281:ILE:HD12	2.01	0.43
1:A:245:ILE:O	1:A:245:ILE:HG22	2.18	0.43
1:A:334:ILE:HG23	1:A:449:VAL:CG2	2.48	0.43
1:A:425:LEU:O	1:A:425:LEU:HD13	2.19	0.43
1:A:506:ALA:HB1	1:A:598:PHE:CB	2.49	0.43
1:A:782:ILE:HG12	1:A:790:LEU:HD11	2.00	0.43
1:A:791:LYS:H	1:A:794:GLU:HB2	1.84	0.43
1:A:856:PHE:HB3	1:A:859:TYR:CE1	2.54	0.43
3:B:9:GLU:HA	3:B:592:GLU:OE1	2.19	0.43
3:B:31:TYR:O	3:B:34:PHE:HB3	2.19	0.43
3:B:50:PRO:HB3	3:B:57:LYS:HG2	2.00	0.43
3:B:276:VAL:CG1	3:B:277:ALA:H	2.19	0.43
3:B:529:TYR:N	3:B:529:TYR:CD1	2.87	0.43
3:B:569:ASN:HB3	3:B:574:ARG:NH1	2.34	0.43
3:B:586:ASN:HA	3:B:587:PRO:HD3	1.75	0.43
3:B:749:MET:CE	3:B:907:ASP:HB3	2.47	0.43
3:B:771:ASP:OD1	3:B:816:PRO:HG3	2.19	0.43
3:B:774:VAL:O	3:B:775:MET:C	2.57	0.43
4:D:182:VAL:HG23	4:D:183:CYS:N	2.34	0.43
5:E:88:GLU:H	5:E:99:VAL:HG12	1.81	0.43
8:K:82:LEU:HD23	8:K:82:LEU:N	2.30	0.43
10:N:3:ILE:HG22	10:N:4:PRO:HD2	1.99	0.43
1:Q:242:ILE:HD11	1:Q:273:VAL:HA	2.00	0.43
1:Q:364:PHE:CE2	1:Q:373:PRO:HB3	2.53	0.43
1:Q:420:ASN:HD22	1:Q:421:ARG:N	2.16	0.43
1:Q:481:LEU:CD2	1:Q:482:VAL:N	2.81	0.43
1:Q:827:LEU:CG	2:G:75:ALA:HB2	2.46	0.43
1:Q:839:ARG:NH1	7:V:37:ILE:HG23	2.34	0.43
2:G:85:MET:H	2:G:85:MET:HG3	1.68	0.43
2:G:132:ARG:H	2:G:132:ARG:CD	2.32	0.43
2:G:271:LYS:O	2:G:272:VAL:C	2.57	0.43
3:R:83:MET:CE	3:R:686:LEU:HB2	2.49	0.43
3:R:214:PHE:CE2	3:R:296:TYR:O	2.72	0.43

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:301:LEU:CD2	3:R:483:ARG:HH21	2.24	0.43
3:R:345:LEU:HD12	3:R:345:LEU:N	2.34	0.43
3:R:459:PRO:HD2	3:R:467:VAL:HG13	2.01	0.43
3:R:805:LYS:O	3:R:806:GLY:O	2.37	0.43
3:R:890:MET:HG3	3:R:891:LEU:N	2.34	0.43
3:R:921:LEU:C	3:R:923:GLN:N	2.72	0.43
3:R:958:LEU:HD23	3:R:958:LEU:O	2.18	0.43
4:S:133:LEU:HD11	4:S:139:ILE:HG12	2.00	0.43
4:S:175:ASN:C	4:S:195:LEU:HD21	2.39	0.43
4:S:217:ILE:O	4:S:219:ILE:HG13	2.18	0.43
8:W:28:THR:O	8:W:29:ARG:C	2.57	0.43
10:Y:21:PHE:HE2	10:Y:35:LEU:CD2	2.30	0.43
11:Z:20:VAL:HG23	11:Z:20:VAL:O	2.19	0.43
1:A:79:ARG:HD2	1:A:266:TRP:CE3	2.53	0.42
1:A:297:THR:O	1:A:300:GLN:N	2.52	0.42
1:A:343:ILE:HD11	3:B:1001:LEU:HG	2.01	0.42
1:A:345:LYS:O	1:A:346:THR:C	2.56	0.42
1:A:364:PHE:CE2	1:A:373:PRO:HB3	2.54	0.42
1:A:417:VAL:HG11	1:A:464:LEU:HD11	2.00	0.42
1:A:675:LEU:HD23	1:A:684:LEU:HD11	2.01	0.42
3:B:87:LEU:HD22	3:B:851:LEU:CD1	2.48	0.42
3:B:321:LYS:HE3	3:B:321:LYS:HB3	1.81	0.42
3:B:559:VAL:O	3:B:563:ILE:O	2.37	0.42
3:B:672:MET:HE2	3:B:885:LYS:HD3	2.00	0.42
3:B:697:TYR:CD1	10:N:4:PRO:HG3	2.54	0.42
3:B:1073:ASN:O	3:B:1074:LYS:HB2	2.19	0.42
5:E:147:ILE:CD1	5:E:163:THR:HB	2.49	0.42
6:F:52:ALA:C	6:F:54:LYS:N	2.72	0.42
8:K:26:ARG:HG2	8:K:90:LEU:CD1	2.49	0.42
9:L:47:HIS:O	9:L:48:PRO:C	2.57	0.42
9:L:87:ILE:O	9:L:91:THR:HG23	2.19	0.42
10:N:3:ILE:HA	10:N:52:HIS:NE2	2.33	0.42
1:Q:220:ARG:NH1	1:Q:236:THR:HG23	2.34	0.42
1:Q:294:PRO:O	1:Q:295:LEU:C	2.56	0.42
1:Q:377:TYR:HE1	1:Q:385:ARG:CG	2.32	0.42
2:G:140:VAL:O	2:G:144:LEU:HG	2.18	0.42
2:G:336:GLY:C	2:G:337:GLU:OE1	2.57	0.42
2:G:379:ILE:HD12	3:R:1045:LEU:CD2	2.48	0.42
2:G:390:MET:CG	5:T:56:GLU:HG2	2.49	0.42
3:R:679:LEU:HD23	3:R:716:ARG:CD	2.49	0.42
3:R:708:LEU:O	3:R:708:LEU:CD1	2.65	0.42

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:932:TYR:O	3:R:933:ALA:CB	2.66	0.42
3:R:1081:ILE:CG2	3:R:1085:LYS:NZ	2.80	0.42
11:Z:13:PHE:CD1	11:Z:13:PHE:N	2.87	0.42
1:A:206:TRP:CZ3	3:B:1108:ILE:HG21	2.54	0.42
1:A:283:GLY:C	1:A:285:PRO:CD	2.79	0.42
1:A:377:TYR:HE1	1:A:385:ARG:CG	2.30	0.42
1:A:651:VAL:HG21	1:A:743:MET:HB3	2.01	0.42
2:C:15:GLU:HA	2:C:18:LYS:HG3	2.00	0.42
2:C:267:VAL:O	2:C:267:VAL:HG12	2.19	0.42
2:C:297:ILE:C	2:C:299:LYS:N	2.72	0.42
3:B:287:GLU:C	3:B:289:ALA:N	2.70	0.42
3:B:838:VAL:CG1	3:B:839:THR:H	2.31	0.42
4:D:66:PRO:HG2	10:N:13:LEU:HD11	2.01	0.42
4:D:176:CYS:H	4:D:195:LEU:CD2	2.31	0.42
6:F:54:LYS:HA	6:F:57:GLU:OE1	2.19	0.42
6:F:79:THR:C	6:F:81:ASP:H	2.22	0.42
7:H:62:ILE:H	7:H:62:ILE:CD1	2.31	0.42
8:K:49:ALA:O	8:K:50:LEU:C	2.57	0.42
8:K:50:LEU:HD23	8:K:74:LEU:HA	2.00	0.42
1:Q:737:VAL:HG23	1:Q:738:LEU:N	2.34	0.42
1:Q:759:ARG:HH21	1:Q:763:THR:HA	1.85	0.42
3:R:39:LEU:O	3:R:43:ILE:HG12	2.19	0.42
3:R:50:PRO:CG	3:R:51:THR:N	2.81	0.42
3:R:134:THR:N	3:R:137:LYS:HB2	2.34	0.42
3:R:243:SER:O	3:R:249:GLN:OE1	2.37	0.42
3:R:253:PHE:HA	3:R:256:LEU:CD1	2.49	0.42
3:R:530:TYR:OH	3:R:536:LEU:CG	2.67	0.42
3:R:580:ILE:HG12	3:R:642:ILE:HG12	2.00	0.42
3:R:882:HIS:HE1	3:R:926:GLU:OE1	2.02	0.42
3:R:895:VAL:CG1	4:S:34:LEU:HD21	2.47	0.42
3:R:899:TYR:O	3:R:971:TYR:N	2.42	0.42
3:R:958:LEU:C	3:R:958:LEU:CD2	2.88	0.42
3:R:1105:MET:HG3	3:R:1111:PRO:HG3	2.01	0.42
4:S:250:ILE:H	4:S:250:ILE:HG13	1.43	0.42
5:T:97:ILE:HD11	5:T:136:ILE:HG21	2.01	0.42
8:W:31:GLU:O	8:W:35:VAL:HG13	2.20	0.42
9:X:45:GLN:HE22	9:X:48:PRO:N	2.16	0.42
1:A:25:THR:HG22	1:A:26:ALA:N	2.35	0.42
1:A:249:LEU:HD21	1:A:265:LEU:HB3	2.02	0.42
1:A:737:VAL:HG23	1:A:738:LEU:N	2.34	0.42
2:C:60:SER:OG	2:C:61:GLU:N	2.51	0.42

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:117:PRO:HD2	2:C:120:PRO:HG3	2.00	0.42
3:B:21:LYS:CA	3:B:25:ARG:NH1	2.82	0.42
3:B:97:TRP:CZ3	3:B:113:GLU:HB3	2.54	0.42
3:B:243:SER:OG	3:B:246:PRO:HG3	2.18	0.42
3:B:789:TYR:HB2	3:B:790:ARG:H	1.74	0.42
3:B:899:TYR:HE2	4:D:29:ARG:CZ	2.32	0.42
4:D:39:MET:HG2	4:D:121:VAL:HG11	2.01	0.42
4:D:48:GLU:HB3	4:D:140:SER:CB	2.49	0.42
4:D:79:PRO:HG2	4:D:149:TYR:CE1	2.54	0.42
4:D:165:ARG:HG2	4:D:165:ARG:HH11	1.83	0.42
4:D:167:TYR:HB3	4:D:222:VAL:HB	2.01	0.42
7:H:49:ASP:CG	7:H:50:PRO:HD2	2.39	0.42
8:K:90:LEU:H	8:K:90:LEU:CD2	2.25	0.42
1:Q:670:VAL:CG2	1:Q:671:GLU:N	2.82	0.42
1:Q:675:LEU:HD23	1:Q:684:LEU:HD11	2.01	0.42
3:R:5:LEU:HG	3:R:630:PRO:HB2	2.00	0.42
3:R:98:LEU:HD22	3:R:99:THR:N	2.33	0.42
3:R:234:THR:HB	3:R:237:ASP:OD2	2.19	0.42
3:R:234:THR:CG2	3:R:236:ARG:HB2	2.49	0.42
3:R:325:LEU:HD13	3:R:331:GLU:H	1.84	0.42
3:R:381:LEU:C	3:R:383:ALA:H	2.21	0.42
3:R:435:ARG:C	3:R:437:GLN:H	2.23	0.42
3:R:536:LEU:O	3:R:539:LYS:HB2	2.19	0.42
3:R:705:THR:CG2	3:R:706:ARG:H	2.06	0.42
3:R:957:ILE:H	3:R:957:ILE:HG12	1.46	0.42
3:R:1059:TYR:HA	3:R:1089:PHE:O	2.20	0.42
3:R:1105:MET:HG2	3:R:1111:PRO:CD	2.50	0.42
4:S:123:PRO:C	4:S:125:SER:H	2.23	0.42
4:S:131:VAL:HA	10:Y:2:LEU:HD11	2.01	0.42
5:T:31:ARG:HG2	5:T:35:GLN:OE1	2.19	0.42
5:T:134:LYS:HD3	5:T:174:TRP:CD1	2.53	0.42
1:A:268:LEU:HD23	1:A:268:LEU:HA	1.94	0.42
1:A:488:THR:HG23	1:A:490:ARG:H	1.84	0.42
1:A:523:GLN:O	1:A:525:LEU:N	2.53	0.42
1:A:638:PHE:CD1	1:A:641:LEU:HD11	2.54	0.42
1:A:649:GLU:HG3	3:B:965:ASP:OD2	2.19	0.42
2:C:65:ALA:HB2	8:K:19:PHE:HE1	1.84	0.42
2:C:115:LYS:O	2:C:116:VAL:CG1	2.54	0.42
2:C:390:MET:O	2:C:391:ARG:CD	2.66	0.42
3:B:128:ASP:OD1	3:B:130:ILE:CG1	2.67	0.42
3:B:269:LEU:HD13	3:B:290:GLN:HG3	2.01	0.42

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:381:LEU:C	3:B:383:ALA:H	2.22	0.42
3:B:435:ARG:C	3:B:437:GLN:H	2.21	0.42
3:B:574:ARG:O	3:B:574:ARG:HG3	2.19	0.42
3:B:640:LEU:HD22	3:B:641:GLU:O	2.19	0.42
3:B:744:SER:HB3	10:N:8:PHE:HB3	2.01	0.42
3:B:963:LEU:HD22	3:B:982:ARG:NH2	2.34	0.42
4:D:108:MET:CG	4:D:110:TYR:CE1	3.03	0.42
4:D:178:LYS:HA	4:D:181:ASN:ND2	2.34	0.42
5:E:46:LEU:O	5:E:47:ALA:HB2	2.18	0.42
5:E:92:VAL:CG1	5:E:127:ILE:HG12	2.49	0.42
5:E:134:LYS:HD3	5:E:174:TRP:CD1	2.55	0.42
7:H:54:SER:O	7:H:56:ASN:N	2.52	0.42
9:L:66:LYS:O	9:L:70:LEU:CD1	2.67	0.42
9:L:74:GLU:O	9:L:77:ARG:HB3	2.20	0.42
1:Q:272:HIS:O	1:Q:275:THR:HB	2.18	0.42
1:Q:427:ARG:NH1	2:G:73:VAL:HG11	2.34	0.42
1:Q:525:LEU:HG	9:X:40:PHE:CZ	2.52	0.42
1:Q:527:VAL:HG11	1:Q:530:VAL:HB	1.99	0.42
1:Q:759:ARG:HE	1:Q:759:ARG:HB3	1.56	0.42
1:Q:782:ILE:HG23	1:Q:794:GLU:CD	2.39	0.42
3:R:339:ALA:HB1	3:R:619:GLU:HB2	2.00	0.42
3:R:369:LEU:HG	3:R:384:LEU:HD13	2.01	0.42
3:R:451:GLY:N	3:R:647:ILE:HG23	2.22	0.42
3:R:657:TYR:N	3:R:658:PRO:CD	2.83	0.42
3:R:943:THR:CG2	3:R:944:PRO:CD	2.94	0.42
3:R:1071:ASP:O	3:R:1073:ASN:N	2.46	0.42
4:S:53:LEU:HD22	4:S:57:ILE:CG2	2.40	0.42
5:T:51:VAL:C	5:T:53:THR:H	2.23	0.42
5:T:142:VAL:CG1	5:T:171:LYS:HA	2.43	0.42
8:W:41:LEU:O	8:W:42:GLN:C	2.57	0.42
9:X:7:LYS:HE3	9:X:12:TYR:CE2	2.53	0.42
9:X:47:HIS:NE2	9:X:49:LEU:HB2	2.34	0.42
1:A:13:ILE:HD12	1:A:207:MET:HG2	2.01	0.42
1:A:30:PRO:HB2	1:A:244:ARG:CG	2.48	0.42
1:A:212:LEU:HD21	1:A:242:ILE:CD1	2.49	0.42
1:A:316:LYS:HD2	3:B:1049:LEU:O	2.19	0.42
1:A:425:LEU:CD2	2:C:83:THR:HG21	2.50	0.42
1:A:607:GLN:N	1:A:608:PRO:HD2	2.34	0.42
1:A:613:HIS:O	1:A:615:LEU:N	2.53	0.42
1:A:659:LYS:O	1:A:663:ASN:HB2	2.19	0.42
1:A:672:VAL:O	1:A:674:ASN:N	2.52	0.42

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:126:LEU:CD1	2:C:131:LYS:HA	2.50	0.42
2:C:388:LEU:HD21	8:K:34:ARG:HG3	2.02	0.42
2:C:393:ILE:HB	5:E:19:GLY:HA2	2.02	0.42
3:B:34:PHE:HD1	3:B:351:ALA:HB2	1.84	0.42
3:B:138:LEU:O	3:B:139:ILE:C	2.58	0.42
3:B:269:LEU:HD13	3:B:286:ILE:HG23	2.01	0.42
3:B:388:ASP:C	3:B:390:VAL:H	2.23	0.42
3:B:459:PRO:HD2	3:B:467:VAL:HG13	2.00	0.42
3:B:840:ARG:HB2	3:B:843:GLU:CB	2.49	0.42
3:B:941:ASP:OD1	3:B:941:ASP:C	2.57	0.42
3:B:1004:ARG:CZ	3:B:1007:GLY:H	2.32	0.42
3:B:1108:ILE:HD12	3:B:1108:ILE:N	2.34	0.42
4:D:7:HIS:O	4:D:8:LYS:HB2	2.20	0.42
4:D:111:SER:O	4:D:114:ILE:HG13	2.19	0.42
4:D:165:ARG:HG2	4:D:165:ARG:NH1	2.34	0.42
4:D:203:CYS:HA	14:D:1001:F3S:S4	2.59	0.42
5:E:42:LEU:O	5:E:76:THR:HG21	2.19	0.42
5:E:151:SER:HB3	5:E:158:PRO:HB3	2.00	0.42
9:L:1:MET:HA	9:L:18:GLU:O	2.19	0.42
1:Q:187:ILE:HA	1:Q:188:PRO:HD3	1.75	0.42
1:Q:233:ASP:O	1:Q:236:THR:HB	2.19	0.42
1:Q:336:GLU:OE1	1:Q:436:ARG:NH1	2.52	0.42
1:Q:377:TYR:O	1:Q:408:GLU:HB2	2.19	0.42
1:Q:548:GLY:C	1:Q:550:GLN:H	2.23	0.42
1:Q:687:ILE:HD11	1:Q:695:SER:HB3	2.01	0.42
1:Q:750:GLN:OE1	1:Q:801:GLY:HA3	2.19	0.42
1:Q:833:GLU:CG	1:Q:839:ARG:HG3	2.48	0.42
2:G:358:ALA:HB2	3:R:1109:ILE:CD1	2.49	0.42
2:G:365:GLU:CG	2:G:366:PHE:N	2.83	0.42
2:G:389:THR:HG22	8:W:77:THR:O	2.20	0.42
3:R:5:LEU:HD23	3:R:630:PRO:HG2	2.00	0.42
3:R:24:VAL:HG21	3:R:426:LEU:HD12	2.01	0.42
3:R:57:LYS:O	3:R:103:VAL:HB	2.20	0.42
3:R:108:GLU:HB2	3:R:109:ALA:H	1.69	0.42
3:R:439:ASN:C	3:R:440:PHE:HD1	2.21	0.42
3:R:963:LEU:HD13	3:R:982:ARG:CZ	2.50	0.42
3:R:972:ASP:OD2	3:R:974:ARG:CD	2.68	0.42
6:U:52:ALA:C	6:U:54:LYS:N	2.72	0.42
8:W:28:THR:O	8:W:30:TYR:N	2.52	0.42
9:X:74:GLU:O	9:X:75:ASN:C	2.57	0.42
1:A:316:LYS:NZ	3:B:1049:LEU:HD12	2.34	0.42

