



Full wwPDB/EMDatabank EM Map/Model Validation Report ⓘ

Mar 2, 2017 – 12:43 pm GMT

PDB ID : 5J8V
EMDB ID: : EMD-8073
Title : Structure of rabbit ryanodine receptor RyR1 open state activated by calcium ion
Authors : Wang, X.; Wei, R.; Yin, C.; Sun, F.
Deposited on : 2016-04-08
Resolution : 4.90 Å(reported)
Based on PDB ID : 3J8H

This is a Full wwPDB/EMDatabank EM Map/Model Validation Report
for a publicly released PDB/EMDB entry.

We welcome your comments at validation@mail.wwpdb.org
A user guide is available at
<http://wwpdb.org/validation/2016/EMValidationReportHelp>
with specific help available everywhere you see the ⓘ symbol.

MolProbity : 4.02b-467
Percentile statistics : 20161228.v01 (using entries in the PDB archive December 28th 2016)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et. al. (1996)
Validation Pipeline (wwPDB-VP) : recalc29047

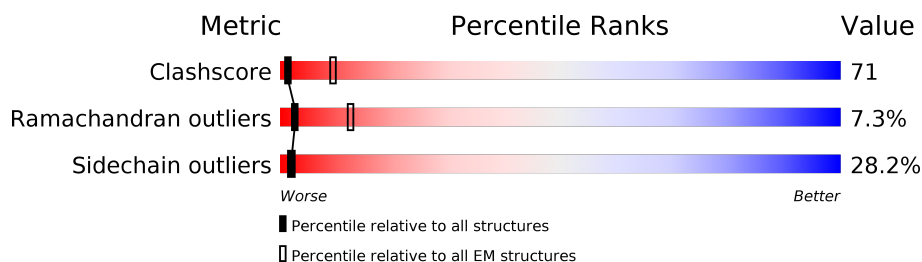
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 4.90 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	125131	1336
Ramachandran outliers	121729	1120
Sidechain outliers	121581	1026

The table below summarises the geometric issues observed across the polymeric chains. The red, orange, yellow and green segments on the bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria. 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 $\leq 5\%$

Mol	Chain	Length	Quality of chain
1	A	5037	
1	B	5037	
1	C	5037	
1	D	5037	

2 Entry composition

There is only 1 type of molecule in this entry. The entry contains 73616 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

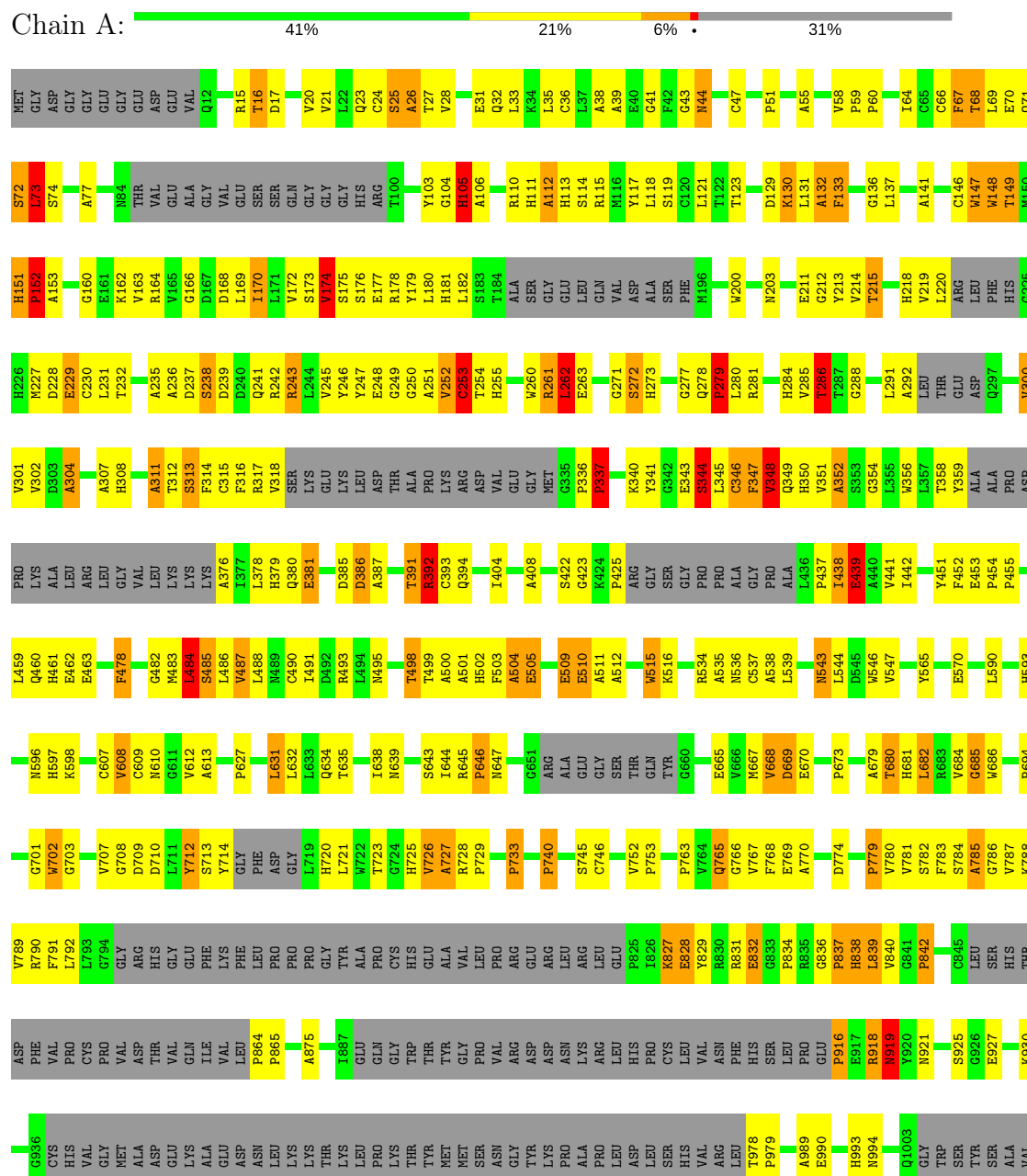
- Molecule 1 is a protein called Ryanodine receptor 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	3453	Total 18404	C 11343	N 3553	O 3501	S 7	0	0
1	B	3453	Total 18404	C 11343	N 3553	O 3501	S 7	0	0
1	C	3453	Total 18404	C 11343	N 3553	O 3501	S 7	0	0
1	D	3453	Total 18404	C 11343	N 3553	O 3501	S 7	0	0

3 Residue-property plots

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

• Molecule 1: Ryanodine receptor 1















T3905	G3827	Y3725	MET	GLY	LYS	ARG	LEU	LEU	LYS	E3086	LYS	T2910	K2786	LYS	GLY	ALA	GLY
Q3906	F3828	H3734	THR	LEU	LYS	K3367	ALA	ALA	LYS	I3087	PRO	K2914	K2787	CYS	ALA	ALA	ALA
T3911	F3829	GLY	PRO	PRO	ARG	Q3378	GLU	GLU	ASN	A3090	HIS	E2917	H2788	P2567	P2567	LEU	VAL
T3912	T3912	GLU	LEU	ARG	GLY	L3379	GLY	GLY	TYR	GLY	GLU	A2917	P2789	T2572	T2572	GLN	PRO
N3914	A3834	GLY	ASN	GLU	ASP	R3380	ALA	ALA	ARG	LEU	GLN	R2920	M2790	R2575	R2575	LYS	LYS
I3915	L3835	GLY	LEU	GLU	ARG	L3381	ARG	ARG	TYR	ARG	ILE	R2923	R2792	R2586	R2586	MET	MET
I3917	M3836	GLU	P3645	ASP	TYR	E3389	THR	THR	THR	SER	LYS	A2923	P2793	Y2587	Y2587	SER	SER
Y3922	T3838	GLU	R3648	ASP	VAL	GLY	MET	MET	GLU	PHE	PHE	V2937	P2808	Y2588	Y2588	ALA	ALA
F3933	C3839	GLY	K3658	PRO	THR	LEU	HIS	HIS	PRO	S3098	LYS	G2940	E2830	R2589	R2589	PHE	PHE
Y3934	S3840	GLU	V3661	LYS	LEU	VAL	VAL	VAL	PRO	I3103	ILE	LEU	GLU	A2609	A2609	V2495	V2495
Y3935	Q3850	GLU	L3662	ILE	LEU	ARG	ILE	ILE	PRO	E3104	LEU	LYS	GLU	LEU	LEU	P2496	P2496
Y3936	A3853	GLU	L3663	VAL	VAL	ASP	GLU	GLU	VAL	K3105	LEU	LYS	ARG	ASP	ASP	S2501	S2501
Y3937	GLY	VAL	T3664	ARG	ARG	GLU	ILE	ILE	GLU	M3106	PRO	GLU	THR	R2591	R2591	P2505	P2505
S3938	GLY	VAL	E3666	VAL	T3513	PHE	VAL	VAL	TYR	V3107	ILE	LEU	GLU	L2595	L2595	L2506	L2506
G3939	LEU	VAL	H3667	GLN	P3519	VAL	VAL	VAL	GLY	E3108	ASN	ASP	LYS	A2609	A2609	V2509	V2509
V3942	GLY	VAL	S3668	GLU	THR	LEU	THR	THR	THR	L3110	THR	THR	LYS	LEU	LEU	GLY	GLY
I3943	VAL	THR	F3669	SER	THR	ARG	ARG	ARG	VAL	L3112	TYR	SER	THR	CYS	CYS	ASN	ASN
E3944	ASN	GLY	D3671	ALA	ASP	ASP	ASP	ASP	TYR	G3113	THR	ILE	LYS	TYR	TYR	ILE	ILE
E3945	GLU	VAL	K3679	VAL	GLN	L3405	ASP	ASP	THR	K3114	ASN	LYS	ILE	ILE	ILE	ASN	ASN
Q3946	ASP	VAL	ALA	LEU	ASP	P3410	THR	THR	THR	VAL	HIS	LYS	SER	R2615	R2615	ASP	ASP
G3947	GLY	VAL	GLY	THR	LEU	P3410	THR	THR	THR	SER	LEU	ARG	THR	P2616	P2616	GLN	GLN
F3951	THR	THR	GLY	HIS	ILE	Y3415	THR	THR	THR	ALA	LEU	PHE	ALA	R2624	R2624	L2518	L2518
I3952	ILE	GLU	GLN	GLU	ALA	N3419	GLY	GLY	GLY	THR	THR	GLY	THR	N2634	N2634	L2522	L2522
F3962	GLU	GLU	GLU	THR	LYS	W3423	ALA	ALA	ALA	VAL	GLN	LEU	GLY	GLY	GLY	L2528	L2528
N3963	GLU	GLU	GLY	GLU	THR	P3427	THR	THR	THR	LYS	GLY	GLN	R2852	P2737	P2737	P2529	P2529
S3964	GLN	GLU	GLY	HIS	ARG	L3434	THR	THR	THR	GLY	THR	GLN	E2853	R2738	R2738	M2530	M2530
L3965	ASN	GLU	GLU	TYR	ALA	PHE	LEU	LEU	LEU	GLY	VAL	LEU	G2854	P2739	P2739	R2531	R2531
T3966	GLY	VAL	VAL	LYS	ASP	M3437	GLY	GLY	GLY	ASN	GLN	ARG	Y2855	V2740	V2740	A2532	A2532
E3967	LYS	VAL	VAL	SER	LYS	ARG	LEU	LEU	LEU	THR	THR	TRP	N2856	N2646	N2646	A2533	A2533
Q3970	V3874	GLY	GLU	GLY	ASP	E3455	ILE	ILE	ILE	T3132	GLY	SER	P2857	L2743	L2743	S2535	S2535
S3983	D3877	GLY	LYS	LYS	ALA	F3458	GLU	GLU	GLU	V3050	GLN	GLU	P2860	P2748	P2748	L2536	L2536
R3984	F3880	GLY	P3695	VAL	TRP	GLY	VAL	VAL	VAL	L3138	GLU	GLU	L2867	I2755	I2755	D2537	D2537
L3985	L3886	GLY	D3696	HIS	ARG	L3470	THR	THR	THR	P3138	PHE	PHE	H2883	A2759	A2759	A2539	A2539
W3986	L3889	GLY	P3697	LYS	ARG	THR	VAL	VAL	VAL	F3152	ILE	ILE	N2884	K2765	K2765	T2540	T2540
D3987	Q3889	GLY	L3698	LEU	GLY	ASP	ALA	ALA	ALA	GLY	ALA	ALA	A3063	A2766	A2766	F2541	F2541
V3989	L3891	GLY	H3699	LEU	F3552	ASP	ASP	ASP	ASP	ASP	ASP	HIS	G2887	R2888	R2888	M2546	M2546
V3990	L3892	GLY	L3701	SER	K3562	THR	GLN	GLN	GLN	ASP	VAL	VAL	R2888	A2767	A2767	M2546	M2546
H3998	C3892	GLY	V3702	LYS	GLN	ASP	GLN	GLN	GLN	ASP	ASN	GLU	R2888	G2766	G2766	A2549	A2549
Q4002	E3893	GLY	T3708	ARG	G3565	K3475	ILE	ILE	ILE	VAL	CYS	ALA	K2897	F2766	F2766	L2550	L2550
L4003	G3894	GLY	A3709	ARG	S3566	G3488	VAL	VAL	VAL	ILE	GLY	VAL	P2897	D2769	D2769	L2556	L2556
A4004	H3895	GLY	L3710	ARG	S3567	GLY	THR	THR	THR	L3158	LEU	VAL	H2902	K2770	K2770	A2557	A2557
Q4005	N3896	GLY	E3811	ALA	Q3572	ASP	ASP	ASP	ASP	Y3166	HIS	VAL	P2903	I2771	I2771	L2566	L2566
D4006	F3899	GLY	D3717	VAL	Q3572	ASP	GLN	GLN	GLN	Y3166	GLY	SER	P2903	G2775	G2775	G2561	G2561
S4007	Q3900	GLY	E3718	VAL	MET	GLY	GLU	GLU	GLU	Y3166	GLY	SER	P2903	S2776	S2776	L2562	L2562
S4008	N3901	GLY	D3719	ALA	ALA	GLY	THR	THR	THR	L3169	GLY	GLY	L2904	Y2777	Y2777	A2562	A2562
Q4009	N3902	GLY	L3720	CYS	LYS	THR	ARG	ARG	ARG	L3169	GLY	GLY	L2904	G2778	G2778	L2562	L2562
L3903	L3903	GLY	L3721	PHE	THR	THR	THR	THR	THR	S3174	VAL	VAL	P2907	L2686	L2686	L2562	L2562
R3904	R3904	GLY	L3721	ARG	ARG	LYS	LYS	LYS	LYS	S3174	VAL	VAL	P2907	HIS	HIS	L2562	L2562

C5018	D4953	C4882	I4816	GLU	L4677	GLY	MET	GLY	ASP	TRP	GLY	ALA	E4392	V4154	G4033
W5019	M4954	Y4883	A4917	ILE	L4677	TRP	GLU	VAL	GLY	GLY	GLY	ALA	L4233	P4155	G4034
D5020	E4955	L4884	M4818	THR	L4682	GLY	F4540	ASP	ASP	GLY	SER	ALA	V4234	M4034	V4035
F5021	T4956	F4885	G4819	ALA	E4682	GLY	E4545	GLY	GLY	GLY	PHE	ALA	V4235	D4157	V4036
F5022	K4957	M4886	V4820	HIS	F4683	ALA	E4545	GLY	VAL	ALA	GLY	ALA	S4236	R4158	R4159
F5023	C4958	M4887	K4821	ASN	D4684	ALA	V4549	GLY	VAL	ALA	GLY	ALA	C4238	R4160	M4047
A5024	F4959	Y4888	T4822	GLU	G4685	GLY	V4549	GLY	ALA	ALA	GLY	LEU	E4239	R4161	
Q5025	L4960	V4889	L4823	ARG	G4686	GLU	L4562	GLY	HIS	GLY	LEU	ARG	E4240	E4168	I4068
D5026	C4961	G4890	R4824	LYS	Y4687	GLU	N4553	LEU	GLY	VAL	LEU	GLY	T4241	E4168	
C5027	F4891	T4825	T4825	PRO	T4688	ALA	Y4554	VAL	ALA	GLY	VAL	SER	I4242	F4061	F4062
				ASP	T4689	GLY	L4555	PRO	GLY	GLY	GLY	TYR	F4243	F4062	
F5028	G4964	R4892	S4829	PRO	Q4690	ASP	S4556	PRO	PRO	GLY	GLY	ALA	I4251	L4171	L4087
S4965	S4965	A4893		PRO	Q4691	GLY	R4557	GLY	GLY	GLY	LYS	ALA	S4252	E4172	
K5030	D4966	G4894		PRO	P4692	GLY	R4557	GLY	GLY	GLY	LYS	ALA	GLY	Y4173	L4088
Q5031	P4904			GLY	D4696	ASP	N4558	PRO	GLY	VAL	LYS	ALA	GLY	F4174	I4089
F5032	D4968	G4834	H4832	LEU	K4697	GLY	F4559	GLY	ALA	ALA	VAL	ARG	PRO	R4175	S4089
ASP	T4970	K4835	K4835	LEU	K4698	ASN	Y4560	PRO	GLY	GLY	THR	ARG	GLY	K4176	K4090
GLN	P4971	L4837	Q4836	THR	K4698	MET	T4561	GLY	GLY	VAL	VAL	ARG	GLY	Y4177	K4091
LEU	L4911	V4838	V4838	TRP	Q4700		L4562	PRO	VAL	VAL	THR	VAL	GLY	L4178	D4092
SER				L4768	Q4700			GLY	VAL	VAL	GLY	ARG	GLY	G4179	F4093
				M4769	W4701		A4570	PRO	ALA	ALA	LEU	ARG	PRO	R4180	
				S4770	W4701		F4571	GLY	VAL	VAL	LEU	ALA	GLY	I4181	Q4102
					V4705		F4571	LYS	ALA	ALA	LEU	ALA	GLY	E4182	F4103
					L4706		A4572	ALA	ASP	ASP	GLY	ARG	ASP	T4104	T4104
					M4707		L4573	ASP	GLY	GLY	LEU	GLY	ASP	I4183	G4105
							M4574	GLY	GLY	GLY	THR	ALA	ASP	P4106	P4106
							F4575	GLY	PRO	PRO	ASP	ALA	GLY	E4107	
							I4576	ASN	PHE	ASP	ASP	ALA	GLY	I4108	
							L4577	GLY	THR	THR	GLY	GLY	GLY	Q4109	
							F4578	GLY	ARG	GLY	THR	ALA	GLY	E4191	F4110
							F4579	LYS	GLY	GLY	ASP	ALA	GLY	R4192	
							TYR	GLY	GLY	GLY	ASP	ALA	GLY	I4193	S4115
							LYS	GLY	GLY	GLY	THR	ALA	ALA	Y4194	
							VAL	GLY	GLY	VAL	VAL	ALA	ALA	E4195	M4120
							SER	PRO	GLY	GLY	HIS	LEU	ALA	E4196	M4121
							ASP	GLY	LEU	LEU	GLY	ALA	GLY	M4122	M4122
							SER	GLY	GLY	GLN	GLY	LEU	ALA	I4123	I4123
							PRO	ALA	ASP	PRO	ALA	LEU	GLY	N4124	N4124
							PRO	PRO	GLY	GLY	TRP	ALA	GLY	E4206	E4206
							GLY	GLY	GLY	GLY	GLY	GLY	GLY	F4125	F4125
							GLY	GLY	GLY	GLY	GLY	GLY	GLY	E4126	E4126
							ASP	PRO	ASP	PRO	VAL	VAL	ALA	F4127	F4127
							ASP	PRO	THR	GLY	VAL	VAL	ALA	Q4208	Q4208
							MET	LYS	THR	GLY	GLY	ALA	GLY	Q4209	F4128
							GLY	LYS	PRO	ASP	ARG	ALA	ALA	V4210	
							GLY	ALA	ALA	ALA	ALA	ALA	GLY	R4131	R4131
							GLY	ALA	GLY	GLY	GLY	GLY	GLY	F4132	F4132
							SER	PRO	GLY	ASP	GLY	GLY	GLY	P4135	P4135
							ALA	PRO	PRO	GLY	GLY	ALA	ALA	F4217	F4217
							ALA	SER	PRO	ALA	ALA	ALA	ALA	I4218	I4218
							ALA	PRO	THR	THR	GLY	GLY	GLY	G4140	G4140
							GLY	PRO	PRO	PRO	GLY	ALA	THR	F4141	F4141
							ASP	ALA	GLY	GLY	GLY	GLY	VAL	V4221	V4221
							LEU	ALA	GLY	GLY	GLY	GLY	VAL	V4222	V4222
							ALA	LYS	SER	GLY	GLY	ALA	ALA	N4223	N4223
							ALA	GLY	GLY	GLY	GLY	ALA	ALA	E4224	E4224
							GLY	GLY	PRO	GLY	GLY	GLY	GLY	GLY	GLY
							GLY	GLY	ILE	GLY	GLY	ALA	ALA	GLY	GLY
							SER	ALA	LEU	ASP	ALA	ALA	THR	GLY	GLY
							GLY	GLY	LYS	ALA	LEU	LEU	ALA	ALA	ALA
							GLY	GLY	ARG	ALA	ARG	ALA	ALA	E4229	E4229
							GLY	ALA	LYS	GLY	LEU	LEU	ALA	K4230	K4230
							SER	GLY	LEU	GLY	ALA	ALA	ALA	M4231	M4231

● Molecule 1: Ryanodine receptor 1












- Molecule 1: Ryanodine receptor 1

[illegible]













4 Experimental information

Property	Value	Source
Reconstruction method	Not provided	Depositor
Imposed symmetry	POINT, Not provided	Depositor
Number of images used	41743	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	Not provided	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	Not provided	Depositor
Minimum defocus (nm)	1000	Depositor
Maximum defocus (nm)	4000	Depositor
Magnification	100286	Depositor
Image detector	Not provided	Depositor

5 Model quality (i)

5.1 Standard geometry (i)

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z > 2$	RMSZ	$\# Z > 2$
1	A	1.17	51/18508 (0.3%)	1.21	262/25601 (1.0%)
1	B	1.17	51/18508 (0.3%)	1.21	262/25601 (1.0%)
1	C	1.17	51/18508 (0.3%)	1.21	262/25601 (1.0%)
1	D	1.17	51/18508 (0.3%)	1.21	262/25601 (1.0%)
All	All	1.17	204/74032 (0.3%)	1.21	1048/102404 (1.0%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	1	3
1	B	1	3
1	C	1	3
1	D	1	3
All	All	4	12

All (204) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	4859	PHE	CA-CB	-43.48	0.58	1.53
1	B	4859	PHE	CA-CB	-43.48	0.58	1.53
1	C	4859	PHE	CA-CB	-43.48	0.58	1.53
1	D	4859	PHE	CA-CB	-43.48	0.58	1.53
1	A	4691	GLN	CA-CB	-40.95	0.63	1.53
1	B	4691	GLN	CA-CB	-40.95	0.63	1.53
1	C	4691	GLN	CA-CB	-40.95	0.63	1.53
1	D	4691	GLN	CA-CB	-40.95	0.63	1.53
1	A	4168	GLU	CA-CB	-40.74	0.64	1.53
1	B	4168	GLU	CA-CB	-40.74	0.64	1.53
1	C	4168	GLU	CA-CB	-40.74	0.64	1.53
1	D	4168	GLU	CA-CB	-40.74	0.64	1.53

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	1297	PHE	CB-CG	-37.93	0.86	1.51
1	C	1297	PHE	CB-CG	-37.93	0.86	1.51
1	D	1297	PHE	CB-CG	-37.93	0.86	1.51
1	B	1297	PHE	CB-CG	-37.89	0.86	1.51
1	A	4557	ARG	CA-CB	-36.27	0.74	1.53
1	B	4557	ARG	CA-CB	-36.27	0.74	1.53
1	C	4557	ARG	CA-CB	-36.27	0.74	1.53
1	D	4557	ARG	CA-CB	-36.27	0.74	1.53
1	A	1747	LEU	CA-CB	-35.15	0.72	1.53
1	B	1747	LEU	CA-CB	-35.15	0.72	1.53
1	C	1747	LEU	CA-CB	-35.15	0.72	1.53
1	D	1747	LEU	CA-CB	-35.15	0.72	1.53
1	A	4684	ASP	CA-CB	-32.13	0.83	1.53
1	B	4684	ASP	CA-CB	-32.13	0.83	1.53
1	C	4684	ASP	CA-CB	-32.13	0.83	1.53
1	D	4684	ASP	CA-CB	-32.13	0.83	1.53
1	D	3527	PRO	CA-CB	-28.60	0.96	1.53
1	A	3527	PRO	CA-CB	-28.55	0.96	1.53
1	B	3527	PRO	CA-CB	-28.55	0.96	1.53
1	C	3527	PRO	CA-CB	-28.55	0.96	1.53
1	A	1536	SER	CA-CB	-26.35	1.13	1.52
1	B	1536	SER	CA-CB	-26.35	1.13	1.52
1	C	1536	SER	CA-CB	-26.35	1.13	1.52
1	D	1536	SER	CA-CB	-26.35	1.13	1.52
1	A	3090	ALA	CA-CB	-25.39	0.99	1.52
1	B	3090	ALA	CA-CB	-25.39	0.99	1.52
1	C	3090	ALA	CA-CB	-25.39	0.99	1.52
1	D	3090	ALA	CA-CB	-25.39	0.99	1.52
1	B	3217	SER	CA-CB	-24.67	1.16	1.52
1	C	3217	SER	CA-CB	-24.67	1.16	1.52
1	A	3217	SER	CA-CB	-24.64	1.16	1.52
1	D	3217	SER	CA-CB	-24.64	1.16	1.52
1	A	4682	GLU	CA-CB	-22.42	1.04	1.53
1	B	4682	GLU	CA-CB	-22.42	1.04	1.53
1	C	4682	GLU	CA-CB	-22.42	1.04	1.53
1	D	4682	GLU	CA-CB	-22.42	1.04	1.53
1	A	1850	VAL	CA-CB	-20.87	1.10	1.54
1	B	1850	VAL	CA-CB	-20.87	1.10	1.54
1	C	1850	VAL	CA-CB	-20.87	1.10	1.54
1	D	1850	VAL	CA-CB	-20.87	1.10	1.54
1	B	978	THR	CA-CB	-20.06	1.01	1.53
1	A	978	THR	CA-CB	-20.03	1.01	1.53

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D	978	THR	CA-CB	-20.03	1.01	1.53
1	C	978	THR	CA-CB	-20.01	1.01	1.53
1	A	1746	THR	CA-CB	-18.82	1.04	1.53
1	B	1746	THR	CA-CB	-18.82	1.04	1.53
1	C	1746	THR	CA-CB	-18.82	1.04	1.53
1	D	1746	THR	CA-CB	-18.80	1.04	1.53
1	A	1749	PRO	CA-CB	-17.98	1.17	1.53
1	B	1749	PRO	CA-CB	-17.98	1.17	1.53
1	C	1749	PRO	CA-CB	-17.98	1.17	1.53
1	D	1749	PRO	CA-CB	-17.98	1.17	1.53
1	B	2047	GLU	CA-CB	17.68	1.92	1.53
1	A	2047	GLU	CA-CB	17.66	1.92	1.53
1	C	2047	GLU	CA-CB	17.66	1.92	1.53
1	D	2047	GLU	CA-CB	17.66	1.92	1.53
1	B	1535	GLU	CA-CB	-15.83	1.19	1.53
1	A	1535	GLU	CA-CB	-15.80	1.19	1.53
1	C	1535	GLU	CA-CB	-15.80	1.19	1.53
1	D	1535	GLU	CA-CB	-15.76	1.19	1.53
1	A	1537	ASN	CA-CB	-13.78	1.17	1.53
1	C	1537	ASN	CA-CB	-13.78	1.17	1.53
1	D	1537	ASN	CA-CB	-13.78	1.17	1.53
1	B	1537	ASN	CA-CB	-13.75	1.17	1.53
1	A	3152	PHE	CA-CB	-11.47	1.28	1.53
1	C	3152	PHE	CA-CB	-11.47	1.28	1.53
1	D	3152	PHE	CA-CB	-11.47	1.28	1.53
1	B	3152	PHE	CA-CB	-11.46	1.28	1.53
1	A	1538	THR	CA-CB	-10.42	1.26	1.53
1	B	1538	THR	CA-CB	-10.42	1.26	1.53
1	C	1538	THR	CA-CB	-10.42	1.26	1.53
1	D	1538	THR	CA-CB	-10.42	1.26	1.53
1	A	5019	TRP	CG-CD1	-9.03	1.24	1.36
1	B	5019	TRP	CG-CD1	-9.03	1.24	1.36
1	D	5019	TRP	CG-CD1	-9.03	1.24	1.36
1	C	5019	TRP	CG-CD1	-8.98	1.24	1.36
1	C	1750	PRO	CA-CB	-8.61	1.36	1.53
1	A	1750	PRO	CA-CB	-8.59	1.36	1.53
1	B	1750	PRO	CA-CB	-8.59	1.36	1.53
1	D	1750	PRO	CA-CB	-8.59	1.36	1.53
1	C	5019	TRP	CB-CG	-7.50	1.36	1.50
1	A	5019	TRP	CD2-CE2	-7.48	1.32	1.41
1	B	5019	TRP	CD2-CE2	-7.48	1.32	1.41
1	C	5019	TRP	CD2-CE2	-7.48	1.32	1.41

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D	5019	TRP	CD2-CE2	-7.48	1.32	1.41
1	A	5019	TRP	CB-CG	-7.46	1.36	1.50
1	B	5019	TRP	CB-CG	-7.46	1.36	1.50
1	D	5019	TRP	CB-CG	-7.46	1.36	1.50
1	D	485	SER	C-O	7.33	1.37	1.23
1	C	485	SER	C-O	7.30	1.37	1.23
1	A	485	SER	C-O	7.29	1.37	1.23
1	B	485	SER	C-O	7.29	1.37	1.23
1	A	2586	VAL	CA-CB	-7.21	1.39	1.54
1	C	2586	VAL	CA-CB	-7.21	1.39	1.54
1	D	2586	VAL	CA-CB	-7.21	1.39	1.54
1	B	2586	VAL	CA-CB	-7.21	1.39	1.54
1	B	4092	ASP	N-CA	-6.86	1.32	1.46
1	A	4092	ASP	N-CA	-6.85	1.32	1.46
1	C	4092	ASP	N-CA	-6.85	1.32	1.46
1	D	4092	ASP	N-CA	-6.85	1.32	1.46
1	A	5018	CYS	C-O	-6.65	1.10	1.23
1	C	5018	CYS	C-O	-6.65	1.10	1.23
1	D	5018	CYS	C-O	-6.65	1.10	1.23
1	B	5018	CYS	C-O	-6.64	1.10	1.23
1	A	5019	TRP	C-O	-6.57	1.10	1.23
1	B	5019	TRP	C-O	-6.57	1.10	1.23
1	C	5019	TRP	C-O	-6.57	1.10	1.23
1	D	5019	TRP	C-O	-6.57	1.10	1.23
1	A	5022	PHE	CB-CG	-6.57	1.40	1.51
1	C	5022	PHE	CB-CG	-6.57	1.40	1.51
1	D	5022	PHE	CB-CG	-6.57	1.40	1.51
1	B	5022	PHE	CB-CG	-6.53	1.40	1.51
1	B	5022	PHE	CG-CD2	-6.42	1.29	1.38
1	A	5022	PHE	CG-CD2	-6.38	1.29	1.38
1	C	5022	PHE	CG-CD2	-6.38	1.29	1.38
1	D	5022	PHE	CG-CD2	-6.38	1.29	1.38
1	A	5022	PHE	CA-C	-6.21	1.36	1.52
1	B	5022	PHE	CA-C	-6.21	1.36	1.52
1	C	5022	PHE	CA-C	-6.21	1.36	1.52
1	D	5022	PHE	CA-C	-6.21	1.36	1.52
1	C	1657	LEU	CA-CB	6.16	1.68	1.53
1	A	1657	LEU	CA-CB	6.14	1.67	1.53
1	B	1657	LEU	CA-CB	6.14	1.67	1.53
1	D	1657	LEU	CA-CB	6.14	1.67	1.53
1	A	1745	ILE	CA-CB	-6.07	1.40	1.54
1	B	1745	ILE	CA-CB	-6.07	1.40	1.54

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	1745	ILE	CA-CB	-6.07	1.40	1.54
1	D	1745	ILE	CA-CB	-6.07	1.40	1.54
1	C	5019	TRP	CD1-NE1	-6.05	1.27	1.38
1	A	5019	TRP	CD1-NE1	-6.00	1.27	1.38
1	B	5019	TRP	CD1-NE1	-6.00	1.27	1.38
1	D	5019	TRP	CD1-NE1	-6.00	1.27	1.38
1	A	4207	MET	CA-CB	-5.90	1.41	1.53
1	B	4207	MET	CA-CB	-5.90	1.41	1.53
1	C	4207	MET	CA-CB	-5.90	1.41	1.53
1	D	4207	MET	CA-CB	-5.90	1.41	1.53
1	A	5019	TRP	CZ3-CH2	-5.82	1.30	1.40
1	B	5019	TRP	CZ3-CH2	-5.82	1.30	1.40
1	C	5019	TRP	CZ3-CH2	-5.82	1.30	1.40
1	D	5019	TRP	CZ3-CH2	-5.81	1.30	1.40
1	A	5018	CYS	CA-CB	-5.75	1.41	1.53
1	B	5018	CYS	CA-CB	-5.75	1.41	1.53
1	C	5018	CYS	CA-CB	-5.75	1.41	1.53
1	D	5018	CYS	CA-CB	-5.75	1.41	1.53
1	A	3158	LEU	CA-CB	5.63	1.66	1.53
1	B	3158	LEU	CA-CB	5.63	1.66	1.53
1	C	3158	LEU	CA-CB	5.63	1.66	1.53
1	D	3158	LEU	CA-CB	5.62	1.66	1.53
1	A	5025	GLY	CA-C	-5.52	1.43	1.51
1	C	5025	GLY	CA-C	-5.52	1.43	1.51
1	D	5025	GLY	CA-C	-5.52	1.43	1.51
1	A	631	LEU	C-N	5.51	1.46	1.34
1	B	631	LEU	C-N	5.51	1.46	1.34
1	C	631	LEU	C-N	5.51	1.46	1.34
1	D	631	LEU	C-N	5.51	1.46	1.34
1	B	5025	GLY	CA-C	-5.49	1.43	1.51
1	A	485	SER	N-CA	5.45	1.57	1.46
1	B	485	SER	N-CA	5.45	1.57	1.46
1	C	485	SER	N-CA	5.45	1.57	1.46
1	D	485	SER	N-CA	5.45	1.57	1.46
1	A	3837	GLN	C-N	-5.27	1.22	1.34
1	B	3837	GLN	C-N	-5.27	1.22	1.34
1	C	3837	GLN	C-N	-5.27	1.22	1.34
1	D	5019	TRP	CD2-CE3	-5.26	1.32	1.40
1	D	3837	GLN	C-N	-5.26	1.22	1.34
1	A	5019	TRP	CD2-CE3	-5.21	1.32	1.40
1	B	5019	TRP	CD2-CE3	-5.21	1.32	1.40
1	C	5019	TRP	CD2-CE3	-5.21	1.32	1.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D	712	TYR	CA-C	-5.16	1.39	1.52
1	B	766	GLY	CA-C	-5.16	1.43	1.51
1	A	712	TYR	CA-C	-5.14	1.39	1.52
1	C	712	TYR	CA-C	-5.14	1.39	1.52
1	B	712	TYR	CA-C	-5.12	1.39	1.52
1	A	766	GLY	CA-C	-5.10	1.43	1.51
1	A	5023	PRO	CA-C	-5.09	1.42	1.52
1	B	5023	PRO	CA-C	-5.09	1.42	1.52
1	C	5023	PRO	CA-C	-5.09	1.42	1.52
1	D	5023	PRO	CA-C	-5.09	1.42	1.52
1	A	708	GLY	CA-C	-5.09	1.43	1.51
1	D	708	GLY	CA-C	-5.09	1.43	1.51
1	B	708	GLY	CA-C	-5.08	1.43	1.51
1	C	708	GLY	CA-C	-5.08	1.43	1.51
1	C	766	GLY	CA-C	-5.07	1.43	1.51
1	D	766	GLY	CA-C	-5.07	1.43	1.51
1	A	5022	PHE	C-O	-5.03	1.13	1.23
1	B	5022	PHE	C-O	-5.03	1.13	1.23
1	D	5022	PHE	C-O	-5.03	1.13	1.23
1	A	746	CYS	N-CA	-5.02	1.36	1.46
1	B	746	CYS	N-CA	-5.02	1.36	1.46
1	D	746	CYS	N-CA	-5.02	1.36	1.46
1	C	5022	PHE	C-O	-5.01	1.13	1.23
1	C	746	CYS	N-CA	-5.01	1.36	1.46

All (1048) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	2047	GLU	N-CA-CB	-38.23	41.78	110.60
1	C	2047	GLU	N-CA-CB	-38.23	41.78	110.60
1	D	2047	GLU	N-CA-CB	-38.23	41.78	110.60
1	B	2047	GLU	N-CA-CB	-38.22	41.80	110.60
1	A	4168	GLU	N-CA-CB	-30.53	55.64	110.60
1	B	4168	GLU	N-CA-CB	-30.53	55.64	110.60
1	C	4168	GLU	N-CA-CB	-30.53	55.64	110.60
1	D	4168	GLU	N-CA-CB	-30.53	55.64	110.60
1	B	631	LEU	O-C-N	26.35	164.86	122.70
1	C	631	LEU	O-C-N	26.35	164.86	122.70
1	A	631	LEU	O-C-N	26.34	164.84	122.70
1	D	631	LEU	O-C-N	26.34	164.84	122.70
1	A	631	LEU	CA-C-N	-25.24	61.66	117.20
1	B	631	LEU	CA-C-N	-25.24	61.66	117.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	631	LEU	CA-C-N	-25.24	61.66	117.20
1	D	631	LEU	CA-C-N	-25.24	61.66	117.20
1	D	3217	SER	N-CA-CB	21.34	142.52	110.50
1	A	3217	SER	N-CA-CB	21.33	142.50	110.50
1	B	3217	SER	N-CA-CB	21.31	142.46	110.50
1	C	3217	SER	N-CA-CB	21.31	142.46	110.50
1	A	4684	ASP	N-CA-CB	-17.79	78.59	110.60
1	B	4684	ASP	N-CA-CB	-17.79	78.59	110.60
1	C	4684	ASP	N-CA-CB	-17.79	78.59	110.60
1	D	4684	ASP	N-CA-CB	-17.79	78.59	110.60
1	B	4691	GLN	N-CA-CB	17.53	142.16	110.60
1	A	4691	GLN	N-CA-CB	17.53	142.16	110.60
1	D	4691	GLN	N-CA-CB	17.53	142.16	110.60
1	C	4691	GLN	N-CA-CB	17.51	142.12	110.60
1	A	3773	ARG	CB-CA-C	16.63	143.66	110.40
1	B	3773	ARG	CB-CA-C	16.63	143.66	110.40
1	C	3773	ARG	CB-CA-C	16.63	143.66	110.40
1	D	3773	ARG	CB-CA-C	16.63	143.66	110.40
1	B	2047	GLU	CB-CA-C	-16.26	77.87	110.40
1	A	2047	GLU	CB-CA-C	-16.25	77.90	110.40
1	C	2047	GLU	CB-CA-C	-16.25	77.90	110.40
1	D	2047	GLU	CB-CA-C	-16.25	77.90	110.40
1	A	3217	SER	CB-CA-C	-15.28	81.07	110.10
1	D	3217	SER	CB-CA-C	-15.28	81.07	110.10
1	B	3217	SER	CB-CA-C	-15.28	81.07	110.10
1	C	3217	SER	CB-CA-C	-15.28	81.07	110.10
1	B	1537	ASN	N-CA-CB	-15.15	83.33	110.60
1	A	1537	ASN	N-CA-CB	-15.14	83.34	110.60
1	C	1537	ASN	N-CA-CB	-15.14	83.34	110.60
1	D	1537	ASN	N-CA-CB	-15.14	83.34	110.60
1	A	1538	THR	N-CA-CB	14.97	138.74	110.30
1	B	1538	THR	N-CA-CB	14.97	138.74	110.30
1	C	1538	THR	N-CA-CB	14.97	138.74	110.30
1	D	1538	THR	N-CA-CB	14.97	138.74	110.30
1	B	1750	PRO	C-N-CA	-14.80	91.22	122.30
1	A	1750	PRO	C-N-CA	-14.79	91.24	122.30
1	C	1750	PRO	C-N-CA	-14.79	91.24	122.30
1	D	1750	PRO	C-N-CA	-14.79	91.24	122.30
1	A	3090	ALA	N-CA-CB	-14.38	89.97	110.10
1	C	3090	ALA	N-CA-CB	-14.38	89.97	110.10
1	D	3090	ALA	N-CA-CB	-14.38	89.97	110.10
1	B	3090	ALA	N-CA-CB	-14.38	89.97	110.10

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	4684	ASP	CB-CA-C	14.23	138.86	110.40
1	B	4684	ASP	CB-CA-C	14.23	138.86	110.40
1	D	4684	ASP	CB-CA-C	14.23	138.86	110.40
1	C	4684	ASP	CB-CA-C	14.21	138.83	110.40
1	A	4859	PHE	N-CA-CB	-14.13	85.17	110.60
1	B	4859	PHE	N-CA-CB	-14.13	85.17	110.60
1	D	4859	PHE	N-CA-CB	-14.13	85.17	110.60
1	C	4859	PHE	N-CA-CB	-14.12	85.18	110.60
1	A	4682	GLU	CB-CA-C	-13.74	82.92	110.40
1	C	4682	GLU	CB-CA-C	-13.74	82.92	110.40
1	D	4682	GLU	CB-CA-C	-13.74	82.92	110.40
1	B	4682	GLU	CB-CA-C	-13.72	82.95	110.40
1	A	1850	VAL	CB-CA-C	-13.48	85.78	111.40
1	C	1850	VAL	CB-CA-C	-13.48	85.78	111.40
1	D	1850	VAL	CB-CA-C	-13.48	85.78	111.40
1	B	1850	VAL	CB-CA-C	-13.46	85.82	111.40
1	A	4092	ASP	N-CA-C	-13.33	75.00	111.00
1	C	4092	ASP	N-CA-C	-13.33	75.00	111.00
1	D	4092	ASP	N-CA-C	-13.33	75.00	111.00
1	B	4092	ASP	N-CA-C	-13.32	75.04	111.00
1	A	2586	VAL	CA-C-N	-13.09	88.40	117.20
1	B	2586	VAL	CA-C-N	-13.09	88.40	117.20
1	C	2586	VAL	CA-C-N	-13.09	88.40	117.20
1	D	2586	VAL	CA-C-N	-13.09	88.40	117.20
1	A	4179	GLY	N-CA-C	-12.86	80.94	113.10
1	B	4179	GLY	N-CA-C	-12.86	80.94	113.10
1	D	4179	GLY	N-CA-C	-12.86	80.94	113.10
1	C	4179	GLY	N-CA-C	-12.86	80.95	113.10
1	A	1657	LEU	CB-CA-C	12.85	134.61	110.20
1	B	1657	LEU	CB-CA-C	12.85	134.61	110.20
1	D	1657	LEU	CB-CA-C	12.85	134.61	110.20
1	C	1657	LEU	CB-CA-C	12.85	134.60	110.20
1	A	3090	ALA	CB-CA-C	12.31	128.57	110.10
1	B	3090	ALA	CB-CA-C	12.31	128.57	110.10
1	D	3090	ALA	CB-CA-C	12.31	128.57	110.10
1	C	3090	ALA	CB-CA-C	12.30	128.56	110.10
1	B	1750	PRO	CA-C-N	-12.17	91.86	116.20
1	A	1750	PRO	CA-C-N	-12.16	91.88	116.20
1	C	1750	PRO	CA-C-N	-12.16	91.88	116.20
1	D	1750	PRO	CA-C-N	-12.16	91.88	116.20
1	B	4557	ARG	N-CA-CB	-10.65	91.42	110.60
1	A	1538	THR	CB-CA-C	-10.65	82.85	111.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	1538	THR	CB-CA-C	-10.65	82.85	111.60
1	C	1538	THR	CB-CA-C	-10.65	82.85	111.60
1	D	1538	THR	CB-CA-C	-10.65	82.85	111.60
1	A	4557	ARG	N-CA-CB	-10.63	91.46	110.60
1	C	4557	ARG	N-CA-CB	-10.63	91.46	110.60
1	D	4557	ARG	N-CA-CB	-10.63	91.46	110.60
1	A	1200	GLY	N-CA-C	-10.52	86.81	113.10
1	B	1200	GLY	N-CA-C	-10.52	86.81	113.10
1	C	1200	GLY	N-CA-C	-10.51	86.82	113.10
1	C	831	ARG	C-N-CA	10.51	147.96	121.70
1	D	1200	GLY	N-CA-C	-10.50	86.84	113.10
1	A	831	ARG	C-N-CA	10.49	147.93	121.70
1	D	831	ARG	C-N-CA	10.49	147.93	121.70
1	B	831	ARG	C-N-CA	10.48	147.91	121.70
1	A	4131	ARG	N-CA-C	-10.14	83.63	111.00
1	B	4131	ARG	N-CA-C	-10.14	83.63	111.00
1	C	4131	ARG	N-CA-C	-10.14	83.63	111.00
1	D	4131	ARG	N-CA-C	-10.14	83.63	111.00
1	B	1746	THR	N-CA-CB	-10.02	91.27	110.30
1	A	1746	THR	N-CA-CB	-10.00	91.30	110.30
1	C	1746	THR	N-CA-CB	-10.00	91.30	110.30
1	D	1746	THR	N-CA-CB	-9.99	91.32	110.30
1	A	3527	PRO	CB-CA-C	-9.51	88.22	112.00
1	B	3527	PRO	CB-CA-C	-9.51	88.22	112.00
1	C	3527	PRO	CB-CA-C	-9.51	88.22	112.00
1	D	3527	PRO	CB-CA-C	-9.49	88.28	112.00
1	A	3773	ARG	N-CA-CB	-9.48	93.54	110.60
1	C	3773	ARG	N-CA-CB	-9.48	93.54	110.60
1	D	3773	ARG	N-CA-CB	-9.48	93.54	110.60
1	B	3773	ARG	N-CA-CB	-9.47	93.56	110.60
1	D	4666	VAL	C-N-CD	9.40	148.15	128.40
1	D	1451	GLY	N-CA-C	-9.39	89.62	113.10
1	A	1451	GLY	N-CA-C	-9.39	89.63	113.10
1	A	4666	VAL	C-N-CD	9.39	148.12	128.40
1	B	4666	VAL	C-N-CD	9.39	148.12	128.40
1	C	4666	VAL	C-N-CD	9.39	148.12	128.40
1	B	1451	GLY	N-CA-C	-9.38	89.64	113.10
1	C	1451	GLY	N-CA-C	-9.38	89.64	113.10
1	C	262	LEU	N-CA-C	-9.31	85.88	111.00
1	A	262	LEU	N-CA-C	-9.30	85.90	111.00
1	B	262	LEU	N-CA-C	-9.30	85.90	111.00
1	A	1745	ILE	N-CA-CB	-9.29	89.43	110.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	1745	ILE	N-CA-CB	-9.29	89.43	110.80
1	C	1745	ILE	N-CA-CB	-9.29	89.43	110.80
1	D	262	LEU	N-CA-C	-9.29	85.91	111.00
1	D	1745	ILE	N-CA-CB	-9.29	89.43	110.80
1	A	1620	ALA	N-CA-C	-9.27	85.96	111.00
1	B	1620	ALA	N-CA-C	-9.27	85.96	111.00
1	D	1620	ALA	N-CA-C	-9.27	85.96	111.00
1	C	1620	ALA	N-CA-C	-9.27	85.97	111.00
1	B	4091	LYS	C-N-CA	9.26	144.86	121.70
1	A	4091	LYS	C-N-CA	9.25	144.82	121.70
1	C	4091	LYS	C-N-CA	9.25	144.82	121.70
1	D	4091	LYS	C-N-CA	9.25	144.82	121.70
1	A	4555	LEU	N-CA-CB	-9.15	92.10	110.40
1	B	4555	LEU	N-CA-CB	-9.15	92.10	110.40
1	C	4555	LEU	N-CA-CB	-9.15	92.10	110.40
1	D	4555	LEU	N-CA-CB	-9.15	92.10	110.40
1	A	5022	PHE	N-CA-C	-9.06	86.54	111.00
1	B	5022	PHE	N-CA-C	-9.06	86.54	111.00
1	D	5022	PHE	N-CA-C	-9.06	86.54	111.00
1	C	5022	PHE	N-CA-C	-9.05	86.56	111.00
1	B	1687	SER	O-C-N	-8.95	108.37	122.70
1	A	1850	VAL	N-CA-CB	-8.95	91.81	111.50
1	B	1850	VAL	N-CA-CB	-8.95	91.81	111.50
1	C	1850	VAL	N-CA-CB	-8.95	91.81	111.50
1	D	1850	VAL	N-CA-CB	-8.95	91.81	111.50
1	A	1687	SER	O-C-N	-8.93	108.41	122.70
1	D	1687	SER	O-C-N	-8.93	108.41	122.70
1	C	1687	SER	O-C-N	-8.92	108.42	122.70
1	A	148	TRP	N-CA-C	-8.84	87.14	111.00
1	B	148	TRP	N-CA-C	-8.84	87.14	111.00
1	C	148	TRP	N-CA-C	-8.84	87.14	111.00
1	D	148	TRP	N-CA-C	-8.84	87.14	111.00
1	A	3572	GLN	N-CA-CB	-8.80	94.75	110.60
1	B	3572	GLN	N-CA-CB	-8.80	94.75	110.60
1	C	3572	GLN	N-CA-CB	-8.80	94.75	110.60
1	D	3572	GLN	N-CA-CB	-8.80	94.75	110.60
1	D	1747	LEU	CB-CA-C	-8.73	93.61	110.20
1	A	1747	LEU	CB-CA-C	-8.72	93.63	110.20
1	B	1747	LEU	CB-CA-C	-8.72	93.63	110.20
1	C	1747	LEU	CB-CA-C	-8.72	93.63	110.20
1	A	4175	ARG	C-N-CD	8.67	146.61	128.40
1	D	4175	ARG	C-N-CD	8.66	146.59	128.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	4175	ARG	C-N-CD	8.66	146.58	128.40
1	C	4175	ARG	C-N-CD	8.65	146.58	128.40
1	C	253	CYS	N-CA-C	-8.58	87.84	111.00
1	A	253	CYS	N-CA-C	-8.57	87.85	111.00
1	D	253	CYS	N-CA-C	-8.57	87.85	111.00
1	B	253	CYS	N-CA-C	-8.57	87.87	111.00
1	B	2464	ASP	N-CA-C	-8.40	88.31	111.00
1	A	2464	ASP	N-CA-C	-8.40	88.32	111.00
1	C	2464	ASP	N-CA-C	-8.40	88.32	111.00
1	D	2464	ASP	N-CA-C	-8.40	88.32	111.00
1	D	3527	PRO	N-CA-CB	-8.36	93.27	103.30
1	A	3527	PRO	N-CA-CB	-8.35	93.28	103.30
1	B	3527	PRO	N-CA-CB	-8.35	93.28	103.30
1	C	3527	PRO	N-CA-CB	-8.35	93.28	103.30
1	C	4092	ASP	CB-CA-C	8.32	127.04	110.40
1	B	4092	ASP	CB-CA-C	8.31	127.02	110.40
1	D	4092	ASP	CB-CA-C	8.30	126.99	110.40
1	A	4092	ASP	CB-CA-C	8.29	126.99	110.40
1	C	394	GLN	N-CA-C	-8.22	88.81	111.00
1	A	394	GLN	N-CA-C	-8.21	88.83	111.00
1	D	394	GLN	N-CA-C	-8.21	88.83	111.00
1	B	394	GLN	N-CA-C	-8.21	88.83	111.00
1	A	1439	VAL	N-CA-C	-8.20	88.86	111.00
1	A	4168	GLU	CB-CA-C	8.20	126.80	110.40
1	B	1439	VAL	N-CA-C	-8.20	88.86	111.00
1	B	4168	GLU	CB-CA-C	8.20	126.80	110.40
1	C	1439	VAL	N-CA-C	-8.20	88.86	111.00
1	C	4168	GLU	CB-CA-C	8.20	126.80	110.40
1	D	1439	VAL	N-CA-C	-8.20	88.86	111.00
1	D	4168	GLU	CB-CA-C	8.20	126.80	110.40
1	C	685	GLY	N-CA-C	-8.05	92.97	113.10
1	A	685	GLY	N-CA-C	-8.05	92.98	113.10
1	B	2453	ILE	N-CA-C	-8.05	89.27	111.00
1	D	685	GLY	N-CA-C	-8.05	92.98	113.10
1	A	2453	ILE	N-CA-C	-8.04	89.29	111.00
1	B	685	GLY	N-CA-C	-8.04	93.00	113.10
1	C	2453	ILE	N-CA-C	-8.04	89.29	111.00
1	D	2453	ILE	N-CA-C	-8.04	89.29	111.00
1	B	3152	PHE	N-CA-CB	-8.04	96.13	110.60
1	A	3152	PHE	N-CA-CB	-8.02	96.17	110.60
1	C	3152	PHE	N-CA-CB	-8.02	96.17	110.60
1	D	3152	PHE	N-CA-CB	-8.02	96.17	110.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	1612	PHE	N-CA-C	8.01	132.63	111.00
1	A	1612	PHE	N-CA-C	8.00	132.59	111.00
1	D	1612	PHE	N-CA-C	8.00	132.59	111.00
1	C	1612	PHE	N-CA-C	7.98	132.56	111.00
1	D	393	CYS	N-CA-C	-7.97	89.47	111.00
1	A	393	CYS	N-CA-C	-7.97	89.48	111.00
1	B	393	CYS	N-CA-C	-7.97	89.48	111.00
1	C	393	CYS	N-CA-C	-7.97	89.48	111.00
1	A	831	ARG	N-CA-C	-7.96	89.51	111.00
1	B	831	ARG	N-CA-C	-7.96	89.51	111.00
1	D	831	ARG	N-CA-C	-7.96	89.51	111.00
1	C	831	ARG	N-CA-C	-7.95	89.53	111.00
1	B	261	ARG	N-CA-C	-7.93	89.58	111.00
1	B	439	GLU	N-CA-C	-7.93	89.58	111.00
1	D	261	ARG	N-CA-C	-7.93	89.59	111.00
1	A	261	ARG	N-CA-C	-7.93	89.60	111.00
1	C	261	ARG	N-CA-C	-7.93	89.60	111.00
1	A	439	GLU	N-CA-C	-7.92	89.61	111.00
1	D	439	GLU	N-CA-C	-7.92	89.61	111.00
1	C	439	GLU	N-CA-C	-7.92	89.62	111.00
1	A	4667	PRO	CA-N-CD	-7.85	100.51	111.50
1	B	4667	PRO	CA-N-CD	-7.85	100.51	111.50
1	C	4667	PRO	CA-N-CD	-7.85	100.51	111.50
1	D	4667	PRO	CA-N-CD	-7.85	100.51	111.50
1	B	669	ASP	N-CA-C	7.83	132.15	111.00
1	C	646	PRO	N-CA-CB	7.83	112.69	103.30
1	A	669	ASP	N-CA-C	7.82	132.12	111.00
1	C	669	ASP	N-CA-C	7.82	132.12	111.00
1	D	669	ASP	N-CA-C	7.82	132.12	111.00
1	A	646	PRO	N-CA-CB	7.80	112.66	103.30
1	B	646	PRO	N-CA-CB	7.80	112.66	103.30
1	D	646	PRO	N-CA-CB	7.80	112.66	103.30
1	C	252	VAL	N-CA-C	7.73	131.88	111.00
1	A	252	VAL	N-CA-C	7.73	131.87	111.00
1	B	252	VAL	N-CA-C	7.73	131.87	111.00
1	D	252	VAL	N-CA-C	7.73	131.87	111.00
1	D	348	VAL	N-CA-C	-7.72	90.16	111.00
1	A	348	VAL	N-CA-C	-7.71	90.18	111.00
1	A	1619	ARG	N-CA-C	-7.71	90.19	111.00
1	D	1619	ARG	N-CA-C	-7.71	90.19	111.00
1	B	348	VAL	N-CA-C	-7.71	90.20	111.00
1	C	348	VAL	N-CA-C	-7.71	90.20	111.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	1619	ARG	N-CA-C	-7.69	90.23	111.00
1	C	1619	ARG	N-CA-C	-7.69	90.23	111.00
1	A	3062	PRO	N-CA-C	-7.66	92.18	112.10
1	B	3062	PRO	N-CA-C	-7.66	92.18	112.10
1	C	3062	PRO	N-CA-C	-7.66	92.18	112.10
1	D	3062	PRO	N-CA-C	-7.66	92.18	112.10
1	A	2737	PRO	N-CA-CB	7.65	112.48	103.30
1	B	2737	PRO	N-CA-CB	7.65	112.48	103.30
1	C	2737	PRO	N-CA-CB	7.65	112.48	103.30
1	D	2737	PRO	N-CA-CB	7.65	112.48	103.30
1	A	2855	TYR	N-CA-C	-7.64	90.36	111.00
1	B	2855	TYR	N-CA-C	-7.64	90.36	111.00
1	C	2855	TYR	N-CA-C	-7.64	90.36	111.00
1	D	2855	TYR	N-CA-C	-7.64	90.36	111.00
1	A	484	LEU	C-N-CA	7.62	140.74	121.70
1	B	484	LEU	C-N-CA	7.62	140.74	121.70
1	C	484	LEU	C-N-CA	7.62	140.74	121.70
1	D	484	LEU	C-N-CA	7.60	140.71	121.70
1	D	112	ALA	N-CA-C	7.59	131.50	111.00
1	B	112	ALA	N-CA-C	7.59	131.48	111.00
1	A	112	ALA	N-CA-C	7.58	131.48	111.00
1	C	112	ALA	N-CA-C	7.58	131.48	111.00
1	A	2202	GLY	N-CA-C	-7.57	94.18	113.10
1	C	2202	GLY	N-CA-C	-7.57	94.18	113.10
1	D	2202	GLY	N-CA-C	-7.57	94.18	113.10
1	B	2202	GLY	N-CA-C	-7.56	94.21	113.10
1	A	73	LEU	N-CA-C	-7.46	90.86	111.00
1	B	73	LEU	N-CA-C	-7.46	90.86	111.00
1	D	73	LEU	N-CA-C	-7.46	90.86	111.00
1	C	73	LEU	N-CA-C	-7.46	90.86	111.00
1	A	4691	GLN	CB-CA-C	-7.31	95.78	110.40
1	B	4691	GLN	CB-CA-C	-7.31	95.78	110.40
1	C	4691	GLN	CB-CA-C	-7.31	95.78	110.40
1	D	4691	GLN	CB-CA-C	-7.30	95.80	110.40
1	A	279	PRO	N-CA-CB	7.28	112.04	103.30
1	C	279	PRO	N-CA-CB	7.28	112.04	103.30
1	D	279	PRO	N-CA-CB	7.28	112.04	103.30
1	B	279	PRO	N-CA-CB	7.25	112.00	103.30
1	D	1546	THR	N-CA-C	-7.22	91.51	111.00
1	A	1546	THR	N-CA-C	-7.21	91.54	111.00
1	B	1546	THR	N-CA-C	-7.21	91.54	111.00
1	C	1546	THR	N-CA-C	-7.21	91.54	111.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	1438	ARG	N-CA-C	-7.19	91.59	111.00
1	C	1438	ARG	N-CA-C	-7.19	91.59	111.00
1	B	1438	ARG	N-CA-C	-7.18	91.61	111.00
1	D	1438	ARG	N-CA-C	-7.18	91.61	111.00
1	A	1536	SER	CB-CA-C	-7.15	96.51	110.10
1	B	1536	SER	CB-CA-C	-7.15	96.51	110.10
1	C	1536	SER	CB-CA-C	-7.15	96.51	110.10
1	D	1536	SER	CB-CA-C	-7.15	96.51	110.10
1	C	733	PRO	N-CA-CB	7.09	111.80	103.30
1	D	4803	HIS	N-CA-C	-7.08	91.87	111.00
1	A	4803	HIS	N-CA-C	-7.08	91.87	111.00
1	B	4803	HIS	N-CA-C	-7.08	91.87	111.00
1	C	4803	HIS	N-CA-C	-7.08	91.87	111.00
1	A	166	GLY	N-CA-C	7.06	130.75	113.10
1	C	166	GLY	N-CA-C	7.06	130.75	113.10
1	B	166	GLY	N-CA-C	7.06	130.75	113.10
1	D	166	GLY	N-CA-C	7.06	130.75	113.10
1	D	484	LEU	O-C-N	7.06	133.99	122.70
1	A	733	PRO	N-CA-CB	7.05	111.77	103.30
1	B	733	PRO	N-CA-CB	7.05	111.77	103.30
1	D	733	PRO	N-CA-CB	7.05	111.77	103.30
1	A	484	LEU	O-C-N	7.03	133.95	122.70
1	A	2859	PRO	N-CA-CB	7.03	111.74	103.30
1	B	484	LEU	O-C-N	7.03	133.95	122.70
1	C	484	LEU	O-C-N	7.03	133.95	122.70
1	C	2859	PRO	N-CA-CB	7.03	111.74	103.30
1	D	2859	PRO	N-CA-CB	7.03	111.74	103.30
1	C	1440	PHE	N-CA-C	-7.03	92.02	111.00
1	D	1440	PHE	N-CA-C	-7.03	92.02	111.00
1	A	1440	PHE	N-CA-C	-7.03	92.02	111.00
1	A	3988	ALA	N-CA-C	-7.03	92.02	111.00
1	B	1440	PHE	N-CA-C	-7.03	92.02	111.00
1	C	3988	ALA	N-CA-C	-7.03	92.02	111.00
1	D	3988	ALA	N-CA-C	-7.03	92.02	111.00
1	B	3988	ALA	N-CA-C	-7.02	92.05	111.00
1	A	832	GLU	C-N-CA	-7.01	107.57	122.30
1	D	832	GLU	C-N-CA	-7.01	107.57	122.30
1	B	2859	PRO	N-CA-CB	7.00	111.70	103.30
1	B	832	GLU	C-N-CA	-7.00	107.60	122.30
1	C	832	GLU	C-N-CA	-7.00	107.60	122.30
1	B	2462	PRO	N-CA-CB	6.96	111.65	103.30
1	A	745	SER	CA-C-N	-6.95	101.90	117.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	4176	PRO	CA-N-CD	-6.95	101.77	111.50
1	B	4176	PRO	CA-N-CD	-6.95	101.77	111.50
1	C	745	SER	CA-C-N	-6.95	101.90	117.20
1	D	745	SER	CA-C-N	-6.95	101.90	117.20
1	D	4176	PRO	CA-N-CD	-6.95	101.77	111.50
1	A	2462	PRO	N-CA-CB	6.95	111.64	103.30
1	C	2462	PRO	N-CA-CB	6.95	111.64	103.30
1	D	2462	PRO	N-CA-CB	6.95	111.64	103.30
1	C	4176	PRO	CA-N-CD	-6.95	101.77	111.50
1	B	745	SER	CA-C-N	-6.93	101.94	117.20
1	C	1750	PRO	N-CA-CB	6.92	111.60	103.30
1	A	3837	GLN	CA-C-O	6.92	134.62	120.10
1	B	3837	GLN	CA-C-O	6.92	134.62	120.10
1	C	3837	GLN	CA-C-O	6.92	134.62	120.10
1	D	3837	GLN	CA-C-O	6.92	134.62	120.10
1	B	2592	GLY	N-CA-C	-6.91	95.83	113.10
1	A	2592	GLY	N-CA-C	-6.90	95.86	113.10
1	C	2592	GLY	N-CA-C	-6.90	95.86	113.10
1	D	2592	GLY	N-CA-C	-6.90	95.86	113.10
1	A	1750	PRO	N-CA-CB	6.87	111.54	103.30
1	B	1750	PRO	N-CA-CB	6.87	111.54	103.30
1	D	1750	PRO	N-CA-CB	6.87	111.54	103.30
1	D	763	PRO	N-CA-CB	6.83	111.50	103.30
1	B	2857	PRO	N-CA-CB	6.82	111.48	103.30
1	A	763	PRO	N-CA-CB	6.82	111.48	103.30
1	C	763	PRO	N-CA-CB	6.82	111.48	103.30
1	C	2857	PRO	N-CA-CB	6.81	111.47	103.30
1	A	2857	PRO	N-CA-CB	6.80	111.47	103.30
1	D	2857	PRO	N-CA-CB	6.80	111.46	103.30
1	B	763	PRO	N-CA-CB	6.78	111.44	103.30
1	B	4894	GLY	C-N-CA	6.76	136.50	122.30
1	D	4894	GLY	C-N-CA	6.76	136.50	122.30
1	A	4894	GLY	C-N-CA	6.75	136.47	122.30
1	C	4894	GLY	C-N-CA	6.75	136.47	122.30
1	A	1201	HIS	N-CA-C	-6.69	92.93	111.00
1	C	1201	HIS	N-CA-C	-6.69	92.93	111.00
1	D	1201	HIS	N-CA-C	-6.69	92.94	111.00
1	B	1201	HIS	N-CA-C	-6.68	92.95	111.00
1	B	709	ASP	N-CA-C	-6.67	93.00	111.00
1	A	1290	ARG	N-CA-C	-6.66	93.01	111.00
1	B	1290	ARG	N-CA-C	-6.66	93.01	111.00
1	C	1290	ARG	N-CA-C	-6.66	93.01	111.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	1290	ARG	N-CA-C	-6.66	93.01	111.00
1	B	1437	VAL	N-CA-C	-6.66	93.03	111.00
1	D	1437	VAL	N-CA-C	-6.66	93.03	111.00
1	A	709	ASP	N-CA-C	-6.66	93.03	111.00
1	C	709	ASP	N-CA-C	-6.66	93.03	111.00
1	D	709	ASP	N-CA-C	-6.66	93.03	111.00
1	A	1437	VAL	N-CA-C	-6.65	93.04	111.00
1	C	1437	VAL	N-CA-C	-6.65	93.05	111.00
1	A	72	SER	N-CA-C	-6.65	93.05	111.00
1	B	72	SER	N-CA-C	-6.65	93.05	111.00
1	C	72	SER	N-CA-C	-6.65	93.05	111.00
1	D	72	SER	N-CA-C	-6.65	93.05	111.00
1	B	4181	ILE	N-CA-C	-6.56	93.28	111.00
1	A	4181	ILE	N-CA-C	-6.55	93.30	111.00
1	C	4181	ILE	N-CA-C	-6.55	93.30	111.00
1	D	4181	ILE	N-CA-C	-6.55	93.30	111.00
1	B	765	GLN	C-N-CA	6.52	135.98	122.30
1	C	768	PHE	N-CA-C	6.52	128.59	111.00
1	A	768	PHE	N-CA-C	6.51	128.57	111.00
1	D	768	PHE	N-CA-C	6.51	128.57	111.00
1	D	765	GLN	C-N-CA	6.50	135.96	122.30
1	A	765	GLN	C-N-CA	6.50	135.95	122.30
1	B	768	PHE	N-CA-C	6.50	128.54	111.00
1	D	729	PRO	N-CA-CB	6.49	111.09	103.30
1	C	729	PRO	N-CA-CB	6.48	111.08	103.30
1	C	765	GLN	C-N-CA	6.48	135.90	122.30
1	A	160	GLY	N-CA-C	-6.47	96.92	113.10
1	B	160	GLY	N-CA-C	-6.47	96.92	113.10
1	D	160	GLY	N-CA-C	-6.47	96.92	113.10
1	A	729	PRO	N-CA-CB	6.47	111.07	103.30
1	B	729	PRO	N-CA-CB	6.47	111.07	103.30
1	C	160	GLY	N-CA-C	-6.46	96.95	113.10
1	D	1823	GLY	N-CA-C	-6.45	96.96	113.10
1	A	1823	GLY	N-CA-C	-6.44	96.99	113.10
1	B	1823	GLY	N-CA-C	-6.44	96.99	113.10
1	C	1823	GLY	N-CA-C	-6.44	97.00	113.10
1	A	4183	ILE	N-CA-C	-6.40	93.71	111.00
1	B	4183	ILE	N-CA-C	-6.40	93.71	111.00
1	C	4183	ILE	N-CA-C	-6.40	93.71	111.00
1	D	4183	ILE	N-CA-C	-6.39	93.73	111.00
1	B	1546	THR	C-N-CA	6.39	137.67	121.70
1	C	1546	THR	C-N-CA	6.39	137.67	121.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	1546	THR	C-N-CA	6.39	137.67	121.70
1	D	1546	THR	C-N-CA	6.39	137.67	121.70
1	D	918	ARG	N-CA-C	6.36	128.18	111.00
1	A	918	ARG	N-CA-C	6.36	128.16	111.00
1	B	918	ARG	N-CA-C	6.36	128.16	111.00
1	C	918	ARG	N-CA-C	6.36	128.16	111.00
1	B	4182	GLU	N-CA-C	-6.34	93.89	111.00
1	A	2586	VAL	CB-CA-C	-6.33	99.36	111.40
1	C	2586	VAL	CB-CA-C	-6.33	99.36	111.40
1	D	2586	VAL	CB-CA-C	-6.33	99.36	111.40
1	A	1556	PRO	N-CA-C	6.33	128.56	112.10
1	D	1556	PRO	N-CA-C	6.33	128.56	112.10
1	D	2748	PRO	N-CA-CB	6.33	110.90	103.30
1	C	1556	PRO	N-CA-C	6.33	128.56	112.10
1	C	4182	GLU	N-CA-C	-6.33	93.90	111.00
1	B	1556	PRO	N-CA-C	6.33	128.56	112.10
1	A	673	PRO	N-CA-CB	6.33	110.89	103.30
1	B	673	PRO	N-CA-CB	6.33	110.89	103.30
1	C	673	PRO	N-CA-CB	6.33	110.89	103.30
1	D	673	PRO	N-CA-CB	6.33	110.89	103.30
1	A	4182	GLU	N-CA-C	-6.32	93.94	111.00
1	B	2586	VAL	CB-CA-C	-6.31	99.41	111.40
1	B	438	ILE	N-CA-C	6.31	128.03	111.00
1	C	438	ILE	N-CA-C	6.31	128.03	111.00
1	A	2748	PRO	N-CA-CB	6.30	110.87	103.30
1	C	2748	PRO	N-CA-CB	6.30	110.87	103.30
1	D	438	ILE	N-CA-C	6.30	128.00	111.00
1	D	4182	GLU	N-CA-C	-6.29	94.00	111.00
1	A	438	ILE	N-CA-C	6.29	128.00	111.00
1	D	1197	GLY	N-CA-C	6.29	128.82	113.10
1	C	1197	GLY	N-CA-C	6.29	128.82	113.10
1	B	2748	PRO	N-CA-CB	6.28	110.84	103.30
1	A	1111	PRO	N-CA-CB	6.28	110.84	103.30
1	C	1111	PRO	N-CA-CB	6.28	110.84	103.30
1	D	1111	PRO	N-CA-CB	6.28	110.84	103.30
1	A	1197	GLY	N-CA-C	6.28	128.79	113.10
1	B	1197	GLY	N-CA-C	6.28	128.79	113.10
1	B	1111	PRO	N-CA-CB	6.27	110.82	103.30
1	C	2739	PRO	N-CA-CB	6.26	110.81	103.30
1	D	147	TRP	N-CA-C	-6.26	94.10	111.00
1	B	4179	GLY	CA-C-N	6.26	130.97	117.20
1	D	4179	GLY	CA-C-N	6.26	130.97	117.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	2739	PRO	N-CA-CB	6.25	110.80	103.30
1	B	2739	PRO	N-CA-CB	6.25	110.80	103.30
1	D	2739	PRO	N-CA-CB	6.25	110.80	103.30
1	A	147	TRP	N-CA-C	-6.25	94.12	111.00
1	B	147	TRP	N-CA-C	-6.25	94.12	111.00
1	C	147	TRP	N-CA-C	-6.25	94.12	111.00
1	A	752	VAL	N-CA-C	-6.25	94.13	111.00
1	D	752	VAL	N-CA-C	-6.25	94.13	111.00
1	C	752	VAL	N-CA-C	-6.24	94.15	111.00
1	A	1450	VAL	N-CA-C	-6.24	94.16	111.00
1	A	4179	GLY	CA-C-N	6.24	130.93	117.20
1	B	1450	VAL	N-CA-C	-6.24	94.16	111.00
1	D	1450	VAL	N-CA-C	-6.24	94.16	111.00
1	B	752	VAL	N-CA-C	-6.24	94.16	111.00
1	C	1450	VAL	N-CA-C	-6.23	94.18	111.00
1	C	4179	GLY	CA-C-N	6.22	130.90	117.20
1	A	392	ARG	N-CA-C	-6.21	94.23	111.00
1	B	392	ARG	N-CA-C	-6.21	94.23	111.00
1	C	392	ARG	N-CA-C	-6.21	94.23	111.00
1	D	392	ARG	N-CA-C	-6.21	94.23	111.00
1	C	152	PRO	N-CA-CB	6.20	110.74	103.30
1	A	1190	PRO	N-CA-CB	6.19	110.73	103.30
1	C	1190	PRO	N-CA-CB	6.19	110.73	103.30
1	D	1190	PRO	N-CA-CB	6.19	110.73	103.30
1	C	5017	ARG	N-CA-C	-6.18	94.30	111.00
1	D	5017	ARG	N-CA-C	-6.18	94.30	111.00
1	A	152	PRO	N-CA-CB	6.18	110.72	103.30
1	A	5017	ARG	N-CA-C	-6.18	94.31	111.00
1	B	152	PRO	N-CA-CB	6.18	110.72	103.30
1	B	1190	PRO	N-CA-CB	6.18	110.72	103.30
1	B	5017	ARG	N-CA-C	-6.18	94.31	111.00
1	D	152	PRO	N-CA-CB	6.18	110.72	103.30
1	A	1587	PRO	N-CA-CB	6.17	110.70	103.30
1	C	1587	PRO	N-CA-CB	6.17	110.70	103.30
1	D	1587	PRO	N-CA-CB	6.17	110.70	103.30
1	B	1587	PRO	N-CA-CB	6.16	110.69	103.30
1	C	1829	PRO	N-CA-CB	6.15	110.68	103.30
1	A	174	VAL	N-CA-C	-6.15	94.40	111.00
1	C	174	VAL	N-CA-C	-6.15	94.40	111.00
1	A	1829	PRO	N-CA-CB	6.15	110.68	103.30
1	B	1829	PRO	N-CA-CB	6.15	110.68	103.30
1	D	1829	PRO	N-CA-CB	6.15	110.68	103.30

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	174	VAL	N-CA-C	-6.14	94.42	111.00
1	D	174	VAL	N-CA-C	-6.14	94.42	111.00
1	A	1539	PHE	N-CA-C	6.11	127.51	111.00
1	B	1539	PHE	N-CA-C	6.11	127.51	111.00
1	C	1539	PHE	N-CA-C	6.11	127.51	111.00
1	D	1539	PHE	N-CA-C	6.11	127.51	111.00
1	B	60	PRO	N-CA-CB	6.10	110.62	103.30
1	B	1210	SER	N-CA-C	-6.10	94.53	111.00
1	A	4836	GLN	N-CA-C	-6.10	94.53	111.00
1	B	4836	GLN	N-CA-C	-6.10	94.53	111.00
1	B	5020	ASP	CA-CB-CG	-6.10	99.98	113.40
1	C	4836	GLN	N-CA-C	-6.10	94.53	111.00
1	D	4836	GLN	N-CA-C	-6.10	94.53	111.00
1	C	2195	PRO	N-CA-CB	6.09	110.61	103.30
1	A	5020	ASP	CA-CB-CG	-6.09	100.00	113.40
1	C	5020	ASP	CA-CB-CG	-6.09	100.00	113.40
1	A	60	PRO	N-CA-CB	6.09	110.61	103.30
1	C	60	PRO	N-CA-CB	6.09	110.61	103.30
1	D	60	PRO	N-CA-CB	6.09	110.61	103.30
1	A	1210	SER	N-CA-C	-6.09	94.57	111.00
1	D	1210	SER	N-CA-C	-6.09	94.57	111.00
1	A	837	PRO	N-CA-CB	6.08	110.60	103.30
1	B	837	PRO	N-CA-CB	6.08	110.60	103.30
1	D	837	PRO	N-CA-CB	6.08	110.60	103.30
1	C	1210	SER	N-CA-C	-6.08	94.57	111.00
1	D	5020	ASP	CA-CB-CG	-6.08	100.01	113.40
1	A	2195	PRO	N-CA-CB	6.07	110.59	103.30
1	D	2195	PRO	N-CA-CB	6.07	110.59	103.30
1	A	1282	SER	N-CA-C	-6.07	94.62	111.00
1	B	1282	SER	N-CA-C	-6.07	94.62	111.00
1	C	837	PRO	N-CA-CB	6.07	110.58	103.30
1	C	1282	SER	N-CA-C	-6.07	94.62	111.00
1	D	1282	SER	N-CA-C	-6.07	94.62	111.00
1	B	2360	LYS	C-N-CD	6.06	141.13	128.40
1	C	2640	PRO	N-CA-CB	6.06	110.57	103.30
1	A	2640	PRO	N-CA-CB	6.05	110.56	103.30
1	B	2640	PRO	N-CA-CB	6.05	110.56	103.30
1	D	2640	PRO	N-CA-CB	6.05	110.56	103.30
1	A	2360	LYS	C-N-CD	6.05	141.10	128.40
1	C	2360	LYS	C-N-CD	6.05	141.10	128.40
1	D	2360	LYS	C-N-CD	6.05	141.10	128.40
1	B	2195	PRO	N-CA-CB	6.04	110.55	103.30

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	1749	PRO	CB-CA-C	-6.03	96.93	112.00
1	B	1749	PRO	CB-CA-C	-6.03	96.93	112.00
1	C	1749	PRO	CB-CA-C	-6.03	96.93	112.00
1	D	1749	PRO	CB-CA-C	-6.03	96.93	112.00
1	D	1688	HIS	N-CA-C	6.00	127.21	111.00
1	D	3303	PRO	N-CA-CB	6.00	110.50	103.30
1	D	1142	PRO	N-CA-CB	6.00	110.50	103.30
1	D	3351	PRO	N-CA-CB	6.00	110.50	103.30
1	A	1688	HIS	N-CA-C	6.00	127.19	111.00
1	A	3303	PRO	N-CA-CB	6.00	110.50	103.30
1	A	3695	PRO	N-CA-CB	6.00	110.50	103.30
1	B	1688	HIS	N-CA-C	6.00	127.19	111.00
1	B	3695	PRO	N-CA-CB	6.00	110.50	103.30
1	C	3303	PRO	N-CA-CB	6.00	110.50	103.30
1	B	832	GLU	CA-C-N	6.00	128.19	116.20
1	B	1552	VAL	N-CA-C	-6.00	94.81	111.00
1	C	832	GLU	CA-C-N	6.00	128.19	116.20
1	A	1552	VAL	N-CA-C	-5.99	94.82	111.00
1	C	1552	VAL	N-CA-C	-5.99	94.82	111.00
1	D	1552	VAL	N-CA-C	-5.99	94.82	111.00
1	A	865	PRO	N-CA-CB	5.99	110.49	103.30
1	D	865	PRO	N-CA-CB	5.99	110.49	103.30
1	B	1023	PRO	N-CA-CB	5.99	110.49	103.30
1	B	3303	PRO	N-CA-CB	5.99	110.49	103.30
1	C	1688	HIS	N-CA-C	5.99	127.17	111.00
1	A	5022	PHE	C-N-CD	5.99	140.97	128.40
1	C	1023	PRO	N-CA-CB	5.99	110.48	103.30
1	C	2658	PRO	N-CA-CB	5.99	110.48	103.30
1	C	5022	PHE	C-N-CD	5.99	140.97	128.40
1	D	5022	PHE	C-N-CD	5.99	140.97	128.40
1	B	3351	PRO	N-CA-CB	5.98	110.48	103.30
1	A	832	GLU	CA-C-N	5.98	128.16	116.20
1	A	1142	PRO	N-CA-CB	5.98	110.47	103.30
1	B	1142	PRO	N-CA-CB	5.98	110.47	103.30
1	C	1142	PRO	N-CA-CB	5.98	110.47	103.30
1	C	3695	PRO	N-CA-CB	5.98	110.47	103.30
1	D	832	GLU	CA-C-N	5.98	128.16	116.20
1	D	3695	PRO	N-CA-CB	5.98	110.47	103.30
1	A	3351	PRO	N-CA-CB	5.98	110.47	103.30
1	C	3351	PRO	N-CA-CB	5.98	110.47	103.30
1	C	2567	PRO	N-CA-CB	5.97	110.47	103.30
1	D	2567	PRO	N-CA-CB	5.97	110.47	103.30

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	2567	PRO	N-CA-CB	5.97	110.47	103.30
1	B	2567	PRO	N-CA-CB	5.97	110.47	103.30
1	B	3208	PRO	N-CA-CB	5.97	110.46	103.30
1	C	865	PRO	N-CA-CB	5.97	110.46	103.30
1	B	5022	PHE	C-N-CD	5.97	140.93	128.40
1	C	916	PRO	N-CA-CB	5.97	110.46	103.30
1	C	3208	PRO	N-CA-CB	5.96	110.46	103.30
1	A	1023	PRO	N-CA-CB	5.96	110.45	103.30
1	A	3297	PRO	N-CA-CB	5.96	110.45	103.30
1	B	1593	PRO	N-CA-CB	5.96	110.45	103.30
1	B	3297	PRO	N-CA-CB	5.96	110.45	103.30
1	D	1023	PRO	N-CA-CB	5.96	110.45	103.30
1	A	1706	PRO	N-CA-CB	5.96	110.45	103.30
1	C	1706	PRO	N-CA-CB	5.96	110.45	103.30
1	D	1706	PRO	N-CA-CB	5.96	110.45	103.30
1	C	1593	PRO	N-CA-CB	5.96	110.45	103.30
1	A	916	PRO	N-CA-CB	5.95	110.44	103.30
1	B	916	PRO	N-CA-CB	5.95	110.44	103.30
1	B	1706	PRO	N-CA-CB	5.95	110.44	103.30
1	D	916	PRO	N-CA-CB	5.95	110.44	103.30
1	A	1840	PRO	N-CA-CB	5.95	110.44	103.30
1	C	3297	PRO	N-CA-CB	5.95	110.44	103.30
1	D	1840	PRO	N-CA-CB	5.95	110.44	103.30
1	B	865	PRO	N-CA-CB	5.95	110.43	103.30
1	A	2366	PRO	N-CA-CB	5.94	110.43	103.30
1	C	3138	PRO	N-CA-CB	5.94	110.43	103.30
1	A	1593	PRO	N-CA-CB	5.94	110.43	103.30
1	A	3208	PRO	N-CA-CB	5.94	110.43	103.30
1	B	3360	PRO	N-CA-CB	5.94	110.43	103.30
1	C	1840	PRO	N-CA-CB	5.94	110.43	103.30
1	D	1593	PRO	N-CA-CB	5.94	110.43	103.30
1	D	3208	PRO	N-CA-CB	5.94	110.43	103.30
1	A	2658	PRO	N-CA-CB	5.94	110.43	103.30
1	B	2658	PRO	N-CA-CB	5.94	110.43	103.30
1	D	2658	PRO	N-CA-CB	5.94	110.43	103.30
1	B	2366	PRO	N-CA-CB	5.94	110.42	103.30
1	C	2366	PRO	N-CA-CB	5.94	110.42	103.30
1	D	2366	PRO	N-CA-CB	5.94	110.42	103.30
1	D	3297	PRO	N-CA-CB	5.94	110.42	103.30
1	B	3138	PRO	N-CA-CB	5.93	110.42	103.30
1	A	2860	PRO	N-CA-CB	5.93	110.42	103.30
1	D	2860	PRO	N-CA-CB	5.93	110.42	103.30

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	2860	PRO	N-CA-CB	5.93	110.42	103.30
1	A	3138	PRO	N-CA-CB	5.92	110.41	103.30
1	B	2325	PRO	N-CA-CB	5.92	110.41	103.30
1	D	3138	PRO	N-CA-CB	5.92	110.41	103.30
1	B	1840	PRO	N-CA-CB	5.92	110.40	103.30
1	B	350	HIS	N-CA-C	-5.91	95.03	111.00
1	A	3360	PRO	N-CA-CB	5.91	110.39	103.30
1	C	3360	PRO	N-CA-CB	5.91	110.39	103.30
1	D	3360	PRO	N-CA-CB	5.91	110.39	103.30
1	C	1233	PRO	N-CA-CB	5.91	110.39	103.30
1	B	1868	PRO	N-CA-CB	5.90	110.38	103.30
1	A	350	HIS	N-CA-C	-5.90	95.07	111.00
1	C	350	HIS	N-CA-C	-5.90	95.07	111.00
1	D	350	HIS	N-CA-C	-5.90	95.07	111.00
1	A	1774	PRO	N-CA-CB	5.89	110.37	103.30
1	B	1774	PRO	N-CA-CB	5.89	110.37	103.30
1	C	1774	PRO	N-CA-CB	5.89	110.37	103.30
1	C	2860	PRO	N-CA-CB	5.89	110.37	103.30
1	D	1774	PRO	N-CA-CB	5.89	110.37	103.30
1	A	1233	PRO	N-CA-CB	5.89	110.37	103.30
1	A	2325	PRO	N-CA-CB	5.89	110.37	103.30
1	B	1233	PRO	N-CA-CB	5.89	110.37	103.30
1	C	2325	PRO	N-CA-CB	5.89	110.37	103.30
1	D	1233	PRO	N-CA-CB	5.89	110.37	103.30
1	D	2325	PRO	N-CA-CB	5.89	110.37	103.30
1	A	1803	PRO	N-CA-CB	5.89	110.37	103.30
1	B	1803	PRO	N-CA-CB	5.89	110.37	103.30
1	C	1803	PRO	N-CA-CB	5.89	110.37	103.30
1	D	1803	PRO	N-CA-CB	5.89	110.37	103.30
1	A	1750	PRO	CB-CA-C	5.89	126.72	112.00
1	B	1750	PRO	CB-CA-C	5.89	126.72	112.00
1	D	1750	PRO	CB-CA-C	5.89	126.72	112.00
1	A	2139	PRO	N-CA-CB	5.88	110.36	103.30
1	B	2139	PRO	N-CA-CB	5.88	110.36	103.30
1	B	336	PRO	N-CA-CB	5.88	110.36	103.30
1	C	1750	PRO	CB-CA-C	5.88	126.70	112.00
1	D	753	PRO	N-CA-CB	5.88	110.35	103.30
1	A	1773	PRO	N-CA-CB	5.88	110.35	103.30
1	B	1773	PRO	N-CA-CB	5.88	110.35	103.30
1	C	1773	PRO	N-CA-CB	5.88	110.35	103.30
1	A	336	PRO	N-CA-CB	5.87	110.35	103.30
1	A	454	PRO	N-CA-CB	5.87	110.35	103.30

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	753	PRO	N-CA-CB	5.87	110.35	103.30
1	B	454	PRO	N-CA-CB	5.87	110.35	103.30
1	B	753	PRO	N-CA-CB	5.87	110.35	103.30
1	C	454	PRO	N-CA-CB	5.87	110.35	103.30
1	C	2903	PRO	N-CA-CB	5.87	110.35	103.30
1	D	454	PRO	N-CA-CB	5.87	110.35	103.30
1	D	2139	PRO	N-CA-CB	5.87	110.35	103.30
1	B	425	PRO	N-CA-CB	5.87	110.35	103.30
1	D	1773	PRO	N-CA-CB	5.87	110.34	103.30
1	C	2139	PRO	N-CA-CB	5.87	110.34	103.30
1	D	336	PRO	N-CA-CB	5.86	110.34	103.30
1	A	834	PRO	N-CA-CB	5.86	110.33	103.30
1	A	2903	PRO	N-CA-CB	5.86	110.33	103.30
1	B	834	PRO	N-CA-CB	5.86	110.33	103.30
1	B	2903	PRO	N-CA-CB	5.86	110.33	103.30
1	D	834	PRO	N-CA-CB	5.86	110.33	103.30
1	D	2903	PRO	N-CA-CB	5.86	110.33	103.30
1	A	425	PRO	N-CA-CB	5.86	110.33	103.30
1	D	425	PRO	N-CA-CB	5.86	110.33	103.30
1	A	1868	PRO	N-CA-CB	5.86	110.33	103.30
1	C	1868	PRO	N-CA-CB	5.86	110.33	103.30
1	D	1868	PRO	N-CA-CB	5.86	110.33	103.30
1	C	753	PRO	N-CA-CB	5.86	110.33	103.30
1	A	337	PRO	N-CA-CB	5.85	110.32	103.30
1	B	337	PRO	N-CA-CB	5.85	110.32	103.30
1	C	59	PRO	N-CA-CB	5.85	110.33	103.30
1	C	337	PRO	N-CA-CB	5.85	110.32	103.30
1	D	337	PRO	N-CA-CB	5.85	110.32	103.30
1	A	59	PRO	N-CA-CB	5.85	110.32	103.30
1	B	59	PRO	N-CA-CB	5.85	110.32	103.30
1	D	59	PRO	N-CA-CB	5.85	110.32	103.30
1	C	336	PRO	N-CA-CB	5.85	110.32	103.30
1	C	834	PRO	N-CA-CB	5.85	110.32	103.30
1	B	2528	PRO	N-CA-CB	5.85	110.31	103.30
1	B	3410	PRO	N-CA-CB	5.84	110.31	103.30
1	A	864	PRO	N-CA-CB	5.84	110.31	103.30
1	A	2528	PRO	N-CA-CB	5.84	110.31	103.30
1	B	864	PRO	N-CA-CB	5.84	110.31	103.30
1	C	864	PRO	N-CA-CB	5.84	110.31	103.30
1	C	2528	PRO	N-CA-CB	5.84	110.31	103.30
1	D	1624	LEU	N-CA-C	-5.84	95.23	111.00
1	C	425	PRO	N-CA-CB	5.83	110.30	103.30

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	1624	LEU	N-CA-C	-5.83	95.27	111.00
1	B	1624	LEU	N-CA-C	-5.83	95.27	111.00
1	B	3519	PRO	N-CA-CB	5.83	110.29	103.30
1	C	1624	LEU	N-CA-C	-5.83	95.27	111.00
1	D	1592	PRO	N-CA-CB	5.82	110.29	103.30
1	A	3519	PRO	N-CA-CB	5.82	110.28	103.30
1	C	3519	PRO	N-CA-CB	5.82	110.28	103.30
1	D	3519	PRO	N-CA-CB	5.82	110.28	103.30
1	A	3410	PRO	N-CA-CB	5.82	110.28	103.30
1	C	3410	PRO	N-CA-CB	5.82	110.28	103.30
1	D	3410	PRO	N-CA-CB	5.82	110.28	103.30
1	A	2053	PRO	N-CA-CB	5.81	110.28	103.30
1	B	2053	PRO	N-CA-CB	5.81	110.28	103.30
1	C	2053	PRO	N-CA-CB	5.81	110.28	103.30
1	D	2053	PRO	N-CA-CB	5.81	110.28	103.30
1	D	2528	PRO	N-CA-CB	5.81	110.27	103.30
1	D	864	PRO	N-CA-CB	5.81	110.27	103.30
1	D	1740	PRO	N-CA-CB	5.80	110.26	103.30
1	C	3302	PRO	N-CA-CB	5.79	110.25	103.30
1	A	1592	PRO	N-CA-CB	5.79	110.25	103.30
1	C	1592	PRO	N-CA-CB	5.79	110.25	103.30
1	B	1592	PRO	N-CA-CB	5.78	110.24	103.30
1	A	1740	PRO	N-CA-CB	5.77	110.22	103.30
1	B	1740	PRO	N-CA-CB	5.77	110.22	103.30
1	C	1740	PRO	N-CA-CB	5.77	110.22	103.30
1	A	3302	PRO	N-CA-CB	5.76	110.22	103.30
1	A	3427	PRO	N-CA-CB	5.76	110.22	103.30
1	C	3427	PRO	N-CA-CB	5.76	110.22	103.30
1	D	3302	PRO	N-CA-CB	5.76	110.22	103.30
1	C	51	PRO	N-CA-CB	5.76	110.22	103.30
1	A	2226	PRO	N-CA-CB	5.76	110.21	103.30
1	B	2226	PRO	N-CA-CB	5.76	110.21	103.30
1	C	2226	PRO	N-CA-CB	5.76	110.21	103.30
1	D	2226	PRO	N-CA-CB	5.76	110.21	103.30
1	A	51	PRO	N-CA-CB	5.76	110.21	103.30
1	A	437	PRO	N-CA-CB	5.76	110.21	103.30
1	B	437	PRO	N-CA-CB	5.76	110.21	103.30
1	C	437	PRO	N-CA-CB	5.76	110.21	103.30
1	D	51	PRO	N-CA-CB	5.76	110.21	103.30
1	D	437	PRO	N-CA-CB	5.76	110.21	103.30
1	A	2473	PRO	N-CA-CB	5.75	110.20	103.30
1	B	2473	PRO	N-CA-CB	5.75	110.20	103.30

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	2560	PRO	N-CA-CB	5.75	110.20	103.30
1	C	2473	PRO	N-CA-CB	5.75	110.20	103.30
1	D	2473	PRO	N-CA-CB	5.75	110.20	103.30
1	D	2560	PRO	N-CA-CB	5.75	110.20	103.30
1	A	3085	PRO	N-CA-CB	5.75	110.20	103.30
1	B	1199	VAL	N-CA-C	-5.75	95.48	111.00
1	B	3085	PRO	N-CA-CB	5.75	110.20	103.30
1	C	3085	PRO	N-CA-CB	5.75	110.20	103.30
1	B	3427	PRO	N-CA-CB	5.75	110.20	103.30
1	D	3567	PRO	N-CA-CB	5.75	110.19	103.30
1	A	1199	VAL	N-CA-C	-5.74	95.51	111.00
1	B	3302	PRO	N-CA-CB	5.74	110.19	103.30
1	D	1199	VAL	N-CA-C	-5.74	95.51	111.00
1	A	3567	PRO	N-CA-CB	5.74	110.19	103.30
1	C	3567	PRO	N-CA-CB	5.74	110.19	103.30
1	D	3427	PRO	N-CA-CB	5.74	110.18	103.30
1	C	1199	VAL	N-CA-C	-5.73	95.52	111.00
1	A	979	PRO	N-CA-CB	5.73	110.18	103.30
1	B	979	PRO	N-CA-CB	5.73	110.18	103.30
1	C	979	PRO	N-CA-CB	5.73	110.18	103.30
1	D	979	PRO	N-CA-CB	5.73	110.18	103.30
1	B	51	PRO	N-CA-CB	5.73	110.17	103.30
1	A	2560	PRO	N-CA-CB	5.73	110.17	103.30
1	C	2560	PRO	N-CA-CB	5.73	110.17	103.30
1	D	3085	PRO	N-CA-CB	5.72	110.17	103.30
1	B	3567	PRO	N-CA-CB	5.72	110.16	103.30
1	A	3301	PRO	N-CA-CB	5.72	110.16	103.30
1	B	3301	PRO	N-CA-CB	5.72	110.16	103.30
1	C	3301	PRO	N-CA-CB	5.72	110.16	103.30
1	D	3301	PRO	N-CA-CB	5.72	110.16	103.30
1	D	3697	PRO	N-CA-CB	5.69	110.13	103.30
1	A	3697	PRO	N-CA-CB	5.69	110.13	103.30
1	B	3697	PRO	N-CA-CB	5.69	110.13	103.30
1	C	3697	PRO	N-CA-CB	5.69	110.13	103.30
1	A	3645	PRO	N-CA-CB	5.69	110.13	103.30
1	B	3645	PRO	N-CA-CB	5.69	110.13	103.30
1	D	3645	PRO	N-CA-CB	5.69	110.13	103.30
1	C	455	PRO	N-CA-CB	5.68	110.11	103.30
1	C	2616	PRO	N-CA-CB	5.68	110.11	103.30
1	A	2808	PRO	N-CA-CB	5.67	110.11	103.30
1	C	2808	PRO	N-CA-CB	5.67	110.10	103.30
1	D	2808	PRO	N-CA-CB	5.67	110.10	103.30

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	455	PRO	N-CA-CB	5.66	110.10	103.30
1	C	3645	PRO	N-CA-CB	5.66	110.10	103.30
1	D	455	PRO	N-CA-CB	5.66	110.10	103.30
1	A	2616	PRO	N-CA-CB	5.65	110.08	103.30
1	D	2616	PRO	N-CA-CB	5.65	110.08	103.30
1	B	4092	ASP	N-CA-CB	-5.64	100.44	110.60
1	B	2616	PRO	N-CA-CB	5.64	110.07	103.30
1	B	455	PRO	N-CA-CB	5.63	110.06	103.30
1	B	2808	PRO	N-CA-CB	5.63	110.06	103.30
1	A	694	PRO	N-CA-CB	5.63	110.06	103.30
1	A	4092	ASP	N-CA-CB	-5.63	100.46	110.60
1	C	694	PRO	N-CA-CB	5.63	110.06	103.30
1	C	4092	ASP	N-CA-CB	-5.63	100.47	110.60
1	C	1107	PRO	N-CA-CB	5.63	110.05	103.30
1	A	502	HIS	C-N-CA	5.63	135.77	121.70
1	B	502	HIS	C-N-CA	5.63	135.77	121.70
1	C	502	HIS	C-N-CA	5.63	135.77	121.70
1	D	502	HIS	C-N-CA	5.63	135.77	121.70
1	B	1633	PRO	N-CA-CB	5.62	110.04	103.30
1	A	1704	PRO	N-CA-CB	5.61	110.03	103.30
1	B	1704	PRO	N-CA-CB	5.61	110.03	103.30
1	C	1704	PRO	N-CA-CB	5.61	110.03	103.30
1	D	1704	PRO	N-CA-CB	5.61	110.03	103.30
1	D	4092	ASP	N-CA-CB	-5.61	100.50	110.60
1	A	4179	GLY	CA-C-O	-5.61	110.51	120.60
1	B	694	PRO	N-CA-CB	5.61	110.03	103.30
1	B	4179	GLY	CA-C-O	-5.61	110.51	120.60
1	D	4179	GLY	CA-C-O	-5.61	110.51	120.60
1	D	694	PRO	N-CA-CB	5.60	110.02	103.30
1	A	1633	PRO	N-CA-CB	5.60	110.02	103.30
1	C	1633	PRO	N-CA-CB	5.60	110.02	103.30
1	D	1633	PRO	N-CA-CB	5.60	110.02	103.30
1	C	252	VAL	C-N-CA	5.59	135.68	121.70
1	A	1107	PRO	N-CA-CB	5.59	110.01	103.30
1	B	1107	PRO	N-CA-CB	5.59	110.01	103.30
1	D	1107	PRO	N-CA-CB	5.59	110.01	103.30
1	C	4179	GLY	CA-C-O	-5.59	110.55	120.60
1	D	286	THR	N-CA-C	-5.58	95.92	111.00
1	A	252	VAL	C-N-CA	5.58	135.65	121.70
1	A	286	THR	N-CA-C	-5.58	95.94	111.00
1	B	252	VAL	C-N-CA	5.58	135.64	121.70
1	B	286	THR	N-CA-C	-5.58	95.94	111.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	286	THR	N-CA-C	-5.58	95.94	111.00
1	D	252	VAL	C-N-CA	5.57	135.61	121.70
1	C	2937	VAL	N-CA-C	-5.55	96.00	111.00
1	B	344	SER	N-CA-C	-5.55	96.01	111.00
1	D	1589	PRO	N-CA-CB	5.55	109.96	103.30
1	A	344	SER	N-CA-C	-5.55	96.03	111.00
1	A	2937	VAL	N-CA-C	-5.55	96.02	111.00
1	B	2937	VAL	N-CA-C	-5.55	96.02	111.00
1	C	344	SER	N-CA-C	-5.55	96.03	111.00
1	D	344	SER	N-CA-C	-5.55	96.03	111.00
1	D	2937	VAL	N-CA-C	-5.55	96.02	111.00
1	A	1589	PRO	N-CA-CB	5.54	109.95	103.30
1	A	2172	PRO	N-CA-CB	5.54	109.95	103.30
1	B	1589	PRO	N-CA-CB	5.54	109.95	103.30
1	B	2172	PRO	N-CA-CB	5.54	109.95	103.30
1	C	1589	PRO	N-CA-CB	5.54	109.95	103.30
1	C	2172	PRO	N-CA-CB	5.54	109.95	103.30
1	D	2172	PRO	N-CA-CB	5.54	109.95	103.30
1	A	5018	CYS	CA-CB-SG	-5.52	104.07	114.00
1	C	5018	CYS	CA-CB-SG	-5.52	104.07	114.00
1	D	5018	CYS	CA-CB-SG	-5.52	104.07	114.00
1	B	5018	CYS	CA-CB-SG	-5.51	104.08	114.00
1	B	1196	PRO	N-CA-CB	5.49	109.89	103.30
1	C	2907	PRO	N-CA-CB	5.49	109.88	103.30
1	C	175	SER	N-CA-C	-5.48	96.20	111.00
1	A	175	SER	N-CA-C	-5.48	96.21	111.00
1	B	175	SER	N-CA-C	-5.48	96.21	111.00
1	D	175	SER	N-CA-C	-5.48	96.21	111.00
1	A	2907	PRO	N-CA-CB	5.46	109.85	103.30
1	B	2907	PRO	N-CA-CB	5.46	109.85	103.30
1	D	2907	PRO	N-CA-CB	5.46	109.85	103.30
1	B	2198	MET	N-CA-C	5.45	125.72	111.00
1	B	919	ASN	N-CA-C	-5.45	96.29	111.00
1	A	1196	PRO	N-CA-CB	5.45	109.84	103.30
1	C	1196	PRO	N-CA-CB	5.45	109.84	103.30
1	A	919	ASN	N-CA-C	-5.45	96.30	111.00
1	C	919	ASN	N-CA-C	-5.45	96.30	111.00
1	D	919	ASN	N-CA-C	-5.45	96.30	111.00
1	D	2198	MET	N-CA-C	5.45	125.70	111.00
1	A	2198	MET	N-CA-C	5.44	125.69	111.00
1	A	4003	LEU	N-CA-C	-5.44	96.31	111.00
1	B	4003	LEU	N-CA-C	-5.44	96.31	111.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	2198	MET	N-CA-C	5.44	125.69	111.00
1	C	4003	LEU	N-CA-C	-5.44	96.31	111.00
1	D	4003	LEU	N-CA-C	-5.44	96.31	111.00
1	D	1196	PRO	N-CA-CB	5.43	109.82	103.30
1	A	1621	GLY	N-CA-C	-5.43	99.53	113.10
1	B	1621	GLY	N-CA-C	-5.43	99.53	113.10
1	C	1621	GLY	N-CA-C	-5.43	99.53	113.10
1	D	1621	GLY	N-CA-C	-5.43	99.53	113.10
1	B	1546	THR	CA-C-N	5.43	129.14	117.20
1	C	1546	THR	CA-C-N	5.43	129.14	117.20
1	A	1546	THR	CA-C-N	5.42	129.13	117.20
1	D	1546	THR	CA-C-N	5.42	129.13	117.20
1	A	627	PRO	N-CA-CB	5.42	109.80	103.30
1	B	627	PRO	N-CA-CB	5.42	109.80	103.30
1	C	627	PRO	N-CA-CB	5.42	109.80	103.30
1	D	627	PRO	N-CA-CB	5.42	109.80	103.30
1	A	2793	PRO	N-CA-CB	5.42	109.80	103.30
1	B	2793	PRO	N-CA-CB	5.42	109.80	103.30
1	C	2793	PRO	N-CA-CB	5.42	109.80	103.30
1	D	2793	PRO	N-CA-CB	5.42	109.80	103.30
1	A	4835	LYS	C-N-CA	5.41	135.23	121.70
1	C	4835	LYS	C-N-CA	5.41	135.23	121.70
1	D	4835	LYS	C-N-CA	5.41	135.23	121.70
1	A	311	ALA	N-CA-C	-5.40	96.42	111.00
1	D	311	ALA	N-CA-C	-5.40	96.42	111.00
1	A	1289	LEU	N-CA-C	-5.40	96.43	111.00
1	B	4835	LYS	C-N-CA	5.40	135.20	121.70
1	C	1289	LEU	N-CA-C	-5.40	96.43	111.00
1	D	1289	LEU	N-CA-C	-5.40	96.43	111.00
1	A	3984	ARG	N-CA-C	5.39	125.56	111.00
1	C	3984	ARG	N-CA-C	5.39	125.56	111.00
1	B	311	ALA	N-CA-C	-5.39	96.45	111.00
1	B	1289	LEU	N-CA-C	-5.39	96.46	111.00
1	B	3984	ARG	N-CA-C	5.39	125.54	111.00
1	C	311	ALA	N-CA-C	-5.39	96.45	111.00
1	D	3984	ARG	N-CA-C	5.39	125.54	111.00
1	A	1452	TRP	N-CA-C	-5.36	96.53	111.00
1	B	1452	TRP	N-CA-C	-5.36	96.53	111.00
1	C	1452	TRP	N-CA-C	-5.36	96.53	111.00
1	D	1452	TRP	N-CA-C	-5.36	96.53	111.00
1	A	4698	LYS	N-CA-C	-5.31	96.65	111.00
1	B	4698	LYS	N-CA-C	-5.31	96.65	111.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	4698	LYS	N-CA-C	-5.31	96.65	111.00
1	D	4698	LYS	N-CA-C	-5.31	96.67	111.00
1	B	2586	VAL	N-CA-CB	-5.30	99.84	111.50
1	A	2586	VAL	N-CA-CB	-5.30	99.85	111.50
1	B	543	ASN	C-N-CA	5.30	134.94	121.70
1	C	347	PHE	N-CA-C	5.30	125.30	111.00
1	C	543	ASN	C-N-CA	5.30	134.94	121.70
1	C	2586	VAL	N-CA-CB	-5.30	99.85	111.50
1	D	2586	VAL	N-CA-CB	-5.30	99.85	111.50
1	A	1745	ILE	CB-CA-C	5.29	122.19	111.60
1	B	1745	ILE	CB-CA-C	5.29	122.19	111.60
1	C	1745	ILE	CB-CA-C	5.29	122.19	111.60
1	D	1745	ILE	CB-CA-C	5.29	122.19	111.60
1	D	543	ASN	C-N-CA	5.29	134.94	121.70
1	A	3572	GLN	CB-CA-C	5.29	120.97	110.40
1	B	347	PHE	N-CA-C	5.29	125.27	111.00
1	B	3572	GLN	CB-CA-C	5.29	120.97	110.40
1	C	3572	GLN	CB-CA-C	5.29	120.97	110.40
1	D	3572	GLN	CB-CA-C	5.29	120.97	110.40
1	A	347	PHE	N-CA-C	5.28	125.27	111.00
1	A	543	ASN	C-N-CA	5.28	134.91	121.70
1	D	347	PHE	N-CA-C	5.28	125.27	111.00
1	B	2274	ASP	N-CA-C	5.28	125.24	111.00
1	A	2274	ASP	N-CA-C	5.27	125.24	111.00
1	C	2274	ASP	N-CA-C	5.27	125.24	111.00
1	A	1626	TRP	N-CA-C	5.27	125.23	111.00
1	B	1626	TRP	N-CA-C	5.27	125.23	111.00
1	C	1626	TRP	N-CA-C	5.27	125.23	111.00
1	D	1626	TRP	N-CA-C	5.27	125.23	111.00
1	B	668	VAL	C-N-CA	5.26	134.86	121.70
1	D	2274	ASP	N-CA-C	5.26	125.21	111.00
1	A	668	VAL	C-N-CA	5.26	134.85	121.70
1	D	668	VAL	C-N-CA	5.26	134.84	121.70
1	B	4173	TYR	N-CA-CB	-5.25	101.14	110.60
1	B	2452	ARG	N-CA-C	5.25	125.17	111.00
1	C	668	VAL	C-N-CA	5.25	134.81	121.70
1	A	4173	TYR	N-CA-CB	-5.24	101.17	110.60
1	D	4173	TYR	N-CA-CB	-5.24	101.17	110.60
1	A	2452	ARG	N-CA-C	5.24	125.14	111.00
1	C	2452	ARG	N-CA-C	5.24	125.14	111.00
1	D	2452	ARG	N-CA-C	5.24	125.14	111.00
1	D	2897	LYS	N-CA-C	5.23	125.13	111.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	2275	VAL	N-CA-C	-5.23	96.88	111.00
1	C	2275	VAL	N-CA-C	-5.23	96.88	111.00
1	D	2275	VAL	N-CA-C	-5.23	96.88	111.00
1	B	2275	VAL	N-CA-C	-5.22	96.89	111.00
1	A	2897	LYS	N-CA-C	5.22	125.10	111.00
1	C	2897	LYS	N-CA-C	5.22	125.10	111.00
1	C	740	PRO	N-CA-CB	5.22	109.56	103.30
1	C	4173	TYR	N-CA-CB	-5.22	101.20	110.60
1	B	2897	LYS	N-CA-C	5.22	125.08	111.00
1	C	4154	VAL	C-N-CD	5.20	139.33	128.40
1	B	105	HIS	N-CA-C	-5.20	96.97	111.00
1	B	740	PRO	N-CA-CB	5.19	109.53	103.30
1	A	4154	VAL	C-N-CD	5.19	139.30	128.40
1	D	4154	VAL	C-N-CD	5.19	139.30	128.40
1	A	105	HIS	N-CA-C	-5.19	96.99	111.00
1	D	105	HIS	N-CA-C	-5.19	96.99	111.00
1	A	740	PRO	N-CA-CB	5.18	109.52	103.30
1	D	740	PRO	N-CA-CB	5.18	109.52	103.30
1	C	105	HIS	N-CA-C	-5.18	97.02	111.00
1	B	70	GLU	N-CA-C	5.17	124.97	111.00
1	B	4154	VAL	C-N-CD	5.17	139.26	128.40
1	D	70	GLU	N-CA-C	5.17	124.97	111.00
1	A	70	GLU	N-CA-C	5.17	124.96	111.00
1	A	4197	ILE	N-CA-C	5.17	124.96	111.00
1	A	4971	THR	C-N-CD	5.17	139.26	128.40
1	B	4197	ILE	N-CA-C	5.17	124.96	111.00
1	C	70	GLU	N-CA-C	5.17	124.96	111.00
1	C	4197	ILE	N-CA-C	5.17	124.96	111.00
1	D	4197	ILE	N-CA-C	5.17	124.96	111.00
1	D	4971	THR	C-N-CD	5.17	139.26	128.40
1	B	4971	THR	C-N-CD	5.16	139.24	128.40
1	C	4971	THR	C-N-CD	5.16	139.24	128.40
1	D	631	LEU	C-N-CA	5.16	134.60	121.70
1	A	631	LEU	C-N-CA	5.16	134.59	121.70
1	B	631	LEU	C-N-CA	5.16	134.59	121.70
1	C	631	LEU	C-N-CA	5.16	134.59	121.70
1	C	2656	CYS	N-CA-C	5.12	124.82	111.00
1	A	2656	CYS	N-CA-C	5.12	124.81	111.00
1	B	2656	CYS	N-CA-C	5.12	124.81	111.00
1	D	2656	CYS	N-CA-C	5.12	124.81	111.00
1	A	5032	TYR	N-CA-C	-5.08	97.28	111.00
1	B	5032	TYR	N-CA-C	-5.08	97.28	111.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	5032	TYR	N-CA-C	-5.08	97.28	111.00
1	A	1687	SER	C-N-CA	5.07	134.38	121.70
1	B	1687	SER	C-N-CA	5.07	134.38	121.70
1	C	1687	SER	C-N-CA	5.07	134.38	121.70
1	D	1687	SER	C-N-CA	5.07	134.38	121.70
1	D	5032	TYR	N-CA-C	-5.07	97.31	111.00
1	A	4729	GLY	N-CA-C	5.06	125.75	113.10
1	C	4729	GLY	N-CA-C	5.06	125.75	113.10
1	D	4729	GLY	N-CA-C	5.06	125.75	113.10
1	A	438	ILE	C-N-CA	5.05	134.34	121.70
1	D	438	ILE	C-N-CA	5.05	134.34	121.70
1	B	4729	GLY	N-CA-C	5.04	125.71	113.10
1	C	438	ILE	C-N-CA	5.04	134.30	121.70
1	B	438	ILE	C-N-CA	5.04	134.30	121.70
1	B	3710	LEU	N-CA-C	5.03	124.59	111.00
1	B	712	TYR	N-CA-C	-5.02	97.43	111.00
1	A	3710	LEU	N-CA-C	5.02	124.56	111.00
1	C	3710	LEU	N-CA-C	5.02	124.56	111.00
1	D	3710	LEU	N-CA-C	5.02	124.56	111.00
1	D	712	TYR	N-CA-C	-5.02	97.45	111.00
1	B	831	ARG	CA-C-N	5.01	128.23	117.20
1	A	712	TYR	N-CA-C	-5.01	97.47	111.00
1	C	712	TYR	N-CA-C	-5.01	97.47	111.00
1	A	831	ARG	CA-C-N	5.01	128.22	117.20
1	D	831	ARG	CA-C-N	5.01	128.22	117.20
1	C	831	ARG	CA-C-N	5.01	128.22	117.20

All (4) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
1	A	4691	GLN	CA
1	B	4691	GLN	CA
1	C	4691	GLN	CA
1	D	4691	GLN	CA

All (12) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	2192	TYR	Mainchain
1	A	2586	VAL	Peptide
1	A	4091	LYS	Peptide
1	B	2192	TYR	Mainchain

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Group
1	B	2586	VAL	Peptide
1	B	4091	LYS	Peptide
1	C	2192	TYR	Mainchain
1	C	2586	VAL	Peptide
1	C	4091	LYS	Peptide
1	D	2192	TYR	Mainchain
1	D	2586	VAL	Peptide
1	D	4091	LYS	Peptide

5.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	18404	0	9770	2060	0
1	B	18404	0	9770	2067	0
1	C	18404	0	9770	2068	0
1	D	18404	0	9770	2069	0
All	All	73616	0	39080	8025	0

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

All (8025) 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:D:4978:HIS:HE2	1:D:4983:HIS:CD2	1.11	1.67
1:A:4235:VAL:HG21	1:A:5019:TRP:CZ3	1.15	1.67
1:C:4115:SER:HA	1:C:4128:PHE:CZ	1.23	1.66
1:A:4978:HIS:HE2	1:A:4983:HIS:CD2	1.11	1.66
1:B:4978:HIS:HE2	1:B:4983:HIS:CD2	1.11	1.65
1:C:4978:HIS:HE2	1:C:4983:HIS:CD2	1.11	1.65
1:B:4995:LEU:HD11	1:B:5011:TRP:CE3	1.26	1.64
1:B:4235:VAL:HG21	1:B:5019:TRP:CZ3	1.15	1.63
1:B:4115:SER:HA	1:B:4128:PHE:CZ	1.23	1.63
1:C:4995:LEU:HD11	1:C:5011:TRP:CE3	1.26	1.62
1:D:4115:SER:HA	1:D:4128:PHE:CZ	1.23	1.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:4701:TRP:CH2	1:D:4781:GLY:HA3	1.29	1.62
1:C:4701:TRP:CH2	1:C:4781:GLY:HA3	1.29	1.61
1:B:4701:TRP:CH2	1:B:4781:GLY:HA3	1.29	1.61
1:A:4701:TRP:CH2	1:A:4781:GLY:HA3	1.29	1.61
1:A:4937:ILE:CD1	1:D:4934:GLY:CA	1.76	1.60
1:D:4235:VAL:HG21	1:D:5019:TRP:CZ3	1.15	1.59
1:B:4141:PHE:CZ	1:B:4196:GLU:CB	1.86	1.59
1:A:4115:SER:HA	1:A:4128:PHE:CZ	1.23	1.59
1:C:4235:VAL:HG21	1:C:5019:TRP:CZ3	1.15	1.59
1:A:4559:PHE:HD2	1:A:4661:TYR:CB	1.13	1.58
1:D:4995:LEU:HD11	1:D:5011:TRP:CE3	1.26	1.58
1:A:4937:ILE:HD11	1:D:4934:GLY:CA	1.18	1.57
1:D:4141:PHE:CZ	1:D:4196:GLU:CB	1.86	1.57
1:C:4141:PHE:CZ	1:C:4196:GLU:CB	1.86	1.57
1:A:4696:ASP:CB	1:A:4697:VAL:CG2	1.83	1.56
1:C:721:LEU:CB	1:C:728:ARG:H	1.19	1.56
1:B:721:LEU:CB	1:B:728:ARG:H	1.19	1.56
1:D:4559:PHE:HD2	1:D:4661:TYR:CB	1.13	1.56
1:B:4934:GLY:CA	1:C:4937:ILE:HD11	1.19	1.56
1:B:4934:GLY:CA	1:C:4937:ILE:CD1	1.77	1.55
1:D:1708:ARG:HH12	1:D:1837:GLN:CA	1.20	1.55
1:B:1708:ARG:HH12	1:B:1837:GLN:CA	1.20	1.55
1:C:1708:ARG:HH12	1:C:1837:GLN:CA	1.20	1.55
1:D:721:LEU:CB	1:D:728:ARG:H	1.19	1.55
1:C:4559:PHE:HD2	1:C:4661:TYR:CB	1.13	1.54
1:A:4575:PHE:CE1	1:A:4576:ILE:HD13	1.40	1.54
1:A:721:LEU:CB	1:A:728:ARG:H	1.19	1.54
1:B:4559:PHE:HD2	1:B:4661:TYR:CB	1.13	1.54
1:B:4575:PHE:CE1	1:B:4576:ILE:HD13	1.40	1.54
1:A:4934:GLY:CA	1:B:4937:ILE:CD1	1.85	1.54
1:B:4696:ASP:CB	1:B:4697:VAL:CG2	1.83	1.53
1:A:4141:PHE:CZ	1:A:4196:GLU:CB	1.86	1.53
1:D:4696:ASP:CB	1:D:4697:VAL:CG2	1.83	1.53
1:B:4978:HIS:NE2	1:B:4983:HIS:CD2	1.76	1.53
1:B:790:ARG:HA	1:B:1627:ALA:CA	1.37	1.53
1:A:4984:ASN:CB	1:A:4987:ASN:CB	1.84	1.52
1:D:4696:ASP:CB	1:D:4697:VAL:HG22	1.06	1.52
1:A:4696:ASP:CB	1:A:4697:VAL:HG22	1.06	1.52
1:A:4918:ILE:HG13	1:B:4891:VAL:CG2	1.38	1.52
1:B:4984:ASN:CB	1:B:4987:ASN:CB	1.87	1.52
1:C:1124:PHE:HB3	1:C:1131:ARG:CB	1.40	1.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:4934:GLY:HA2	1:C:4937:ILE:CD1	1.34	1.52
1:A:4995:LEU:HD11	1:A:5011:TRP:CE3	1.44	1.51
1:C:4696:ASP:CB	1:C:4697:VAL:HG22	1.06	1.51
1:D:4575:PHE:CE1	1:D:4576:ILE:HD13	1.40	1.51
1:C:4575:PHE:CE1	1:C:4576:ILE:HD13	1.40	1.51
1:C:4696:ASP:CB	1:C:4697:VAL:CG2	1.83	1.51
1:D:4984:ASN:CB	1:D:4987:ASN:CB	1.87	1.51
1:B:1124:PHE:HB3	1:B:1131:ARG:CB	1.40	1.51
1:C:4984:ASN:CB	1:C:4987:ASN:CB	1.87	1.51
1:D:1124:PHE:HB3	1:D:1131:ARG:CB	1.40	1.51
1:C:790:ARG:HA	1:C:1627:ALA:CA	1.37	1.50
1:B:4696:ASP:CB	1:B:4697:VAL:HG22	1.06	1.50
1:A:1708:ARG:HH12	1:A:1837:GLN:CA	1.20	1.50
1:C:4575:PHE:HE1	1:C:4576:ILE:CD1	1.23	1.50
1:C:4918:ILE:HG13	1:D:4891:VAL:CG2	1.38	1.49
1:B:3962:PHE:CE2	1:B:4023:MET:HA	1.46	1.49
1:D:790:ARG:HA	1:D:1627:ALA:CA	1.37	1.49
1:D:3962:PHE:CE2	1:D:4023:MET:HA	1.46	1.49
1:A:790:ARG:HA	1:A:1627:ALA:CA	1.37	1.49
1:D:4978:HIS:NE2	1:D:4983:HIS:CD2	1.76	1.49
1:D:4575:PHE:HE1	1:D:4576:ILE:CD1	1.23	1.49
1:A:1515:VAL:CB	1:A:1530:THR:H	1.25	1.48
1:A:4891:VAL:CG2	1:D:4918:ILE:HG13	1.39	1.48
1:B:4575:PHE:HE1	1:B:4576:ILE:CD1	1.23	1.48
1:B:4918:ILE:HG13	1:C:4891:VAL:CG2	1.39	1.48
1:C:4235:VAL:CG2	1:C:5019:TRP:CZ3	1.97	1.48
1:A:3962:PHE:CE2	1:A:4023:MET:HA	1.46	1.47
1:B:1515:VAL:CB	1:B:1530:THR:H	1.25	1.47
1:A:1124:PHE:HB3	1:A:1131:ARG:CB	1.40	1.47
1:A:4575:PHE:HE1	1:A:4576:ILE:CD1	1.23	1.47
1:B:4235:VAL:CG2	1:B:5019:TRP:CZ3	1.97	1.47
1:D:1515:VAL:CB	1:D:1530:THR:H	1.25	1.47
1:C:1515:VAL:CB	1:C:1530:THR:H	1.25	1.46
1:C:1229:ASN:CB	1:C:1827:ARG:CB	1.94	1.46
1:C:3962:PHE:CE2	1:C:4023:MET:HA	1.46	1.46
1:B:1229:ASN:CB	1:B:1827:ARG:CB	1.94	1.46
1:D:4235:VAL:CG2	1:D:5019:TRP:CZ3	1.97	1.45
1:D:118:LEU:HA	1:D:137:LEU:CB	1.47	1.45
1:A:4937:ILE:CD1	1:D:4934:GLY:HA2	1.33	1.44
1:A:4235:VAL:CG2	1:A:5019:TRP:CZ3	1.97	1.44
1:B:4784:PHE:HA	1:B:4789:PHE:CE2	1.52	1.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4784:PHE:HA	1:A:4789:PHE:CE2	1.52	1.44
1:D:4784:PHE:HA	1:D:4789:PHE:CE2	1.52	1.43
1:A:1229:ASN:CB	1:A:1827:ARG:CB	1.94	1.43
1:D:4559:PHE:CD2	1:D:4661:TYR:CB	2.01	1.43
1:C:118:LEU:HA	1:C:137:LEU:CB	1.47	1.43
1:C:4559:PHE:CD2	1:C:4661:TYR:CB	2.01	1.43
1:C:4677:LEU:HD23	1:C:4711:PHE:CZ	1.54	1.43
1:D:1229:ASN:CB	1:D:1827:ARG:CB	1.94	1.43
1:D:4677:LEU:HD23	1:D:4711:PHE:CZ	1.54	1.43
1:C:4978:HIS:NE2	1:C:4983:HIS:CD2	1.76	1.43
1:A:4559:PHE:CD2	1:A:4661:TYR:CB	2.01	1.42
1:B:681:HIS:H	1:B:784:SER:CB	1.31	1.42
1:A:118:LEU:HA	1:A:137:LEU:CB	1.47	1.42
1:A:4934:GLY:CA	1:B:4937:ILE:HD11	1.38	1.42
1:C:4784:PHE:HA	1:C:4789:PHE:CE2	1.52	1.42
1:B:4559:PHE:CD2	1:B:4661:TYR:CB	2.01	1.42
1:A:4677:LEU:HD23	1:A:4711:PHE:CZ	1.54	1.42
1:B:38:ALA:CB	1:B:64:ILE:O	1.68	1.42
1:A:4934:GLY:HA2	1:B:4937:ILE:CD1	1.42	1.41
1:B:4677:LEU:HD23	1:B:4711:PHE:CZ	1.54	1.41
1:A:38:ALA:CB	1:A:64:ILE:O	1.68	1.41
1:B:4995:LEU:CD1	1:B:5011:TRP:CE3	2.03	1.41
1:D:681:HIS:H	1:D:784:SER:CB	1.31	1.41
1:A:681:HIS:H	1:A:784:SER:CB	1.31	1.40
1:C:38:ALA:CB	1:C:64:ILE:O	1.68	1.40
1:C:4995:LEU:CD1	1:C:5011:TRP:CE3	2.03	1.40
1:A:721:LEU:CB	1:A:728:ARG:N	1.85	1.40
1:C:681:HIS:H	1:C:784:SER:CB	1.31	1.40
1:D:38:ALA:CB	1:D:64:ILE:O	1.68	1.40
1:D:3933:PHE:CZ	1:D:3951:PHE:CD2	2.10	1.40
1:A:4918:ILE:HA	1:B:4891:VAL:CG1	1.52	1.39
1:C:4978:HIS:CE1	1:C:4983:HIS:NE2	1.90	1.39
1:A:3933:PHE:CZ	1:A:3951:PHE:CD2	2.10	1.39
1:B:118:LEU:HA	1:B:137:LEU:CB	1.47	1.39
1:A:4978:HIS:NE2	1:A:4983:HIS:CD2	1.76	1.39
1:C:1708:ARG:NH1	1:C:1837:GLN:HA	1.06	1.39
1:C:73:LEU:O	1:C:105:HIS:CA	1.69	1.39
1:A:4891:VAL:CG1	1:D:4918:ILE:HA	1.53	1.39
1:B:1708:ARG:NH1	1:B:1837:GLN:HA	1.06	1.38
1:B:4978:HIS:CE1	1:B:4983:HIS:NE2	1.90	1.38
1:C:3933:PHE:CZ	1:C:3951:PHE:CD2	2.10	1.38

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:4995:LEU:CD1	1:D:5011:TRP:CE3	2.03	1.38
1:C:4559:PHE:HE1	1:C:4560:TYR:CE1	1.42	1.38
1:D:4559:PHE:HE1	1:D:4560:TYR:CE1	1.42	1.37
1:A:3933:PHE:CZ	1:A:3951:PHE:HD2	1.41	1.37
1:A:73:LEU:O	1:A:105:HIS:CA	1.69	1.37
1:D:1708:ARG:NH1	1:D:1837:GLN:HA	1.06	1.37
1:B:73:LEU:O	1:B:105:HIS:CA	1.69	1.37
1:A:4978:HIS:CE1	1:A:4983:HIS:NE2	1.90	1.37
1:C:3933:PHE:CZ	1:C:3951:PHE:HD2	1.41	1.36
1:B:4559:PHE:HE1	1:B:4560:TYR:CE1	1.42	1.36
1:D:73:LEU:O	1:D:105:HIS:CA	1.69	1.36
1:D:4701:TRP:CH2	1:D:4781:GLY:CA	2.09	1.36
1:C:4918:ILE:HA	1:D:4891:VAL:CG1	1.51	1.36
1:B:790:ARG:CB	1:B:1627:ALA:HB2	1.54	1.36
1:B:3933:PHE:CZ	1:B:3951:PHE:CD2	2.10	1.36
1:D:3933:PHE:CZ	1:D:3951:PHE:HD2	1.41	1.36
1:D:4235:VAL:HG21	1:D:5019:TRP:CE3	1.59	1.36
1:D:721:LEU:CB	1:D:728:ARG:N	1.85	1.36
1:A:1297:PHE:CA	1:A:1297:PHE:CG	2.07	1.36
1:A:4559:PHE:HE1	1:A:4560:TYR:CE1	1.42	1.36
1:B:721:LEU:CB	1:B:728:ARG:N	1.85	1.36
1:D:790:ARG:CB	1:D:1627:ALA:HB2	1.54	1.36
1:D:4978:HIS:CE1	1:D:4983:HIS:NE2	1.90	1.36
1:D:4235:VAL:HG11	1:D:5019:TRP:CH2	1.61	1.36
1:B:3962:PHE:HE2	1:B:4023:MET:CA	1.39	1.35
1:C:790:ARG:CB	1:C:1627:ALA:HB2	1.54	1.35
1:B:1297:PHE:CA	1:B:1297:PHE:CG	2.07	1.35
1:A:4918:ILE:CA	1:B:4891:VAL:HG11	1.57	1.35
1:D:2902:HIS:CB	1:D:2905:LEU:CB	2.04	1.35
1:A:3962:PHE:HE2	1:A:4023:MET:CA	1.39	1.35
1:A:4235:VAL:HG21	1:A:5019:TRP:CE3	1.59	1.35
1:B:3933:PHE:CZ	1:B:3951:PHE:HD2	1.41	1.35
1:C:4918:ILE:CA	1:D:4891:VAL:HG11	1.56	1.35
1:B:4918:ILE:HA	1:C:4891:VAL:CG1	1.53	1.35
1:B:4701:TRP:CH2	1:B:4781:GLY:CA	2.09	1.35
1:B:4235:VAL:HG21	1:B:5019:TRP:CE3	1.59	1.35
1:A:1097:THR:CB	1:A:1145:SER:CB	2.05	1.35
1:C:3962:PHE:HE2	1:C:4023:MET:CA	1.39	1.35
1:D:1297:PHE:CG	1:D:1297:PHE:CA	2.07	1.35
1:B:1097:THR:CB	1:B:1145:SER:CB	2.05	1.34
1:B:2902:HIS:CB	1:B:2905:LEU:CB	2.04	1.34

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4235:VAL:HG21	1:C:5019:TRP:CE3	1.59	1.34
1:C:2902:HIS:CB	1:C:2905:LEU:CB	2.04	1.34
1:A:4891:VAL:HG11	1:D:4918:ILE:CA	1.58	1.34
1:B:4575:PHE:CE1	1:B:4576:ILE:CD1	2.01	1.34
1:A:1708:ARG:NH1	1:A:1837:GLN:HA	1.06	1.34
1:A:4575:PHE:CE1	1:A:4576:ILE:CD1	2.01	1.34
1:C:1297:PHE:CA	1:C:1297:PHE:CG	2.07	1.34
1:C:721:LEU:CB	1:C:728:ARG:N	1.85	1.34
1:A:790:ARG:CB	1:A:1627:ALA:HB2	1.54	1.34
1:A:4195:PHE:HE2	1:A:4991:PHE:CB	1.41	1.33
1:A:2902:HIS:CB	1:A:2905:LEU:CB	2.04	1.33
1:B:4235:VAL:HG11	1:B:5019:TRP:CH2	1.61	1.33
1:D:3962:PHE:HE2	1:D:4023:MET:CA	1.39	1.33
1:A:4701:TRP:CH2	1:A:4781:GLY:CA	2.09	1.33
1:C:4701:TRP:CH2	1:C:4781:GLY:CA	2.09	1.33
1:B:4918:ILE:CA	1:C:4891:VAL:HG11	1.58	1.33
1:C:4235:VAL:HG11	1:C:5019:TRP:CH2	1.61	1.33
1:A:4235:VAL:HG11	1:A:5019:TRP:CH2	1.61	1.33
1:C:72:SER:HA	1:C:106:ALA:O	1.28	1.33
1:A:4195:PHE:CE2	1:A:4991:PHE:CB	2.11	1.33
1:A:4195:PHE:CZ	1:A:4991:PHE:HB2	1.63	1.33
1:C:3061:ALA:O	1:C:3064:VAL:CA	1.77	1.32
1:D:72:SER:HA	1:D:106:ALA:O	1.28	1.32
1:C:117:TYR:CD2	1:C:141:ALA:HB2	1.65	1.32
1:D:4687:TYR:HA	1:D:4691:GLN:CB	1.57	1.32
1:A:72:SER:HA	1:A:106:ALA:O	1.28	1.32
1:B:72:SER:HA	1:B:106:ALA:O	1.28	1.32
1:D:1097:THR:CB	1:D:1145:SER:CB	2.05	1.32
1:B:117:TYR:CD2	1:B:141:ALA:HB2	1.65	1.32
1:C:4575:PHE:CE1	1:C:4576:ILE:CD1	2.01	1.32
1:C:4687:TYR:HA	1:C:4691:GLN:CB	1.57	1.32
1:A:4687:TYR:HA	1:A:4691:GLN:CB	1.57	1.32
1:A:4195:PHE:CE2	1:A:4991:PHE:HB2	1.64	1.32
1:D:3061:ALA:O	1:D:3064:VAL:CA	1.77	1.32
1:B:4687:TYR:HA	1:B:4691:GLN:CA	1.58	1.32
1:C:1097:THR:CB	1:C:1145:SER:CB	2.05	1.31
1:B:4687:TYR:HA	1:B:4691:GLN:CB	1.57	1.31
1:D:4687:TYR:HA	1:D:4691:GLN:CA	1.58	1.31
1:A:4687:TYR:HA	1:A:4691:GLN:CA	1.58	1.31
1:B:1288:PHE:O	1:B:1553:PHE:HA	1.13	1.31
1:A:1124:PHE:HB2	1:A:1130:GLN:C	1.51	1.31

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1124:PHE:HB2	1:B:1130:GLN:C	1.51	1.31
1:D:117:TYR:CD2	1:D:141:ALA:HB2	1.65	1.31
1:C:4687:TYR:HA	1:C:4691:GLN:CA	1.58	1.30
1:A:1124:PHE:HB2	1:A:1130:GLN:O	1.31	1.30
1:A:117:TYR:CD2	1:A:141:ALA:HB2	1.65	1.30
1:D:4575:PHE:CE1	1:D:4576:ILE:CD1	2.01	1.30
1:C:459:LEU:CB	1:C:463:GLU:CB	2.10	1.30
1:C:4183:ILE:HG23	1:C:4191:GLU:O	1.15	1.30
1:C:4559:PHE:CE1	1:C:4560:TYR:CE1	2.20	1.30
1:D:4701:TRP:HH2	1:D:4781:GLY:CA	1.44	1.30
1:C:1288:PHE:O	1:C:1553:PHE:HA	1.13	1.30
1:B:3061:ALA:O	1:B:3064:VAL:CA	1.77	1.30
1:C:1124:PHE:HB2	1:C:1130:GLN:C	1.51	1.29
1:A:3061:ALA:O	1:A:3064:VAL:CA	1.77	1.29
1:A:459:LEU:CB	1:A:463:GLU:CB	2.10	1.29
1:D:1288:PHE:O	1:D:1553:PHE:HA	1.13	1.29
1:B:4559:PHE:CE1	1:B:4560:TYR:CE1	2.20	1.29
1:A:4183:ILE:HG23	1:A:4191:GLU:O	1.15	1.29
1:C:4701:TRP:HH2	1:C:4781:GLY:CA	1.44	1.29
1:D:4559:PHE:CE1	1:D:4560:TYR:CE1	2.20	1.29
1:A:4559:PHE:CE1	1:A:4560:TYR:CD1	2.20	1.29
1:D:459:LEU:CB	1:D:463:GLU:CB	2.10	1.29
1:C:118:LEU:CA	1:C:137:LEU:CB	2.07	1.29
1:B:4183:ILE:CG2	1:B:4191:GLU:O	1.81	1.29
1:D:3061:ALA:O	1:D:3064:VAL:HA	1.19	1.29
1:B:118:LEU:HA	1:B:137:LEU:CA	1.62	1.28
1:D:4559:PHE:CE1	1:D:4560:TYR:CD1	2.20	1.28
1:B:3061:ALA:O	1:B:3064:VAL:HA	1.19	1.28
1:B:459:LEU:CB	1:B:463:GLU:CB	2.10	1.28
1:D:118:LEU:CA	1:D:137:LEU:CB	2.07	1.28
1:A:118:LEU:HA	1:A:137:LEU:CA	1.62	1.28
1:A:4183:ILE:CG2	1:A:4191:GLU:O	1.81	1.28
1:B:4559:PHE:CE1	1:B:4560:TYR:CD1	2.20	1.28
1:C:3061:ALA:O	1:C:3064:VAL:HA	1.19	1.28
1:D:1124:PHE:HB2	1:D:1130:GLN:C	1.51	1.28
1:B:4235:VAL:CG2	1:B:5019:TRP:HZ3	1.40	1.28
1:D:1124:PHE:CA	1:D:1131:ARG:HA	1.63	1.28
1:C:1124:PHE:CA	1:C:1131:ARG:HA	1.63	1.28
1:C:4559:PHE:CE1	1:C:4560:TYR:CD1	2.20	1.28
1:A:4956:THR:O	1:A:4964:GLY:O	1.52	1.28
1:C:1515:VAL:CB	1:C:1529:PHE:CB	2.12	1.28

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:346:CYS:O	1:C:387:ALA:HA	1.34	1.28
1:D:38:ALA:HB1	1:D:64:ILE:O	1.20	1.28
1:C:4183:ILE:CG2	1:C:4191:GLU:O	1.81	1.27
1:A:1124:PHE:CA	1:A:1131:ARG:HA	1.63	1.27
1:A:4559:PHE:CE1	1:A:4560:TYR:CE1	2.20	1.27
1:B:4195:PHE:HE2	1:B:4991:PHE:CB	1.47	1.27
1:C:4195:PHE:HE2	1:C:4991:PHE:CB	1.47	1.27
1:A:4701:TRP:HH2	1:A:4781:GLY:CA	1.44	1.27
1:D:118:LEU:HA	1:D:137:LEU:CA	1.62	1.27
1:A:3061:ALA:O	1:A:3064:VAL:HA	1.19	1.27
1:A:1515:VAL:CB	1:A:1530:THR:N	1.98	1.27
1:C:118:LEU:HA	1:C:137:LEU:CA	1.62	1.27
1:D:1515:VAL:CB	1:D:1529:PHE:CB	2.12	1.27
1:C:4956:THR:O	1:C:4964:GLY:O	1.52	1.27
1:B:4701:TRP:HH2	1:B:4781:GLY:CA	1.44	1.26
1:D:4195:PHE:HE2	1:D:4991:PHE:CB	1.47	1.26
1:B:346:CYS:O	1:B:387:ALA:HA	1.33	1.26
1:D:4183:ILE:CG2	1:D:4191:GLU:O	1.81	1.26
1:B:1124:PHE:CA	1:B:1131:ARG:HA	1.63	1.26
1:B:4956:THR:O	1:B:4964:GLY:O	1.52	1.26
1:B:1515:VAL:CB	1:B:1529:PHE:CB	2.12	1.26
1:B:344:SER:CB	1:B:345:LEU:HA	1.63	1.26
1:B:4183:ILE:HG23	1:B:4191:GLU:O	1.15	1.26
1:A:1515:VAL:CB	1:A:1529:PHE:CB	2.12	1.26
1:A:788:LYS:CB	1:A:1629:GLN:CB	2.14	1.26
1:B:4115:SER:CA	1:B:4128:PHE:CZ	2.18	1.26
1:A:1436:SER:H	1:A:1516:ILE:CB	1.47	1.26
1:A:344:SER:CB	1:A:345:LEU:HA	1.63	1.26
1:D:4183:ILE:HG23	1:D:4191:GLU:O	1.15	1.26
1:A:4891:VAL:HG21	1:D:4918:ILE:CG1	1.66	1.26
1:B:4918:ILE:CG1	1:C:4891:VAL:HG21	1.66	1.25
1:D:788:LYS:CB	1:D:1629:GLN:CB	2.14	1.25
1:D:4956:THR:O	1:D:4964:GLY:O	1.52	1.25
1:A:1161:ILE:HA	1:A:1178:ALA:CB	1.66	1.25
1:A:4918:ILE:CG1	1:B:4891:VAL:HG21	1.65	1.25
1:C:4918:ILE:CG1	1:D:4891:VAL:HG21	1.65	1.25
1:B:1124:PHE:HB2	1:B:1130:GLN:O	1.31	1.25
1:B:1161:ILE:HA	1:B:1178:ALA:CB	1.66	1.25
1:C:4115:SER:CA	1:C:4128:PHE:CZ	2.18	1.25
1:C:788:LYS:CB	1:C:1629:GLN:CB	2.14	1.25
1:A:1288:PHE:O	1:A:1553:PHE:HA	1.13	1.25

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:788:LYS:CB	1:B:1629:GLN:CB	2.14	1.25
1:D:1436:SER:H	1:D:1516:ILE:CB	1.47	1.25
1:A:4115:SER:CA	1:A:4128:PHE:CZ	2.18	1.25
1:D:1124:PHE:HB2	1:D:1130:GLN:O	1.31	1.25
1:B:2767:ALA:HB1	1:B:2855:TYR:O	1.37	1.25
1:C:1515:VAL:CB	1:C:1530:THR:N	1.98	1.25
1:C:38:ALA:HB1	1:C:64:ILE:O	1.20	1.25
1:B:1515:VAL:CB	1:B:1530:THR:N	1.98	1.25
1:C:1436:SER:H	1:C:1516:ILE:CB	1.47	1.24
1:A:4921:PHE:O	1:A:4925:ILE:HD11	1.35	1.24
1:D:1688:HIS:N	1:D:1689:VAL:CB	2.00	1.24
1:D:4115:SER:CA	1:D:4128:PHE:CZ	2.18	1.24
1:A:118:LEU:CA	1:A:137:LEU:CB	2.07	1.24
1:A:1688:HIS:N	1:A:1689:VAL:CB	2.00	1.24
1:B:1436:SER:H	1:B:1516:ILE:CB	1.47	1.24
1:B:1688:HIS:N	1:B:1689:VAL:CB	2.00	1.24
1:B:38:ALA:HB1	1:B:64:ILE:O	1.20	1.24
1:A:346:CYS:O	1:A:387:ALA:HA	1.33	1.24
1:C:790:ARG:CA	1:C:1627:ALA:HA	1.68	1.24
1:C:4921:PHE:O	1:C:4925:ILE:HD11	1.35	1.24
1:D:1515:VAL:CB	1:D:1530:THR:N	1.98	1.24
1:B:118:LEU:CA	1:B:137:LEU:CB	2.07	1.24
1:D:790:ARG:CA	1:D:1627:ALA:HA	1.68	1.24
1:A:4940:PHE:HE2	1:D:4935:LEU:CD2	1.51	1.23
1:A:4995:LEU:CD1	1:A:5011:TRP:CE3	2.20	1.23
1:B:4995:LEU:CD1	1:B:5011:TRP:HE3	1.42	1.23
1:C:1688:HIS:N	1:C:1689:VAL:CB	2.00	1.23
1:C:1161:ILE:HA	1:C:1178:ALA:CB	1.66	1.23
1:B:4935:LEU:CD2	1:C:4940:PHE:HE2	1.48	1.23
1:D:1161:ILE:HA	1:D:1178:ALA:CB	1.66	1.23
1:B:4935:LEU:CD2	1:C:4940:PHE:CE2	2.22	1.23
1:D:346:CYS:O	1:D:387:ALA:HA	1.33	1.23
1:A:38:ALA:HB1	1:A:64:ILE:O	1.20	1.23
1:D:4195:PHE:CE2	1:D:4991:PHE:CB	2.22	1.23
1:C:73:LEU:O	1:C:105:HIS:HA	1.04	1.22
1:C:4235:VAL:CG2	1:C:5019:TRP:HZ3	1.40	1.22
1:C:2767:ALA:HB1	1:C:2855:TYR:O	1.37	1.22
1:B:1582:SER:CB	1:B:1589:PRO:CB	2.18	1.22
1:C:4195:PHE:CE2	1:C:4991:PHE:CB	2.22	1.22
1:A:790:ARG:CA	1:A:1627:ALA:HA	1.68	1.22
1:B:790:ARG:CA	1:B:1627:ALA:HA	1.68	1.22