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:643:GLY:O	1:A:644:PHE:CB	2.67	0.42
1:A:737:VAL:HA	1:A:740:ILE:HB	2.01	0.42
1:A:747:LEU:HD12	1:A:782:ILE:HG12	2.01	0.42
2:C:52:PHE:CA	2:C:55:ALA:HB3	2.46	0.42
2:C:65:ALA:CB	8:K:19:PHE:HE1	2.32	0.42
3:B:6:THR:CB	3:B:9:GLU:CB	2.97	0.42
3:B:253:PHE:HA	3:B:256:LEU:CD1	2.49	0.42
3:B:290:GLN:HE21	3:B:308:ARG:HH12	1.66	0.42
3:B:656:PRO:HG3	3:B:926:GLU:HG3	2.00	0.42
3:B:855:THR:O	3:B:858:GLY:N	2.53	0.42
3:B:1105:MET:HG3	3:B:1111:PRO:HG3	2.01	0.42
4:D:78:TRP:O	4:D:80:GLU:N	2.52	0.42
11:P:9:CYS:SG	11:P:10:TRP:N	2.93	0.42
1:Q:94:LEU:C	1:Q:96:ALA:H	2.23	0.42
1:Q:219:ILE:HA	3:R:1012:LEU:CD2	2.49	0.42
1:Q:246:ASN:OD1	1:Q:269:LEU:HD13	2.19	0.42
1:Q:268:LEU:O	1:Q:272:HIS:HD2	2.03	0.42
1:Q:396:GLU:C	1:Q:398:ALA:N	2.73	0.42
1:Q:457:PHE:HB2	3:R:737:SER:HB2	2.00	0.42
1:Q:782:ILE:HD12	1:Q:782:ILE:H	1.81	0.42
1:Q:842:TYR:O	7:V:41:GLN:NE2	2.52	0.42
1:Q:859:TYR:CD1	2:G:64:ILE:HG23	2.53	0.42
3:R:123:LEU:N	3:R:123:LEU:HD12	2.35	0.42
3:R:484:ILE:H	3:R:484:ILE:HG13	1.29	0.42
3:R:982:ARG:NH2	4:S:208:GLU:HG2	2.34	0.42
3:R:1012:LEU:CD1	3:R:1099:LEU:HD13	2.49	0.42
3:R:1069:TRP:HB2	3:R:1070:TYR:H	1.59	0.42
4:S:94:THR:O	4:S:144:ARG:HG3	2.20	0.42
4:S:108:MET:CG	4:S:110:TYR:CE1	3.02	0.42
4:S:129:PRO:CG	10:Y:15:ALA:HB1	2.49	0.42
5:T:82:GLN:CA	5:T:145:ARG:HG3	2.41	0.42
5:T:136:ILE:O	5:T:136:ILE:HG22	2.19	0.42
6:U:30:SER:HB2	6:U:34:LEU:CB	2.49	0.42
8:W:15:PHE:HD1	8:W:16:ASN:H	1.68	0.42
8:W:66:GLU:O	8:W:70:ARG:HG3	2.19	0.42
9:X:47:HIS:O	9:X:48:PRO:C	2.58	0.42
10:Y:22:ILE:CG1	10:Y:23:THR:N	2.82	0.42
1:A:215:PRO:HD2	1:A:276:TYR:OH	2.19	0.42
1:A:450:CYS:N	1:A:451:PRO:CD	2.83	0.42
1:A:490:ARG:CD	1:A:491:TYR:CE2	3.03	0.42
1:A:558:LYS:HZ3	3:R:108:GLU:HG2	1.85	0.42

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:390:MET:HE3	5:E:58:ILE:C	2.40	0.42
3:B:448:THR:C	3:B:450:TRP:N	2.71	0.42
3:B:582:VAL:HG13	3:B:586:ASN:O	2.20	0.42
3:B:719:GLY:N	3:B:989:TYR:OH	2.52	0.42
3:B:1105:MET:HG2	3:B:1111:PRO:CD	2.50	0.42
4:D:51:SER:HB2	4:D:52:PRO:CD	2.47	0.42
4:D:110:TYR:HA	4:D:128:ILE:O	2.19	0.42
4:D:111:SER:O	4:D:114:ILE:CG1	2.67	0.42
5:E:35:GLN:HE21	5:E:47:ALA:HA	1.84	0.42
7:H:15:TYR:HD2	7:H:16:LEU:HD11	1.84	0.42
7:H:45:ILE:HB	7:H:79:ARG:CD	2.49	0.42
7:H:47:ALA:HB2	7:H:81:VAL:CG1	2.50	0.42
9:L:70:LEU:N	9:L:70:LEU:HD12	2.35	0.42
11:P:11:LYS:O	11:P:12:THR:HG23	2.20	0.42
1:Q:46:ASP:O	1:Q:46:ASP:OD1	2.37	0.42
1:Q:672:VAL:O	1:Q:675:LEU:N	2.53	0.42
1:Q:872:PHE:HA	1:Q:876:VAL:CB	2.48	0.42
2:G:133:ASP:O	2:G:135:ASP:N	2.52	0.42
2:G:337:GLU:OE2	2:G:339:ASN:CG	2.58	0.42
3:R:18:PHE:C	3:R:20:SER:N	2.72	0.42
3:R:81:SER:O	3:R:82:PRO:C	2.58	0.42
3:R:103:VAL:HG13	3:R:106:ASN:C	2.40	0.42
3:R:279:GLY:H	3:R:285:ARG:HH22	1.66	0.42
3:R:574:ARG:O	3:R:574:ARG:HG3	2.19	0.42
3:R:797:VAL:HG22	3:R:811:ILE:HG12	2.00	0.42
3:R:814:VAL:HA	3:R:833:ARG:O	2.19	0.42
3:R:963:LEU:HD22	3:R:982:ARG:NH2	2.35	0.42
3:R:1091:VAL:O	3:R:1091:VAL:HG13	2.19	0.42
4:S:18:GLU:HG3	4:S:225:LYS:CG	2.50	0.42
4:S:79:PRO:HG2	4:S:149:TYR:CE1	2.54	0.42
7:V:45:ILE:O	7:V:81:VAL:CA	2.63	0.42
9:X:69:LEU:O	9:X:72:ALA:HB3	2.20	0.42
1:A:27:ILE:CG2	1:A:75:ILE:HD11	2.50	0.42
1:A:203:ARG:HD3	1:A:203:ARG:N	2.34	0.42
1:A:480:MET:C	1:A:481:LEU:O	2.56	0.42
1:A:539:ILE:HB	1:A:545:TYR:CB	2.44	0.42
1:A:563:HIS:CE1	1:A:876:VAL:HG13	2.55	0.42
1:A:786:PHE:CE2	1:A:790:LEU:HD21	2.55	0.42
1:A:831:ARG:NH2	2:C:385:MET:SD	2.92	0.42
1:A:856:PHE:HD1	1:A:858:MET:HB2	1.81	0.42
2:C:118:SER:O	2:C:119:THR:CB	2.68	0.42

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:282:ARG:HD3	3:B:285:ARG:HD3	2.01	0.42
3:B:792:LEU:HD21	3:B:809:VAL:O	2.20	0.42
3:B:1064:CYS:SG	3:B:1081:ILE:HD12	2.59	0.42
3:B:1101:ILE:HG23	3:B:1111:PRO:HB2	2.02	0.42
4:D:61:ARG:HH21	10:N:2:LEU:HD13	1.85	0.42
4:D:111:SER:OG	4:D:125:SER:O	2.37	0.42
4:D:251:ARG:HG3	4:D:251:ARG:NH1	2.35	0.42
4:D:256:LEU:O	4:D:257:GLU:C	2.58	0.42
5:E:53:THR:OG1	5:E:71:GLU:HB2	2.19	0.42
7:H:28:ALA:C	7:H:30:LYS:H	2.23	0.42
1:Q:329:ASP:HA	1:Q:330:PRO:HD3	1.80	0.42
1:Q:486:ILE:HA	1:Q:496:ILE:HD12	2.02	0.42
1:Q:759:ARG:N	1:Q:779:ARG:NH2	2.68	0.42
2:G:63:LEU:HD21	8:W:23:TRP:CH2	2.55	0.42
2:G:145:GLU:O	2:G:146:TYR:O	2.38	0.42
3:R:21:LYS:HD3	3:R:25:ARG:NE	2.35	0.42
3:R:227:MET:HE2	3:R:232:ILE:HG13	2.01	0.42
3:R:254:PRO:HG2	3:R:255:SER:H	1.84	0.42
3:R:316:ALA:C	3:R:318:ALA:N	2.72	0.42
3:R:644:SER:N	3:R:645:PRO:CD	2.82	0.42
3:R:763:VAL:HG23	3:R:859:ASN:CG	2.39	0.42
3:R:838:VAL:CG1	3:R:839:THR:H	2.30	0.42
3:R:1011:ILE:H	3:R:1011:ILE:CD1	2.13	0.42
3:R:1061:CYS:N	3:R:1065:GLY:HA2	2.35	0.42
3:R:1064:CYS:O	3:R:1066:TYR:N	2.53	0.42
4:S:13:ILE:CD1	4:S:239:GLU:N	2.82	0.42
4:S:98:ILE:CD1	4:S:114:ILE:HG12	2.49	0.42
4:S:124:ILE:O	4:S:125:SER:CB	2.66	0.42
5:T:67:TYR:N	5:T:67:TYR:CD1	2.88	0.42
5:T:90:LEU:CD1	5:T:100:ASN:HB2	2.49	0.42
5:T:115:ASP:O	5:T:116:ASP:HB2	2.18	0.42
7:V:75:VAL:HG13	8:W:15:PHE:HE2	1.85	0.42
9:X:46:PRO:CD	9:X:52:LYS:O	2.67	0.42
1:A:364:PHE:CD1	1:A:409:ARG:HD2	2.55	0.42
1:A:563:HIS:ND1	1:A:876:VAL:HG13	2.35	0.42
1:A:856:PHE:HB3	1:A:859:TYR:HD1	1.84	0.42
2:C:144:LEU:O	2:C:145:GLU:C	2.58	0.42
3:B:92:TYR:O	3:B:92:TYR:HD2	2.03	0.42
3:B:298:LEU:C	3:B:300:HIS:N	2.73	0.42
3:B:882:HIS:HE1	3:B:926:GLU:OE1	2.03	0.42
3:B:978:LYS:CE	4:D:205:LEU:HD13	2.50	0.42

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:1059:TYR:HA	3:B:1089:PHE:O	2.20	0.42
4:D:11:THR:HA	4:D:238:PRO:HD3	2.02	0.42
5:E:149:VAL:HG21	5:E:160:ILE:HG13	2.00	0.42
8:K:36:ILE:HG13	8:K:36:ILE:H	1.60	0.42
8:K:70:ARG:O	8:K:72:GLY:N	2.52	0.42
8:K:82:LEU:CD1	8:K:84:ASN:HB2	2.49	0.42
1:Q:195:LEU:N	1:Q:195:LEU:HD12	2.35	0.42
1:Q:199:PRO:C	1:Q:201:THR:H	2.23	0.42
1:Q:237:HIS:O	1:Q:240:VAL:HB	2.19	0.42
1:Q:320:PHE:HA	3:R:1005:ALA:HA	2.02	0.42
1:Q:541:ALA:O	1:Q:542:PRO:C	2.55	0.42
1:Q:611:ILE:O	1:Q:615:LEU:HG	2.20	0.42
1:Q:672:VAL:O	1:Q:674:ASN:N	2.53	0.42
1:Q:687:ILE:HD11	1:Q:695:SER:CB	2.50	0.42
2:G:292:ILE:HB	7:V:16:LEU:HD22	2.02	0.42
2:G:310:ILE:N	2:G:310:ILE:CD1	2.70	0.42
2:G:322:ARG:HH21	7:V:43:PRO:HG3	1.85	0.42
3:R:83:MET:HE3	3:R:686:LEU:HB2	2.01	0.42
3:R:98:LEU:HD13	3:R:98:LEU:O	2.19	0.42
3:R:123:LEU:N	3:R:123:LEU:CD1	2.83	0.42
3:R:661:ASN:OD1	3:R:882:HIS:HB3	2.20	0.42
3:R:922:GLY:CA	3:R:925:MET:HB2	2.39	0.42
4:S:66:PRO:O	4:S:123:PRO:HA	2.20	0.42
4:S:116:SER:O	4:S:118:ASP:N	2.53	0.42
4:S:124:ILE:O	4:S:124:ILE:HG13	2.18	0.42
4:S:251:ARG:HG3	4:S:251:ARG:NH1	2.35	0.42
5:T:1:MET:HG3	5:T:80:VAL:HG21	2.02	0.42
5:T:92:VAL:HG11	5:T:127:ILE:HG12	2.01	0.42
11:Z:25:ARG:HD2	11:Z:30:GLY:HA2	2.02	0.42
1:A:47:PRO:CG	1:A:48:ARG:H	2.31	0.42
1:A:59:PRO:HG2	1:A:61:CYS:SG	2.60	0.42
1:A:343:ILE:HD11	3:B:1001:LEU:CD1	2.49	0.42
1:A:556:LEU:HA	1:A:557:PRO:HD3	1.86	0.42
1:A:562:PHE:CD2	1:A:611:ILE:HG12	2.55	0.42
1:A:826:ALA:CB	2:C:335:THR:HG23	2.33	0.42
2:C:21:SER:O	2:C:33:LYS:HE3	2.20	0.42
2:C:55:ALA:C	2:C:58:GLU:H	2.23	0.42
2:C:102:LEU:CD2	2:C:103:GLY:N	2.67	0.42
2:C:146:TYR:N	2:C:146:TYR:CD1	2.72	0.42
2:C:240:ALA:C	2:C:241:ILE:HG13	2.40	0.42
2:C:386:VAL:HG11	8:K:34:ARG:HB2	2.01	0.42

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:338:TYR:CE2	3:B:341:LYS:NZ	2.88	0.42
3:B:407:ARG:HE	3:B:407:ARG:N	2.18	0.42
3:B:725:ALA:CB	3:B:985:PHE:CE1	3.03	0.42
3:B:838:VAL:CG1	3:B:839:THR:N	2.83	0.42
3:B:935:LEU:CD2	10:N:43:TYR:HB3	2.49	0.42
5:E:30:LEU:HD11	5:E:72:PHE:CE2	2.54	0.42
7:H:17:VAL:O	7:H:17:VAL:HG13	2.20	0.42
7:H:45:ILE:HG22	7:H:81:VAL:N	2.35	0.42
10:N:20:SER:CA	10:N:23:THR:HB	2.50	0.42
1:Q:9:ILE:HD12	2:G:342:LEU:HD11	2.02	0.42
1:Q:428:ILE:CG2	1:Q:428:ILE:O	2.68	0.42
1:Q:481:LEU:HD23	1:Q:482:VAL:N	2.30	0.42
1:Q:530:VAL:O	1:Q:532:ILE:N	2.52	0.42
1:Q:658:LYS:O	1:Q:662:TYR:HB2	2.20	0.42
1:Q:841:LEU:CD2	2:G:367:LYS:HB2	2.49	0.42
2:G:322:ARG:N	2:G:322:ARG:CD	2.78	0.42
3:R:338:TYR:CE2	3:R:341:LYS:NZ	2.88	0.42
3:R:413:LEU:O	3:R:414:LEU:C	2.59	0.42
3:R:472:LEU:HD12	3:R:646:ALA:HA	2.02	0.42
3:R:485:VAL:C	3:R:487:LYS:H	2.23	0.42
3:R:533:GLY:O	3:R:536:LEU:N	2.52	0.42
3:R:570:CYS:O	3:R:571:ASP:O	2.38	0.42
3:R:595:GLU:CA	3:R:599:SER:HB3	2.47	0.42
3:R:702:LEU:HD22	10:Y:47:ARG:NH1	2.35	0.42
3:R:702:LEU:HD12	10:Y:51:SER:HB3	2.02	0.42
3:R:956:GLU:C	3:R:958:LEU:H	2.24	0.42
4:S:67:PHE:CD2	4:S:121:VAL:HG12	2.47	0.42
4:S:72:ALA:C	4:S:74:ASP:H	2.23	0.42
4:S:85:CYS:O	4:S:89:CYS:SG	2.77	0.42
5:T:88:GLU:H	5:T:99:VAL:HG12	1.85	0.42
7:V:81:VAL:O	7:V:82:ILE:CG1	2.68	0.42
10:Y:20:SER:H	10:Y:22:ILE:CD1	2.32	0.42
1:A:297:THR:O	1:A:298:LEU:C	2.58	0.41
1:A:363:GLN:HA	1:A:366:ILE:CG2	2.50	0.41
1:A:558:LYS:HG3	3:R:104:GLU:CB	2.39	0.41
1:A:697:GLU:O	1:A:698:ASN:C	2.58	0.41
1:A:727:VAL:C	1:A:729:ALA:N	2.72	0.41
2:C:108:ILE:O	2:C:109:GLU:C	2.57	0.41
2:C:250:ILE:CG2	2:C:251:ILE:H	2.30	0.41
2:C:379:ILE:CD1	3:B:1042:ALA:HA	2.45	0.41
3:B:39:LEU:HD11	3:B:354:PHE:CZ	2.55	0.41