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1124:PHE:HB2	1:C:1130:GLN:O	1.31	1.22
1:A:1287:LEU:CB	1:A:1554:VAL:N	2.03	1.22
1:A:4235:VAL:CG2	1:A:5019:TRP:HZ3	1.40	1.22
1:A:4937:ILE:HD11	1:D:4934:GLY:N	1.54	1.22
1:B:4195:PHE:CE2	1:B:4991:PHE:CB	2.22	1.21
1:C:681:HIS:N	1:C:784:SER:CB	2.03	1.21
1:A:73:LEU:O	1:A:105:HIS:HA	1.04	1.21
1:A:1582:SER:CB	1:A:1589:PRO:CB	2.18	1.21
1:C:1582:SER:CB	1:C:1589:PRO:CB	2.18	1.21
1:C:344:SER:CB	1:C:345:LEU:HA	1.63	1.21
1:D:2767:ALA:HB1	1:D:2855:TYR:O	1.37	1.21
1:A:2767:ALA:HB1	1:A:2855:TYR:O	1.37	1.21
1:A:681:HIS:N	1:A:784:SER:CB	2.03	1.21
1:D:1287:LEU:CB	1:D:1554:VAL:N	2.03	1.21
1:D:1582:SER:CB	1:D:1589:PRO:CB	2.18	1.21
1:B:1239:SER:CA	1:B:1608:MET:CB	2.19	1.21
1:D:681:HIS:N	1:D:784:SER:CB	2.03	1.21
1:B:4921:PHE:O	1:B:4925:ILE:HD11	1.35	1.21
1:B:4935:LEU:HD22	1:C:4940:PHE:CE2	1.74	1.21
1:A:1239:SER:CA	1:A:1608:MET:CB	2.19	1.20
1:A:4104:THR:O	1:A:4108:ILE:HG23	1.40	1.20
1:B:1287:LEU:CB	1:B:1554:VAL:N	2.03	1.20
1:C:4995:LEU:CD1	1:C:5011:TRP:HE3	1.42	1.20
1:C:612:VAL:CB	1:C:2169:GLN:N	2.04	1.20
1:C:1287:LEU:CB	1:C:1554:VAL:N	2.03	1.20
1:D:73:LEU:O	1:D:105:HIS:HA	1.04	1.20
1:D:4701:TRP:CZ2	1:D:4781:GLY:HA3	1.77	1.20
1:A:4940:PHE:CE2	1:D:4935:LEU:CD2	2.24	1.20
1:D:4921:PHE:O	1:D:4925:ILE:HD11	1.35	1.20
1:D:4995:LEU:CD1	1:D:5011:TRP:HE3	1.42	1.20
1:A:612:VAL:CB	1:A:2169:GLN:N	2.04	1.20
1:B:1436:SER:N	1:B:1516:ILE:CB	2.05	1.20
1:B:681:HIS:N	1:B:784:SER:CB	2.03	1.20
1:C:4104:THR:O	1:C:4108:ILE:HG23	1.40	1.20
1:A:1124:PHE:CB	1:A:1131:ARG:CA	2.20	1.19
1:A:4701:TRP:CZ2	1:A:4781:GLY:HA3	1.77	1.19
1:A:4687:TYR:HA	1:A:4691:GLN:HA	1.24	1.19
1:B:612:VAL:CB	1:B:2169:GLN:N	2.04	1.19
1:A:4940:PHE:CE2	1:D:4935:LEU:HD22	1.76	1.19
1:D:1239:SER:CA	1:D:1608:MET:CB	2.19	1.19
1:D:612:VAL:CB	1:D:2169:GLN:N	2.04	1.19

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1436:SER:N	1:C:1516:ILE:CB	2.05	1.19
1:D:4235:VAL:CG2	1:D:5019:TRP:HZ3	1.40	1.19
1:B:1229:ASN:HA	1:B:1826:ALA:O	1.03	1.19
1:C:1124:PHE:CB	1:C:1131:ARG:CA	2.20	1.19
1:C:1239:SER:CA	1:C:1608:MET:CB	2.19	1.19
1:B:4934:GLY:N	1:C:4937:ILE:HD11	1.55	1.19
1:A:1229:ASN:HA	1:A:1826:ALA:O	1.03	1.19
1:C:4195:PHE:CE2	1:C:4991:PHE:HB2	1.77	1.19
1:D:4104:THR:O	1:D:4108:ILE:HG23	1.40	1.19
1:A:4141:PHE:HA	1:A:4174:PHE:CD2	1.78	1.18
1:A:20:VAL:O	1:A:67:PHE:CB	1.91	1.18
1:C:4687:TYR:HA	1:C:4691:GLN:HA	1.24	1.18
1:B:4195:PHE:CE2	1:B:4991:PHE:HB2	1.77	1.18
1:B:1124:PHE:CB	1:B:1131:ARG:CA	2.20	1.18
1:D:4141:PHE:HA	1:D:4174:PHE:CD2	1.78	1.18
1:A:1436:SER:N	1:A:1516:ILE:CB	2.05	1.18
1:D:344:SER:CB	1:D:345:LEU:HA	1.63	1.18
1:A:3935:TRP:HE1	1:D:77:ALA:CB	1.56	1.18
1:A:4930:ALA:HB1	1:B:4936:ILE:HG21	1.20	1.18
1:B:73:LEU:O	1:B:105:HIS:HA	1.04	1.18
1:D:1124:PHE:CB	1:D:1131:ARG:CA	2.20	1.18
1:C:20:VAL:O	1:C:67:PHE:CB	1.91	1.18
1:A:4934:GLY:HA3	1:B:4937:ILE:CD1	1.69	1.18
1:A:77:ALA:CB	1:B:3935:TRP:HE1	1.57	1.17
1:C:4701:TRP:CZ2	1:C:4781:GLY:HA3	1.77	1.17
1:C:1229:ASN:HA	1:C:1826:ALA:O	1.03	1.17
1:C:665:GLU:O	1:C:792:LEU:CB	1.93	1.17
1:C:875:ALA:CB	1:C:925:SER:CB	2.22	1.17
1:D:1436:SER:N	1:D:1516:ILE:CB	2.05	1.17
1:C:77:ALA:CB	1:D:3935:TRP:HE1	1.56	1.17
1:D:665:GLU:O	1:D:792:LEU:CB	1.93	1.17
1:B:4784:PHE:HA	1:B:4789:PHE:CZ	1.79	1.17
1:A:4141:PHE:HA	1:A:4174:PHE:CE2	1.80	1.17
1:D:1229:ASN:HA	1:D:1826:ALA:O	1.03	1.17
1:B:4687:TYR:HA	1:B:4691:GLN:HA	1.24	1.17
1:C:685:GLY:HA3	1:C:713:SER:HA	1.22	1.17
1:D:1124:PHE:HB3	1:D:1131:ARG:CA	1.74	1.17
1:D:4195:PHE:CE2	1:D:4991:PHE:HB2	1.77	1.17
1:D:4687:TYR:HA	1:D:4691:GLN:HA	1.24	1.17
1:C:1124:PHE:HB3	1:C:1131:ARG:CA	1.74	1.17
1:D:20:VAL:O	1:D:67:PHE:CB	1.91	1.17

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:685:GLY:HA3	1:B:713:SER:HA	1.22	1.17
1:B:4115:SER:CA	1:B:4128:PHE:HZ	1.56	1.16
1:B:665:GLU:O	1:B:792:LEU:CB	1.93	1.16
1:B:77:ALA:CB	1:C:3935:TRP:HE1	1.57	1.16
1:C:4141:PHE:HA	1:C:4174:PHE:CD2	1.78	1.16
1:B:4141:PHE:HA	1:B:4174:PHE:CD2	1.78	1.16
1:C:1161:ILE:HA	1:C:1178:ALA:HB2	1.19	1.16
1:D:4141:PHE:HA	1:D:4174:PHE:CE2	1.80	1.16
1:B:20:VAL:O	1:B:67:PHE:CB	1.91	1.16
1:B:4701:TRP:CZ2	1:B:4781:GLY:HA3	1.77	1.16
1:C:4115:SER:CA	1:C:4128:PHE:HZ	1.56	1.16
1:C:4784:PHE:HA	1:C:4789:PHE:CZ	1.79	1.16
1:A:4784:PHE:HA	1:A:4789:PHE:CZ	1.79	1.16
1:B:4141:PHE:HA	1:B:4174:PHE:CE2	1.80	1.16
1:C:2536:LEU:O	1:C:2541:PHE:CA	1.94	1.16
1:D:4784:PHE:HA	1:D:4789:PHE:CZ	1.79	1.16
1:B:1239:SER:O	1:B:1608:MET:CB	1.94	1.16
1:A:875:ALA:CB	1:A:925:SER:CB	2.22	1.16
1:B:2536:LEU:O	1:B:2541:PHE:CA	1.94	1.16
1:B:875:ALA:CB	1:B:925:SER:CB	2.22	1.16
1:D:1239:SER:O	1:D:1608:MET:CB	1.94	1.16
1:B:1124:PHE:HB3	1:B:1131:ARG:CA	1.74	1.16
1:B:4559:PHE:CD1	1:B:4560:TYR:HD1	1.64	1.16
1:B:4784:PHE:CA	1:B:4789:PHE:CE2	2.28	1.16
1:A:1124:PHE:HB3	1:A:1131:ARG:CA	1.74	1.15
1:C:4141:PHE:HA	1:C:4174:PHE:CE2	1.80	1.15
1:D:875:ALA:CB	1:D:925:SER:CB	2.22	1.15
1:C:4971:THR:HG23	1:C:4974:GLY:HA3	1.28	1.15
1:D:103:TYR:CB	1:D:152:PRO:CB	2.24	1.15
1:A:4195:PHE:HE2	1:A:4991:PHE:CG	1.63	1.15
1:A:665:GLU:O	1:A:792:LEU:CB	1.93	1.15
1:A:4784:PHE:CA	1:A:4789:PHE:CE2	2.28	1.15
1:C:4784:PHE:CA	1:C:4789:PHE:CE2	2.28	1.15
1:A:1239:SER:O	1:A:1608:MET:CB	1.94	1.15
1:C:242:ARG:O	1:C:300:VAL:CB	1.94	1.15
1:A:4934:GLY:N	1:B:4937:ILE:HD11	1.62	1.15
1:B:242:ARG:O	1:B:300:VAL:CB	1.94	1.15
1:D:4784:PHE:CA	1:D:4789:PHE:CE2	2.28	1.15
1:B:4104:THR:O	1:B:4108:ILE:HG23	1.40	1.15
1:A:103:TYR:CB	1:A:152:PRO:CB	2.24	1.15
1:A:788:LYS:HA	1:A:1629:GLN:HA	1.18	1.15

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4559:PHE:CD1	1:A:4560:TYR:HD1	1.64	1.14
1:C:103:TYR:CB	1:C:152:PRO:CB	2.24	1.14
1:C:4195:PHE:CZ	1:C:4991:PHE:HB2	1.82	1.14
1:D:4559:PHE:CD1	1:D:4560:TYR:HD1	1.64	1.14
1:A:2536:LEU:O	1:A:2541:PHE:CA	1.94	1.14
1:A:495:ASN:O	1:A:498:THR:CB	1.95	1.14
1:D:4195:PHE:CZ	1:D:4991:PHE:HB2	1.82	1.14
1:B:788:LYS:HA	1:B:1629:GLN:HA	1.18	1.14
1:B:495:ASN:O	1:B:498:THR:CB	1.95	1.14
1:C:1290:ARG:C	1:C:1551:ALA:HB2	1.67	1.14
1:C:4559:PHE:CD1	1:C:4560:TYR:HD1	1.64	1.14
1:A:4575:PHE:HE1	1:A:4576:ILE:HD11	1.08	1.14
1:A:500:ALA:HB1	1:A:515:TRP:CH2	1.83	1.14
1:C:4141:PHE:N	1:C:4174:PHE:HE2	1.45	1.14
1:C:495:ASN:O	1:C:498:THR:CB	1.95	1.14
1:D:242:ARG:O	1:D:300:VAL:CB	1.94	1.14
1:D:495:ASN:O	1:D:498:THR:CB	1.95	1.14
1:D:500:ALA:HB1	1:D:515:TRP:CH2	1.83	1.14
1:A:4696:ASP:CA	1:A:4697:VAL:HG22	1.77	1.14
1:A:685:GLY:HA3	1:A:713:SER:HA	1.22	1.14
1:D:1085:SER:HA	1:D:1155:LEU:CB	1.77	1.14
1:D:2536:LEU:O	1:D:2541:PHE:CA	1.94	1.14
1:A:4115:SER:CA	1:A:4128:PHE:HZ	1.56	1.14
1:B:103:TYR:CB	1:B:152:PRO:CB	2.24	1.14
1:C:1239:SER:O	1:C:1608:MET:CB	1.94	1.14
1:D:1290:ARG:C	1:D:1551:ALA:HB2	1.67	1.14
1:A:242:ARG:O	1:A:300:VAL:CB	1.94	1.13
1:A:27:THR:HA	1:A:32:GLN:HA	1.30	1.13
1:A:77:ALA:HA	1:B:3935:TRP:CD1	1.83	1.13
1:B:500:ALA:HB1	1:B:515:TRP:CH2	1.83	1.13
1:C:500:ALA:HB1	1:C:515:TRP:CH2	1.83	1.13
1:B:1085:SER:HA	1:B:1155:LEU:CB	1.77	1.13
1:C:1085:SER:HA	1:C:1155:LEU:CB	1.77	1.13
1:C:4141:PHE:CA	1:C:4174:PHE:HE2	1.60	1.13
1:D:4115:SER:CA	1:D:4128:PHE:HZ	1.56	1.13
1:B:4141:PHE:CA	1:B:4174:PHE:CE2	2.32	1.13
1:B:4195:PHE:CZ	1:B:4991:PHE:HB2	1.82	1.13
1:C:4930:ALA:HB1	1:D:4936:ILE:HG21	1.20	1.13
1:D:4971:THR:HG23	1:D:4974:GLY:HA3	1.29	1.13
1:D:1689:VAL:O	1:D:1693:GLN:CB	1.97	1.13
1:D:4141:PHE:N	1:D:4174:PHE:HE2	1.45	1.13

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:4696:ASP:CA	1:D:4697:VAL:HG22	1.77	1.13
1:A:1085:SER:HA	1:A:1155:LEU:CB	1.77	1.13
1:B:4141:PHE:CA	1:B:4174:PHE:HE2	1.60	1.13
1:A:4141:PHE:N	1:A:4174:PHE:HE2	1.45	1.13
1:C:4141:PHE:CA	1:C:4174:PHE:CE2	2.32	1.13
1:B:1161:ILE:HA	1:B:1178:ALA:HB2	1.19	1.13
1:D:4921:PHE:O	1:D:4925:ILE:CD1	1.97	1.13
1:D:4957:LYS:HA	1:D:4964:GLY:HA3	1.16	1.13
1:A:4559:PHE:HE1	1:A:4560:TYR:CD1	1.62	1.13
1:B:3114:LYS:HA	1:B:3174:SER:CB	1.78	1.13
1:C:1273:ALA:HB1	1:C:1274:HIS:HA	1.31	1.13
1:D:2243:SER:CB	1:D:2246:ASN:CB	2.27	1.13
1:D:3114:LYS:HA	1:D:3174:SER:CB	1.78	1.13
1:D:4141:PHE:CA	1:D:4174:PHE:HE2	1.60	1.13
1:D:488:LEU:HA	1:D:491:ILE:CB	1.79	1.13
1:C:2243:SER:CB	1:C:2246:ASN:CB	2.27	1.13
1:C:4559:PHE:CD1	1:C:4560:TYR:CD1	2.37	1.13
1:A:1689:VAL:O	1:A:1693:GLN:CB	1.97	1.12
1:A:2243:SER:CB	1:A:2246:ASN:CB	2.27	1.12
1:A:1161:ILE:HA	1:A:1178:ALA:HB2	1.19	1.12
1:B:4141:PHE:N	1:B:4174:PHE:HE2	1.45	1.12
1:B:4921:PHE:O	1:B:4925:ILE:CD1	1.97	1.12
1:D:4575:PHE:HE1	1:D:4576:ILE:HD11	1.08	1.12
1:B:1290:ARG:C	1:B:1551:ALA:HB2	1.67	1.12
1:C:39:ALA:HB2	1:C:47:CYS:CB	1.79	1.12
1:D:1273:ALA:HB1	1:D:1274:HIS:HA	1.31	1.12
1:D:685:GLY:HA3	1:D:713:SER:HA	1.22	1.12
1:A:1124:PHE:HA	1:A:1131:ARG:HA	1.19	1.12
1:B:4559:PHE:HE1	1:B:4560:TYR:CD1	1.62	1.12
1:B:4696:ASP:CA	1:B:4697:VAL:HG22	1.77	1.12
1:B:488:LEU:HA	1:B:491:ILE:CB	1.79	1.12
1:A:4921:PHE:O	1:A:4925:ILE:CD1	1.97	1.12
1:C:4696:ASP:CA	1:C:4697:VAL:HG22	1.77	1.12
1:C:77:ALA:HA	1:D:3935:TRP:CD1	1.85	1.12
1:A:4141:PHE:CA	1:A:4174:PHE:CE2	2.32	1.12
1:B:1689:VAL:O	1:B:1693:GLN:CB	1.97	1.12
1:B:4914:VAL:HG23	1:C:4888:TYR:HD2	1.06	1.12
1:A:1290:ARG:C	1:A:1551:ALA:HB2	1.67	1.12
1:B:4575:PHE:HE1	1:B:4576:ILE:HD11	1.08	1.12
1:C:1116:GLY:O	1:C:1132:TRP:CB	1.98	1.12
1:C:1689:VAL:O	1:C:1693:GLN:CB	1.97	1.12

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1161:ILE:HA	1:D:1178:ALA:HB2	1.19	1.12
1:A:3114:LYS:HA	1:A:3174:SER:CB	1.78	1.12
1:A:3935:TRP:CD1	1:D:77:ALA:HA	1.85	1.11
1:D:4141:PHE:CA	1:D:4174:PHE:CE2	2.32	1.11
1:D:4559:PHE:HE1	1:D:4560:TYR:CD1	1.62	1.11
1:A:4141:PHE:CA	1:A:4174:PHE:HE2	1.60	1.11
1:A:488:LEU:HA	1:A:491:ILE:CB	1.79	1.11
1:B:612:VAL:CB	1:B:2168:VAL:C	2.18	1.11
1:B:4197:ILE:HD11	1:B:4990:PHE:CD2	1.86	1.11
1:C:612:VAL:CB	1:C:2168:VAL:C	2.18	1.11
1:A:612:VAL:CB	1:A:2168:VAL:C	2.18	1.11
1:D:612:VAL:CB	1:D:2168:VAL:C	2.18	1.11
1:C:4559:PHE:HE1	1:C:4560:TYR:CD1	1.62	1.11
1:C:788:LYS:HA	1:C:1629:GLN:HA	1.18	1.11
1:D:292:ALA:C	1:D:311:ALA:HB1	1.71	1.11
1:C:4914:VAL:HG23	1:D:4888:TYR:CD2	1.85	1.11
1:C:4921:PHE:O	1:C:4925:ILE:CD1	1.97	1.11
1:B:1116:GLY:O	1:B:1132:TRP:CB	1.98	1.11
1:B:2243:SER:CB	1:B:2246:ASN:CB	2.27	1.11
1:B:292:ALA:C	1:B:311:ALA:HB1	1.71	1.11
1:C:3114:LYS:HA	1:C:3174:SER:CB	1.78	1.11
1:B:918:ARG:HA	1:B:921:ASN:H	0.96	1.11
1:B:77:ALA:HA	1:C:3935:TRP:CD1	1.85	1.11
1:B:2274:ASP:HA	1:B:2277:ALA:H	0.97	1.11
1:C:292:ALA:C	1:C:311:ALA:HB1	1.71	1.11
1:C:4934:GLY:HA2	1:D:4937:ILE:HD12	1.29	1.11
1:D:790:ARG:CA	1:D:1627:ALA:CB	2.29	1.11
1:A:292:ALA:C	1:A:311:ALA:HB1	1.71	1.11
1:A:4971:THR:HG23	1:A:4974:GLY:HA3	1.28	1.11
1:C:488:LEU:HA	1:C:491:ILE:CB	1.79	1.11
1:C:4197:ILE:HD11	1:C:4990:PHE:CD2	1.86	1.10
1:D:39:ALA:HB2	1:D:47:CYS:CB	1.79	1.10
1:A:4195:PHE:CE2	1:A:4991:PHE:CD2	2.39	1.10
1:B:39:ALA:HB2	1:B:47:CYS:CB	1.79	1.10
1:B:4971:THR:HG23	1:B:4974:GLY:HA3	1.29	1.10
1:D:4559:PHE:CD1	1:D:4560:TYR:CD1	2.37	1.10
1:A:1229:ASN:CA	1:A:1826:ALA:O	2.00	1.10
1:C:4677:LEU:CD2	1:C:4711:PHE:HZ	1.64	1.10
1:A:918:ARG:HA	1:A:921:ASN:H	0.96	1.10
1:D:4696:ASP:HA	1:D:4697:VAL:HG13	1.33	1.10
1:D:918:ARG:HA	1:D:921:ASN:H	0.96	1.10

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:4677:LEU:CD2	1:D:4711:PHE:HZ	1.64	1.10
1:C:4914:VAL:HG23	1:D:4888:TYR:HD2	1.05	1.10
1:A:39:ALA:HB2	1:A:47:CYS:CB	1.79	1.10
1:A:4888:TYR:HD2	1:D:4914:VAL:HG23	1.06	1.10
1:C:4957:LYS:HA	1:C:4964:GLY:HA3	1.16	1.10
1:D:1116:GLY:O	1:D:1132:TRP:CB	1.98	1.10
1:A:1116:GLY:O	1:A:1132:TRP:CB	1.98	1.10
1:B:790:ARG:CA	1:B:1627:ALA:CB	2.29	1.10
1:A:790:ARG:CA	1:A:1627:ALA:CB	2.29	1.10
1:B:4559:PHE:CD1	1:B:4560:TYR:CD1	2.37	1.10
1:C:790:ARG:CA	1:C:1627:ALA:CB	2.29	1.10
1:C:1229:ASN:CA	1:C:1826:ALA:O	2.00	1.10
1:D:4197:ILE:HD11	1:D:4990:PHE:CD2	1.86	1.10
1:C:3840:SER:CB	1:C:3877:ASP:O	2.00	1.09
1:C:4575:PHE:HE1	1:C:4576:ILE:HD11	1.08	1.09
1:A:4696:ASP:HA	1:A:4697:VAL:HG13	1.33	1.09
1:D:1229:ASN:CA	1:D:1826:ALA:O	2.00	1.09
1:A:5017:ARG:HB2	1:A:5019:TRP:HE1	1.14	1.09
1:B:4914:VAL:HG23	1:C:4888:TYR:CD2	1.86	1.09
1:C:1124:PHE:CB	1:C:1131:ARG:HA	1.82	1.09
1:C:2274:ASP:HA	1:C:2277:ALA:H	0.97	1.09
1:D:27:THR:HA	1:D:32:GLN:HA	1.30	1.09
1:A:4914:VAL:HG23	1:B:4888:TYR:CD2	1.85	1.09
1:B:5017:ARG:HB2	1:B:5019:TRP:HE1	1.14	1.09
1:D:2274:ASP:HA	1:D:2277:ALA:H	0.97	1.09
1:D:3840:SER:CB	1:D:3877:ASP:O	2.00	1.09
1:A:4937:ILE:CD1	1:D:4934:GLY:HA3	1.62	1.09
1:D:788:LYS:HA	1:D:1629:GLN:HA	1.18	1.09
1:D:3896:ASN:CB	1:D:3899:PHE:CB	2.31	1.09
1:D:1440:PHE:CB	1:D:1512:THR:CB	2.31	1.09
1:B:27:THR:HA	1:B:32:GLN:HA	1.30	1.09
1:B:4957:LYS:HA	1:B:4964:GLY:HA3	1.16	1.09
1:C:3896:ASN:CB	1:C:3899:PHE:CB	2.31	1.09
1:D:4036:VAL:O	1:D:4154:VAL:HG22	1.53	1.09
1:C:1124:PHE:HA	1:C:1131:ARG:HA	1.19	1.09
1:C:790:ARG:HA	1:C:1627:ALA:CB	1.83	1.09
1:A:790:ARG:HA	1:A:1627:ALA:CB	1.83	1.08
1:B:1229:ASN:CA	1:B:1826:ALA:O	2.00	1.08
1:A:4888:TYR:CD2	1:D:4914:VAL:HG23	1.86	1.08
1:A:1436:SER:CA	1:A:1516:ILE:CB	2.31	1.08
1:A:3840:SER:CB	1:A:3877:ASP:O	2.00	1.08

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4931:ILE:O	1:A:4935:LEU:HG	1.52	1.08
1:B:4677:LEU:CD2	1:B:4711:PHE:HZ	1.64	1.08
1:C:1440:PHE:CB	1:C:1512:THR:CB	2.31	1.08
1:C:4036:VAL:O	1:C:4154:VAL:HG22	1.53	1.08
1:A:4559:PHE:CD1	1:A:4560:TYR:CD1	2.37	1.08
1:B:3896:ASN:CB	1:B:3899:PHE:CB	2.31	1.08
1:A:4934:GLY:HA2	1:B:4937:ILE:HD12	1.10	1.08
1:B:790:ARG:HA	1:B:1627:ALA:CB	1.83	1.08
1:B:1515:VAL:C	1:B:1529:PHE:CB	2.22	1.08
1:C:1436:SER:CA	1:C:1516:ILE:CB	2.31	1.08
1:C:1515:VAL:C	1:C:1529:PHE:CB	2.22	1.08
1:D:1515:VAL:C	1:D:1529:PHE:CB	2.22	1.08
1:A:4957:LYS:HA	1:A:4964:GLY:HA3	1.16	1.08
1:B:71:GLN:O	1:B:106:ALA:O	1.71	1.08
1:A:4677:LEU:CD2	1:A:4711:PHE:HZ	1.64	1.08
1:A:4914:VAL:HG23	1:B:4888:TYR:HD2	1.05	1.08
1:B:4968:PHE:HB3	1:B:4975:PHE:HA	1.34	1.08
1:C:4555:LEU:HA	1:C:4558:ASN:CB	1.84	1.08
1:D:71:GLN:O	1:D:106:ALA:O	1.71	1.08
1:D:318:VAL:C	1:D:346:CYS:CB	2.22	1.08
1:D:639:ASN:HA	1:D:1634:LEU:O	1.53	1.08
1:A:1273:ALA:HB1	1:A:1274:HIS:HA	1.31	1.08
1:A:3896:ASN:CB	1:A:3899:PHE:CB	2.31	1.08
1:B:4555:LEU:HA	1:B:4558:ASN:CB	1.84	1.08
1:D:4776:GLN:HE21	1:D:4776:GLN:HA	1.18	1.08
1:A:1440:PHE:CB	1:A:1512:THR:CB	2.31	1.08
1:B:3840:SER:CB	1:B:3877:ASP:O	2.00	1.08
1:C:318:VAL:C	1:C:346:CYS:CB	2.22	1.08
1:D:4555:LEU:HA	1:D:4558:ASN:CB	1.84	1.08
1:A:1515:VAL:C	1:A:1529:PHE:CB	2.22	1.07
1:B:1273:ALA:HB1	1:B:1274:HIS:HA	1.31	1.07
1:B:4832:HIS:ND1	1:B:4833:ASN:OD1	1.88	1.07
1:B:639:ASN:HA	1:B:1634:LEU:O	1.53	1.07
1:D:1124:PHE:CB	1:D:1131:ARG:HA	1.82	1.07
1:A:2274:ASP:HA	1:A:2277:ALA:H	0.97	1.07
1:A:4036:VAL:O	1:A:4154:VAL:HG22	1.53	1.07
1:A:4832:HIS:ND1	1:A:4833:ASN:OD1	1.87	1.07
1:A:4978:HIS:CE1	1:A:4983:HIS:CD2	2.39	1.07
1:D:4995:LEU:CD1	1:D:5011:TRP:CZ3	2.38	1.07
1:A:318:VAL:C	1:A:346:CYS:CB	2.22	1.07
1:A:4940:PHE:HE2	1:D:4935:LEU:HD22	0.93	1.07

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1436:SER:CA	1:B:1516:ILE:CB	2.31	1.07
1:B:1440:PHE:CB	1:B:1512:THR:CB	2.31	1.07
1:B:1288:PHE:HA	1:B:1553:PHE:CB	1.84	1.07
1:C:4183:ILE:HG23	1:C:4191:GLU:C	1.75	1.07
1:C:4931:ILE:O	1:C:4935:LEU:HG	1.53	1.07
1:D:4183:ILE:HG23	1:D:4191:GLU:C	1.75	1.07
1:A:4555:LEU:HA	1:A:4558:ASN:CB	1.84	1.07
1:B:1095:VAL:H	1:B:1200:GLY:HA2	1.19	1.07
1:B:4195:PHE:HE2	1:B:4991:PHE:CG	1.72	1.07
1:C:71:GLN:O	1:C:106:ALA:O	1.71	1.07
1:D:1124:PHE:HA	1:D:1131:ARG:HA	1.19	1.07
1:D:1436:SER:CA	1:D:1516:ILE:CB	2.31	1.07
1:B:318:VAL:C	1:B:346:CYS:CB	2.22	1.07
1:B:4934:GLY:HA2	1:C:4937:ILE:HD12	1.13	1.07
1:D:790:ARG:HA	1:D:1627:ALA:CB	1.83	1.07
1:A:292:ALA:C	1:A:311:ALA:CB	2.23	1.07
1:C:151:HIS:O	1:C:153:ALA:N	1.88	1.07
1:C:27:THR:HA	1:C:32:GLN:HA	1.30	1.07
1:A:4183:ILE:HG23	1:A:4191:GLU:C	1.75	1.07
1:B:1239:SER:C	1:B:1608:MET:CB	2.23	1.07
1:B:4930:ALA:HB1	1:C:4936:ILE:HG21	1.34	1.07
1:D:1239:SER:C	1:D:1608:MET:CB	2.23	1.07
1:D:292:ALA:C	1:D:311:ALA:CB	2.23	1.07
1:B:4036:VAL:O	1:B:4154:VAL:HG22	1.53	1.07
1:B:1124:PHE:HA	1:B:1131:ARG:HA	1.19	1.06
1:C:1239:SER:C	1:C:1608:MET:CB	2.24	1.06
1:A:4776:GLN:HA	1:A:4776:GLN:HE21	1.18	1.06
1:B:4995:LEU:CD1	1:B:5011:TRP:CZ3	2.38	1.06
1:C:4696:ASP:HA	1:C:4697:VAL:HG13	1.33	1.06
1:C:918:ARG:HA	1:C:921:ASN:H	0.96	1.06
1:A:1124:PHE:CB	1:A:1131:ARG:HA	1.82	1.06
1:A:151:HIS:O	1:A:153:ALA:N	1.88	1.06
1:A:1288:PHE:HA	1:A:1553:PHE:CB	1.84	1.06
1:B:4935:LEU:HD22	1:C:4940:PHE:HE2	0.91	1.06
1:C:4832:HIS:ND1	1:C:4833:ASN:OD1	1.87	1.06
1:D:5017:ARG:HB2	1:D:5019:TRP:HE1	1.14	1.06
1:B:1124:PHE:CB	1:B:1131:ARG:CB	2.34	1.06
1:B:1124:PHE:CB	1:B:1131:ARG:HA	1.82	1.06
1:C:4687:TYR:N	1:C:4692:PRO:HD3	1.71	1.06
1:A:1095:VAL:H	1:A:1200:GLY:HA2	1.19	1.06
1:A:1111:PRO:CB	1:A:1608:MET:O	2.03	1.06

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1111:PRO:CB	1:C:1608:MET:O	2.03	1.06
1:D:1111:PRO:CB	1:D:1608:MET:O	2.03	1.06
1:A:1295:VAL:O	1:A:1547:LYS:HA	1.55	1.06
1:A:639:ASN:HA	1:A:1634:LEU:O	1.53	1.06
1:B:2110:TYR:HD2	1:B:3696:ASP:CB	1.69	1.06
1:B:292:ALA:C	1:B:311:ALA:CB	2.23	1.06
1:B:4696:ASP:HA	1:B:4697:VAL:HG13	1.33	1.06
1:B:4998:LYS:CB	1:B:5002:GLU:CB	2.34	1.06
1:C:1288:PHE:HA	1:C:1553:PHE:CB	1.84	1.06
1:C:4195:PHE:HE2	1:C:4991:PHE:CG	1.72	1.06
1:C:4776:GLN:HE21	1:C:4776:GLN:HA	1.18	1.06
1:C:4995:LEU:CD1	1:C:5011:TRP:CZ3	2.38	1.06
1:D:4832:HIS:ND1	1:D:4833:ASN:OD1	1.87	1.06
1:A:1122:TYR:CD1	1:A:1133:HIS:O	2.09	1.06
1:C:2110:TYR:HD2	1:C:3696:ASP:CB	1.69	1.06
1:D:1288:PHE:HA	1:D:1553:PHE:CB	1.84	1.06
1:B:1111:PRO:CB	1:B:1608:MET:O	2.03	1.05
1:B:4934:GLY:HA3	1:C:4937:ILE:CD1	1.63	1.05
1:C:1122:TYR:CE1	1:C:1133:HIS:O	2.09	1.05
1:D:4968:PHE:HB3	1:D:4975:PHE:HA	1.34	1.05
1:B:4183:ILE:HG23	1:B:4191:GLU:C	1.75	1.05
1:D:1122:TYR:CE1	1:D:1133:HIS:O	2.09	1.05
1:A:2110:TYR:HD2	1:A:3696:ASP:CB	1.69	1.05
1:A:4575:PHE:CD1	1:A:4576:ILE:HD13	1.91	1.05
1:B:4575:PHE:CD1	1:B:4576:ILE:HD13	1.91	1.05
1:C:292:ALA:C	1:C:311:ALA:CB	2.23	1.05
1:D:4195:PHE:HE2	1:D:4991:PHE:CG	1.72	1.05
1:A:1124:PHE:CB	1:A:1131:ARG:CB	2.34	1.05
1:A:4182:GLU:OE2	1:A:4988:TYR:HB2	1.54	1.05
1:B:1292:SER:CB	1:B:1600:LEU:CB	2.35	1.05
1:B:4687:TYR:N	1:B:4692:PRO:HD3	1.71	1.05
1:C:4998:LYS:CB	1:C:5002:GLU:CB	2.34	1.05
1:C:5017:ARG:HB2	1:C:5019:TRP:HE1	1.15	1.05
1:C:639:ASN:HA	1:C:1634:LEU:O	1.53	1.05
1:D:1122:TYR:CD1	1:D:1133:HIS:O	2.09	1.05
1:D:4687:TYR:N	1:D:4692:PRO:HD3	1.71	1.05
1:A:1239:SER:C	1:A:1608:MET:CB	2.23	1.05
1:C:1124:PHE:CB	1:C:1131:ARG:CB	2.34	1.05
1:C:1292:SER:CB	1:C:1600:LEU:CB	2.35	1.05
1:A:71:GLN:O	1:A:106:ALA:O	1.71	1.05
1:A:1122:TYR:CE1	1:A:1133:HIS:O	2.09	1.05

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4998:LYS:CB	1:A:5002:GLU:CB	2.34	1.05
1:C:4184:MET:HA	1:C:5021:PHE:O	1.57	1.05
1:A:4995:LEU:CD1	1:A:5011:TRP:HE3	1.61	1.05
1:A:77:ALA:HA	1:B:3935:TRP:NE1	1.72	1.05
1:D:1124:PHE:CB	1:D:1131:ARG:CB	2.34	1.05
1:A:2145:SER:CB	1:A:3645:PRO:CB	2.34	1.05
1:B:151:HIS:O	1:B:153:ALA:N	1.88	1.05
1:D:4978:HIS:CE1	1:D:4983:HIS:CD2	2.39	1.05
1:B:1122:TYR:CE1	1:B:1133:HIS:O	2.09	1.04
1:B:312:THR:O	1:B:313:SER:CB	2.04	1.04
1:B:4195:PHE:CE2	1:B:4991:PHE:CD2	2.45	1.04
1:C:1556:PRO:O	1:C:1557:THR:CB	2.05	1.04
1:C:4195:PHE:CE2	1:C:4991:PHE:CD2	2.45	1.04
1:D:1295:VAL:O	1:D:1547:LYS:HA	1.55	1.04
1:A:1292:SER:CB	1:A:1600:LEU:CB	2.35	1.04
1:A:4687:TYR:N	1:A:4692:PRO:HD3	1.71	1.04
1:B:4673:ARG:HB3	1:B:4673:ARG:HH11	1.22	1.04
1:B:4677:LEU:CD2	1:B:4711:PHE:CZ	2.40	1.04
1:D:1556:PRO:O	1:D:1557:THR:CB	2.05	1.04
1:B:1295:VAL:O	1:B:1547:LYS:HA	1.55	1.04
1:B:2145:SER:CB	1:B:3645:PRO:CB	2.34	1.04
1:D:151:HIS:O	1:D:153:ALA:N	1.88	1.04
1:B:1288:PHE:O	1:B:1553:PHE:CA	2.06	1.04
1:C:4575:PHE:CD1	1:C:4576:ILE:HD13	1.91	1.04
1:C:4968:PHE:HB3	1:C:4975:PHE:HA	1.34	1.04
1:D:4998:LYS:CB	1:D:5002:GLU:CB	2.34	1.04
1:A:4968:PHE:HB3	1:A:4975:PHE:HA	1.34	1.04
1:B:4776:GLN:HE21	1:B:4776:GLN:HA	1.18	1.04
1:C:2145:SER:CB	1:C:3645:PRO:CB	2.34	1.04
1:D:1292:SER:CB	1:D:1600:LEU:CB	2.35	1.04
1:D:2110:TYR:HD2	1:D:3696:ASP:CB	1.69	1.04
1:C:72:SER:CA	1:C:106:ALA:O	2.05	1.04
1:A:4937:ILE:HD12	1:D:4934:GLY:HA2	1.11	1.04
1:A:4184:MET:HA	1:A:5021:PHE:O	1.57	1.04
1:B:4978:HIS:CE1	1:B:4983:HIS:CD2	2.39	1.04
1:C:1095:VAL:H	1:C:1200:GLY:HA2	1.19	1.04
1:C:1288:PHE:O	1:C:1553:PHE:CA	2.06	1.04
1:D:4195:PHE:CE2	1:D:4991:PHE:CD2	2.45	1.04
1:A:1288:PHE:O	1:A:1553:PHE:CA	2.06	1.04
1:C:1122:TYR:CD1	1:C:1133:HIS:O	2.09	1.04
1:D:1095:VAL:H	1:D:1200:GLY:HA2	1.19	1.03

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:4195:PHE:CE2	1:D:4991:PHE:HA	1.93	1.03
1:A:634:GLN:O	1:A:1639:LEU:CB	2.07	1.03
1:C:77:ALA:HA	1:D:3935:TRP:NE1	1.72	1.03
1:D:4184:MET:HA	1:D:5021:PHE:O	1.57	1.03
1:D:875:ALA:HB1	1:D:925:SER:CB	1.88	1.03
1:A:4936:ILE:HG21	1:D:4930:ALA:HB1	1.34	1.03
1:A:840:VAL:CB	1:A:1199:VAL:CB	2.36	1.03
1:C:4677:LEU:CD2	1:C:4711:PHE:CZ	2.40	1.03
1:B:4934:GLY:HA3	1:C:4937:ILE:HD13	1.38	1.03
1:D:1288:PHE:O	1:D:1553:PHE:CA	2.06	1.03
1:D:2145:SER:CB	1:D:3645:PRO:CB	2.34	1.03
1:A:3986:TRP:HB3	1:A:3987:ASP:CB	1.89	1.03
1:B:1096:THR:CB	1:B:1199:VAL:H	1.72	1.03
1:B:1122:TYR:CD1	1:B:1133:HIS:O	2.09	1.03
1:D:4575:PHE:CD1	1:D:4576:ILE:HD13	1.91	1.03
1:B:1124:PHE:CB	1:B:1130:GLN:O	2.07	1.03
1:B:3986:TRP:HB3	1:B:3987:ASP:CB	1.89	1.03
1:C:3658:LYS:HA	1:C:3661:TRP:HD1	1.21	1.03
1:D:634:GLN:O	1:D:1639:LEU:CB	2.07	1.03
1:B:72:SER:CA	1:B:106:ALA:O	2.05	1.03
1:C:1295:VAL:O	1:C:1547:LYS:HA	1.55	1.03
1:B:77:ALA:CB	1:C:3935:TRP:NE1	2.22	1.03
1:C:4195:PHE:CE2	1:C:4991:PHE:HA	1.93	1.03
1:C:840:VAL:CB	1:C:1199:VAL:CB	2.36	1.03
1:D:72:SER:CA	1:D:106:ALA:O	2.05	1.03
1:B:840:VAL:CB	1:B:1199:VAL:CB	2.36	1.03
1:C:1124:PHE:CB	1:C:1130:GLN:O	2.07	1.03
1:D:4783:ILE:O	1:D:4789:PHE:CD2	2.12	1.03
1:B:4783:ILE:O	1:B:4789:PHE:CD2	2.12	1.03
1:C:1096:THR:CB	1:C:1199:VAL:H	1.72	1.03
1:A:1096:THR:CB	1:A:1199:VAL:H	1.72	1.02
1:A:77:ALA:CB	1:B:3935:TRP:NE1	2.22	1.02
1:A:3935:TRP:CD1	1:D:77:ALA:CA	2.42	1.02
1:B:1255:TYR:CB	1:B:1279:SER:CB	2.37	1.02
1:C:4978:HIS:HE1	1:C:4983:HIS:HE2	1.05	1.02
1:D:117:TYR:HD2	1:D:141:ALA:CB	1.73	1.02
1:D:3986:TRP:HB3	1:D:3987:ASP:CB	1.89	1.02
1:A:117:TYR:HD2	1:A:141:ALA:CB	1.73	1.02
1:B:4184:MET:HA	1:B:5021:PHE:O	1.57	1.02
1:C:312:THR:O	1:C:313:SER:CB	2.04	1.02
1:B:77:ALA:CA	1:C:3935:TRP:CD1	2.42	1.02

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:77:ALA:HA	1:C:3935:TRP:NE1	1.72	1.02
1:C:4783:ILE:O	1:C:4789:PHE:CD2	2.12	1.02
1:C:77:ALA:CB	1:D:3935:TRP:NE1	2.21	1.02
1:A:312:THR:O	1:A:313:SER:CB	2.04	1.02
1:B:1556:PRO:O	1:B:1557:THR:CB	2.05	1.02
1:B:4195:PHE:CE2	1:B:4991:PHE:HA	1.93	1.02
1:C:1288:PHE:C	1:C:1553:PHE:HA	1.79	1.02
1:D:1255:TYR:CB	1:D:1279:SER:CB	2.37	1.02
1:D:1288:PHE:C	1:D:1553:PHE:HA	1.79	1.02
1:C:77:ALA:CA	1:D:3935:TRP:CD1	2.42	1.02
1:C:4978:HIS:CE1	1:C:4983:HIS:CD2	2.39	1.02
1:A:1255:TYR:CB	1:A:1279:SER:CB	2.37	1.02
1:A:4784:PHE:HA	1:A:4789:PHE:HE2	1.22	1.02
1:A:72:SER:CA	1:A:106:ALA:O	2.05	1.02
1:C:1255:TYR:CB	1:C:1279:SER:CB	2.37	1.02
1:C:4673:ARG:HH11	1:C:4673:ARG:HB3	1.22	1.02
1:A:4937:ILE:HD13	1:D:4934:GLY:HA3	1.37	1.02
1:B:789:VAL:O	1:B:1628:VAL:N	1.93	1.02
1:C:117:TYR:HD2	1:C:141:ALA:CB	1.73	1.02
1:C:3986:TRP:HB3	1:C:3987:ASP:CB	1.89	1.02
1:C:4934:GLY:CA	1:D:4937:ILE:CD1	2.38	1.02
1:C:789:VAL:O	1:C:1628:VAL:N	1.93	1.02
1:D:789:VAL:O	1:D:1628:VAL:N	1.92	1.02
1:A:3935:TRP:NE1	1:D:77:ALA:CB	2.22	1.02
1:A:77:ALA:CA	1:B:3935:TRP:CD1	2.41	1.02
1:C:634:GLN:O	1:C:1639:LEU:CB	2.07	1.02
1:C:4090:LYS:H	1:C:4121:GLU:CB	1.73	1.02
1:A:1556:PRO:O	1:A:1557:THR:CB	2.05	1.02
1:A:1588:ALA:HB1	1:A:1589:PRO:HA	1.42	1.02
1:A:789:VAL:O	1:A:1628:VAL:N	1.92	1.02
1:A:4930:ALA:HB3	1:B:4936:ILE:HD12	1.41	1.02
1:C:1164:LEU:O	1:C:1167:GLU:CB	2.08	1.02
1:D:1164:LEU:O	1:D:1167:GLU:CB	2.08	1.02
1:D:840:VAL:CB	1:D:1199:VAL:CB	2.36	1.02
1:B:1288:PHE:C	1:B:1553:PHE:HA	1.79	1.02
1:C:4971:THR:CG2	1:C:4974:GLY:HA3	1.90	1.02
1:A:4673:ARG:HH11	1:A:4673:ARG:HB3	1.22	1.01
1:A:4783:ILE:O	1:A:4789:PHE:CD2	2.12	1.01
1:B:4090:LYS:H	1:B:4121:GLU:CB	1.73	1.01
1:B:4197:ILE:CD1	1:B:4990:PHE:CD2	2.42	1.01
1:D:1096:THR:CB	1:D:1199:VAL:H	1.72	1.01

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:4677:LEU:CD2	1:D:4711:PHE:CZ	2.40	1.01
1:D:4971:THR:CG2	1:D:4974:GLY:HA3	1.90	1.01
1:A:1164:LEU:O	1:A:1167:GLU:CB	2.08	1.01
1:B:1164:LEU:O	1:B:1167:GLU:CB	2.08	1.01
1:B:4141:PHE:HZ	1:B:4196:GLU:CB	1.69	1.01
1:D:790:ARG:CA	1:D:1627:ALA:CA	2.31	1.01
1:D:4197:ILE:CD1	1:D:4990:PHE:CD2	2.42	1.01
1:A:3935:TRP:NE1	1:D:77:ALA:HA	1.73	1.01
1:C:4197:ILE:CD1	1:C:4990:PHE:CD2	2.42	1.01
1:C:875:ALA:HB1	1:C:925:SER:CB	1.88	1.01
1:A:3896:ASN:CB	1:A:3899:PHE:HB3	1.89	1.01
1:C:4914:VAL:CG2	1:D:4888:TYR:HD2	1.73	1.01
1:B:1096:THR:CB	1:B:1199:VAL:N	2.24	1.01
1:B:634:GLN:O	1:B:1639:LEU:CB	2.07	1.01
1:B:3896:ASN:CB	1:B:3899:PHE:HB3	1.89	1.01
1:D:1588:ALA:HB1	1:D:1589:PRO:HA	1.42	1.01
1:D:4181:ILE:O	1:D:4182:GLU:HB2	1.59	1.01
1:A:1124:PHE:CB	1:A:1130:GLN:O	2.07	1.01
1:B:4784:PHE:CA	1:B:4789:PHE:HE2	1.69	1.01
1:B:117:TYR:HD2	1:B:141:ALA:CB	1.73	1.01
1:C:460:GLN:C	1:C:462:GLU:H	1.61	1.01
1:D:1124:PHE:CB	1:D:1130:GLN:O	2.07	1.01
1:D:3658:LYS:HA	1:D:3661:TRP:HD1	1.21	1.01
1:D:3896:ASN:CB	1:D:3899:PHE:HB3	1.89	1.01
1:A:4141:PHE:CE2	1:A:4196:GLU:CB	2.44	1.01
1:C:3896:ASN:CB	1:C:3899:PHE:HB3	1.89	1.01
1:D:1096:THR:CB	1:D:1199:VAL:N	2.24	1.01
1:B:1239:SER:HA	1:B:1608:MET:CB	1.91	1.00
1:A:4971:THR:CG2	1:A:4974:GLY:HA3	1.90	1.00
1:B:1588:ALA:HB1	1:B:1589:PRO:HA	1.42	1.00
1:B:460:GLN:C	1:B:462:GLU:H	1.61	1.00
1:C:1096:THR:CB	1:C:1199:VAL:N	2.24	1.00
1:D:4183:ILE:HG21	1:D:4190:ILE:O	1.61	1.00
1:D:4673:ARG:HB3	1:D:4673:ARG:HH11	1.22	1.00
1:A:1096:THR:CB	1:A:1199:VAL:N	2.24	1.00
1:A:1288:PHE:C	1:A:1553:PHE:HA	1.79	1.00
1:A:4090:LYS:H	1:A:4121:GLU:CB	1.73	1.00
1:B:4971:THR:CG2	1:B:4974:GLY:HA3	1.90	1.00
1:B:875:ALA:HB1	1:B:925:SER:CB	1.88	1.00
1:C:721:LEU:CB	1:C:728:ARG:CA	2.40	1.00
1:D:1287:LEU:CB	1:D:1554:VAL:H	1.72	1.00

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:312:THR:O	1:D:313:SER:CB	2.04	1.00
1:D:4090:LYS:H	1:D:4121:GLU:CB	1.73	1.00
1:B:38:ALA:HB2	1:B:64:ILE:O	1.59	1.00
1:A:4183:ILE:HG21	1:A:4190:ILE:O	1.61	1.00
1:A:4914:VAL:CG2	1:B:4888:TYR:HD2	1.73	1.00
1:A:4195:PHE:CE2	1:A:4991:PHE:CA	2.44	1.00
1:A:875:ALA:HB1	1:A:925:SER:CB	1.88	1.00
1:B:4141:PHE:CE2	1:B:4196:GLU:CB	2.44	1.00
1:C:118:LEU:HA	1:C:137:LEU:HA	1.41	1.00
1:C:4784:PHE:CA	1:C:4789:PHE:HE2	1.69	1.00
1:D:721:LEU:CB	1:D:728:ARG:CA	2.40	1.00
1:D:4141:PHE:CE2	1:D:4196:GLU:CB	2.44	1.00
1:D:38:ALA:HB2	1:D:64:ILE:O	1.59	1.00
1:A:4934:GLY:HA3	1:B:4937:ILE:HD13	1.43	1.00
1:B:3658:LYS:HA	1:B:3661:TRP:HD1	1.21	1.00
1:B:721:LEU:CB	1:B:728:ARG:CA	2.40	1.00
1:A:4677:LEU:CD2	1:A:4711:PHE:CZ	2.40	1.00
1:A:4784:PHE:CA	1:A:4789:PHE:HE2	1.69	1.00
1:B:359:TYR:CB	1:B:376:ALA:CB	2.40	1.00
1:C:4141:PHE:CE2	1:C:4196:GLU:CB	2.44	1.00
1:D:359:TYR:CB	1:D:376:ALA:CB	2.40	1.00
1:A:359:TYR:CB	1:A:376:ALA:CB	2.40	0.99
1:A:721:LEU:CB	1:A:728:ARG:CA	2.40	0.99
1:A:1239:SER:HA	1:A:1608:MET:CB	1.91	0.99
1:C:4930:ALA:HB3	1:D:4936:ILE:HD12	1.41	0.99
1:C:1239:SER:HA	1:C:1608:MET:CB	1.91	0.99
1:D:118:LEU:HA	1:D:137:LEU:HA	1.41	0.99
1:B:2102:VAL:HA	1:B:2105:TRP:CD1	1.98	0.99
1:C:2102:VAL:HA	1:C:2105:TRP:CD1	1.98	0.99
1:B:4914:VAL:CG2	1:C:4888:TYR:HD2	1.75	0.99
1:A:4195:PHE:CE2	1:A:4991:PHE:HA	1.97	0.99
1:C:1588:ALA:HB1	1:C:1589:PRO:HA	1.42	0.99
1:C:359:TYR:CB	1:C:376:ALA:CB	2.40	0.99
1:C:4183:ILE:HG21	1:C:4190:ILE:O	1.61	0.99
1:A:2102:VAL:HA	1:A:2105:TRP:CD1	1.98	0.99
1:A:4888:TYR:HD2	1:D:4914:VAL:CG2	1.75	0.99
1:A:875:ALA:HB2	1:A:925:SER:CB	1.91	0.99
1:C:4181:ILE:O	1:C:4182:GLU:HB2	1.59	0.99
1:D:4784:PHE:CA	1:D:4789:PHE:HE2	1.69	0.99
1:A:460:GLN:C	1:A:462:GLU:H	1.61	0.99
1:C:4559:PHE:HD1	1:C:4560:TYR:HD1	1.09	0.99

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3658:LYS:HA	1:A:3661:TRP:HD1	1.21	0.99
1:B:4183:ILE:HG21	1:B:4190:ILE:O	1.61	0.99
1:B:4559:PHE:HD1	1:B:4560:TYR:HD1	1.09	0.99
1:A:4935:LEU:HD22	1:B:4940:PHE:CE2	1.98	0.99
1:A:4891:VAL:HG22	1:D:4918:ILE:HG13	1.43	0.98
1:C:38:ALA:HB2	1:C:64:ILE:O	1.59	0.98
1:C:875:ALA:HB2	1:C:925:SER:CB	1.91	0.98
1:D:2102:VAL:HA	1:D:2105:TRP:CD1	1.98	0.98
1:A:4697:VAL:H	1:A:4699:GLY:H	1.12	0.98
1:B:4182:GLU:OE2	1:B:4988:TYR:HB2	1.63	0.98
1:C:4182:GLU:OE2	1:C:4988:TYR:HB2	1.63	0.98
1:A:1287:LEU:CB	1:A:1554:VAL:H	1.72	0.98
1:A:4141:PHE:HZ	1:A:4196:GLU:CB	1.69	0.98
1:C:1239:SER:CB	1:C:1608:MET:CB	2.42	0.98
1:B:4918:ILE:HG13	1:C:4891:VAL:HG22	1.44	0.98
1:A:4235:VAL:HG11	1:A:5019:TRP:CZ3	1.99	0.98
1:B:118:LEU:HA	1:B:137:LEU:HA	1.41	0.98
1:C:4918:ILE:HG13	1:D:4891:VAL:HG22	1.42	0.98
1:B:4195:PHE:CE2	1:B:4991:PHE:CA	2.46	0.98
1:A:1239:SER:CB	1:A:1608:MET:CB	2.42	0.98
1:A:118:LEU:HA	1:A:137:LEU:HA	1.41	0.98
1:B:4235:VAL:HG11	1:B:5019:TRP:CZ3	1.99	0.98
1:C:4195:PHE:CE2	1:C:4991:PHE:CA	2.46	0.98
1:D:4195:PHE:CE2	1:D:4991:PHE:CA	2.46	0.98
1:A:349:GLN:CB	1:A:356:TRP:HA	1.95	0.97
1:B:1239:SER:CB	1:B:1608:MET:CB	2.42	0.97
1:A:38:ALA:HB2	1:A:64:ILE:O	1.59	0.97
1:B:4181:ILE:O	1:B:4182:GLU:HB2	1.59	0.97
1:C:4921:PHE:C	1:C:4925:ILE:HD11	1.84	0.97
1:A:1123:VAL:O	1:A:1132:TRP:N	1.97	0.97
1:B:1123:VAL:O	1:B:1132:TRP:N	1.97	0.97
1:D:4795:TYR:OH	1:D:4813:LEU:HA	1.63	0.97
1:D:875:ALA:HB2	1:D:925:SER:CB	1.91	0.97
1:D:349:GLN:CB	1:D:356:TRP:HA	1.94	0.97
1:A:4181:ILE:O	1:A:4182:GLU:HB2	1.59	0.97
1:D:4697:VAL:H	1:D:4699:GLY:H	1.12	0.97
1:C:349:GLN:CB	1:C:356:TRP:HA	1.94	0.97
1:D:1239:SER:HA	1:D:1608:MET:CB	1.91	0.97
1:D:4115:SER:HA	1:D:4128:PHE:CE2	2.00	0.97
1:A:790:ARG:CB	1:A:1627:ALA:CB	2.42	0.97
1:D:4921:PHE:C	1:D:4925:ILE:HD11	1.84	0.97

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:4957:LYS:HA	1:B:4964:GLY:CA	1.95	0.97
1:C:685:GLY:CA	1:C:713:SER:HA	1.95	0.97
1:D:1239:SER:CB	1:D:1608:MET:CB	2.42	0.97
1:A:4115:SER:HA	1:A:4128:PHE:CE2	2.00	0.97
1:C:4795:TYR:OH	1:C:4813:LEU:HA	1.63	0.97
1:A:1150:GLY:O	1:A:1163:THR:N	1.97	0.96
1:B:4921:PHE:C	1:B:4925:ILE:HD11	1.84	0.96
1:C:4115:SER:HA	1:C:4128:PHE:CE2	2.00	0.96
1:C:790:ARG:CB	1:C:1627:ALA:CB	2.42	0.96
1:D:4182:GLU:OE2	1:D:4988:TYR:HB2	1.63	0.96
1:A:3896:ASN:CB	1:A:3899:PHE:HB2	1.96	0.96
1:B:27:THR:CA	1:B:32:GLN:HA	1.94	0.96
1:C:684:VAL:O	1:C:714:TYR:N	1.98	0.96
1:A:4996:ILE:HG22	1:A:4997:ASN:OD1	1.65	0.96
1:A:4995:LEU:CD1	1:A:5011:TRP:CZ3	2.48	0.96
1:B:684:VAL:O	1:B:714:TYR:N	1.98	0.96
1:C:1291:LEU:CB	1:C:1550:PRO:O	2.14	0.96
1:C:4235:VAL:HG11	1:C:5019:TRP:CZ3	1.99	0.96
1:A:4918:ILE:HG13	1:B:4891:VAL:HG22	1.43	0.96
1:B:790:ARG:CB	1:B:1627:ALA:CB	2.42	0.96
1:C:1150:GLY:O	1:C:1163:THR:N	1.97	0.96
1:B:349:GLN:CB	1:B:356:TRP:HA	1.94	0.96
1:D:4957:LYS:CA	1:D:4964:GLY:HA3	1.96	0.96
1:A:4795:TYR:OH	1:A:4813:LEU:HA	1.63	0.96
1:A:685:GLY:CA	1:A:713:SER:HA	1.95	0.96
1:C:4697:VAL:H	1:C:4699:GLY:H	1.12	0.96
1:D:1123:VAL:O	1:D:1132:TRP:N	1.97	0.96
1:D:1150:GLY:O	1:D:1163:THR:N	1.97	0.96
1:D:28:VAL:N	1:D:31:GLU:O	1.98	0.96
1:A:460:GLN:O	1:A:462:GLU:N	1.98	0.96
1:B:1150:GLY:O	1:B:1163:THR:N	1.97	0.96
1:A:27:THR:CA	1:A:32:GLN:HA	1.94	0.96
1:C:4957:LYS:CA	1:C:4964:GLY:HA3	1.96	0.96
1:D:4235:VAL:HG11	1:D:5019:TRP:CZ3	1.99	0.96
1:B:4115:SER:HA	1:B:4128:PHE:CE2	2.00	0.96
1:B:4795:TYR:OH	1:B:4813:LEU:HA	1.63	0.96
1:C:1123:VAL:O	1:C:1132:TRP:N	1.97	0.96
1:C:27:THR:CA	1:C:32:GLN:HA	1.94	0.96
1:C:918:ARG:HA	1:C:921:ASN:N	1.81	0.96
1:D:460:GLN:O	1:D:462:GLU:N	1.98	0.96
1:D:4957:LYS:HA	1:D:4964:GLY:CA	1.95	0.96

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1536:SER:O	1:A:1537:ASN:CB	2.14	0.96
1:C:790:ARG:CA	1:C:1627:ALA:CA	2.31	0.96
1:D:1297:PHE:CG	1:D:1297:PHE:HB2	1.49	0.96
1:D:245:VAL:O	1:D:247:TYR:N	1.99	0.96
1:A:684:VAL:O	1:A:714:TYR:N	1.98	0.95
1:B:2451:LEU:CA	1:B:2454:ARG:HB3	1.96	0.95
1:B:875:ALA:HB2	1:B:925:SER:CB	1.91	0.95
1:C:460:GLN:O	1:C:462:GLU:N	1.99	0.95
1:C:5031:GLN:NE2	1:C:5031:GLN:O	1.99	0.95
1:D:27:THR:CA	1:D:32:GLN:HA	1.94	0.95
1:A:1297:PHE:CG	1:A:1297:PHE:HB3	1.49	0.95
1:A:2451:LEU:CA	1:A:2454:ARG:HB3	1.96	0.95
1:A:28:VAL:N	1:A:31:GLU:O	1.98	0.95
1:A:4921:PHE:C	1:A:4925:ILE:HD11	1.84	0.95
1:A:784:SER:O	1:A:785:ALA:HB3	1.66	0.95
1:D:685:GLY:CA	1:D:713:SER:HA	1.95	0.95
1:A:4181:ILE:HG22	1:A:4182:GLU:O	1.66	0.95
1:C:4957:LYS:HA	1:C:4964:GLY:CA	1.95	0.95
1:A:1291:LEU:CB	1:A:1550:PRO:O	2.14	0.95
1:A:3986:TRP:CB	1:A:3987:ASP:CB	2.44	0.95
1:A:4653:VAL:O	1:A:4657:CYS:SG	2.25	0.95
1:A:4957:LYS:CA	1:A:4964:GLY:HA3	1.96	0.95
1:C:28:VAL:N	1:C:31:GLU:O	1.98	0.95
1:A:4206:GLU:O	1:A:4207:MET:CB	2.13	0.95
1:A:4930:ALA:CB	1:B:4936:ILE:HD12	1.95	0.95
1:B:28:VAL:N	1:B:31:GLU:O	1.98	0.95
1:B:460:GLN:O	1:B:462:GLU:N	1.98	0.95
1:B:685:GLY:CA	1:B:713:SER:HA	1.95	0.95
1:D:918:ARG:HA	1:D:921:ASN:N	1.81	0.95
1:C:3896:ASN:CB	1:C:3899:PHE:HB2	1.96	0.95
1:A:4957:LYS:HA	1:A:4964:GLY:CA	1.95	0.95
1:B:4957:LYS:CA	1:B:4964:GLY:HA3	1.96	0.95
1:C:4206:GLU:O	1:C:4207:MET:CB	2.13	0.95
1:D:2274:ASP:HA	1:D:2277:ALA:N	1.82	0.95
1:D:3986:TRP:CB	1:D:3987:ASP:CB	2.44	0.95
1:D:4181:ILE:HG22	1:D:4182:GLU:O	1.67	0.95
1:D:4686:LEU:CB	1:D:4692:PRO:HG3	1.97	0.95
1:D:5031:GLN:NE2	1:D:5031:GLN:O	1.99	0.95
1:B:245:VAL:O	1:B:247:TYR:N	1.99	0.95
1:B:5031:GLN:O	1:B:5031:GLN:NE2	1.99	0.95
1:C:4181:ILE:HG22	1:C:4182:GLU:O	1.67	0.95

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1297:PHE:CG	1:D:1297:PHE:HB3	1.49	0.95
1:C:4918:ILE:CG1	1:D:4891:VAL:CG2	2.34	0.95
1:D:4235:VAL:HG11	1:D:5019:TRP:HH2	1.00	0.95
1:A:2536:LEU:O	1:A:2541:PHE:CB	2.15	0.95
1:B:3896:ASN:CB	1:B:3899:PHE:HB2	1.96	0.95
1:B:4728:HIS:O	1:B:4737:ILE:HD11	1.67	0.95
1:C:2451:LEU:CA	1:C:2454:ARG:HB3	1.96	0.95
1:D:1291:LEU:CB	1:D:1550:PRO:O	2.14	0.95
1:D:243:ARG:O	1:D:300:VAL:CB	2.15	0.95
1:B:243:ARG:O	1:B:300:VAL:CB	2.15	0.95
1:B:4653:VAL:O	1:B:4657:CYS:SG	2.25	0.95
1:B:5017:ARG:HB2	1:B:5019:TRP:NE1	1.82	0.95
1:C:245:VAL:O	1:C:247:TYR:N	1.99	0.95
1:C:4686:LEU:CB	1:C:4692:PRO:HG3	1.97	0.95
1:D:2451:LEU:CA	1:D:2454:ARG:HB3	1.96	0.95
1:D:460:GLN:C	1:D:462:GLU:H	1.61	0.95
1:A:2274:ASP:HA	1:A:2277:ALA:N	1.82	0.94
1:A:243:ARG:O	1:A:300:VAL:CB	2.15	0.94
1:A:4728:HIS:O	1:A:4737:ILE:HD11	1.67	0.94
1:A:4935:LEU:HD22	1:B:4940:PHE:HE2	1.28	0.94
1:B:4686:LEU:CB	1:B:4692:PRO:HG3	1.97	0.94
1:C:4141:PHE:N	1:C:4174:PHE:CE2	2.35	0.94
1:A:4784:PHE:C	1:A:4789:PHE:HE2	1.71	0.94
1:A:5031:GLN:O	1:A:5031:GLN:NE2	1.99	0.94
1:A:827:LYS:O	1:A:828:GLU:CB	2.14	0.94
1:B:1291:LEU:CB	1:B:1550:PRO:O	2.14	0.94
1:B:784:SER:O	1:B:785:ALA:HB3	1.66	0.94
1:C:243:ARG:O	1:C:300:VAL:CB	2.15	0.94
1:C:4930:ALA:CB	1:D:4936:ILE:HD12	1.95	0.94
1:A:4918:ILE:CG1	1:B:4891:VAL:CG2	2.35	0.94
1:C:4934:GLY:CA	1:D:4937:ILE:HD12	1.94	0.94
1:C:3986:TRP:CB	1:C:3987:ASP:CB	2.44	0.94
1:C:784:SER:O	1:C:785:ALA:HB3	1.66	0.94
1:C:791:PHE:N	1:C:1626:TRP:O	2.01	0.94
1:A:1297:PHE:HB2	1:A:1297:PHE:CG	1.49	0.94
1:A:1708:ARG:NH1	1:A:1837:GLN:CA	1.96	0.94
1:A:245:VAL:O	1:A:247:TYR:N	1.99	0.94
1:B:3986:TRP:CB	1:B:3987:ASP:CB	2.44	0.94
1:B:918:ARG:HA	1:B:921:ASN:N	1.81	0.94
1:D:1536:SER:O	1:D:1537:ASN:CB	2.14	0.94
1:D:3896:ASN:CB	1:D:3899:PHE:HB2	1.95	0.94

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:684:VAL:O	1:D:714:TYR:N	1.98	0.94
1:D:784:SER:O	1:D:785:ALA:HB3	1.66	0.94
1:D:791:PHE:N	1:D:1626:TRP:O	2.01	0.94
1:A:4559:PHE:HD1	1:A:4560:TYR:HD1	1.09	0.94
1:B:2536:LEU:O	1:B:2541:PHE:CB	2.15	0.94
1:B:4697:VAL:H	1:B:4699:GLY:H	1.11	0.94
1:B:791:PHE:N	1:B:1626:TRP:O	2.01	0.94
1:D:1096:THR:CB	1:D:1198:GLN:CA	2.46	0.94
1:B:4181:ILE:HG22	1:B:4182:GLU:O	1.67	0.94
1:C:1096:THR:CB	1:C:1198:GLN:CA	2.46	0.94
1:C:1297:PHE:CG	1:C:1297:PHE:HB2	1.49	0.94
1:C:4784:PHE:C	1:C:4789:PHE:HE2	1.71	0.94
1:D:1515:VAL:O	1:D:1529:PHE:CB	2.16	0.94
1:C:77:ALA:CA	1:D:3935:TRP:NE1	2.31	0.94
1:A:790:ARG:CA	1:A:1627:ALA:CA	2.31	0.94
1:A:4686:LEU:CB	1:A:4692:PRO:HG3	1.97	0.94
1:A:4768:LEU:HD13	1:A:4770:SER:H	1.33	0.94
1:C:5017:ARG:HB2	1:C:5019:TRP:NE1	1.82	0.94
1:D:827:LYS:O	1:D:828:GLU:CB	2.14	0.94
1:A:791:PHE:N	1:A:1626:TRP:O	2.01	0.94
1:A:4141:PHE:N	1:A:4174:PHE:CE2	2.35	0.94
1:B:1515:VAL:O	1:B:1529:PHE:CB	2.16	0.94
1:B:4768:LEU:HD13	1:B:4770:SER:H	1.33	0.94
1:B:4784:PHE:C	1:B:4789:PHE:HE2	1.71	0.94
1:C:1276:THR:CB	1:C:1562:ILE:O	2.16	0.94
1:D:2536:LEU:O	1:D:2541:PHE:CB	2.15	0.94
1:D:4206:GLU:O	1:D:4207:MET:CB	2.13	0.94
1:D:4653:VAL:O	1:D:4657:CYS:SG	2.25	0.94
1:A:5017:ARG:HB2	1:A:5019:TRP:NE1	1.82	0.94
1:A:77:ALA:CA	1:B:3935:TRP:NE1	2.31	0.94
1:B:4206:GLU:O	1:B:4207:MET:CB	2.13	0.94
1:B:77:ALA:CA	1:C:3935:TRP:NE1	2.31	0.94
1:D:790:ARG:CA	1:D:1627:ALA:HB2	1.94	0.94
1:D:4784:PHE:HA	1:D:4789:PHE:HE2	1.22	0.94
1:A:1515:VAL:O	1:A:1529:PHE:CB	2.16	0.94
1:B:1297:PHE:HB2	1:B:1297:PHE:CG	1.49	0.94
1:B:1297:PHE:HB3	1:B:1297:PHE:CG	1.49	0.94
1:C:790:ARG:CA	1:C:1627:ALA:HB2	1.94	0.94
1:D:1276:THR:CB	1:D:1562:ILE:O	2.16	0.94
1:A:4235:VAL:CG1	1:A:5019:TRP:CH2	2.51	0.93
1:C:2536:LEU:O	1:C:2541:PHE:CB	2.15	0.93

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4834:GLY:O	1:C:4838:VAL:HG23	1.68	0.93
1:D:73:LEU:O	1:D:105:HIS:CB	2.16	0.93
1:B:1276:THR:CB	1:B:1562:ILE:O	2.16	0.93
1:B:4649:LEU:O	1:B:4653:VAL:HG23	1.68	0.93
1:C:4649:LEU:O	1:C:4653:VAL:HG23	1.68	0.93
1:D:4728:HIS:O	1:D:4737:ILE:HD11	1.67	0.93
1:B:2274:ASP:HA	1:B:2277:ALA:N	1.82	0.93
1:C:4653:VAL:O	1:C:4657:CYS:SG	2.25	0.93
1:C:4728:HIS:O	1:C:4737:ILE:HD11	1.67	0.93
1:B:2451:LEU:HA	1:B:2454:ARG:HB3	1.51	0.93
1:B:4834:GLY:O	1:B:4838:VAL:HG23	1.68	0.93
1:B:827:LYS:O	1:B:828:GLU:CB	2.14	0.93
1:D:4141:PHE:HZ	1:D:4196:GLU:CB	1.69	0.93
1:A:918:ARG:HA	1:A:921:ASN:N	1.81	0.93
1:B:4141:PHE:N	1:B:4174:PHE:CE2	2.35	0.93
1:B:4978:HIS:HE1	1:B:4983:HIS:NE2	1.46	0.93
1:D:4141:PHE:N	1:D:4174:PHE:CE2	2.35	0.93
1:D:790:ARG:CB	1:D:1627:ALA:CB	2.42	0.93
1:B:3837:GLN:OE1	1:B:3838:THR:N	2.02	0.93
1:C:4235:VAL:CG1	1:C:5019:TRP:CH2	2.51	0.93
1:D:4784:PHE:C	1:D:4789:PHE:HE2	1.71	0.93
1:D:5017:ARG:HB2	1:D:5019:TRP:NE1	1.82	0.93
1:A:1096:THR:CB	1:A:1198:GLN:CA	2.46	0.93
1:A:3889:GLN:CB	1:A:3964:SER:CB	2.47	0.93
1:B:1536:SER:O	1:B:1537:ASN:CB	2.14	0.93
1:A:4935:LEU:CD2	1:B:4940:PHE:CE2	2.50	0.93
1:C:73:LEU:O	1:C:105:HIS:CB	2.16	0.93
1:C:1297:PHE:CG	1:C:1297:PHE:HB3	1.49	0.93
1:C:1515:VAL:O	1:C:1529:PHE:CB	2.16	0.93
1:B:1096:THR:CB	1:B:1198:GLN:CA	2.46	0.93
1:C:3837:GLN:OE1	1:C:3838:THR:N	2.02	0.93
1:A:3935:TRP:NE1	1:D:77:ALA:CA	2.32	0.93
1:B:168:ASP:CB	1:B:169:LEU:HA	1.99	0.93
1:B:4235:VAL:CG1	1:B:5019:TRP:CH2	2.51	0.93
1:C:2274:ASP:HA	1:C:2277:ALA:N	1.82	0.93
1:C:2110:TYR:CD2	1:C:3696:ASP:CB	2.52	0.93
1:A:73:LEU:O	1:A:105:HIS:CB	2.16	0.93
1:A:1290:ARG:CA	1:A:1551:ALA:CB	2.47	0.93
1:A:2110:TYR:CD2	1:A:3696:ASP:CB	2.52	0.93
1:A:3837:GLN:OE1	1:A:3838:THR:N	2.02	0.93
1:C:2449:GLU:O	1:C:2450:ALA:HB3	1.69	0.93

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4729:GLY:HA2	1:C:4732:PHE:H	1.34	0.93
1:D:3889:GLN:CB	1:D:3964:SER:CB	2.47	0.93
1:A:4834:GLY:O	1:A:4838:VAL:HG23	1.68	0.92
1:B:2449:GLU:O	1:B:2450:ALA:HB3	1.69	0.92
1:B:73:LEU:O	1:B:105:HIS:CB	2.16	0.92
1:C:4663:CYS:O	1:C:4667:PRO:HD3	1.68	0.92
1:C:4738:ALA:HA	1:C:4742:GLY:HA2	1.51	0.92
1:C:4768:LEU:HD13	1:C:4770:SER:H	1.33	0.92
1:D:4978:HIS:HE1	1:D:4983:HIS:NE2	1.46	0.92
1:A:1273:ALA:HB2	1:A:1565:GLU:C	1.90	0.92
1:A:4649:LEU:O	1:A:4653:VAL:HG23	1.68	0.92
1:B:1290:ARG:CA	1:B:1551:ALA:CB	2.47	0.92
1:B:4738:ALA:HA	1:B:4742:GLY:HA2	1.51	0.92
1:D:168:ASP:CB	1:D:169:LEU:HA	1.99	0.92
1:D:2451:LEU:HA	1:D:2454:ARG:HB3	1.50	0.92
1:D:2536:LEU:O	1:D:2541:PHE:HA	1.69	0.92
1:D:4738:ALA:HA	1:D:4742:GLY:HA2	1.51	0.92
1:A:1276:THR:CB	1:A:1562:ILE:O	2.16	0.92
1:A:2536:LEU:O	1:A:2541:PHE:HA	1.69	0.92
1:A:4738:ALA:HA	1:A:4742:GLY:HA2	1.51	0.92
1:C:1076:ARG:O	1:C:1236:THR:CB	2.17	0.92
1:C:1290:ARG:N	1:C:1551:ALA:HB1	1.84	0.92
1:D:4966:ASP:O	1:D:4968:PHE:N	2.02	0.92
1:A:168:ASP:CB	1:A:169:LEU:HA	1.99	0.92
1:B:3889:GLN:CB	1:B:3964:SER:CB	2.47	0.92
1:D:4729:GLY:HA2	1:D:4732:PHE:H	1.34	0.92
1:B:2161:GLN:HE21	1:B:2178:MET:CB	1.83	0.92
1:B:2110:TYR:CD2	1:B:3696:ASP:CB	2.52	0.92
1:B:4729:GLY:HA2	1:B:4732:PHE:H	1.34	0.92
1:C:4141:PHE:HZ	1:C:4196:GLU:CB	1.69	0.92
1:D:4673:ARG:HB3	1:D:4673:ARG:NH1	1.85	0.92
1:A:2190:VAL:O	1:A:2191:PHE:HB3	1.69	0.92
1:A:4673:ARG:NH1	1:A:4673:ARG:HB3	1.85	0.92
1:A:4966:ASP:O	1:A:4968:PHE:N	2.02	0.92
1:B:1027:LEU:O	1:B:1028:ASP:CB	2.18	0.92
1:D:359:TYR:CB	1:D:376:ALA:HB1	1.99	0.92
1:D:4559:PHE:HD1	1:D:4560:TYR:HD1	1.09	0.92
1:A:1076:ARG:O	1:A:1236:THR:CB	2.17	0.92
1:A:1290:ARG:C	1:A:1551:ALA:CB	2.38	0.92
1:A:4663:CYS:O	1:A:4667:PRO:HD3	1.68	0.92
1:A:4978:HIS:HE1	1:A:4983:HIS:NE2	1.46	0.92

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1273:ALA:HB2	1:B:1565:GLU:C	1.90	0.92
1:C:2451:LEU:HA	1:C:2454:ARG:HB3	1.51	0.92
1:A:2121:PHE:HE2	1:A:3702:VAL:CB	1.83	0.92
1:A:359:TYR:CB	1:A:376:ALA:HB1	1.99	0.92
1:A:4172:GLU:O	1:A:4176:PRO:HD3	1.70	0.92
1:B:1076:ARG:O	1:B:1236:THR:CB	2.17	0.92
1:B:4172:GLU:O	1:B:4176:PRO:HD3	1.70	0.92
1:C:1290:ARG:CA	1:C:1551:ALA:CB	2.47	0.92
1:C:168:ASP:CB	1:C:169:LEU:HA	1.99	0.92
1:C:4935:LEU:HD22	1:D:4940:PHE:CE2	2.04	0.92
1:C:4978:HIS:HE2	1:C:4983:HIS:HD2	0.92	0.92
1:D:111:HIS:O	1:D:115:ARG:N	2.02	0.92
1:D:1290:ARG:C	1:D:1551:ALA:CB	2.38	0.92
1:D:2243:SER:O	1:D:2247:GLN:N	2.03	0.92
1:D:3933:PHE:HZ	1:D:3951:PHE:CD2	1.85	0.92
1:D:4834:GLY:O	1:D:4838:VAL:HG23	1.68	0.92
1:B:1287:LEU:CB	1:B:1554:VAL:H	1.72	0.92
1:B:488:LEU:CA	1:B:491:ILE:CB	2.48	0.92
1:C:1290:ARG:O	1:C:1551:ALA:CB	2.18	0.92
1:C:2161:GLN:HE21	1:C:2178:MET:CB	1.83	0.92
1:C:359:TYR:CB	1:C:376:ALA:HB1	1.99	0.92
1:D:1290:ARG:CA	1:D:1551:ALA:CB	2.47	0.92
1:D:2161:GLN:HE21	1:D:2178:MET:CB	1.83	0.92
1:D:4663:CYS:O	1:D:4667:PRO:HD3	1.68	0.92
1:D:4795:TYR:CE1	1:D:4813:LEU:HA	2.05	0.92
1:B:790:ARG:CA	1:B:1627:ALA:CA	2.31	0.92
1:C:3889:GLN:CB	1:C:3964:SER:CB	2.47	0.92
1:C:4795:TYR:CE1	1:C:4813:LEU:HA	2.05	0.92
1:C:483:MET:O	1:C:486:LEU:N	2.03	0.92
1:D:1076:ARG:O	1:D:1236:THR:CB	2.17	0.92
1:D:2110:TYR:CD2	1:D:3696:ASP:CB	2.52	0.92
1:D:4768:LEU:HD13	1:D:4770:SER:H	1.33	0.92
1:B:359:TYR:CB	1:B:376:ALA:HB1	1.99	0.91
1:B:4795:TYR:CE1	1:B:4813:LEU:HA	2.05	0.91
1:C:2121:PHE:HE2	1:C:3702:VAL:CB	1.83	0.91
1:A:4197:ILE:HD11	1:A:4990:PHE:CD2	2.06	0.91
1:B:1290:ARG:N	1:B:1551:ALA:HB1	1.84	0.91
1:C:111:HIS:O	1:C:115:ARG:N	2.02	0.91
1:C:1297:PHE:CB	1:C:1297:PHE:CG	0.86	0.91
1:C:2592:GLY:H	1:C:2595:LEU:H	1.13	0.91
1:C:4172:GLU:O	1:C:4176:PRO:HD3	1.70	0.91

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4966:ASP:O	1:C:4968:PHE:N	2.02	0.91
1:D:4172:GLU:O	1:D:4176:PRO:HD3	1.70	0.91
1:A:1297:PHE:CB	1:A:1297:PHE:CG	0.86	0.91
1:A:2592:GLY:H	1:A:2595:LEU:H	1.13	0.91
1:B:1290:ARG:O	1:B:1551:ALA:HB2	1.70	0.91
1:B:1290:ARG:C	1:B:1551:ALA:CB	2.38	0.91
1:C:2145:SER:CB	1:C:3645:PRO:N	2.34	0.91
1:C:3933:PHE:HZ	1:C:3951:PHE:CD2	1.85	0.91
1:D:3837:GLN:OE1	1:D:3838:THR:N	2.02	0.91
1:A:111:HIS:O	1:A:115:ARG:N	2.02	0.91
1:A:2145:SER:CB	1:A:3645:PRO:N	2.34	0.91
1:B:1290:ARG:O	1:B:1551:ALA:CB	2.18	0.91
1:B:2145:SER:CB	1:B:3645:PRO:N	2.34	0.91
1:B:4663:CYS:O	1:B:4667:PRO:HD3	1.68	0.91
1:C:2243:SER:O	1:C:2247:GLN:N	2.03	0.91
1:A:1290:ARG:N	1:A:1551:ALA:HB1	1.84	0.91
1:A:483:MET:O	1:A:486:LEU:N	2.03	0.91
1:A:488:LEU:CA	1:A:491:ILE:CB	2.48	0.91
1:B:1297:PHE:CB	1:B:1297:PHE:CG	0.86	0.91
1:B:2121:PHE:HE2	1:B:3702:VAL:CB	1.83	0.91
1:B:483:MET:O	1:B:486:LEU:N	2.03	0.91
1:C:500:ALA:O	1:C:503:PHE:HA	1.71	0.91
1:D:1290:ARG:O	1:D:1551:ALA:CB	2.18	0.91
1:D:2121:PHE:HE2	1:D:3702:VAL:CB	1.83	0.91
1:A:1027:LEU:O	1:A:1028:ASP:CB	2.18	0.91
1:A:1164:LEU:O	1:A:1167:GLU:O	1.89	0.91
1:A:1290:ARG:O	1:A:1551:ALA:CB	2.18	0.91
1:B:3658:LYS:HA	1:B:3661:TRP:CD1	2.05	0.91
1:C:1290:ARG:O	1:C:1551:ALA:HB2	1.70	0.91
1:C:4673:ARG:NH1	1:C:4673:ARG:HB3	1.85	0.91
1:C:4942:GLU:CB	1:D:4944:ARG:NH2	2.34	0.91
1:B:1708:ARG:NH1	1:B:1837:GLN:CA	1.96	0.91
1:C:1273:ALA:HB2	1:C:1565:GLU:C	1.90	0.91
1:C:1287:LEU:CB	1:C:1554:VAL:H	1.72	0.91
1:C:702:TRP:NE1	1:C:1640:HIS:CB	2.34	0.91
1:C:488:LEU:CA	1:C:491:ILE:CB	2.48	0.91
1:D:1297:PHE:CG	1:D:1297:PHE:CB	0.86	0.91
1:A:228:ASP:O	1:A:230:CYS:N	2.04	0.91
1:B:117:TYR:HD2	1:B:141:ALA:HB2	0.78	0.91
1:C:4945:ASP:O	1:C:4948:GLU:HG3	1.71	0.91
1:D:1290:ARG:N	1:D:1551:ALA:HB1	1.84	0.91

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:702:TRP:NE1	1:D:1640:HIS:CB	2.34	0.91
1:D:4649:LEU:O	1:D:4653:VAL:HG23	1.68	0.91
1:D:4235:VAL:CG1	1:D:5019:TRP:CH2	2.51	0.91
1:A:4729:GLY:HA2	1:A:4732:PHE:H	1.34	0.91
1:A:4891:VAL:CG2	1:D:4918:ILE:CG1	2.36	0.91
1:B:1164:LEU:O	1:B:1167:GLU:O	1.89	0.91
1:B:4729:GLY:HA2	1:B:4732:PHE:N	1.86	0.91
1:C:1536:SER:O	1:C:1537:ASN:CB	2.14	0.91
1:C:4729:GLY:HA2	1:C:4732:PHE:N	1.86	0.91
1:D:1290:ARG:O	1:D:1551:ALA:HB2	1.70	0.91
1:D:500:ALA:O	1:D:503:PHE:HA	1.71	0.91
1:A:1290:ARG:O	1:A:1551:ALA:HB2	1.70	0.91
1:C:4696:ASP:HA	1:C:4697:VAL:CG1	2.01	0.91
1:D:2145:SER:CB	1:D:3645:PRO:N	2.34	0.91
1:D:483:MET:O	1:D:486:LEU:N	2.03	0.91
1:A:702:TRP:NE1	1:A:1640:HIS:CB	2.34	0.90
1:A:2451:LEU:HA	1:A:2454:ARG:HB3	1.51	0.90
1:C:788:LYS:CA	1:C:1629:GLN:HA	2.01	0.90
1:C:827:LYS:O	1:C:828:GLU:CB	2.14	0.90
1:D:1273:ALA:HB2	1:D:1565:GLU:C	1.90	0.90
1:D:488:LEU:CA	1:D:491:ILE:CB	2.48	0.90
1:A:4795:TYR:CE1	1:A:4813:LEU:HA	2.05	0.90
1:B:4673:ARG:NH1	1:B:4673:ARG:HB3	1.85	0.90
1:C:2190:VAL:O	1:C:2191:PHE:HB3	1.69	0.90
1:D:1027:LEU:O	1:D:1028:ASP:CB	2.17	0.90
1:B:111:HIS:O	1:B:115:ARG:N	2.02	0.90
1:B:4918:ILE:CG1	1:C:4891:VAL:CG2	2.35	0.90
1:A:2243:SER:O	1:A:2247:GLN:N	2.03	0.90
1:B:788:LYS:CA	1:B:1629:GLN:HA	2.01	0.90
1:B:702:TRP:NE1	1:B:1640:HIS:CB	2.34	0.90
1:D:3699:HIS:O	1:D:3702:VAL:N	2.05	0.90
1:A:790:ARG:CA	1:A:1627:ALA:HB2	1.94	0.90
1:B:2243:SER:O	1:B:2247:GLN:N	2.03	0.90
1:B:500:ALA:O	1:B:503:PHE:HA	1.71	0.90
1:D:788:LYS:CA	1:D:1629:GLN:HA	2.01	0.90
1:D:4696:ASP:HA	1:D:4697:VAL:CG1	2.01	0.90
1:B:790:ARG:CA	1:B:1627:ALA:HB2	1.94	0.90
1:B:3699:HIS:O	1:B:3702:VAL:N	2.05	0.90
1:D:1164:LEU:O	1:D:1167:GLU:O	1.89	0.90
1:D:3986:TRP:HB3	1:D:3987:ASP:CA	2.02	0.90
1:D:4729:GLY:HA2	1:D:4732:PHE:N	1.86	0.90

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2161:GLN:HE21	1:A:2178:MET:CB	1.83	0.90
1:A:3658:LYS:HA	1:A:3661:TRP:CD1	2.06	0.90
1:B:4966:ASP:O	1:B:4968:PHE:N	2.02	0.90
1:D:2190:VAL:O	1:D:2191:PHE:HB3	1.70	0.90
1:D:2592:GLY:H	1:D:2595:LEU:H	1.13	0.90
1:B:4195:PHE:CE2	1:B:4991:PHE:CG	2.57	0.90
1:C:228:ASP:O	1:C:230:CYS:N	2.04	0.90
1:C:4222:VAL:CB	1:C:4950:VAL:HG22	2.01	0.90
1:B:2536:LEU:O	1:B:2541:PHE:HA	1.69	0.90
1:C:4935:LEU:CD2	1:D:4940:PHE:CE2	2.55	0.90
1:B:228:ASP:O	1:B:230:CYS:N	2.04	0.90
1:B:219:VAL:CB	1:B:260:TRP:O	2.20	0.90
1:D:4555:LEU:CA	1:D:4558:ASN:CB	2.50	0.90
1:A:3986:TRP:HB3	1:A:3987:ASP:CA	2.02	0.89
1:A:4729:GLY:HA2	1:A:4732:PHE:N	1.86	0.89
1:A:788:LYS:CA	1:A:1629:GLN:HA	2.01	0.89
1:C:1164:LEU:O	1:C:1167:GLU:O	1.89	0.89
1:C:1290:ARG:C	1:C:1551:ALA:CB	2.38	0.89
1:C:3658:LYS:HA	1:C:3661:TRP:CD1	2.06	0.89
1:D:2449:GLU:O	1:D:2450:ALA:HB3	1.69	0.89
1:A:219:VAL:CB	1:A:260:TRP:O	2.20	0.89
1:D:229:GLU:CB	1:D:248:GLU:O	2.20	0.89
1:A:117:TYR:HD2	1:A:141:ALA:HB2	0.78	0.89
1:A:2449:GLU:O	1:A:2450:ALA:HB3	1.69	0.89
1:A:4555:LEU:CA	1:A:4558:ASN:CB	2.50	0.89
1:B:229:GLU:CB	1:B:248:GLU:O	2.20	0.89
1:C:3986:TRP:HB3	1:C:3987:ASP:CA	2.02	0.89
1:B:1708:ARG:HH12	1:B:1837:GLN:CB	1.85	0.89
1:B:4696:ASP:HA	1:B:4697:VAL:CG1	2.01	0.89
1:C:4935:LEU:HD22	1:D:4940:PHE:HE2	1.35	0.89
1:A:500:ALA:O	1:A:503:PHE:HA	1.71	0.89
1:A:504:ALA:O	1:A:505:GLU:CB	2.21	0.89
1:B:4555:LEU:CA	1:B:4558:ASN:CB	2.50	0.89
1:C:1440:PHE:O	1:C:1441:ALA:HB2	1.71	0.89
1:C:4555:LEU:CA	1:C:4558:ASN:CB	2.50	0.89
1:A:1708:ARG:HH12	1:A:1837:GLN:CB	1.85	0.89
1:A:229:GLU:CB	1:A:248:GLU:O	2.20	0.89
1:C:117:TYR:CD2	1:C:141:ALA:CB	2.53	0.89
1:C:2536:LEU:O	1:C:2541:PHE:HA	1.69	0.89
1:D:1708:ARG:NH1	1:D:1837:GLN:CA	1.96	0.89
1:D:228:ASP:O	1:D:230:CYS:N	2.04	0.89

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:219:VAL:CB	1:D:260:TRP:O	2.20	0.89
1:A:4696:ASP:HA	1:A:4697:VAL:CG1	2.01	0.89
1:A:4978:HIS:O	1:A:4982:GLU:CB	2.21	0.89
1:A:250:GLY:O	1:A:253:CYS:CB	2.21	0.89
1:A:3934:TYR:OH	1:A:3998:HIS:HB3	1.73	0.89
1:C:3699:HIS:O	1:C:3702:VAL:N	2.05	0.89
1:A:4783:ILE:HD11	1:A:4789:PHE:CE1	2.08	0.89
1:B:1440:PHE:O	1:B:1441:ALA:HB2	1.71	0.89
1:C:4978:HIS:HE1	1:C:4983:HIS:NE2	1.46	0.89
1:C:504:ALA:O	1:C:505:GLU:CB	2.21	0.89
1:A:3699:HIS:O	1:A:3702:VAL:N	2.05	0.88
1:A:499:THR:N	1:A:500:ALA:HA	1.86	0.88
1:B:2190:VAL:O	1:B:2191:PHE:HB3	1.69	0.88
1:B:318:VAL:HA	1:B:346:CYS:CB	2.03	0.88
1:B:3934:TYR:OH	1:B:3998:HIS:HB3	1.73	0.88
1:C:1708:ARG:HH12	1:C:1837:GLN:CB	1.85	0.88
1:C:219:VAL:CB	1:C:260:TRP:O	2.20	0.88
1:D:3658:LYS:HA	1:D:3661:TRP:CD1	2.06	0.88
1:D:504:ALA:O	1:D:505:GLU:CB	2.21	0.88
1:A:3213:TYR:CB	1:A:3303:PRO:CB	2.51	0.88
1:D:721:LEU:CB	1:D:728:ARG:O	2.21	0.88
1:A:4183:ILE:HG21	1:A:4190:ILE:HG12	1.56	0.88
1:B:3213:TYR:CB	1:B:3303:PRO:CB	2.51	0.88
1:B:318:VAL:CA	1:B:346:CYS:CB	2.52	0.88
1:B:4978:HIS:HE2	1:B:4983:HIS:HD2	0.92	0.88
1:C:3934:TYR:OH	1:C:3998:HIS:HB3	1.73	0.88
1:D:1708:ARG:HH12	1:D:1837:GLN:CB	1.85	0.88
1:C:77:ALA:HB1	1:D:3935:TRP:HE1	1.38	0.88
1:B:3986:TRP:HB3	1:B:3987:ASP:CA	2.02	0.88
1:B:4545:GLU:O	1:B:4549:VAL:HG23	1.74	0.88
1:D:1440:PHE:O	1:D:1441:ALA:HB2	1.71	0.88
1:D:318:VAL:HA	1:D:346:CYS:CB	2.03	0.88
1:A:318:VAL:CA	1:A:346:CYS:CB	2.52	0.88
1:A:3933:PHE:HZ	1:A:3951:PHE:CD2	1.85	0.88
1:B:4183:ILE:HG21	1:B:4190:ILE:HG12	1.55	0.88
1:B:4778:TRP:O	1:B:4782:VAL:HG23	1.74	0.88
1:D:4235:VAL:CG1	1:D:5019:TRP:CZ3	2.56	0.88
1:D:4978:HIS:HE2	1:D:4983:HIS:HD2	0.92	0.88
1:B:4783:ILE:HD11	1:B:4789:PHE:CE1	2.08	0.88
1:B:721:LEU:CB	1:B:728:ARG:O	2.22	0.88
1:C:1027:LEU:O	1:C:1028:ASP:CB	2.18	0.88

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:229:GLU:CB	1:C:248:GLU:O	2.20	0.88
1:C:4183:ILE:HG21	1:C:4190:ILE:HG12	1.55	0.88
1:C:4778:TRP:O	1:C:4782:VAL:HG23	1.74	0.88
1:D:4183:ILE:HG21	1:D:4190:ILE:HG12	1.56	0.88
1:D:4779:LYS:O	1:D:4783:ILE:HG22	1.74	0.88
1:A:318:VAL:HA	1:A:346:CYS:CB	2.03	0.88
1:A:4696:ASP:CA	1:A:4697:VAL:HG13	2.04	0.88
1:B:2592:GLY:H	1:B:2595:LEU:H	1.13	0.88
1:B:3987:ASP:H	1:B:3990:VAL:H	0.89	0.88
1:B:499:THR:N	1:B:500:ALA:HA	1.86	0.88
1:C:1203:ASN:HA	1:C:1204:LEU:CB	2.04	0.88
1:C:250:GLY:O	1:C:253:CYS:CB	2.21	0.88
1:C:3933:PHE:CE1	1:C:3951:PHE:CD2	2.62	0.88
1:D:250:GLY:O	1:D:253:CYS:CB	2.21	0.88
1:D:4696:ASP:CA	1:D:4697:VAL:HG13	2.04	0.88
1:A:1440:PHE:O	1:A:1441:ALA:HB2	1.71	0.88
1:B:3933:PHE:CE1	1:B:3951:PHE:CD2	2.62	0.88
1:A:77:ALA:HB1	1:B:3935:TRP:HE1	1.38	0.88
1:B:250:GLY:O	1:B:253:CYS:CB	2.21	0.88
1:B:4779:LYS:O	1:B:4783:ILE:HG22	1.74	0.88
1:B:4235:VAL:CG1	1:B:5019:TRP:CZ3	2.56	0.88
1:C:4783:ILE:HD11	1:C:4789:PHE:CE1	2.08	0.88
1:C:721:LEU:CB	1:C:728:ARG:O	2.22	0.88
1:A:162:LYS:O	1:A:164:ARG:N	2.07	0.88
1:C:4555:LEU:O	1:C:4559:PHE:N	2.08	0.88
1:D:117:TYR:HD2	1:D:141:ALA:HB2	0.78	0.88
1:D:162:LYS:O	1:D:164:ARG:N	2.07	0.88
1:D:4217:PHE:O	1:D:4221:VAL:HG23	1.74	0.88
1:A:4195:PHE:CE2	1:A:4991:PHE:CG	2.47	0.87
1:A:4235:VAL:CG1	1:A:5019:TRP:CZ3	2.56	0.87
1:A:4570:ALA:HB1	1:A:4813:LEU:CB	2.04	0.87
1:C:4779:LYS:O	1:C:4783:ILE:HG22	1.74	0.87
1:C:4928:LEU:HA	1:C:4931:ILE:CD1	2.04	0.87
1:D:3213:TYR:CB	1:D:3303:PRO:CB	2.51	0.87
1:D:3933:PHE:CE1	1:D:3951:PHE:CD2	2.62	0.87
1:D:4545:GLU:O	1:D:4549:VAL:HG23	1.74	0.87
1:D:499:THR:N	1:D:500:ALA:HA	1.86	0.87
1:A:3935:TRP:HE1	1:D:77:ALA:HB1	1.38	0.87
1:A:1203:ASN:HA	1:A:1204:LEU:CB	2.04	0.87
1:A:4779:LYS:O	1:A:4783:ILE:HG22	1.74	0.87
1:D:4978:HIS:O	1:D:4982:GLU:CB	2.21	0.87

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4545:GLU:O	1:A:4549:VAL:HG23	1.74	0.87
1:B:4222:VAL:CB	1:B:4950:VAL:HG22	2.03	0.87
1:B:504:ALA:O	1:B:505:GLU:CB	2.21	0.87
1:C:3213:TYR:CB	1:C:3303:PRO:CB	2.51	0.87
1:C:4978:HIS:O	1:C:4982:GLU:CB	2.21	0.87
1:D:119:SER:O	1:D:136:GLY:O	1.93	0.87
1:A:4891:VAL:HG21	1:D:4918:ILE:HG13	0.88	0.87
1:A:4090:LYS:N	1:A:4121:GLU:CB	2.38	0.87
1:B:4570:ALA:HB1	1:B:4813:LEU:CB	2.04	0.87
1:C:4235:VAL:CG1	1:C:5019:TRP:CZ3	2.56	0.87
1:D:4570:ALA:HB1	1:D:4813:LEU:CB	2.04	0.87
1:A:3933:PHE:CE1	1:A:3951:PHE:CD2	2.62	0.87
1:A:4217:PHE:O	1:A:4221:VAL:HG23	1.74	0.87
1:B:1203:ASN:HA	1:B:1204:LEU:CB	2.04	0.87
1:B:4834:GLY:HA2	1:B:4837:LEU:HB3	1.57	0.87
1:B:77:ALA:HB1	1:C:3935:TRP:HE1	1.38	0.87
1:C:4105:GLY:O	1:C:4108:ILE:HG13	1.75	0.87
1:D:4778:TRP:O	1:D:4782:VAL:HG23	1.74	0.87
1:A:721:LEU:CB	1:A:728:ARG:O	2.22	0.87
1:C:318:VAL:CA	1:C:346:CYS:CB	2.52	0.87
1:C:500:ALA:CB	1:C:515:TRP:CH2	2.58	0.87
1:D:1203:ASN:HA	1:D:1204:LEU:CB	2.04	0.87
1:D:318:VAL:CA	1:D:346:CYS:CB	2.52	0.87
1:D:4783:ILE:HD11	1:D:4789:PHE:CE1	2.08	0.87
1:D:4928:LEU:HA	1:D:4931:ILE:CD1	2.04	0.87
1:B:4696:ASP:CA	1:B:4697:VAL:HG13	2.04	0.87
1:B:4918:ILE:HG13	1:C:4891:VAL:HG21	0.87	0.87
1:B:4928:LEU:HA	1:B:4931:ILE:CD1	2.05	0.87
1:C:4570:ALA:HB1	1:C:4813:LEU:CB	2.04	0.87
1:D:3934:TYR:OH	1:D:3998:HIS:HB3	1.73	0.87
1:A:4195:PHE:CZ	1:A:4991:PHE:CB	2.49	0.87
1:A:4935:LEU:CD2	1:B:4940:PHE:HE2	1.88	0.87
1:B:4090:LYS:N	1:B:4121:GLU:CB	2.38	0.87
1:B:4978:HIS:O	1:B:4982:GLU:CB	2.21	0.87
1:C:4696:ASP:CA	1:C:4697:VAL:HG13	2.04	0.87
1:C:4918:ILE:HG13	1:D:4891:VAL:HG21	0.87	0.87
1:A:4778:TRP:O	1:A:4782:VAL:HG23	1.74	0.87
1:B:119:SER:O	1:B:136:GLY:O	1.93	0.87
1:A:117:TYR:CD2	1:A:141:ALA:CB	2.53	0.86
1:A:4928:LEU:HA	1:A:4931:ILE:CD1	2.04	0.86
1:B:4105:GLY:O	1:B:4108:ILE:HG13	1.75	0.86

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1086:GLY:O	1:C:1155:LEU:N	2.08	0.86
1:A:701:GLY:N	1:A:1645:ASN:O	2.08	0.86
1:B:1124:PHE:HB2	1:B:1131:ARG:N	1.90	0.86
1:B:500:ALA:CB	1:B:515:TRP:CH2	2.58	0.86
1:C:1237:TRP:HA	1:C:1611:HIS:HA	1.56	0.86
1:D:3987:ASP:H	1:D:3990:VAL:H	0.89	0.86
1:D:4555:LEU:O	1:D:4559:PHE:N	2.08	0.86
1:B:4217:PHE:O	1:B:4221:VAL:HG23	1.74	0.86
1:C:318:VAL:HA	1:C:346:CYS:CB	2.03	0.86
1:C:3708:THR:O	1:C:3710:LEU:HA	1.74	0.86
1:C:4545:GLU:O	1:C:4549:VAL:HG23	1.74	0.86
1:D:1237:TRP:HA	1:D:1611:HIS:CB	2.05	0.86
1:D:509:GLU:O	1:D:512:ALA:N	2.08	0.86
1:A:4978:HIS:HE2	1:A:4983:HIS:HD2	0.92	0.86
1:B:3933:PHE:HZ	1:B:3951:PHE:CD2	1.85	0.86
1:B:4555:LEU:O	1:B:4559:PHE:N	2.08	0.86
1:C:3987:ASP:H	1:C:3990:VAL:H	0.89	0.86
1:C:5021:PHE:CE1	1:C:5022:PHE:HD1	1.94	0.86
1:D:117:TYR:CD2	1:D:141:ALA:CB	2.53	0.86
1:D:4105:GLY:O	1:D:4108:ILE:HG13	1.75	0.86
1:D:4834:GLY:HA2	1:D:4837:LEU:HB3	1.57	0.86
1:B:1721:GLU:O	1:B:1724:CYS:N	2.09	0.86
1:B:3070:ILE:O	1:B:3073:ARG:N	2.09	0.86
1:C:4720:VAL:O	1:C:4724:VAL:HG23	1.76	0.86
1:C:499:THR:N	1:C:500:ALA:HA	1.86	0.86
1:D:1246:GLU:O	1:D:1601:MET:O	1.93	0.86
1:D:3708:THR:O	1:D:3710:LEU:HA	1.74	0.86
1:D:4720:VAL:O	1:D:4724:VAL:HG23	1.75	0.86
1:D:5021:PHE:CE1	1:D:5022:PHE:HD1	1.94	0.86
1:A:1124:PHE:HB2	1:A:1131:ARG:N	1.90	0.86
1:A:1246:GLU:O	1:A:1601:MET:O	1.93	0.86
1:A:4697:VAL:HG23	1:A:4698:LYS:CB	2.06	0.86
1:B:701:GLY:N	1:B:1645:ASN:O	2.08	0.86
1:C:119:SER:O	1:C:136:GLY:O	1.93	0.86
1:C:162:LYS:O	1:C:164:ARG:N	2.07	0.86
1:C:509:GLU:O	1:C:512:ALA:N	2.08	0.86
1:D:1096:THR:CB	1:D:1198:GLN:CB	2.54	0.86
1:D:4697:VAL:H	1:D:4699:GLY:N	1.73	0.86
1:A:838:HIS:C	1:A:1200:GLY:O	2.14	0.86
1:A:500:ALA:CB	1:A:515:TRP:CH2	2.58	0.86
1:A:509:GLU:O	1:A:512:ALA:N	2.08	0.86

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:838:HIS:C	1:C:1200:GLY:O	2.14	0.86
1:D:1085:SER:CA	1:D:1155:LEU:CB	2.54	0.86
1:D:4090:LYS:N	1:D:4121:GLU:CB	2.38	0.86
1:A:1124:PHE:CB	1:A:1130:GLN:C	2.43	0.86
1:A:4141:PHE:O	1:A:4145:VAL:HG23	1.75	0.86
1:B:162:LYS:O	1:B:164:ARG:N	2.07	0.86
1:B:4697:VAL:HG23	1:B:4698:LYS:CB	2.06	0.86
1:C:1096:THR:CB	1:C:1198:GLN:CB	2.54	0.86
1:C:1217:CYS:O	1:C:1221:GLU:N	2.09	0.86
1:C:4952:GLU:O	1:C:4956:THR:HG23	1.75	0.86
1:D:4696:ASP:CB	1:D:4697:VAL:HG21	2.06	0.86
1:A:5021:PHE:CE1	1:A:5022:PHE:HD1	1.94	0.86
1:C:117:TYR:HD2	1:C:141:ALA:HB2	0.78	0.86
1:C:1708:ARG:NH1	1:C:1837:GLN:CA	1.96	0.86
1:C:4697:VAL:H	1:C:4699:GLY:N	1.73	0.86
1:D:1237:TRP:HA	1:D:1611:HIS:HA	1.56	0.86
1:A:1828:ASP:CB	1:A:1829:PRO:HA	2.06	0.86
1:A:3708:THR:O	1:A:3710:LEU:HA	1.74	0.86
1:A:4180:ARG:H	1:A:4181:ILE:CD1	1.89	0.86
1:B:1828:ASP:CB	1:B:1829:PRO:HA	2.06	0.86
1:B:3708:THR:O	1:B:3710:LEU:HA	1.74	0.86
1:B:4141:PHE:HA	1:B:4174:PHE:HD2	1.41	0.86
1:C:1085:SER:CA	1:C:1155:LEU:CB	2.54	0.86
1:C:1828:ASP:CB	1:C:1829:PRO:HA	2.06	0.86
1:C:4915:VAL:O	1:C:4919:THR:HG22	1.76	0.86
1:C:4235:VAL:HG11	1:C:5019:TRP:HH2	1.00	0.86
1:D:838:HIS:C	1:D:1200:GLY:O	2.14	0.86
1:D:4915:VAL:O	1:D:4919:THR:HG22	1.76	0.86
1:D:500:ALA:CB	1:D:515:TRP:CH2	2.58	0.86
1:A:119:SER:O	1:A:136:GLY:O	1.93	0.85
1:A:1237:TRP:HA	1:A:1611:HIS:CA	2.05	0.85
1:A:1721:GLU:O	1:A:1724:CYS:N	2.09	0.85
1:A:4834:GLY:HA2	1:A:4837:LEU:HB3	1.57	0.85
1:A:4937:ILE:HD11	1:D:4934:GLY:HA3	1.32	0.85
1:B:1096:THR:CB	1:B:1198:GLN:CB	2.54	0.85
1:B:4180:ARG:H	1:B:4181:ILE:CD1	1.89	0.85
1:B:4243:PHE:HD2	1:B:4671:PHE:CZ	1.67	0.85
1:B:4836:GLN:O	1:B:4840:THR:HG23	1.76	0.85
1:B:4891:VAL:O	1:B:4893:ALA:HA	1.76	0.85
1:B:4915:VAL:O	1:B:4919:THR:HG22	1.76	0.85
1:B:5021:PHE:CE1	1:B:5022:PHE:HD1	1.94	0.85

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1237:TRP:HA	1:C:1611:HIS:CA	2.05	0.85
1:C:1285:GLU:HA	1:C:1286:MET:CB	2.06	0.85
1:D:4180:ARG:H	1:D:4181:ILE:CD1	1.89	0.85
1:A:2130:GLY:O	1:A:2132:GLY:N	2.09	0.85
1:A:3987:ASP:H	1:A:3990:VAL:H	0.89	0.85
1:A:4663:CYS:O	1:A:4666:VAL:HG12	1.76	0.85
1:A:4891:VAL:O	1:A:4893:ALA:HA	1.76	0.85
1:A:720:HIS:C	1:A:728:ARG:O	2.15	0.85
1:B:112:ALA:HA	1:B:115:ARG:H	1.40	0.85
1:B:1085:SER:CA	1:B:1155:LEU:CB	2.54	0.85
1:B:1217:CYS:O	1:B:1221:GLU:N	2.09	0.85
1:B:1237:TRP:HA	1:B:1611:HIS:CB	2.05	0.85
1:B:2274:ASP:O	1:B:2277:ALA:HB3	1.76	0.85
1:B:4141:PHE:O	1:B:4145:VAL:HG23	1.75	0.85
1:C:4090:LYS:N	1:C:4121:GLU:CB	2.38	0.85
1:C:4836:GLN:O	1:C:4840:THR:HG23	1.76	0.85
1:D:4663:CYS:O	1:D:4666:VAL:HG12	1.76	0.85
1:D:4891:VAL:O	1:D:4893:ALA:HA	1.76	0.85
1:C:4942:GLU:CB	1:D:4944:ARG:HH22	1.89	0.85
1:A:112:ALA:HA	1:A:115:ARG:H	1.40	0.85
1:A:4222:VAL:CB	1:A:4950:VAL:HG22	2.04	0.85
1:A:4687:TYR:CA	1:A:4691:GLN:HA	2.06	0.85
1:A:4795:TYR:CZ	1:A:4813:LEU:HA	2.11	0.85
1:B:1086:GLY:O	1:B:1155:LEU:N	2.08	0.85
1:B:117:TYR:CD2	1:B:141:ALA:CB	2.53	0.85
1:B:1237:TRP:HA	1:B:1611:HIS:CA	2.05	0.85
1:C:1525:GLY:O	1:C:1541:GLN:CB	2.25	0.85
1:C:1237:TRP:HA	1:C:1611:HIS:CB	2.05	0.85
1:C:3070:ILE:O	1:C:3073:ARG:N	2.09	0.85
1:D:1525:GLY:O	1:D:1541:GLN:CB	2.25	0.85
1:D:2130:GLY:O	1:D:2132:GLY:N	2.09	0.85
1:A:1525:GLY:O	1:A:1541:GLN:CB	2.25	0.85
1:A:3070:ILE:O	1:A:3073:ARG:N	2.09	0.85
1:A:4105:GLY:O	1:A:4108:ILE:HG13	1.75	0.85
1:B:1285:GLU:HA	1:B:1286:MET:CB	2.06	0.85
1:B:2883:HIS:O	1:B:2887:GLY:N	2.09	0.85
1:B:4851:TYR:O	1:B:4854:VAL:HG23	1.77	0.85
1:C:1721:GLU:O	1:C:1724:CYS:N	2.08	0.85
1:C:4125:PHE:O	1:C:4128:PHE:N	2.10	0.85
1:C:4180:ARG:H	1:C:4181:ILE:CD1	1.89	0.85
1:C:4217:PHE:O	1:C:4221:VAL:HG23	1.74	0.85

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1237:TRP:HA	1:D:1611:HIS:CA	2.05	0.85
1:D:3070:ILE:O	1:D:3073:ARG:N	2.09	0.85
1:D:4125:PHE:O	1:D:4128:PHE:N	2.10	0.85
1:D:4141:PHE:O	1:D:4145:VAL:HG23	1.75	0.85
1:A:4720:VAL:O	1:A:4724:VAL:HG23	1.75	0.85
1:B:1237:TRP:HA	1:B:1611:HIS:HA	1.56	0.85
1:C:638:ILE:O	1:C:1636:MET:N	2.09	0.85
1:C:2274:ASP:O	1:C:2277:ALA:HB3	1.76	0.85
1:C:4141:PHE:O	1:C:4145:VAL:HG23	1.75	0.85
1:D:638:ILE:O	1:D:1636:MET:N	2.09	0.85
1:D:4795:TYR:CZ	1:D:4813:LEU:HA	2.11	0.85
1:A:4243:PHE:HD2	1:A:4671:PHE:CZ	1.67	0.85
1:B:2130:GLY:O	1:B:2132:GLY:N	2.09	0.85
1:B:4998:LYS:O	1:B:5002:GLU:CB	2.25	0.85
1:B:509:GLU:O	1:B:512:ALA:N	2.08	0.85
1:C:1124:PHE:HB2	1:C:1131:ARG:N	1.90	0.85
1:D:1124:PHE:HB2	1:D:1131:ARG:N	1.90	0.85
1:D:1124:PHE:CB	1:D:1130:GLN:C	2.43	0.85
1:D:1285:GLU:HA	1:D:1286:MET:CB	2.06	0.85
1:D:38:ALA:O	1:D:47:CYS:CB	2.25	0.85
1:D:4885:PHE:CZ	1:D:4889:VAL:HG11	2.12	0.85
1:D:720:HIS:C	1:D:728:ARG:O	2.15	0.85
1:A:638:ILE:O	1:A:1636:MET:N	2.09	0.85
1:A:2274:ASP:O	1:A:2277:ALA:HB3	1.76	0.85
1:A:4125:PHE:O	1:A:4128:PHE:N	2.10	0.85
1:A:4697:VAL:H	1:A:4699:GLY:N	1.73	0.85
1:A:4836:GLN:O	1:A:4840:THR:HG23	1.76	0.85
1:A:4915:VAL:O	1:A:4919:THR:HG22	1.76	0.85
1:B:1525:GLY:O	1:B:1541:GLN:CB	2.25	0.85
1:C:2883:HIS:O	1:C:2887:GLY:N	2.09	0.85
1:D:1217:CYS:O	1:D:1221:GLU:N	2.09	0.85
1:D:2883:HIS:O	1:D:2887:GLY:N	2.09	0.85
1:D:4697:VAL:HG23	1:D:4698:LYS:CB	2.06	0.85
1:D:5031:GLN:HG3	1:D:5032:TYR:CD1	2.12	0.85
1:A:1096:THR:CB	1:A:1198:GLN:CB	2.54	0.85
1:A:4851:TYR:O	1:A:4854:VAL:HG23	1.77	0.85
1:A:5031:GLN:HG3	1:A:5032:TYR:CD1	2.12	0.85
1:A:77:ALA:CA	1:B:3935:TRP:HE1	1.89	0.85
1:C:5031:GLN:HG3	1:C:5032:TYR:CD1	2.12	0.85
1:D:1096:THR:N	1:D:1199:VAL:O	2.10	0.85
1:D:1721:GLU:O	1:D:1724:CYS:N	2.09	0.85

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1237:TRP:HA	1:A:1611:HIS:CB	2.05	0.85
1:A:1237:TRP:HA	1:A:1611:HIS:HA	1.56	0.85
1:A:4229:GLU:O	1:A:4233:LEU:HG	1.77	0.85
1:A:4555:LEU:O	1:A:4559:PHE:N	2.08	0.85
1:B:720:HIS:C	1:B:728:ARG:O	2.15	0.85
1:C:1246:GLU:O	1:C:1601:MET:O	1.93	0.85
1:C:4243:PHE:HD2	1:C:4671:PHE:CZ	1.67	0.85
1:C:4795:TYR:CZ	1:C:4813:LEU:HA	2.11	0.85
1:D:112:ALA:HA	1:D:115:ARG:H	1.40	0.85
1:D:4954:MET:HE3	1:D:4955:GLU:N	1.92	0.85
1:B:1096:THR:N	1:B:1199:VAL:O	2.10	0.85
1:B:838:HIS:C	1:B:1200:GLY:O	2.14	0.85
1:B:1229:ASN:HA	1:B:1826:ALA:C	1.97	0.85
1:C:1229:ASN:HA	1:C:1826:ALA:C	1.97	0.85
1:C:2130:GLY:O	1:C:2132:GLY:N	2.09	0.85
1:C:4998:LYS:O	1:C:5002:GLU:CB	2.25	0.85
1:C:720:HIS:C	1:C:728:ARG:O	2.15	0.85
1:D:701:GLY:N	1:D:1645:ASN:O	2.08	0.85
1:D:2191:PHE:HD1	1:D:2192:TYR:CD1	1.95	0.85
1:D:2274:ASP:O	1:D:2277:ALA:HB3	1.76	0.85
1:D:784:SER:O	1:D:785:ALA:CB	2.25	0.85
1:A:1085:SER:CA	1:A:1155:LEU:CB	2.54	0.84
1:A:1217:CYS:O	1:A:1221:GLU:N	2.09	0.84
1:A:4998:LYS:O	1:A:5002:GLU:CB	2.25	0.84
1:B:2191:PHE:HD1	1:B:2192:TYR:CD1	1.95	0.84
1:B:4720:VAL:O	1:B:4724:VAL:HG23	1.76	0.84
1:C:3987:ASP:N	1:C:3990:VAL:H	1.74	0.84
1:C:4195:PHE:HE2	1:C:4991:PHE:CA	1.88	0.84
1:D:3987:ASP:N	1:D:3990:VAL:H	1.74	0.84
1:D:4996:ILE:HG22	1:D:4997:ASN:OD1	1.77	0.84
1:D:4998:LYS:O	1:D:5002:GLU:CB	2.25	0.84
1:A:1096:THR:N	1:A:1199:VAL:O	2.10	0.84
1:B:4125:PHE:O	1:B:4128:PHE:N	2.10	0.84
1:B:4687:TYR:CA	1:B:4691:GLN:HA	2.05	0.84
1:C:1243:PRO:CB	1:C:1605:TRP:O	2.25	0.84
1:C:4141:PHE:HA	1:C:4174:PHE:HD2	1.41	0.84
1:C:4885:PHE:CZ	1:C:4889:VAL:HG11	2.12	0.84
1:D:3823:LYS:O	1:D:3825:GLU:N	2.11	0.84
1:A:1285:GLU:HA	1:A:1286:MET:CB	2.06	0.84
1:A:4885:PHE:CZ	1:A:4889:VAL:HG11	2.12	0.84
1:B:4795:TYR:CZ	1:B:4813:LEU:HA	2.11	0.84

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:5003:HIS:O	1:B:5008:SER:N	2.10	0.84
1:C:1708:ARG:HH11	1:C:1837:GLN:HA	1.41	0.84
1:C:38:ALA:O	1:C:47:CYS:CB	2.25	0.84
1:C:4996:ILE:HG22	1:C:4997:ASN:OD1	1.77	0.84
1:D:4677:LEU:HD23	1:D:4711:PHE:HZ	0.73	0.84
1:D:4851:TYR:O	1:D:4854:VAL:HG23	1.77	0.84
1:A:2191:PHE:HD1	1:A:2192:TYR:CD1	1.95	0.84
1:C:1096:THR:N	1:C:1199:VAL:O	2.10	0.84
1:C:3987:ASP:H	1:C:3990:VAL:N	1.75	0.84
1:C:4891:VAL:O	1:C:4893:ALA:HA	1.76	0.84
1:C:5021:PHE:CE1	1:C:5022:PHE:CD1	2.66	0.84
1:D:5021:PHE:CE1	1:D:5022:PHE:CD1	2.66	0.84
1:A:38:ALA:O	1:A:47:CYS:CB	2.25	0.84
1:A:4918:ILE:HG13	1:B:4891:VAL:HG21	0.87	0.84
1:B:1246:GLU:O	1:B:1601:MET:O	1.93	0.84
1:B:3987:ASP:N	1:B:3990:VAL:H	1.74	0.84
1:B:4229:GLU:O	1:B:4233:LEU:HG	1.77	0.84
1:B:4663:CYS:O	1:B:4666:VAL:HG12	1.76	0.84
1:B:4885:PHE:CZ	1:B:4889:VAL:HG11	2.12	0.84
1:C:4697:VAL:HG23	1:C:4698:LYS:CB	2.06	0.84
1:C:4851:TYR:O	1:C:4854:VAL:HG23	1.77	0.84
1:C:701:GLY:N	1:C:1645:ASN:O	2.08	0.84
1:D:1828:ASP:CB	1:D:1829:PRO:HA	2.06	0.84
1:A:2883:HIS:O	1:A:2887:GLY:N	2.09	0.84
1:A:4235:VAL:CB	1:A:5019:TRP:CZ3	2.61	0.84
1:A:4696:ASP:CB	1:A:4697:VAL:HG21	2.06	0.84
1:B:1243:PRO:CB	1:B:1605:TRP:O	2.25	0.84
1:B:38:ALA:O	1:B:47:CYS:CB	2.25	0.84
1:B:4697:VAL:H	1:B:4699:GLY:N	1.73	0.84
1:C:2452:ARG:O	1:C:2455:ALA:HB3	1.78	0.84
1:D:4687:TYR:CA	1:D:4691:GLN:HA	2.05	0.84
1:A:3935:TRP:HE1	1:D:77:ALA:CA	1.89	0.84
1:A:3987:ASP:H	1:A:3990:VAL:N	1.75	0.84
1:A:4180:ARG:H	1:A:4181:ILE:HD13	1.43	0.84
1:A:4182:GLU:CD	1:A:4988:TYR:HB2	1.97	0.84
1:B:638:ILE:O	1:B:1636:MET:N	2.09	0.84
1:B:4701:TRP:HH2	1:B:4781:GLY:HA2	1.42	0.84
1:B:5021:PHE:CE1	1:B:5022:PHE:CD1	2.65	0.84
1:C:112:ALA:HA	1:C:115:ARG:H	1.40	0.84
1:C:4687:TYR:CA	1:C:4691:GLN:HA	2.06	0.84
1:D:1163:THR:HA	1:D:1168:VAL:HA	1.59	0.84

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:4125:PHE:CD1	1:D:4126:GLU:N	2.46	0.84
1:D:4235:VAL:CB	1:D:5019:TRP:CZ3	2.61	0.84
1:D:4836:GLN:O	1:D:4840:THR:HG23	1.76	0.84
1:D:685:GLY:HA3	1:D:713:SER:CA	2.07	0.84
1:A:1163:THR:HA	1:A:1168:VAL:HA	1.59	0.84
1:A:1243:PRO:CB	1:A:1605:TRP:O	2.25	0.84
1:A:5021:PHE:CE1	1:A:5022:PHE:CD1	2.65	0.84
1:B:3823:LYS:O	1:B:3825:GLU:N	2.11	0.84
1:C:4125:PHE:CD1	1:C:4126:GLU:N	2.46	0.84
1:C:4696:ASP:CB	1:C:4697:VAL:HG21	2.06	0.84
1:D:4180:ARG:H	1:D:4181:ILE:HD13	1.43	0.84
1:D:4222:VAL:CB	1:D:4950:VAL:HG22	2.07	0.84
1:A:784:SER:O	1:A:785:ALA:CB	2.25	0.84
1:C:3823:LYS:O	1:C:3825:GLU:N	2.11	0.84
1:D:5003:HIS:O	1:D:5008:SER:N	2.10	0.84
1:B:4125:PHE:CD1	1:B:4126:GLU:N	2.45	0.84
1:B:4966:ASP:O	1:B:4967:TYR:C	2.16	0.84
1:C:1124:PHE:CB	1:C:1130:GLN:C	2.43	0.84
1:C:2191:PHE:HD1	1:C:2192:TYR:CD1	1.95	0.84
1:D:1243:PRO:CB	1:D:1605:TRP:O	2.25	0.84
1:C:77:ALA:CA	1:D:3935:TRP:HE1	1.88	0.84
1:D:4195:PHE:CE2	1:D:4991:PHE:CG	2.57	0.84
1:A:1461:ASP:HA	1:A:1462:MET:CB	2.08	0.83
1:B:4996:ILE:HG22	1:B:4997:ASN:OD1	1.77	0.83
1:C:4207:MET:CB	1:C:4208:PRO:HD2	2.08	0.83
1:D:1229:ASN:HA	1:D:1826:ALA:C	1.97	0.83
1:D:4687:TYR:CA	1:D:4691:GLN:CA	2.52	0.83
1:B:3934:TYR:CZ	1:B:3998:HIS:HB3	2.13	0.83
1:B:4207:MET:CB	1:B:4208:PRO:HD2	2.08	0.83
1:B:5031:GLN:HG3	1:B:5032:TYR:CD1	2.12	0.83
1:C:4656:LEU:O	1:C:4656:LEU:HD22	1.78	0.83
1:D:4141:PHE:HA	1:D:4174:PHE:HD2	1.41	0.83
1:D:4229:GLU:O	1:D:4233:LEU:HG	1.77	0.83
1:A:4125:PHE:CD1	1:A:4126:GLU:N	2.46	0.83
1:A:4195:PHE:CE2	1:A:4991:PHE:HD2	1.94	0.83
1:C:1126:GLY:C	1:C:1143:TRP:CB	2.47	0.83
1:D:4656:LEU:O	1:D:4656:LEU:HD22	1.78	0.83
1:B:2452:ARG:O	1:B:2455:ALA:HB3	1.78	0.83
1:C:3902:TYR:CE1	1:C:3906:GLN:CB	2.62	0.83
1:A:3823:LYS:O	1:A:3825:GLU:N	2.11	0.83
1:A:682:LEU:HA	1:A:782:SER:O	1.79	0.83

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3987:ASP:H	1:B:3990:VAL:N	1.75	0.83
1:B:682:LEU:HA	1:B:782:SER:O	1.79	0.83
1:C:4834:GLY:HA2	1:C:4837:LEU:HB3	1.57	0.83
1:D:4207:MET:CB	1:D:4208:PRO:HD2	2.08	0.83
1:D:422:SER:N	1:D:423:GLY:HA2	1.94	0.83
1:D:4701:TRP:HH2	1:D:4781:GLY:HA2	1.42	0.83
1:D:4966:ASP:O	1:D:4967:TYR:C	2.16	0.83
1:A:17:ASP:N	1:A:69:LEU:O	2.12	0.83
1:A:720:HIS:O	1:A:728:ARG:O	1.96	0.83
1:B:242:ARG:O	1:B:301:VAL:N	2.12	0.83
1:C:292:ALA:C	1:C:311:ALA:HB3	1.99	0.83
1:C:4677:LEU:HD23	1:C:4711:PHE:HZ	0.73	0.83
1:D:2452:ARG:O	1:D:2455:ALA:HB3	1.78	0.83
1:D:17:ASP:N	1:D:69:LEU:O	2.12	0.83
1:A:242:ARG:O	1:A:301:VAL:N	2.12	0.83
1:A:3934:TYR:CZ	1:A:3998:HIS:HB3	2.13	0.83
1:A:4195:PHE:HZ	1:A:4991:PHE:HB2	1.36	0.83
1:B:4738:ALA:O	1:B:4742:GLY:HA3	1.78	0.83
1:B:4928:LEU:HA	1:B:4931:ILE:HD11	1.61	0.83
1:B:4942:GLU:CB	1:C:4944:ARG:NH2	2.42	0.83
1:B:77:ALA:CA	1:C:3935:TRP:HE1	1.88	0.83
1:C:271:GLY:O	1:C:272:SER:CB	2.27	0.83
1:C:27:THR:CB	1:C:32:GLN:HA	2.09	0.83
1:C:4229:GLU:O	1:C:4233:LEU:HG	1.77	0.83
1:C:682:LEU:HA	1:C:782:SER:O	1.79	0.83
1:D:4181:ILE:HD11	1:D:4194:TYR:HA	1.60	0.83
1:D:4214:LYS:O	1:D:4218:ILE:HG12	1.79	0.83
1:A:1239:SER:O	1:A:1608:MET:CA	2.27	0.83
1:A:4207:MET:CB	1:A:4208:PRO:HD2	2.08	0.83
1:C:4214:LYS:O	1:C:4218:ILE:HG12	1.79	0.83
1:D:1126:GLY:C	1:D:1143:TRP:CB	2.47	0.83
1:D:4928:LEU:HA	1:D:4931:ILE:HD11	1.61	0.83
1:A:1126:GLY:C	1:A:1143:TRP:CB	2.47	0.83
1:A:27:THR:CB	1:A:32:GLN:HA	2.09	0.83
1:A:3902:TYR:CE1	1:A:3906:GLN:CB	2.62	0.83
1:A:5003:HIS:O	1:A:5008:SER:N	2.10	0.83
1:C:2044:ILE:CB	1:C:2053:PRO:HA	2.09	0.83
1:C:242:ARG:O	1:C:301:VAL:N	2.12	0.83
1:C:4663:CYS:O	1:C:4666:VAL:HG12	1.76	0.83
1:D:1461:ASP:HA	1:D:1462:MET:CB	2.08	0.83
1:D:4738:ALA:O	1:D:4742:GLY:HA3	1.78	0.83

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1229:ASN:HA	1:A:1826:ALA:C	1.97	0.83
1:A:4141:PHE:HA	1:A:4174:PHE:HD2	1.41	0.83
1:B:3823:LYS:C	1:B:3825:GLU:H	1.81	0.83
1:A:1086:GLY:O	1:A:1155:LEU:N	2.08	0.82
1:A:4183:ILE:CG2	1:A:4190:ILE:HG12	2.09	0.82
1:B:4214:LYS:O	1:B:4218:ILE:HG12	1.79	0.82
1:B:685:GLY:HA3	1:B:713:SER:CA	2.07	0.82
1:C:2536:LEU:O	1:C:2541:PHE:N	2.12	0.82
1:D:1708:ARG:HH11	1:D:1837:GLN:HA	1.41	0.82
1:A:1708:ARG:HH11	1:A:1837:GLN:HA	1.41	0.82
1:A:2452:ARG:O	1:A:2455:ALA:HB3	1.78	0.82
1:A:3962:PHE:HE2	1:A:4023:MET:HA	0.67	0.82
1:A:3987:ASP:N	1:A:3990:VAL:H	1.74	0.82
1:B:27:THR:CB	1:B:32:GLN:HA	2.09	0.82
1:C:4235:VAL:CB	1:C:5019:TRP:CZ3	2.61	0.82
1:C:4928:LEU:HA	1:C:4931:ILE:HD11	1.61	0.82
1:A:4575:PHE:CE1	1:A:4576:ILE:HD11	1.91	0.82
1:B:2044:ILE:CB	1:B:2053:PRO:HA	2.09	0.82
1:B:4181:ILE:HD11	1:B:4194:TYR:HA	1.60	0.82
1:C:1461:ASP:HA	1:C:1462:MET:CB	2.08	0.82
1:D:1239:SER:O	1:D:1608:MET:CA	2.27	0.82
1:D:292:ALA:C	1:D:311:ALA:HB3	1.99	0.82
1:D:3902:TYR:CE1	1:D:3906:GLN:CB	2.62	0.82
1:D:3934:TYR:CZ	1:D:3998:HIS:HB3	2.13	0.82
1:A:4214:LYS:O	1:A:4218:ILE:HG12	1.79	0.82
1:B:1126:GLY:C	1:B:1143:TRP:CB	2.47	0.82
1:B:1150:GLY:N	1:B:1163:THR:O	2.12	0.82
1:B:1461:ASP:HA	1:B:1462:MET:CB	2.08	0.82
1:B:4183:ILE:CG2	1:B:4190:ILE:HG12	2.09	0.82
1:B:4235:VAL:HG11	1:B:5019:TRP:HH2	1.00	0.82
1:C:1239:SER:O	1:C:1608:MET:CA	2.27	0.82
1:D:2536:LEU:O	1:D:2541:PHE:N	2.12	0.82
1:D:242:ARG:O	1:D:301:VAL:N	2.12	0.82
1:D:3962:PHE:HE2	1:D:4023:MET:HA	0.67	0.82
1:D:720:HIS:O	1:D:728:ARG:O	1.96	0.82
1:A:2044:ILE:CB	1:A:2053:PRO:HA	2.09	0.82
1:A:4738:ALA:O	1:A:4742:GLY:HA3	1.78	0.82
1:B:1272:LEU:N	1:B:1273:ALA:HB3	1.95	0.82
1:B:2536:LEU:O	1:B:2541:PHE:N	2.12	0.82
1:B:4195:PHE:HE2	1:B:4991:PHE:CA	1.88	0.82
1:C:720:HIS:O	1:C:728:ARG:O	1.96	0.82

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:4104:THR:O	1:D:4108:ILE:CG2	2.27	0.82
1:D:4150:LEU:HD12	1:D:4150:LEU:O	1.79	0.82
1:A:4132:PHE:O	1:A:4135:PRO:HD2	1.80	0.82
1:B:1163:THR:HA	1:B:1168:VAL:HA	1.59	0.82
1:B:3902:TYR:CE1	1:B:3906:GLN:CB	2.62	0.82
1:B:422:SER:N	1:B:423:GLY:HA2	1.94	0.82
1:B:4656:LEU:O	1:B:4656:LEU:HD22	1.78	0.82
1:B:720:HIS:O	1:B:728:ARG:O	1.96	0.82
1:C:3934:TYR:CZ	1:C:3998:HIS:HB3	2.13	0.82
1:D:2044:ILE:CB	1:D:2053:PRO:HA	2.09	0.82
1:D:27:THR:CB	1:D:32:GLN:HA	2.09	0.82
1:A:4125:PHE:HD1	1:A:4126:GLU:N	1.78	0.82
1:A:422:SER:N	1:A:423:GLY:HA2	1.94	0.82
1:A:422:SER:H	1:A:423:GLY:HA2	1.44	0.82
1:A:4966:ASP:O	1:A:4967:TYR:C	2.16	0.82
1:A:685:GLY:HA3	1:A:713:SER:CA	2.07	0.82
1:B:1126:GLY:O	1:B:1143:TRP:N	2.12	0.82
1:B:4125:PHE:HD1	1:B:4126:GLU:N	1.78	0.82
1:C:1163:THR:HA	1:C:1168:VAL:HA	1.59	0.82
1:D:1150:GLY:N	1:D:1163:THR:O	2.12	0.82
1:D:3987:ASP:H	1:D:3990:VAL:N	1.75	0.82
1:D:4968:PHE:HB3	1:D:4975:PHE:CA	2.10	0.82
1:A:1126:GLY:O	1:A:1143:TRP:N	2.12	0.82
1:A:2278:ALA:O	1:A:2280:VAL:N	2.13	0.82
1:B:3962:PHE:HE2	1:B:4023:MET:HA	0.67	0.82
1:C:4150:LEU:HD12	1:C:4150:LEU:O	1.79	0.82
1:C:4575:PHE:CD1	1:C:4576:ILE:CD1	2.58	0.82
1:C:4966:ASP:O	1:C:4967:TYR:C	2.16	0.82
1:C:685:GLY:HA3	1:C:713:SER:CA	2.07	0.82
1:D:4784:PHE:O	1:D:4789:PHE:HE2	1.63	0.82
1:A:1272:LEU:N	1:A:1273:ALA:HB3	1.95	0.82
1:A:2536:LEU:O	1:A:2541:PHE:N	2.12	0.82
1:B:378:LEU:CB	1:B:379:HIS:HA	2.10	0.82
1:B:4729:GLY:HA2	1:B:4732:PHE:CB	2.10	0.82
1:C:237:ASP:O	1:C:239:ASP:N	2.13	0.82
1:C:378:LEU:CB	1:C:379:HIS:HA	2.10	0.82
1:C:4738:ALA:O	1:C:4742:GLY:HA3	1.78	0.82
1:C:5003:HIS:O	1:C:5008:SER:N	2.10	0.82
1:D:378:LEU:CB	1:D:379:HIS:HA	2.10	0.82
1:A:4944:ARG:NH2	1:D:4942:GLU:CB	2.42	0.82
1:A:271:GLY:O	1:A:272:SER:CB	2.27	0.82

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4181:ILE:HD11	1:A:4194:TYR:HA	1.60	0.82
1:A:4976:GLU:O	1:A:4979:THR:OG1	1.98	0.82
1:B:1239:SER:O	1:B:1608:MET:CA	2.27	0.82
1:B:4235:VAL:CB	1:B:5019:TRP:CZ3	2.61	0.82
1:C:4668:LEU:HD12	1:C:4668:LEU:O	1.80	0.82
1:C:77:ALA:HB2	1:D:3935:TRP:NE1	1.95	0.82
1:D:1086:GLY:O	1:D:1155:LEU:N	2.08	0.82
1:D:1126:GLY:O	1:D:1143:TRP:N	2.12	0.82
1:D:271:GLY:O	1:D:272:SER:CB	2.27	0.82
1:D:4125:PHE:HD1	1:D:4126:GLU:N	1.78	0.82
1:A:237:ASP:O	1:A:239:ASP:N	2.13	0.81
1:A:378:LEU:CB	1:A:379:HIS:HA	2.10	0.81
1:C:1150:GLY:N	1:C:1163:THR:O	2.12	0.81
1:C:3962:PHE:HE2	1:C:4023:MET:HA	0.67	0.81
1:D:3061:ALA:O	1:D:3064:VAL:N	2.13	0.81
1:D:4183:ILE:CG2	1:D:4190:ILE:HG12	2.09	0.81
1:A:4784:PHE:O	1:A:4789:PHE:HE2	1.63	0.81
1:B:2278:ALA:O	1:B:2280:VAL:N	2.13	0.81
1:B:237:ASP:O	1:B:239:ASP:N	2.13	0.81
1:B:17:ASP:N	1:B:69:LEU:O	2.12	0.81
1:C:1126:GLY:O	1:C:1143:TRP:N	2.12	0.81
1:C:1290:ARG:H	1:C:1551:ALA:HB1	1.43	0.81
1:C:3823:LYS:C	1:C:3825:GLU:H	1.81	0.81
1:D:237:ASP:O	1:D:239:ASP:N	2.13	0.81
1:D:4132:PHE:O	1:D:4135:PRO:HD2	1.80	0.81
1:A:1290:ARG:H	1:A:1551:ALA:HB1	1.43	0.81
1:A:4729:GLY:HA2	1:A:4732:PHE:CB	2.10	0.81
1:B:1290:ARG:H	1:B:1551:ALA:HB1	1.43	0.81
1:B:4180:ARG:H	1:B:4181:ILE:HD13	1.43	0.81
1:B:784:SER:O	1:B:785:ALA:CB	2.25	0.81
1:C:1272:LEU:N	1:C:1273:ALA:HB3	1.95	0.81
1:C:17:ASP:N	1:C:69:LEU:O	2.12	0.81
1:D:1095:VAL:N	1:D:1200:GLY:HA2	1.96	0.81
1:D:4976:GLU:O	1:D:4979:THR:OG1	1.98	0.81
1:A:4656:LEU:HD22	1:A:4656:LEU:O	1.78	0.81
1:A:4928:LEU:HA	1:A:4931:ILE:HD11	1.61	0.81
1:B:1124:PHE:CB	1:B:1130:GLN:C	2.43	0.81
1:B:3061:ALA:O	1:B:3064:VAL:N	2.13	0.81
1:B:422:SER:H	1:B:423:GLY:HA2	1.44	0.81
1:B:460:GLN:C	1:B:462:GLU:N	2.34	0.81
1:C:4104:THR:O	1:C:4108:ILE:CG2	2.27	0.81

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4968:PHE:CD2	1:C:4978:HIS:CB	2.62	0.81
1:D:4575:PHE:CD1	1:D:4576:ILE:CD1	2.58	0.81
1:D:4968:PHE:CD2	1:D:4978:HIS:CB	2.62	0.81
1:D:682:LEU:HA	1:D:782:SER:O	1.79	0.81
1:A:1095:VAL:N	1:A:1200:GLY:HA2	1.96	0.81
1:A:4668:LEU:HD12	1:A:4668:LEU:O	1.80	0.81
1:B:2884:ASN:O	1:B:2888:ARG:N	2.14	0.81
1:A:4930:ALA:CB	1:B:4936:ILE:CD1	2.59	0.81
1:B:788:LYS:HA	1:B:1629:GLN:CA	2.08	0.81
1:C:4141:PHE:CZ	1:C:4196:GLU:CA	2.64	0.81
1:C:4141:PHE:CE1	1:C:4196:GLU:CB	2.64	0.81
1:D:3823:LYS:C	1:D:3825:GLU:H	1.81	0.81
1:A:4968:PHE:CD2	1:A:4978:HIS:CB	2.62	0.81
1:B:292:ALA:C	1:B:311:ALA:HB3	1.99	0.81
1:C:1095:VAL:N	1:C:1200:GLY:HA2	1.96	0.81
1:C:4125:PHE:HD1	1:C:4126:GLU:N	1.78	0.81
1:C:460:GLN:C	1:C:462:GLU:N	2.34	0.81
1:C:4729:GLY:HA2	1:C:4732:PHE:CB	2.10	0.81
1:C:4857:ASN:O	1:C:4858:PHE:CD1	2.34	0.81
1:C:784:SER:O	1:C:785:ALA:CB	2.25	0.81
1:D:4668:LEU:O	1:D:4668:LEU:HD12	1.80	0.81
1:A:181:HIS:CB	1:A:182:LEU:HA	2.11	0.81
1:A:292:ALA:C	1:A:311:ALA:HB3	1.99	0.81
1:A:4150:LEU:HD12	1:A:4150:LEU:O	1.79	0.81
1:A:4803:HIS:O	1:A:4805:ASN:N	2.14	0.81
1:B:1095:VAL:N	1:B:1200:GLY:HA2	1.96	0.81
1:B:4668:LEU:HD12	1:B:4668:LEU:O	1.80	0.81
1:C:1203:ASN:CA	1:C:1204:LEU:CB	2.58	0.81
1:C:4180:ARG:H	1:C:4181:ILE:HD13	1.43	0.81
1:C:4183:ILE:CG2	1:C:4190:ILE:HG12	2.09	0.81
1:D:1203:ASN:CA	1:D:1204:LEU:CB	2.58	0.81
1:D:359:TYR:CB	1:D:376:ALA:HB2	2.11	0.81
1:D:505:GLU:CB	1:D:509:GLU:HA	2.10	0.81
1:A:4982:GLU:CB	1:A:4983:HIS:HB2	2.11	0.81
1:B:1081:TYR:O	1:B:1082:THR:O	1.99	0.81
1:B:4696:ASP:CB	1:B:4697:VAL:HG21	2.06	0.81
1:C:2278:ALA:O	1:C:2280:VAL:N	2.13	0.81
1:C:4195:PHE:CE2	1:C:4991:PHE:CG	2.57	0.81
1:A:3061:ALA:O	1:A:3064:VAL:N	2.13	0.81
1:A:359:TYR:CB	1:A:376:ALA:HB2	2.11	0.81
1:A:3823:LYS:C	1:A:3825:GLU:H	1.81	0.81