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:183:ILE:O	3:B:184:THR:O	2.38	0.41
3:B:353:LEU:HA	3:B:404:VAL:CG1	2.46	0.41
3:B:485:VAL:C	3:B:487:LYS:H	2.23	0.41
3:B:517:TRP:CD1	3:B:531:GLN:N	2.81	0.41
3:B:533:GLY:O	3:B:536:LEU:N	2.49	0.41
3:B:582:VAL:CG1	3:B:586:ASN:N	2.75	0.41
3:B:626:VAL:HA	3:B:639:HIS:O	2.20	0.41
4:D:64:LEU:HB3	10:N:6:ARG:HD2	2.01	0.41
6:F:59:LEU:C	6:F:61:ASN:H	2.23	0.41
8:K:15:PHE:HD1	8:K:16:ASN:OD1	2.03	0.41
1:Q:275:THR:HA	1:Q:278:ASP:O	2.20	0.41
1:Q:286:PRO:O	1:Q:287:SER:CB	2.66	0.41
1:Q:298:LEU:O	1:Q:301:ARG:N	2.52	0.41
1:Q:334:ILE:CG2	1:Q:482:VAL:CG1	2.97	0.41
1:Q:363:GLN:HA	1:Q:366:ILE:CG2	2.50	0.41
1:Q:440:GLY:HA3	1:Q:444:ARG:NH2	2.34	0.41
1:Q:508:LEU:O	1:Q:638:PHE:CE2	2.73	0.41
1:Q:667:ARG:HG2	1:Q:667:ARG:NH1	2.34	0.41
2:G:117:PRO:HD3	2:G:276:ASN:HD21	1.85	0.41
2:G:129:GLU:O	2:G:131:LYS:N	2.53	0.41
3:R:64:ARG:NH1	3:R:64:ARG:CG	2.81	0.41
3:R:165:GLU:OE2	3:R:338:TYR:OH	2.31	0.41
3:R:337:HIS:CD2	3:R:339:ALA:HB3	2.55	0.41
3:R:453:MET:CG	3:R:468:LYS:HD2	2.39	0.41
3:R:691:ARG:CZ	3:R:756:ARG:HH21	2.33	0.41
3:R:1012:LEU:O	3:R:1095:TYR:CE2	2.68	0.41
5:T:27:LEU:HB2	5:T:51:VAL:HG21	2.02	0.41
5:T:30:LEU:HD11	5:T:72:PHE:CE2	2.55	0.41
5:T:149:VAL:HG22	5:T:160:ILE:HA	2.01	0.41
6:U:72:LEU:C	6:U:74:SER:N	2.72	0.41
8:W:49:ALA:O	8:W:50:LEU:O	2.38	0.41
8:W:53:ILE:O	8:W:54:ASN:HB2	2.20	0.41
10:Y:16:ASP:OD2	10:Y:17:LYS:HG3	2.19	0.41
1:A:51:VAL:HG23	1:A:58:CYS:HB3	2.01	0.41
1:A:334:ILE:CG2	1:A:482:VAL:HG11	2.47	0.41
1:A:428:ILE:HG21	1:A:495:ILE:HD13	2.01	0.41
1:A:558:LYS:NZ	3:R:108:GLU:HG2	2.34	0.41
1:A:569:SER:HB2	1:A:584:SER:HG	1.85	0.41
1:A:668:ALA:CB	1:A:707:LEU:HD13	2.49	0.41
1:A:827:LEU:CD1	2:C:315:LEU:HD13	2.44	0.41
3:B:53:ILE:HB	3:B:54:PRO:CD	2.50	0.41

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:83:MET:O	3:B:87:LEU:HD12	2.20	0.41
3:B:234:THR:HB	3:B:237:ASP:OD2	2.20	0.41
3:B:247:GLU:N	3:B:249:GLN:HG2	2.35	0.41
3:B:740:MET:HE1	3:B:888:ILE:HD11	2.02	0.41
3:B:759:SER:CB	3:B:862:VAL:O	2.57	0.41
3:B:1069:TRP:NE1	3:B:1088:LEU:CB	2.79	0.41
3:B:1097:PHE:O	3:B:1098:LYS:C	2.57	0.41
4:D:123:PRO:C	4:D:125:SER:H	2.23	0.41
4:D:253:ILE:HG23	4:D:254:GLU:N	2.34	0.41
8:K:39:ARG:NE	8:K:68:GLU:OE1	2.53	0.41
8:K:78:ILE:CD1	8:K:92:LEU:HD12	2.50	0.41
9:L:25:GLY:O	9:L:43:TYR:CG	2.74	0.41
9:L:69:LEU:CD2	9:L:73:ILE:HG12	2.50	0.41
11:P:13:PHE:N	11:P:13:PHE:CD1	2.88	0.41
1:Q:357:ASN:HD22	1:Q:361:LEU:HD22	1.85	0.41
1:Q:394:ARG:O	1:Q:395:LYS:C	2.58	0.41
1:Q:512:LYS:HE3	1:Q:583:ASP:HA	2.02	0.41
1:Q:715:ALA:C	1:Q:717:LYS:H	2.23	0.41
1:Q:727:VAL:O	1:Q:728:MET:C	2.57	0.41
2:G:40:GLU:O	2:G:45:ARG:CG	2.64	0.41
2:G:64:ILE:O	2:G:65:ALA:HB2	2.20	0.41
3:R:31:TYR:O	3:R:34:PHE:HB3	2.20	0.41
3:R:228:ARG:NH1	3:R:262:ILE:O	2.52	0.41
3:R:490:TYR:CE1	3:R:527:ILE:CG2	2.99	0.41
3:R:557:HIS:N	3:R:623:ASN:ND2	2.47	0.41
3:R:627:ALA:O	3:R:628:LEU:C	2.58	0.41
3:R:774:VAL:O	3:R:775:MET:C	2.57	0.41
3:R:992:LYS:CE	3:R:996:MET:SD	3.08	0.41
4:S:18:GLU:HA	4:S:225:LYS:HG2	2.01	0.41
4:S:253:ILE:CG2	4:S:254:GLU:N	2.83	0.41
6:U:46:LYS:HD2	6:U:74:SER:O	2.20	0.41
6:U:59:LEU:HD23	6:U:59:LEU:C	2.41	0.41
1:A:550:GLN:O	1:A:553:SER:HB3	2.21	0.41
2:C:391:ARG:HH11	2:C:391:ARG:CG	2.14	0.41
3:B:14:ILE:HG12	3:B:18:PHE:CE2	2.55	0.41
3:B:82:PRO:CG	3:B:143:GLU:OE1	2.67	0.41
3:B:227:MET:CE	3:B:312:ALA:O	2.68	0.41
3:B:338:TYR:OH	3:B:468:LYS:HE3	2.20	0.41
3:B:477:ALA:HB2	3:B:576:ARG:NE	2.34	0.41
3:B:591:ILE:CD1	3:B:612:LYS:HZ3	2.32	0.41
3:B:902:LYS:CB	10:N:42:ARG:NH1	2.79	0.41

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:933:ALA:CB	10:N:47:ARG:HH12	2.22	0.41
4:D:107:ARG:O	4:D:133:LEU:N	2.48	0.41
5:E:51:VAL:O	5:E:53:THR:N	2.48	0.41
5:E:92:VAL:HG11	5:E:127:ILE:HG12	2.01	0.41
5:E:112:GLN:HE21	5:E:112:GLN:HB3	1.67	0.41
7:H:32:LEU:HD22	7:H:39:PRO:HD3	2.02	0.41
9:L:66:LYS:H	9:L:66:LYS:HG3	1.60	0.41
10:N:7:CYS:SG	10:N:45:CYS:SG	3.18	0.41
1:Q:432:ALA:HB3	1:Q:480:MET:O	2.20	0.41
2:G:125:TYR:HA	2:G:250:ILE:HG23	2.02	0.41
3:R:97:TRP:CZ3	3:R:113:GLU:HB3	2.55	0.41
3:R:119:LEU:HD11	3:R:350:PHE:HE2	1.85	0.41
3:R:125:SER:O	3:R:128:ASP:N	2.53	0.41
3:R:139:ILE:HD12	10:Y:61:HIS:NE2	2.35	0.41
3:R:234:THR:HG21	3:R:236:ARG:HB2	2.02	0.41
3:R:321:LYS:HA	3:R:324:GLU:HB3	2.01	0.41
3:R:321:LYS:HE3	3:R:321:LYS:HB3	1.79	0.41
3:R:373:LYS:HG3	3:R:375:ARG:CB	2.47	0.41
3:R:497:VAL:O	3:R:498:GLU:C	2.58	0.41
3:R:745:VAL:C	3:R:747:ARG:H	2.24	0.41
3:R:756:ARG:CG	3:R:757:LEU:N	2.82	0.41
3:R:810:LEU:HD13	3:R:864:VAL:HG11	2.02	0.41
4:S:11:THR:HA	4:S:238:PRO:HD3	2.02	0.41
4:S:78:TRP:N	4:S:78:TRP:HD1	2.16	0.41
4:S:111:SER:OG	4:S:125:SER:O	2.37	0.41
11:Z:22:PRO:HG2	11:Z:23:GLY:N	2.34	0.41
1:A:71:HIS:ND1	3:B:1070:TYR:CE2	2.89	0.41
1:A:308:ARG:O	1:A:308:ARG:HG2	2.20	0.41
1:A:363:GLN:O	1:A:367:ASN:OD1	2.39	0.41
1:A:396:GLU:C	1:A:398:ALA:N	2.73	0.41
1:A:589:LYS:O	1:A:592:ILE:HG13	2.19	0.41
1:A:589:LYS:O	1:A:592:ILE:CG1	2.68	0.41
1:A:720:ASP:C	1:A:722:PHE:N	2.73	0.41
2:C:86:THR:O	2:C:104:LEU:CD1	2.68	0.41
2:C:284:PHE:CD1	2:C:284:PHE:N	2.87	0.41
3:B:183:ILE:CG1	3:B:206:LYS:HB3	2.49	0.41
3:B:388:ASP:O	3:B:389:ILE:C	2.58	0.41
3:B:756:ARG:CG	3:B:757:LEU:N	2.83	0.41
3:B:790:ARG:HG3	3:B:791:LEU:N	2.36	0.41
3:B:797:VAL:CB	11:P:36:MET:HE1	2.40	0.41
3:B:978:LYS:HZ1	4:D:205:LEU:CD1	2.31	0.41

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:1046:LYS:HG2	3:B:1050:LEU:HD21	2.02	0.41
4:D:64:LEU:HB3	10:N:5:ILE:HG13	2.02	0.41
4:D:260:LEU:CD2	4:D:264:VAL:HG21	2.51	0.41
1:Q:424:SER:HB3	3:R:1032:GLU:OE2	2.20	0.41
1:Q:532:ILE:O	1:Q:533:ASP:C	2.59	0.41
1:Q:607:GLN:N	1:Q:608:PRO:HD2	2.35	0.41
2:G:286:ILE:HG13	7:V:49:ASP:OD2	2.19	0.41
2:G:289:ALA:O	2:G:290:ARG:C	2.56	0.41
3:R:21:LYS:CA	3:R:25:ARG:NH1	2.82	0.41
3:R:82:PRO:C	3:R:84:GLU:H	2.24	0.41
3:R:83:MET:O	3:R:87:LEU:HD12	2.20	0.41
3:R:87:LEU:HD22	3:R:851:LEU:HD11	2.02	0.41
3:R:119:LEU:HD11	3:R:350:PHE:CE2	2.55	0.41
3:R:269:LEU:HD13	3:R:286:ILE:HG23	2.02	0.41
3:R:536:LEU:O	3:R:536:LEU:HD22	2.20	0.41
3:R:558:ILE:HG21	3:R:563:ILE:HG21	2.02	0.41
3:R:648:LEU:HD22	3:R:652:ALA:HB1	2.02	0.41
3:R:668:TYR:O	3:R:671:ALA:HB3	2.20	0.41
3:R:703:VAL:HG21	3:R:930:GLY:N	2.35	0.41
4:S:38:ILE:HD12	4:S:38:ILE:C	2.41	0.41
4:S:165:ARG:HH11	4:S:165:ARG:HG2	1.85	0.41
4:S:187:VAL:HG21	4:S:203:CYS:HB2	2.00	0.41
4:S:252:LYS:O	4:S:256:LEU:N	2.47	0.41
5:T:114:THR:HG22	5:T:115:ASP:N	2.36	0.41
5:T:179:LYS:HZ2	6:U:79:THR:CB	2.26	0.41
6:U:59:LEU:C	6:U:61:ASN:H	2.23	0.41
1:A:301:ARG:NH1	1:A:308:ARG:HH12	2.18	0.41
1:A:364:PHE:HA	1:A:373:PRO:O	2.21	0.41
1:A:375:ALA:HB2	1:A:409:ARG:HA	2.02	0.41
1:A:438:LEU:HD23	1:A:438:LEU:C	2.40	0.41
1:A:485:ASN:ND2	3:B:1039:PHE:CE2	2.88	0.41
1:A:532:ILE:HG23	9:L:40:PHE:CD1	2.55	0.41
1:A:555:PHE:CD2	1:A:631:LEU:HD13	2.56	0.41
2:C:21:SER:O	2:C:33:LYS:CE	2.69	0.41
2:C:299:LYS:O	2:C:302:ALA:HB3	2.21	0.41
2:C:309:ASP:OD2	2:C:310:ILE:N	2.53	0.41
2:C:391:ARG:O	2:C:391:ARG:HG2	2.20	0.41
3:B:50:PRO:CG	3:B:51:THR:N	2.84	0.41
3:B:83:MET:HG2	3:B:86:ARG:NH2	2.35	0.41
3:B:211:HIS:HD1	3:B:222:PRO:HG3	1.86	0.41
3:B:232:ILE:HG23	3:B:237:ASP:HB3	2.03	0.41

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:369:LEU:HD21	3:B:379:LEU:CD2	2.49	0.41
3:B:668:TYR:O	3:B:671:ALA:HB3	2.20	0.41
3:B:840:ARG:NH1	3:B:1021:ALA:HB2	2.35	0.41
3:B:875:GLY:HA2	3:B:887:VAL:HG11	2.03	0.41
3:B:1089:PHE:HA	3:B:1090:PRO:HD3	1.80	0.41
4:D:18:GLU:CG	4:D:225:LYS:HG2	2.50	0.41
6:F:13:PRO:HG2	6:F:16:VAL:HG23	2.02	0.41
6:F:71:ILE:O	6:F:71:ILE:HG22	2.20	0.41
1:Q:426:HIS:O	1:Q:429:SER:HB2	2.19	0.41
1:Q:444:ARG:N	1:Q:444:ARG:HD3	2.36	0.41
1:Q:512:LYS:N	1:Q:583:ASP:OD2	2.54	0.41
1:Q:708:ARG:HG3	1:Q:709:SER:H	1.84	0.41
1:Q:739:ASN:O	3:R:919:MET:HE3	2.20	0.41
1:Q:747:LEU:HD12	1:Q:790:LEU:HD11	2.01	0.41
1:Q:823:LEU:HD12	1:Q:824:ILE:H	1.84	0.41
2:G:117:PRO:CD	2:G:276:ASN:OD1	2.69	0.41
3:R:244:LEU:CD1	3:R:500:VAL:HB	2.50	0.41
3:R:346:ALA:O	3:R:347:GLY:C	2.59	0.41
3:R:358:PHE:O	3:R:360:ALA:N	2.53	0.41
3:R:696:HIS:NE2	3:R:752:SER:O	2.53	0.41
4:S:18:GLU:OE1	4:S:225:LYS:HD2	2.21	0.41
4:S:61:ARG:HH11	4:S:61:ARG:HG2	1.86	0.41
4:S:253:ILE:HG23	4:S:254:GLU:N	2.35	0.41
6:U:13:PRO:HG2	6:U:16:VAL:HG23	2.02	0.41
9:X:77:ARG:CZ	9:X:77:ARG:HB2	2.50	0.41
11:Z:33:ILE:O	11:Z:34:ILE:C	2.59	0.41
1:A:262:ILE:CD1	1:A:266:TRP:HE1	2.33	0.41
1:A:687:ILE:HD11	1:A:695:SER:HB3	2.02	0.41
1:A:759:ARG:HE	1:A:759:ARG:HB3	1.58	0.41
1:A:842:TYR:O	7:H:41:GLN:NE2	2.53	0.41
2:C:131:LYS:HG2	2:C:248:GLU:C	2.41	0.41
2:C:249:TYR:HD1	2:C:249:TYR:H	1.67	0.41
2:C:390:MET:HE1	5:E:58:ILE:O	2.21	0.41
3:B:5:LEU:N	3:B:5:LEU:CD1	2.84	0.41
3:B:5:LEU:HD23	3:B:630:PRO:HG2	2.02	0.41
3:B:81:SER:HB3	3:B:84:GLU:CG	2.43	0.41
3:B:223:PHE:CD2	3:B:256:LEU:HD22	2.55	0.41
3:B:228:ARG:NH2	3:B:233:LEU:O	2.54	0.41
3:B:578:PRO:HB3	3:B:615:TYR:CE1	2.55	0.41
3:B:617:ASP:C	3:B:617:ASP:OD2	2.59	0.41
3:B:633:LEU:O	3:B:635:PRO:CD	2.68	0.41

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:707:ALA:HA	3:B:710:ILE:HD12	2.03	0.41
4:D:129:PRO:HD2	10:N:16:ASP:N	2.36	0.41
6:F:13:PRO:O	6:F:14:TYR:C	2.59	0.41
7:H:42:LEU:O	7:H:43:PRO:C	2.58	0.41
8:K:54:ASN:ND2	8:K:58:SER:N	2.68	0.41
9:L:67:ASP:C	9:L:69:LEU:N	2.73	0.41
1:Q:25:THR:HG22	1:Q:26:ALA:N	2.36	0.41
1:Q:293:ARG:HA	1:Q:294:PRO:HD3	1.87	0.41
1:Q:313:LEU:HD12	1:Q:313:LEU:HA	1.86	0.41
2:G:373:ILE:O	3:R:1049:LEU:HD21	2.21	0.41
2:G:391:ARG:HH21	8:W:42:GLN:NE2	2.19	0.41
3:R:31:TYR:O	3:R:35:VAL:HG12	2.21	0.41
3:R:55:GLY:O	3:R:105:ASN:N	2.53	0.41
3:R:145:PRO:O	3:R:147:ASP:N	2.53	0.41
3:R:183:ILE:CG1	3:R:206:LYS:HB3	2.50	0.41
3:R:226:LEU:HD13	3:R:297:PHE:CE1	2.56	0.41
3:R:247:GLU:N	3:R:249:GLN:HG2	2.34	0.41
3:R:291:GLN:O	3:R:295:LYS:HE2	2.20	0.41
3:R:958:LEU:HA	3:R:962:TYR:O	2.21	0.41
4:S:63:ALA:CB	4:S:155:LYS:HZ3	2.30	0.41
5:T:23:ASN:O	5:T:26:ALA:N	2.53	0.41
6:U:79:THR:CG2	6:U:80:SER:N	2.82	0.41
7:V:49:ASP:CG	7:V:50:PRO:HD2	2.41	0.41
10:Y:21:PHE:CE2	10:Y:49:LEU:HD13	2.56	0.41
1:A:216:PRO:O	1:A:219:ILE:HD11	2.20	0.41
1:A:647:ARG:HD2	3:B:965:ASP:CB	2.51	0.41
1:A:712:GLY:C	1:A:714:ILE:H	2.23	0.41
1:A:764:ARG:NH2	3:B:624:ALA:O	2.53	0.41
1:A:839:ARG:NH1	7:H:37:ILE:HG23	2.36	0.41
1:A:874:ARG:HD3	1:A:874:ARG:HA	1.73	0.41
3:B:6:THR:O	3:B:7:ILE:HD13	2.21	0.41
3:B:121:ILE:CG2	3:B:128:ASP:HB2	2.51	0.41
3:B:128:ASP:OD1	3:B:130:ILE:N	2.53	0.41
3:B:162:VAL:HG23	3:B:428:ARG:O	2.20	0.41
3:B:291:GLN:C	3:B:293:ILE:N	2.74	0.41
3:B:536:LEU:O	3:B:536:LEU:HD22	2.20	0.41
3:B:1036:LEU:HB3	3:B:1041:THR:HG23	2.02	0.41
3:B:1069:TRP:HH2	3:B:1072:LYS:HE3	1.85	0.41
4:D:176:CYS:N	4:D:195:LEU:CD2	2.83	0.41
5:E:127:ILE:HB	5:E:136:ILE:CG1	2.49	0.41
6:F:79:THR:CG2	6:F:80:SER:H	2.32	0.41