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:788:LYS:HA	1:A:1629:GLN:CA	2.08	0.81
1:B:4982:GLU:CB	1:B:4983:HIS:HB2	2.11	0.81
1:C:3061:ALA:O	1:C:3064:VAL:N	2.13	0.81
1:D:2278:ALA:O	1:D:2280:VAL:N	2.13	0.81
1:D:422:SER:H	1:D:423:GLY:HA2	1.44	0.81
1:D:4982:GLU:CB	1:D:4983:HIS:HB2	2.11	0.81
1:A:1150:GLY:N	1:A:1163:THR:O	2.12	0.81
1:A:1203:ASN:CA	1:A:1204:LEU:CB	2.58	0.81
1:B:4132:PHE:O	1:B:4135:PRO:HD2	1.80	0.81
1:B:4923:PHE:O	1:B:4927:ILE:HG23	1.81	0.81
1:B:5016:GLU:CB	1:B:5017:ARG:O	2.29	0.81
1:B:77:ALA:HB2	1:C:3935:TRP:NE1	1.95	0.81
1:C:4181:ILE:HD11	1:C:4194:TYR:HA	1.60	0.81
1:C:4803:HIS:O	1:C:4805:ASN:N	2.14	0.81
1:C:4976:GLU:O	1:C:4979:THR:OG1	1.98	0.81
1:D:4642:ALA:HA	1:D:4645:CYS:SG	2.21	0.81
1:D:4729:GLY:HA2	1:D:4732:PHE:CB	2.10	0.81
1:D:613:ALA:O	1:D:2169:GLN:HA	1.81	0.81
1:B:681:HIS:CB	1:B:784:SER:CB	2.59	0.81
1:C:4929:LEU:O	1:C:4932:ILE:HG22	1.81	0.81
1:C:505:GLU:CB	1:C:509:GLU:HA	2.10	0.81
1:D:4141:PHE:CZ	1:D:4196:GLU:CA	2.64	0.81
1:D:4195:PHE:CE2	1:D:4991:PHE:HD2	1.99	0.81
1:D:4833:ASN:HD21	1:D:4939:ALA:HB2	1.46	0.81
1:A:3935:TRP:NE1	1:D:77:ALA:HB2	1.95	0.81
1:C:1715:LEU:O	1:C:1719:HIS:N	2.14	0.80
1:C:4687:TYR:CA	1:C:4691:GLN:CA	2.52	0.80
1:B:4642:ALA:HA	1:B:4645:CYS:SG	2.21	0.80
1:C:4982:GLU:CB	1:C:4983:HIS:HB2	2.11	0.80
1:D:681:HIS:CB	1:D:784:SER:CB	2.59	0.80
1:A:4104:THR:CB	1:A:4107:GLU:CB	2.59	0.80
1:A:4701:TRP:HH2	1:A:4781:GLY:HA2	1.42	0.80
1:B:1083:VAL:O	1:B:1187:GLY:HA2	1.81	0.80
1:B:1203:ASN:CA	1:B:1204:LEU:CB	2.58	0.80
1:B:4968:PHE:HB3	1:B:4975:PHE:CA	2.10	0.80
1:C:4575:PHE:CE1	1:C:4576:ILE:HD11	1.91	0.80
1:C:4837:LEU:HD23	1:C:4838:VAL:N	1.97	0.80
1:C:5016:GLU:CB	1:C:5017:ARG:O	2.29	0.80
1:D:3942:VAL:CB	1:D:3943:ILE:HA	2.11	0.80
1:D:4978:HIS:CE1	1:D:4983:HIS:CE1	2.70	0.80
1:D:5016:GLU:CB	1:D:5017:ARG:O	2.29	0.80

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1715:LEU:O	1:B:1719:HIS:N	2.14	0.80
1:B:181:HIS:CB	1:B:182:LEU:HA	2.11	0.80
1:B:4141:PHE:CZ	1:B:4196:GLU:CA	2.64	0.80
1:B:4784:PHE:O	1:B:4789:PHE:HE2	1.63	0.80
1:B:4968:PHE:CD2	1:B:4978:HIS:CB	2.62	0.80
1:B:4976:GLU:O	1:B:4979:THR:OG1	1.98	0.80
1:C:1083:VAL:O	1:C:1187:GLY:HA2	1.81	0.80
1:C:2884:ASN:O	1:C:2888:ARG:N	2.14	0.80
1:C:3942:VAL:CB	1:C:3943:ILE:HA	2.11	0.80
1:D:4857:ASN:O	1:D:4858:PHE:CD1	2.34	0.80
1:A:20:VAL:H	1:A:67:PHE:CB	1.94	0.80
1:A:4183:ILE:HG22	1:A:4191:GLU:O	1.81	0.80
1:A:4923:PHE:O	1:A:4927:ILE:HG23	1.81	0.80
1:B:4150:LEU:O	1:B:4150:LEU:HD12	1.79	0.80
1:B:4181:ILE:HG22	1:B:4182:GLU:H	1.47	0.80
1:B:4183:ILE:HG22	1:B:4191:GLU:O	1.81	0.80
1:B:4803:HIS:O	1:B:4805:ASN:N	2.14	0.80
1:B:4857:ASN:O	1:B:4858:PHE:CD1	2.34	0.80
1:B:505:GLU:CB	1:B:509:GLU:HA	2.10	0.80
1:C:4104:THR:CB	1:C:4107:GLU:CB	2.59	0.80
1:C:4132:PHE:O	1:C:4135:PRO:HD2	1.80	0.80
1:D:1272:LEU:N	1:D:1273:ALA:HB3	1.95	0.80
1:D:4195:PHE:HE2	1:D:4991:PHE:CA	1.88	0.80
1:D:4837:LEU:HD23	1:D:4838:VAL:N	1.97	0.80
1:D:4929:LEU:O	1:D:4932:ILE:HG22	1.81	0.80
1:A:2884:ASN:O	1:A:2888:ARG:N	2.14	0.80
1:A:4104:THR:O	1:A:4108:ILE:CG2	2.27	0.80
1:A:4183:ILE:CG2	1:A:4190:ILE:O	2.30	0.80
1:A:4141:PHE:CZ	1:A:4196:GLU:CA	2.64	0.80
1:A:4235:VAL:HG11	1:A:5019:TRP:HH2	1.00	0.80
1:B:271:GLY:O	1:B:272:SER:CB	2.27	0.80
1:C:181:HIS:CB	1:C:182:LEU:HA	2.11	0.80
1:C:4784:PHE:O	1:C:4789:PHE:HE2	1.63	0.80
1:D:1246:GLU:O	1:D:1602:PRO:N	2.15	0.80
1:D:3935:TRP:CE3	1:D:3935:TRP:HA	2.17	0.80
1:D:4803:HIS:O	1:D:4805:ASN:N	2.14	0.80
1:D:4923:PHE:O	1:D:4927:ILE:HG23	1.81	0.80
1:A:4642:ALA:HA	1:A:4645:CYS:SG	2.21	0.80
1:A:505:GLU:CB	1:A:509:GLU:HA	2.10	0.80
1:D:1081:TYR:O	1:D:1082:THR:O	1.99	0.80
1:D:1083:VAL:O	1:D:1187:GLY:HA2	1.81	0.80

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1081:TYR:O	1:A:1082:THR:O	1.99	0.80
1:A:1161:ILE:CA	1:A:1178:ALA:CB	2.57	0.80
1:A:2172:PRO:O	1:A:2173:GLN:CB	2.29	0.80
1:A:4857:ASN:O	1:A:4858:PHE:CD1	2.34	0.80
1:A:5016:GLU:CB	1:A:5017:ARG:O	2.29	0.80
1:B:4183:ILE:CG2	1:B:4190:ILE:O	2.30	0.80
1:B:4575:PHE:CE1	1:B:4576:ILE:HD11	1.91	0.80
1:C:4968:PHE:HB3	1:C:4975:PHE:CA	2.10	0.80
1:A:3942:VAL:CB	1:A:3943:ILE:HA	2.11	0.80
1:A:4978:HIS:CE1	1:A:4983:HIS:CE1	2.70	0.80
1:A:681:HIS:CB	1:A:784:SER:CB	2.59	0.80
1:B:284:HIS:O	1:B:288:GLY:HA3	1.82	0.80
1:B:4978:HIS:CE1	1:B:4983:HIS:CE1	2.70	0.80
1:C:1161:ILE:CA	1:C:1178:ALA:CB	2.57	0.80
1:C:1252:HIS:CB	1:C:1255:TYR:HA	2.12	0.80
1:C:4701:TRP:HH2	1:C:4781:GLY:HA2	1.42	0.80
1:A:1246:GLU:O	1:A:1602:PRO:N	2.15	0.80
1:B:1246:GLU:O	1:B:1602:PRO:N	2.15	0.80
1:B:4837:LEU:HD23	1:B:4838:VAL:N	1.97	0.80
1:C:4183:ILE:CG2	1:C:4190:ILE:O	2.30	0.80
1:C:4934:GLY:HA2	1:D:4937:ILE:CD1	2.04	0.80
1:C:788:LYS:HA	1:C:1629:GLN:CA	2.08	0.80
1:D:4180:ARG:HA	1:D:4181:ILE:HG12	1.64	0.80
1:D:4575:PHE:CE1	1:D:4576:ILE:HD11	1.91	0.80
1:C:1246:GLU:O	1:C:1602:PRO:N	2.15	0.79
1:C:4978:HIS:CE1	1:C:4983:HIS:CE1	2.70	0.79
1:C:681:HIS:CB	1:C:784:SER:CB	2.59	0.79
1:D:2172:PRO:O	1:D:2173:GLN:CB	2.29	0.79
1:D:2884:ASN:O	1:D:2888:ARG:N	2.14	0.79
1:D:4181:ILE:HG22	1:D:4182:GLU:H	1.47	0.79
1:D:788:LYS:HA	1:D:1629:GLN:CA	2.08	0.79
1:A:1252:HIS:CB	1:A:1255:TYR:HA	2.12	0.79
1:A:4837:LEU:HD23	1:A:4838:VAL:N	1.97	0.79
1:B:302:VAL:C	1:B:307:ALA:HB2	2.03	0.79
1:B:4104:THR:CB	1:B:4107:GLU:CB	2.59	0.79
1:B:4687:TYR:CA	1:B:4691:GLN:CA	2.52	0.79
1:C:4180:ARG:HA	1:C:4181:ILE:HG12	1.64	0.79
1:C:4935:LEU:CD2	1:D:4940:PHE:HE2	1.95	0.79
1:D:1252:HIS:CB	1:D:1255:TYR:HA	2.12	0.79
1:D:4104:THR:CB	1:D:4107:GLU:CB	2.59	0.79
1:A:1096:THR:CB	1:A:1199:VAL:O	2.31	0.79

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:613:ALA:O	1:A:2169:GLN:HA	1.81	0.79
1:A:3758:MET:O	1:A:3761:GLN:N	2.16	0.79
1:A:4929:LEU:O	1:A:4932:ILE:HG22	1.81	0.79
1:A:77:ALA:HB2	1:B:3935:TRP:NE1	1.95	0.79
1:B:4845:ALA:O	1:B:4848:VAL:HG12	1.82	0.79
1:B:613:ALA:O	1:B:2169:GLN:HA	1.81	0.79
1:C:4181:ILE:HG22	1:C:4182:GLU:H	1.47	0.79
1:C:4729:GLY:HA2	1:C:4732:PHE:CA	2.13	0.79
1:D:1096:THR:CB	1:D:1199:VAL:O	2.31	0.79
1:D:1290:ARG:H	1:D:1551:ALA:HB1	1.43	0.79
1:D:1715:LEU:O	1:D:1719:HIS:N	2.14	0.79
1:D:344:SER:CB	1:D:345:LEU:CA	2.53	0.79
1:B:359:TYR:CB	1:B:376:ALA:HB2	2.11	0.79
1:B:3942:VAL:CB	1:B:3943:ILE:HA	2.11	0.79
1:B:4181:ILE:HG22	1:B:4182:GLU:N	1.98	0.79
1:C:20:VAL:H	1:C:67:PHE:CB	1.94	0.79
1:C:284:HIS:O	1:C:288:GLY:HA3	1.82	0.79
1:C:359:TYR:CB	1:C:376:ALA:HB2	2.11	0.79
1:D:1276:THR:CB	1:D:1563:GLN:HA	2.12	0.79
1:D:1638:ALA:HB1	1:D:1649:ASP:H	1.47	0.79
1:D:284:HIS:O	1:D:288:GLY:HA3	1.82	0.79
1:C:4930:ALA:CB	1:D:4936:ILE:CD1	2.59	0.79
1:A:4845:ALA:O	1:A:4848:VAL:HG12	1.83	0.79
1:B:2464:ASP:H	1:B:2467:VAL:H	1.31	0.79
1:B:220:LEU:CB	1:B:391:THR:CB	2.60	0.79
1:B:4180:ARG:HA	1:B:4181:ILE:HG12	1.64	0.79
1:C:344:SER:CB	1:C:345:LEU:CA	2.53	0.79
1:C:4978:HIS:O	1:C:4982:GLU:CA	2.31	0.79
1:C:4197:ILE:HD11	1:C:4990:PHE:CE2	2.18	0.79
1:D:4183:ILE:CG2	1:D:4190:ILE:O	2.30	0.79
1:D:4978:HIS:O	1:D:4982:GLU:CA	2.31	0.79
1:D:608:VAL:HA	1:D:613:ALA:CA	2.13	0.79
1:A:1083:VAL:O	1:A:1187:GLY:HA2	1.81	0.79
1:A:1638:ALA:HB1	1:A:1649:ASP:H	1.47	0.79
1:A:4180:ARG:HA	1:A:4181:ILE:HG12	1.64	0.79
1:A:4141:PHE:CE1	1:A:4196:GLU:CB	2.64	0.79
1:A:4677:LEU:HD23	1:A:4711:PHE:HZ	0.73	0.79
1:B:67:PHE:O	1:B:110:ARG:N	2.16	0.79
1:C:422:SER:H	1:C:423:GLY:HA2	1.44	0.79
1:C:608:VAL:HA	1:C:613:ALA:CA	2.13	0.79
1:D:220:LEU:CB	1:D:391:THR:CB	2.60	0.79

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:4089:SER:HA	1:D:4121:GLU:O	1.83	0.79
1:D:4829:SER:CB	1:D:4940:PHE:CE1	2.66	0.79
1:A:2464:ASP:H	1:A:2467:VAL:H	1.31	0.79
1:B:2212:VAL:O	1:B:2216:GLY:N	2.15	0.79
1:B:4104:THR:O	1:B:4108:ILE:CG2	2.27	0.79
1:C:1081:TYR:O	1:C:1082:THR:O	1.99	0.79
1:C:3758:MET:O	1:C:3761:GLN:N	2.16	0.79
1:C:4181:ILE:HG22	1:C:4182:GLU:N	1.98	0.79
1:C:4642:ALA:HA	1:C:4645:CYS:SG	2.21	0.79
1:C:685:GLY:HA3	1:C:712:TYR:O	1.83	0.79
1:D:20:VAL:H	1:D:67:PHE:CB	1.94	0.79
1:D:302:VAL:C	1:D:307:ALA:HB2	2.03	0.79
1:D:4243:PHE:HD2	1:D:4671:PHE:CE1	2.01	0.79
1:D:4729:GLY:HA2	1:D:4732:PHE:CA	2.13	0.79
1:A:220:LEU:CB	1:A:391:THR:CB	2.60	0.79
1:B:4089:SER:HA	1:B:4121:GLU:O	1.83	0.79
1:B:4205:TRP:O	1:B:4210:VAL:CB	2.31	0.79
1:C:302:VAL:C	1:C:307:ALA:HB2	2.03	0.79
1:C:4089:SER:HA	1:C:4121:GLU:O	1.83	0.79
1:C:4183:ILE:HG22	1:C:4191:GLU:O	1.81	0.79
1:D:4197:ILE:HD11	1:D:4990:PHE:CE2	2.18	0.79
1:A:1276:THR:CB	1:A:1563:GLN:HA	2.12	0.79
1:A:302:VAL:C	1:A:307:ALA:HB2	2.03	0.79
1:A:4181:ILE:HG22	1:A:4182:GLU:H	1.46	0.79
1:B:20:VAL:H	1:B:67:PHE:CB	1.94	0.79
1:B:4978:HIS:O	1:B:4982:GLU:CA	2.31	0.79
1:C:67:PHE:O	1:C:110:ARG:N	2.16	0.79
1:D:4795:TYR:CE1	1:D:4816:ILE:CB	2.66	0.79
1:A:273:HIS:CB	1:A:337:PRO:CB	2.61	0.79
1:A:4089:SER:HA	1:A:4121:GLU:O	1.83	0.79
1:A:4795:TYR:CE1	1:A:4816:ILE:CB	2.66	0.79
1:B:1252:HIS:CB	1:B:1255:TYR:HA	2.12	0.79
1:B:3935:TRP:HA	1:B:3935:TRP:CE3	2.17	0.79
1:C:613:ALA:O	1:C:2169:GLN:HA	1.81	0.79
1:C:220:LEU:CB	1:C:391:THR:CB	2.60	0.79
1:C:422:SER:N	1:C:423:GLY:HA2	1.94	0.79
1:D:67:PHE:O	1:D:110:ARG:N	2.16	0.79
1:A:460:GLN:C	1:A:462:GLU:N	2.34	0.78
1:B:1638:ALA:HB1	1:B:1649:ASP:H	1.47	0.78
1:B:4729:GLY:HA2	1:B:4732:PHE:CA	2.13	0.78
1:B:608:VAL:HA	1:B:613:ALA:CA	2.13	0.78

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4243:PHE:HD2	1:C:4671:PHE:CE1	2.01	0.78
1:C:4718:LYS:H	1:C:4720:VAL:HG12	1.48	0.78
1:C:4954:MET:HE3	1:C:4955:GLU:N	1.97	0.78
1:A:4729:GLY:HA2	1:A:4732:PHE:CA	2.13	0.78
1:A:4768:LEU:HD13	1:A:4769:MET:N	1.99	0.78
1:A:608:VAL:HA	1:A:613:ALA:CA	2.13	0.78
1:A:645:ARG:CB	1:A:779:PRO:O	2.32	0.78
1:B:685:GLY:HA3	1:B:712:TYR:O	1.83	0.78
1:C:1288:PHE:CA	1:C:1553:PHE:CB	2.61	0.78
1:C:3935:TRP:CE3	1:C:3935:TRP:HA	2.17	0.78
1:C:4923:PHE:O	1:C:4927:ILE:HG23	1.81	0.78
1:D:181:HIS:CB	1:D:182:LEU:HA	2.11	0.78
1:D:4205:TRP:O	1:D:4210:VAL:CB	2.31	0.78
1:A:4944:ARG:HH22	1:D:4942:GLU:CB	1.96	0.78
1:A:4968:PHE:HB3	1:A:4975:PHE:CA	2.10	0.78
1:B:1276:THR:CB	1:B:1563:GLN:HA	2.12	0.78
1:B:3758:MET:O	1:B:3761:GLN:N	2.16	0.78
1:C:1276:THR:CB	1:C:1563:GLN:HA	2.12	0.78
1:C:4795:TYR:CE1	1:C:4816:ILE:CB	2.66	0.78
1:D:3934:TYR:HE1	1:D:3935:TRP:HZ3	1.32	0.78
1:D:4181:ILE:HG22	1:D:4182:GLU:N	1.98	0.78
1:D:4768:LEU:HD13	1:D:4769:MET:N	1.99	0.78
1:D:685:GLY:HA3	1:D:712:TYR:O	1.83	0.78
1:D:645:ARG:CB	1:D:779:PRO:O	2.32	0.78
1:A:1288:PHE:CA	1:A:1553:PHE:CB	2.61	0.78
1:A:284:HIS:O	1:A:288:GLY:HA3	1.82	0.78
1:B:4197:ILE:HD11	1:B:4990:PHE:CE2	2.18	0.78
1:B:4195:PHE:CE2	1:B:4991:PHE:HD2	1.99	0.78
1:C:1096:THR:CB	1:C:1199:VAL:O	2.31	0.78
1:C:2464:ASP:H	1:C:2467:VAL:H	1.31	0.78
1:D:2464:ASP:H	1:D:2467:VAL:H	1.31	0.78
1:B:3962:PHE:CE2	1:B:4023:MET:CA	2.30	0.78
1:B:645:ARG:CB	1:B:779:PRO:O	2.32	0.78
1:B:918:ARG:CA	1:B:921:ASN:H	1.89	0.78
1:C:790:ARG:HA	1:C:1627:ALA:HA	0.78	0.78
1:C:2212:VAL:O	1:C:2216:GLY:N	2.16	0.78
1:D:4235:VAL:HA	1:D:4238:CYS:SG	2.23	0.78
1:D:4829:SER:CB	1:D:4940:PHE:HE1	1.96	0.78
1:A:2273:LEU:O	1:A:2276:ALA:HB3	1.84	0.78
1:A:4141:PHE:HZ	1:A:4196:GLU:CA	1.96	0.78
1:A:4978:HIS:O	1:A:4982:GLU:CA	2.31	0.78

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:685:GLY:HA3	1:A:712:TYR:O	1.83	0.78
1:B:273:HIS:CB	1:B:337:PRO:CB	2.61	0.78
1:B:4795:TYR:CE1	1:B:4816:ILE:CB	2.66	0.78
1:D:3758:MET:O	1:D:3761:GLN:N	2.16	0.78
1:D:3962:PHE:CE2	1:D:4023:MET:CA	2.30	0.78
1:D:4141:PHE:HZ	1:D:4196:GLU:CA	1.96	0.78
1:D:4776:GLN:NE2	1:D:4776:GLN:HA	1.99	0.78
1:D:4845:ALA:O	1:D:4848:VAL:HG12	1.83	0.78
1:A:4181:ILE:HG22	1:A:4182:GLU:N	1.98	0.78
1:B:4929:LEU:O	1:B:4932:ILE:HG22	1.81	0.78
1:B:790:ARG:HA	1:B:1627:ALA:HA	0.78	0.78
1:C:3934:TYR:HE1	1:C:3935:TRP:HZ3	1.32	0.78
1:C:4795:TYR:CD1	1:C:4816:ILE:CB	2.67	0.78
1:C:4845:ALA:O	1:C:4848:VAL:HG12	1.83	0.78
1:C:4195:PHE:CE2	1:C:4991:PHE:HD2	1.99	0.78
1:D:1288:PHE:CA	1:D:1553:PHE:CB	2.61	0.78
1:D:4141:PHE:CE1	1:D:4196:GLU:CB	2.64	0.78
1:D:4795:TYR:CD1	1:D:4816:ILE:CB	2.67	0.78
1:A:1715:LEU:O	1:A:1719:HIS:N	2.14	0.78
1:B:1096:THR:CB	1:B:1199:VAL:O	2.31	0.78
1:B:219:VAL:CB	1:B:261:ARG:HA	2.14	0.78
1:B:4243:PHE:CD2	1:B:4671:PHE:CZ	2.51	0.78
1:C:839:LEU:O	1:C:1199:VAL:HA	1.84	0.78
1:C:3986:TRP:CA	1:C:3987:ASP:CB	2.62	0.78
1:C:4205:TRP:O	1:C:4210:VAL:CB	2.31	0.78
1:C:509:GLU:O	1:C:511:ALA:N	2.17	0.78
1:D:790:ARG:HA	1:D:1627:ALA:HA	0.78	0.78
1:A:219:VAL:CB	1:A:261:ARG:HA	2.14	0.78
1:A:509:GLU:O	1:A:511:ALA:N	2.17	0.78
1:B:1288:PHE:CA	1:B:1553:PHE:CB	2.61	0.78
1:B:4932:ILE:HG23	1:B:4933:GLN:OE1	1.84	0.78
1:C:273:HIS:CB	1:C:337:PRO:CB	2.61	0.78
1:D:509:GLU:O	1:D:511:ALA:N	2.17	0.78
1:A:4687:TYR:CA	1:A:4691:GLN:CA	2.52	0.78
1:B:1112:ASP:CB	1:B:1607:ARG:HA	2.14	0.78
1:B:4795:TYR:CD1	1:B:4816:ILE:CB	2.67	0.78
1:D:263:GLU:CB	1:D:281:ARG:O	2.32	0.78
1:D:4718:LYS:H	1:D:4720:VAL:HG12	1.48	0.78
1:A:1112:ASP:CB	1:A:1607:ARG:HA	2.14	0.77
1:A:263:GLU:CB	1:A:281:ARG:O	2.32	0.77
1:A:4235:VAL:HA	1:A:4238:CYS:SG	2.23	0.77

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4995:LEU:O	1:A:4995:LEU:HD13	1.84	0.77
1:B:4677:LEU:HD23	1:B:4711:PHE:HZ	0.73	0.77
1:B:4768:LEU:HD13	1:B:4769:MET:N	1.99	0.77
1:C:4235:VAL:HA	1:C:4238:CYS:SG	2.23	0.77
1:C:4768:LEU:HD13	1:C:4769:MET:N	1.99	0.77
1:D:5014:TYR:O	1:D:5017:ARG:HA	1.84	0.77
1:A:990:GLU:CB	1:A:1024:TYR:CB	2.63	0.77
1:A:1273:ALA:HB1	1:A:1274:HIS:CA	2.13	0.77
1:A:3986:TRP:CA	1:A:3987:ASP:CB	2.62	0.77
1:A:612:VAL:CB	1:A:2169:GLN:H	1.97	0.77
1:B:1708:ARG:HH11	1:B:1837:GLN:HA	1.41	0.77
1:B:263:GLU:CB	1:B:281:ARG:O	2.32	0.77
1:B:3934:TYR:HE1	1:B:3935:TRP:HZ3	1.32	0.77
1:C:1112:ASP:CB	1:C:1607:ARG:HA	2.14	0.77
1:C:1638:ALA:HB1	1:C:1649:ASP:H	1.47	0.77
1:C:2451:LEU:C	1:C:2454:ARG:HB3	2.05	0.77
1:C:219:VAL:CB	1:C:261:ARG:HA	2.14	0.77
1:C:721:LEU:CB	1:C:728:ARG:CB	2.63	0.77
1:D:1095:VAL:H	1:D:1200:GLY:CA	1.98	0.77
1:D:1161:ILE:CA	1:D:1178:ALA:CB	2.57	0.77
1:D:1272:LEU:CA	1:D:1273:ALA:HB3	2.14	0.77
1:D:608:VAL:HA	1:D:613:ALA:CB	2.14	0.77
1:A:1095:VAL:H	1:A:1200:GLY:CA	1.98	0.77
1:A:2212:VAL:O	1:A:2216:GLY:N	2.16	0.77
1:A:4205:TRP:O	1:A:4210:VAL:CB	2.31	0.77
1:A:501:ALA:HB1	1:A:505:GLU:N	1.99	0.77
1:A:608:VAL:HA	1:A:613:ALA:HB2	1.67	0.77
1:B:1272:LEU:CA	1:B:1273:ALA:HB3	2.14	0.77
1:B:608:VAL:HA	1:B:613:ALA:CB	2.14	0.77
1:C:4776:GLN:NE2	1:C:4776:GLN:HA	1.99	0.77
1:C:645:ARG:CB	1:C:779:PRO:O	2.32	0.77
1:D:839:LEU:O	1:D:1199:VAL:HA	1.84	0.77
1:D:2451:LEU:C	1:D:2454:ARG:HB3	2.05	0.77
1:D:4795:TYR:OH	1:D:4813:LEU:CA	2.33	0.77
1:A:839:LEU:O	1:A:1199:VAL:HA	1.84	0.77
1:A:1272:LEU:CA	1:A:1273:ALA:HB3	2.14	0.77
1:A:3934:TYR:HE1	1:A:3935:TRP:HZ3	1.32	0.77
1:A:4207:MET:CB	1:A:4208:PRO:CD	2.62	0.77
1:B:839:LEU:O	1:B:1199:VAL:HA	1.84	0.77
1:C:1272:LEU:CA	1:C:1273:ALA:HB3	2.14	0.77
1:C:1436:SER:HA	1:C:1516:ILE:CB	2.14	0.77

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2172:PRO:O	1:C:2173:GLN:CB	2.29	0.77
1:D:4932:ILE:HG23	1:D:4933:GLN:OE1	1.84	0.77
1:A:3114:LYS:CA	1:A:3174:SER:CB	2.63	0.77
1:A:3935:TRP:CE3	1:A:3935:TRP:HA	2.17	0.77
1:A:4844:LEU:O	1:A:4847:VAL:HG12	1.85	0.77
1:A:790:ARG:HA	1:A:1627:ALA:HA	0.78	0.77
1:B:1717:SER:O	1:B:1720:LEU:CB	2.33	0.77
1:B:2273:LEU:O	1:B:2276:ALA:HB3	1.84	0.77
1:B:509:GLU:O	1:B:511:ALA:N	2.17	0.77
1:B:721:LEU:CB	1:B:728:ARG:CB	2.63	0.77
1:C:501:ALA:HB1	1:C:505:GLU:N	1.99	0.77
1:D:990:GLU:CB	1:D:1024:TYR:CB	2.63	0.77
1:D:1717:SER:O	1:D:1720:LEU:CB	2.33	0.77
1:D:273:HIS:CB	1:D:337:PRO:CB	2.61	0.77
1:A:2451:LEU:C	1:A:2454:ARG:HB3	2.05	0.77
1:A:608:VAL:HA	1:A:613:ALA:CB	2.14	0.77
1:B:2451:LEU:C	1:B:2454:ARG:HB3	2.05	0.77
1:B:4235:VAL:HA	1:B:4238:CYS:SG	2.23	0.77
1:B:4243:PHE:HD2	1:B:4671:PHE:CE1	2.01	0.77
1:C:1717:SER:O	1:C:1720:LEU:CB	2.33	0.77
1:C:4207:MET:CB	1:C:4208:PRO:CD	2.62	0.77
1:D:1112:ASP:CB	1:D:1607:ARG:HA	2.14	0.77
1:A:4932:ILE:HG23	1:A:4933:GLN:OE1	1.84	0.77
1:A:4833:ASN:HD21	1:A:4939:ALA:HB2	1.50	0.77
1:B:1436:SER:HA	1:B:1516:ILE:CB	2.14	0.77
1:B:4158:PRO:O	1:B:4161:ARG:N	2.18	0.77
1:B:4575:PHE:CD1	1:B:4576:ILE:CD1	2.58	0.77
1:A:4942:GLU:CB	1:B:4944:ARG:NH2	2.47	0.77
1:B:608:VAL:HA	1:B:613:ALA:HB2	1.67	0.77
1:C:4158:PRO:O	1:C:4161:ARG:N	2.18	0.77
1:C:4141:PHE:HZ	1:C:4196:GLU:CA	1.96	0.77
1:D:220:LEU:CB	1:D:392:ARG:H	1.98	0.77
1:D:4696:ASP:CB	1:D:4697:VAL:CB	2.63	0.77
1:A:1687:SER:HA	1:A:1688:HIS:CB	2.15	0.77
1:A:3962:PHE:CE2	1:A:4023:MET:CA	2.30	0.77
1:A:4696:ASP:CB	1:A:4697:VAL:CB	2.63	0.77
1:A:4795:TYR:CD1	1:A:4816:ILE:CB	2.67	0.77
1:B:612:VAL:CB	1:B:2169:GLN:H	1.97	0.77
1:B:4687:TYR:CA	1:B:4691:GLN:CB	2.53	0.77
1:B:4995:LEU:HD12	1:B:5011:TRP:CE3	2.19	0.77
1:B:501:ALA:HB1	1:B:505:GLU:N	1.99	0.77

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4932:ILE:HG23	1:C:4933:GLN:OE1	1.84	0.77
1:C:608:VAL:HA	1:C:613:ALA:CB	2.14	0.77
1:A:1717:SER:O	1:A:1720:LEU:CB	2.33	0.77
1:A:4243:PHE:CD2	1:A:4671:PHE:CZ	2.51	0.77
1:A:4911:LEU:O	1:A:4914:VAL:HG12	1.85	0.77
1:B:113:HIS:N	1:B:114:SER:HA	2.00	0.77
1:B:1687:SER:HA	1:B:1688:HIS:CB	2.15	0.77
1:B:4141:PHE:CE1	1:B:4196:GLU:CB	2.64	0.77
1:B:4696:ASP:CB	1:B:4697:VAL:CB	2.63	0.77
1:B:4718:LYS:H	1:B:4720:VAL:HG12	1.48	0.77
1:B:4844:LEU:O	1:B:4847:VAL:HG12	1.85	0.77
1:C:263:GLU:CB	1:C:281:ARG:O	2.32	0.77
1:C:242:ARG:O	1:C:300:VAL:CA	2.33	0.77
1:D:3986:TRP:CA	1:D:3987:ASP:CB	2.62	0.77
1:D:4183:ILE:HG22	1:D:4191:GLU:O	1.82	0.77
1:A:3986:TRP:HB3	1:A:3987:ASP:HA	1.66	0.77
1:A:4158:PRO:O	1:A:4161:ARG:N	2.18	0.77
1:A:4197:ILE:CD1	1:A:4990:PHE:CD2	2.68	0.77
1:A:4795:TYR:OH	1:A:4813:LEU:CA	2.33	0.77
1:B:3986:TRP:HB3	1:B:3987:ASP:HA	1.66	0.77
1:C:1687:SER:HA	1:C:1688:HIS:CB	2.15	0.77
1:C:346:CYS:O	1:C:387:ALA:CA	2.27	0.77
1:D:4158:PRO:O	1:D:4161:ARG:N	2.18	0.77
1:D:608:VAL:HA	1:D:613:ALA:HB2	1.67	0.77
1:B:242:ARG:O	1:B:300:VAL:CA	2.33	0.76
1:B:3721:LEU:O	1:B:3725:TYR:HD1	1.68	0.76
1:B:220:LEU:CB	1:B:392:ARG:H	1.98	0.76
1:B:4795:TYR:OH	1:B:4813:LEU:CA	2.33	0.76
1:C:4696:ASP:CB	1:C:4697:VAL:CB	2.63	0.76
1:C:4911:LEU:O	1:C:4915:VAL:HG23	1.85	0.76
1:C:4958:CYS:H	1:C:4964:GLY:HA3	1.50	0.76
1:D:2273:LEU:O	1:D:2276:ALA:HB3	1.84	0.76
1:D:219:VAL:CB	1:D:261:ARG:HA	2.14	0.76
1:D:3986:TRP:HB3	1:D:3987:ASP:HA	1.66	0.76
1:D:460:GLN:C	1:D:462:GLU:N	2.34	0.76
1:D:4958:CYS:H	1:D:4964:GLY:HA3	1.51	0.76
1:A:1933:GLU:O	1:A:1936:LYS:N	2.18	0.76
1:A:220:LEU:CB	1:A:392:ARG:H	1.98	0.76
1:B:3107:VAL:O	1:B:3111:ARG:N	2.18	0.76
1:B:3986:TRP:CA	1:B:3987:ASP:CB	2.62	0.76
1:B:5014:TYR:O	1:B:5017:ARG:HA	1.85	0.76

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4768:LEU:CD1	1:C:4770:SER:H	1.98	0.76
1:D:1687:SER:HA	1:D:1688:HIS:CB	2.15	0.76
1:D:4844:LEU:O	1:D:4847:VAL:HG12	1.85	0.76
1:A:4575:PHE:CD1	1:A:4576:ILE:CD1	2.58	0.76
1:A:721:LEU:CB	1:A:728:ARG:CB	2.63	0.76
1:B:4776:GLN:HA	1:B:4776:GLN:NE2	1.99	0.76
1:C:1638:ALA:CB	1:C:1649:ASP:H	1.99	0.76
1:C:4795:TYR:OH	1:C:4813:LEU:CA	2.33	0.76
1:A:1436:SER:HA	1:A:1516:ILE:CB	2.14	0.76
1:B:3114:LYS:CA	1:B:3174:SER:CB	2.63	0.76
1:B:4207:MET:CB	1:B:4208:PRO:CD	2.62	0.76
1:C:3721:LEU:O	1:C:3725:TYR:HD1	1.68	0.76
1:C:4985:LEU:N	1:C:4985:LEU:HD12	2.01	0.76
1:C:608:VAL:HA	1:C:613:ALA:HB2	1.67	0.76
1:C:721:LEU:CA	1:C:728:ARG:H	1.98	0.76
1:D:4768:LEU:CD1	1:D:4770:SER:H	1.98	0.76
1:A:1086:GLY:N	1:A:1155:LEU:CB	2.49	0.76
1:A:1254:HIS:CB	1:A:1281:ASN:CB	2.64	0.76
1:A:3107:VAL:O	1:A:3111:ARG:N	2.18	0.76
1:A:5014:TYR:O	1:A:5017:ARG:HA	1.85	0.76
1:B:1638:ALA:CB	1:B:1649:ASP:H	1.99	0.76
1:C:1086:GLY:N	1:C:1155:LEU:CB	2.49	0.76
1:C:2273:LEU:O	1:C:2276:ALA:HB3	1.84	0.76
1:C:3107:VAL:O	1:C:3111:ARG:N	2.18	0.76
1:D:1436:SER:HA	1:D:1516:ILE:CB	2.14	0.76
1:D:4911:LEU:O	1:D:4915:VAL:HG23	1.85	0.76
1:D:4995:LEU:HD12	1:D:5011:TRP:CE3	2.19	0.76
1:D:501:ALA:HB1	1:D:505:GLU:N	1.99	0.76
1:A:1588:ALA:HB1	1:A:1589:PRO:CA	2.15	0.76
1:A:4182:GLU:OE2	1:A:4988:TYR:CB	2.33	0.76
1:A:608:VAL:HA	1:A:613:ALA:HA	1.68	0.76
1:C:4995:LEU:HD12	1:C:5011:TRP:CE3	2.19	0.76
1:C:990:GLU:CB	1:C:1024:TYR:CB	2.63	0.76
1:D:5031:GLN:HG3	1:D:5032:TYR:CE1	2.20	0.76
1:A:5031:GLN:HG3	1:A:5032:TYR:CE1	2.20	0.76
1:B:990:GLU:CB	1:B:1024:TYR:CB	2.63	0.76
1:B:1273:ALA:HB1	1:B:1274:HIS:CA	2.13	0.76
1:B:4911:LEU:O	1:B:4914:VAL:HG12	1.85	0.76
1:C:1588:ALA:HB1	1:C:1589:PRO:CA	2.15	0.76
1:C:1933:GLU:O	1:C:1936:LYS:N	2.18	0.76
1:C:4844:LEU:O	1:C:4847:VAL:HG12	1.85	0.76

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:242:ARG:O	1:D:300:VAL:CA	2.33	0.76
1:D:4207:MET:CB	1:D:4208:PRO:CD	2.62	0.76
1:A:1124:PHE:CB	1:A:1131:ARG:N	2.48	0.76
1:A:1638:ALA:CB	1:A:1649:ASP:H	1.99	0.76
1:B:1933:GLU:O	1:B:1936:LYS:N	2.18	0.76
1:B:4768:LEU:CD1	1:B:4770:SER:H	1.99	0.76
1:C:4644:TRP:CE3	1:C:4645:CYS:HA	2.21	0.76
1:C:5031:GLN:HG3	1:C:5032:TYR:CE1	2.20	0.76
1:C:608:VAL:HA	1:C:613:ALA:HA	1.68	0.76
1:D:1933:GLU:O	1:D:1936:LYS:N	2.18	0.76
1:D:2212:VAL:O	1:D:2216:GLY:N	2.16	0.76
1:D:4958:CYS:H	1:D:4964:GLY:CA	1.99	0.76
1:A:4644:TRP:CE3	1:A:4645:CYS:HA	2.21	0.76
1:B:2172:PRO:O	1:B:2173:GLN:CB	2.29	0.76
1:B:4685:GLY:H	1:B:4689:THR:CB	1.99	0.76
1:C:4968:PHE:CD2	1:C:4978:HIS:HB2	2.21	0.76
1:D:721:LEU:CB	1:D:728:ARG:CB	2.63	0.76
1:A:346:CYS:O	1:A:387:ALA:CA	2.27	0.76
1:A:4985:LEU:HD12	1:A:4985:LEU:N	2.01	0.76
1:B:4141:PHE:HZ	1:B:4196:GLU:CA	1.96	0.76
1:C:220:LEU:CB	1:C:392:ARG:H	1.98	0.76
1:C:4181:ILE:CG1	1:C:4194:TYR:HA	2.17	0.76
1:C:4958:CYS:H	1:C:4964:GLY:CA	1.99	0.76
1:D:1588:ALA:HB1	1:D:1589:PRO:CA	2.15	0.76
1:D:4911:LEU:O	1:D:4914:VAL:HG12	1.85	0.76
1:A:67:PHE:O	1:A:110:ARG:N	2.16	0.75
1:A:4718:LYS:H	1:A:4720:VAL:HG12	1.48	0.75
1:A:4911:LEU:O	1:A:4915:VAL:HG23	1.85	0.75
1:A:4968:PHE:CD2	1:A:4978:HIS:HB2	2.21	0.75
1:B:2505:PHE:O	1:B:2509:VAL:N	2.18	0.75
1:B:4931:ILE:O	1:B:4935:LEU:HG	1.86	0.75
1:C:113:HIS:N	1:C:114:SER:HA	2.00	0.75
1:C:4243:PHE:CD2	1:C:4671:PHE:CZ	2.51	0.75
1:D:1124:PHE:CB	1:D:1131:ARG:N	2.48	0.75
1:D:4181:ILE:CG1	1:D:4194:TYR:HA	2.17	0.75
1:A:242:ARG:O	1:A:300:VAL:CA	2.33	0.75
1:A:4156:HIS:CB	1:A:4157:ASP:HA	2.16	0.75
1:A:4783:ILE:O	1:A:4789:PHE:CE2	2.39	0.75
1:B:1436:SER:C	1:B:1516:ILE:CB	2.54	0.75
1:C:1287:LEU:CB	1:C:1553:PHE:C	2.55	0.75
1:C:5014:TYR:O	1:C:5017:ARG:HA	1.85	0.75

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1086:GLY:N	1:D:1155:LEU:CB	2.49	0.75
1:D:3107:VAL:O	1:D:3111:ARG:N	2.18	0.75
1:D:608:VAL:HA	1:D:613:ALA:HA	1.68	0.75
1:A:1287:LEU:CB	1:A:1553:PHE:C	2.55	0.75
1:A:4243:PHE:HD2	1:A:4671:PHE:CE1	2.01	0.75
1:A:4958:CYS:H	1:A:4964:GLY:CA	1.99	0.75
1:B:1086:GLY:N	1:B:1155:LEU:CB	2.49	0.75
1:B:4156:HIS:CB	1:B:4157:ASP:HA	2.16	0.75
1:B:4958:CYS:H	1:B:4964:GLY:CA	1.99	0.75
1:B:4985:LEU:HD12	1:B:4985:LEU:N	2.01	0.75
1:D:1273:ALA:HB1	1:D:1274:HIS:CA	2.13	0.75
1:D:1436:SER:C	1:D:1516:ILE:CB	2.54	0.75
1:D:4644:TRP:CE3	1:D:4645:CYS:HA	2.21	0.75
1:B:3896:ASN:O	1:B:3900:GLN:N	2.15	0.75
1:B:4144:ALA:O	1:B:4148:THR:OG1	2.05	0.75
1:C:1096:THR:CB	1:C:1198:GLN:HA	2.16	0.75
1:C:2342:ASN:HA	1:C:2344:GLU:O	1.87	0.75
1:C:4144:ALA:O	1:C:4148:THR:OG1	2.05	0.75
1:C:4934:GLY:HA3	1:D:4937:ILE:CD1	2.14	0.75
1:D:1254:HIS:CB	1:D:1281:ASN:CB	2.64	0.75
1:D:1638:ALA:CB	1:D:1649:ASP:H	1.99	0.75
1:D:2624:ARG:CB	1:D:2910:THR:CB	2.65	0.75
1:D:4156:HIS:CB	1:D:4157:ASP:HA	2.16	0.75
1:D:4985:LEU:HD12	1:D:4985:LEU:N	2.01	0.75
1:D:840:VAL:CB	1:D:1199:VAL:CA	2.65	0.75
1:A:27:THR:HA	1:A:32:GLN:CA	2.15	0.75
1:A:4768:LEU:CD1	1:A:4770:SER:H	1.98	0.75
1:B:4783:ILE:O	1:B:4789:PHE:CE2	2.39	0.75
1:B:4911:LEU:O	1:B:4915:VAL:HG23	1.85	0.75
1:C:3986:TRP:HB3	1:C:3987:ASP:HA	1.66	0.75
1:C:4783:ILE:O	1:C:4789:PHE:CE2	2.39	0.75
1:C:4911:LEU:O	1:C:4914:VAL:HG12	1.85	0.75
1:D:612:VAL:CB	1:D:2169:GLN:H	1.97	0.75
1:D:4144:ALA:O	1:D:4148:THR:OG1	2.05	0.75
1:A:4088:ILE:O	1:A:4092:ASP:CB	2.35	0.75
1:A:4144:ALA:O	1:A:4148:THR:OG1	2.05	0.75
1:A:4685:GLY:H	1:A:4689:THR:CB	1.99	0.75
1:B:4954:MET:HE3	1:B:4955:GLU:N	2.01	0.75
1:B:5031:GLN:HG3	1:B:5032:TYR:CE1	2.20	0.75
1:C:1254:HIS:CB	1:C:1281:ASN:CB	2.64	0.75
1:C:1244:GLN:O	1:C:1604:SER:O	2.05	0.75

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:113:HIS:N	1:D:114:SER:HA	2.00	0.75
1:D:4783:ILE:O	1:D:4789:PHE:CE2	2.39	0.75
1:A:3721:LEU:O	1:A:3725:TYR:HD1	1.68	0.75
1:A:4181:ILE:CG1	1:A:4194:TYR:HA	2.16	0.75
1:A:4958:CYS:H	1:A:4964:GLY:HA3	1.50	0.75
1:B:1254:HIS:CB	1:B:1281:ASN:CB	2.64	0.75
1:B:4644:TRP:CE3	1:B:4645:CYS:HA	2.21	0.75
1:B:608:VAL:HA	1:B:613:ALA:HA	1.68	0.75
1:C:612:VAL:CB	1:C:2169:GLN:H	1.97	0.75
1:D:4931:ILE:O	1:D:4935:LEU:HG	1.86	0.75
1:B:1244:GLN:O	1:B:1604:SER:O	2.05	0.75
1:C:4088:ILE:O	1:C:4092:ASP:CB	2.35	0.75
1:C:4156:HIS:CB	1:C:4157:ASP:HA	2.16	0.75
1:D:169:LEU:O	1:D:170:ILE:O	2.05	0.75
1:D:1708:ARG:HG2	1:D:1712:TYR:CE2	2.22	0.75
1:D:3721:LEU:O	1:D:3725:TYR:HD1	1.68	0.75
1:D:4685:GLY:H	1:D:4689:THR:CB	1.99	0.75
1:A:1436:SER:C	1:A:1516:ILE:CB	2.54	0.75
1:A:2624:ARG:CB	1:A:2910:THR:CB	2.65	0.75
1:B:1161:ILE:CA	1:B:1178:ALA:CB	2.57	0.75
1:B:4696:ASP:CA	1:B:4697:VAL:CB	2.65	0.75
1:C:1436:SER:C	1:C:1516:ILE:CB	2.54	0.75
1:D:1287:LEU:CB	1:D:1553:PHE:C	2.55	0.75
1:D:27:THR:HA	1:D:32:GLN:CA	2.15	0.75
1:D:544:LEU:HA	1:D:547:VAL:CB	2.17	0.75
1:A:1244:GLN:O	1:A:1604:SER:O	2.05	0.74
1:A:1688:HIS:CA	1:A:1689:VAL:CB	2.65	0.74
1:B:1588:ALA:HB1	1:B:1589:PRO:CA	2.15	0.74
1:B:169:LEU:O	1:B:170:ILE:O	2.05	0.74
1:B:169:LEU:O	1:B:170:ILE:C	2.26	0.74
1:B:4088:ILE:O	1:B:4092:ASP:CB	2.35	0.74
1:B:4705:VAL:CB	1:B:4778:TRP:CD1	2.70	0.74
1:B:4829:SER:CB	1:B:4940:PHE:CE1	2.69	0.74
1:C:1688:HIS:CA	1:C:1689:VAL:CB	2.65	0.74
1:C:2586:VAL:HA	1:C:2587:TYR:CB	2.16	0.74
1:D:2505:PHE:O	1:D:2509:VAL:N	2.18	0.74
1:D:4705:VAL:CB	1:D:4778:TRP:CD1	2.70	0.74
1:A:918:ARG:CA	1:A:921:ASN:H	1.89	0.74
1:B:721:LEU:CA	1:B:728:ARG:H	1.98	0.74
1:C:2624:ARG:CB	1:C:2910:THR:CB	2.65	0.74
1:C:544:LEU:HA	1:C:547:VAL:CB	2.17	0.74

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:169:LEU:O	1:A:170:ILE:O	2.05	0.74
1:B:1708:ARG:HG2	1:B:1712:TYR:CE2	2.22	0.74
1:B:4181:ILE:CG1	1:B:4194:TYR:HA	2.16	0.74
1:C:169:LEU:O	1:C:170:ILE:C	2.26	0.74
1:C:4705:VAL:CB	1:C:4778:TRP:CD1	2.70	0.74
1:C:783:PHE:CB	1:C:1630:CYS:SG	2.75	0.74
1:D:4088:ILE:O	1:D:4092:ASP:CB	2.35	0.74
1:A:2274:ASP:CA	1:A:2277:ALA:H	1.91	0.74
1:A:2586:VAL:HA	1:A:2587:TYR:CB	2.16	0.74
1:A:4696:ASP:CA	1:A:4697:VAL:CB	2.65	0.74
1:B:1287:LEU:CB	1:B:1553:PHE:C	2.55	0.74
1:C:1273:ALA:HB1	1:C:1274:HIS:CA	2.13	0.74
1:C:1588:ALA:CB	1:C:1589:PRO:HA	2.18	0.74
1:A:1124:PHE:CA	1:A:1130:GLN:O	2.36	0.74
1:A:838:HIS:O	1:A:839:LEU:CB	2.35	0.74
1:B:1745:ILE:O	1:B:1746:THR:CB	2.30	0.74
1:B:2624:ARG:CB	1:B:2910:THR:CB	2.65	0.74
1:B:4958:CYS:H	1:B:4964:GLY:HA3	1.50	0.74
1:B:72:SER:HA	1:B:106:ALA:C	2.08	0.74
1:C:169:LEU:O	1:C:170:ILE:O	2.05	0.74
1:C:3962:PHE:CE2	1:C:4023:MET:CA	2.30	0.74
1:C:4685:GLY:H	1:C:4689:THR:CB	1.99	0.74
1:D:2342:ASN:HA	1:D:2344:GLU:O	1.87	0.74
1:D:4958:CYS:N	1:D:4964:GLY:HA3	2.03	0.74
1:D:721:LEU:CA	1:D:728:ARG:H	1.98	0.74
1:A:169:LEU:O	1:A:170:ILE:C	2.26	0.74
1:A:72:SER:HA	1:A:106:ALA:C	2.08	0.74
1:A:783:PHE:CB	1:A:1630:CYS:SG	2.75	0.74
1:B:280:LEU:O	1:B:314:PHE:O	2.06	0.74
1:B:4195:PHE:HZ	1:B:4991:PHE:HB2	1.50	0.74
1:C:4696:ASP:CA	1:C:4697:VAL:CB	2.65	0.74
1:D:1688:HIS:CA	1:D:1689:VAL:CB	2.65	0.74
1:A:1096:THR:CB	1:A:1198:GLN:HA	2.16	0.74
1:A:840:VAL:CB	1:A:1199:VAL:CA	2.65	0.74
1:A:2505:PHE:O	1:A:2509:VAL:N	2.18	0.74
1:A:544:LEU:HA	1:A:547:VAL:CB	2.17	0.74
1:C:1122:TYR:HD1	1:C:1133:HIS:O	1.71	0.74
1:C:27:THR:HA	1:C:32:GLN:CA	2.15	0.74
1:C:3114:LYS:CA	1:C:3174:SER:CB	2.63	0.74
1:C:4958:CYS:N	1:C:4964:GLY:HA3	2.03	0.74
1:D:280:LEU:O	1:D:314:PHE:O	2.06	0.74