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:H:12:ARG:O	7:H:13:ILE:CB	2.69	0.41
8:K:25:ASN:O	8:K:26:ARG:O	2.38	0.41
1:Q:82:ILE:HD11	1:Q:90:ILE:CD1	2.51	0.41
1:Q:361:LEU:HD12	1:Q:361:LEU:HA	1.93	0.41
1:Q:447:LEU:HA	1:Q:450:CYS:SG	2.61	0.41
1:Q:551:VAL:O	1:Q:554:ALA:HB3	2.21	0.41
1:Q:601:LYS:HD3	1:Q:601:LYS:HA	1.89	0.41
1:Q:759:ARG:H	1:Q:779:ARG:NH2	2.19	0.41
1:Q:827:LEU:HD11	2:G:315:LEU:CD1	2.43	0.41
1:Q:841:LEU:HD23	2:G:367:LYS:HB2	2.03	0.41
1:Q:853:ASP:OD2	2:G:311:ARG:NH1	2.54	0.41
2:G:63:LEU:HD11	8:W:25:ASN:HD22	1.85	0.41
3:R:253:PHE:HA	3:R:256:LEU:HD12	2.02	0.41
3:R:343:LEU:HB3	3:R:344:ARG:H	1.71	0.41
3:R:560:THR:CG2	3:R:561:ASP:H	2.32	0.41
3:R:578:PRO:HB3	3:R:615:TYR:CE1	2.56	0.41
3:R:676:ALA:HB2	3:R:991:GLN:NE2	2.35	0.41
3:R:792:LEU:HD11	3:R:809:VAL:HG11	1.99	0.41
3:R:941:ASP:OD1	3:R:941:ASP:C	2.59	0.41
3:R:1012:LEU:C	3:R:1012:LEU:CD1	2.89	0.41
3:R:1017:THR:O	3:R:1024:GLY:HA3	2.20	0.41
3:R:1062:ASP:OD1	3:R:1062:ASP:N	2.54	0.41
4:S:22:LEU:HD13	4:S:226:TYR:CE1	2.55	0.41
4:S:27:ALA:HB1	9:X:23:THR:CG2	2.51	0.41
4:S:108:MET:SD	4:S:131:VAL:O	2.79	0.41
4:S:178:LYS:HA	4:S:181:ASN:ND2	2.35	0.41
6:U:48:ASP:O	6:U:52:ALA:N	2.37	0.41
1:A:258:PRO:CB	1:A:261:ILE:HD12	2.51	0.41
1:A:321:SER:O	1:A:322:SER:HB2	2.20	0.41
1:A:495:ILE:O	1:A:495:ILE:HG12	2.21	0.41
1:A:674:ASN:OD1	1:A:675:LEU:N	2.54	0.41
1:A:822:ARG:O	1:A:823:LEU:C	2.58	0.41
2:C:106:ARG:HH11	2:C:106:ARG:CG	2.33	0.41
2:C:131:LYS:HD3	2:C:248:GLU:CG	2.51	0.41
3:B:758:TYR:HB3	3:B:837:ILE:HG21	2.02	0.41
4:D:39:MET:HG3	4:D:145:LEU:HD23	2.02	0.41
4:D:39:MET:O	4:D:67:PHE:HB2	2.21	0.41
4:D:67:PHE:CD2	4:D:121:VAL:HG12	2.46	0.41
4:D:175:ASN:C	4:D:195:LEU:HD21	2.40	0.41
1:Q:285:PRO:HA	1:Q:286:PRO:HD3	1.80	0.41
1:Q:315:GLY:HA2	3:R:1029:GLY:HA2	2.02	0.41

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:331:ASN:C	1:Q:332:ILE:CD1	2.89	0.41
1:Q:422:GLN:HA	1:Q:423:PRO:C	2.41	0.41
1:Q:482:VAL:O	1:Q:484:LYS:N	2.53	0.41
1:Q:495:ILE:HG23	1:Q:496:ILE:HG13	2.02	0.41
1:Q:507:TYR:O	1:Q:507:TYR:CD2	2.74	0.41
1:Q:649:GLU:HG3	3:R:965:ASP:OD2	2.20	0.41
2:G:18:LYS:HB2	2:G:19:GLN:H	1.67	0.41
2:G:117:PRO:O	2:G:120:PRO:HG3	2.20	0.41
2:G:267:VAL:O	2:G:267:VAL:HG12	2.21	0.41
3:R:59:ARG:CZ	3:R:107:ILE:HD12	2.51	0.41
3:R:92:TYR:O	3:R:92:TYR:CD2	2.73	0.41
3:R:119:LEU:HD12	3:R:120:PRO:N	2.35	0.41
3:R:795:ASN:ND2	11:Z:36:MET:CE	2.82	0.41
3:R:899:TYR:CE2	4:S:29:ARG:CZ	3.03	0.41
4:S:35:TYR:O	4:S:37:PRO:HD3	2.21	0.41
4:S:48:GLU:N	4:S:140:SER:HB3	2.35	0.41
5:T:17:GLU:CD	5:T:25:ILE:HD12	2.41	0.41
5:T:36:GLU:HG2	6:U:34:LEU:HG	2.03	0.41
7:V:45:ILE:HB	7:V:79:ARG:CD	2.50	0.41
8:W:51:ILE:HG22	8:W:51:ILE:O	2.19	0.41
10:Y:8:PHE:CD2	10:Y:8:PHE:N	2.87	0.41
10:Y:42:ARG:CG	10:Y:43:TYR:N	2.76	0.41
11:Z:11:LYS:O	11:Z:12:THR:HG23	2.21	0.41
1:A:8:GLY:H	2:C:366:PHE:HE1	1.68	0.41
1:A:92:GLU:O	1:A:95:LYS:HB2	2.21	0.41
1:A:380:ARG:HB3	1:A:381:PRO:HD2	2.03	0.41
1:A:490:ARG:HD2	1:A:491:TYR:CE2	2.56	0.41
1:A:615:LEU:O	1:A:619:TYR:HD1	2.03	0.41
1:A:651:VAL:CG2	1:A:743:MET:HB3	2.51	0.41
1:A:678:LYS:HD2	1:A:684:LEU:HG	2.02	0.41
1:A:826:ALA:HB1	2:C:334:VAL:CG1	2.45	0.41
1:A:832:ALA:CB	2:C:66:PRO:HB2	2.51	0.41
2:C:13:LEU:HD22	2:C:16:LYS:HZ2	1.85	0.41
2:C:63:LEU:HD23	2:C:63:LEU:C	2.41	0.41
2:C:135:ASP:O	2:C:137:ALA:N	2.53	0.41
2:C:270:ALA:HA	7:H:14:HIS:CE1	2.52	0.41
2:C:288:ALA:HA	7:H:16:LEU:O	2.21	0.41
2:C:375:ILE:HG23	2:C:377:HIS:H	1.86	0.41
3:B:19:LYS:HD3	3:B:603:THR:CG2	2.51	0.41
3:B:34:PHE:HA	3:B:38:LYS:HB3	2.02	0.41
3:B:145:PRO:O	3:B:147:ASP:N	2.54	0.41

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:234:THR:CG2	3:B:236:ARG:HB2	2.51	0.41
3:B:278:ILE:HG22	3:B:279:GLY:H	1.82	0.41
3:B:472:LEU:O	3:B:473:MET:O	2.39	0.41
3:B:800:PRO:HG2	11:P:38:ARG:N	2.36	0.41
4:D:21:PRO:O	4:D:24:PHE:HB3	2.21	0.41
4:D:27:ALA:HA	9:L:23:THR:HG23	2.03	0.41
4:D:35:TYR:O	4:D:149:TYR:HD2	2.04	0.41
4:D:131:VAL:CG2	4:D:132:LEU:N	2.61	0.41
4:D:133:LEU:HD21	4:D:139:ILE:CG1	2.50	0.41
4:D:151:LYS:O	4:D:152:GLU:C	2.59	0.41
8:K:21:SER:C	8:K:23:TRP:N	2.73	0.41
8:K:66:GLU:O	8:K:70:ARG:HG3	2.21	0.41
10:N:53:VAL:HG23	10:N:54:ASP:N	2.36	0.41
1:Q:23:SER:C	1:Q:24:VAL:HG13	2.40	0.41
1:Q:30:PRO:HB2	1:Q:244:ARG:HA	2.02	0.41
1:Q:58:CYS:O	1:Q:60:THR:N	2.52	0.41
1:Q:70:GLY:HA3	1:Q:216:PRO:HG3	2.03	0.41
1:Q:80:PRO:HD2	1:Q:178:SER:HB3	2.03	0.41
1:Q:269:LEU:O	1:Q:273:VAL:HG23	2.21	0.41
1:Q:317:ARG:HB2	3:R:1016:PRO:HB2	2.03	0.41
1:Q:618:GLU:HG3	2:G:61:GLU:OE2	2.21	0.41
1:Q:672:VAL:CG1	1:Q:700:ILE:HD12	2.36	0.41
1:Q:752:VAL:HG22	1:Q:757:ILE:HD13	2.03	0.41
1:Q:786:PHE:CE2	1:Q:790:LEU:HD21	2.55	0.41
1:Q:841:LEU:C	1:Q:843:GLY:H	2.24	0.41
1:Q:855:VAL:O	1:Q:855:VAL:HG12	2.21	0.41
1:Q:866:VAL:CG1	1:Q:869:ASN:H	2.09	0.41
2:G:144:LEU:O	2:G:145:GLU:C	2.59	0.41
2:G:341:VAL:HG13	2:G:364:GLU:HG2	2.02	0.41
2:G:384:GLY:HA2	5:T:61:PHE:CE1	2.56	0.41
3:R:38:LYS:O	3:R:39:LEU:HB3	2.21	0.41
3:R:53:ILE:HB	3:R:54:PRO:CD	2.51	0.41
3:R:104:GLU:OE2	3:R:379:LEU:HD12	2.20	0.41
3:R:128:ASP:OD1	3:R:130:ILE:CB	2.68	0.41
3:R:183:ILE:HB	3:R:207:ASP:O	2.20	0.41
3:R:237:ASP:O	3:R:241:ALA:N	2.54	0.41
3:R:535:GLU:O	3:R:536:LEU:C	2.58	0.41
3:R:555:VAL:HG21	3:R:568:VAL:HG22	2.03	0.41
3:R:702:LEU:O	3:R:703:VAL:HB	2.21	0.41
3:R:725:ALA:CB	3:R:985:PHE:CE1	3.04	0.41
3:R:725:ALA:O	3:R:909:ILE:HG23	2.20	0.41

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:762:GLU:OE2	3:R:773:ILE:HG13	2.21	0.41
3:R:895:VAL:HG21	4:S:34:LEU:HD21	2.03	0.41
3:R:904:VAL:HG21	10:Y:42:ARG:NE	2.29	0.41
3:R:920:THR:C	3:R:921:LEU:O	2.57	0.41
3:R:935:LEU:HD21	10:Y:43:TYR:HD2	1.85	0.41
3:R:1046:LYS:C	3:R:1048:ARG:N	2.74	0.41
3:R:1062:ASP:OD1	3:R:1087:ASN:O	2.39	0.41
4:S:31:ALA:HA	4:S:35:TYR:HD2	1.85	0.41
4:S:68:MET:CE	4:S:124:ILE:HG22	2.51	0.41
5:T:51:VAL:O	5:T:53:THR:N	2.49	0.41
5:T:58:ILE:HG22	5:T:59:LEU:N	2.35	0.41
5:T:75:ILE:HD12	6:U:20:LEU:HD12	2.03	0.41
5:T:92:VAL:CG1	5:T:127:ILE:HG12	2.49	0.41
5:T:97:ILE:CD1	5:T:136:ILE:HG21	2.51	0.41
6:U:60:SER:HA	6:U:69:ARG:NH2	2.36	0.41
7:V:17:VAL:HG13	7:V:17:VAL:O	2.20	0.41
8:W:15:PHE:HD1	8:W:16:ASN:OD1	2.04	0.41
8:W:79:ARG:NH1	8:W:79:ARG:CG	2.84	0.41
9:X:74:GLU:O	9:X:77:ARG:N	2.54	0.41
1:A:70:GLY:O	3:B:1067:ILE:HD11	2.21	0.41
1:A:422:GLN:HA	1:A:423:PRO:C	2.41	0.41
1:A:426:HIS:CE1	1:A:490:ARG:HH22	2.39	0.41
1:A:563:HIS:HD2	1:A:587:VAL:HG13	1.85	0.41
1:A:697:GLU:CD	1:A:756:ARG:HD3	2.41	0.41
1:A:778:ALA:O	1:A:780:GLY:N	2.54	0.41
2:C:25:PRO:O	2:C:28:ILE:HA	2.21	0.41
2:C:125:TYR:HA	2:C:250:ILE:HG23	2.03	0.41
2:C:140:VAL:O	2:C:144:LEU:HG	2.20	0.41
3:B:59:ARG:CZ	3:B:107:ILE:HD12	2.51	0.41
3:B:849:LEU:HD12	3:B:850:VAL:H	1.86	0.41
3:B:1100:LEU:O	3:B:1101:ILE:C	2.59	0.41
4:D:30:ARG:O	4:D:34:LEU:HG	2.20	0.41
4:D:31:ALA:HB3	4:D:245:ALA:HB1	2.03	0.41
4:D:66:PRO:CD	10:N:13:LEU:HD21	2.51	0.41
5:E:90:LEU:HD12	5:E:100:ASN:HB2	2.03	0.41
7:H:13:ILE:HG13	7:H:14:HIS:N	2.36	0.41
8:K:78:ILE:HD11	8:K:92:LEU:HD12	2.03	0.41
9:L:76:ILE:O	9:L:79:MET:HB3	2.21	0.41
1:Q:297:THR:O	1:Q:300:GLN:HB3	2.20	0.41
1:Q:329:ASP:OD2	3:R:732:TYR:CE2	2.74	0.41
1:Q:344:ALA:O	1:Q:411:LEU:HB2	2.21	0.41

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:469:SER:HB2	1:Q:472:ALA:H	1.85	0.41
1:Q:500:GLN:HB2	3:R:913:HIS:CD2	2.56	0.41
1:Q:517:THR:CG2	1:Q:518:LYS:H	2.34	0.41
1:Q:529:ASP:HB3	1:Q:626:TRP:CD1	2.55	0.41
1:Q:620:SER:C	1:Q:622:GLU:N	2.74	0.41
1:Q:649:GLU:HG3	3:R:965:ASP:CG	2.42	0.41
1:Q:674:ASN:CG	1:Q:675:LEU:N	2.75	0.41
1:Q:826:ALA:CB	2:G:334:VAL:HG13	2.44	0.41
2:G:68:GLU:HB3	8:W:30:TYR:OH	2.21	0.41
2:G:80:GLU:C	2:G:80:GLU:OE1	2.59	0.41
2:G:390:MET:SD	5:T:67:TYR:O	2.79	0.41
3:R:9:GLU:O	3:R:10:ARG:C	2.59	0.41
3:R:183:ILE:O	3:R:184:THR:O	2.39	0.41
3:R:368:GLN:O	3:R:372:SER:N	2.54	0.41
3:R:412:GLN:NE2	3:R:425:HIS:CE1	2.89	0.41
3:R:624:ALA:CB	3:R:639:HIS:CD2	3.04	0.41
3:R:729:PHE:C	3:R:731:GLY:N	2.72	0.41
3:R:740:MET:HB3	3:R:891:LEU:CD1	2.51	0.41
9:X:87:ILE:HG23	9:X:88:LYS:N	2.35	0.41
1:A:58:CYS:O	1:A:60:THR:N	2.50	0.40
1:A:92:GLU:HA	1:A:95:LYS:HG3	2.03	0.40
1:A:361:LEU:HD12	1:A:361:LEU:HA	1.96	0.40
1:A:495:ILE:HG23	1:A:496:ILE:HG13	2.02	0.40
1:A:750:GLN:OE1	1:A:801:GLY:HA3	2.21	0.40
2:C:32:LEU:O	2:C:36:ILE:HG13	2.21	0.40
2:C:131:LYS:HD3	2:C:248:GLU:HB3	2.01	0.40
2:C:247:ASP:O	2:C:248:GLU:HG3	2.21	0.40
3:B:6:THR:CB	3:B:9:GLU:HB3	2.50	0.40
3:B:334:ASP:OD1	3:B:446:HIS:CE1	2.73	0.40
3:B:439:ASN:C	3:B:440:PHE:HD1	2.24	0.40
3:B:497:VAL:HG12	3:B:498:GLU:H	1.74	0.40
3:B:624:ALA:CB	3:B:639:HIS:CD2	3.04	0.40
3:B:654:ILE:HG22	3:B:654:ILE:O	2.20	0.40
3:B:808:ASP:O	3:B:838:VAL:HG13	2.20	0.40
3:B:1046:LYS:O	3:B:1050:LEU:HD23	2.22	0.40
4:D:58:LEU:O	4:D:59:ALA:C	2.59	0.40
4:D:180:VAL:HG22	4:D:190:LEU:HG	2.00	0.40
5:E:42:LEU:HD23	5:E:42:LEU:N	2.36	0.40
1:Q:16:PRO:HD3	1:Q:203:ARG:HH22	1.86	0.40
1:Q:215:PRO:O	1:Q:216:PRO:O	2.39	0.40
1:Q:562:PHE:CD2	1:Q:611:ILE:HG12	2.56	0.40