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:4664:LEU:HD22	1:D:4664:LEU:O	1.88	0.74
1:A:4705:VAL:CB	1:A:4778:TRP:CD1	2.70	0.74
1:B:544:LEU:HA	1:B:547:VAL:CB	2.17	0.74
1:B:838:HIS:O	1:B:839:LEU:CB	2.35	0.74
1:C:1124:PHE:CB	1:C:1131:ARG:N	2.48	0.74
1:C:840:VAL:CB	1:C:1199:VAL:CA	2.65	0.74
1:C:1708:ARG:HG2	1:C:1712:TYR:CE2	2.22	0.74
1:C:4235:VAL:HG22	1:C:5019:TRP:HZ3	1.52	0.74
1:D:1244:GLN:O	1:D:1604:SER:O	2.05	0.74
1:D:783:PHE:CB	1:D:1630:CYS:SG	2.75	0.74
1:D:149:THR:CB	1:D:172:VAL:O	2.36	0.74
1:D:838:HIS:O	1:D:839:LEU:CB	2.35	0.74
1:A:149:THR:CB	1:A:172:VAL:O	2.36	0.74
1:A:3896:ASN:O	1:A:3900:GLN:N	2.15	0.74
1:A:4945:ASP:O	1:A:4948:GLU:HG3	1.88	0.74
1:B:840:VAL:CB	1:B:1199:VAL:CA	2.65	0.74
1:B:1588:ALA:CB	1:B:1589:PRO:HA	2.18	0.74
1:B:1688:HIS:CA	1:B:1689:VAL:CB	2.65	0.74
1:B:4925:ILE:N	1:B:4925:ILE:HD12	2.03	0.74
1:B:4833:ASN:HD21	1:B:4939:ALA:HB2	1.50	0.74
1:C:1239:SER:O	1:C:1608:MET:HA	1.88	0.74
1:C:280:LEU:O	1:C:314:PHE:O	2.06	0.74
1:C:72:SER:HA	1:C:106:ALA:C	2.08	0.74
1:D:2125:HIS:HB2	1:D:3725:TYR:CZ	2.23	0.74
1:D:4800:LEU:HD23	1:D:4801:LEU:N	2.03	0.74
1:D:72:SER:HA	1:D:106:ALA:C	2.08	0.74
1:A:4776:GLN:HA	1:A:4776:GLN:NE2	1.99	0.74
1:C:1124:PHE:CA	1:C:1130:GLN:O	2.36	0.74
1:C:149:THR:CB	1:C:172:VAL:O	2.36	0.74
1:D:1096:THR:CB	1:D:1198:GLN:HA	2.16	0.74
1:A:119:SER:CB	1:A:146:CYS:CB	2.66	0.73
1:A:280:LEU:O	1:A:314:PHE:O	2.06	0.73
1:A:4800:LEU:HD23	1:A:4801:LEU:N	2.03	0.73
1:B:119:SER:CB	1:B:146:CYS:CB	2.66	0.73
1:B:1239:SER:O	1:B:1608:MET:HA	1.88	0.73
1:B:2342:ASN:HA	1:B:2344:GLU:O	1.87	0.73
1:B:2586:VAL:HA	1:B:2587:TYR:CB	2.16	0.73
1:B:4800:LEU:HD23	1:B:4801:LEU:N	2.03	0.73
1:C:4925:ILE:HD12	1:C:4925:ILE:N	2.03	0.73
1:C:789:VAL:O	1:C:1627:ALA:CA	2.36	0.73
1:D:4559:PHE:CE1	1:D:4560:TYR:HE1	2.00	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1708:ARG:CG	1:A:1712:TYR:HE2	2.01	0.73
1:A:4195:PHE:HE2	1:A:4991:PHE:CA	1.89	0.73
1:A:3757:GLU:CB	1:A:4719:PHE:HE2	2.01	0.73
1:B:1096:THR:CB	1:B:1198:GLN:HA	2.16	0.73
1:B:4664:LEU:O	1:B:4664:LEU:HD22	1.88	0.73
1:D:789:VAL:O	1:D:1627:ALA:CA	2.36	0.73
1:D:169:LEU:O	1:D:170:ILE:C	2.26	0.73
1:D:1708:ARG:CG	1:D:1712:TYR:HE2	2.01	0.73
1:D:2586:VAL:HA	1:D:2587:TYR:CB	2.16	0.73
1:D:4696:ASP:CA	1:D:4697:VAL:CB	2.65	0.73
1:D:608:VAL:CA	1:D:613:ALA:HB2	2.18	0.73
1:A:348:VAL:CB	1:A:349:GLN:HA	2.18	0.73
1:B:789:VAL:O	1:B:1627:ALA:CA	2.36	0.73
1:B:2125:HIS:HB2	1:B:3725:TYR:CZ	2.23	0.73
1:B:3833:GLN:CA	1:B:3833:GLN:HE21	2.02	0.73
1:C:1708:ARG:CG	1:C:1712:TYR:HE2	2.01	0.73
1:C:3757:GLU:CB	1:C:4719:PHE:HE2	2.01	0.73
1:C:4800:LEU:HD23	1:C:4801:LEU:N	2.03	0.73
1:D:4783:ILE:CD1	1:D:4789:PHE:CE1	2.72	0.73
1:D:5026:ASP:N	1:D:5026:ASP:OD1	2.20	0.73
1:A:4942:GLU:CB	1:B:4944:ARG:HH22	2.02	0.73
1:B:1708:ARG:CG	1:B:1712:TYR:HE2	2.01	0.73
1:B:302:VAL:O	1:B:307:ALA:HB2	1.89	0.73
1:B:783:PHE:CB	1:B:1630:CYS:SG	2.75	0.73
1:C:119:SER:CB	1:C:146:CYS:CB	2.66	0.73
1:D:1124:PHE:CA	1:D:1130:GLN:O	2.36	0.73
1:D:4243:PHE:HD2	1:D:4671:PHE:CZ	1.67	0.73
1:D:4925:ILE:N	1:D:4925:ILE:HD12	2.03	0.73
1:D:4968:PHE:CD2	1:D:4978:HIS:HB2	2.21	0.73
1:A:4664:LEU:O	1:A:4664:LEU:HD22	1.88	0.73
1:B:1124:PHE:CB	1:B:1131:ARG:N	2.48	0.73
1:C:302:VAL:O	1:C:307:ALA:HB2	1.89	0.73
1:C:4833:ASN:HD21	1:C:4939:ALA:HB2	1.51	0.73
1:C:838:HIS:O	1:C:839:LEU:CB	2.35	0.73
1:D:1122:TYR:HD1	1:D:1133:HIS:O	1.71	0.73
1:D:669:ASP:CB	1:D:788:LYS:O	2.37	0.73
1:A:789:VAL:O	1:A:1627:ALA:CA	2.36	0.73
1:A:1708:ARG:HG2	1:A:1712:TYR:CE2	2.22	0.73
1:A:302:VAL:O	1:A:307:ALA:HB2	1.89	0.73
1:B:344:SER:CB	1:B:345:LEU:CA	2.53	0.73
1:C:3833:GLN:CA	1:C:3833:GLN:HE21	2.02	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1515:VAL:CA	1:D:1529:PHE:CB	2.66	0.73
1:D:4960:ILE:CB	1:D:4983:HIS:CD2	2.72	0.73
1:D:5031:GLN:HE21	1:D:5032:TYR:HD1	1.36	0.73
1:A:3933:PHE:CE1	1:A:3951:PHE:CE2	2.77	0.73
1:A:4960:ILE:CB	1:A:4983:HIS:CD2	2.72	0.73
1:B:1124:PHE:CA	1:B:1130:GLN:O	2.36	0.73
1:B:4776:GLN:HE21	1:B:4776:GLN:CA	2.00	0.73
1:B:4968:PHE:CD2	1:B:4978:HIS:HB2	2.21	0.73
1:C:1095:VAL:H	1:C:1200:GLY:CA	1.98	0.73
1:C:4696:ASP:CB	1:C:4697:VAL:CG1	2.67	0.73
1:D:119:SER:CB	1:D:146:CYS:CB	2.66	0.73
1:D:3933:PHE:CE1	1:D:3951:PHE:CE2	2.77	0.73
1:A:113:HIS:N	1:A:114:SER:HA	2.00	0.73
1:A:2125:HIS:HB2	1:A:3725:TYR:CZ	2.23	0.73
1:A:285:VAL:O	1:A:286:THR:CB	2.37	0.73
1:A:4936:ILE:HD12	1:D:4930:ALA:HB3	1.70	0.73
1:A:669:ASP:CB	1:A:788:LYS:O	2.37	0.73
1:C:1515:VAL:CA	1:C:1529:PHE:CB	2.66	0.73
1:C:348:VAL:CB	1:C:349:GLN:HA	2.18	0.73
1:C:4952:GLU:OE2	1:C:4953:ASP:N	2.22	0.73
1:D:3114:LYS:CA	1:D:3174:SER:CB	2.63	0.73
1:A:4958:CYS:N	1:A:4964:GLY:HA3	2.03	0.73
1:B:149:THR:CB	1:B:172:VAL:O	2.36	0.73
1:C:669:ASP:CB	1:C:788:LYS:O	2.37	0.73
1:C:681:HIS:CA	1:C:784:SER:CB	2.67	0.73
1:A:3833:GLN:HE21	1:A:3833:GLN:CA	2.02	0.73
1:B:4958:CYS:N	1:B:4964:GLY:HA3	2.03	0.73
1:B:4960:ILE:CB	1:B:4983:HIS:CD2	2.72	0.73
1:C:3933:PHE:CE1	1:C:3951:PHE:CE2	2.77	0.73
1:D:590:LEU:O	1:D:593:HIS:O	2.07	0.73
1:A:1515:VAL:CA	1:A:1529:PHE:CB	2.66	0.72
1:A:2342:ASN:HA	1:A:2344:GLU:O	1.87	0.72
1:A:5026:ASP:N	1:A:5026:ASP:OD1	2.20	0.72
1:A:608:VAL:CA	1:A:613:ALA:HB2	2.18	0.72
1:B:4696:ASP:C	1:B:4697:VAL:HG22	2.10	0.72
1:C:1286:MET:CB	1:C:1287:LEU:HA	2.19	0.72
1:C:3987:ASP:N	1:C:3988:ALA:HB3	2.04	0.72
1:C:4664:LEU:HD22	1:C:4664:LEU:O	1.88	0.72
1:D:348:VAL:CB	1:D:349:GLN:HA	2.18	0.72
1:D:4696:ASP:C	1:D:4697:VAL:HG22	2.10	0.72
1:A:5031:GLN:HE21	1:A:5032:TYR:HD1	1.36	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:721:LEU:CA	1:A:728:ARG:H	1.98	0.72
1:B:1251:GLU:O	1:B:1255:TYR:HA	1.89	0.72
1:B:1286:MET:CB	1:B:1287:LEU:HA	2.19	0.72
1:B:285:VAL:O	1:B:286:THR:CB	2.37	0.72
1:B:3987:ASP:N	1:B:3988:ALA:HB3	2.04	0.72
1:B:4181:ILE:CD1	1:B:4194:TYR:HA	2.19	0.72
1:B:4783:ILE:CD1	1:B:4789:PHE:CE1	2.72	0.72
1:B:4829:SER:CB	1:B:4940:PHE:HE1	2.02	0.72
1:C:1251:GLU:O	1:C:1255:TYR:HA	1.89	0.72
1:C:1440:PHE:O	1:C:1441:ALA:CB	2.37	0.72
1:C:2451:LEU:HA	1:C:2454:ARG:CB	2.19	0.72
1:C:3986:TRP:C	1:C:3988:ALA:HB3	2.09	0.72
1:C:4783:ILE:CD1	1:C:4789:PHE:CE1	2.72	0.72
1:C:590:LEU:O	1:C:593:HIS:O	2.07	0.72
1:C:608:VAL:CA	1:C:613:ALA:HB2	2.18	0.72
1:D:1239:SER:O	1:D:1608:MET:HA	1.88	0.72
1:D:3833:GLN:CA	1:D:3833:GLN:HE21	2.02	0.72
1:D:3757:GLU:CB	1:D:4719:PHE:HE2	2.01	0.72
1:A:1239:SER:O	1:A:1608:MET:HA	1.88	0.72
1:A:4183:ILE:N	1:A:4183:ILE:HD12	2.04	0.72
1:A:4886:HIS:O	1:A:4889:VAL:HG22	1.89	0.72
1:A:590:LEU:O	1:A:593:HIS:O	2.07	0.72
1:B:3757:GLU:CB	1:B:4719:PHE:HE2	2.01	0.72
1:B:3986:TRP:C	1:B:3988:ALA:HB3	2.09	0.72
1:C:2125:HIS:HB2	1:C:3725:TYR:CZ	2.23	0.72
1:C:4696:ASP:C	1:C:4697:VAL:HG22	2.10	0.72
1:C:4995:LEU:HD12	1:C:5011:TRP:CZ3	2.25	0.72
1:C:5031:GLN:HE21	1:C:5032:TYR:HD1	1.36	0.72
1:D:112:ALA:CA	1:D:115:ARG:H	2.02	0.72
1:D:3896:ASN:O	1:D:3900:GLN:N	2.15	0.72
1:D:4696:ASP:CB	1:D:4697:VAL:CG1	2.67	0.72
1:D:681:HIS:CA	1:D:784:SER:CB	2.67	0.72
1:A:344:SER:CB	1:A:345:LEU:CA	2.53	0.72
1:A:4696:ASP:CB	1:A:4697:VAL:CG1	2.67	0.72
1:A:4925:ILE:H	1:A:4925:ILE:HD12	1.54	0.72
1:B:1095:VAL:H	1:B:1200:GLY:CA	1.98	0.72
1:B:348:VAL:CB	1:B:349:GLN:HA	2.18	0.72
1:B:3933:PHE:CE1	1:B:3951:PHE:CE2	2.77	0.72
1:C:3962:PHE:CZ	1:C:4023:MET:HA	2.21	0.72
1:C:4197:ILE:HD12	1:C:4990:PHE:CD2	2.24	0.72
1:C:4195:PHE:HZ	1:C:4991:PHE:HB2	1.50	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1251:GLU:O	1:D:1255:TYR:HA	1.89	0.72
1:D:2451:LEU:HA	1:D:2454:ARG:CB	2.19	0.72
1:D:3987:ASP:N	1:D:3988:ALA:HB3	2.04	0.72
1:D:4559:PHE:CE2	1:D:4661:TYR:CB	2.72	0.72
1:B:2191:PHE:CD1	1:B:2192:TYR:CD1	2.78	0.72
1:D:1588:ALA:CB	1:D:1589:PRO:HA	2.18	0.72
1:A:112:ALA:CA	1:A:115:ARG:H	2.02	0.72
1:A:2191:PHE:CD1	1:A:2192:TYR:CD1	2.78	0.72
1:A:4181:ILE:CD1	1:A:4194:TYR:HA	2.19	0.72
1:A:4821:LYS:O	1:A:4825:THR:N	2.23	0.72
1:A:4925:ILE:N	1:A:4925:ILE:HD12	2.03	0.72
1:B:4925:ILE:H	1:B:4925:ILE:HD12	1.54	0.72
1:B:669:ASP:CB	1:B:788:LYS:O	2.37	0.72
1:D:285:VAL:O	1:D:286:THR:CB	2.37	0.72
1:C:4930:ALA:HB1	1:D:4936:ILE:CD1	2.20	0.72
1:A:4783:ILE:CD1	1:A:4789:PHE:CE1	2.72	0.72
1:A:702:TRP:HE1	1:A:1640:HIS:CB	2.02	0.72
1:B:635:THR:HA	1:B:1639:LEU:CB	2.20	0.72
1:B:4886:HIS:O	1:B:4889:VAL:HG22	1.90	0.72
1:B:608:VAL:CA	1:B:613:ALA:HB2	2.18	0.72
1:C:2274:ASP:CA	1:C:2277:ALA:H	1.91	0.72
1:C:4181:ILE:CD1	1:C:4194:TYR:HA	2.19	0.72
1:C:4823:LEU:HD22	1:C:4823:LEU:O	1.90	0.72
1:C:4886:HIS:O	1:C:4889:VAL:HG22	1.89	0.72
1:D:4967:TYR:OH	1:D:5030:LYS:CB	2.38	0.72
1:A:1286:MET:CB	1:A:1287:LEU:HA	2.19	0.72
1:A:4643:LEU:O	1:A:4643:LEU:HD12	1.90	0.72
1:A:4954:MET:HE3	1:A:4955:GLU:N	2.05	0.72
1:A:4967:TYR:OH	1:A:5030:LYS:CB	2.38	0.72
1:B:4696:ASP:CB	1:B:4697:VAL:CG1	2.67	0.72
1:C:1122:TYR:HE1	1:C:1133:HIS:O	1.72	0.72
1:C:3825:GLU:HA	1:C:3826:VAL:CB	2.20	0.72
1:C:4960:ILE:CB	1:C:4983:HIS:CD2	2.72	0.72
1:D:3962:PHE:CZ	1:D:4023:MET:HA	2.21	0.72
1:A:3986:TRP:C	1:A:3988:ALA:HB3	2.09	0.72
1:A:3987:ASP:N	1:A:3988:ALA:HB3	2.04	0.72
1:A:635:THR:HA	1:A:1639:LEU:CB	2.20	0.72
1:B:1515:VAL:CA	1:B:1529:PHE:CB	2.66	0.72
1:B:2451:LEU:HA	1:B:2454:ARG:CB	2.19	0.72
1:A:77:ALA:N	1:B:3935:TRP:HD1	1.88	0.72
1:B:4183:ILE:HD12	1:B:4183:ILE:N	2.04	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:4685:GLY:HA3	1:B:4689:THR:N	2.05	0.72
1:B:4967:TYR:OH	1:B:5030:LYS:CB	2.38	0.72
1:D:2449:GLU:O	1:D:2450:ALA:CB	2.36	0.72
1:D:3986:TRP:C	1:D:3988:ALA:HB3	2.09	0.72
1:D:4925:ILE:H	1:D:4925:ILE:HD12	1.54	0.72
1:A:3934:TYR:HE1	1:A:3935:TRP:CZ3	2.08	0.72
1:A:4696:ASP:C	1:A:4697:VAL:HG22	2.10	0.72
1:B:4823:LEU:HD22	1:B:4823:LEU:O	1.90	0.72
1:B:590:LEU:O	1:B:593:HIS:O	2.07	0.72
1:C:1745:ILE:O	1:C:1746:THR:CB	2.30	0.72
1:C:5026:ASP:N	1:C:5026:ASP:OD1	2.20	0.72
1:D:4643:LEU:HD12	1:D:4643:LEU:O	1.90	0.72
1:D:4823:LEU:O	1:D:4823:LEU:HD22	1.90	0.72
1:A:2451:LEU:HA	1:A:2454:ARG:CB	2.19	0.71
1:B:4235:VAL:HG22	1:B:5019:TRP:HZ3	1.52	0.71
1:C:285:VAL:O	1:C:286:THR:CB	2.37	0.71
1:C:4559:PHE:CE1	1:C:4560:TYR:HE1	2.00	0.71
1:C:4559:PHE:CE2	1:C:4661:TYR:CB	2.72	0.71
1:D:302:VAL:O	1:D:307:ALA:HB2	1.89	0.71
1:D:3934:TYR:HE1	1:D:3935:TRP:CZ3	2.08	0.71
1:D:4183:ILE:HD12	1:D:4183:ILE:N	2.04	0.71
1:B:4930:ALA:HB3	1:C:4936:ILE:HD12	1.71	0.71
1:B:4942:GLU:CB	1:C:4944:ARG:HH22	2.02	0.71
1:B:5031:GLN:HE21	1:B:5032:TYR:HD1	1.36	0.71
1:C:4183:ILE:N	1:C:4183:ILE:HD12	2.04	0.71
1:C:4685:GLY:HA3	1:C:4689:THR:N	2.05	0.71
1:C:77:ALA:N	1:D:3935:TRP:HD1	1.88	0.71
1:A:1588:ALA:CB	1:A:1589:PRO:HA	2.18	0.71
1:B:3825:GLU:HA	1:B:3826:VAL:CB	2.20	0.71
1:B:4821:LYS:O	1:B:4825:THR:N	2.23	0.71
1:B:667:MET:N	1:B:790:ARG:O	2.24	0.71
1:B:681:HIS:CA	1:B:784:SER:CB	2.67	0.71
1:C:1093:GLU:N	1:C:1201:HIS:O	2.24	0.71
1:D:2191:PHE:CD1	1:D:2192:TYR:CD1	2.78	0.71
1:D:3825:GLU:HA	1:D:3826:VAL:CB	2.20	0.71
1:C:635:THR:HA	1:C:1639:LEU:CB	2.20	0.71
1:C:1803:PRO:O	1:C:1806:ALA:HB3	1.90	0.71
1:C:3896:ASN:O	1:C:3900:GLN:N	2.15	0.71
1:C:4088:ILE:O	1:C:4089:SER:O	2.07	0.71
1:D:1286:MET:CB	1:D:1287:LEU:HA	2.19	0.71
1:A:4823:LEU:O	1:A:4823:LEU:HD22	1.90	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1122:TYR:HD1	1:B:1133:HIS:O	1.71	0.71
1:B:3934:TYR:HE1	1:B:3935:TRP:CZ3	2.08	0.71
1:B:4088:ILE:O	1:B:4089:SER:O	2.07	0.71
1:B:5026:ASP:OD1	1:B:5026:ASP:N	2.20	0.71
1:D:1679:ASN:O	1:D:1682:ALA:N	2.24	0.71
1:A:1251:GLU:O	1:A:1255:TYR:HA	1.89	0.71
1:A:4088:ILE:O	1:A:4089:SER:O	2.07	0.71
1:A:667:MET:N	1:A:790:ARG:O	2.24	0.71
1:B:1093:GLU:O	1:B:1201:HIS:N	2.23	0.71
1:B:27:THR:HA	1:B:32:GLN:CA	2.15	0.71
1:B:4643:LEU:HD12	1:B:4643:LEU:O	1.90	0.71
1:B:4662:ASN:ND2	1:B:4789:PHE:HB2	2.06	0.71
1:D:3984:ARG:HD2	1:D:3984:ARG:C	2.11	0.71
1:D:4197:ILE:HD12	1:D:4990:PHE:CD2	2.24	0.71
1:D:4886:HIS:O	1:D:4889:VAL:HG22	1.89	0.71
1:A:4662:ASN:ND2	1:A:4789:PHE:HB2	2.06	0.71
1:C:112:ALA:CA	1:C:115:ARG:H	2.02	0.71
1:D:1440:PHE:O	1:D:1441:ALA:CB	2.37	0.71
1:D:4036:VAL:O	1:D:4153:HIS:HD2	1.74	0.71
1:D:4181:ILE:CD1	1:D:4194:TYR:HA	2.19	0.71
1:A:3825:GLU:HA	1:A:3826:VAL:CB	2.20	0.71
1:A:3984:ARG:C	1:A:3984:ARG:HD2	2.11	0.71
1:A:681:HIS:CA	1:A:784:SER:CB	2.67	0.71
1:B:1803:PRO:O	1:B:1806:ALA:HB3	1.90	0.71
1:B:77:ALA:N	1:C:3935:TRP:HD1	1.89	0.71
1:C:1093:GLU:O	1:C:1201:HIS:N	2.23	0.71
1:C:3984:ARG:C	1:C:3984:ARG:HD2	2.11	0.71
1:C:4935:LEU:HD23	1:C:4935:LEU:N	2.05	0.71
1:C:4967:TYR:OH	1:C:5030:LYS:CB	2.38	0.71
1:D:1718:ILE:C	1:D:1720:LEU:CB	2.59	0.71
1:B:3984:ARG:C	1:B:3984:ARG:HD2	2.11	0.71
1:C:2505:PHE:O	1:C:2509:VAL:N	2.18	0.71
1:C:4036:VAL:O	1:C:4153:HIS:HD2	1.74	0.71
1:D:1023:PRO:O	1:D:1026:LEU:N	2.24	0.71
1:D:635:THR:HA	1:D:1639:LEU:CB	2.20	0.71
1:D:918:ARG:CA	1:D:921:ASN:H	1.89	0.71
1:A:1679:ASN:O	1:A:1682:ALA:N	2.24	0.71
1:A:1718:ILE:C	1:A:1720:LEU:CB	2.59	0.71
1:A:2767:ALA:CB	1:A:2855:TYR:O	2.30	0.71
1:A:4685:GLY:HA3	1:A:4689:THR:N	2.05	0.71
1:A:4935:LEU:N	1:A:4935:LEU:HD23	2.05	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1679:ASN:O	1:B:1682:ALA:N	2.24	0.71
1:B:3962:PHE:CZ	1:B:4023:MET:HA	2.21	0.71
1:B:4197:ILE:HD12	1:B:4990:PHE:CD2	2.24	0.71
1:B:4995:LEU:HD12	1:B:5011:TRP:CZ3	2.25	0.71
1:C:1679:ASN:O	1:C:1682:ALA:N	2.24	0.71
1:C:4235:VAL:CG2	1:C:5019:TRP:CE3	2.50	0.71
1:C:4784:PHE:C	1:C:4789:PHE:CE2	2.59	0.71
1:C:4934:GLY:O	1:C:4938:ASP:N	2.17	0.71
1:C:702:TRP:HE1	1:C:1640:HIS:CB	2.02	0.71
1:D:1093:GLU:N	1:D:1201:HIS:O	2.24	0.71
1:D:3914:ASN:O	1:D:3917:ILE:N	2.23	0.71
1:D:4685:GLY:HA3	1:D:4689:THR:N	2.05	0.71
1:A:1093:GLU:N	1:A:1201:HIS:O	2.24	0.70
1:A:1440:PHE:O	1:A:1441:ALA:CB	2.37	0.70
1:A:4776:GLN:CA	1:A:4776:GLN:HE21	2.00	0.70
1:B:1093:GLU:N	1:B:1201:HIS:O	2.24	0.70
1:B:1718:ILE:C	1:B:1720:LEU:CB	2.60	0.70
1:B:2274:ASP:CA	1:B:2277:ALA:H	1.91	0.70
1:B:302:VAL:O	1:B:307:ALA:CB	2.39	0.70
1:B:4559:PHE:CE2	1:B:4661:TYR:CB	2.72	0.70
1:B:4806:ASN:HD22	1:B:4806:ASN:N	1.89	0.70
1:B:4933:GLN:O	1:B:4936:ILE:HG22	1.91	0.70
1:C:2102:VAL:HA	1:C:2105:TRP:HD1	1.56	0.70
1:C:291:LEU:HA	1:C:301:VAL:CB	2.21	0.70
1:C:4643:LEU:O	1:C:4643:LEU:HD12	1.90	0.70
1:D:1721:GLU:O	1:D:1723:ALA:N	2.24	0.70
1:A:291:LEU:HA	1:A:301:VAL:CB	2.21	0.70
1:B:112:ALA:CA	1:B:115:ARG:H	2.02	0.70
1:B:1721:GLU:O	1:B:1723:ALA:N	2.24	0.70
1:C:214:VAL:O	1:C:215:THR:CB	2.39	0.70
1:C:302:VAL:O	1:C:307:ALA:CB	2.39	0.70
1:D:4088:ILE:O	1:D:4089:SER:O	2.07	0.70
1:D:4662:ASN:ND2	1:D:4789:PHE:HB2	2.06	0.70
1:A:3823:LYS:C	1:A:3825:GLU:N	2.43	0.70
1:A:67:PHE:O	1:A:68:THR:CB	2.40	0.70
1:B:702:TRP:HE1	1:B:1640:HIS:CB	2.02	0.70
1:B:291:LEU:HA	1:B:301:VAL:CB	2.21	0.70
1:B:4182:GLU:CD	1:B:4988:TYR:HB2	2.11	0.70
1:B:4181:ILE:HG21	1:B:4193:ILE:N	2.07	0.70
1:C:2191:PHE:CD1	1:C:2192:TYR:CD1	2.78	0.70
1:C:4181:ILE:HG21	1:C:4193:ILE:N	2.07	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4662:ASN:ND2	1:C:4789:PHE:HB2	2.05	0.70
1:D:4995:LEU:HD13	1:D:4995:LEU:O	1.92	0.70
1:A:4984:ASN:O	1:A:4986:ALA:N	2.24	0.70
1:B:1023:PRO:O	1:B:1026:LEU:N	2.24	0.70
1:A:214:VAL:O	1:A:215:THR:CB	2.39	0.70
1:A:3914:ASN:O	1:A:3917:ILE:N	2.23	0.70
1:C:2194:HIS:HA	1:C:2197:LEU:CB	2.22	0.70
1:C:3934:TYR:HE1	1:C:3935:TRP:CZ3	2.08	0.70
1:C:4729:GLY:CA	1:C:4732:PHE:H	2.05	0.70
1:C:4821:LYS:O	1:C:4825:THR:N	2.23	0.70
1:C:4936:ILE:HG23	1:C:4937:ILE:N	2.07	0.70
1:C:667:MET:N	1:C:790:ARG:O	2.24	0.70
1:D:302:VAL:O	1:D:307:ALA:CB	2.39	0.70
1:D:3937:TYR:OH	1:D:3943:ILE:O	2.10	0.70
1:A:4934:GLY:O	1:A:4938:ASP:N	2.18	0.70
1:A:501:ALA:HB3	1:A:504:ALA:H	1.57	0.70
1:B:168:ASP:HA	1:B:200:TRP:O	1.92	0.70
1:B:2194:HIS:HA	1:B:2197:LEU:CB	2.22	0.70
1:C:1211:LEU:O	1:C:1213:PHE:HA	1.92	0.70
1:C:1718:ILE:C	1:C:1720:LEU:CB	2.59	0.70
1:C:2105:TRP:CE3	1:C:2106:ALA:HA	2.27	0.70
1:C:4925:ILE:HD12	1:C:4925:ILE:H	1.54	0.70
1:D:4195:PHE:HZ	1:D:4991:PHE:HB2	1.50	0.70
1:A:302:VAL:O	1:A:307:ALA:CB	2.39	0.70
1:B:4036:VAL:O	1:B:4153:HIS:HD2	1.74	0.70
1:C:4995:LEU:O	1:C:4995:LEU:HD13	1.92	0.70
1:D:702:TRP:HE1	1:D:1640:HIS:CB	2.02	0.70
1:D:168:ASP:HA	1:D:200:TRP:O	1.92	0.70
1:D:4768:LEU:HD13	1:D:4770:SER:N	2.07	0.70
1:A:1023:PRO:O	1:A:1026:LEU:N	2.24	0.70
1:B:1122:TYR:HE1	1:B:1133:HIS:O	1.72	0.70
1:B:3937:TYR:OH	1:B:3943:ILE:O	2.10	0.70
1:A:4930:ALA:HB1	1:B:4936:ILE:CD1	2.20	0.70
1:C:3933:PHE:CE2	1:C:3951:PHE:HD2	2.06	0.70
1:C:4182:GLU:CD	1:C:4988:TYR:HB2	2.11	0.70
1:D:3823:LYS:C	1:D:3825:GLU:N	2.43	0.70
1:A:168:ASP:HA	1:A:200:TRP:O	1.92	0.70
1:A:1721:GLU:O	1:A:1723:ALA:N	2.24	0.70
1:A:2105:TRP:CE3	1:A:2106:ALA:HA	2.27	0.70
1:A:4181:ILE:HG21	1:A:4193:ILE:N	2.06	0.70
1:A:4926:VAL:HG13	1:A:4927:ILE:N	2.07	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1085:SER:C	1:B:1155:LEU:CB	2.60	0.70
1:C:1023:PRO:O	1:C:1026:LEU:N	2.24	0.70
1:D:1085:SER:C	1:D:1155:LEU:CB	2.60	0.70
1:D:2190:VAL:O	1:D:2191:PHE:CB	2.40	0.70
1:D:4181:ILE:HD11	1:D:4195:PHE:H	1.57	0.70
1:A:4936:ILE:CD1	1:D:4930:ALA:CB	2.70	0.70
1:D:67:PHE:O	1:D:68:THR:CB	2.40	0.70
1:A:3937:TYR:OH	1:A:3943:ILE:O	2.10	0.70
1:A:4806:ASN:N	1:A:4806:ASN:HD22	1.89	0.70
1:B:4926:VAL:HG13	1:B:4927:ILE:N	2.07	0.70
1:D:1803:PRO:O	1:D:1806:ALA:HB3	1.91	0.70
1:D:4933:GLN:O	1:D:4936:ILE:HG22	1.91	0.70
1:A:2194:HIS:HA	1:A:2197:LEU:CB	2.22	0.69
1:A:4181:ILE:HD11	1:A:4195:PHE:N	2.07	0.69
1:B:4729:GLY:CA	1:B:4732:PHE:H	2.05	0.69
1:C:4181:ILE:HD11	1:C:4195:PHE:N	2.07	0.69
1:D:214:VAL:O	1:D:215:THR:CB	2.39	0.69
1:D:3933:PHE:CE2	1:D:3951:PHE:HD2	2.06	0.69
1:D:4181:ILE:HD11	1:D:4195:PHE:N	2.07	0.69
1:D:4182:GLU:CD	1:D:4988:TYR:HB2	2.11	0.69
1:A:1093:GLU:O	1:A:1201:HIS:N	2.23	0.69
1:A:4036:VAL:O	1:A:4153:HIS:HD2	1.74	0.69
1:A:4687:TYR:CA	1:A:4691:GLN:CB	2.53	0.69
1:A:4235:VAL:CG2	1:A:5019:TRP:CE3	2.50	0.69
1:B:4971:THR:HG23	1:B:4974:GLY:CA	2.17	0.69
1:B:67:PHE:O	1:B:68:THR:CB	2.40	0.69
1:C:2190:VAL:O	1:C:2191:PHE:CB	2.40	0.69
1:C:4178:LEU:C	1:C:4178:LEU:HD12	2.13	0.69
1:D:1093:GLU:O	1:D:1201:HIS:N	2.23	0.69
1:D:4181:ILE:HG21	1:D:4193:ILE:N	2.06	0.69
1:A:3935:TRP:HD1	1:D:77:ALA:N	1.89	0.69
1:A:4575:PHE:CD1	1:A:4576:ILE:N	2.61	0.69
1:B:1290:ARG:CA	1:B:1551:ALA:HB2	2.19	0.69
1:B:4181:ILE:HD11	1:B:4195:PHE:N	2.07	0.69
1:C:1721:GLU:O	1:C:1723:ALA:N	2.24	0.69
1:D:2194:HIS:HA	1:D:2197:LEU:CB	2.22	0.69
1:D:291:LEU:HA	1:D:301:VAL:CB	2.21	0.69
1:D:4178:LEU:HD12	1:D:4178:LEU:C	2.13	0.69
1:D:4729:GLY:CA	1:D:4732:PHE:H	2.05	0.69
1:B:4235:VAL:CG2	1:B:5019:TRP:CE3	2.50	0.69
1:C:4924:VAL:HG23	1:C:4925:ILE:N	2.07	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:4776:GLN:HE21	1:D:4776:GLN:CA	2.00	0.69
1:D:4971:THR:HG23	1:D:4974:GLY:CA	2.17	0.69
1:A:1211:LEU:O	1:A:1213:PHE:HA	1.92	0.69
1:A:2125:HIS:HB2	1:A:3725:TYR:OH	1.93	0.69
1:B:1211:LEU:O	1:B:1213:PHE:HA	1.92	0.69
1:B:4984:ASN:C	1:B:4985:LEU:HD12	2.12	0.69
1:B:789:VAL:O	1:B:1627:ALA:C	2.31	0.69
1:C:2125:HIS:HB2	1:C:3725:TYR:OH	1.93	0.69
1:C:4181:ILE:HD11	1:C:4195:PHE:H	1.57	0.69
1:C:4575:PHE:CD1	1:C:4576:ILE:N	2.61	0.69
1:D:2102:VAL:HA	1:D:2105:TRP:HD1	1.56	0.69
1:A:701:GLY:H	1:A:1645:ASN:CB	2.05	0.69
1:B:787:VAL:O	1:B:1630:CYS:N	2.26	0.69
1:B:4915:VAL:O	1:B:4918:ILE:HG22	1.93	0.69
1:B:4924:VAL:HG23	1:B:4925:ILE:N	2.07	0.69
1:C:1085:SER:C	1:C:1155:LEU:CB	2.60	0.69
1:C:4795:TYR:HE1	1:C:4813:LEU:HA	1.58	0.69
1:C:4915:VAL:O	1:C:4918:ILE:HG22	1.93	0.69
1:C:4984:ASN:C	1:C:4985:LEU:HD12	2.12	0.69
1:C:789:VAL:O	1:C:1627:ALA:C	2.31	0.69
1:D:1096:THR:CB	1:D:1198:GLN:C	2.61	0.69
1:D:1211:LEU:O	1:D:1213:PHE:HA	1.92	0.69
1:D:1745:ILE:O	1:D:1746:THR:CB	2.30	0.69
1:D:2105:TRP:CE3	1:D:2106:ALA:HA	2.27	0.69
1:D:346:CYS:O	1:D:387:ALA:CA	2.27	0.69
1:D:4916:PHE:O	1:D:4919:THR:HG23	1.93	0.69
1:A:25:SER:O	1:A:26:ALA:O	2.11	0.69
1:A:4559:PHE:CE1	1:A:4560:TYR:HE1	2.00	0.69
1:B:1096:THR:CB	1:B:1198:GLN:C	2.61	0.69
1:B:1129:GLY:O	1:B:1138:PRO:HA	1.92	0.69
1:C:701:GLY:H	1:C:1645:ASN:CB	2.05	0.69
1:C:3937:TYR:OH	1:C:3943:ILE:O	2.10	0.69
1:D:701:GLY:H	1:D:1645:ASN:CB	2.05	0.69
1:A:4178:LEU:HD12	1:A:4178:LEU:C	2.13	0.69
1:A:4673:ARG:CB	1:A:4673:ARG:HH11	2.04	0.69
1:A:4729:GLY:CA	1:A:4732:PHE:H	2.05	0.69
1:A:4984:ASN:C	1:A:4985:LEU:HD12	2.12	0.69
1:B:4795:TYR:HE1	1:B:4813:LEU:HA	1.58	0.69
1:B:4916:PHE:O	1:B:4919:THR:HG23	1.93	0.69
1:B:4930:ALA:CB	1:C:4936:ILE:CD1	2.71	0.69
1:C:4916:PHE:O	1:C:4919:THR:HG23	1.93	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:67:PHE:O	1:C:68:THR:CB	2.40	0.69
1:D:4784:PHE:C	1:D:4789:PHE:CE2	2.59	0.69
1:D:4806:ASN:HD22	1:D:4806:ASN:N	1.89	0.69
1:A:1085:SER:C	1:A:1155:LEU:CB	2.61	0.69
1:B:2435:ARG:CB	1:B:2501:SER:CB	2.71	0.69
1:B:25:SER:O	1:B:26:ALA:O	2.11	0.69
1:B:3933:PHE:CE2	1:B:3951:PHE:HD2	2.07	0.69
1:B:77:ALA:CB	1:C:3935:TRP:CD1	2.75	0.69
1:C:1096:THR:CB	1:C:1198:GLN:C	2.61	0.69
1:C:1213:PHE:HA	1:C:1214:PHE:CB	2.22	0.69
1:C:3933:PHE:CE1	1:C:3951:PHE:HD2	2.02	0.69
1:C:4978:HIS:CE1	1:C:4983:HIS:HE2	1.78	0.69
1:D:112:ALA:N	1:D:113:HIS:C	2.44	0.69
1:D:4575:PHE:CD1	1:D:4576:ILE:N	2.61	0.69
1:D:4687:TYR:CA	1:D:4691:GLN:CB	2.53	0.69
1:A:3935:TRP:CD1	1:D:77:ALA:CB	2.75	0.69
1:A:1129:GLY:O	1:A:1138:PRO:HA	1.92	0.69
1:A:1745:ILE:O	1:A:1746:THR:CB	2.30	0.69
1:A:3962:PHE:CZ	1:A:4023:MET:HA	2.21	0.69
1:A:789:VAL:O	1:A:1627:ALA:C	2.31	0.69
1:B:2105:TRP:CE3	1:B:2106:ALA:HA	2.27	0.69
1:B:4178:LEU:C	1:B:4178:LEU:HD12	2.13	0.69
1:C:4806:ASN:HD22	1:C:4806:ASN:N	1.89	0.69
1:D:4821:LYS:O	1:D:4825:THR:N	2.23	0.69
1:D:4926:VAL:HG13	1:D:4927:ILE:N	2.07	0.69
1:D:667:MET:N	1:D:790:ARG:O	2.24	0.69
1:A:5025:GLY:C	1:A:5026:ASP:OD1	2.32	0.69
1:B:701:GLY:H	1:B:1645:ASN:CB	2.05	0.69
1:B:2125:HIS:HB2	1:B:3725:TYR:OH	1.93	0.69
1:D:1083:VAL:O	1:D:1187:GLY:CA	2.41	0.69
1:D:1213:PHE:HA	1:D:1214:PHE:CB	2.22	0.69
1:D:501:ALA:HB3	1:D:504:ALA:H	1.57	0.69
1:A:1803:PRO:O	1:A:1806:ALA:HB3	1.90	0.68
1:B:346:CYS:O	1:B:387:ALA:CA	2.27	0.68
1:C:787:VAL:O	1:C:1630:CYS:N	2.26	0.68
1:C:4956:THR:O	1:C:4964:GLY:C	2.31	0.68
1:D:4956:THR:O	1:D:4964:GLY:C	2.31	0.68
1:D:4984:ASN:C	1:D:4985:LEU:HD12	2.12	0.68
1:D:546:TRP:CE3	1:D:547:VAL:HA	2.29	0.68
1:A:787:VAL:O	1:A:1630:CYS:N	2.26	0.68
1:B:546:TRP:CE3	1:B:547:VAL:HA	2.28	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4088:ILE:O	1:C:4093:PHE:N	2.27	0.68
1:A:4559:PHE:CE2	1:A:4661:TYR:CB	2.72	0.68
1:A:77:ALA:CA	1:B:3935:TRP:HD1	2.06	0.68
1:B:4687:TYR:H	1:B:4692:PRO:HD3	1.59	0.68
1:B:4783:ILE:HD13	1:B:4789:PHE:CZ	2.28	0.68
1:B:4995:LEU:HD13	1:B:4995:LEU:O	1.92	0.68
1:B:5025:GLY:C	1:B:5026:ASP:OD1	2.32	0.68
1:C:168:ASP:HA	1:C:200:TRP:O	1.92	0.68
1:C:2767:ALA:CB	1:C:2855:TYR:O	2.30	0.68
1:D:2435:ARG:CB	1:D:2501:SER:CB	2.71	0.68
1:D:25:SER:O	1:D:26:ALA:O	2.11	0.68
1:D:4088:ILE:O	1:D:4093:PHE:N	2.27	0.68
1:A:1122:TYR:HD1	1:A:1133:HIS:O	1.71	0.68
1:A:1213:PHE:HA	1:A:1214:PHE:CB	2.22	0.68
1:A:546:TRP:CE3	1:A:547:VAL:HA	2.29	0.68
1:B:1287:LEU:CB	1:B:1554:VAL:O	2.42	0.68
1:B:4575:PHE:CD1	1:B:4576:ILE:N	2.61	0.68
1:C:1290:ARG:N	1:C:1551:ALA:CB	2.57	0.68
1:C:2161:GLN:NE2	1:C:2178:MET:CB	2.56	0.68
1:C:262:LEU:CB	1:C:263:GLU:HA	2.24	0.68
1:B:4930:ALA:HB1	1:C:4936:ILE:HD13	1.75	0.68
1:D:1290:ARG:N	1:D:1551:ALA:CB	2.57	0.68
1:D:229:GLU:CA	1:D:248:GLU:O	2.42	0.68
1:A:1287:LEU:CB	1:A:1554:VAL:O	2.42	0.68
1:A:2102:VAL:HA	1:A:2105:TRP:HD1	1.57	0.68
1:A:229:GLU:CA	1:A:248:GLU:O	2.42	0.68
1:A:4936:ILE:HG23	1:A:4937:ILE:N	2.07	0.68
1:A:77:ALA:CB	1:B:3935:TRP:CD1	2.74	0.68
1:B:4088:ILE:O	1:B:4093:PHE:N	2.27	0.68
1:B:501:ALA:HB3	1:B:504:ALA:H	1.57	0.68
1:C:1133:HIS:H	1:C:1135:GLY:N	1.92	0.68
1:D:1129:GLY:O	1:D:1138:PRO:HA	1.92	0.68
1:D:1287:LEU:CB	1:D:1554:VAL:O	2.42	0.68
1:A:1096:THR:CB	1:A:1198:GLN:C	2.61	0.68
1:A:1273:ALA:CB	1:A:1274:HIS:HA	2.18	0.68
1:A:3792:ALA:O	1:A:3795:SER:N	2.27	0.68
1:B:1440:PHE:O	1:B:1441:ALA:CB	2.37	0.68
1:B:3792:ALA:O	1:B:3795:SER:N	2.27	0.68
1:B:4556:SER:OG	1:B:4557:ARG:N	2.26	0.68
1:C:1129:GLY:O	1:C:1138:PRO:HA	1.92	0.68
1:C:1748:PHE:O	1:C:1751:GLY:O	2.12	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2435:ARG:CB	1:C:2501:SER:CB	2.71	0.68
1:C:4687:TYR:CA	1:C:4691:GLN:CB	2.53	0.68
1:C:4926:VAL:HG13	1:C:4927:ILE:N	2.07	0.68
1:C:501:ALA:HB3	1:C:504:ALA:H	1.57	0.68
1:A:2435:ARG:CB	1:A:2501:SER:CB	2.71	0.68
1:A:262:LEU:CB	1:A:263:GLU:HA	2.24	0.68
1:A:4181:ILE:HD11	1:A:4195:PHE:H	1.57	0.68
1:A:4652:LEU:HD13	1:A:4652:LEU:C	2.14	0.68
1:B:2190:VAL:O	1:B:2191:PHE:CB	2.40	0.68
1:B:4652:LEU:HD13	1:B:4652:LEU:C	2.14	0.68
1:B:721:LEU:O	1:B:727:ALA:HA	1.94	0.68
1:C:4783:ILE:HD13	1:C:4789:PHE:CZ	2.28	0.68
1:D:1246:GLU:O	1:D:1601:MET:C	2.32	0.68
1:D:4783:ILE:HD13	1:D:4789:PHE:CZ	2.28	0.68
1:D:4915:VAL:O	1:D:4918:ILE:HG22	1.93	0.68
1:A:2586:VAL:CA	1:A:2587:TYR:CB	2.71	0.68
1:A:4180:ARG:CA	1:A:4181:ILE:HG12	2.24	0.68
1:A:4784:PHE:C	1:A:4789:PHE:CE2	2.59	0.68
1:A:4995:LEU:HD11	1:A:5011:TRP:HE3	0.84	0.68
1:B:1213:PHE:HA	1:B:1214:PHE:CB	2.22	0.68
1:B:4715:TYR:HE1	1:B:4717:ASP:CB	2.07	0.68
1:B:4956:THR:O	1:B:4964:GLY:C	2.31	0.68
1:C:1287:LEU:CB	1:C:1554:VAL:O	2.42	0.68
1:C:3717:ASP:O	1:C:3719:ASP:N	2.27	0.68
1:D:2125:HIS:HB2	1:D:3725:TYR:OH	1.93	0.68
1:D:4715:TYR:HE1	1:D:4717:ASP:CB	2.07	0.68
1:A:4936:ILE:HD13	1:D:4930:ALA:HB1	1.74	0.68
1:A:112:ALA:N	1:A:113:HIS:C	2.44	0.68
1:A:1246:GLU:O	1:A:1601:MET:C	2.32	0.68
1:B:1748:PHE:O	1:B:1751:GLY:O	2.12	0.68
1:B:262:LEU:CB	1:B:263:GLU:HA	2.24	0.68
1:B:4559:PHE:CE1	1:B:4560:TYR:HE1	2.00	0.68
1:C:4715:TYR:HE1	1:C:4717:ASP:CB	2.07	0.68
1:D:4966:ASP:CB	1:D:4969:ASP:CB	2.72	0.68
1:D:990:GLU:O	1:D:994:ASN:N	2.27	0.68
1:A:4088:ILE:O	1:A:4093:PHE:N	2.27	0.68
1:A:4783:ILE:HD13	1:A:4789:PHE:CZ	2.28	0.68
1:A:4916:PHE:O	1:A:4919:THR:HG23	1.93	0.68
1:A:4936:ILE:HD12	1:D:4930:ALA:CB	2.24	0.68
1:B:1124:PHE:CA	1:B:1131:ARG:CA	2.52	0.68
1:B:214:VAL:O	1:B:215:THR:CB	2.39	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:4837:LEU:C	1:B:4837:LEU:HD23	2.15	0.68
1:C:25:SER:O	1:C:26:ALA:O	2.11	0.68
1:D:262:LEU:CB	1:D:263:GLU:HA	2.24	0.68
1:A:4956:THR:O	1:A:4964:GLY:C	2.31	0.67
1:B:3914:ASN:O	1:B:3917:ILE:N	2.23	0.67
1:C:3763:LEU:HD23	1:C:3763:LEU:C	2.15	0.67
1:D:4664:LEU:C	1:D:4664:LEU:HD13	2.15	0.67
1:A:1122:TYR:HE1	1:A:1133:HIS:O	1.72	0.67
1:A:1083:VAL:O	1:A:1187:GLY:CA	2.41	0.67
1:A:3933:PHE:CE2	1:A:3951:PHE:HD2	2.07	0.67
1:A:4850:LEU:C	1:A:4850:LEU:HD23	2.15	0.67
1:B:77:ALA:HB2	1:C:3935:TRP:CD1	2.29	0.67
1:C:1083:VAL:O	1:C:1187:GLY:CA	2.41	0.67
1:C:3823:LYS:C	1:C:3825:GLU:N	2.43	0.67
1:C:4180:ARG:HA	1:C:4181:ILE:HB	1.77	0.67
1:C:4192:ARG:NH1	1:C:5028:PHE:CD2	2.63	0.67
1:C:4664:LEU:HD13	1:C:4664:LEU:C	2.15	0.67
1:C:721:LEU:O	1:C:727:ALA:HA	1.94	0.67
1:D:5025:GLY:C	1:D:5026:ASP:OD1	2.32	0.67
1:D:789:VAL:O	1:D:1627:ALA:C	2.31	0.67
1:A:2161:GLN:NE2	1:A:2178:MET:CB	2.56	0.67
1:A:4192:ARG:NH1	1:A:5028:PHE:CD2	2.63	0.67
1:A:4837:LEU:C	1:A:4837:LEU:HD23	2.15	0.67
1:A:4921:PHE:O	1:A:4925:ILE:HD13	1.94	0.67
1:A:4924:VAL:HG23	1:A:4925:ILE:N	2.07	0.67
1:B:3934:TYR:HH	1:B:3998:HIS:HB3	1.58	0.67
1:B:4783:ILE:C	1:B:4783:ILE:HD13	2.15	0.67
1:C:546:TRP:CE3	1:C:547:VAL:HA	2.29	0.67
1:D:1133:HIS:H	1:D:1135:GLY:N	1.92	0.67
1:D:4850:LEU:C	1:D:4850:LEU:HD23	2.15	0.67
1:A:4180:ARG:HA	1:A:4181:ILE:HB	1.77	0.67
1:A:4715:TYR:HE1	1:A:4717:ASP:CB	2.07	0.67
1:A:67:PHE:O	1:A:110:ARG:O	2.13	0.67
1:B:4192:ARG:NH1	1:B:5028:PHE:CD2	2.63	0.67
1:B:4850:LEU:C	1:B:4850:LEU:HD23	2.15	0.67
1:B:4966:ASP:CB	1:B:4969:ASP:CB	2.72	0.67
1:C:1117:ALA:HA	1:C:1134:LEU:CB	2.25	0.67
1:C:4108:ILE:HD12	1:C:4108:ILE:C	2.15	0.67
1:C:4656:LEU:C	1:C:4656:LEU:HD13	2.15	0.67
1:C:5025:GLY:C	1:C:5026:ASP:OD1	2.32	0.67
1:C:990:GLU:O	1:C:994:ASN:N	2.27	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:112:ALA:C	1:D:115:ARG:N	2.48	0.67
1:A:1748:PHE:O	1:A:1751:GLY:O	2.12	0.67
1:A:2495:VAL:CB	1:A:2496:PRO:HD3	2.25	0.67
1:A:4108:ILE:C	1:A:4108:ILE:HD12	2.15	0.67
1:A:4783:ILE:HD13	1:A:4783:ILE:C	2.15	0.67
1:A:4795:TYR:HE1	1:A:4813:LEU:HA	1.58	0.67
1:A:5010:VAL:HG23	1:A:5011:TRP:N	2.10	0.67
1:B:67:PHE:O	1:B:110:ARG:O	2.13	0.67
1:B:1083:VAL:O	1:B:1187:GLY:CA	2.41	0.67
1:C:229:GLU:CA	1:C:248:GLU:O	2.42	0.67
1:C:4643:LEU:C	1:C:4643:LEU:HD12	2.15	0.67
1:C:4696:ASP:CB	1:C:4697:VAL:HG13	2.25	0.67
1:D:1748:PHE:O	1:D:1751:GLY:O	2.12	0.67
1:D:4696:ASP:HA	1:D:4697:VAL:CB	2.22	0.67
1:D:4795:TYR:HE1	1:D:4813:LEU:HA	1.57	0.67
1:D:4924:VAL:HG23	1:D:4925:ILE:N	2.07	0.67
1:D:4927:ILE:HD12	1:D:4927:ILE:C	2.15	0.67
1:A:3935:TRP:CD1	1:D:77:ALA:HB2	2.29	0.67
1:A:3717:ASP:O	1:A:3719:ASP:N	2.27	0.67
1:A:4823:LEU:C	1:A:4823:LEU:HD13	2.15	0.67
1:A:4927:ILE:C	1:A:4927:ILE:HD12	2.15	0.67
1:A:4966:ASP:CB	1:A:4969:ASP:CB	2.72	0.67
1:A:4235:VAL:HG22	1:A:5019:TRP:HZ3	1.52	0.67
1:A:721:LEU:O	1:A:727:ALA:HA	1.94	0.67
1:A:990:GLU:O	1:A:994:ASN:N	2.27	0.67
1:B:2495:VAL:CB	1:B:2496:PRO:HD3	2.25	0.67
1:B:990:GLU:O	1:B:994:ASN:N	2.27	0.67
1:C:1290:ARG:CA	1:C:1551:ALA:HB2	2.19	0.67
1:C:1708:ARG:HG2	1:C:1712:TYR:HE2	1.59	0.67
1:C:4146:LEU:HD23	1:C:4146:LEU:C	2.15	0.67
1:C:644:ILE:O	1:C:781:VAL:N	2.24	0.67
1:D:3792:ALA:O	1:D:3795:SER:N	2.27	0.67
1:D:4643:LEU:C	1:D:4643:LEU:HD12	2.15	0.67
1:D:5010:VAL:HG23	1:D:5011:TRP:N	2.10	0.67
1:A:4664:LEU:C	1:A:4664:LEU:HD13	2.15	0.67
1:A:4768:LEU:HD13	1:A:4770:SER:N	2.07	0.67
1:A:4915:VAL:O	1:A:4918:ILE:HG22	1.93	0.67
1:B:112:ALA:N	1:B:113:HIS:C	2.44	0.67
1:B:1246:GLU:O	1:B:1601:MET:C	2.32	0.67
1:B:2586:VAL:CA	1:B:2587:TYR:CB	2.71	0.67
1:B:4146:LEU:C	1:B:4146:LEU:HD23	2.15	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:4180:ARG:HA	1:B:4181:ILE:HB	1.77	0.67
1:B:4673:ARG:CB	1:B:4673:ARG:HH11	2.04	0.67
1:D:404:ILE:CB	1:D:478:PHE:CE1	2.78	0.67
1:A:4800:LEU:HD23	1:A:4800:LEU:C	2.15	0.67
1:B:112:ALA:C	1:B:115:ARG:N	2.48	0.67
1:B:148:TRP:HA	1:B:149:THR:CB	2.25	0.67
1:B:2161:GLN:NE2	1:B:2178:MET:CB	2.56	0.67
1:A:77:ALA:HB2	1:B:3935:TRP:CD1	2.29	0.67
1:B:4180:ARG:N	1:B:4181:ILE:HD13	2.10	0.67
1:B:4768:LEU:HD13	1:B:4770:SER:N	2.07	0.67
1:B:685:GLY:CA	1:B:712:TYR:O	2.43	0.67
1:B:77:ALA:CA	1:C:3935:TRP:HD1	2.08	0.67
1:C:404:ILE:CB	1:C:478:PHE:CE1	2.78	0.67
1:C:4837:LEU:HD23	1:C:4837:LEU:C	2.15	0.67
1:C:4943:LEU:C	1:C:4943:LEU:HD13	2.15	0.67
1:C:4966:ASP:CB	1:C:4969:ASP:CB	2.72	0.67
1:D:4171:LEU:C	1:D:4171:LEU:HD23	2.15	0.67
1:D:4800:LEU:C	1:D:4800:LEU:HD23	2.15	0.67
1:D:4837:LEU:HD23	1:D:4837:LEU:C	2.15	0.67
1:D:721:LEU:O	1:D:727:ALA:HA	1.94	0.67
1:A:2190:VAL:O	1:A:2191:PHE:CB	2.40	0.67
1:B:3717:ASP:O	1:B:3719:ASP:N	2.27	0.67
1:B:4696:ASP:CB	1:B:4697:VAL:HG13	2.25	0.67
1:B:4927:ILE:C	1:B:4927:ILE:HD12	2.15	0.67
1:C:3914:ASN:O	1:C:3917:ILE:N	2.23	0.67
1:C:4180:ARG:CA	1:C:4181:ILE:HG12	2.24	0.67
1:C:4823:LEU:HD13	1:C:4823:LEU:C	2.15	0.67
1:C:918:ARG:CA	1:C:921:ASN:H	1.89	0.67
1:D:3061:ALA:C	1:D:3064:VAL:CA	2.63	0.67
1:D:4935:LEU:HD23	1:D:4935:LEU:N	2.10	0.67
1:A:1133:HIS:H	1:A:1135:GLY:N	1.92	0.67
1:A:148:TRP:HA	1:A:149:THR:CB	2.25	0.67
1:A:3984:ARG:HD2	1:A:3984:ARG:O	1.95	0.67
1:B:1601:MET:CB	1:B:1602:PRO:HA	2.25	0.67
1:B:229:GLU:CA	1:B:248:GLU:O	2.42	0.67
1:B:39:ALA:CB	1:B:47:CYS:CB	2.67	0.67
1:C:1246:GLU:O	1:C:1601:MET:C	2.32	0.67
1:C:3792:ALA:O	1:C:3795:SER:N	2.27	0.67
1:C:4180:ARG:N	1:C:4181:ILE:HD13	2.10	0.67
1:C:4783:ILE:HD13	1:C:4783:ILE:C	2.15	0.67
1:C:5016:GLU:CB	1:C:5018:CYS:HB2	2.25	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:685:GLY:CA	1:C:712:TYR:O	2.43	0.67
1:D:2586:VAL:CA	1:D:2587:TYR:CB	2.71	0.67
1:D:3717:ASP:O	1:D:3719:ASP:N	2.27	0.67
1:D:4108:ILE:HD12	1:D:4108:ILE:C	2.15	0.67
1:A:4936:ILE:CD1	1:D:4930:ALA:HB1	2.25	0.67
1:D:5016:GLU:CB	1:D:5018:CYS:HB2	2.25	0.67
1:D:685:GLY:CA	1:D:712:TYR:O	2.43	0.67
1:D:686:TRP:N	1:D:712:TYR:O	2.28	0.67
1:A:112:ALA:C	1:A:115:ARG:N	2.48	0.66
1:B:3984:ARG:O	1:B:3984:ARG:HD2	1.95	0.66
1:B:4181:ILE:HD11	1:B:4195:PHE:H	1.57	0.66
1:B:4656:LEU:HD13	1:B:4656:LEU:C	2.15	0.66
1:B:4696:ASP:HA	1:B:4697:VAL:CB	2.22	0.66
1:B:4823:LEU:C	1:B:4823:LEU:HD13	2.15	0.66
1:C:112:ALA:C	1:C:115:ARG:N	2.48	0.66
1:C:4850:LEU:HD23	1:C:4850:LEU:C	2.15	0.66
1:C:4971:THR:HG23	1:C:4974:GLY:CA	2.17	0.66
1:D:4556:SER:OG	1:D:4557:ARG:N	2.26	0.66
1:D:39:ALA:CB	1:D:47:CYS:CB	2.67	0.66
1:D:4823:LEU:C	1:D:4823:LEU:HD13	2.15	0.66
1:A:2506:LEU:O	1:A:2510:TYR:N	2.26	0.66
1:A:4146:LEU:HD23	1:A:4146:LEU:C	2.15	0.66
1:A:4222:VAL:CB	1:A:4950:VAL:CG2	2.73	0.66
1:A:4995:LEU:C	1:A:4995:LEU:HD13	2.16	0.66
1:A:5008:SER:O	1:A:5011:TRP:N	2.29	0.66
1:B:3763:LEU:HD23	1:B:3763:LEU:C	2.15	0.66
1:B:4643:LEU:HD12	1:B:4643:LEU:C	2.15	0.66
1:B:4924:VAL:O	1:B:4928:LEU:HD23	1.95	0.66
1:B:4935:LEU:HD23	1:B:4935:LEU:N	2.10	0.66
1:C:148:TRP:HA	1:C:149:THR:CB	2.25	0.66
1:C:243:ARG:O	1:C:300:VAL:HA	1.96	0.66
1:C:4192:ARG:HG3	1:C:4192:ARG:O	1.95	0.66
1:C:4652:LEU:HD13	1:C:4652:LEU:C	2.14	0.66
1:B:4934:GLY:HA3	1:C:4937:ILE:HD11	1.33	0.66
1:D:1117:ALA:HA	1:D:1134:LEU:CB	2.25	0.66
1:D:3419:ASN:O	1:D:3423:TRP:CB	2.44	0.66
1:D:3984:ARG:HD2	1:D:3984:ARG:O	1.95	0.66
1:D:4146:LEU:HD23	1:D:4146:LEU:C	2.15	0.66
1:D:4180:ARG:CA	1:D:4181:ILE:HG12	2.24	0.66
1:D:4192:ARG:NH1	1:D:5028:PHE:CD2	2.63	0.66
1:D:4192:ARG:O	1:D:4192:ARG:HG3	1.95	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:43:GLY:O	1:D:44:ASN:CB	2.44	0.66
1:D:4783:ILE:C	1:D:4783:ILE:HD13	2.15	0.66
1:D:4924:VAL:O	1:D:4928:LEU:HD23	1.95	0.66
1:A:3419:ASN:O	1:A:3423:TRP:CB	2.44	0.66
1:A:4656:LEU:HD13	1:A:4656:LEU:C	2.15	0.66
1:A:4943:LEU:C	1:A:4943:LEU:HD13	2.15	0.66
1:A:4195:PHE:CD2	1:A:4991:PHE:CD2	2.82	0.66
1:A:685:GLY:CA	1:A:712:TYR:O	2.43	0.66
1:B:1133:HIS:H	1:B:1135:GLY:N	1.92	0.66
1:B:4108:ILE:C	1:B:4108:ILE:HD12	2.15	0.66
1:B:4664:LEU:C	1:B:4664:LEU:HD13	2.15	0.66
1:D:787:VAL:O	1:D:1630:CYS:N	2.26	0.66
1:D:4182:GLU:OE2	1:D:4988:TYR:CB	2.43	0.66
1:A:4171:LEU:C	1:A:4171:LEU:HD23	2.15	0.66
1:B:1117:ALA:HA	1:B:1134:LEU:CB	2.25	0.66
1:B:4930:ALA:CB	1:C:4936:ILE:HD12	2.25	0.66
1:C:404:ILE:O	1:C:408:ALA:CB	2.43	0.66
1:C:43:GLY:O	1:C:44:ASN:CB	2.44	0.66
1:C:4768:LEU:HD13	1:C:4770:SER:N	2.07	0.66
1:D:2161:GLN:NE2	1:D:2178:MET:CB	2.56	0.66
1:D:308:HIS:O	1:D:312:THR:HA	1.96	0.66
1:D:3763:LEU:HD23	1:D:3763:LEU:C	2.15	0.66
1:D:4180:ARG:HA	1:D:4181:ILE:HB	1.77	0.66
1:D:4652:LEU:C	1:D:4652:LEU:HD13	2.15	0.66
1:A:404:ILE:O	1:A:408:ALA:CB	2.44	0.66
1:B:2211:MET:O	1:B:2215:LEU:N	2.27	0.66
1:B:3419:ASN:O	1:B:3423:TRP:CB	2.44	0.66
1:B:4696:ASP:CA	1:B:4697:VAL:CG2	2.52	0.66
1:B:4784:PHE:O	1:B:4789:PHE:CE2	2.47	0.66
1:B:4995:LEU:C	1:B:4995:LEU:HD13	2.16	0.66
1:C:1601:MET:CB	1:C:1602:PRO:HA	2.25	0.66
1:C:4834:GLY:CA	1:C:4837:LEU:HB3	2.26	0.66
1:D:148:TRP:HA	1:D:149:THR:CB	2.25	0.66
1:D:1601:MET:CB	1:D:1602:PRO:HA	2.25	0.66
1:D:404:ILE:O	1:D:408:ALA:CB	2.43	0.66
1:D:4696:ASP:CB	1:D:4697:VAL:HG13	2.25	0.66
1:D:4834:GLY:CA	1:D:4837:LEU:HB3	2.26	0.66
1:D:789:VAL:C	1:D:1627:ALA:HB1	2.16	0.66
1:A:4147:LEU:C	1:A:4147:LEU:HD13	2.16	0.66
1:A:789:VAL:C	1:A:1627:ALA:HB1	2.16	0.66
1:B:2449:GLU:O	1:B:2450:ALA:CB	2.36	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2506:LEU:O	1:B:2510:TYR:N	2.26	0.66
1:B:4180:ARG:CA	1:B:4181:ILE:HG12	2.24	0.66
1:B:4834:GLY:CA	1:B:4837:LEU:HB3	2.26	0.66
1:B:5008:SER:O	1:B:5011:TRP:N	2.29	0.66
1:B:644:ILE:O	1:B:781:VAL:N	2.24	0.66
1:C:789:VAL:C	1:C:1627:ALA:HB1	2.16	0.66
1:D:4235:VAL:CB	1:D:5019:TRP:HZ3	2.04	0.66
1:A:3945:GLU:O	1:A:3947:GLY:N	2.29	0.66
1:B:404:ILE:O	1:B:408:ALA:CB	2.44	0.66
1:B:4171:LEU:HD23	1:B:4171:LEU:C	2.15	0.66
1:B:686:TRP:N	1:B:712:TYR:O	2.28	0.66
1:C:4696:ASP:HA	1:C:4697:VAL:CB	2.22	0.66
1:C:5008:SER:O	1:C:5011:TRP:N	2.29	0.66
1:C:686:TRP:N	1:C:712:TYR:O	2.28	0.66
1:D:2211:MET:O	1:D:2215:LEU:N	2.27	0.66
1:D:2495:VAL:CB	1:D:2496:PRO:HD3	2.25	0.66
1:D:4180:ARG:N	1:D:4181:ILE:HD13	2.10	0.66
1:A:2211:MET:O	1:A:2215:LEU:N	2.27	0.66
1:A:3763:LEU:C	1:A:3763:LEU:HD23	2.15	0.66
1:A:4192:ARG:NH1	1:A:5028:PHE:HD2	1.94	0.66
1:B:4182:GLU:OE2	1:B:4988:TYR:CB	2.43	0.66
1:B:4800:LEU:C	1:B:4800:LEU:HD23	2.15	0.66
1:C:308:HIS:O	1:C:312:THR:HA	1.96	0.66
1:C:4171:LEU:C	1:C:4171:LEU:HD23	2.15	0.66
1:C:4696:ASP:CA	1:C:4697:VAL:CG2	2.52	0.66
1:C:4924:VAL:O	1:C:4928:LEU:HD23	1.95	0.66
1:D:1122:TYR:HE1	1:D:1133:HIS:O	1.72	0.66
1:D:3108:GLU:O	1:D:3112:LEU:N	2.28	0.66
1:D:4784:PHE:O	1:D:4789:PHE:CE2	2.47	0.66
1:A:1117:ALA:HA	1:A:1134:LEU:CB	2.25	0.66
1:A:43:GLY:O	1:A:44:ASN:CB	2.44	0.66
1:A:4643:LEU:C	1:A:4643:LEU:HD12	2.15	0.66
1:B:1708:ARG:HG2	1:B:1712:TYR:HE2	1.59	0.66
1:C:67:PHE:O	1:C:110:ARG:O	2.13	0.66
1:C:2495:VAL:CB	1:C:2496:PRO:HD3	2.25	0.66
1:C:4927:ILE:HD12	1:C:4927:ILE:C	2.15	0.66
1:D:2767:ALA:CB	1:D:2855:TYR:O	2.30	0.66
1:D:243:ARG:O	1:D:300:VAL:HA	1.96	0.66
1:C:77:ALA:HB2	1:D:3935:TRP:CD1	2.30	0.66
1:D:4945:ASP:O	1:D:4948:GLU:HG3	1.96	0.66
1:D:4995:LEU:HD13	1:D:4995:LEU:C	2.16	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:5008:SER:O	1:D:5011:TRP:N	2.29	0.66
1:A:404:ILE:CB	1:A:478:PHE:CE1	2.78	0.66
1:A:4924:VAL:O	1:A:4928:LEU:HD23	1.95	0.66
1:A:644:ILE:O	1:A:781:VAL:N	2.24	0.66
1:B:243:ARG:O	1:B:300:VAL:HA	1.96	0.66
1:B:4147:LEU:C	1:B:4147:LEU:HD13	2.16	0.66
1:C:112:ALA:N	1:C:113:HIS:C	2.44	0.66
1:C:3984:ARG:O	1:C:3984:ARG:HD2	1.95	0.66
1:D:4687:TYR:CA	1:D:4692:PRO:HD3	2.26	0.66
1:A:4696:ASP:CB	1:A:4697:VAL:HG13	2.25	0.65
1:B:1081:TYR:OH	1:B:1235:THR:N	2.21	0.65
1:B:5016:GLU:CB	1:B:5018:CYS:HB2	2.25	0.65
1:C:2240:CYS:O	1:C:2242:ILE:N	2.30	0.65
1:C:39:ALA:CB	1:C:47:CYS:CB	2.67	0.65
1:D:4656:LEU:HD13	1:D:4656:LEU:C	2.15	0.65
1:D:67:PHE:O	1:D:110:ARG:O	2.13	0.65
1:A:66:CYS:CB	1:A:111:HIS:HA	2.26	0.65
1:A:1601:MET:CB	1:A:1602:PRO:HA	2.25	0.65
1:A:4181:ILE:O	1:A:4182:GLU:CB	2.40	0.65
1:A:4930:ALA:HB1	1:B:4936:ILE:CG2	2.14	0.65
1:B:1244:GLN:O	1:B:1604:SER:HA	1.96	0.65
1:B:2102:VAL:HA	1:B:2105:TRP:HD1	1.57	0.65
1:C:1244:GLN:O	1:C:1604:SER:HA	1.96	0.65
1:C:3108:GLU:O	1:C:3112:LEU:N	2.28	0.65
1:D:1290:ARG:CA	1:D:1551:ALA:HB2	2.19	0.65
1:D:1244:GLN:O	1:D:1604:SER:HA	1.96	0.65
1:D:3945:GLU:O	1:D:3947:GLY:N	2.29	0.65
1:D:4243:PHE:CD2	1:D:4671:PHE:CZ	2.51	0.65
1:D:4995:LEU:HD12	1:D:5011:TRP:CZ3	2.25	0.65
1:D:788:LYS:CB	1:D:1629:GLN:CA	2.74	0.65
1:A:176:SER:HA	1:A:177:GLU:CB	2.27	0.65
1:A:308:HIS:O	1:A:312:THR:HA	1.96	0.65
1:A:3986:TRP:N	1:A:3987:ASP:CB	2.60	0.65
1:A:4927:ILE:O	1:A:4931:ILE:HD13	1.96	0.65
1:B:404:ILE:CB	1:B:478:PHE:CE1	2.78	0.65
1:B:4687:TYR:CA	1:B:4692:PRO:HD3	2.26	0.65
1:B:4192:ARG:NH1	1:B:5028:PHE:HD2	1.94	0.65
1:C:1087:ARG:HA	1:C:1154:ASP:HA	1.79	0.65
1:C:1164:LEU:C	1:C:1166:GLY:H	2.00	0.65
1:C:2449:GLU:O	1:C:2450:ALA:CB	2.36	0.65
1:C:2506:LEU:O	1:C:2510:TYR:N	2.26	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3986:TRP:N	1:C:3987:ASP:CB	2.60	0.65
1:C:788:LYS:CB	1:C:1629:GLN:CA	2.74	0.65
1:A:4696:ASP:CA	1:A:4697:VAL:CG1	2.71	0.65
1:A:788:LYS:CB	1:A:1629:GLN:CA	2.74	0.65
1:B:308:HIS:O	1:B:312:THR:HA	1.96	0.65
1:B:4784:PHE:C	1:B:4789:PHE:CE2	2.59	0.65
1:C:4147:LEU:HD13	1:C:4147:LEU:C	2.16	0.65
1:C:4800:LEU:HD23	1:C:4800:LEU:C	2.15	0.65
1:D:1087:ARG:HA	1:D:1154:ASP:HA	1.79	0.65
1:A:1708:ARG:HG2	1:A:1712:TYR:HE2	1.59	0.65
1:B:4195:PHE:CZ	1:B:4991:PHE:CB	2.65	0.65
1:B:4934:GLY:O	1:B:4938:ASP:N	2.24	0.65
1:C:3419:ASN:O	1:C:3423:TRP:CB	2.44	0.65
1:C:4995:LEU:C	1:C:4995:LEU:HD13	2.16	0.65
1:D:4147:LEU:C	1:D:4147:LEU:HD13	2.16	0.65
1:D:4943:LEU:C	1:D:4943:LEU:HD13	2.15	0.65
1:A:2240:CYS:O	1:A:2242:ILE:N	2.30	0.65
1:A:3757:GLU:CB	1:A:4719:PHE:CE2	2.80	0.65
1:A:4193:ILE:HG22	1:A:4194:TYR:N	2.12	0.65
1:B:1164:LEU:C	1:B:1166:GLY:H	2.00	0.65
1:B:4192:ARG:HG3	1:B:4192:ARG:O	1.95	0.65
1:B:4927:ILE:HD11	1:B:4928:LEU:HD22	1.79	0.65
1:B:4943:LEU:C	1:B:4943:LEU:HD13	2.16	0.65
1:C:4921:PHE:O	1:C:4925:ILE:HD13	1.94	0.65
1:D:4192:ARG:NH1	1:D:5028:PHE:HD2	1.94	0.65
1:A:1272:LEU:HA	1:A:1273:ALA:HB3	1.78	0.65
1:B:789:VAL:C	1:B:1627:ALA:HB1	2.16	0.65
1:B:39:ALA:HA	1:B:47:CYS:HA	1.78	0.65
1:B:5010:VAL:HG23	1:B:5011:TRP:N	2.10	0.65
1:C:2211:MET:O	1:C:2215:LEU:N	2.27	0.65
1:C:4687:TYR:CA	1:C:4692:PRO:HD3	2.26	0.65
1:C:4705:VAL:O	1:C:4707:ASN:N	2.30	0.65
1:D:3986:TRP:N	1:D:3987:ASP:CB	2.60	0.65
1:A:1244:GLN:O	1:A:1604:SER:HA	1.96	0.65
1:A:4705:VAL:O	1:A:4707:ASN:N	2.30	0.65
1:A:39:ALA:CB	1:A:47:CYS:CB	2.67	0.65
1:B:3108:GLU:O	1:B:3112:LEU:N	2.28	0.65
1:B:4930:ALA:HB1	1:C:4936:ILE:CD1	2.26	0.65
1:C:4696:ASP:CA	1:C:4697:VAL:CG1	2.71	0.65
1:D:2506:LEU:O	1:D:2510:TYR:N	2.26	0.65
1:A:1087:ARG:HA	1:A:1154:ASP:HA	1.79	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:788:LYS:CB	1:B:1629:GLN:CA	2.74	0.65
1:C:4182:GLU:OE2	1:C:4988:TYR:CB	2.43	0.65
1:D:176:SER:HA	1:D:177:GLU:CB	2.27	0.65
1:A:4937:ILE:HD13	1:D:4934:GLY:CA	1.98	0.65
1:D:66:CYS:CB	1:D:111:HIS:HA	2.26	0.65
1:A:243:ARG:O	1:A:300:VAL:HA	1.96	0.65
1:A:4192:ARG:O	1:A:4192:ARG:HG3	1.95	0.65
1:A:5016:GLU:CB	1:A:5018:CYS:HB2	2.25	0.65
1:B:1124:PHE:HE2	1:B:1162:PHE:CD2	2.15	0.65
1:B:43:GLY:O	1:B:44:ASN:CB	2.44	0.65
1:B:66:CYS:CB	1:B:111:HIS:HA	2.26	0.65
1:C:66:CYS:CB	1:C:111:HIS:HA	2.26	0.65
1:C:4233:LEU:O	1:C:4236:SER:OG	2.15	0.65
1:D:1124:PHE:HE2	1:D:1162:PHE:CD2	2.15	0.65
1:D:2240:CYS:O	1:D:2242:ILE:N	2.30	0.65
1:D:3757:GLU:CB	1:D:4719:PHE:CE2	2.80	0.65
1:D:39:ALA:HA	1:D:47:CYS:HA	1.78	0.65
1:A:4927:ILE:HD11	1:A:4928:LEU:HD22	1.79	0.64
1:B:3986:TRP:N	1:B:3987:ASP:CB	2.60	0.64
1:B:4222:VAL:CB	1:B:4950:VAL:CG2	2.74	0.64
1:C:1203:ASN:CB	1:C:1204:LEU:CB	2.76	0.64
1:C:1290:ARG:O	1:C:1551:ALA:HB1	1.97	0.64
1:C:4673:ARG:CB	1:C:4673:ARG:HH11	2.04	0.64
1:A:3061:ALA:C	1:A:3064:VAL:CA	2.63	0.64
1:A:686:TRP:N	1:A:712:TYR:O	2.28	0.64
1:A:790:ARG:N	1:A:1627:ALA:CB	2.60	0.64
1:B:1203:ASN:CB	1:B:1204:LEU:CB	2.76	0.64
1:B:176:SER:HA	1:B:177:GLU:CB	2.27	0.64
1:B:2240:CYS:O	1:B:2242:ILE:N	2.30	0.64
1:C:1124:PHE:HE2	1:C:1162:PHE:CD2	2.15	0.64
1:C:39:ALA:HA	1:C:47:CYS:HA	1.78	0.64
1:C:4181:ILE:O	1:C:4182:GLU:CB	2.40	0.64
1:C:790:ARG:N	1:C:1627:ALA:CB	2.60	0.64
1:A:4834:GLY:CA	1:A:4837:LEU:HB3	2.26	0.64
1:B:4180:ARG:HA	1:B:4181:ILE:CG1	2.28	0.64
1:B:4197:ILE:HD11	1:B:4990:PHE:CG	2.33	0.64
1:B:41:GLY:O	1:B:44:ASN:O	2.15	0.64
1:C:3757:GLU:CB	1:C:4719:PHE:CE2	2.80	0.64
1:C:4173:TYR:O	1:C:4176:PRO:HD2	1.97	0.64
1:D:4927:ILE:O	1:D:4931:ILE:HD13	1.96	0.64
1:A:2592:GLY:H	1:A:2595:LEU:N	1.92	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:5017:ARG:CD	1:A:5019:TRP:HZ2	2.11	0.64
1:C:4197:ILE:HD11	1:C:4990:PHE:CG	2.33	0.64
1:A:41:GLY:O	1:A:44:ASN:O	2.15	0.64
1:A:4556:SER:OG	1:A:4557:ARG:N	2.26	0.64
1:A:4687:TYR:CA	1:A:4692:PRO:HD3	2.26	0.64
1:B:1272:LEU:HA	1:B:1273:ALA:HB3	1.78	0.64
1:B:3757:GLU:CB	1:B:4719:PHE:CE2	2.80	0.64
1:B:4233:LEU:O	1:B:4236:SER:OG	2.15	0.64
1:C:176:SER:HA	1:C:177:GLU:CB	2.27	0.64
1:C:4180:ARG:HA	1:C:4181:ILE:CG1	2.28	0.64
1:D:1203:ASN:CB	1:D:1204:LEU:CB	2.75	0.64
1:D:1708:ARG:HG2	1:D:1712:TYR:HE2	1.59	0.64
1:A:1124:PHE:HE2	1:A:1162:PHE:CD2	2.15	0.64
1:A:4088:ILE:CB	1:A:4093:PHE:HB2	2.28	0.64
1:A:4653:VAL:C	1:A:4657:CYS:HG	1.97	0.64
1:B:4239:GLU:O	1:B:4242:ILE:N	2.31	0.64
1:C:5010:VAL:HG23	1:C:5011:TRP:N	2.10	0.64
1:C:4192:ARG:NH1	1:C:5028:PHE:HD2	1.94	0.64
1:A:1203:ASN:CB	1:A:1204:LEU:CB	2.76	0.64
1:A:1290:ARG:CA	1:A:1551:ALA:HB2	2.19	0.64
1:A:3166:TYR:O	1:A:3169:LEU:CB	2.46	0.64
1:A:3833:GLN:HE21	1:A:3833:GLN:C	2.01	0.64
1:A:4036:VAL:O	1:A:4153:HIS:CD2	2.51	0.64
1:A:4577:LEU:O	1:A:4577:LEU:HD23	1.98	0.64
1:B:2342:ASN:CB	1:B:2343:GLY:HA2	2.28	0.64
1:B:2767:ALA:CB	1:B:2855:TYR:O	2.30	0.64
1:B:4927:ILE:O	1:B:4931:ILE:HD13	1.96	0.64
1:B:4935:LEU:HD23	1:C:4940:PHE:CE2	2.28	0.64
1:B:5017:ARG:CD	1:B:5019:TRP:HZ2	2.11	0.64
1:C:1272:LEU:HA	1:C:1273:ALA:HB3	1.79	0.64
1:C:77:ALA:CB	1:D:3935:TRP:CD1	2.75	0.64
1:D:2342:ASN:CB	1:D:2343:GLY:HA2	2.28	0.64
1:D:4173:TYR:O	1:D:4176:PRO:HD2	1.97	0.64
1:D:4193:ILE:HG22	1:D:4194:TYR:N	2.12	0.64
1:D:4239:GLU:O	1:D:4242:ILE:N	2.31	0.64
1:D:4577:LEU:O	1:D:4577:LEU:HD23	1.98	0.64
1:D:4705:VAL:O	1:D:4707:ASN:N	2.30	0.64
1:A:4180:ARG:HA	1:A:4181:ILE:CB	2.28	0.64
1:A:4180:ARG:N	1:A:4181:ILE:HD13	2.10	0.64
1:B:1087:ARG:HA	1:B:1154:ASP:HA	1.79	0.64
1:B:1290:ARG:O	1:B:1551:ALA:HB1	1.97	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:4705:VAL:O	1:B:4707:ASN:N	2.30	0.64
1:B:790:ARG:N	1:B:1627:ALA:CB	2.60	0.64
1:C:3061:ALA:C	1:C:3064:VAL:CA	2.63	0.64
1:C:4193:ILE:HG22	1:C:4194:TYR:N	2.12	0.64
1:C:4885:PHE:O	1:C:4889:VAL:HG13	1.98	0.64
1:D:1164:LEU:C	1:D:1166:GLY:H	2.00	0.64
1:D:1707:LEU:O	1:D:1711:TYR:HD1	1.81	0.64
1:D:3166:TYR:O	1:D:3169:LEU:CB	2.46	0.64
1:D:4180:ARG:HA	1:D:4181:ILE:CG1	2.28	0.64
1:D:4197:ILE:HD11	1:D:4990:PHE:CG	2.33	0.64
1:D:4885:PHE:O	1:D:4889:VAL:HG13	1.98	0.64
1:A:1164:LEU:C	1:A:1166:GLY:H	2.00	0.64
1:A:4820:VAL:O	1:A:4824:ARG:N	2.30	0.64
1:B:3166:TYR:O	1:B:3169:LEU:CB	2.46	0.64
1:C:3166:TYR:O	1:C:3169:LEU:CB	2.46	0.64
1:C:4927:ILE:HD11	1:C:4928:LEU:HD22	1.79	0.64
1:D:2274:ASP:CA	1:D:2277:ALA:H	1.91	0.64
1:D:3833:GLN:C	1:D:3833:GLN:HE21	2.01	0.64
1:D:4696:ASP:CA	1:D:4697:VAL:CG1	2.71	0.64
1:D:665:GLU:O	1:D:792:LEU:N	2.31	0.64
1:A:2342:ASN:CB	1:A:2343:GLY:HA2	2.28	0.64
1:A:4173:TYR:O	1:A:4176:PRO:HD2	1.97	0.64
1:A:4180:ARG:HA	1:A:4181:ILE:CG1	2.28	0.64
1:A:4918:ILE:HG23	1:A:4919:THR:N	2.13	0.64
1:B:242:ARG:O	1:B:300:VAL:C	2.37	0.64
1:B:4036:VAL:O	1:B:4153:HIS:CD2	2.51	0.64
1:B:4173:TYR:O	1:B:4176:PRO:HD2	1.97	0.64
1:B:4820:VAL:O	1:B:4824:ARG:N	2.30	0.64
1:B:665:GLU:O	1:B:792:LEU:N	2.31	0.64
1:C:2342:ASN:CB	1:C:2343:GLY:HA2	2.28	0.64
1:C:596:ASN:C	1:C:598:LYS:H	2.01	0.64
1:D:1272:LEU:HA	1:D:1273:ALA:HB3	1.78	0.64
1:D:3933:PHE:CE1	1:D:3951:PHE:HD2	2.02	0.64
1:D:4180:ARG:HA	1:D:4181:ILE:CB	2.28	0.64
1:D:41:GLY:O	1:D:44:ASN:O	2.15	0.64
1:A:5017:ARG:HD3	1:A:5019:TRP:HZ2	1.64	0.63
1:B:1719:HIS:N	1:B:1720:LEU:HA	2.13	0.63
1:B:3833:GLN:C	1:B:3833:GLN:HE21	2.01	0.63
1:B:4918:ILE:HG23	1:B:4919:THR:N	2.13	0.63
1:C:73:LEU:H	1:C:106:ALA:H	1.46	0.63
1:C:1719:HIS:N	1:C:1720:LEU:HA	2.13	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1130:GLN:HA	1:D:1137:GLU:O	1.98	0.63
1:A:2501:SER:O	1:A:2505:PHE:N	2.28	0.63
1:A:39:ALA:HA	1:A:47:CYS:HA	1.78	0.63
1:A:4971:THR:HG23	1:A:4974:GLY:CA	2.17	0.63
1:C:1707:LEU:O	1:C:1711:TYR:HD1	1.81	0.63
1:C:3378:GLN:O	1:C:3381:LEU:N	2.32	0.63
1:C:41:GLY:O	1:C:44:ASN:O	2.15	0.63
1:C:4927:ILE:O	1:C:4931:ILE:HD13	1.96	0.63
1:D:242:ARG:O	1:D:300:VAL:C	2.37	0.63
1:D:4696:ASP:CA	1:D:4697:VAL:CG2	2.52	0.63
1:D:5017:ARG:CD	1:D:5019:TRP:HZ2	2.11	0.63
1:A:2121:PHE:CE2	1:A:3702:VAL:CB	2.75	0.63
1:A:4968:PHE:HD2	1:A:4978:HIS:CB	2.11	0.63
1:B:4088:ILE:CB	1:B:4093:PHE:HB2	2.28	0.63
1:B:4180:ARG:HA	1:B:4181:ILE:CB	2.28	0.63
1:C:118:LEU:CA	1:C:137:LEU:HA	2.25	0.63
1:C:242:ARG:O	1:C:300:VAL:C	2.37	0.63
1:A:3061:ALA:O	1:A:3064:VAL:C	2.37	0.63
1:A:4701:TRP:CH2	1:A:4781:GLY:C	2.72	0.63
1:B:4193:ILE:HG22	1:B:4194:TYR:N	2.12	0.63
1:B:4885:PHE:O	1:B:4889:VAL:HG13	1.98	0.63
1:C:4985:LEU:O	1:C:4988:TYR:N	2.32	0.63
1:D:73:LEU:H	1:D:106:ALA:H	1.46	0.63
1:D:1719:HIS:N	1:D:1720:LEU:HA	2.13	0.63
1:D:4088:ILE:CB	1:D:4093:PHE:HB2	2.28	0.63
1:D:4927:ILE:HD11	1:D:4928:LEU:HD22	1.78	0.63
1:A:1719:HIS:N	1:A:1720:LEU:HA	2.13	0.63
1:B:4577:LEU:O	1:B:4577:LEU:HD23	1.98	0.63
1:B:4656:LEU:HD13	1:B:4657:CYS:N	2.14	0.63
1:B:4783:ILE:HD11	1:B:4789:PHE:CD1	2.33	0.63
1:C:4780:PHE:O	1:C:4783:ILE:HG23	1.99	0.63
1:C:4944:ARG:C	1:C:4944:ARG:HD2	2.19	0.63
1:D:2777:TYR:H	1:D:2854:GLY:HA2	1.64	0.63
1:D:25:SER:O	1:D:33:LEU:O	2.17	0.63
1:D:4701:TRP:CH2	1:D:4781:GLY:C	2.72	0.63
1:D:4783:ILE:HD11	1:D:4789:PHE:CD1	2.33	0.63
1:D:4222:VAL:CB	1:D:4950:VAL:CG2	2.76	0.63
1:B:4780:PHE:O	1:B:4783:ILE:HG23	1.99	0.63
1:C:4243:PHE:O	1:C:4243:PHE:HD1	1.82	0.63
1:D:1290:ARG:O	1:D:1551:ALA:HB1	1.97	0.63
1:D:4036:VAL:O	1:D:4153:HIS:CD2	2.51	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:4985:LEU:O	1:D:4988:TYR:N	2.32	0.63
1:A:2449:GLU:O	1:A:2450:ALA:CB	2.36	0.63
1:A:4728:HIS:O	1:A:4737:ILE:CD1	2.46	0.63
1:B:596:ASN:C	1:B:598:LYS:H	2.01	0.63
1:C:4036:VAL:O	1:C:4153:HIS:CD2	2.51	0.63
1:D:790:ARG:N	1:D:1627:ALA:CB	2.60	0.63
1:A:1290:ARG:O	1:A:1551:ALA:HB1	1.97	0.63
1:A:1707:LEU:O	1:A:1711:TYR:HD1	1.81	0.63
1:A:4970:THR:HG22	1:A:4970:THR:O	1.98	0.63
1:B:4181:ILE:O	1:B:4182:GLU:CB	2.40	0.63
1:C:4180:ARG:HA	1:C:4181:ILE:CB	2.28	0.63
1:C:4239:GLU:O	1:C:4242:ILE:N	2.31	0.63
1:C:4970:THR:O	1:C:4970:THR:HG22	1.98	0.63
1:C:665:GLU:O	1:C:792:LEU:N	2.31	0.63
1:A:3378:GLN:O	1:A:3381:LEU:N	2.32	0.63
1:A:4239:GLU:O	1:A:4242:ILE:N	2.31	0.63
1:B:1130:GLN:HA	1:B:1137:GLU:O	1.98	0.63
1:B:2546:MET:O	1:B:2550:LEU:N	2.31	0.63
1:B:4217:PHE:CB	1:B:4237:PHE:CE2	2.82	0.63
1:C:3986:TRP:H	1:C:3987:ASP:CB	2.12	0.63
1:C:4820:VAL:O	1:C:4824:ARG:N	2.30	0.63
1:C:5017:ARG:CD	1:C:5019:TRP:HZ2	2.11	0.63
1:D:2546:MET:O	1:D:2550:LEU:N	2.32	0.63
1:D:3378:GLN:O	1:D:3381:LEU:N	2.32	0.63
1:D:4656:LEU:HD13	1:D:4657:CYS:N	2.14	0.63
1:D:4685:GLY:C	1:D:4689:THR:H	2.03	0.63
1:D:4918:ILE:HG23	1:D:4919:THR:N	2.13	0.63
1:A:1124:PHE:CA	1:A:1131:ARG:CA	2.52	0.62
1:A:4197:ILE:HD11	1:A:4990:PHE:CG	2.34	0.62
1:A:509:GLU:C	1:A:511:ALA:N	2.52	0.62
1:B:4653:VAL:C	1:B:4657:CYS:HG	1.98	0.62
1:C:2677:LYS:O	1:C:2681:GLY:N	2.30	0.62
1:C:4088:ILE:CB	1:C:4093:PHE:HB2	2.28	0.62
1:C:4918:ILE:HG23	1:C:4919:THR:N	2.13	0.62
1:D:4217:PHE:CB	1:D:4237:PHE:CE2	2.82	0.62
1:D:4970:THR:HG22	1:D:4970:THR:O	1.98	0.62
1:D:4235:VAL:HG22	1:D:5019:TRP:HZ3	1.52	0.62
1:D:790:ARG:N	1:D:1627:ALA:HB1	2.14	0.62
1:A:2677:LYS:O	1:A:2681:GLY:N	2.30	0.62
1:A:4685:GLY:C	1:A:4689:THR:H	2.03	0.62
1:A:4885:PHE:O	1:A:4889:VAL:HG13	1.98	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4927:ILE:HG13	1:A:4928:LEU:HD23	1.81	0.62
1:A:4197:ILE:HD11	1:A:4990:PHE:CE2	2.33	0.62
1:B:3766:GLN:HA	1:B:3769:ARG:NH2	2.15	0.62
1:B:3823:LYS:C	1:B:3825:GLU:N	2.43	0.62
1:B:4968:PHE:HD2	1:B:4978:HIS:CB	2.11	0.62
1:B:4970:THR:O	1:B:4970:THR:HG22	1.98	0.62
1:B:5017:ARG:HD3	1:B:5019:TRP:HZ2	1.64	0.62
1:B:790:ARG:N	1:B:1627:ALA:HB1	2.14	0.62
1:C:4784:PHE:O	1:C:4789:PHE:CE2	2.47	0.62
1:A:4233:LEU:O	1:A:4236:SER:OG	2.15	0.62
1:A:4783:ILE:HD11	1:A:4789:PHE:CD1	2.33	0.62
1:A:4784:PHE:O	1:A:4789:PHE:CE2	2.47	0.62
1:B:3945:GLU:O	1:B:3947:GLY:N	2.29	0.62
1:B:3986:TRP:H	1:B:3987:ASP:CB	2.12	0.62
1:C:3833:GLN:C	1:C:3833:GLN:HE21	2.01	0.62
1:C:4217:PHE:CB	1:C:4237:PHE:CE2	2.82	0.62
1:C:5019:TRP:N	1:C:5019:TRP:CD1	2.67	0.62
1:D:2501:SER:O	1:D:2505:PHE:N	2.28	0.62
1:D:3986:TRP:H	1:D:3987:ASP:CB	2.11	0.62
1:D:5017:ARG:HD3	1:D:5019:TRP:HZ2	1.64	0.62
1:A:242:ARG:O	1:A:300:VAL:C	2.37	0.62
1:A:483:MET:O	1:A:485:SER:N	2.33	0.62
1:B:1707:LEU:O	1:B:1711:TYR:HD1	1.81	0.62
1:B:2777:TYR:H	1:B:2854:GLY:HA2	1.64	0.62
1:C:1081:TYR:OH	1:C:1235:THR:N	2.21	0.62
1:C:3758:MET:O	1:C:3759:GLU:C	2.38	0.62
1:C:4108:ILE:HD12	1:C:4109:GLN:N	2.15	0.62
1:C:4183:ILE:CG2	1:C:4190:ILE:C	2.68	0.62
1:C:4783:ILE:HD11	1:C:4789:PHE:CD1	2.33	0.62
1:D:4559:PHE:HD1	1:D:4560:TYR:CD1	1.97	0.62
1:A:2588:ARG:HA	1:A:2589:LEU:CB	2.29	0.62
1:A:4217:PHE:CB	1:A:4237:PHE:CE2	2.82	0.62
1:A:5016:GLU:CB	1:A:5017:ARG:C	2.68	0.62
1:A:665:GLU:O	1:A:792:LEU:N	2.31	0.62
1:B:38:ALA:O	1:B:47:CYS:CA	2.48	0.62
1:C:2546:MET:O	1:C:2550:LEU:N	2.31	0.62
1:D:4685:GLY:HA3	1:D:4689:THR:H	1.65	0.62
1:D:4235:VAL:CG2	1:D:5019:TRP:CE3	2.50	0.62
1:B:25:SER:O	1:B:33:LEU:O	2.17	0.62
1:C:1130:GLN:HA	1:C:1137:GLU:O	1.98	0.62
1:C:3766:GLN:HA	1:C:3769:ARG:NH2	2.15	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4115:SER:HA	1:C:4128:PHE:HZ	0.82	0.62
1:C:4577:LEU:HD23	1:C:4577:LEU:O	1.98	0.62
1:D:1821:ASP:C	1:D:1823:GLY:H	2.03	0.62
1:D:2121:PHE:O	1:D:3725:TYR:OH	2.17	0.62
1:D:643:SER:HA	1:D:782:SER:HA	1.82	0.62
1:A:3108:GLU:O	1:A:3112:LEU:N	2.28	0.62
1:A:4656:LEU:HD13	1:A:4657:CYS:N	2.14	0.62
1:A:4995:LEU:HD12	1:A:5011:TRP:CZ3	2.33	0.62
1:B:3758:MET:O	1:B:3759:GLU:C	2.38	0.62
1:B:4243:PHE:O	1:B:4243:PHE:HD1	1.82	0.62
1:B:4701:TRP:CH2	1:B:4781:GLY:C	2.72	0.62
1:C:4251:ILE:C	1:C:4553:ASN:HD22	2.03	0.62
1:C:4656:LEU:HD13	1:C:4657:CYS:N	2.14	0.62
1:C:490:CYS:O	1:C:493:ARG:N	2.33	0.62
1:C:4222:VAL:CB	1:C:4950:VAL:CG2	2.77	0.62
1:D:2588:ARG:HA	1:D:2589:LEU:CB	2.29	0.62
1:D:4780:PHE:O	1:D:4783:ILE:HG23	1.99	0.62
1:D:483:MET:O	1:D:485:SER:N	2.33	0.62
1:D:5017:ARG:CB	1:D:5019:TRP:NE1	2.61	0.62
1:A:1130:GLN:HA	1:A:1137:GLU:O	1.98	0.62
1:A:2777:TYR:H	1:A:2854:GLY:HA2	1.64	0.62
1:A:25:SER:O	1:A:33:LEU:O	2.17	0.62
1:A:3758:MET:O	1:A:3759:GLU:C	2.38	0.62
1:A:3766:GLN:HA	1:A:3769:ARG:NH2	2.15	0.62
1:A:4115:SER:HA	1:A:4128:PHE:HZ	0.82	0.62
1:A:4183:ILE:CG2	1:A:4190:ILE:C	2.68	0.62
1:A:4181:ILE:HD11	1:A:4194:TYR:CA	2.30	0.62
1:A:4243:PHE:O	1:A:4243:PHE:HD1	1.82	0.62
1:B:1217:CYS:O	1:B:1221:GLU:CB	2.47	0.62
1:B:2588:ARG:HA	1:B:2589:LEU:CB	2.29	0.62
1:B:4927:ILE:HG13	1:B:4928:LEU:HD23	1.81	0.62
1:C:4190:ILE:O	1:C:4190:ILE:HG12	2.00	0.62
1:A:4108:ILE:HD12	1:A:4109:GLN:N	2.15	0.62
1:A:4251:ILE:C	1:A:4553:ASN:ND2	2.54	0.62
1:B:73:LEU:H	1:B:106:ALA:H	1.46	0.62
1:B:2755:ILE:O	1:B:2759:ALA:HB3	2.00	0.62
1:B:4985:LEU:O	1:B:4988:TYR:N	2.32	0.62
1:C:2588:ARG:HA	1:C:2589:LEU:CB	2.29	0.62
1:C:483:MET:O	1:C:485:SER:N	2.33	0.62
1:D:4921:PHE:O	1:D:4925:ILE:HD13	1.94	0.62
1:D:4968:PHE:HD2	1:D:4978:HIS:CB	2.11	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1290:ARG:N	1:A:1551:ALA:CB	2.57	0.62
1:A:2755:ILE:O	1:A:2759:ALA:HB3	2.00	0.62
1:A:4780:PHE:O	1:A:4783:ILE:HG23	1.99	0.62
1:A:4944:ARG:HD2	1:A:4944:ARG:C	2.20	0.62
1:B:3061:ALA:C	1:B:3064:VAL:CA	2.63	0.62
1:B:3933:PHE:CE1	1:B:3951:PHE:HD2	2.02	0.62
1:B:4190:ILE:HG12	1:B:4190:ILE:O	2.00	0.62
1:B:4921:PHE:O	1:B:4925:ILE:HD13	1.94	0.62
1:C:38:ALA:O	1:C:47:CYS:CA	2.48	0.62
1:C:4931:ILE:O	1:C:4935:LEU:CG	2.40	0.62
1:C:5016:GLU:CB	1:C:5017:ARG:C	2.68	0.62
1:D:490:CYS:O	1:D:493:ARG:N	2.33	0.62
1:B:1803:PRO:O	1:B:1806:ALA:N	2.33	0.61
1:B:483:MET:O	1:B:485:SER:N	2.33	0.61
1:C:1217:CYS:O	1:C:1221:GLU:CB	2.47	0.61
1:C:1803:PRO:O	1:C:1806:ALA:N	2.33	0.61
1:C:1821:ASP:C	1:C:1823:GLY:H	2.03	0.61
1:C:2777:TYR:H	1:C:2854:GLY:HA2	1.64	0.61
1:C:3834:ALA:O	1:C:3837:GLN:HB3	2.00	0.61
1:C:4966:ASP:C	1:C:4968:PHE:N	2.53	0.61
1:C:643:SER:HA	1:C:782:SER:HA	1.82	0.61
1:D:1217:CYS:O	1:D:1221:GLU:CB	2.48	0.61
1:D:4190:ILE:HG12	1:D:4190:ILE:O	2.00	0.61
1:D:4233:LEU:O	1:D:4236:SER:OG	2.15	0.61
1:D:4673:ARG:CB	1:D:4673:ARG:HH11	2.04	0.61
1:D:4687:TYR:H	1:D:4692:PRO:HD3	1.59	0.61
1:D:38:ALA:O	1:D:47:CYS:CA	2.48	0.61
1:D:4967:TYR:OH	1:D:5030:LYS:HA	2.00	0.61
1:A:1217:CYS:O	1:A:1221:GLU:CB	2.48	0.61
1:A:1803:PRO:O	1:A:1806:ALA:N	2.33	0.61
1:A:3986:TRP:H	1:A:3987:ASP:CB	2.12	0.61
1:B:838:HIS:O	1:B:1200:GLY:O	2.18	0.61
1:B:3378:GLN:O	1:B:3381:LEU:N	2.32	0.61
1:B:4195:PHE:HD1	1:B:4195:PHE:O	1.84	0.61
1:B:490:CYS:O	1:B:493:ARG:N	2.33	0.61
1:B:5016:GLU:CB	1:B:5017:ARG:C	2.68	0.61
1:B:4967:TYR:OH	1:B:5030:LYS:HA	2.00	0.61
1:C:25:SER:O	1:C:33:LEU:O	2.17	0.61
1:D:3834:ALA:O	1:D:3837:GLN:HB3	2.00	0.61
1:D:4108:ILE:HD12	1:D:4109:GLN:N	2.15	0.61
1:D:4795:TYR:OH	1:D:4813:LEU:CB	2.48	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:4927:ILE:HG13	1:D:4928:LEU:HD23	1.81	0.61
1:D:5016:GLU:CB	1:D:5017:ARG:C	2.68	0.61
1:A:73:LEU:H	1:A:106:ALA:H	1.46	0.61
1:A:2454:ARG:O	1:A:2454:ARG:HD2	2.00	0.61
1:B:4108:ILE:HD12	1:B:4109:GLN:N	2.15	0.61
1:B:4115:SER:HA	1:B:4128:PHE:HZ	0.82	0.61
1:C:4195:PHE:O	1:C:4195:PHE:HD1	1.84	0.61
1:C:5017:ARG:HD3	1:C:5019:TRP:HZ2	1.64	0.61
1:D:4183:ILE:CG2	1:D:4190:ILE:C	2.68	0.61
1:D:4570:ALA:CB	1:D:4813:LEU:CB	2.78	0.61
1:D:4820:VAL:O	1:D:4824:ARG:N	2.30	0.61
1:A:2546:MET:O	1:A:2550:LEU:N	2.31	0.61
1:A:4195:PHE:HD1	1:A:4195:PHE:O	1.84	0.61
1:A:596:ASN:C	1:A:598:LYS:H	2.01	0.61
1:B:701:GLY:N	1:B:1645:ASN:CB	2.64	0.61
1:B:4685:GLY:C	1:B:4689:THR:H	2.03	0.61
1:C:2145:SER:C	1:C:2147:SER:H	2.03	0.61
1:C:4251:ILE:C	1:C:4553:ASN:ND2	2.54	0.61
1:C:4572:ALA:O	1:C:4576:ILE:HG12	2.01	0.61
1:C:4685:GLY:C	1:C:4689:THR:H	2.03	0.61
1:C:4795:TYR:OH	1:C:4813:LEU:CB	2.48	0.61
1:D:4251:ILE:C	1:D:4553:ASN:ND2	2.54	0.61
1:A:4696:ASP:CA	1:A:4697:VAL:CG2	2.52	0.61
1:A:5017:ARG:CB	1:A:5019:TRP:NE1	2.61	0.61
1:B:4183:ILE:CG2	1:B:4190:ILE:C	2.68	0.61
1:B:4251:ILE:C	1:B:4553:ASN:HD22	2.03	0.61
1:C:701:GLY:N	1:C:1645:ASN:CB	2.64	0.61
1:C:4685:GLY:HA3	1:C:4689:THR:H	1.65	0.61
1:C:665:GLU:O	1:C:792:LEU:CA	2.48	0.61
1:C:790:ARG:N	1:C:1627:ALA:HB1	2.14	0.61
1:D:2454:ARG:O	1:D:2454:ARG:HD2	2.00	0.61
1:D:3766:GLN:HA	1:D:3769:ARG:NH2	2.15	0.61
1:D:4243:PHE:O	1:D:4243:PHE:HD1	1.82	0.61
1:D:5019:TRP:N	1:D:5019:TRP:CD1	2.67	0.61
1:A:3455:GLU:CB	1:A:3458:PHE:CB	2.79	0.61
1:A:4173:TYR:HD2	1:A:4174:PHE:CD1	2.19	0.61
1:A:4559:PHE:HD1	1:A:4560:TYR:CD1	1.97	0.61
1:A:490:CYS:O	1:A:493:ARG:N	2.33	0.61
1:B:4251:ILE:C	1:B:4553:ASN:ND2	2.54	0.61
1:B:509:GLU:C	1:B:511:ALA:N	2.52	0.61
1:B:665:GLU:O	1:B:792:LEU:CA	2.48	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2121:PHE:O	1:C:3725:TYR:OH	2.17	0.61
1:C:4687:TYR:H	1:C:4692:PRO:HD3	1.59	0.61
1:C:4570:ALA:CB	1:C:4813:LEU:CB	2.78	0.61
1:D:1803:PRO:O	1:D:1806:ALA:N	2.33	0.61
1:D:3758:MET:O	1:D:3759:GLU:C	2.38	0.61
1:D:4235:VAL:CG1	1:D:5019:TRP:HZ3	2.05	0.61
1:A:790:ARG:N	1:A:1627:ALA:HB1	2.14	0.61
1:A:3834:ALA:O	1:A:3837:GLN:HB3	2.00	0.61
1:A:38:ALA:O	1:A:47:CYS:CA	2.48	0.61
1:A:4685:GLY:HA3	1:A:4689:THR:H	1.65	0.61
1:B:3455:GLU:CB	1:B:3458:PHE:CB	2.79	0.61
1:C:2586:VAL:CA	1:C:2587:TYR:CB	2.71	0.61
1:D:2677:LYS:O	1:D:2681:GLY:N	2.30	0.61
1:D:2755:ILE:O	1:D:2759:ALA:HB3	2.00	0.61
1:D:4173:TYR:HD2	1:D:4174:PHE:CD1	2.19	0.61
1:C:4918:ILE:CB	1:D:4891:VAL:HG21	2.30	0.61
1:B:2454:ARG:HD2	1:B:2454:ARG:O	2.00	0.61
1:C:4701:TRP:CH2	1:C:4781:GLY:C	2.72	0.61
1:C:4934:GLY:CA	1:D:4937:ILE:HD11	2.30	0.61
1:D:4115:SER:HA	1:D:4128:PHE:HZ	0.82	0.61
1:D:4195:PHE:O	1:D:4195:PHE:HD1	1.84	0.61
1:D:4251:ILE:C	1:D:4553:ASN:HD22	2.03	0.61
1:D:4572:ALA:O	1:D:4576:ILE:HG12	2.00	0.61
1:D:39:ALA:HB2	1:D:47:CYS:CA	2.31	0.61
1:D:665:GLU:O	1:D:792:LEU:CA	2.48	0.61
1:A:111:HIS:C	1:A:113:HIS:O	2.37	0.61
1:A:701:GLY:N	1:A:1645:ASN:CB	2.64	0.61
1:A:3986:TRP:HE1	1:A:4047:MET:CB	2.13	0.61
1:A:4795:TYR:OH	1:A:4813:LEU:CB	2.48	0.61
1:A:643:SER:HA	1:A:782:SER:HA	1.82	0.61
1:B:2677:LYS:O	1:B:2681:GLY:N	2.30	0.61
1:B:4570:ALA:CB	1:B:4813:LEU:CB	2.78	0.61
1:B:4862:PHE:O	1:B:4863:TYR:HB3	1.99	0.61
1:C:2755:ILE:O	1:C:2759:ALA:HB3	2.00	0.61
1:C:3455:GLU:CB	1:C:3458:PHE:CB	2.79	0.61
1:C:3962:PHE:CE2	1:C:4023:MET:CB	2.84	0.61
1:C:4927:ILE:HG13	1:C:4928:LEU:HD23	1.81	0.61
1:D:20:VAL:N	1:D:67:PHE:CB	2.64	0.61
1:D:2145:SER:C	1:D:2147:SER:H	2.03	0.61
1:D:4862:PHE:O	1:D:4863:TYR:HB3	1.99	0.61
1:A:39:ALA:HB2	1:A:47:CYS:CA	2.31	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4190:ILE:HG12	1:A:4190:ILE:O	2.00	0.61
1:A:4251:ILE:C	1:A:4553:ASN:HD22	2.03	0.61
1:B:1715:LEU:O	1:B:1719:HIS:CB	2.49	0.61
1:B:3833:GLN:NE2	1:B:3833:GLN:O	2.34	0.61
1:B:4572:ALA:O	1:B:4576:ILE:HG12	2.01	0.61
1:C:4968:PHE:HD2	1:C:4978:HIS:CB	2.11	0.61
1:D:3455:GLU:CB	1:D:3458:PHE:CB	2.79	0.61
1:A:3833:GLN:NE2	1:A:3833:GLN:O	2.34	0.60
1:A:4572:ALA:O	1:A:4576:ILE:HG12	2.01	0.60
1:A:4862:PHE:O	1:A:4863:TYR:HB3	1.99	0.60
1:B:3061:ALA:O	1:B:3064:VAL:C	2.37	0.60
1:B:3834:ALA:O	1:B:3837:GLN:HB3	2.00	0.60
1:B:4664:LEU:O	1:B:4667:PRO:HD2	2.01	0.60
1:B:5019:TRP:CD1	1:B:5019:TRP:N	2.67	0.60
1:C:842:PRO:O	1:C:1196:PRO:CB	2.49	0.60
1:C:1291:LEU:C	1:C:1600:LEU:CB	2.70	0.60
1:D:2121:PHE:CE2	1:D:3702:VAL:CB	2.75	0.60
1:D:3763:LEU:O	1:D:3763:LEU:HD23	2.00	0.60
1:D:4181:ILE:HD11	1:D:4194:TYR:CA	2.30	0.60
1:A:1291:LEU:C	1:A:1600:LEU:CB	2.70	0.60
1:A:3933:PHE:CE1	1:A:3951:PHE:HD2	2.02	0.60
1:A:4197:ILE:O	1:A:4197:ILE:HG23	2.02	0.60
1:B:20:VAL:N	1:B:67:PHE:CB	2.64	0.60
1:B:3763:LEU:O	1:B:3763:LEU:HD23	2.00	0.60
1:B:3962:PHE:CE2	1:B:4023:MET:CB	2.84	0.60
1:B:5031:GLN:C	1:B:5032:TYR:HD1	2.05	0.60
1:C:4857:ASN:C	1:C:4858:PHE:HD1	2.05	0.60
1:C:4862:PHE:O	1:C:4863:TYR:HB3	2.00	0.60
1:B:4918:ILE:CB	1:C:4891:VAL:HG21	2.31	0.60
1:C:5021:PHE:CD1	1:C:5022:PHE:N	2.70	0.60
1:C:509:GLU:C	1:C:511:ALA:N	2.52	0.60
1:D:701:GLY:N	1:D:1645:ASN:CB	2.64	0.60
1:D:3962:PHE:CE2	1:D:4023:MET:CB	2.84	0.60
1:D:4966:ASP:C	1:D:4968:PHE:N	2.53	0.60
1:A:1715:LEU:O	1:A:1719:HIS:CB	2.49	0.60
1:B:4173:TYR:HD2	1:B:4174:PHE:CD1	2.19	0.60
1:B:4181:ILE:HD11	1:B:4194:TYR:CA	2.30	0.60
1:B:4795:TYR:OH	1:B:4813:LEU:CB	2.48	0.60
1:C:4559:PHE:HD1	1:C:4560:TYR:CD1	1.97	0.60
1:D:1715:LEU:O	1:D:1719:HIS:CB	2.49	0.60
1:A:842:PRO:O	1:A:1196:PRO:CB	2.49	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:20:VAL:N	1:A:67:PHE:CB	2.64	0.60
1:A:4664:LEU:O	1:A:4667:PRO:HD2	2.01	0.60
1:B:1244:GLN:C	1:B:1604:SER:HA	2.22	0.60
1:B:2121:PHE:O	1:B:3725:TYR:OH	2.17	0.60
1:B:2443:ILE:CB	1:B:2444:GLN:HA	2.32	0.60
1:C:838:HIS:O	1:C:1200:GLY:O	2.18	0.60
1:D:509:GLU:C	1:D:511:ALA:N	2.52	0.60
1:A:838:HIS:O	1:A:1200:GLY:O	2.18	0.60
1:A:3763:LEU:O	1:A:3763:LEU:HD23	2.00	0.60
1:A:4243:PHE:CD2	1:A:4671:PHE:CD1	2.84	0.60
1:A:4931:ILE:O	1:A:4935:LEU:CG	2.40	0.60
1:A:4978:HIS:NE2	1:A:4983:HIS:CG	2.62	0.60
1:B:4197:ILE:HG23	1:B:4197:ILE:O	2.02	0.60
1:B:643:SER:HA	1:B:782:SER:HA	1.82	0.60
1:C:3933:PHE:CZ	1:C:3951:PHE:CE2	2.85	0.60
1:C:3986:TRP:HE1	1:C:4047:MET:CB	2.13	0.60
1:C:39:ALA:HB2	1:C:47:CYS:CA	2.31	0.60
1:C:4717:ASP:O	1:C:4718:LYS:CB	2.49	0.60
1:C:721:LEU:CB	1:C:728:ARG:C	2.70	0.60
1:D:1435:TYR:O	1:D:1436:SER:CB	2.50	0.60
1:D:1291:LEU:C	1:D:1600:LEU:CB	2.70	0.60
1:D:3933:PHE:CZ	1:D:3951:PHE:CE2	2.85	0.60
1:D:4717:ASP:O	1:D:4718:LYS:CB	2.49	0.60
1:D:644:ILE:O	1:D:781:VAL:N	2.24	0.60
1:A:1435:TYR:O	1:A:1436:SER:CB	2.50	0.60
1:A:3934:TYR:CE1	1:A:3935:TRP:CZ3	2.90	0.60
1:B:2121:PHE:CE2	1:B:3702:VAL:CB	2.75	0.60
1:C:1715:LEU:O	1:C:1719:HIS:CB	2.49	0.60
1:C:2454:ARG:HD2	1:C:2454:ARG:O	2.00	0.60
1:C:3763:LEU:O	1:C:3763:LEU:HD23	2.00	0.60
1:C:4208:PRO:HG2	1:C:4209:GLN:H	1.67	0.60
1:C:4664:LEU:O	1:C:4667:PRO:HD2	2.01	0.60
1:D:5021:PHE:CD1	1:D:5022:PHE:N	2.70	0.60
1:A:665:GLU:O	1:A:792:LEU:CA	2.48	0.60
1:B:39:ALA:HB2	1:B:47:CYS:CA	2.31	0.60
1:C:3966:THR:O	1:C:3970:GLN:N	2.35	0.60
1:D:118:LEU:CB	1:D:137:LEU:CB	2.80	0.60
1:B:4857:ASN:C	1:B:4858:PHE:HD1	2.05	0.60
1:B:5017:ARG:CB	1:B:5019:TRP:NE1	2.61	0.60
1:C:1244:GLN:C	1:C:1604:SER:HA	2.22	0.60
1:C:2443:ILE:CB	1:C:2444:GLN:HA	2.32	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3785:ALA:O	1:C:3786:CYS:C	2.40	0.60
1:C:4173:TYR:HD2	1:C:4174:PHE:CD1	2.19	0.60
1:C:482:GLY:O	1:C:485:SER:CB	2.50	0.60
1:C:4967:TYR:OH	1:C:5030:LYS:HA	2.00	0.60
1:D:3833:GLN:NE2	1:D:3833:GLN:O	2.34	0.60
1:D:3966:THR:O	1:D:3970:GLN:N	2.35	0.60
1:D:482:GLY:O	1:D:485:SER:CB	2.50	0.60
1:A:4638:TYR:O	1:A:4641:PRO:HG2	2.02	0.60
1:A:4985:LEU:O	1:A:4988:TYR:N	2.34	0.60
1:A:721:LEU:CB	1:A:728:ARG:C	2.70	0.60
1:B:1749:PRO:C	1:B:1751:GLY:N	2.53	0.60
1:B:1821:ASP:C	1:B:1823:GLY:H	2.03	0.60
1:B:38:ALA:C	1:B:47:CYS:CB	2.70	0.60
1:C:315:CYS:O	1:C:349:GLN:O	2.20	0.60
1:C:38:ALA:C	1:C:47:CYS:CB	2.70	0.60
1:D:4857:ASN:C	1:D:4858:PHE:HD1	2.05	0.60
1:D:4995:LEU:CD1	1:D:5011:TRP:HZ3	2.12	0.60
1:A:2443:ILE:CB	1:A:2444:GLN:HA	2.32	0.60
1:A:4208:PRO:HG2	1:A:4209:GLN:H	1.67	0.60
1:A:4644:TRP:CE3	1:A:4645:CYS:CA	2.85	0.60
1:A:4857:ASN:C	1:A:4858:PHE:HD1	2.05	0.60
1:B:1291:LEU:C	1:B:1600:LEU:CB	2.70	0.60
1:B:482:GLY:O	1:B:485:SER:CB	2.50	0.60
1:C:4832:HIS:HD1	1:C:4833:ASN:N	2.00	0.60
1:D:1081:TYR:OH	1:D:1235:THR:N	2.21	0.60
1:D:4728:HIS:O	1:D:4737:ILE:CD1	2.46	0.60
1:C:4930:ALA:HB1	1:D:4936:ILE:HD12	1.80	0.60
1:A:3962:PHE:CE2	1:A:4023:MET:CB	2.84	0.59
1:A:4967:TYR:OH	1:A:5030:LYS:HA	2.00	0.59
1:B:2501:SER:O	1:B:2505:PHE:N	2.28	0.59
1:B:4952:GLU:OE2	1:B:4953:ASP:N	2.35	0.59
1:B:4235:VAL:CB	1:B:5019:TRP:HZ3	2.04	0.59
1:B:5021:PHE:CD1	1:B:5022:PHE:N	2.70	0.59
1:C:1435:TYR:O	1:C:1436:SER:CB	2.50	0.59
1:C:3934:TYR:CE1	1:C:3935:TRP:CZ3	2.90	0.59
1:C:3945:GLU:O	1:C:3947:GLY:N	2.29	0.59
1:C:4237:PHE:O	1:C:4241:THR:OG1	2.20	0.59
1:D:4237:PHE:O	1:D:4241:THR:OG1	2.20	0.59
1:D:4685:GLY:CA	1:D:4689:THR:H	2.15	0.59
1:D:4738:ALA:HA	1:D:4742:GLY:CA	2.30	0.59
1:D:4978:HIS:O	1:D:4982:GLU:HA	2.02	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1244:GLN:C	1:A:1604:SER:HA	2.22	0.59
1:A:4237:PHE:O	1:A:4241:THR:OG1	2.20	0.59
1:A:4570:ALA:CB	1:A:4813:LEU:CB	2.78	0.59
1:A:4832:HIS:HD1	1:A:4833:ASN:N	2.00	0.59
1:A:512:ALA:O	1:A:515:TRP:HE3	1.85	0.59
1:B:842:PRO:O	1:B:1196:PRO:CB	2.49	0.59
1:B:3934:TYR:CE1	1:B:3935:TRP:CZ3	2.90	0.59
1:B:3986:TRP:HE1	1:B:4047:MET:CB	2.13	0.59
1:B:4559:PHE:HD1	1:B:4560:TYR:CD1	1.97	0.59
1:B:512:ALA:O	1:B:515:TRP:HE3	1.85	0.59
1:B:721:LEU:CB	1:B:728:ARG:C	2.70	0.59
1:C:118:LEU:CB	1:C:137:LEU:CB	2.80	0.59
1:C:4685:GLY:CA	1:C:4689:THR:H	2.15	0.59
1:D:842:PRO:O	1:D:1196:PRO:CB	2.49	0.59
1:D:315:CYS:O	1:D:349:GLN:O	2.20	0.59
1:D:4644:TRP:CE3	1:D:4645:CYS:CA	2.85	0.59
1:D:4667:PRO:O	1:D:4670:ILE:HG22	2.02	0.59
1:D:38:ALA:C	1:D:47:CYS:CB	2.70	0.59
1:A:315:CYS:O	1:A:349:GLN:O	2.20	0.59
1:A:3833:GLN:HE21	1:A:3833:GLN:HA	1.67	0.59
1:A:4089:SER:CB	1:A:4092:ASP:CB	2.80	0.59
1:A:4644:TRP:HE3	1:A:4645:CYS:N	2.00	0.59
1:A:4685:GLY:CA	1:A:4689:THR:H	2.15	0.59
1:A:4889:VAL:HG23	1:A:4890:GLY:N	2.18	0.59
1:A:4966:ASP:C	1:A:4968:PHE:N	2.53	0.59
1:A:5031:GLN:C	1:A:5032:TYR:HD1	2.05	0.59
1:B:1721:GLU:O	1:B:1722:SER:C	2.40	0.59
1:B:4685:GLY:HA3	1:B:4689:THR:H	1.65	0.59
1:B:4863:TYR:CG	1:B:4864:ASN:N	2.70	0.59
1:B:4885:PHE:CE1	1:B:4889:VAL:CG1	2.86	0.59
1:D:1287:LEU:CB	1:D:1553:PHE:CA	2.81	0.59
1:D:1721:GLU:O	1:D:1722:SER:C	2.40	0.59
1:D:3986:TRP:HE1	1:D:4047:MET:CB	2.13	0.59
1:D:4664:LEU:O	1:D:4667:PRO:HD2	2.01	0.59
1:D:512:ALA:O	1:D:515:TRP:HE3	1.85	0.59
1:D:721:LEU:CB	1:D:728:ARG:C	2.70	0.59
1:A:118:LEU:CB	1:A:137:LEU:CB	2.80	0.59
1:A:4863:TYR:CG	1:A:4864:ASN:N	2.70	0.59
1:B:118:LEU:CB	1:B:137:LEU:CB	2.80	0.59
1:B:3966:THR:O	1:B:3970:GLN:N	2.35	0.59
1:B:4995:LEU:HD11	1:B:5011:TRP:HE3	0.63	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1078:GLU:CB	1:C:1081:TYR:CE2	2.85	0.59
1:C:1721:GLU:O	1:C:1722:SER:C	2.40	0.59
1:C:3833:GLN:NE2	1:C:3833:GLN:O	2.34	0.59
1:D:1209:SER:O	1:D:1210:SER:C	2.39	0.59
1:D:1244:GLN:C	1:D:1604:SER:HA	2.22	0.59
1:D:3833:GLN:HE21	1:D:3833:GLN:HA	1.67	0.59
1:A:4154:VAL:HG12	1:A:4156:HIS:O	2.03	0.59
1:A:4667:PRO:O	1:A:4670:ILE:HG22	2.02	0.59
1:A:4978:HIS:O	1:A:4982:GLU:HA	2.02	0.59
1:A:5021:PHE:CD1	1:A:5022:PHE:N	2.70	0.59
1:B:4180:ARG:H	1:B:4181:ILE:CG1	2.15	0.59
1:B:4638:TYR:O	1:B:4641:PRO:HG2	2.02	0.59
1:A:4918:ILE:CB	1:B:4891:VAL:HG21	2.31	0.59
1:B:4978:HIS:O	1:B:4982:GLU:HA	2.02	0.59
1:B:829:TYR:O	1:B:839:LEU:HA	2.03	0.59
1:C:4667:PRO:O	1:C:4670:ILE:HG22	2.02	0.59
1:C:4934:GLY:N	1:D:4937:ILE:HD11	2.17	0.59
1:C:829:TYR:O	1:C:839:LEU:HA	2.03	0.59
1:D:838:HIS:O	1:D:1200:GLY:O	2.18	0.59
1:D:243:ARG:O	1:D:300:VAL:CA	2.51	0.59
1:D:2443:ILE:CB	1:D:2444:GLN:HA	2.32	0.59
1:A:1078:GLU:CB	1:A:1081:TYR:CE2	2.85	0.59
1:A:1821:ASP:C	1:A:1823:GLY:H	2.03	0.59
1:A:3785:ALA:O	1:A:3786:CYS:C	2.40	0.59
1:A:482:GLY:O	1:A:485:SER:CB	2.50	0.59
1:B:315:CYS:O	1:B:349:GLN:O	2.20	0.59
1:B:3987:ASP:CB	1:B:3988:ALA:HB2	2.33	0.59
1:C:635:THR:CA	1:C:1639:LEU:CB	2.81	0.59
1:C:4154:VAL:HG12	1:C:4156:HIS:O	2.03	0.59
1:C:4181:ILE:HD11	1:C:4194:TYR:CA	2.30	0.59
1:C:5031:GLN:C	1:C:5032:TYR:HD1	2.05	0.59
1:C:512:ALA:O	1:C:515:TRP:HE3	1.85	0.59
1:A:379:HIS:H	1:A:381:GLU:N	2.01	0.59
1:A:3966:THR:O	1:A:3970:GLN:N	2.35	0.59
1:A:3987:ASP:CB	1:A:3988:ALA:HB2	2.33	0.59
1:A:4940:PHE:CE2	1:D:4935:LEU:HD23	2.30	0.59
1:B:1435:TYR:O	1:B:1436:SER:CB	2.50	0.59
1:B:2538:THR:O	1:B:2540:THR:N	2.33	0.59
1:B:3785:ALA:O	1:B:3786:CYS:C	2.40	0.59
1:C:1287:LEU:CB	1:C:1553:PHE:CA	2.81	0.59
1:C:1451:GLY:O	1:C:1452:TRP:HD1	1.86	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3060:ASP:O	1:C:3064:VAL:C	2.41	0.59
1:C:4885:PHE:CE1	1:C:4889:VAL:CG1	2.85	0.59
1:D:3987:ASP:CB	1:D:3988:ALA:HB2	2.33	0.59
1:D:4089:SER:CB	1:D:4092:ASP:CB	2.80	0.59
1:D:4087:LEU:CB	1:D:4122:MET:HA	2.32	0.59
1:D:4954:MET:HE3	1:D:4954:MET:C	2.22	0.59
1:D:635:THR:CA	1:D:1639:LEU:CB	2.81	0.59
1:A:2538:THR:O	1:A:2540:THR:N	2.33	0.59
1:A:4087:LEU:CB	1:A:4122:MET:HA	2.32	0.59
1:A:5019:TRP:CD1	1:A:5019:TRP:N	2.67	0.59
1:B:4089:SER:CB	1:B:4092:ASP:CB	2.80	0.59
1:B:4644:TRP:CE3	1:B:4645:CYS:CA	2.85	0.59
1:C:4682:GLU:CB	1:C:4683:PHE:CD1	2.86	0.59
1:D:4181:ILE:O	1:D:4182:GLU:CB	2.40	0.59
1:D:4208:PRO:HG2	1:D:4209:GLN:H	1.67	0.59
1:D:596:ASN:C	1:D:598:LYS:H	2.01	0.59
1:A:3060:ASP:O	1:A:3064:VAL:C	2.41	0.59
1:B:4685:GLY:CA	1:B:4689:THR:H	2.15	0.59
1:B:4889:VAL:HG23	1:B:4890:GLY:N	2.18	0.59
1:C:243:ARG:O	1:C:300:VAL:CA	2.51	0.59
1:C:4089:SER:CB	1:C:4092:ASP:CB	2.80	0.59
1:C:4638:TYR:O	1:C:4641:PRO:HG2	2.02	0.59
1:C:4644:TRP:CE3	1:C:4645:CYS:CA	2.85	0.59
1:C:4243:PHE:CD2	1:C:4671:PHE:CD1	2.84	0.59
1:B:4930:ALA:CB	1:C:4936:ILE:HD13	2.33	0.59
1:C:667:MET:O	1:C:790:ARG:N	2.29	0.59
1:D:1078:GLU:CB	1:D:1081:TYR:CE2	2.85	0.59
1:D:4638:TYR:O	1:D:4641:PRO:HG2	2.02	0.59
1:D:4644:TRP:HE3	1:D:4645:CYS:N	2.00	0.59
1:D:4832:HIS:HD1	1:D:4833:ASN:N	2.00	0.59
1:D:4863:TYR:CG	1:D:4864:ASN:N	2.70	0.59
1:D:4952:GLU:OE2	1:D:4953:ASP:N	2.35	0.59
1:D:5031:GLN:C	1:D:5032:TYR:HD1	2.05	0.59
1:A:1721:GLU:O	1:A:1722:SER:C	2.40	0.59
1:A:243:ARG:O	1:A:300:VAL:CA	2.51	0.59
1:A:3935:TRP:HE3	1:A:3935:TRP:HA	1.68	0.59
1:A:4180:ARG:H	1:A:4181:ILE:CG1	2.15	0.59
1:B:4208:PRO:HG2	1:B:4209:GLN:H	1.67	0.59
1:B:4237:PHE:O	1:B:4241:THR:OG1	2.20	0.59
1:C:379:HIS:H	1:C:381:GLU:N	2.01	0.59
1:C:4180:ARG:H	1:C:4181:ILE:CG1	2.15	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4644:TRP:HE3	1:C:4645:CYS:N	2.00	0.59
1:C:4728:HIS:O	1:C:4737:ILE:CD1	2.46	0.59
1:C:4978:HIS:O	1:C:4982:GLU:HA	2.02	0.59
1:A:1287:LEU:CB	1:A:1553:PHE:CA	2.81	0.58
1:A:4235:VAL:CG1	1:A:5019:TRP:HZ3	2.05	0.58
1:A:4885:PHE:CE1	1:A:4889:VAL:CG1	2.85	0.58
1:C:4087:LEU:CB	1:C:4122:MET:HA	2.32	0.58
1:C:4927:ILE:CD1	1:C:4928:LEU:HD22	2.33	0.58
1:C:840:VAL:CB	1:C:1199:VAL:HA	2.33	0.58
1:D:1206:GLN:O	1:D:1209:SER:CB	2.51	0.58
1:D:2914:LYS:O	1:D:2917:ALA:HB3	2.03	0.58
1:D:3934:TYR:CE1	1:D:3935:TRP:CZ3	2.90	0.58
1:D:4885:PHE:CE1	1:D:4889:VAL:CG1	2.85	0.58
1:A:2767:ALA:O	1:A:2771:ILE:CB	2.51	0.58
1:A:3967:GLU:HA	1:A:3970:GLN:CB	2.33	0.58
1:A:3987:ASP:CB	1:A:3988:ALA:CB	2.81	0.58
1:A:38:ALA:C	1:A:47:CYS:CB	2.70	0.58
1:A:4952:GLU:OE2	1:A:4953:ASP:N	2.35	0.58
1:B:1287:LEU:CB	1:B:1553:PHE:CA	2.81	0.58
1:B:4087:LEU:CB	1:B:4122:MET:HA	2.32	0.58
1:B:498:THR:C	1:B:500:ALA:HA	2.24	0.58
1:C:1206:GLN:O	1:C:1209:SER:CB	2.51	0.58
1:C:4197:ILE:O	1:C:4197:ILE:HG23	2.02	0.58
1:C:498:THR:C	1:C:500:ALA:HA	2.24	0.58
1:D:1749:PRO:C	1:D:1751:GLY:N	2.53	0.58
1:D:2191:PHE:HD1	1:D:2192:TYR:HD1	1.50	0.58
1:D:4682:GLU:CB	1:D:4683:PHE:CD1	2.86	0.58
1:D:4738:ALA:O	1:D:4742:GLY:CA	2.51	0.58
1:D:4889:VAL:HG23	1:D:4890:GLY:N	2.18	0.58
1:A:4774:LYS:HA	1:A:4777:ILE:HG22	1.85	0.58
1:A:4829:SER:CB	1:A:4940:PHE:CE1	2.86	0.58
1:A:4940:PHE:CE2	1:D:4935:LEU:HD21	2.34	0.58
1:B:1739:THR:O	1:B:1742:THR:N	2.36	0.58
1:B:4667:PRO:O	1:B:4670:ILE:HG22	2.02	0.58
1:C:1124:PHE:HD1	1:C:1125:ASN:O	1.87	0.58
1:C:2914:LYS:O	1:C:2917:ALA:HB3	2.03	0.58
1:C:4776:GLN:CA	1:C:4776:GLN:HE21	2.00	0.58
1:D:2592:GLY:H	1:D:2595:LEU:N	1.92	0.58
1:D:4927:ILE:HD11	1:D:4928:LEU:CD2	2.33	0.58
1:A:1206:GLN:O	1:A:1209:SER:CB	2.51	0.58
1:A:4687:TYR:H	1:A:4692:PRO:HD3	1.59	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4717:ASP:O	1:A:4718:LYS:CB	2.49	0.58
1:A:4927:ILE:HD11	1:A:4928:LEU:CD2	2.33	0.58
1:B:1078:GLU:CB	1:B:1081:TYR:CE2	2.85	0.58
1:B:2767:ALA:O	1:B:2771:ILE:CB	2.51	0.58
1:B:3967:GLU:HA	1:B:3970:GLN:CB	2.33	0.58
1:B:3987:ASP:CB	1:B:3988:ALA:CB	2.81	0.58
1:B:4644:TRP:HE3	1:B:4645:CYS:N	2.00	0.58
1:A:4918:ILE:CB	1:B:4891:VAL:HG11	2.31	0.58
1:B:4927:ILE:HD11	1:B:4928:LEU:CD2	2.33	0.58
1:C:3987:ASP:CB	1:C:3988:ALA:HB2	2.33	0.58
1:D:840:VAL:CB	1:D:1199:VAL:HA	2.33	0.58
1:D:262:LEU:CB	1:D:263:GLU:CA	2.81	0.58
1:D:3060:ASP:O	1:D:3064:VAL:C	2.41	0.58
1:D:379:HIS:N	1:D:380:GLN:HA	2.18	0.58
1:D:4034:ASN:O	1:D:4153:HIS:HE1	1.87	0.58
1:D:4774:LYS:HA	1:D:4777:ILE:HG22	1.85	0.58
1:C:4918:ILE:CB	1:D:4891:VAL:HG11	2.31	0.58
1:A:789:VAL:O	1:A:1627:ALA:HA	2.03	0.58
1:A:2145:SER:C	1:A:2147:SER:H	2.03	0.58
1:A:4034:ASN:O	1:A:4153:HIS:HE1	1.87	0.58
1:B:1206:GLN:O	1:B:1209:SER:CB	2.51	0.58
1:B:1451:GLY:O	1:B:1452:TRP:HD1	1.86	0.58
1:B:379:HIS:N	1:B:380:GLN:HA	2.18	0.58
1:B:4682:GLU:CB	1:B:4683:PHE:CD1	2.86	0.58
1:B:4978:HIS:NE2	1:B:4983:HIS:CG	2.62	0.58
1:C:262:LEU:CB	1:C:263:GLU:CA	2.81	0.58
1:C:2767:ALA:O	1:C:2771:ILE:CB	2.51	0.58
1:C:5018:CYS:C	1:C:5019:TRP:CD1	2.77	0.58
1:D:1289:LEU:CB	1:D:1552:VAL:O	2.52	0.58
1:D:1739:THR:O	1:D:1742:THR:N	2.36	0.58
1:D:3785:ALA:O	1:D:3786:CYS:C	2.40	0.58
1:D:3987:ASP:CB	1:D:3988:ALA:CB	2.81	0.58
1:D:4180:ARG:H	1:D:4181:ILE:CG1	2.15	0.58
1:D:829:TYR:O	1:D:839:LEU:HA	2.03	0.58
1:A:3934:TYR:CE1	1:A:3935:TRP:HZ3	2.19	0.58
1:B:4738:ALA:O	1:B:4742:GLY:CA	2.51	0.58
1:B:4832:HIS:HD1	1:B:4833:ASN:N	2.00	0.58
1:B:4235:VAL:CG1	1:B:5019:TRP:HZ3	2.05	0.58
1:C:1289:LEU:CB	1:C:1552:VAL:O	2.52	0.58
1:C:3061:ALA:O	1:C:3064:VAL:C	2.37	0.58
1:D:4984:ASN:O	1:D:4986:ALA:N	2.36	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:667:MET:O	1:D:790:ARG:N	2.29	0.58
1:A:635:THR:CA	1:A:1639:LEU:CB	2.81	0.58
1:A:317:ARG:O	1:A:346:CYS:CB	2.52	0.58
1:A:3708:THR:C	1:A:3710:LEU:HA	2.24	0.58
1:A:4158:PRO:O	1:A:4159:ARG:C	2.40	0.58
1:A:4182:GLU:OE1	1:A:4988:TYR:HB2	2.03	0.58
1:A:4995:LEU:HD12	1:A:5011:TRP:CE3	2.30	0.58
1:B:317:ARG:O	1:B:346:CYS:CB	2.52	0.58
1:B:4183:ILE:CG2	1:B:4191:GLU:C	2.54	0.58
1:C:2501:SER:O	1:C:2505:PHE:N	2.28	0.58
1:C:4889:VAL:HG23	1:C:4890:GLY:N	2.18	0.58
1:D:1451:GLY:O	1:D:1452:TRP:HD1	1.86	0.58
1:D:379:HIS:H	1:D:381:GLU:N	2.01	0.58
1:D:4577:LEU:CD1	1:D:4807:PHE:HA	2.34	0.58
1:A:701:GLY:H	1:A:1645:ASN:C	2.07	0.58
1:B:243:ARG:O	1:B:300:VAL:CA	2.50	0.58
1:B:3060:ASP:O	1:B:3064:VAL:C	2.41	0.58
1:B:4154:VAL:HG12	1:B:4156:HIS:O	2.03	0.58
1:B:4728:HIS:O	1:B:4737:ILE:CD1	2.46	0.58
1:C:1074:ILE:HA	1:C:1193:SER:HA	1.85	0.58
1:C:1739:THR:O	1:C:1742:THR:N	2.36	0.58
1:C:4863:TYR:CG	1:C:4864:ASN:N	2.70	0.58
1:C:20:VAL:N	1:C:67:PHE:CB	2.64	0.58
1:D:3795:SER:HA	1:D:3880:PHE:HE2	1.69	0.58
1:D:4978:HIS:NE2	1:D:4983:HIS:CG	2.62	0.58
1:A:1209:SER:O	1:A:1210:SER:C	2.39	0.58
1:A:262:LEU:CB	1:A:263:GLU:CA	2.81	0.58
1:A:3795:SER:HA	1:A:3880:PHE:HE2	1.69	0.58
1:A:840:VAL:CB	1:A:1199:VAL:HA	2.33	0.58
1:B:1074:ILE:HA	1:B:1193:SER:HA	1.85	0.58
1:B:1289:LEU:CB	1:B:1552:VAL:O	2.52	0.58
1:B:2145:SER:C	1:B:2147:SER:H	2.03	0.58
1:A:4930:ALA:C	1:B:4936:ILE:HD13	2.24	0.58
1:B:701:GLY:H	1:B:1645:ASN:C	2.07	0.58
1:C:4927:ILE:HD11	1:C:4928:LEU:CD2	2.33	0.58
1:C:4984:ASN:O	1:C:4986:ALA:N	2.36	0.58
1:C:5017:ARG:CB	1:C:5019:TRP:NE1	2.61	0.58
1:D:112:ALA:HA	1:D:115:ARG:N	2.17	0.58
1:D:2105:TRP:CE3	1:D:2106:ALA:CA	2.87	0.58
1:D:2767:ALA:O	1:D:2771:ILE:CB	2.51	0.58
1:D:4197:ILE:HG23	1:D:4197:ILE:O	2.02	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:4927:ILE:CD1	1:D:4928:LEU:HD22	2.33	0.58
1:A:1451:GLY:O	1:A:1452:TRP:HD1	1.86	0.58
1:A:1739:THR:O	1:A:1742:THR:N	2.36	0.58
1:A:1749:PRO:C	1:A:1751:GLY:N	2.53	0.58
1:A:263:GLU:O	1:A:280:LEU:CB	2.52	0.58
1:A:2914:LYS:O	1:A:2917:ALA:HB3	2.03	0.58
1:A:4577:LEU:CD1	1:A:4807:PHE:HA	2.34	0.58
1:A:4682:GLU:CB	1:A:4683:PHE:CD1	2.86	0.58
1:A:4773:VAL:O	1:A:4776:GLN:N	2.37	0.58
1:B:840:VAL:CB	1:B:1199:VAL:HA	2.33	0.58
1:B:3708:THR:C	1:B:3710:LEU:HA	2.24	0.58
1:B:4774:LYS:HA	1:B:4777:ILE:HG22	1.85	0.58
1:B:4800:LEU:CD2	1:B:4801:LEU:HD23	2.34	0.58
1:B:635:THR:CA	1:B:1639:LEU:CB	2.81	0.58
1:C:3795:SER:HA	1:C:3880:PHE:HE2	1.69	0.58
1:C:4774:LYS:HA	1:C:4777:ILE:HG22	1.85	0.58
1:D:3708:THR:C	1:D:3710:LEU:HA	2.24	0.58
1:D:3934:TYR:CE1	1:D:3935:TRP:HZ3	2.19	0.58
1:D:3967:GLU:HA	1:D:3970:GLN:CB	2.33	0.58
1:D:4154:VAL:HG12	1:D:4156:HIS:O	2.03	0.58
1:C:4930:ALA:C	1:D:4936:ILE:HD13	2.24	0.58
1:A:1289:LEU:CB	1:A:1552:VAL:O	2.52	0.57
1:A:379:HIS:N	1:A:380:GLN:HA	2.19	0.57
1:A:4115:SER:CA	1:A:4128:PHE:CE2	2.76	0.57
1:A:4891:VAL:HG11	1:D:4918:ILE:CB	2.32	0.57
1:A:4891:VAL:HG21	1:D:4918:ILE:CB	2.31	0.57
1:B:2105:TRP:CE3	1:B:2106:ALA:CA	2.87	0.57
1:B:262:LEU:CB	1:B:263:GLU:CA	2.81	0.57
1:B:2914:LYS:O	1:B:2917:ALA:HB3	2.03	0.57
1:B:4195:PHE:CD2	1:B:4991:PHE:CD2	2.92	0.57
1:B:4774:LYS:HA	1:B:4777:ILE:CG2	2.34	0.57
1:B:4927:ILE:CD1	1:B:4928:LEU:HD22	2.33	0.57
1:C:4243:PHE:CD2	1:C:4671:PHE:CE1	2.89	0.57
1:C:4800:LEU:CD2	1:C:4801:LEU:HD23	2.34	0.57
1:D:317:ARG:O	1:D:346:CYS:CB	2.52	0.57
1:D:679:ALA:O	1:D:680:THR:O	2.22	0.57
1:D:701:GLY:H	1:D:1645:ASN:C	2.07	0.57
1:A:118:LEU:CA	1:A:137:LEU:HA	2.25	0.57
1:A:1687:SER:CA	1:A:1688:HIS:CB	2.83	0.57
1:A:2105:TRP:CE3	1:A:2106:ALA:CA	2.87	0.57
1:B:1124:PHE:HD1	1:B:1125:ASN:O	1.87	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2105:TRP:CE3	1:B:2106:ALA:N	2.73	0.57
1:B:4158:PRO:O	1:B:4159:ARG:C	2.40	0.57
1:B:4984:ASN:O	1:B:4986:ALA:N	2.36	0.57
1:B:679:ALA:O	1:B:680:THR:O	2.22	0.57
1:C:1273:ALA:CB	1:C:1274:HIS:HA	2.18	0.57
1:C:5018:CYS:N	1:C:5019:TRP:CD1	2.72	0.57
1:D:4183:ILE:CG2	1:D:4191:GLU:C	2.54	0.57
1:A:1081:TYR:OH	1:A:1235:THR:N	2.21	0.57
1:A:2342:ASN:HA	1:A:2343:GLY:C	2.24	0.57
1:A:4180:ARG:CA	1:A:4181:ILE:CG1	2.82	0.57
1:A:4936:ILE:HD13	1:D:4930:ALA:CB	2.32	0.57
1:A:5018:CYS:C	1:A:5019:TRP:CD1	2.77	0.57
1:B:1526:LEU:HA	1:B:1541:GLN:CB	2.35	0.57
1:B:2342:ASN:HA	1:B:2343:GLY:C	2.24	0.57
1:B:379:HIS:H	1:B:381:GLU:N	2.01	0.57
1:B:5018:CYS:C	1:B:5019:TRP:CD1	2.77	0.57
1:C:1749:PRO:C	1:C:1751:GLY:N	2.53	0.57
1:C:317:ARG:O	1:C:346:CYS:CB	2.52	0.57
1:C:4829:SER:CB	1:C:4940:PHE:CE1	2.88	0.57
1:C:707:VAL:HA	1:C:725:HIS:CB	2.34	0.57
1:D:1088:TRP:N	1:D:1088:TRP:CD1	2.72	0.57
1:D:1124:PHE:HD1	1:D:1125:ASN:O	1.87	0.57
1:D:2538:THR:O	1:D:2540:THR:N	2.33	0.57
1:D:4774:LYS:HA	1:D:4777:ILE:CG2	2.34	0.57
1:D:707:VAL:HA	1:D:725:HIS:CB	2.33	0.57
1:A:1088:TRP:N	1:A:1088:TRP:CD1	2.72	0.57
1:A:5018:CYS:N	1:A:5019:TRP:CD1	2.72	0.57
1:B:111:HIS:C	1:B:113:HIS:O	2.37	0.57
1:B:1209:SER:O	1:B:1210:SER:C	2.39	0.57
1:B:4577:LEU:CD1	1:B:4807:PHE:HA	2.34	0.57
1:B:707:VAL:HA	1:B:725:HIS:CB	2.33	0.57
1:C:112:ALA:HA	1:C:115:ARG:N	2.17	0.57
1:C:2105:TRP:CE3	1:C:2106:ALA:N	2.73	0.57
1:C:2121:PHE:CE2	1:C:3702:VAL:CB	2.75	0.57
1:C:379:HIS:N	1:C:380:GLN:HA	2.19	0.57
1:C:3833:GLN:HE21	1:C:3833:GLN:HA	1.67	0.57
1:C:3987:ASP:CB	1:C:3988:ALA:CB	2.81	0.57
1:C:4034:ASN:O	1:C:4153:HIS:HE1	1.87	0.57
1:C:4738:ALA:HA	1:C:4742:GLY:CA	2.30	0.57
1:C:4738:ALA:O	1:C:4742:GLY:CA	2.51	0.57
1:D:111:HIS:C	1:D:113:HIS:O	2.37	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1526:LEU:HA	1:D:1541:GLN:CB	2.35	0.57
1:D:263:GLU:O	1:D:280:LEU:CB	2.52	0.57
1:D:4856:PHE:CD1	1:D:4857:ASN:ND2	2.73	0.57
1:D:546:TRP:CE3	1:D:547:VAL:N	2.73	0.57
1:A:4683:PHE:CD1	1:A:4683:PHE:N	2.73	0.57
1:A:4783:ILE:CD1	1:A:4789:PHE:CZ	2.88	0.57
1:A:4927:ILE:CD1	1:A:4928:LEU:HD22	2.33	0.57
1:B:4556:SER:O	1:B:4559:PHE:HB3	2.05	0.57
1:B:681:HIS:O	1:B:784:SER:N	2.37	0.57
1:C:2191:PHE:HD1	1:C:2192:TYR:HD1	1.50	0.57
1:C:2538:THR:O	1:C:2540:THR:N	2.33	0.57
1:C:4158:PRO:O	1:C:4159:ARG:C	2.40	0.57
1:C:515:TRP:CE3	1:C:516:LYS:N	2.73	0.57
1:D:1229:ASN:CA	1:D:1827:ARG:CB	2.81	0.57
1:D:4803:HIS:CD2	1:D:4804:TYR:N	2.72	0.57
1:D:498:THR:C	1:D:500:ALA:HA	2.24	0.57
1:D:5018:CYS:C	1:D:5019:TRP:CD1	2.77	0.57
1:D:5018:CYS:N	1:D:5019:TRP:CD1	2.72	0.57
1:A:1124:PHE:HD1	1:A:1125:ASN:O	1.87	0.57
1:A:1828:ASP:CB	1:A:1829:PRO:CA	2.82	0.57
1:A:829:TYR:O	1:A:839:LEU:HA	2.03	0.57
1:B:4701:TRP:HD1	1:B:4701:TRP:O	1.88	0.57
1:B:5018:CYS:N	1:B:5019:TRP:CD1	2.72	0.57
1:C:111:HIS:C	1:C:113:HIS:O	2.37	0.57
1:C:4180:ARG:CA	1:C:4181:ILE:CG1	2.82	0.57
1:C:4701:TRP:O	1:C:4701:TRP:HD1	1.88	0.57
1:C:4856:PHE:CD1	1:C:4857:ASN:ND2	2.73	0.57
1:C:4235:VAL:CB	1:C:5019:TRP:HZ3	2.04	0.57
1:D:1687:SER:CA	1:D:1688:HIS:CB	2.83	0.57
1:D:1748:PHE:CD1	1:D:1748:PHE:N	2.73	0.57
1:D:4644:TRP:CE3	1:D:4645:CYS:N	2.73	0.57
1:D:4662:ASN:HD21	1:D:4789:PHE:HB2	1.69	0.57
1:A:4141:PHE:CB	1:A:4174:PHE:CE2	2.88	0.57
1:A:4182:GLU:C	1:A:4183:ILE:HD12	2.25	0.57
1:A:4738:ALA:HA	1:A:4742:GLY:CA	2.30	0.57
1:A:707:VAL:HA	1:A:725:HIS:CB	2.34	0.57
1:B:112:ALA:C	1:B:115:ARG:H	2.08	0.57
1:B:1748:PHE:N	1:B:1748:PHE:CD1	2.73	0.57
1:B:3758:MET:O	1:B:3760:LYS:N	2.38	0.57
1:B:4644:TRP:CE3	1:B:4645:CYS:N	2.73	0.57
1:B:4803:HIS:CD2	1:B:4804:TYR:H	2.23	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:4960:ILE:CB	1:B:4983:HIS:CG	2.88	0.57
1:C:1126:GLY:CA	1:C:1143:TRP:CB	2.83	0.57
1:C:3967:GLU:HA	1:C:3970:GLN:CB	2.33	0.57
1:C:4577:LEU:CD1	1:C:4807:PHE:HA	2.34	0.57
1:D:1074:ILE:HA	1:D:1193:SER:HA	1.85	0.57
1:D:2105:TRP:CE3	1:D:2106:ALA:N	2.73	0.57
1:D:4651:THR:HG1	1:D:4799:SER:CB	2.18	0.57
1:D:4803:HIS:CD2	1:D:4804:TYR:H	2.23	0.57
1:A:4195:PHE:CZ	1:A:4991:PHE:CA	2.86	0.57
1:A:4794:TRP:CE3	1:A:4795:TYR:N	2.73	0.57
1:A:4800:LEU:CD2	1:A:4801:LEU:HD23	2.34	0.57
1:A:498:THR:C	1:A:500:ALA:HA	2.24	0.57
1:B:1126:GLY:CA	1:B:1143:TRP:CB	2.83	0.57
1:B:263:GLU:O	1:B:280:LEU:CB	2.52	0.57
1:B:3935:TRP:HE3	1:B:3935:TRP:HA	1.68	0.57
1:B:4803:HIS:CD2	1:B:4804:TYR:N	2.73	0.57
1:C:2342:ASN:HA	1:C:2343:GLY:C	2.24	0.57
1:C:263:GLU:O	1:C:280:LEU:CB	2.52	0.57
1:C:3758:MET:O	1:C:3760:LYS:N	2.38	0.57
1:C:4794:TRP:CE3	1:C:4795:TYR:HA	2.40	0.57
1:C:4803:HIS:CD2	1:C:4804:TYR:H	2.23	0.57
1:C:4803:HIS:CD2	1:C:4804:TYR:N	2.72	0.57
1:C:4856:PHE:CE1	1:C:4857:ASN:ND2	2.73	0.57
1:C:546:TRP:CE3	1:C:547:VAL:N	2.73	0.57
1:D:404:ILE:O	1:D:408:ALA:HB2	2.05	0.57
1:D:4556:SER:O	1:D:4559:PHE:HB3	2.05	0.57
1:D:4656:LEU:C	1:D:4656:LEU:HD22	2.23	0.57
1:D:4683:PHE:N	1:D:4683:PHE:CD1	2.73	0.57
1:A:1074:ILE:HA	1:A:1193:SER:HA	1.85	0.57
1:A:1748:PHE:N	1:A:1748:PHE:CD1	2.73	0.57
1:A:4856:PHE:CE1	1:A:4857:ASN:ND2	2.73	0.57
1:A:4931:ILE:CG2	1:B:4936:ILE:HD11	2.35	0.57
1:B:1587:PRO:O	1:B:1588:ALA:HB3	2.05	0.57
1:B:1718:ILE:CA	1:B:1720:LEU:CB	2.83	0.57
1:B:4034:ASN:O	1:B:4153:HIS:HE1	1.87	0.57
1:B:4696:ASP:C	1:B:4697:VAL:CG2	2.71	0.57
1:B:4794:TRP:CE3	1:B:4795:TYR:HA	2.40	0.57
1:B:4944:ARG:HD2	1:B:4944:ARG:C	2.24	0.57
1:B:546:TRP:CE3	1:B:547:VAL:N	2.73	0.57
1:C:112:ALA:C	1:C:115:ARG:H	2.08	0.57
1:C:3029:GLY:O	1:C:3032:SER:N	2.38	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4656:LEU:C	1:C:4656:LEU:HD22	2.23	0.57
1:C:4774:LYS:HA	1:C:4777:ILE:CG2	2.34	0.57
1:C:4794:TRP:CE3	1:C:4795:TYR:N	2.73	0.57
1:D:2342:ASN:HA	1:D:2343:GLY:C	2.25	0.57
1:D:2538:THR:O	1:D:2539:ALA:HB3	2.05	0.57
1:D:3029:GLY:O	1:D:3032:SER:N	2.38	0.57
1:D:4794:TRP:CE3	1:D:4795:TYR:HA	2.40	0.57
1:D:4800:LEU:CD2	1:D:4801:LEU:HD23	2.34	0.57