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:615:LEU:O	1:Q:619:TYR:HD1	2.04	0.40
2:G:65:ALA:HA	2:G:66:PRO:HD3	1.84	0.40
2:G:393:ILE:HB	5:T:19:GLY:HA2	2.03	0.40
3:R:323:ILE:HG13	3:R:324:GLU:N	2.36	0.40
3:R:483:ARG:HA	3:R:486:GLU:HG2	2.03	0.40
3:R:726:VAL:HG23	3:R:984:TYR:HD1	1.86	0.40
3:R:898:PRO:HB2	3:R:970:VAL:CG2	2.51	0.40
3:R:1051:ASP:HA	3:R:1055:ARG:HG2	2.02	0.40
4:S:35:TYR:O	4:S:149:TYR:HD2	2.04	0.40
4:S:45:TYR:HD1	11:Z:44:ILE:HG12	1.86	0.40
5:T:31:ARG:HG2	5:T:35:GLN:CD	2.41	0.40
5:T:175:ILE:HA	5:T:178:THR:OG1	2.21	0.40
9:X:6:LEU:HB2	9:X:14:GLU:O	2.21	0.40
11:Z:13:PHE:N	11:Z:13:PHE:HD1	2.19	0.40
1:A:176:THR:HA	1:A:177:PRO:HD3	1.88	0.40
1:A:388:LEU:O	1:A:389:ARG:C	2.59	0.40
1:A:474:ALA:C	1:A:476:ALA:H	2.24	0.40
1:A:540:LEU:HD23	1:A:540:LEU:HA	1.77	0.40
1:A:656:ASP:HA	1:A:659:LYS:CG	2.51	0.40
1:A:672:VAL:O	1:A:675:LEU:N	2.54	0.40
1:A:740:ILE:HD13	1:A:740:ILE:HA	1.95	0.40
1:A:782:ILE:HG13	1:A:794:GLU:HB3	2.02	0.40
3:B:87:LEU:HD22	3:B:851:LEU:HD11	2.03	0.40
3:B:91:THR:HA	3:B:155:ASN:N	2.35	0.40
3:B:191:SER:CB	3:B:298:LEU:HA	2.52	0.40
3:B:254:PRO:HG2	3:B:255:SER:H	1.86	0.40
3:B:402:ASN:O	3:B:403:TRP:CB	2.70	0.40
3:B:452:ARG:HG3	3:B:452:ARG:NH1	2.36	0.40
3:B:462:PRO:C	3:B:464:SER:N	2.75	0.40
3:B:474:ALA:HB3	3:B:578:PRO:HD3	2.04	0.40
3:B:935:LEU:HD21	10:N:43:TYR:HD2	1.85	0.40
3:B:1098:LYS:C	3:B:1098:LYS:HD3	2.41	0.40
6:F:31:SER:HA	6:F:35:GLN:NE2	2.30	0.40
1:Q:24:VAL:HG22	1:Q:72:PHE:O	2.20	0.40
1:Q:84:VAL:HG11	1:Q:281:ILE:HD12	2.03	0.40
1:Q:380:ARG:C	1:Q:382:ASP:H	2.23	0.40
1:Q:470:GLU:O	1:Q:473:ILE:HD11	2.21	0.40
2:G:25:PRO:HG3	2:G:33:LYS:NZ	2.37	0.40
2:G:65:ALA:CB	8:W:19:PHE:HE1	2.35	0.40
2:G:106:ARG:HH11	2:G:106:ARG:CG	2.35	0.40
2:G:118:SER:O	2:G:119:THR:CB	2.69	0.40

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:131:LYS:HD3	2:G:248:GLU:HB3	2.02	0.40
2:G:135:ASP:O	2:G:137:ALA:N	2.54	0.40
2:G:269:VAL:O	7:V:14:HIS:CG	2.75	0.40
2:G:286:ILE:O	2:G:289:ALA:N	2.50	0.40
2:G:352:LYS:O	2:G:353:HIS:C	2.59	0.40
2:G:379:ILE:H	2:G:379:ILE:CD1	2.31	0.40
3:R:92:TYR:O	3:R:92:TYR:HD2	2.05	0.40
3:R:707:ALA:HA	3:R:710:ILE:HD12	2.03	0.40
3:R:738:ILE:CG1	3:R:739:ILE:N	2.84	0.40
3:R:771:ASP:OD1	3:R:816:PRO:HG3	2.20	0.40
3:R:1066:TYR:HB3	3:R:1105:MET:CE	2.51	0.40
3:R:1069:TRP:NE1	3:R:1088:LEU:CB	2.80	0.40
3:R:1069:TRP:HE3	3:R:1070:TYR:O	2.04	0.40
4:S:78:TRP:O	4:S:80:GLU:N	2.54	0.40
5:T:70:VAL:HG12	5:T:71:GLU:N	2.35	0.40
6:U:3:SER:O	6:U:4:VAL:CG2	2.69	0.40
8:W:54:ASN:ND2	8:W:58:SER:HB2	2.36	0.40
1:A:4:LYS:NZ	3:B:1060:VAL:HB	2.36	0.40
1:A:15:SER:CA	1:A:203:ARG:NH2	2.80	0.40
1:A:30:PRO:HG3	1:A:247:GLU:OE1	2.22	0.40
1:A:82:ILE:HD11	1:A:90:ILE:CD1	2.52	0.40
1:A:249:LEU:HD23	1:A:249:LEU:HA	1.92	0.40
1:A:567:ASN:ND2	1:A:731:THR:CA	2.84	0.40
1:A:782:ILE:N	1:A:782:ILE:CD1	2.83	0.40
1:A:796:PHE:CE1	3:B:445:LEU:HD13	2.56	0.40
1:A:856:PHE:H	2:C:64:ILE:CG2	2.34	0.40
1:A:859:TYR:CD1	2:C:64:ILE:HG23	2.56	0.40
3:B:9:GLU:O	3:B:10:ARG:C	2.59	0.40
3:B:71:ARG:HG2	3:B:74:ASP:HB3	2.03	0.40
3:B:83:MET:HE3	3:B:686:LEU:HB2	2.02	0.40
3:B:97:TRP:HZ3	3:B:113:GLU:CB	2.34	0.40
3:B:154:VAL:O	3:B:155:ASN:C	2.60	0.40
3:B:657:TYR:N	3:B:658:PRO:CD	2.84	0.40
3:B:1061:CYS:HA	3:B:1088:LEU:CD2	2.50	0.40
4:D:86:THR:O	4:D:87:GLU:CB	2.69	0.40
5:E:90:LEU:CD1	5:E:100:ASN:HB2	2.52	0.40
5:E:135:VAL:N	5:E:174:TRP:HZ2	2.08	0.40
7:H:39:PRO:HB3	7:H:80:TYR:CE2	2.57	0.40
10:N:30:ASN:O	10:N:31:PRO:C	2.60	0.40
1:Q:13:ILE:HD12	1:Q:207:MET:HG2	2.03	0.40
1:Q:247:GLU:O	1:Q:251:GLU:HG3	2.20	0.40

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:273:VAL:O	1:Q:276:TYR:HB3	2.22	0.40
1:Q:326:ILE:HG21	1:Q:462:MET:CG	2.51	0.40
1:Q:589:LYS:O	1:Q:592:ILE:CB	2.70	0.40
1:Q:668:ALA:O	1:Q:671:GLU:N	2.55	0.40
1:Q:681:ASN:O	1:Q:683:GLU:N	2.54	0.40
1:Q:710:THR:O	1:Q:710:THR:HG22	2.20	0.40
1:Q:795:LEU:O	1:Q:795:LEU:HD23	2.21	0.40
2:G:317:ALA:C	2:G:319:VAL:N	2.74	0.40
3:R:145:PRO:C	3:R:147:ASP:N	2.74	0.40
3:R:369:LEU:HD21	3:R:379:LEU:CD2	2.51	0.40
3:R:375:ARG:H	3:R:375:ARG:HG3	1.70	0.40
3:R:579:LEU:CD1	3:R:616:LEU:HD12	2.41	0.40
3:R:726:VAL:HG23	3:R:984:TYR:CD1	2.56	0.40
3:R:795:ASN:ND2	11:Z:36:MET:HE1	2.36	0.40
4:S:171:GLU:C	4:S:172:ILE:HD12	2.40	0.40
4:S:217:ILE:N	4:S:217:ILE:CD1	2.81	0.40
8:W:25:ASN:O	8:W:26:ARG:O	2.39	0.40
10:Y:22:ILE:CD1	10:Y:23:THR:H	2.34	0.40
10:Y:54:ASP:OD2	10:Y:54:ASP:C	2.60	0.40
1:A:432:ALA:HB3	1:A:481:LEU:HA	2.04	0.40
1:A:488:THR:HG22	1:A:490:ARG:N	2.35	0.40
1:A:853:ASP:OD2	2:C:311:ARG:NH1	2.54	0.40
2:C:103:GLY:O	2:C:104:LEU:CB	2.69	0.40
2:C:126:LEU:HD11	2:C:249:TYR:CB	2.50	0.40
2:C:286:ILE:O	2:C:289:ALA:N	2.54	0.40
3:B:63:ILE:HG13	3:B:98:LEU:CD2	2.47	0.40
3:B:183:ILE:HB	3:B:208:GLY:N	2.35	0.40
3:B:325:LEU:CD1	3:B:331:GLU:H	2.34	0.40
3:B:450:TRP:O	3:B:450:TRP:CE3	2.75	0.40
3:B:1050:LEU:CD2	3:B:1051:ASP:N	2.81	0.40
4:D:260:LEU:C	4:D:260:LEU:HD23	2.41	0.40
5:E:14:PRO:HA	5:E:15:PRO:HD3	1.89	0.40
5:E:17:GLU:CD	5:E:25:ILE:HD12	2.42	0.40
5:E:64:GLY:O	8:K:42:GLN:HG3	2.21	0.40
5:E:67:TYR:CD1	5:E:67:TYR:N	2.88	0.40
7:H:35:LEU:HD23	7:H:35:LEU:HA	1.94	0.40
8:K:54:ASN:ND2	8:K:58:SER:CB	2.84	0.40
10:N:20:SER:H	10:N:22:ILE:CD1	2.34	0.40
10:N:43:TYR:CD1	10:N:43:TYR:C	2.94	0.40
1:Q:432:ALA:HB3	1:Q:480:MET:C	2.41	0.40
1:Q:463:ASN:ND2	3:R:1026:LEU:HD13	2.37	0.40

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:491:TYR:OH	2:G:81:PRO:HG3	2.21	0.40
1:Q:548:GLY:O	1:Q:550:GLN:N	2.54	0.40
1:Q:552:ILE:HD12	1:Q:553:SER:N	2.37	0.40
1:Q:618:GLU:O	1:Q:619:TYR:CG	2.75	0.40
1:Q:656:ASP:HA	1:Q:659:LYS:CG	2.51	0.40
1:Q:715:ALA:C	1:Q:717:LYS:N	2.75	0.40
2:G:104:LEU:C	2:G:104:LEU:HD23	2.41	0.40
2:G:131:LYS:HD3	2:G:248:GLU:CG	2.51	0.40
2:G:249:TYR:HD1	2:G:249:TYR:H	1.68	0.40
2:G:386:VAL:CG1	8:W:34:ARG:HB2	2.51	0.40
3:R:24:VAL:HG21	3:R:426:LEU:CD1	2.50	0.40
3:R:91:THR:HA	3:R:155:ASN:N	2.36	0.40
3:R:162:VAL:HG23	3:R:428:ARG:O	2.21	0.40
3:R:182:ASN:N	3:R:182:ASN:ND2	2.67	0.40
3:R:433:LEU:HD12	3:R:435:ARG:NH2	2.37	0.40
3:R:536:LEU:HD21	3:R:540:ILE:HD11	2.03	0.40
3:R:644:SER:HB2	3:R:645:PRO:HD3	2.03	0.40
3:R:700:ARG:HE	3:R:939:ILE:CD1	2.34	0.40
3:R:721:ASN:HD22	10:Y:51:SER:CB	2.34	0.40
3:R:994:HIS:CD2	3:R:994:HIS:H	2.39	0.40
3:R:1013:THR:HA	3:R:1099:LEU:HD11	2.03	0.40
5:T:124:ARG:NH2	5:T:137:GLN:OE1	2.53	0.40
6:U:72:LEU:HD21	6:U:86:ILE:HG21	2.03	0.40
7:V:15:TYR:HD2	7:V:16:LEU:HD11	1.84	0.40
7:V:79:ARG:O	7:V:80:TYR:HB2	2.21	0.40
8:W:49:ALA:O	8:W:50:LEU:C	2.59	0.40
8:W:91:SER:O	8:W:92:LEU:HB3	2.20	0.40
1:A:47:PRO:CG	1:A:48:ARG:HD3	2.47	0.40
1:A:75:ILE:HD13	1:A:214:VAL:CG2	2.51	0.40
1:A:199:PRO:C	1:A:201:THR:H	2.25	0.40
1:A:290:ARG:C	1:A:292:GLY:N	2.74	0.40
1:A:352:ARG:HB3	1:A:406:ILE:HD13	2.03	0.40
1:A:426:HIS:O	1:A:429:SER:HB2	2.21	0.40
1:A:503:ILE:O	1:A:503:ILE:HG13	2.21	0.40
1:A:530:VAL:O	1:A:532:ILE:N	2.55	0.40
1:A:590:ASN:HD21	3:R:377:ARG:HB2	1.76	0.40
1:A:763:THR:HG22	1:A:772:TYR:HA	2.03	0.40
2:C:317:ALA:C	2:C:319:VAL:N	2.75	0.40
3:B:50:PRO:HG2	3:B:51:THR:N	2.29	0.40
3:B:146:LYS:HD2	10:N:58:GLU:OE2	2.21	0.40
3:B:165:GLU:OE2	3:B:338:TYR:OH	2.34	0.40

*Continued on next page...*

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:461:GLY:HA3	3:B:462:PRO:HD3	1.95	0.40
3:B:729:PHE:C	3:B:731:GLY:N	2.73	0.40
3:B:839:THR:O	3:B:840:ARG:C	2.59	0.40
3:B:855:THR:HB	3:B:857:GLU:CB	2.52	0.40
3:B:1064:CYS:O	3:B:1066:TYR:N	2.55	0.40
4:D:13:ILE:CD1	4:D:239:GLU:N	2.84	0.40
4:D:116:SER:O	4:D:118:ASP:N	2.55	0.40
5:E:179:LYS:CE	6:F:82:GLU:HG3	2.51	0.40
6:F:21:LEU:HA	6:F:24:VAL:CG2	2.51	0.40
9:L:60:ASP:CG	9:L:60:ASP:O	2.60	0.40
11:P:13:PHE:N	11:P:13:PHE:HD1	2.19	0.40
11:P:27:PRO:O	11:P:28:TYR:HB2	2.20	0.40
1:Q:490:ARG:NH1	2:G:80:GLU:HG3	2.36	0.40
1:Q:738:LEU:H	1:Q:738:LEU:CD2	2.35	0.40
1:Q:831:ARG:NH2	2:G:385:MET:SD	2.95	0.40
1:Q:864:LYS:O	2:G:32:LEU:CD1	2.69	0.40
2:G:379:ILE:CD1	3:R:1042:ALA:HA	2.43	0.40
3:R:9:GLU:HA	3:R:592:GLU:OE1	2.21	0.40
3:R:37:ASN:O	3:R:41:GLU:HG3	2.22	0.40
3:R:94:ALA:HB2	3:R:121:ILE:CG1	2.51	0.40
3:R:223:PHE:CE2	3:R:256:LEU:HD13	2.56	0.40
3:R:855:THR:O	3:R:858:GLY:N	2.55	0.40
3:R:932:TYR:CE1	3:R:936:SER:CB	3.04	0.40
3:R:952:GLN:O	3:R:955:ASN:N	2.53	0.40
3:R:983:ILE:O	3:R:984:TYR:C	2.59	0.40
3:R:1033:ARG:O	3:R:1037:ILE:HG13	2.21	0.40
4:S:18:GLU:CG	4:S:225:LYS:HG2	2.51	0.40
4:S:22:LEU:HD22	4:S:166:TYR:HE1	1.87	0.40
5:T:53:THR:CG2	5:T:70:VAL:HA	2.51	0.40
7:V:15:TYR:HB3	7:V:16:LEU:H	1.65	0.40

There are no symmetry-related clashes.

## 5.3 Torsion angles

### 5.3.1 Protein backbone

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	768/880 (87%)	513 (67%)	136 (18%)	119 (16%)	0	0
1	Q	768/880 (87%)	509 (66%)	141 (18%)	118 (15%)	0	0
2	C	273/392 (70%)	158 (58%)	66 (24%)	49 (18%)	0	0
2	G	273/392 (70%)	161 (59%)	61 (22%)	51 (19%)	0	0
3	B	1084/1124 (96%)	698 (64%)	238 (22%)	148 (14%)	0	1
3	R	1084/1124 (96%)	698 (64%)	237 (22%)	149 (14%)	0	1
4	D	262/265 (99%)	166 (63%)	69 (26%)	27 (10%)	0	3
4	S	262/265 (99%)	167 (64%)	66 (25%)	29 (11%)	0	3
5	E	172/180 (96%)	123 (72%)	31 (18%)	18 (10%)	0	3
5	T	172/180 (96%)	122 (71%)	32 (19%)	18 (10%)	0	3
6	F	87/113 (77%)	56 (64%)	22 (25%)	9 (10%)	0	3
6	U	87/113 (77%)	56 (64%)	23 (26%)	8 (9%)	1	4
7	H	72/84 (86%)	46 (64%)	13 (18%)	13 (18%)	0	0
7	V	72/84 (86%)	44 (61%)	15 (21%)	13 (18%)	0	0
8	K	80/95 (84%)	44 (55%)	19 (24%)	17 (21%)	0	0
8	W	80/95 (84%)	44 (55%)	20 (25%)	16 (20%)	0	0
9	L	90/92 (98%)	64 (71%)	19 (21%)	7 (8%)	1	6
9	X	90/92 (98%)	66 (73%)	17 (19%)	7 (8%)	1	6
10	N	62/66 (94%)	30 (48%)	18 (29%)	14 (23%)	0	0
10	Y	62/66 (94%)	31 (50%)	18 (29%)	13 (21%)	0	0
11	P	41/48 (85%)	24 (58%)	10 (24%)	7 (17%)	0	0
11	Z	41/48 (85%)	23 (56%)	11 (27%)	7 (17%)	0	0
All	All	5982/6678 (90%)	3843 (64%)	1282 (21%)	857 (14%)	0	1

All (857) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	56	GLN
1	A	58	CYS
1	A	64	THR
1	A	65	LEU
1	A	194	ILE
1	A	207	MET

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
1	A	216	PRO
1	A	259	GLN
1	A	287	SER
1	A	295	LEU
1	A	298	LEU
1	A	303	LYS
1	A	377	TYR
1	A	387	ASP
1	A	392	LYS
1	A	403	PRO
1	A	447	LEU
1	A	454	ASN
1	A	506	ALA
1	A	514	THR
1	A	528	ALA
1	A	529	ASP
1	A	530	VAL
1	A	532	ILE
1	A	534	LEU
1	A	541	ALA
1	A	584	SER
1	A	595	GLU
1	A	608	PRO
1	A	733	ALA
1	A	746	MET
1	A	759	ARG
1	A	764	ARG
1	A	826	ALA
1	A	842	TYR
1	A	864	LYS
1	A	876	VAL
2	C	38	ASN
2	C	42	ILE
2	C	48	ILE
2	C	60	SER
2	C	66	PRO
2	C	104	LEU
2	C	113	ALA
2	C	126	LEU
2	C	128	ASP
2	C	130	TYR
2	C	145	GLU

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
2	C	248	GLU
2	C	281	GLU
2	C	306	LEU
2	C	353	HIS
2	C	362	ASP
2	C	365	GLU
2	C	390	MET
2	C	391	ARG
2	C	393	ILE
3	B	47	GLY
3	B	50	PRO
3	B	97	TRP
3	B	110	GLU
3	B	111	PRO
3	B	112	GLU
3	B	158	GLU
3	B	171	ARG
3	B	184	THR
3	B	210	PHE
3	B	242	VAL
3	B	297	PHE
3	B	303	THR
3	B	325	LEU
3	B	331	GLU
3	B	372	SER
3	B	378	LYS
3	B	402	ASN
3	B	403	TRP
3	B	448	THR
3	B	473	MET
3	B	482	GLU
3	B	483	ARG
3	B	530	TYR
3	B	534	GLY
3	B	571	ASP
3	B	587	PRO
3	B	590	THR
3	B	602	ILE
3	B	618	ALA
3	B	635	PRO
3	B	691	ARG
3	B	769	GLN

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
3	B	770	GLU
3	B	790	ARG
3	B	800	PRO
3	B	801	GLU
3	B	814	VAL
3	B	933	ALA
3	B	945	PHE
3	B	946	TYR
3	B	966	ALA
3	B	983	ILE
3	B	1030	GLU
3	B	1056	THR
3	B	1071	ASP
3	B	1077	TYR
3	B	1081	ILE
3	B	1082	HIS
3	B	1111	PRO
3	B	1114	VAL
4	D	35	TYR
4	D	72	ALA
4	D	103	PRO
4	D	125	SER
4	D	135	THR
4	D	152	GLU
4	D	154	ALA
4	D	162	SER
4	D	177	GLU
4	D	195	LEU
4	D	196	SER
4	D	203	CYS
4	D	205	LEU
5	E	22	LEU
5	E	39	LEU
5	E	81	VAL
5	E	82	GLN
5	E	123	VAL
5	E	146	VAL
5	E	148	SER
5	E	151	SER
7	H	13	ILE
7	H	25	ILE
7	H	28	ALA

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
7	H	56	ASN
8	K	26	ARG
8	K	27	LEU
8	K	47	ALA
8	K	50	LEU
8	K	51	ILE
8	K	58	SER
8	K	60	ASP
8	K	61	VAL
9	L	28	ILE
9	L	39	SER
10	N	19	GLN
10	N	20	SER
10	N	29	GLU
10	N	48	MET
10	N	60	ILE
10	N	61	HIS
11	P	25	ARG
1	Q	56	GLN
1	Q	58	CYS
1	Q	64	THR
1	Q	65	LEU
1	Q	194	ILE
1	Q	207	MET
1	Q	216	PRO
1	Q	259	GLN
1	Q	287	SER
1	Q	295	LEU
1	Q	298	LEU
1	Q	303	LYS
1	Q	356	TRP
1	Q	377	TYR
1	Q	387	ASP
1	Q	392	LYS
1	Q	403	PRO
1	Q	447	LEU
1	Q	454	ASN
1	Q	506	ALA
1	Q	514	THR
1	Q	528	ALA
1	Q	529	ASP
1	Q	530	VAL

*Continued on next page...*



*Continued from previous page...*

Mol	Chain	Res	Type
1	Q	532	ILE
1	Q	534	LEU
1	Q	541	ALA
1	Q	584	SER
1	Q	595	GLU
1	Q	608	PRO
1	Q	645	THR
1	Q	733	ALA
1	Q	746	MET
1	Q	759	ARG
1	Q	764	ARG
1	Q	826	ALA
1	Q	842	TYR
1	Q	864	LYS
1	Q	876	VAL
2	G	38	ASN
2	G	42	ILE
2	G	48	ILE
2	G	60	SER
2	G	66	PRO
2	G	104	LEU
2	G	113	ALA
2	G	126	LEU
2	G	128	ASP
2	G	145	GLU
2	G	248	GLU
2	G	281	GLU
2	G	306	LEU
2	G	353	HIS
2	G	362	ASP
2	G	365	GLU
2	G	390	MET
2	G	391	ARG
2	G	393	ILE
3	R	47	GLY
3	R	50	PRO
3	R	97	TRP
3	R	109	ALA
3	R	110	GLU
3	R	111	PRO
3	R	112	GLU
3	R	158	GLU

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
3	R	171	ARG
3	R	184	THR
3	R	210	PHE
3	R	242	VAL
3	R	297	PHE
3	R	303	THR
3	R	325	LEU
3	R	331	GLU
3	R	372	SER
3	R	378	LYS
3	R	402	ASN
3	R	403	TRP
3	R	473	MET
3	R	482	GLU
3	R	483	ARG
3	R	530	TYR
3	R	571	ASP
3	R	587	PRO
3	R	590	THR
3	R	602	ILE
3	R	618	ALA
3	R	635	PRO
3	R	691	ARG
3	R	769	GLN
3	R	770	GLU
3	R	789	TYR
3	R	790	ARG
3	R	800	PRO
3	R	801	GLU
3	R	814	VAL
3	R	933	ALA
3	R	945	PHE
3	R	946	TYR
3	R	966	ALA
3	R	983	ILE
3	R	1030	GLU
3	R	1056	THR
3	R	1071	ASP
3	R	1077	TYR
3	R	1081	ILE
3	R	1082	HIS
3	R	1111	PRO

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
3	R	1114	VAL
4	S	35	TYR
4	S	72	ALA
4	S	103	PRO
4	S	125	SER
4	S	135	THR
4	S	152	GLU
4	S	154	ALA
4	S	162	SER
4	S	177	GLU
4	S	195	LEU
4	S	196	SER
4	S	203	CYS
4	S	205	LEU
5	T	22	LEU
5	T	23	ASN
5	T	39	LEU
5	T	81	VAL
5	T	82	GLN
5	T	123	VAL
5	T	146	VAL
5	T	148	SER
5	T	151	SER
7	V	13	ILE
7	V	25	ILE
7	V	28	ALA
8	W	26	ARG
8	W	27	LEU
8	W	47	ALA
8	W	50	LEU
8	W	51	ILE
8	W	58	SER
8	W	60	ASP
8	W	61	VAL
9	X	28	ILE
9	X	39	SER
10	Y	19	GLN
10	Y	20	SER
10	Y	29	GLU
10	Y	48	MET
10	Y	60	ILE
10	Y	61	HIS

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
1	A	23	SER
1	A	24	VAL
1	A	27	ILE
1	A	47	PRO
1	A	66	GLY
1	A	255	ALA
1	A	282	PRO
1	A	283	GLY
1	A	307	GLY
1	A	355	PRO
1	A	356	TRP
1	A	358	ILE
1	A	376	ASN
1	A	391	VAL
1	A	426	HIS
1	A	482	VAL
1	A	508	LEU
1	A	537	PRO
1	A	543	ARG
1	A	558	LYS
1	A	585	TYR
1	A	605	ASN
1	A	645	THR
1	A	682	GLY
1	A	684	LEU
1	A	691	THR
1	A	724	PHE
1	A	731	THR
1	A	786	PHE
1	A	805	GLY
1	A	829	ASP
1	A	841	LEU
1	A	852	ASP
1	A	877	GLY
2	C	28	ILE
2	C	30	ASP
2	C	44	THR
2	C	45	ARG
2	C	50	LYS
2	C	249	TYR
2	C	264	VAL
2	C	330	GLY

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
2	C	337	GLU
2	C	360	ARG
2	C	364	GLU
2	C	367	LYS
2	C	368	GLY
3	B	21	LYS
3	B	23	LEU
3	B	55	GLY
3	B	71	ARG
3	B	105	ASN
3	B	109	ALA
3	B	166	ASP
3	B	179	THR
3	B	185	HIS
3	B	223	PHE
3	B	231	GLY
3	B	251	GLU
3	B	281	LYS
3	B	292	ILE
3	B	328	GLY
3	B	332	PRO
3	B	338	TYR
3	B	347	GLY
3	B	373	LYS
3	B	445	LEU
3	B	462	PRO
3	B	463	ASN
3	B	479	GLY
3	B	497	VAL
3	B	574	ARG
3	B	617	ASP
3	B	659	GLU
3	B	663	SER
3	B	684	TYR
3	B	730	THR
3	B	736	ASP
3	B	767	GLY
3	B	785	GLY
3	B	789	TYR
3	B	793	GLU
3	B	806	GLY
3	B	840	ARG

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
3	B	919	MET
3	B	921	LEU
3	B	951	GLU
3	B	1095	TYR
3	B	1118	LYS
4	D	8	LYS
4	D	17	PHE
4	D	174	ALA
4	D	178	LYS
4	D	223	GLU
5	E	23	ASN
5	E	32	GLN
5	E	52	LYS
6	F	42	ASN
7	H	48	SER
7	H	55	ILE
7	H	80	TYR
7	H	81	VAL
8	K	13	LEU
9	L	44	TYR
9	L	62	SER
10	N	15	ALA
10	N	63	THR
11	P	18	LEU
11	P	20	VAL
11	P	34	ILE
1	Q	23	SER
1	Q	24	VAL
1	Q	27	ILE
1	Q	47	PRO
1	Q	66	GLY
1	Q	255	ALA
1	Q	282	PRO
1	Q	283	GLY
1	Q	307	GLY
1	Q	355	PRO
1	Q	358	ILE
1	Q	376	ASN
1	Q	391	VAL
1	Q	426	HIS
1	Q	482	VAL
1	Q	483	HIS

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
1	Q	508	LEU
1	Q	537	PRO
1	Q	543	ARG
1	Q	558	LYS
1	Q	585	TYR
1	Q	605	ASN
1	Q	610	SER
1	Q	682	GLY
1	Q	684	LEU
1	Q	724	PHE
1	Q	731	THR
1	Q	742	GLN
1	Q	786	PHE
1	Q	805	GLY
1	Q	841	LEU
1	Q	877	GLY
2	G	28	ILE
2	G	30	ASP
2	G	44	THR
2	G	50	LYS
2	G	130	TYR
2	G	249	TYR
2	G	330	GLY
2	G	337	GLU
2	G	360	ARG
2	G	364	GLU
2	G	367	LYS
2	G	368	GLY
3	R	21	LYS
3	R	23	LEU
3	R	55	GLY
3	R	71	ARG
3	R	105	ASN
3	R	179	THR
3	R	185	HIS
3	R	223	PHE
3	R	231	GLY
3	R	251	GLU
3	R	281	LYS
3	R	292	ILE
3	R	328	GLY
3	R	332	PRO

*Continued on next page...*



*Continued from previous page...*

Mol	Chain	Res	Type
3	R	338	TYR
3	R	347	GLY
3	R	448	THR
3	R	462	PRO
3	R	463	ASN
3	R	479	GLY
3	R	497	VAL
3	R	534	GLY
3	R	574	ARG
3	R	598	GLU
3	R	617	ASP
3	R	663	SER
3	R	684	TYR
3	R	730	THR
3	R	736	ASP
3	R	767	GLY
3	R	785	GLY
3	R	793	GLU
3	R	806	GLY
3	R	840	ARG
3	R	919	MET
3	R	921	LEU
3	R	1065	GLY
3	R	1095	TYR
3	R	1118	LYS
4	S	17	PHE
4	S	174	ALA
4	S	178	LYS
4	S	223	GLU
5	T	32	GLN
5	T	52	LYS
6	U	42	ASN
7	V	55	ILE
7	V	56	ASN
7	V	80	TYR
7	V	81	VAL
8	W	13	LEU
8	W	15	PHE
8	W	29	ARG
8	W	71	ARG
9	X	44	TYR
9	X	48	PRO

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
9	X	62	SER
10	Y	15	ALA
10	Y	63	THR
11	Z	18	LEU
11	Z	20	VAL
11	Z	25	ARG
11	Z	34	ILE
1	A	76	GLU
1	A	95	LYS
1	A	483	HIS
1	A	531	LYS
1	A	551	VAL
1	A	610	SER
1	A	614	TRP
1	A	688	PRO
1	A	742	GLN
1	A	749	GLN
1	A	779	ARG
1	A	862	HIS
1	A	865	THR
2	C	115	LYS
2	C	117	PRO
2	C	136	LYS
2	C	274	THR
2	C	275	ASN
3	B	30	SER
3	B	103	VAL
3	B	146	LYS
3	B	182	ASN
3	B	246	PRO
3	B	264	ASN
3	B	310	LYS
3	B	346	ALA
3	B	355	ARG
3	B	449	GLN
3	B	598	GLU
3	B	605	ASP
3	B	634	THR
3	B	670	SER
3	B	708	LEU
3	B	779	GLY
3	B	798	VAL

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
3	B	950	ILE
3	B	972	ASP
3	B	973	GLY
3	B	1065	GLY
3	B	1080	PRO
3	B	1084	ASP
4	D	55	ASP
4	D	79	PRO
4	D	91	LYS
4	D	124	ILE
4	D	206	CYS
5	E	116	ASP
6	F	7	VAL
6	F	17	ALA
6	F	58	GLU
6	F	64	SER
7	H	29	TYR
8	K	15	PHE
8	K	29	ARG
8	K	71	ARG
9	L	48	PRO
9	L	50	SER
10	N	40	VAL
1	Q	76	GLU
1	Q	388	LEU
1	Q	531	LYS
1	Q	688	PRO
1	Q	691	THR
1	Q	749	GLN
1	Q	765	THR
1	Q	779	ARG
1	Q	829	ASP
1	Q	852	ASP
1	Q	865	THR
2	G	45	ARG
2	G	61	GLU
2	G	115	LYS
2	G	117	PRO
2	G	264	VAL
2	G	275	ASN
3	R	30	SER
3	R	103	VAL

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
3	R	146	LYS
3	R	166	ASP
3	R	182	ASN
3	R	246	PRO
3	R	264	ASN
3	R	310	LYS
3	R	346	ALA
3	R	373	LYS
3	R	445	LEU
3	R	449	GLN
3	R	605	ASP
3	R	634	THR
3	R	659	GLU
3	R	670	SER
3	R	708	LEU
3	R	779	GLY
3	R	903	GLY
3	R	950	ILE
3	R	951	GLU
3	R	972	ASP
3	R	973	GLY
3	R	1080	PRO
4	S	8	LYS
4	S	91	LYS
4	S	124	ILE
4	S	206	CYS
5	T	116	ASP
6	U	7	VAL
6	U	17	ALA
6	U	64	SER
7	V	29	TYR
7	V	74	GLU
8	W	16	ASN
9	X	50	SER
10	Y	40	VAL
1	A	235	LEU
1	A	333	SER
1	A	388	LEU
1	A	394	ARG
1	A	423	PRO
1	A	524	ILE
1	A	609	GLU

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
1	A	626	TRP
1	A	721	PRO
1	A	760	GLY
1	A	765	THR
2	C	61	GLU
2	C	67	GLY
2	C	239	ARG
2	C	324	GLY
2	C	392	PRO
3	B	34	PHE
3	B	74	ASP
3	B	299	PRO
3	B	418	ASN
3	B	433	LEU
3	B	550	SER
3	B	560	THR
3	B	759	SER
3	B	781	ARG
3	B	915	LEU
3	B	979	ILE
3	B	1053	SER
4	D	117	GLU
4	D	207	GLU
5	E	88	GLU
5	E	133	LYS
6	F	4	VAL
7	H	74	GLU
8	K	16	ASN
8	K	34	ARG
8	K	62	ILE
10	N	32	GLY
1	Q	95	LYS
1	Q	220	ARG
1	Q	235	LEU
1	Q	333	SER
1	Q	394	ARG
1	Q	551	VAL
1	Q	609	GLU
1	Q	626	TRP
1	Q	721	PRO
1	Q	760	GLY
2	G	136	LYS

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
2	G	239	ARG
2	G	274	THR
2	G	282	GLU
2	G	298	SER
2	G	392	PRO
3	R	74	ASP
3	R	299	PRO
3	R	306	GLU
3	R	355	ARG
3	R	418	ASN
3	R	433	LEU
3	R	457	GLU
3	R	560	THR
3	R	759	SER
3	R	781	ARG
3	R	798	VAL
3	R	915	LEU
3	R	1084	ASP
4	S	55	ASP
4	S	79	PRO
4	S	117	GLU
4	S	207	GLU
5	T	133	LYS
5	T	137	GLN
6	U	4	VAL
6	U	58	GLU
7	V	48	SER
10	Y	18	TRP
10	Y	23	THR
10	Y	32	GLY
1	A	80	PRO
1	A	196	GLY
1	A	220	ARG
1	A	332	ILE
1	A	369	PRO
1	A	533	ASP
1	A	599	ASP
1	A	607	GLN
1	A	617	LYS
1	A	644	PHE
1	A	788	THR
1	A	822	ARG

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
1	A	875	VAL
2	C	129	GLU
2	C	282	GLU
2	C	298	SER
3	B	98	LEU
3	B	124	LYS
3	B	306	GLU
3	B	868	ASP
3	B	912	PRO
3	B	944	PRO
5	E	124	ARG
5	E	137	GLN
5	E	142	VAL
6	F	43	SER
6	F	76	CYS
7	H	15	TYR
8	K	20	ILE
10	N	6	ARG
10	N	23	THR
10	N	41	LYS
1	Q	80	PRO
1	Q	196	GLY
1	Q	332	ILE
1	Q	423	PRO
1	Q	524	ILE
1	Q	533	ASP
1	Q	583	ASP
1	Q	599	ASP
1	Q	607	GLN
1	Q	614	TRP
1	Q	617	LYS
1	Q	644	PHE
1	Q	788	THR
1	Q	862	HIS
2	G	14	GLU
2	G	67	GLY
2	G	129	GLU
2	G	279	GLU
3	R	868	ASP
3	R	912	PRO
3	R	944	PRO
3	R	979	ILE

*Continued on next page...*



*Continued from previous page...*

Mol	Chain	Res	Type
3	R	1001	LEU
3	R	1053	SER
5	T	88	GLU
5	T	124	ARG
5	T	142	VAL
6	U	76	CYS
7	V	15	TYR
8	W	20	ILE
8	W	34	ARG
10	Y	6	ARG
1	A	209	LEU
1	A	583	ASP
1	A	686	PRO
2	C	300	VAL
3	B	404	VAL
5	E	125	GLY
6	F	34	LEU
7	H	11	PRO
8	K	54	ASN
9	L	38	VAL
10	N	18	TRP
1	Q	209	LEU
1	Q	369	PRO
1	Q	686	PRO
1	Q	781	PHE
1	Q	875	VAL
2	G	324	GLY
3	R	404	VAL
3	R	477	ALA
3	R	1048	ARG
4	S	73	LEU
4	S	87	GLU
5	T	125	GLY
6	U	60	SER
7	V	11	PRO
1	A	404	GLY
2	C	119	THR
3	B	406	GLY
7	H	10	ASP
11	P	26	CYS
1	Q	404	GLY
2	G	119	THR

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
2	G	300	VAL
3	R	401	GLY
3	R	780	VAL
3	R	916	PRO
7	V	10	ASP
8	W	62	ILE
1	A	53	GLU
3	B	589	VAL
3	B	657	TYR
3	B	780	VAL
3	B	916	PRO
4	D	238	PRO
1	Q	16	PRO
1	Q	54	PRO
3	R	589	VAL
3	R	657	TYR
3	R	1016	PRO
11	Z	26	CYS
1	A	54	PRO
1	A	372	TRP
1	A	767	PRO
2	C	116	VAL
3	B	76	GLY
3	B	401	GLY
3	B	703	VAL
4	D	119	PRO
1	Q	177	PRO
2	G	116	VAL
3	R	76	GLY
3	R	437	GLN
3	R	703	VAL
3	R	763	VAL
4	S	238	PRO
9	X	38	VAL
1	A	16	PRO
1	A	177	PRO
3	B	578	PRO
3	B	701	PRO
3	B	763	VAL
11	P	40	PRO
1	Q	50	GLY
1	Q	53	GLU

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
3	R	578	PRO
3	R	775	MET
11	Z	40	PRO
1	A	437	VAL
3	B	43	ILE
3	B	775	MET
1	Q	437	VAL
3	R	406	GLY
4	S	119	PRO
11	P	22	PRO
11	Z	22	PRO

### 5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	675/766 (88%)	580 (86%)	95 (14%)	3	13
1	Q	675/766 (88%)	583 (86%)	92 (14%)	3	14
2	C	237/338 (70%)	201 (85%)	36 (15%)	3	11
2	G	237/338 (70%)	199 (84%)	38 (16%)	2	10
3	B	937/965 (97%)	807 (86%)	130 (14%)	3	13
3	R	937/965 (97%)	810 (86%)	127 (14%)	3	14
4	D	241/242 (100%)	224 (93%)	17 (7%)	14	44
4	S	241/242 (100%)	223 (92%)	18 (8%)	13	41
5	E	156/159 (98%)	142 (91%)	14 (9%)	9	32
5	T	156/159 (98%)	142 (91%)	14 (9%)	9	32
6	F	82/106 (77%)	79 (96%)	3 (4%)	34	62
6	U	82/106 (77%)	79 (96%)	3 (4%)	34	62
7	H	67/75 (89%)	54 (81%)	13 (19%)	1	4
7	V	67/75 (89%)	55 (82%)	12 (18%)	2	6
8	K	72/84 (86%)	57 (79%)	15 (21%)	1	3

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
8	W	72/84 (86%)	57 (79%)	15 (21%)	1	3
9	L	81/81 (100%)	75 (93%)	6 (7%)	13	42
9	X	81/81 (100%)	75 (93%)	6 (7%)	13	42
10	N	58/60 (97%)	50 (86%)	8 (14%)	3	14
10	Y	58/60 (97%)	49 (84%)	9 (16%)	2	11
11	P	39/43 (91%)	31 (80%)	8 (20%)	1	3
11	Z	39/43 (91%)	31 (80%)	8 (20%)	1	3
All	All	5290/5838 (91%)	4603 (87%)	687 (13%)	4	16

All (687) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	30	PRO
1	A	45	MET
1	A	48	ARG
1	A	52	ILE
1	A	56	GLN
1	A	71	HIS
1	A	75	ILE
1	A	84	VAL
1	A	175	LEU
1	A	176	THR
1	A	179	ASP
1	A	203	ARG
1	A	219	ILE
1	A	232	GLU
1	A	238	LYS
1	A	239	LEU
1	A	253	ILE
1	A	278	ASP
1	A	282	PRO
1	A	287	SER
1	A	297	THR
1	A	298	LEU
1	A	301	ARG
1	A	306	GLU
1	A	308	ARG
1	A	312	ASN
1	A	313	LEU
1	A	314	SER

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
1	A	346	THR
1	A	349	VAL
1	A	356	TRP
1	A	366	ILE
1	A	369	PRO
1	A	376	ASN
1	A	377	TYR
1	A	378	VAL
1	A	410	HIS
1	A	421	ARG
1	A	425	LEU
1	A	427	ARG
1	A	428	ILE
1	A	434	ARG
1	A	438	LEU
1	A	439	LYS
1	A	446	ASN
1	A	464	LEU
1	A	471	GLU
1	A	481	LEU
1	A	487	ILE
1	A	500	GLN
1	A	503	ILE
1	A	507	TYR
1	A	518	LYS
1	A	525	LEU
1	A	537	PRO
1	A	546	TYR
1	A	550	GLN
1	A	558	LYS
1	A	559	ASP
1	A	573	ARG
1	A	574	LEU
1	A	593	LEU
1	A	597	VAL
1	A	608	PRO
1	A	612	LEU
1	A	622	GLU
1	A	633	ARG
1	A	637	ARG
1	A	641	LEU
1	A	642	GLN

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
1	A	656	ASP
1	A	662	TYR
1	A	675	LEU
1	A	684	LEU
1	A	687	ILE
1	A	692	LEU
1	A	702	ASP
1	A	705	ASP
1	A	708	ARG
1	A	714	ILE
1	A	723	ASN
1	A	755	GLU
1	A	759	ARG
1	A	764	ARG
1	A	777	GLU
1	A	781	PHE
1	A	787	ARG
1	A	797	PHE
1	A	803	ARG
1	A	821	ARG
1	A	823	LEU
1	A	828	SER
1	A	858	MET
1	A	859	TYR
1	A	871	ILE
2	C	36	ILE
2	C	37	LEU
2	C	38	ASN
2	C	43	VAL
2	C	45	ARG
2	C	57	LYS
2	C	70	ILE
2	C	83	THR
2	C	85	MET
2	C	104	LEU
2	C	107	LEU
2	C	116	VAL
2	C	132	ARG
2	C	133	ASP
2	C	146	TYR
2	C	239	ARG
2	C	275	ASN

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
2	C	276	ASN
2	C	310	ILE
2	C	311	ARG
2	C	315	LEU
2	C	318	ASP
2	C	320	MET
2	C	331	ARG
2	C	335	THR
2	C	337	GLU
2	C	344	ARG
2	C	351	VAL
2	C	360	ARG
2	C	364	GLU
2	C	370	VAL
2	C	379	ILE
2	C	380	LYS
2	C	381	LEU
2	C	390	MET
2	C	391	ARG
3	B	5	LEU
3	B	6	THR
3	B	33	ASP
3	B	64	ARG
3	B	65	ILE
3	B	83	MET
3	B	105	ASN
3	B	108	GLU
3	B	118	ASP
3	B	128	ASP
3	B	162	VAL
3	B	163	THR
3	B	171	ARG
3	B	183	ILE
3	B	193	THR
3	B	227	MET
3	B	245	ASP
3	B	296	TYR
3	B	313	TYR
3	B	322	VAL
3	B	327	LEU
3	B	332	PRO
3	B	348	ASP

*Continued on next page...*



*Continued from previous page...*

Mol	Chain	Res	Type
3	B	355	ARG
3	B	361	PHE
3	B	367	TYR
3	B	368	GLN
3	B	382	LYS
3	B	391	THR
3	B	394	ILE
3	B	404	VAL
3	B	407	ARG
3	B	416	ARG
3	B	418	ASN
3	B	429	VAL
3	B	453	MET
3	B	457	GLU
3	B	469	ASN
3	B	476	ILE
3	B	478	VAL
3	B	484	ILE
3	B	501	ILE
3	B	529	TYR
3	B	530	TYR
3	B	536	LEU
3	B	544	ARG
3	B	551	ASP
3	B	561	ASP
3	B	562	PHE
3	B	570	CYS
3	B	577	ARG
3	B	588	LEU
3	B	603	THR
3	B	606	ASP
3	B	608	VAL
3	B	625	TYR
3	B	628	LEU
3	B	634	THR
3	B	638	THR
3	B	643	TRP
3	B	644	SER
3	B	650	ILE
3	B	655	ILE
3	B	659	GLU
3	B	667	THR

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
3	B	669	GLN
3	B	672	MET
3	B	685	GLN
3	B	686	LEU
3	B	687	ARG
3	B	691	ARG
3	B	702	LEU
3	B	708	LEU
3	B	710	ILE
3	B	714	THR
3	B	715	ASN
3	B	770	GLU
3	B	781	ARG
3	B	783	TYR
3	B	787	GLU
3	B	788	TYR
3	B	789	TYR
3	B	794	ASP
3	B	800	PRO
3	B	850	VAL
3	B	867	ARG
3	B	874	ILE
3	B	890	MET
3	B	895	VAL
3	B	896	ASP
3	B	910	LEU
3	B	915	LEU
3	B	926	GLU
3	B	941	ASP
3	B	945	PHE
3	B	946	TYR
3	B	950	ILE
3	B	951	GLU
3	B	957	ILE
3	B	958	LEU
3	B	959	ARG
3	B	967	THR
3	B	975	THR
3	B	982	ARG
3	B	985	PHE
3	B	988	VAL
3	B	990	TYR

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
3	B	991	GLN
3	B	992	LYS
3	B	994	HIS
3	B	1000	LYS
3	B	1002	HIS
3	B	1004	ARG
3	B	1018	GLU
3	B	1026	LEU
3	B	1030	GLU
3	B	1031	MET
3	B	1033	ARG
3	B	1035	CYS
3	B	1039	PHE
3	B	1045	LEU
3	B	1049	LEU
3	B	1054	ASP
3	B	1057	MET
3	B	1062	ASP
3	B	1080	PRO
3	B	1097	PHE
3	B	1111	PRO
3	B	1113	LEU
3	B	1115	LEU
4	D	55	ASP
4	D	56	GLU
4	D	57	ILE
4	D	80	GLU
4	D	89	CYS
4	D	113	ASP
4	D	132	LEU
4	D	155	LYS
4	D	162	SER
4	D	165	ARG
4	D	167	TYR
4	D	190	LEU
4	D	192	ASP
4	D	195	LEU
4	D	214	ASN
4	D	250	ILE
4	D	251	ARG
5	E	4	LEU
5	E	12	ARG

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
5	E	18	PHE
5	E	22	LEU
5	E	30	LEU
5	E	38	ILE
5	E	41	ASP
5	E	42	LEU
5	E	51	VAL
5	E	58	ILE
5	E	60	VAL
5	E	101	LEU
5	E	112	GLN
5	E	174	TRP
6	F	5	TYR
6	F	12	ILE
6	F	39	ASP
7	H	12	ARG
7	H	13	ILE
7	H	15	TYR
7	H	24	ASN
7	H	26	ASP
7	H	38	ARG
7	H	42	LEU
7	H	44	TRP
7	H	46	ARG
7	H	62	ILE
7	H	64	ARG
7	H	72	TYR
7	H	76	VAL
8	K	12	ASP
8	K	15	PHE
8	K	23	TRP
8	K	39	ARG
8	K	41	LEU
8	K	42	GLN
8	K	52	ASP
8	K	60	ASP
8	K	67	GLU
8	K	71	ARG
8	K	73	VAL
8	K	74	LEU
8	K	82	LEU
8	K	89	LEU

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
8	K	90	LEU
9	L	5	ILE
9	L	24	LEU
9	L	44	TYR
9	L	45	GLN
9	L	48	PRO
9	L	57	ILE
10	N	3	ILE
10	N	5	ILE
10	N	10	CYS
10	N	20	SER
10	N	22	ILE
10	N	48	MET
10	N	55	ILE
10	N	64	ARG
11	P	10	TRP
11	P	15	ASP
11	P	21	LEU
11	P	24	VAL
11	P	31	TYR
11	P	35	PHE
11	P	41	THR
11	P	46	LYS
1	Q	30	PRO
1	Q	45	MET
1	Q	48	ARG
1	Q	52	ILE
1	Q	56	GLN
1	Q	71	HIS
1	Q	75	ILE
1	Q	84	VAL
1	Q	175	LEU
1	Q	176	THR
1	Q	179	ASP
1	Q	191	ASP
1	Q	203	ARG
1	Q	219	ILE
1	Q	232	GLU
1	Q	238	LYS
1	Q	239	LEU
1	Q	253	ILE
1	Q	278	ASP

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
1	Q	282	PRO
1	Q	287	SER
1	Q	297	THR
1	Q	298	LEU
1	Q	301	ARG
1	Q	306	GLU
1	Q	308	ARG
1	Q	312	ASN
1	Q	313	LEU
1	Q	314	SER
1	Q	346	THR
1	Q	349	VAL
1	Q	356	TRP
1	Q	366	ILE
1	Q	369	PRO
1	Q	376	ASN
1	Q	377	TYR
1	Q	378	VAL
1	Q	410	HIS
1	Q	421	ARG
1	Q	425	LEU
1	Q	427	ARG
1	Q	428	ILE
1	Q	438	LEU
1	Q	439	LYS
1	Q	446	ASN
1	Q	464	LEU
1	Q	471	GLU
1	Q	481	LEU
1	Q	487	ILE
1	Q	500	GLN
1	Q	503	ILE
1	Q	507	TYR
1	Q	518	LYS
1	Q	525	LEU
1	Q	537	PRO
1	Q	546	TYR
1	Q	550	GLN
1	Q	558	LYS
1	Q	559	ASP
1	Q	573	ARG
1	Q	574	LEU

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
1	Q	593	LEU
1	Q	597	VAL
1	Q	608	PRO
1	Q	612	LEU
1	Q	622	GLU
1	Q	633	ARG
1	Q	637	ARG
1	Q	641	LEU
1	Q	642	GLN
1	Q	656	ASP
1	Q	662	TYR
1	Q	675	LEU
1	Q	684	LEU
1	Q	687	ILE
1	Q	692	LEU
1	Q	702	ASP
1	Q	705	ASP
1	Q	708	ARG
1	Q	723	ASN
1	Q	755	GLU
1	Q	759	ARG
1	Q	764	ARG
1	Q	777	GLU
1	Q	781	PHE
1	Q	787	ARG
1	Q	797	PHE
1	Q	821	ARG
1	Q	823	LEU
1	Q	828	SER
1	Q	858	MET
1	Q	871	ILE
2	G	36	ILE
2	G	37	LEU
2	G	38	ASN
2	G	43	VAL
2	G	45	ARG
2	G	57	LYS
2	G	70	ILE
2	G	83	THR
2	G	85	MET
2	G	104	LEU
2	G	107	LEU

*Continued on next page...*



*Continued from previous page...*

Mol	Chain	Res	Type
2	G	116	VAL
2	G	132	ARG
2	G	133	ASP
2	G	146	TYR
2	G	239	ARG
2	G	267	VAL
2	G	275	ASN
2	G	276	ASN
2	G	284	PHE
2	G	310	ILE
2	G	311	ARG
2	G	315	LEU
2	G	318	ASP
2	G	320	MET
2	G	331	ARG
2	G	335	THR
2	G	337	GLU
2	G	344	ARG
2	G	351	VAL
2	G	360	ARG
2	G	364	GLU
2	G	370	VAL
2	G	379	ILE
2	G	380	LYS
2	G	381	LEU
2	G	390	MET
2	G	391	ARG
3	R	5	LEU
3	R	6	THR
3	R	33	ASP
3	R	64	ARG
3	R	65	ILE
3	R	83	MET
3	R	105	ASN
3	R	108	GLU
3	R	118	ASP
3	R	128	ASP
3	R	163	THR
3	R	171	ARG
3	R	182	ASN
3	R	183	ILE
3	R	193	THR

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
3	R	227	MET
3	R	245	ASP
3	R	296	TYR
3	R	313	TYR
3	R	322	VAL
3	R	327	LEU
3	R	332	PRO
3	R	348	ASP
3	R	355	ARG
3	R	361	PHE
3	R	367	TYR
3	R	382	LYS
3	R	391	THR
3	R	394	ILE
3	R	404	VAL
3	R	407	ARG
3	R	416	ARG
3	R	418	ASN
3	R	419	TRP
3	R	429	VAL
3	R	453	MET
3	R	457	GLU
3	R	476	ILE
3	R	478	VAL
3	R	484	ILE
3	R	501	ILE
3	R	529	TYR
3	R	530	TYR
3	R	536	LEU
3	R	544	ARG
3	R	551	ASP
3	R	561	ASP
3	R	562	PHE
3	R	570	CYS
3	R	577	ARG
3	R	588	LEU
3	R	603	THR
3	R	606	ASP
3	R	625	TYR
3	R	628	LEU
3	R	634	THR
3	R	638	THR

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
3	R	643	TRP
3	R	644	SER
3	R	650	ILE
3	R	655	ILE
3	R	659	GLU
3	R	669	GLN
3	R	672	MET
3	R	685	GLN
3	R	686	LEU
3	R	687	ARG
3	R	691	ARG
3	R	702	LEU
3	R	708	LEU
3	R	710	ILE
3	R	714	THR
3	R	715	ASN
3	R	739	ILE
3	R	770	GLU
3	R	781	ARG
3	R	783	TYR
3	R	787	GLU
3	R	788	TYR
3	R	789	TYR
3	R	794	ASP
3	R	800	PRO
3	R	850	VAL
3	R	867	ARG
3	R	874	ILE
3	R	890	MET
3	R	895	VAL
3	R	896	ASP
3	R	910	LEU
3	R	915	LEU
3	R	926	GLU
3	R	941	ASP
3	R	945	PHE
3	R	946	TYR
3	R	950	ILE
3	R	951	GLU
3	R	957	ILE
3	R	958	LEU
3	R	959	ARG

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
3	R	967	THR
3	R	975	THR
3	R	982	ARG
3	R	985	PHE
3	R	990	TYR
3	R	991	GLN
3	R	992	LYS
3	R	994	HIS
3	R	1000	LYS
3	R	1002	HIS
3	R	1004	ARG
3	R	1018	GLU
3	R	1026	LEU
3	R	1030	GLU
3	R	1031	MET
3	R	1033	ARG
3	R	1035	CYS
3	R	1039	PHE
3	R	1045	LEU
3	R	1049	LEU
3	R	1054	ASP
3	R	1057	MET
3	R	1062	ASP
3	R	1080	PRO
3	R	1097	PHE
3	R	1111	PRO
3	R	1113	LEU
3	R	1115	LEU
4	S	54	TYR
4	S	55	ASP
4	S	56	GLU
4	S	57	ILE
4	S	80	GLU
4	S	89	CYS
4	S	113	ASP
4	S	132	LEU
4	S	155	LYS
4	S	162	SER
4	S	165	ARG
4	S	167	TYR
4	S	190	LEU
4	S	192	ASP

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
4	S	195	LEU
4	S	214	ASN
4	S	250	ILE
4	S	251	ARG
5	T	4	LEU
5	T	12	ARG
5	T	18	PHE
5	T	22	LEU
5	T	30	LEU
5	T	38	ILE
5	T	41	ASP
5	T	42	LEU
5	T	51	VAL
5	T	58	ILE
5	T	60	VAL
5	T	101	LEU
5	T	112	GLN
5	T	174	TRP
6	U	5	TYR
6	U	12	ILE
6	U	39	ASP
7	V	12	ARG
7	V	13	ILE
7	V	15	TYR
7	V	24	ASN
7	V	26	ASP
7	V	38	ARG
7	V	42	LEU
7	V	44	TRP
7	V	46	ARG
7	V	62	ILE
7	V	64	ARG
7	V	72	TYR
8	W	12	ASP
8	W	15	PHE
8	W	23	TRP
8	W	39	ARG
8	W	41	LEU
8	W	42	GLN
8	W	52	ASP
8	W	60	ASP
8	W	67	GLU

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
8	W	71	ARG
8	W	73	VAL
8	W	74	LEU
8	W	82	LEU
8	W	89	LEU
8	W	90	LEU
9	X	5	ILE
9	X	24	LEU
9	X	44	TYR
9	X	45	GLN
9	X	48	PRO
9	X	57	ILE
10	Y	3	ILE
10	Y	5	ILE
10	Y	7	CYS
10	Y	10	CYS
10	Y	20	SER
10	Y	22	ILE
10	Y	48	MET
10	Y	55	ILE
10	Y	64	ARG
11	Z	10	TRP
11	Z	15	ASP
11	Z	21	LEU
11	Z	24	VAL
11	Z	31	TYR
11	Z	35	PHE
11	Z	41	THR
11	Z	46	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (175) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	5	ASN
1	A	56	GLN
1	A	67	ASN
1	A	237	HIS
1	A	259	GLN
1	A	270	GLN
1	A	272	HIS
1	A	312	ASN
1	A	331	ASN

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
1	A	367	ASN
1	A	376	ASN
1	A	410	HIS
1	A	420	ASN
1	A	422	GLN
1	A	446	ASN
1	A	468	GLN
1	A	483	HIS
1	A	485	ASN
1	A	522	GLN
1	A	561	ASN
1	A	563	HIS
1	A	567	ASN
1	A	582	HIS
1	A	606	GLN
1	A	677	GLN
1	A	723	ASN
2	C	22	ASN
2	C	38	ASN
2	C	76	GLN
2	C	275	ASN
2	C	312	HIS
2	C	328	GLN
3	B	40	GLN
3	B	89	ASN
3	B	182	ASN
3	B	249	GLN
3	B	250	ASN
3	B	337	HIS
3	B	340	ASN
3	B	368	GLN
3	B	396	HIS
3	B	412	GLN
3	B	418	ASN
3	B	425	HIS
3	B	439	ASN
3	B	446	HIS
3	B	554	ASN
3	B	564	ASN
3	B	623	ASN
3	B	639	HIS
3	B	660	HIS

*Continued on next page...*



*Continued from previous page...*

Mol	Chain	Res	Type
3	B	661	ASN
3	B	669	GLN
3	B	685	GLN
3	B	715	ASN
3	B	721	ASN
3	B	882	HIS
3	B	884	GLN
3	B	911	ASN
3	B	913	HIS
3	B	977	GLN
3	B	991	GLN
3	B	994	HIS
3	B	995	HIS
3	B	1063	GLN
3	B	1087	ASN
3	B	1102	GLN
4	D	4	ASN
4	D	50	ASN
4	D	181	ASN
4	D	214	ASN
5	E	33	GLN
5	E	35	GLN
5	E	109	HIS
5	E	112	GLN
5	E	166	GLN
5	E	177	GLN
6	F	35	GLN
7	H	20	HIS
7	H	41	GLN
8	K	24	GLN
8	K	42	GLN
8	K	54	ASN
9	L	75	ASN
10	N	19	GLN
10	N	26	ASN
10	N	57	ASN
1	Q	5	ASN
1	Q	56	GLN
1	Q	67	ASN
1	Q	237	HIS
1	Q	259	GLN
1	Q	270	GLN

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
1	Q	272	HIS
1	Q	312	ASN
1	Q	331	ASN
1	Q	367	ASN
1	Q	376	ASN
1	Q	410	HIS
1	Q	420	ASN
1	Q	422	GLN
1	Q	446	ASN
1	Q	468	GLN
1	Q	483	HIS
1	Q	485	ASN
1	Q	522	GLN
1	Q	561	ASN
1	Q	567	ASN
1	Q	582	HIS
1	Q	606	GLN
1	Q	677	GLN
1	Q	723	ASN
2	G	22	ASN
2	G	38	ASN
2	G	76	GLN
2	G	275	ASN
2	G	312	HIS
2	G	328	GLN
3	R	40	GLN
3	R	89	ASN
3	R	182	ASN
3	R	249	GLN
3	R	250	ASN
3	R	337	HIS
3	R	340	ASN
3	R	368	GLN
3	R	396	HIS
3	R	412	GLN
3	R	418	ASN
3	R	425	HIS
3	R	439	ASN
3	R	446	HIS
3	R	469	ASN
3	R	523	ASN
3	R	554	ASN

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
3	R	564	ASN
3	R	623	ASN
3	R	639	HIS
3	R	660	HIS
3	R	661	ASN
3	R	669	GLN
3	R	685	GLN
3	R	715	ASN
3	R	721	ASN
3	R	882	HIS
3	R	884	GLN
3	R	911	ASN
3	R	913	HIS
3	R	977	GLN
3	R	991	GLN
3	R	994	HIS
3	R	995	HIS
3	R	1010	GLN
3	R	1063	GLN
3	R	1087	ASN
3	R	1102	GLN
4	S	4	ASN
4	S	50	ASN
4	S	181	ASN
4	S	214	ASN
5	T	33	GLN
5	T	109	HIS
5	T	112	GLN
5	T	166	GLN
5	T	177	GLN
6	U	35	GLN
7	V	20	HIS
8	W	24	GLN
8	W	25	ASN
8	W	42	GLN
8	W	54	ASN
9	X	75	ASN
10	Y	19	GLN
10	Y	26	ASN
10	Y	57	ASN

### 5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

## 5.5 Carbohydrates ⓘ

There are no monosaccharides in this entry.

## 5.6 Ligand geometry ⓘ

Of 12 ligands modelled in this entry, 10 are monoatomic - leaving 2 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	$\# Z  > 2$
14	F3S	S	1001	4	0,9,9	-	-	-		
14	F3S	D	1001	4	0,9,9	-	-	-		

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
14	F3S	S	1001	4	-	-	0/3/3/3
14	F3S	D	1001	4	-	-	0/3/3/3

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

2 monomers are involved in 7 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
14	S	1001	F3S	3	0
14	D	1001	F3S	4	0

## 5.7 Other polymers [i](#)

There are no such residues in this entry.

## 5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

## 6 Fit of model and data ⓘ

### 6.1 Protein, DNA and RNA chains ⓘ

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å <sup>2</sup> )	Q<0.9
1	A	776/880 (88%)	-0.18	17 (2%) 62 60	23, 75, 132, 186	0
1	Q	776/880 (88%)	-0.03	26 (3%) 45 44	29, 87, 145, 202	0
2	C	279/392 (71%)	-0.06	10 (3%) 42 42	29, 81, 153, 190	0
2	G	279/392 (71%)	0.00	12 (4%) 35 35	42, 97, 153, 181	0
3	B	1090/1124 (96%)	-0.19	17 (1%) 72 70	24, 78, 145, 196	0
3	R	1090/1124 (96%)	-0.10	33 (3%) 50 49	36, 84, 149, 196	0
4	D	264/265 (99%)	0.09	12 (4%) 33 33	44, 94, 144, 179	0
4	S	264/265 (99%)	0.22	15 (5%) 23 24	61, 111, 157, 192	0
5	E	176/180 (97%)	0.38	16 (9%) 9 10	39, 112, 189, 202	0
5	T	176/180 (97%)	0.35	14 (7%) 12 13	57, 113, 176, 202	0
6	F	89/113 (78%)	0.35	12 (13%) 3 4	73, 142, 182, 196	0
6	U	89/113 (78%)	0.59	10 (11%) 5 6	93, 141, 184, 201	0
7	H	74/84 (88%)	0.21	3 (4%) 37 36	46, 90, 137, 165	0
7	V	74/84 (88%)	0.20	5 (6%) 17 19	70, 101, 159, 198	0
8	K	82/95 (86%)	-0.25	1 (1%) 79 77	30, 72, 118, 154	0
8	W	82/95 (86%)	0.03	3 (3%) 41 40	47, 82, 139, 189	0
9	L	92/92 (100%)	0.01	2 (2%) 62 60	42, 81, 125, 200	0
9	X	92/92 (100%)	0.31	9 (9%) 7 9	52, 102, 140, 159	0
10	N	64/66 (96%)	-0.23	0 100 100	60, 90, 124, 174	0
10	Y	64/66 (96%)	-0.02	2 (3%) 49 48	61, 98, 145, 185	0
11	P	43/48 (89%)	-0.03	2 (4%) 31 31	48, 101, 137, 154	0
11	Z	43/48 (89%)	-0.13	0 100 100	64, 100, 144, 180	0
All	All	6058/6678 (90%)	-0.03	221 (3%) 42 42	23, 88, 153, 202	0

All (221) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
3	R	434	ALA	8.3
5	T	135	VAL	6.6
6	U	33	LEU	6.1
4	D	217	ILE	5.8
6	U	2	SER	5.7
7	V	57	ALA	5.7
1	A	255	ALA	5.6
5	E	131	LYS	5.6
3	R	596	LYS	5.5
1	Q	255	ALA	5.3
3	B	1069	TRP	5.1
5	E	128	PHE	5.1
5	E	135	VAL	5.0
3	B	1078	VAL	5.0
6	U	5	TYR	4.9
5	T	117	THR	4.9
4	S	172	ILE	4.8
6	U	89	MET	4.8
1	Q	807	VAL	4.7
5	E	127	ILE	4.7
5	E	153	VAL	4.7
5	T	179	LYS	4.6
3	R	245	ASP	4.6
3	R	277	ALA	4.6
4	D	190	LEU	4.6
3	B	625	TYR	4.5
3	R	1079	CYS	4.4
6	F	32	ASN	4.4
3	R	765	TYR	4.4
3	R	1069	TRP	4.4
6	F	5	TYR	4.3
1	Q	292	GLY	4.3
8	K	51	ILE	4.2
3	B	434	ALA	4.0
1	A	62	GLY	4.0
5	T	177	GLN	4.0
2	C	137	ALA	3.9
2	G	395	ARG	3.9
1	A	247	GLU	3.9
6	U	4	VAL	3.9
2	C	259	SER	3.9
3	R	831	ALA	3.9
9	L	89	GLY	3.8

*Continued on next page...*



*Continued from previous page...*

Mol	Chain	Res	Type	RSRZ
4	D	88	ASN	3.8
7	V	82	ILE	3.8
3	R	781	ARG	3.8
3	R	597	LEU	3.7
5	E	130	GLU	3.7
1	A	60	THR	3.6
2	C	394	LEU	3.6
6	F	2	SER	3.6
1	Q	60	THR	3.6
5	T	178	THR	3.6
3	R	272	ILE	3.6
7	V	58	LYS	3.6
6	U	32	ASN	3.5
1	Q	254	ASP	3.5
2	G	250	ILE	3.5
2	C	138	LEU	3.5
3	B	53	ILE	3.5
5	E	32	GLN	3.4
5	E	111	SER	3.2
3	B	182	ASN	3.2
3	R	224	VAL	3.2
4	D	188	PHE	3.2
5	T	180	LYS	3.2
5	T	130	GLU	3.2
3	R	306	GLU	3.2
7	V	14	HIS	3.2
3	R	256	LEU	3.1
4	D	187	VAL	3.1
6	F	77	PRO	3.1
6	U	61	ASN	3.1
7	H	57	ALA	3.1
3	R	278	ILE	3.0
3	R	778	ALA	3.0
4	D	189	GLU	3.0
5	T	171	LYS	3.0
3	R	766	PRO	3.0
3	B	779	GLY	3.0
5	E	178	THR	3.0
4	S	193	GLY	2.9
1	Q	10	LYS	2.9
6	F	53	GLN	2.9
3	R	194	ALA	2.9

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	RSRZ
4	S	188	PHE	2.9
4	D	175	ASN	2.9
4	S	201	LEU	2.9
4	S	88	ASN	2.9
1	Q	183	ARG	2.8
5	E	180	LYS	2.8
2	G	394	LEU	2.8
2	C	126	LEU	2.8
1	A	810	ALA	2.8
6	F	4	VAL	2.8
3	B	766	PRO	2.8
11	P	16	GLU	2.8
3	R	1077	TYR	2.8
3	R	433	LEU	2.8
4	S	214	ASN	2.8
4	S	217	ILE	2.7
1	A	266	TRP	2.7
3	R	774	VAL	2.7
7	H	62	ILE	2.7
3	B	433	LEU	2.7
2	C	395	ARG	2.7
3	B	831	ALA	2.7
1	Q	808	ASP	2.7
6	F	62	ILE	2.6
3	B	245	ASP	2.6
4	S	213	CYS	2.6
3	R	271	PHE	2.6
2	G	251	ILE	2.6
10	Y	27	ALA	2.6
9	X	90	LEU	2.6
2	G	338	LYS	2.6
2	G	126	LEU	2.6
9	X	84	ILE	2.6
6	U	85	SER	2.5
3	B	225	ILE	2.5
5	E	129	GLY	2.5
5	T	136	ILE	2.5
3	R	244	LEU	2.5
5	E	137	GLN	2.5
9	X	32	LEU	2.5
6	U	78	THR	2.5
1	A	284	LEU	2.5

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	RSRZ
1	A	61	CYS	2.5
5	E	123	VAL	2.4
3	R	601	ALA	2.4
1	Q	177	PRO	2.4
4	D	216	SER	2.4
9	X	35	ILE	2.4
5	T	119	LYS	2.4
9	X	4	ARG	2.4
4	D	87	GLU	2.4
6	F	45	GLU	2.4
1	A	807	VAL	2.4
1	Q	62	GLY	2.4
3	B	255	SER	2.4
3	R	280	GLN	2.4
6	F	63	VAL	2.3
2	G	256	SER	2.3
1	Q	192	VAL	2.3
7	H	14	HIS	2.3
8	W	52	ASP	2.3
2	G	258	LEU	2.3
1	A	254	ASP	2.3
9	X	5	ILE	2.3
2	C	245	LYS	2.3
3	B	264	ASN	2.3
3	B	584	ASN	2.3
1	Q	686	PRO	2.3
3	R	832	LYS	2.3
5	T	118	LEU	2.3
1	A	842	TYR	2.3
3	R	263	ALA	2.3
2	G	245	LYS	2.3
3	R	1063	GLN	2.3
4	S	176	CYS	2.3
1	Q	657	VAL	2.3
10	Y	21	PHE	2.3
2	G	121	MET	2.3
4	S	199	ASN	2.3
2	C	251	ILE	2.3
1	Q	48	ARG	2.2
5	E	117	THR	2.2
6	F	33	LEU	2.2
1	Q	263	GLU	2.2

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	RSRZ
1	A	252	SER	2.2
1	Q	395	LYS	2.2
5	E	115	ASP	2.2
1	A	48	ARG	2.2
3	R	789	TYR	2.2
7	V	56	ASN	2.2
4	S	200	GLU	2.2
5	T	11	VAL	2.2
4	S	190	LEU	2.2
6	U	64	SER	2.2
11	P	28	TYR	2.2
1	Q	253	ILE	2.2
6	F	61	ASN	2.2
1	Q	260	LEU	2.2
2	G	125	TYR	2.2
2	C	136	LYS	2.2
5	T	174	TRP	2.1
4	S	84	GLU	2.1
1	Q	257	ALA	2.1
1	Q	288	LYS	2.1
3	R	195	GLY	2.1
8	W	51	ILE	2.1
1	Q	80	PRO	2.1
1	Q	289	HIS	2.1
9	X	87	ILE	2.1
1	A	50	GLY	2.1
1	A	93	PHE	2.1
1	Q	545	TYR	2.1
4	D	76	TYR	2.1
4	S	192	ASP	2.1
9	X	3	ILE	2.1
3	R	767	GLY	2.1
9	X	89	GLY	2.1
6	F	76	CYS	2.1
1	A	683	GLU	2.1
1	A	175	LEU	2.1
4	D	197	VAL	2.1
4	D	167	TYR	2.1
3	B	224	VAL	2.1
3	R	609	ARG	2.1
8	W	11	GLN	2.1
4	S	143	ALA	2.1

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	RSRZ
3	R	771	ASP	2.1
5	E	92	VAL	2.1
2	G	298	SER	2.1
5	T	128	PHE	2.0
1	Q	397	LEU	2.0
1	Q	252	SER	2.0
9	L	85	ASP	2.0
3	B	367	TYR	2.0
2	C	265	LYS	2.0
1	Q	708	ARG	2.0

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

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

## 6.3 Carbohydrates [i](#)

There are no monosaccharides in this entry.

## 6.4 Ligands [i](#)

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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
13	MG	A	1003	1/1	0.92	0.18	57,57,57,57	0
12	ZN	R	2001	1/1	0.97	0.06	101,101,101,101	0
12	ZN	B	2001	1/1	0.97	0.11	91,91,91,91	0
13	MG	Q	1003	1/1	0.97	0.25	60,60,60,60	0
14	F3S	D	1001	7/7	0.97	0.12	79,80,80,80	0
14	F3S	S	1001	7/7	0.98	0.11	111,111,112,113	0
12	ZN	Y	1001	1/1	0.99	0.17	93,93,93,93	0
12	ZN	Z	1001	1/1	0.99	0.12	106,106,106,106	0
12	ZN	N	1001	1/1	0.99	0.17	93,93,93,93	0
12	ZN	P	1001	1/1	0.99	0.10	103,103,103,103	0
12	ZN	Q	1002	1/1	0.99	0.05	89,89,89,89	0
12	ZN	A	1002	1/1	0.99	0.06	87,87,87,87	0

## 6.5 Other polymers [i](#)

There are no such residues in this entry.