1:D:4856:PHE:CE1	1:D:4857:ASN:ND2	2.73	0.57
1:C:4931:ILE:CG2	1:D:4936:ILE:HD11	2.34	0.57
1:A:1126:GLY:CA	1:A:1143:TRP:CB	2.83	0.57
1:A:1526:LEU:HA	1:A:1541:GLN:CB	2.35	0.57
1:A:2105:TRP:CE3	1:A:2106:ALA:N	2.73	0.57
1:A:2538:THR:O	1:A:2539:ALA:HB3	2.05	0.57
1:A:3029:GLY:O	1:A:3032:SER:N	2.38	0.57
1:A:3758:MET:O	1:A:3760:LYS:N	2.38	0.57
1:A:4644:TRP:CE3	1:A:4645:CYS:N	2.73	0.57
1:A:4662:ASN:HD21	1:A:4789:PHE:HB2	1.69	0.57
1:A:4856:PHE:CD1	1:A:4857:ASN:ND2	2.73	0.57
1:A:515:TRP:CE3	1:A:516:LYS:N	2.73	0.57
1:A:679:ALA:O	1:A:680:THR:O	2.22	0.57
1:B:1088:TRP:N	1:B:1088:TRP:CD1	2.72	0.57
1:B:112:ALA:HA	1:B:115:ARG:N	2.17	0.57
1:B:1285:GLU:CA	1:B:1286:MET:CB	2.83	0.57
1:B:3795:SER:HA	1:B:3880:PHE:HE2	1.69	0.57
1:B:4856:PHE:CE1	1:B:4857:ASN:ND2	2.73	0.57
1:B:4982:GLU:CB	1:B:4983:HIS:CB	2.83	0.57
1:B:515:TRP:CE3	1:B:516:LYS:N	2.73	0.57
1:C:1748:PHE:CD1	1:C:1748:PHE:N	2.73	0.57
1:C:4182:GLU:C	1:C:4183:ILE:HD12	2.25	0.57
1:C:4556:SER:O	1:C:4559:PHE:HB3	2.05	0.57
1:D:3935:TRP:HE3	1:D:3935:TRP:HA	1.68	0.57
1:D:4701:TRP:HD1	1:D:4701:TRP:O	1.88	0.57
1:A:4891:VAL:HG11	1:D:4918:ILE:HA	0.67	0.57
1:A:112:ALA:HA	1:A:115:ARG:N	2.17	0.56
1:A:3933:PHE:CZ	1:A:3951:PHE:CE2	2.85	0.56
1:A:4774:LYS:HA	1:A:4777:ILE:CG2	2.34	0.56
1:A:4794:TRP:CE3	1:A:4795:TYR:HA	2.40	0.56
1:B:3833:GLN:HA	1:B:3833:GLN:HE21	1.67	0.56
1:B:3937:TYR:O	1:B:3939:GLY:N	2.33	0.56
1:B:4738:ALA:HA	1:B:4742:GLY:CA	2.30	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:4968:PHE:CD2	1:B:4978:HIS:HB3	2.40	0.56
1:C:404:ILE:O	1:C:408:ALA:HB2	2.05	0.56
1:C:4556:SER:OG	1:C:4557:ARG:N	2.26	0.56
1:C:4662:ASN:HD21	1:C:4789:PHE:HB2	1.69	0.56
1:C:4982:GLU:CB	1:C:4983:HIS:CB	2.83	0.56
1:D:24:CYS:N	1:D:35:LEU:O	2.32	0.56
1:D:4158:PRO:O	1:D:4159:ARG:C	2.40	0.56
1:D:4182:GLU:C	1:D:4183:ILE:HD12	2.25	0.56
1:D:4773:VAL:O	1:D:4776:GLN:N	2.37	0.56
1:D:4794:TRP:CE3	1:D:4795:TYR:N	2.73	0.56
1:D:515:TRP:CE3	1:D:516:LYS:N	2.73	0.56
1:A:4803:HIS:CD2	1:A:4804:TYR:H	2.23	0.56
1:A:4803:HIS:CD2	1:A:4804:TYR:N	2.72	0.56
1:A:4960:ILE:CB	1:A:4983:HIS:CG	2.88	0.56
1:B:4180:ARG:CA	1:B:4181:ILE:CG1	2.82	0.56
1:B:4632:LEU:CA	1:B:4633:GLU:CB	2.83	0.56
1:B:4856:PHE:CD1	1:B:4857:ASN:ND2	2.73	0.56
1:C:2105:TRP:CE3	1:C:2106:ALA:CA	2.87	0.56
1:C:4725:LEU:O	1:C:4737:ILE:HD13	2.06	0.56
1:C:5021:PHE:C	1:C:5022:PHE:O	2.28	0.56
1:B:4182:GLU:C	1:B:4183:ILE:HD12	2.25	0.56
1:B:4717:ASP:O	1:B:4718:LYS:CB	2.49	0.56
1:B:4794:TRP:CE3	1:B:4795:TYR:N	2.73	0.56
1:C:4682:GLU:HA	1:C:4724:VAL:CG1	2.36	0.56
1:C:4773:VAL:O	1:C:4776:GLN:N	2.37	0.56
1:C:4960:ILE:CB	1:C:4983:HIS:CG	2.88	0.56
1:C:679:ALA:O	1:C:680:THR:O	2.22	0.56
1:D:1587:PRO:O	1:D:1588:ALA:HB3	2.05	0.56
1:D:1718:ILE:CA	1:D:1720:LEU:CB	2.83	0.56
1:D:176:SER:CA	1:D:177:GLU:CB	2.84	0.56
1:D:4577:LEU:HD13	1:D:4807:PHE:HA	1.87	0.56
1:A:546:TRP:CE3	1:A:547:VAL:N	2.73	0.56
1:A:667:MET:O	1:A:790:ARG:N	2.29	0.56
1:B:2538:THR:O	1:B:2539:ALA:HB3	2.05	0.56
1:B:4683:PHE:CD1	1:B:4683:PHE:N	2.73	0.56
1:B:4945:ASP:O	1:B:4948:GLU:HG3	2.05	0.56
1:C:1587:PRO:O	1:C:1588:ALA:HB3	2.05	0.56
1:C:4644:TRP:CE3	1:C:4645:CYS:N	2.73	0.56
1:C:4696:ASP:C	1:C:4697:VAL:CG2	2.71	0.56
1:C:4954:MET:HE3	1:C:4954:MET:C	2.26	0.56
1:D:3758:MET:O	1:D:3760:LYS:N	2.38	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:4180:ARG:CA	1:D:4181:ILE:CG1	2.82	0.56
1:D:4664:LEU:HD13	1:D:4665:LYS:N	2.21	0.56
1:D:4960:ILE:CB	1:D:4983:HIS:CG	2.88	0.56
1:A:176:SER:CA	1:A:177:GLU:CB	2.84	0.56
1:A:4556:SER:O	1:A:4559:PHE:HB3	2.05	0.56
1:A:4632:LEU:CA	1:A:4633:GLU:CB	2.83	0.56
1:A:4725:LEU:O	1:A:4737:ILE:HD13	2.06	0.56
1:A:77:ALA:N	1:B:3935:TRP:CD1	2.68	0.56
1:B:4088:ILE:C	1:B:4089:SER:O	2.44	0.56
1:B:4773:VAL:O	1:B:4776:GLN:N	2.37	0.56
1:B:4662:ASN:HD21	1:B:4789:PHE:HB2	1.69	0.56
1:A:4931:ILE:HG22	1:B:4936:ILE:HD11	1.87	0.56
1:C:1718:ILE:CA	1:C:1720:LEU:CB	2.83	0.56
1:C:1803:PRO:O	1:C:1807:LEU:N	2.37	0.56
1:C:1229:ASN:CA	1:C:1827:ARG:CB	2.81	0.56
1:C:2592:GLY:H	1:C:2595:LEU:N	1.93	0.56
1:C:3708:THR:C	1:C:3710:LEU:HA	2.24	0.56
1:C:4783:ILE:CD1	1:C:4789:PHE:CZ	2.88	0.56
1:C:4835:LYS:N	1:C:4836:GLN:CB	2.69	0.56
1:D:4243:PHE:CD2	1:D:4671:PHE:CD1	2.84	0.56
1:D:4843:LEU:HD23	1:D:4843:LEU:C	2.26	0.56
1:C:4918:ILE:HA	1:D:4891:VAL:HG11	0.66	0.56
1:A:112:ALA:C	1:A:115:ARG:H	2.08	0.56
1:A:4577:LEU:HD13	1:A:4807:PHE:HA	1.87	0.56
1:A:4664:LEU:HD13	1:A:4665:LYS:N	2.21	0.56
1:A:4738:ALA:O	1:A:4742:GLY:CA	2.51	0.56
1:A:4997:ASN:OD1	1:A:4997:ASN:N	2.39	0.56
1:B:1687:SER:CA	1:B:1688:HIS:CB	2.83	0.56
1:B:4843:LEU:C	1:B:4843:LEU:HD23	2.26	0.56
1:C:173:SER:CA	1:C:174:VAL:CB	2.84	0.56
1:C:4141:PHE:CB	1:C:4174:PHE:CE2	2.88	0.56
1:D:1126:GLY:CA	1:D:1143:TRP:CB	2.83	0.56
1:D:1286:MET:CB	1:D:1287:LEU:CA	2.84	0.56
1:D:4089:SER:CA	1:D:4121:GLU:O	2.54	0.56
1:D:4141:PHE:CB	1:D:4174:PHE:CE2	2.88	0.56
1:D:4725:LEU:O	1:D:4737:ILE:HD13	2.06	0.56
1:D:4195:PHE:CD2	1:D:4991:PHE:CD2	2.92	0.56
1:A:4243:PHE:CD2	1:A:4671:PHE:CE1	2.89	0.56
1:A:4843:LEU:C	1:A:4843:LEU:HD23	2.26	0.56
1:B:1287:LEU:CB	1:B:1554:VAL:C	2.74	0.56
1:B:2200:ALA:C	1:B:2202:GLY:N	2.58	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3029:GLY:O	1:B:3032:SER:N	2.38	0.56
1:B:4794:TRP:HE3	1:B:4795:TYR:N	2.04	0.56
1:B:667:MET:O	1:B:790:ARG:N	2.29	0.56
1:C:1526:LEU:HA	1:C:1541:GLN:CB	2.35	0.56
1:C:789:VAL:O	1:C:1627:ALA:HA	2.03	0.56
1:C:4195:PHE:CD2	1:C:4991:PHE:CD2	2.92	0.56
1:C:4998:LYS:C	1:C:5002:GLU:CB	2.74	0.56
1:D:173:SER:CA	1:D:174:VAL:CB	2.84	0.56
1:D:4682:GLU:HA	1:D:4724:VAL:CG1	2.36	0.56
1:D:4783:ILE:CD1	1:D:4789:PHE:CZ	2.88	0.56
1:D:4832:HIS:HD1	1:D:4833:ASN:CG	2.08	0.56
1:D:4835:LYS:N	1:D:4836:GLN:CB	2.69	0.56
1:A:1286:MET:CB	1:A:1287:LEU:CA	2.84	0.56
1:A:4656:LEU:HD22	1:A:4656:LEU:C	2.23	0.56
1:A:4682:GLU:HA	1:A:4724:VAL:CG1	2.36	0.56
1:A:4954:MET:HE1	1:A:4955:GLU:HA	1.88	0.56
1:A:501:ALA:HB3	1:A:504:ALA:N	2.21	0.56
1:B:1286:MET:CB	1:B:1287:LEU:CA	2.84	0.56
1:B:1828:ASP:CB	1:B:1829:PRO:CA	2.82	0.56
1:B:23:GLN:HA	1:B:36:CYS:HA	1.88	0.56
1:B:4682:GLU:HA	1:B:4724:VAL:CG1	2.36	0.56
1:B:4783:ILE:CD1	1:B:4789:PHE:CZ	2.88	0.56
1:C:147:TRP:O	1:C:174:VAL:CB	2.54	0.56
1:B:4918:ILE:CB	1:C:4891:VAL:HG11	2.32	0.56
1:D:4632:LEU:CA	1:D:4633:GLU:CB	2.83	0.56
1:A:4701:TRP:HD1	1:A:4701:TRP:O	1.88	0.56
1:A:4794:TRP:HE3	1:A:4795:TYR:N	2.04	0.56
1:B:147:TRP:O	1:B:174:VAL:CB	2.54	0.56
1:B:2463:LEU:HA	1:B:2464:ASP:CB	2.36	0.56
1:B:4664:LEU:HD13	1:B:4665:LYS:N	2.21	0.56
1:C:1088:TRP:N	1:C:1088:TRP:CD1	2.72	0.56
1:C:4843:LEU:C	1:C:4843:LEU:HD23	2.26	0.56
1:B:4935:LEU:HD21	1:C:4940:PHE:CE2	2.32	0.56
1:C:5031:GLN:O	1:C:5032:TYR:HD1	1.89	0.56
1:C:73:LEU:N	1:C:106:ALA:H	2.04	0.56
1:D:2755:ILE:O	1:D:2759:ALA:CB	2.54	0.56
1:D:4998:LYS:C	1:D:5002:GLU:CB	2.74	0.56
1:A:1290:ARG:HA	1:A:1551:ALA:CB	2.34	0.56
1:A:1718:ILE:CA	1:A:1720:LEU:CB	2.83	0.56
1:A:1229:ASN:CA	1:A:1827:ARG:CB	2.81	0.56
1:A:23:GLN:HA	1:A:36:CYS:HA	1.88	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4656:LEU:O	1:A:4659:ILE:HG22	2.06	0.56
1:A:535:ALA:O	1:A:538:ALA:N	2.39	0.56
1:A:681:HIS:O	1:A:784:SER:N	2.37	0.56
1:B:173:SER:CA	1:B:174:VAL:CB	2.84	0.56
1:B:4670:ILE:HG23	1:B:4671:PHE:N	2.21	0.56
1:B:4835:LYS:N	1:B:4836:GLN:CB	2.69	0.56
1:B:4997:ASN:N	1:B:4997:ASN:OD1	2.39	0.56
1:B:5031:GLN:O	1:B:5032:TYR:HD1	1.89	0.56
1:C:1274:HIS:O	1:C:1564:PHE:O	2.24	0.56
1:C:291:LEU:O	1:C:292:ALA:HB2	2.06	0.56
1:C:4088:ILE:C	1:C:4089:SER:O	2.44	0.56
1:C:4132:PHE:C	1:C:4135:PRO:HD2	2.26	0.56
1:C:4651:THR:HG1	1:C:4799:SER:CB	2.18	0.56
1:C:4664:LEU:HD13	1:C:4665:LYS:N	2.21	0.56
1:D:1274:HIS:O	1:D:1564:PHE:O	2.24	0.56
1:D:118:LEU:CA	1:D:137:LEU:HA	2.25	0.56
1:D:3825:GLU:CA	1:D:3826:VAL:CB	2.84	0.56
1:A:147:TRP:O	1:A:174:VAL:CB	2.54	0.56
1:A:1287:LEU:CB	1:A:1554:VAL:C	2.74	0.56
1:A:173:SER:CA	1:A:174:VAL:CB	2.84	0.56
1:A:4835:LYS:N	1:A:4836:GLN:CB	2.69	0.56
1:B:1803:PRO:O	1:B:1807:LEU:N	2.37	0.56
1:B:404:ILE:O	1:B:408:ALA:HB3	2.06	0.56
1:B:4577:LEU:HD13	1:B:4807:PHE:HA	1.87	0.56
1:B:4966:ASP:C	1:B:4968:PHE:N	2.53	0.56
1:B:4998:LYS:C	1:B:5002:GLU:CB	2.74	0.56
1:B:73:LEU:N	1:B:106:ALA:H	2.04	0.56
1:C:1213:PHE:CA	1:C:1214:PHE:CB	2.84	0.56
1:C:176:SER:CA	1:C:177:GLU:CB	2.84	0.56
1:C:4670:ILE:HG23	1:C:4671:PHE:N	2.21	0.56
1:D:23:GLN:HA	1:D:36:CYS:HA	1.88	0.56
1:A:4670:ILE:HG23	1:A:4671:PHE:N	2.21	0.55
1:B:1297:PHE:N	1:B:1297:PHE:CG	2.73	0.55
1:B:2755:ILE:O	1:B:2759:ALA:CB	2.54	0.55
1:B:404:ILE:O	1:B:408:ALA:HB2	2.05	0.55
1:B:4725:LEU:O	1:B:4737:ILE:HD13	2.06	0.55
1:C:1285:GLU:CA	1:C:1286:MET:CB	2.83	0.55
1:C:1286:MET:CB	1:C:1287:LEU:CA	2.84	0.55
1:C:1287:LEU:CB	1:C:1554:VAL:C	2.74	0.55
1:C:1687:SER:CA	1:C:1688:HIS:CB	2.83	0.55
1:C:2463:LEU:CA	1:C:2464:ASP:CB	2.84	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:23:GLN:HA	1:C:36:CYS:HA	1.88	0.55
1:C:3935:TRP:HE3	1:C:3935:TRP:HA	1.68	0.55
1:C:4632:LEU:CA	1:C:4633:GLU:CB	2.83	0.55
1:C:4931:ILE:HG22	1:D:4936:ILE:HD11	1.87	0.55
1:D:112:ALA:C	1:D:115:ARG:H	2.08	0.55
1:D:1273:ALA:CB	1:D:1274:HIS:HA	2.18	0.55
1:D:1287:LEU:CB	1:D:1554:VAL:C	2.74	0.55
1:A:1274:HIS:O	1:A:1564:PHE:O	2.24	0.55
1:A:439:GLU:H	1:A:442:ILE:H	1.54	0.55
1:B:1274:HIS:O	1:B:1564:PHE:O	2.24	0.55
1:B:2463:LEU:CA	1:B:2464:ASP:CB	2.84	0.55
1:B:535:ALA:O	1:B:538:ALA:N	2.39	0.55
1:C:4183:ILE:CG2	1:C:4191:GLU:C	2.54	0.55
1:C:4832:HIS:HD1	1:C:4833:ASN:CG	2.08	0.55
1:C:4978:HIS:NE2	1:C:4983:HIS:CG	2.62	0.55
1:D:1124:PHE:CA	1:D:1131:ARG:CA	2.52	0.55
1:D:2362:GLU:CA	1:D:2363:CYS:CB	2.85	0.55
1:D:4556:SER:O	1:D:4559:PHE:N	2.40	0.55
1:D:5031:GLN:O	1:D:5032:TYR:HD1	1.89	0.55
1:A:1213:PHE:CA	1:A:1214:PHE:CB	2.84	0.55
1:A:1587:PRO:O	1:A:1588:ALA:HB3	2.05	0.55
1:A:2453:ILE:H	1:A:2456:ILE:H	1.55	0.55
1:A:2463:LEU:HA	1:A:2464:ASP:CB	2.36	0.55
1:A:4832:HIS:HD1	1:A:4833:ASN:CG	2.08	0.55
1:B:176:SER:CA	1:B:177:GLU:CB	2.84	0.55
1:B:2168:VAL:CA	1:B:2169:GLN:CB	2.85	0.55
1:B:2201:LEU:CB	1:B:2205:GLU:CB	2.84	0.55
1:B:291:LEU:O	1:B:292:ALA:HB2	2.06	0.55
1:C:2201:LEU:CB	1:C:2205:GLU:CB	2.84	0.55
1:C:4852:THR:HG1	1:C:4886:HIS:CG	2.23	0.55
1:D:147:TRP:O	1:D:174:VAL:CB	2.54	0.55
1:D:2453:ILE:H	1:D:2456:ILE:H	1.55	0.55
1:D:4575:PHE:HD1	1:D:4576:ILE:N	2.04	0.55
1:D:4794:TRP:HE3	1:D:4795:TYR:N	2.04	0.55
1:A:1093:GLU:O	1:A:1200:GLY:CA	2.55	0.55
1:A:1285:GLU:CA	1:A:1286:MET:CB	2.83	0.55
1:A:2362:GLU:CA	1:A:2363:CYS:CB	2.85	0.55
1:A:4697:VAL:N	1:A:4699:GLY:H	1.94	0.55
1:A:4716:TRP:HE3	1:A:4716:TRP:O	1.90	0.55
1:B:1093:GLU:O	1:B:1200:GLY:CA	2.55	0.55
1:B:1290:ARG:HA	1:B:1551:ALA:CB	2.34	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:24:CYS:N	1:B:35:LEU:O	2.32	0.55
1:B:4908:GLU:CB	1:B:4909:TYR:CA	2.85	0.55
1:C:2538:THR:O	1:C:2539:ALA:HB3	2.05	0.55
1:C:3937:TYR:O	1:C:3939:GLY:N	2.33	0.55
1:C:4577:LEU:HD13	1:C:4807:PHE:HA	1.87	0.55
1:C:501:ALA:HB3	1:C:504:ALA:N	2.21	0.55
1:D:1601:MET:CB	1:D:1602:PRO:CA	2.84	0.55
1:D:2463:LEU:HA	1:D:2464:ASP:CB	2.36	0.55
1:D:4968:PHE:CD2	1:D:4978:HIS:HB3	2.40	0.55
1:A:2463:LEU:CA	1:A:2464:ASP:CB	2.84	0.55
1:A:291:LEU:O	1:A:292:ALA:HB2	2.06	0.55
1:A:24:CYS:N	1:A:35:LEU:O	2.32	0.55
1:B:1229:ASN:CA	1:B:1827:ARG:CB	2.81	0.55
1:B:2145:SER:CB	1:B:3645:PRO:CA	2.85	0.55
1:B:4556:SER:O	1:B:4559:PHE:N	2.40	0.55
1:B:4852:THR:HG1	1:B:4886:HIS:CG	2.23	0.55
1:C:1601:MET:CB	1:C:1602:PRO:CA	2.84	0.55
1:C:168:ASP:CB	1:C:169:LEU:CA	2.82	0.55
1:C:2463:LEU:HA	1:C:2464:ASP:CB	2.36	0.55
1:C:348:VAL:CB	1:C:349:GLN:CA	2.85	0.55
1:C:4115:SER:CA	1:C:4128:PHE:CE2	2.76	0.55
1:C:4850:LEU:O	1:C:4854:VAL:HG22	2.07	0.55
1:D:4195:PHE:CZ	1:D:4991:PHE:CB	2.65	0.55
1:D:439:GLU:H	1:D:442:ILE:H	1.54	0.55
1:A:173:SER:CB	1:A:174:VAL:CB	2.85	0.55
1:A:3902:TYR:CD1	1:A:3906:GLN:CB	2.90	0.55
1:A:404:ILE:O	1:A:408:ALA:HB2	2.05	0.55
1:A:4908:GLU:CB	1:A:4909:TYR:CB	2.85	0.55
1:A:4998:LYS:C	1:A:5002:GLU:CB	2.74	0.55
1:B:173:SER:CB	1:B:174:VAL:CB	2.85	0.55
1:B:1933:GLU:O	1:B:1936:LYS:CB	2.55	0.55
1:B:4141:PHE:CB	1:B:4174:PHE:CE2	2.88	0.55
1:C:1117:ALA:CA	1:C:1134:LEU:CB	2.85	0.55
1:C:702:TRP:CD1	1:C:1640:HIS:CB	2.90	0.55
1:C:4683:PHE:N	1:C:4683:PHE:CD1	2.73	0.55
1:C:4908:GLU:CB	1:C:4909:TYR:CA	2.85	0.55
1:C:4968:PHE:CD2	1:C:4978:HIS:HB3	2.40	0.55
1:C:701:GLY:H	1:C:1645:ASN:C	2.07	0.55
1:D:2463:LEU:CA	1:D:2464:ASP:CB	2.84	0.55
1:D:348:VAL:CB	1:D:349:GLN:CA	2.85	0.55
1:D:4132:PHE:C	1:D:4135:PRO:HD2	2.27	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:4927:ILE:CD1	1:D:4928:LEU:CD2	2.85	0.55
1:A:1601:MET:CB	1:A:1602:PRO:CA	2.84	0.55
1:A:546:TRP:HE3	1:A:547:VAL:N	2.04	0.55
1:B:2191:PHE:HD1	1:B:2192:TYR:HD1	1.50	0.55
1:B:4115:SER:CA	1:B:4128:PHE:CE2	2.76	0.55
1:B:4132:PHE:C	1:B:4135:PRO:HD2	2.26	0.55
1:B:4716:TRP:O	1:B:4716:TRP:HE3	1.90	0.55
1:B:5016:GLU:C	1:B:5017:ARG:O	2.42	0.55
1:B:608:VAL:CB	1:B:610:ASN:CB	2.85	0.55
1:C:1253:PRO:CB	1:C:1254:HIS:CB	2.85	0.55
1:C:639:ASN:CA	1:C:1634:LEU:O	2.42	0.55
1:C:1933:GLU:O	1:C:1936:LYS:CB	2.55	0.55
1:C:2145:SER:CB	1:C:3645:PRO:CA	2.85	0.55
1:C:4927:ILE:CD1	1:C:4928:LEU:CD2	2.85	0.55
1:D:1117:ALA:CA	1:D:1134:LEU:CB	2.85	0.55
1:D:1213:PHE:CA	1:D:1214:PHE:CB	2.84	0.55
1:D:1272:LEU:CA	1:D:1273:ALA:CB	2.84	0.55
1:D:1828:ASP:CB	1:D:1829:PRO:CA	2.82	0.55
1:D:1933:GLU:O	1:D:1936:LYS:CB	2.55	0.55
1:D:291:LEU:O	1:D:292:ALA:HB2	2.06	0.55
1:D:4677:LEU:CD2	1:D:4711:PHE:CE2	2.90	0.55
1:D:4857:ASN:C	1:D:4858:PHE:CD1	2.80	0.55
1:D:535:ALA:O	1:D:538:ALA:N	2.39	0.55
1:D:608:VAL:CB	1:D:610:ASN:CB	2.85	0.55
1:A:1297:PHE:CG	1:A:1297:PHE:N	2.73	0.55
1:A:1292:SER:N	1:A:1600:LEU:CB	2.70	0.55
1:A:4575:PHE:HD1	1:A:4576:ILE:N	2.04	0.55
1:B:1292:SER:N	1:B:1600:LEU:CB	2.70	0.55
1:B:2274:ASP:N	1:B:2275:VAL:CB	2.70	0.55
1:B:3902:TYR:CD1	1:B:3906:GLN:CB	2.90	0.55
1:B:4156:HIS:CB	1:B:4157:ASP:CA	2.85	0.55
1:C:112:ALA:N	1:C:113:HIS:O	2.40	0.55
1:C:2274:ASP:CB	1:C:2277:ALA:CB	2.85	0.55
1:C:2453:ILE:H	1:C:2456:ILE:H	1.55	0.55
1:C:3825:GLU:CA	1:C:3826:VAL:CB	2.84	0.55
1:C:4677:LEU:CD2	1:C:4711:PHE:CE2	2.90	0.55
1:B:4942:GLU:CB	1:C:4944:ARG:CZ	2.85	0.55
1:D:1292:SER:N	1:D:1600:LEU:CB	2.70	0.55
1:D:404:ILE:O	1:D:408:ALA:HB3	2.06	0.55
1:D:4656:LEU:O	1:D:4659:ILE:HG22	2.06	0.55
1:A:73:LEU:N	1:A:106:ALA:H	2.04	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1117:ALA:CA	1:A:1134:LEU:CB	2.85	0.55
1:A:2200:ALA:C	1:A:2202:GLY:N	2.58	0.55
1:A:3935:TRP:CD1	1:D:77:ALA:N	2.69	0.55
1:A:3986:TRP:CB	1:A:3987:ASP:CA	2.79	0.55
1:A:4156:HIS:CB	1:A:4157:ASP:CA	2.85	0.55
1:A:438:ILE:N	1:A:439:GLU:CB	2.70	0.55
1:A:4850:LEU:O	1:A:4854:VAL:HG22	2.07	0.55
1:A:4908:GLU:CB	1:A:4909:TYR:CA	2.85	0.55
1:A:608:VAL:CB	1:A:610:ASN:CB	2.85	0.55
1:B:1117:ALA:CA	1:B:1134:LEU:CB	2.85	0.55
1:B:2451:LEU:O	1:B:2454:ARG:HB3	2.07	0.55
1:B:4780:PHE:HA	1:B:4783:ILE:CG2	2.37	0.55
1:B:4927:ILE:CD1	1:B:4928:LEU:CD2	2.85	0.55
1:B:4960:ILE:CB	1:B:4961:CYS:CB	2.85	0.55
1:C:1093:GLU:O	1:C:1200:GLY:CA	2.55	0.55
1:C:4794:TRP:HE3	1:C:4795:TYR:N	2.04	0.55
1:C:4997:ASN:OD1	1:C:4997:ASN:N	2.38	0.55
1:C:4995:LEU:HD11	1:C:5011:TRP:HE3	0.63	0.55
1:C:918:ARG:N	1:C:919:ASN:CB	2.70	0.55
1:D:1093:GLU:O	1:D:1200:GLY:CA	2.55	0.55
1:D:252:VAL:N	1:D:253:CYS:CB	2.70	0.55
1:D:4670:ILE:HG23	1:D:4671:PHE:N	2.21	0.55
1:D:4850:LEU:O	1:D:4854:VAL:HG22	2.07	0.55
1:D:4960:ILE:CB	1:D:4961:CYS:CB	2.85	0.55
1:A:2529:ASP:O	1:A:2531:ARG:N	2.40	0.55
1:A:3825:GLU:CA	1:A:3826:VAL:CB	2.84	0.55
1:B:1213:PHE:CA	1:B:1214:PHE:CB	2.84	0.55
1:B:1253:PRO:CB	1:B:1254:HIS:CB	2.85	0.55
1:B:4105:GLY:N	1:B:4106:PRO:HD2	2.22	0.55
1:B:4952:GLU:O	1:B:4956:THR:HG23	2.07	0.55
1:B:501:ALA:HB3	1:B:504:ALA:N	2.21	0.55
1:B:509:GLU:O	1:B:510:GLU:C	2.46	0.55
1:C:2451:LEU:O	1:C:2454:ARG:HB3	2.07	0.55
1:C:252:VAL:N	1:C:253:CYS:CB	2.70	0.55
1:C:4180:ARG:CA	1:C:4181:ILE:CB	2.85	0.55
1:D:73:LEU:N	1:D:106:ALA:H	2.04	0.55
1:D:1253:PRO:CB	1:D:1254:HIS:CB	2.85	0.55
1:D:2201:LEU:CB	1:D:2205:GLU:CB	2.84	0.55
1:D:4800:LEU:CD2	1:D:4801:LEU:CD2	2.85	0.55
1:D:546:TRP:HE3	1:D:547:VAL:N	2.04	0.55
1:A:404:ILE:O	1:A:408:ALA:HB3	2.06	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4089:SER:CA	1:A:4121:GLU:O	2.54	0.54
1:A:41:GLY:O	1:A:44:ASN:C	2.46	0.54
1:B:2102:VAL:CA	1:B:2105:TRP:CD1	2.84	0.54
1:B:2274:ASP:CB	1:B:2277:ALA:CB	2.85	0.54
1:B:2362:GLU:CA	1:B:2363:CYS:CB	2.85	0.54
1:B:4559:PHE:CD1	1:B:4560:TYR:N	2.75	0.54
1:C:181:HIS:CB	1:C:182:LEU:CA	2.85	0.54
1:C:2168:VAL:CA	1:C:2169:GLN:CB	2.85	0.54
1:C:41:GLY:O	1:C:44:ASN:C	2.46	0.54
1:C:4556:SER:O	1:C:4559:PHE:N	2.40	0.54
1:C:4559:PHE:CD1	1:C:4560:TYR:N	2.75	0.54
1:C:4800:LEU:CD2	1:C:4801:LEU:CD2	2.85	0.54
1:C:4857:ASN:C	1:C:4858:PHE:CD1	2.80	0.54
1:C:4960:ILE:CB	1:C:4961:CYS:CB	2.85	0.54
1:D:2102:VAL:CA	1:D:2105:TRP:CD1	2.84	0.54
1:D:4105:GLY:N	1:D:4106:PRO:HD2	2.22	0.54
1:A:2121:PHE:O	1:A:3725:TYR:OH	2.17	0.54
1:A:2201:LEU:CB	1:A:2205:GLU:CB	2.84	0.54
1:A:2274:ASP:N	1:A:2275:VAL:CB	2.70	0.54
1:A:4927:ILE:CD1	1:A:4928:LEU:CD2	2.85	0.54
1:A:4960:ILE:CB	1:A:4961:CYS:CB	2.85	0.54
1:A:4971:THR:HG21	1:A:4974:GLY:HA3	1.87	0.54
1:A:4982:GLU:CB	1:A:4983:HIS:CB	2.83	0.54
1:A:5031:GLN:O	1:A:5032:TYR:HD1	1.89	0.54
1:B:118:LEU:CA	1:B:137:LEU:HA	2.25	0.54
1:B:3825:GLU:CA	1:B:3826:VAL:CB	2.84	0.54
1:B:4180:ARG:CA	1:B:4181:ILE:CB	2.85	0.54
1:B:438:ILE:N	1:B:439:GLU:CB	2.70	0.54
1:A:4935:LEU:HD23	1:B:4940:PHE:CE2	2.42	0.54
1:B:546:TRP:HE3	1:B:547:VAL:N	2.05	0.54
1:C:3934:TYR:CE1	1:C:3935:TRP:HZ3	2.19	0.54
1:C:4780:PHE:HA	1:C:4783:ILE:CG2	2.37	0.54
1:D:2274:ASP:N	1:D:2275:VAL:CB	2.70	0.54
1:D:2451:LEU:O	1:D:2454:ARG:HB3	2.07	0.54
1:D:378:LEU:CB	1:D:379:HIS:CA	2.84	0.54
1:D:438:ILE:N	1:D:439:GLU:CB	2.70	0.54
1:D:4716:TRP:O	1:D:4716:TRP:HE3	1.90	0.54
1:A:1253:PRO:CB	1:A:1254:HIS:CB	2.85	0.54
1:A:702:TRP:CD1	1:A:1640:HIS:CB	2.90	0.54
1:A:2168:VAL:CB	1:A:2169:GLN:CB	2.86	0.54
1:A:2755:ILE:O	1:A:2759:ALA:CB	2.54	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3937:TYR:O	1:A:3939:GLY:N	2.33	0.54
1:A:4928:LEU:O	1:A:4931:ILE:HD13	2.07	0.54
1:B:4908:GLU:CB	1:B:4909:TYR:CB	2.85	0.54
1:C:2274:ASP:N	1:C:2275:VAL:CB	2.70	0.54
1:C:404:ILE:O	1:C:408:ALA:HB3	2.06	0.54
1:C:4105:GLY:N	1:C:4106:PRO:HD2	2.22	0.54
1:C:438:ILE:N	1:C:439:GLU:CB	2.70	0.54
1:C:439:GLU:H	1:C:442:ILE:H	1.54	0.54
1:C:4235:VAL:CG1	1:C:5019:TRP:HZ3	2.05	0.54
1:C:546:TRP:HE3	1:C:547:VAL:N	2.04	0.54
1:C:608:VAL:CB	1:C:610:ASN:CB	2.85	0.54
1:D:112:ALA:N	1:D:113:HIS:O	2.40	0.54
1:D:2168:VAL:CA	1:D:2169:GLN:CB	2.85	0.54
1:D:4908:GLU:CB	1:D:4909:TYR:CB	2.85	0.54
1:D:501:ALA:HB3	1:D:504:ALA:N	2.21	0.54
1:A:1825:HIS:O	1:A:1826:ALA:HB3	2.07	0.54
1:A:2105:TRP:CZ3	1:A:2106:ALA:HA	2.42	0.54
1:A:2495:VAL:CB	1:A:2496:PRO:CD	2.86	0.54
1:A:348:VAL:CB	1:A:349:GLN:CA	2.85	0.54
1:A:509:GLU:O	1:A:510:GLU:C	2.46	0.54
1:B:1601:MET:CB	1:B:1602:PRO:CA	2.84	0.54
1:B:3106:MET:O	1:B:3110:LEU:N	2.36	0.54
1:C:1126:GLY:HA3	1:C:1143:TRP:CB	2.38	0.54
1:C:1160:ILE:O	1:C:1178:ALA:HB1	2.08	0.54
1:C:1209:SER:O	1:C:1210:SER:C	2.39	0.54
1:C:1292:SER:N	1:C:1600:LEU:CB	2.70	0.54
1:C:1825:HIS:O	1:C:1826:ALA:HB3	2.07	0.54
1:C:2755:ILE:O	1:C:2759:ALA:CB	2.54	0.54
1:C:4716:TRP:HE3	1:C:4716:TRP:O	1.90	0.54
1:C:918:ARG:CB	1:C:921:ASN:CB	2.85	0.54
1:D:1285:GLU:CA	1:D:1286:MET:CB	2.83	0.54
1:D:148:TRP:CA	1:D:149:THR:CB	2.85	0.54
1:D:2145:SER:CB	1:D:3645:PRO:CA	2.85	0.54
1:D:4559:PHE:CD1	1:D:4560:TYR:N	2.75	0.54
1:D:4928:LEU:O	1:D:4931:ILE:HD13	2.07	0.54
1:D:4997:ASN:OD1	1:D:4997:ASN:N	2.39	0.54
1:A:1803:PRO:O	1:A:1807:LEU:N	2.37	0.54
1:A:1933:GLU:O	1:A:1936:LYS:CB	2.55	0.54
1:A:2168:VAL:CA	1:A:2169:GLN:CB	2.85	0.54
1:A:2452:ARG:N	1:A:2453:ILE:CB	2.71	0.54
1:A:4132:PHE:CD1	1:A:4132:PHE:N	2.73	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4180:ARG:CA	1:A:4181:ILE:CB	2.85	0.54
1:B:41:GLY:O	1:B:44:ASN:C	2.46	0.54
1:B:4800:LEU:CD2	1:B:4801:LEU:CD2	2.85	0.54
1:B:4850:LEU:O	1:B:4854:VAL:HG22	2.07	0.54
1:B:702:TRP:CD1	1:B:1640:HIS:CB	2.90	0.54
1:C:2362:GLU:CA	1:C:2363:CYS:CB	2.85	0.54
1:C:2529:ASP:O	1:C:2531:ARG:N	2.40	0.54
1:C:4184:MET:CB	1:C:5021:PHE:HB2	2.38	0.54
1:C:4656:LEU:O	1:C:4659:ILE:HG22	2.06	0.54
1:D:1564:PHE:N	1:D:1564:PHE:CD1	2.76	0.54
1:D:2105:TRP:CZ3	1:D:2106:ALA:HA	2.42	0.54
1:D:2452:ARG:N	1:D:2453:ILE:CB	2.71	0.54
1:D:4088:ILE:C	1:D:4089:SER:O	2.44	0.54
1:A:2145:SER:CB	1:A:3645:PRO:CA	2.85	0.54
1:A:252:VAL:N	1:A:253:CYS:CB	2.70	0.54
1:A:4132:PHE:C	1:A:4135:PRO:HD2	2.26	0.54
1:A:4800:LEU:CD2	1:A:4801:LEU:CD2	2.85	0.54
1:A:4852:THR:HG1	1:A:4886:HIS:CG	2.22	0.54
1:A:4184:MET:CB	1:A:5021:PHE:HB2	2.38	0.54
1:A:918:ARG:N	1:A:919:ASN:CB	2.70	0.54
1:A:918:ARG:CB	1:A:921:ASN:CB	2.85	0.54
1:B:181:HIS:CB	1:B:182:LEU:CA	2.85	0.54
1:B:2453:ILE:H	1:B:2456:ILE:H	1.55	0.54
1:B:4832:HIS:HD1	1:B:4833:ASN:CG	2.08	0.54
1:B:4834:GLY:HA2	1:B:4837:LEU:CB	2.36	0.54
1:C:2454:ARG:C	1:C:2454:ARG:HD2	2.28	0.54
1:D:173:SER:CB	1:D:174:VAL:CB	2.85	0.54
1:D:2168:VAL:CB	1:D:2169:GLN:CB	2.86	0.54
1:D:4719:PHE:CD1	1:D:4719:PHE:N	2.73	0.54
1:A:148:TRP:CA	1:A:149:THR:CB	2.85	0.54
1:A:4556:SER:O	1:A:4559:PHE:N	2.40	0.54
1:A:4696:ASP:C	1:A:4697:VAL:CG2	2.71	0.54
1:A:4719:PHE:CD1	1:A:4719:PHE:N	2.73	0.54
1:B:131:LEU:O	1:B:132:ALA:HB3	2.08	0.54
1:B:148:TRP:CA	1:B:149:THR:CB	2.85	0.54
1:B:252:VAL:N	1:B:253:CYS:CB	2.70	0.54
1:B:4656:LEU:O	1:B:4659:ILE:HG22	2.06	0.54
1:B:4719:PHE:CD1	1:B:4719:PHE:N	2.73	0.54
1:B:918:ARG:N	1:B:919:ASN:CB	2.70	0.54
1:C:1564:PHE:N	1:C:1564:PHE:CD1	2.76	0.54
1:C:4947:GLN:OE1	1:C:4948:GLU:N	2.40	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4995:LEU:CD1	1:C:5011:TRP:HZ3	2.12	0.54
1:C:535:ALA:O	1:C:538:ALA:N	2.39	0.54
1:D:1112:ASP:CB	1:D:1608:MET:H	2.21	0.54
1:D:1126:GLY:HA3	1:D:1143:TRP:CB	2.38	0.54
1:D:2274:ASP:CB	1:D:2277:ALA:CB	2.85	0.54
1:D:4180:ARG:CA	1:D:4181:ILE:CB	2.85	0.54
1:D:4908:GLU:CB	1:D:4909:TYR:CA	2.85	0.54
1:D:4982:GLU:CB	1:D:4983:HIS:CB	2.83	0.54
1:D:4184:MET:CB	1:D:5021:PHE:HB2	2.38	0.54
1:D:918:ARG:N	1:D:919:ASN:CB	2.70	0.54
1:A:2454:ARG:HD2	1:A:2454:ARG:C	2.28	0.54
1:A:4697:VAL:N	1:A:4698:LYS:CB	2.71	0.54
1:B:1160:ILE:O	1:B:1178:ALA:HB1	2.08	0.54
1:B:1164:LEU:C	1:B:1166:GLY:N	2.61	0.54
1:B:1825:HIS:O	1:B:1826:ALA:HB3	2.07	0.54
1:B:4184:MET:CB	1:B:5021:PHE:HB2	2.38	0.54
1:C:2105:TRP:CZ3	1:C:2106:ALA:HA	2.42	0.54
1:C:2518:LEU:O	1:C:2522:LEU:N	2.41	0.54
1:D:1164:LEU:C	1:D:1166:GLY:N	2.61	0.54
1:D:2454:ARG:HD2	1:D:2454:ARG:C	2.28	0.54
1:D:2529:ASP:O	1:D:2531:ARG:N	2.40	0.54
1:D:3902:TYR:CD1	1:D:3906:GLN:CB	2.90	0.54
1:D:3937:TYR:O	1:D:3939:GLY:N	2.33	0.54
1:D:41:GLY:O	1:D:44:ASN:C	2.46	0.54
1:D:4780:PHE:HA	1:D:4783:ILE:CG2	2.38	0.54
1:D:4932:ILE:HG23	1:D:4933:GLN:N	2.23	0.54
1:A:1112:ASP:CB	1:A:1608:MET:H	2.21	0.54
1:A:4088:ILE:C	1:A:4089:SER:O	2.44	0.54
1:A:4559:PHE:CD1	1:A:4560:TYR:N	2.75	0.54
1:A:4182:GLU:OE1	1:A:4988:TYR:CG	2.61	0.54
1:B:112:ALA:N	1:B:113:HIS:O	2.40	0.54
1:B:168:ASP:CB	1:B:169:LEU:CA	2.82	0.54
1:B:2454:ARG:C	1:B:2454:ARG:HD2	2.28	0.54
1:B:2495:VAL:CB	1:B:2496:PRO:CD	2.85	0.54
1:B:2529:ASP:O	1:B:2531:ARG:N	2.40	0.54
1:B:4697:VAL:N	1:B:4699:GLY:H	1.94	0.54
1:C:1164:LEU:N	1:C:1167:GLU:O	2.41	0.54
1:C:1297:PHE:N	1:C:1297:PHE:CG	2.73	0.54
1:C:2168:VAL:CB	1:C:2169:GLN:CB	2.86	0.54
1:D:1252:HIS:CB	1:D:1255:TYR:CA	2.85	0.54
1:D:1461:ASP:CA	1:D:1462:MET:CB	2.84	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1290:ARG:HA	1:D:1551:ALA:CB	2.34	0.54
1:D:181:HIS:CB	1:D:182:LEU:CA	2.85	0.54
1:D:4697:VAL:N	1:D:4698:LYS:CB	2.71	0.54
1:A:1246:GLU:C	1:A:1601:MET:O	2.46	0.54
1:A:4780:PHE:HA	1:A:4783:ILE:CG2	2.37	0.54
1:B:1246:GLU:C	1:B:1601:MET:O	2.46	0.54
1:B:1112:ASP:CB	1:B:1608:MET:H	2.21	0.54
1:B:4554:TYR:O	1:B:4556:SER:N	2.41	0.54
1:C:1112:ASP:CB	1:C:1608:MET:H	2.21	0.54
1:C:131:LEU:O	1:C:132:ALA:HB3	2.08	0.54
1:C:173:SER:CB	1:C:174:VAL:CB	2.85	0.54
1:C:378:LEU:CB	1:C:379:HIS:CA	2.84	0.54
1:C:3902:TYR:CD1	1:C:3906:GLN:CB	2.90	0.54
1:D:1160:ILE:O	1:D:1178:ALA:HB1	2.08	0.54
1:A:112:ALA:N	1:A:113:HIS:O	2.40	0.53
1:A:1164:LEU:C	1:A:1166:GLY:N	2.61	0.53
1:A:2102:VAL:CA	1:A:2105:TRP:CD1	2.84	0.53
1:A:2274:ASP:CB	1:A:2277:ALA:CB	2.85	0.53
1:A:2274:ASP:CB	1:A:2277:ALA:HB3	2.38	0.53
1:A:2451:LEU:O	1:A:2454:ARG:HB3	2.07	0.53
1:B:2451:LEU:C	1:B:2454:ARG:H	2.12	0.53
1:B:439:GLU:H	1:B:442:ILE:H	1.54	0.53
1:B:4928:LEU:O	1:B:4931:ILE:HD13	2.07	0.53
1:C:2495:VAL:CB	1:C:2496:PRO:CD	2.86	0.53
1:C:4197:ILE:CD1	1:C:4990:PHE:CG	2.90	0.53
1:C:4729:GLY:CA	1:C:4732:PHE:CB	2.85	0.53
1:C:4908:GLU:CB	1:C:4909:TYR:CB	2.85	0.53
1:D:4834:GLY:HA2	1:D:4837:LEU:H	1.74	0.53
1:A:4008:SER:N	1:A:4009:GLN:CA	2.71	0.53
1:A:4105:GLY:N	1:A:4106:PRO:HD2	2.22	0.53
1:A:4960:ILE:N	1:A:4961:CYS:CB	2.71	0.53
1:B:4575:PHE:HD1	1:B:4576:ILE:N	2.04	0.53
1:B:4960:ILE:N	1:B:4961:CYS:CB	2.71	0.53
1:B:918:ARG:CB	1:B:921:ASN:CB	2.85	0.53
1:C:1124:PHE:CA	1:C:1131:ARG:CA	2.52	0.53
1:C:1246:GLU:C	1:C:1601:MET:O	2.46	0.53
1:C:148:TRP:CA	1:C:149:THR:CB	2.85	0.53
1:C:2200:ALA:C	1:C:2202:GLY:N	2.58	0.53
1:C:4156:HIS:CB	1:C:4157:ASP:CA	2.85	0.53
1:C:4928:LEU:O	1:C:4931:ILE:HD13	2.07	0.53
1:D:1825:HIS:O	1:D:1826:ALA:HB3	2.07	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:4150:LEU:HD12	1:D:4150:LEU:C	2.29	0.53
1:D:4686:LEU:CB	1:D:4692:PRO:CG	2.81	0.53
1:A:1133:HIS:N	1:A:1134:LEU:HA	2.23	0.53
1:A:2451:LEU:C	1:A:2454:ARG:H	2.12	0.53
1:A:4857:ASN:C	1:A:4858:PHE:CD1	2.80	0.53
1:B:2105:TRP:CZ3	1:B:2106:ALA:HA	2.42	0.53
1:B:2452:ARG:N	1:B:2453:ILE:CB	2.71	0.53
1:B:4008:SER:N	1:B:4009:GLN:CA	2.71	0.53
1:B:4677:LEU:CD2	1:B:4711:PHE:CE2	2.90	0.53
1:C:2452:ARG:N	1:C:2453:ILE:CB	2.71	0.53
1:D:702:TRP:CD1	1:D:1640:HIS:CB	2.90	0.53
1:D:918:ARG:CB	1:D:921:ASN:CB	2.85	0.53
1:A:1093:GLU:O	1:A:1201:HIS:O	2.27	0.53
1:A:1164:LEU:N	1:A:1167:GLU:O	2.41	0.53
1:A:4141:PHE:CE1	1:A:4145:VAL:HG21	2.44	0.53
1:A:4834:GLY:HA2	1:A:4837:LEU:CB	2.36	0.53
1:B:1126:GLY:HA3	1:B:1143:TRP:CB	2.38	0.53
1:B:639:ASN:CA	1:B:1634:LEU:O	2.42	0.53
1:B:4932:ILE:HG23	1:B:4933:GLN:N	2.23	0.53
1:B:4829:SER:CB	1:B:4940:PHE:CD1	2.92	0.53
1:C:1133:HIS:N	1:C:1134:LEU:CA	2.72	0.53
1:C:1164:LEU:C	1:C:1166:GLY:N	2.61	0.53
1:C:2274:ASP:CB	1:C:2277:ALA:HB3	2.38	0.53
1:C:4834:GLY:HA2	1:C:4837:LEU:H	1.74	0.53
1:D:1093:GLU:O	1:D:1201:HIS:O	2.27	0.53
1:D:2451:LEU:C	1:D:2454:ARG:H	2.12	0.53
1:D:2495:VAL:CB	1:D:2496:PRO:CD	2.85	0.53
1:A:1126:GLY:HA3	1:A:1143:TRP:CB	2.38	0.53
1:A:1252:HIS:CB	1:A:1255:TYR:CA	2.85	0.53
1:A:1564:PHE:N	1:A:1564:PHE:CD1	2.76	0.53
1:A:2191:PHE:C	1:A:2191:PHE:CD1	2.82	0.53
1:A:4677:LEU:CD2	1:A:4711:PHE:CE2	2.90	0.53
1:B:2168:VAL:CB	1:B:2169:GLN:CB	2.86	0.53
1:B:2274:ASP:CB	1:B:2277:ALA:HB3	2.38	0.53
1:B:227:MET:O	1:B:229:GLU:N	2.39	0.53
1:B:4928:LEU:CA	1:B:4931:ILE:CD1	2.84	0.53
1:C:1133:HIS:N	1:C:1134:LEU:HA	2.24	0.53
1:C:3810:ALA:O	1:C:3811:GLU:C	2.47	0.53
1:C:4089:SER:CA	1:C:4121:GLU:O	2.54	0.53
1:C:4125:PHE:O	1:C:4126:GLU:C	2.46	0.53
1:C:4141:PHE:CE1	1:C:4145:VAL:HG21	2.44	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4697:VAL:N	1:C:4698:LYS:CB	2.71	0.53
1:D:119:SER:H	1:D:137:LEU:HA	1.74	0.53
1:D:1719:HIS:N	1:D:1720:LEU:CA	2.72	0.53
1:D:3934:TYR:HD1	1:D:3935:TRP:HE3	1.57	0.53
1:D:4960:ILE:N	1:D:4961:CYS:CB	2.71	0.53
1:A:1461:ASP:CA	1:A:1462:MET:CB	2.84	0.53
1:A:1643:GLU:N	1:A:1644:GLU:HA	2.24	0.53
1:A:181:HIS:CB	1:A:182:LEU:CA	2.85	0.53
1:A:4932:ILE:HG23	1:A:4933:GLN:N	2.23	0.53
1:B:4697:VAL:N	1:B:4698:LYS:CB	2.71	0.53
1:C:1461:ASP:CA	1:C:1462:MET:CB	2.84	0.53
1:C:2109:ASP:O	1:C:2110:TYR:HB3	2.09	0.53
1:C:2191:PHE:CD1	1:C:2191:PHE:C	2.82	0.53
1:C:2451:LEU:C	1:C:2454:ARG:H	2.12	0.53
1:C:4008:SER:N	1:C:4009:GLN:CA	2.71	0.53
1:C:4861:LYS:O	1:C:4862:PHE:HD1	1.92	0.53
1:C:73:LEU:O	1:C:105:HIS:C	2.46	0.53
1:D:1246:GLU:C	1:D:1601:MET:O	2.46	0.53
1:D:131:LEU:O	1:D:132:ALA:HB3	2.07	0.53
1:D:2274:ASP:CB	1:D:2277:ALA:HB3	2.38	0.53
1:D:4554:TYR:O	1:D:4556:SER:N	2.41	0.53
1:D:681:HIS:O	1:D:784:SER:N	2.37	0.53
1:D:789:VAL:O	1:D:1627:ALA:HA	2.03	0.53
1:A:131:LEU:O	1:A:132:ALA:HB3	2.07	0.53
1:A:378:LEU:CB	1:A:379:HIS:CA	2.84	0.53
1:A:3934:TYR:HD1	1:A:3935:TRP:HE3	1.57	0.53
1:A:4697:VAL:CA	1:A:4698:LYS:CB	2.87	0.53
1:A:4834:GLY:HA2	1:A:4837:LEU:H	1.74	0.53
1:A:4968:PHE:CD2	1:A:4978:HIS:HB3	2.40	0.53
1:A:596:ASN:C	1:A:598:LYS:N	2.62	0.53
1:B:1461:ASP:CA	1:B:1462:MET:CB	2.84	0.53
1:B:212:GLY:N	1:B:213:TYR:CB	2.72	0.53
1:B:2592:GLY:H	1:B:2595:LEU:N	1.92	0.53
1:B:3562:LYS:O	1:B:3565:GLY:N	2.42	0.53
1:C:4181:ILE:CG2	1:C:4193:ILE:N	2.72	0.53
1:C:4575:PHE:HD1	1:C:4576:ILE:N	2.04	0.53
1:C:4719:PHE:N	1:C:4719:PHE:CD1	2.73	0.53
1:D:168:ASP:CB	1:D:169:LEU:CA	2.82	0.53
1:D:4697:VAL:CA	1:D:4698:LYS:CB	2.87	0.53
1:A:1160:ILE:O	1:A:1178:ALA:HB1	2.08	0.53
1:A:4829:SER:CB	1:A:4940:PHE:CD1	2.92	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1133:HIS:N	1:B:1134:LEU:HA	2.23	0.53
1:B:1164:LEU:N	1:B:1167:GLU:O	2.41	0.53
1:B:1093:GLU:O	1:B:1201:HIS:O	2.27	0.53
1:B:1631:GLN:O	1:B:1632:ASP:CB	2.57	0.53
1:B:2109:ASP:O	1:B:2110:TYR:HB3	2.09	0.53
1:B:4773:VAL:O	1:B:4774:LYS:C	2.47	0.53
1:B:4954:MET:C	1:B:4954:MET:HE3	2.29	0.53
1:C:786:GLY:HA2	1:C:1630:CYS:O	2.09	0.53
1:C:4932:ILE:HG23	1:C:4933:GLN:N	2.23	0.53
1:C:500:ALA:CB	1:C:515:TRP:HH2	2.20	0.53
1:D:1133:HIS:N	1:D:1134:LEU:CA	2.72	0.53
1:D:1164:LEU:N	1:D:1167:GLU:O	2.41	0.53
1:D:1163:THR:CA	1:D:1168:VAL:HA	2.37	0.53
1:D:1276:THR:CB	1:D:1563:GLN:CA	2.87	0.53
1:D:4729:GLY:HA3	1:D:4737:ILE:HD11	1.91	0.53
1:D:509:GLU:O	1:D:510:GLU:C	2.46	0.53
1:D:596:ASN:C	1:D:598:LYS:N	2.62	0.53
1:A:2109:ASP:O	1:A:2110:TYR:HB3	2.09	0.53
1:A:786:GLY:HA2	1:A:1630:CYS:O	2.09	0.53
1:B:2191:PHE:CD1	1:B:2191:PHE:C	2.82	0.53
1:B:27:THR:CB	1:B:32:GLN:CA	2.85	0.53
1:B:3792:ALA:O	1:B:3796:SER:N	2.41	0.53
1:B:4823:LEU:HD13	1:B:4824:ARG:N	2.24	0.53
1:B:4857:ASN:O	1:B:4858:PHE:HD1	1.87	0.53
1:A:4918:ILE:HA	1:B:4891:VAL:HG11	0.66	0.53
1:B:4967:TYR:OH	1:B:5030:LYS:CA	2.57	0.53
1:C:1093:GLU:O	1:C:1201:HIS:O	2.27	0.53
1:C:3562:LYS:O	1:C:3565:GLY:N	2.42	0.53
1:C:4632:LEU:N	1:C:4633:GLU:CB	2.72	0.53
1:B:4931:ILE:HG22	1:C:4936:ILE:HD11	1.91	0.53
1:C:681:HIS:O	1:C:784:SER:N	2.37	0.53
1:D:1073:ARG:O	1:D:1194:LEU:N	2.42	0.53
1:D:3562:LYS:O	1:D:3565:GLY:N	2.42	0.53
1:D:5016:GLU:C	1:D:5017:ARG:O	2.42	0.53
1:D:546:TRP:CE3	1:D:547:VAL:CA	2.92	0.53
1:A:119:SER:H	1:A:137:LEU:HA	1.74	0.53
1:A:212:GLY:N	1:A:213:TYR:CB	2.72	0.53
1:A:4125:PHE:O	1:A:4126:GLU:C	2.46	0.53
1:A:4554:TYR:O	1:A:4556:SER:N	2.41	0.53
1:A:4823:LEU:HD13	1:A:4824:ARG:N	2.24	0.53
1:A:4944:ARG:NH2	1:D:4942:GLU:HA	2.24	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:5021:PHE:CZ	1:A:5022:PHE:CD1	2.97	0.53
1:A:668:VAL:HA	1:A:789:VAL:HA	1.91	0.53
1:B:1133:HIS:N	1:B:1134:LEU:CA	2.72	0.53
1:B:3679:LYS:C	1:B:3698:LEU:CB	2.78	0.53
1:B:378:LEU:CB	1:B:379:HIS:CA	2.84	0.53
1:B:4181:ILE:CG2	1:B:4193:ILE:N	2.72	0.53
1:C:1719:HIS:N	1:C:1720:LEU:CA	2.72	0.53
1:C:212:GLY:N	1:C:213:TYR:CB	2.72	0.53
1:C:2362:GLU:N	1:C:2363:CYS:CB	2.72	0.53
1:C:27:THR:CB	1:C:32:GLN:CA	2.85	0.53
1:C:4654:ALA:HA	1:C:4657:CYS:SG	2.49	0.53
1:C:4823:LEU:HD13	1:C:4824:ARG:N	2.24	0.53
1:C:509:GLU:O	1:C:510:GLU:C	2.46	0.53
1:D:2200:ALA:C	1:D:2202:GLY:N	2.58	0.53
1:D:4141:PHE:CE1	1:D:4145:VAL:HG21	2.44	0.53
1:D:4552:LEU:O	1:D:4555:LEU:CB	2.57	0.53
1:D:4632:LEU:N	1:D:4633:GLU:CB	2.72	0.53
1:D:4696:ASP:C	1:D:4697:VAL:CG2	2.71	0.53
1:D:4908:GLU:CB	1:D:4910:GLU:N	2.72	0.53
1:D:668:VAL:HA	1:D:789:VAL:HA	1.91	0.53
1:A:1454:THR:N	1:A:1457:TYR:CB	2.73	0.52
1:A:1719:HIS:N	1:A:1720:LEU:CA	2.72	0.52
1:A:3106:MET:O	1:A:3110:LEU:N	2.36	0.52
1:A:3286:GLU:O	1:A:3289:PRO:CB	2.58	0.52
1:A:3679:LYS:C	1:A:3698:LEU:CB	2.78	0.52
1:A:404:ILE:CB	1:A:478:PHE:HE1	2.22	0.52
1:A:4183:ILE:CG2	1:A:4191:GLU:C	2.54	0.52
1:A:4570:ALA:HB2	1:A:4650:HIS:HE1	1.74	0.52
1:A:4729:GLY:HA3	1:A:4737:ILE:HD11	1.91	0.52
1:A:4967:TYR:OH	1:A:5030:LYS:CA	2.57	0.52
1:B:3934:TYR:HD1	1:B:3935:TRP:HE3	1.57	0.52
1:B:4089:SER:CA	1:B:4121:GLU:O	2.54	0.52
1:B:4141:PHE:CE1	1:B:4145:VAL:HG21	2.44	0.52
1:B:4632:LEU:N	1:B:4633:GLU:CB	2.72	0.52
1:C:1631:GLN:O	1:C:1632:ASP:CB	2.57	0.52
1:C:3286:GLU:O	1:C:3289:PRO:CB	2.58	0.52
1:C:4181:ILE:CG2	1:C:4182:GLU:N	2.67	0.52
1:C:4960:ILE:N	1:C:4961:CYS:CB	2.71	0.52
1:D:2109:ASP:O	1:D:2110:TYR:HB3	2.09	0.52
1:D:379:HIS:N	1:D:380:GLN:CA	2.72	0.52
1:D:4008:SER:N	1:D:4009:GLN:CA	2.71	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:4861:LYS:O	1:D:4862:PHE:HD1	1.92	0.52
1:A:3562:LYS:O	1:A:3565:GLY:N	2.42	0.52
1:A:4125:PHE:O	1:A:4128:PHE:HB2	2.10	0.52
1:A:4552:LEU:O	1:A:4555:LEU:CB	2.57	0.52
1:A:4686:LEU:CB	1:A:4692:PRO:CG	2.81	0.52
1:A:4697:VAL:CG2	1:A:4698:LYS:CB	2.85	0.52
1:B:786:GLY:HA2	1:B:1630:CYS:O	2.09	0.52
1:B:2529:ASP:O	1:B:2530:MET:C	2.47	0.52
1:B:4656:LEU:HD22	1:B:4656:LEU:C	2.23	0.52
1:B:5021:PHE:CZ	1:B:5022:PHE:CD1	2.97	0.52
1:C:1454:THR:N	1:C:1457:TYR:CB	2.73	0.52
1:C:3934:TYR:HD1	1:C:3935:TRP:HE3	1.57	0.52
1:C:4697:VAL:CA	1:C:4698:LYS:CB	2.87	0.52
1:C:4729:GLY:HA3	1:C:4737:ILE:HD11	1.91	0.52
1:C:546:TRP:CE3	1:C:547:VAL:CA	2.92	0.52
1:D:1297:PHE:CG	1:D:1297:PHE:N	2.73	0.52
1:D:4125:PHE:O	1:D:4128:PHE:HB2	2.10	0.52
1:D:4863:TYR:CD1	1:D:4864:ASN:N	2.73	0.52
1:D:4944:ARG:HD2	1:D:4944:ARG:C	2.30	0.52
1:D:4952:GLU:O	1:D:4956:THR:HG23	2.09	0.52
1:A:2329:GLU:CB	1:A:2429:LEU:CB	2.87	0.52
1:A:5016:GLU:C	1:A:5017:ARG:O	2.42	0.52
1:B:25:SER:O	1:B:26:ALA:C	2.47	0.52
1:B:4570:ALA:HB2	1:B:4650:HIS:HE1	1.74	0.52
1:B:4908:GLU:CB	1:B:4910:GLU:N	2.72	0.52
1:B:5010:VAL:CG2	1:B:5011:TRP:N	2.73	0.52
1:C:227:MET:O	1:C:229:GLU:N	2.39	0.52
1:C:4554:TYR:O	1:C:4556:SER:N	2.41	0.52
1:C:4685:GLY:N	1:C:4689:THR:CB	2.72	0.52
1:C:4729:GLY:N	1:C:4730:ASP:CB	2.73	0.52
1:C:5010:VAL:CG2	1:C:5011:TRP:N	2.73	0.52
1:C:4967:TYR:OH	1:C:5030:LYS:CA	2.57	0.52
1:D:212:GLY:N	1:D:213:TYR:CB	2.72	0.52
1:D:2191:PHE:CD1	1:D:2191:PHE:C	2.82	0.52
1:D:2191:PHE:CD1	1:D:2192:TYR:CE1	2.98	0.52
1:D:2362:GLU:N	1:D:2363:CYS:CB	2.72	0.52
1:D:4852:THR:HG1	1:D:4886:HIS:CG	2.23	0.52
1:D:4885:PHE:CZ	1:D:4889:VAL:CG1	2.89	0.52
1:A:1133:HIS:N	1:A:1134:LEU:CA	2.72	0.52
1:A:1631:GLN:O	1:A:1632:ASP:CB	2.57	0.52
1:A:25:SER:O	1:A:26:ALA:C	2.47	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:4729:GLY:N	1:B:4730:ASP:CB	2.73	0.52
1:B:4834:GLY:HA2	1:B:4837:LEU:H	1.73	0.52
1:B:4857:ASN:C	1:B:4858:PHE:CD1	2.80	0.52
1:B:4924:VAL:CG2	1:B:4925:ILE:N	2.73	0.52
1:C:119:SER:H	1:C:137:LEU:HA	1.74	0.52
1:C:2529:ASP:O	1:C:2530:MET:C	2.47	0.52
1:C:4552:LEU:O	1:C:4555:LEU:CB	2.57	0.52
1:C:4863:TYR:CD1	1:C:4864:ASN:N	2.73	0.52
1:C:4930:ALA:HB3	1:D:4936:ILE:CD1	2.24	0.52
1:C:4928:LEU:CA	1:C:4931:ILE:CD1	2.84	0.52
1:C:668:VAL:HA	1:C:789:VAL:HA	1.92	0.52
1:D:3286:GLU:O	1:D:3289:PRO:CB	2.58	0.52
1:D:4125:PHE:O	1:D:4126:GLU:C	2.46	0.52
1:D:4697:VAL:N	1:D:4699:GLY:H	1.94	0.52
1:D:4829:SER:CB	1:D:4940:PHE:CD1	2.92	0.52
1:D:786:GLY:HA2	1:D:1630:CYS:O	2.09	0.52
1:A:4654:ALA:HA	1:A:4657:CYS:SG	2.49	0.52
1:A:4926:VAL:CG1	1:A:4927:ILE:N	2.72	0.52
1:A:4944:ARG:NH2	1:D:4942:GLU:CA	2.73	0.52
1:B:2362:GLU:N	1:B:2363:CYS:CB	2.72	0.52
1:B:4644:TRP:CZ3	1:B:4645:CYS:HA	2.45	0.52
1:B:4885:PHE:CZ	1:B:4889:VAL:CG1	2.89	0.52
1:C:4889:VAL:CG2	1:C:4890:GLY:N	2.73	0.52
1:C:4924:VAL:CG2	1:C:4925:ILE:N	2.73	0.52
1:D:1631:GLN:O	1:D:1632:ASP:CB	2.57	0.52
1:D:2529:ASP:O	1:D:2530:MET:C	2.47	0.52
1:D:404:ILE:CB	1:D:478:PHE:HE1	2.22	0.52
1:D:4156:HIS:CB	1:D:4157:ASP:CA	2.85	0.52
1:D:73:LEU:O	1:D:105:HIS:C	2.46	0.52
1:A:1073:ARG:O	1:A:1194:LEU:N	2.42	0.52
1:A:3933:PHE:CE2	1:A:3951:PHE:HB2	2.45	0.52
1:A:4644:TRP:CZ3	1:A:4645:CYS:HA	2.45	0.52
1:A:4729:GLY:CA	1:A:4732:PHE:CB	2.85	0.52
1:A:4184:MET:CA	1:A:5021:PHE:O	2.46	0.52
1:B:1454:THR:N	1:B:1457:TYR:CB	2.73	0.52
1:B:348:VAL:CB	1:B:349:GLN:CA	2.85	0.52
1:B:4125:PHE:O	1:B:4128:PHE:HB2	2.10	0.52
1:B:4729:GLY:HA3	1:B:4737:ILE:HD11	1.91	0.52
1:B:483:MET:C	1:B:485:SER:N	2.63	0.52
1:C:1244:GLN:O	1:C:1604:SER:CA	2.58	0.52
1:C:379:HIS:N	1:C:380:GLN:CA	2.72	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4125:PHE:O	1:C:4128:PHE:HB2	2.10	0.52
1:D:3679:LYS:C	1:D:3698:LEU:CB	2.78	0.52
1:D:4644:TRP:CZ3	1:D:4645:CYS:HA	2.45	0.52
1:D:4654:ALA:HA	1:D:4657:CYS:SG	2.49	0.52
1:D:4697:VAL:CG2	1:D:4698:LYS:CB	2.85	0.52
1:D:4651:THR:OG1	1:D:4799:SER:OG	2.28	0.52
1:D:483:MET:C	1:D:485:SER:N	2.63	0.52
1:D:4857:ASN:O	1:D:4858:PHE:HD1	1.87	0.52
1:D:4926:VAL:CG1	1:D:4927:ILE:N	2.72	0.52
1:D:4967:TYR:OH	1:D:5030:LYS:CA	2.57	0.52
1:A:2191:PHE:CD1	1:A:2192:TYR:CE1	2.98	0.52
1:A:2342:ASN:CB	1:A:2343:GLY:CA	2.88	0.52
1:A:2518:LEU:O	1:A:2522:LEU:N	2.41	0.52
1:A:2691:TYR:N	1:A:2694:GLU:CB	2.73	0.52
1:A:4889:VAL:CG2	1:A:4890:GLY:N	2.73	0.52
1:A:4936:ILE:HD11	1:D:4931:ILE:HG22	1.92	0.52
1:B:3933:PHE:CE2	1:B:3951:PHE:HB2	2.45	0.52
1:B:4697:VAL:CA	1:B:4698:LYS:CB	2.87	0.52
1:C:788:LYS:CB	1:C:1629:GLN:HA	2.39	0.52
1:C:1643:GLU:N	1:C:1644:GLU:HA	2.24	0.52
1:C:4668:LEU:HD12	1:C:4668:LEU:C	2.30	0.52
1:C:485:SER:C	1:C:487:VAL:N	2.63	0.52
1:C:609:CYS:N	1:C:610:ASN:CB	2.73	0.52
1:D:1133:HIS:N	1:D:1134:LEU:HA	2.23	0.52
1:D:1244:GLN:O	1:D:1604:SER:CA	2.58	0.52
1:D:27:THR:CB	1:D:32:GLN:CA	2.85	0.52
1:D:3810:ALA:O	1:D:3811:GLU:C	2.47	0.52
1:D:4773:VAL:O	1:D:4774:LYS:C	2.47	0.52
1:D:4197:ILE:CD1	1:D:4990:PHE:CG	2.90	0.52
1:A:1244:GLN:O	1:A:1604:SER:CA	2.57	0.52
1:A:485:SER:C	1:A:487:VAL:N	2.63	0.52
1:A:4908:GLU:CB	1:A:4910:GLU:N	2.72	0.52
1:A:4936:ILE:CG2	1:A:4937:ILE:N	2.73	0.52
1:B:2191:PHE:CD1	1:B:2192:TYR:CE1	2.98	0.52
1:B:3679:LYS:O	1:B:3698:LEU:CB	2.58	0.52
1:B:4715:TYR:CE1	1:B:4717:ASP:CB	2.93	0.52
1:B:4889:VAL:CG2	1:B:4890:GLY:N	2.73	0.52
1:C:1290:ARG:HA	1:C:1551:ALA:CB	2.34	0.52
1:C:3679:LYS:O	1:C:3698:LEU:CB	2.58	0.52
1:C:4638:TYR:C	1:C:4641:PRO:HD2	2.30	0.52
1:D:4183:ILE:HG22	1:D:4190:ILE:C	2.30	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:4729:GLY:CA	1:D:4732:PHE:CB	2.85	0.52
1:D:4823:LEU:HD13	1:D:4824:ARG:N	2.24	0.52
1:D:509:GLU:C	1:D:511:ALA:H	2.13	0.52
1:A:2362:GLU:N	1:A:2363:CYS:CB	2.72	0.52
1:A:379:HIS:N	1:A:380:GLN:CA	2.72	0.52
1:A:4924:VAL:CG2	1:A:4925:ILE:N	2.73	0.52
1:A:4952:GLU:O	1:A:4956:THR:HG23	2.10	0.52
1:B:1708:ARG:O	1:B:1712:TYR:HD2	1.93	0.52
1:B:4638:TYR:C	1:B:4641:PRO:HD2	2.30	0.52
1:B:4654:ALA:HA	1:B:4657:CYS:SG	2.49	0.52
1:B:4926:VAL:CG1	1:B:4927:ILE:N	2.72	0.52
1:B:4968:PHE:HD2	1:B:4978:HIS:HB2	1.71	0.52
1:B:5008:SER:O	1:B:5011:TRP:HB3	2.10	0.52
1:B:668:VAL:HA	1:B:789:VAL:HA	1.91	0.52
1:C:1272:LEU:CA	1:C:1273:ALA:CB	2.84	0.52
1:C:1287:LEU:CB	1:C:1553:PHE:CB	2.88	0.52
1:C:2342:ASN:CB	1:C:2343:GLY:CA	2.88	0.52
1:C:4644:TRP:CZ3	1:C:4645:CYS:HA	2.45	0.52
1:C:4936:ILE:HG23	1:C:4937:ILE:H	1.75	0.52
1:D:1287:LEU:CB	1:D:1553:PHE:CB	2.88	0.52
1:D:2340:PHE:O	1:D:2341:VAL:CB	2.58	0.52
1:D:2342:ASN:CB	1:D:2343:GLY:CA	2.88	0.52
1:D:2329:GLU:CB	1:D:2429:LEU:CB	2.87	0.52
1:D:609:CYS:CB	1:D:610:ASN:HA	2.40	0.52
1:A:1093:GLU:CA	1:A:1201:HIS:O	2.58	0.52
1:A:151:HIS:O	1:A:152:PRO:C	2.46	0.52
1:A:4632:LEU:N	1:A:4633:GLU:CB	2.72	0.52
1:A:4960:ILE:CB	1:A:4983:HIS:HB3	2.40	0.52
1:A:5010:VAL:CG2	1:A:5011:TRP:N	2.73	0.52
1:B:1073:ARG:O	1:B:1194:LEU:N	2.42	0.52
1:B:119:SER:H	1:B:137:LEU:HA	1.74	0.52
1:B:1643:GLU:N	1:B:1644:GLU:HA	2.24	0.52
1:B:1719:HIS:N	1:B:1720:LEU:CA	2.72	0.52
1:B:3810:ALA:O	1:B:3811:GLU:C	2.47	0.52
1:B:404:ILE:CB	1:B:478:PHE:HE1	2.23	0.52
1:B:4150:LEU:C	1:B:4150:LEU:HD12	2.29	0.52
1:B:4954:MET:HE1	1:B:4955:GLU:HA	1.92	0.52
1:B:4957:LYS:C	1:B:4964:GLY:HA3	2.30	0.52
1:B:4995:LEU:CD1	1:B:5011:TRP:HZ3	2.12	0.52
1:B:546:TRP:CE3	1:B:547:VAL:CA	2.92	0.52
1:C:1252:HIS:CB	1:C:1255:TYR:CA	2.85	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2191:PHE:CD1	1:C:2192:TYR:CE1	2.98	0.52
1:C:3679:LYS:C	1:C:3698:LEU:CB	2.78	0.52
1:C:4908:GLU:CB	1:C:4910:GLU:N	2.72	0.52
1:C:4930:ALA:HB1	1:D:4936:ILE:CG2	2.14	0.52
1:D:639:ASN:CA	1:D:1634:LEU:O	2.42	0.52
1:D:3679:LYS:O	1:D:3698:LEU:CB	2.58	0.52
1:D:4960:ILE:CB	1:D:4983:HIS:HB3	2.40	0.52
1:D:5010:VAL:CG2	1:D:5011:TRP:N	2.73	0.52
1:A:4664:LEU:C	1:A:4664:LEU:HD22	2.30	0.51
1:A:546:TRP:CE3	1:A:547:VAL:CA	2.92	0.51
1:B:3765:TYR:HE1	1:B:3769:ARG:NH1	2.08	0.51
1:B:379:HIS:N	1:B:380:GLN:CA	2.72	0.51
1:B:4697:VAL:CG2	1:B:4698:LYS:CB	2.85	0.51
1:A:4930:ALA:HB1	1:B:4936:ILE:HD12	1.80	0.51
1:B:609:CYS:N	1:B:610:ASN:CB	2.73	0.51
1:C:1125:ASN:N	1:C:1130:GLN:O	2.43	0.51
1:C:4104:THR:O	1:C:4108:ILE:N	2.42	0.51
1:C:4925:ILE:H	1:C:4925:ILE:CD1	2.18	0.51
1:C:74:SER:O	1:C:77:ALA:N	2.43	0.51
1:D:1708:ARG:O	1:D:1712:TYR:HD2	1.93	0.51
1:D:1803:PRO:O	1:D:1807:LEU:N	2.37	0.51
1:D:2452:ARG:CA	1:D:2453:ILE:CB	2.88	0.51
1:D:4103:PHE:HB3	1:D:4108:ILE:HG22	1.92	0.51
1:D:4729:GLY:N	1:D:4730:ASP:CB	2.73	0.51
1:D:5008:SER:O	1:D:5011:TRP:HB3	2.10	0.51
1:D:503:PHE:O	1:D:504:ALA:HB3	2.10	0.51
1:D:74:SER:O	1:D:77:ALA:N	2.43	0.51
1:A:3934:TYR:CD1	1:A:3935:TRP:HE3	2.28	0.51
1:A:4729:GLY:N	1:A:4730:ASP:CB	2.73	0.51
1:A:500:ALA:HB1	1:A:515:TRP:CZ3	2.43	0.51
1:A:5023:PRO:O	1:A:5024:ALA:HB2	2.11	0.51
1:A:74:SER:O	1:A:77:ALA:N	2.43	0.51
1:B:1252:HIS:CB	1:B:1255:TYR:CA	2.85	0.51
1:B:2329:GLU:CB	1:B:2429:LEU:CB	2.87	0.51
1:B:4552:LEU:O	1:B:4555:LEU:CB	2.57	0.51
1:B:4960:ILE:CB	1:B:4983:HIS:HB3	2.40	0.51
1:B:500:ALA:CB	1:B:515:TRP:HH2	2.21	0.51
1:B:789:VAL:O	1:B:1627:ALA:HA	2.03	0.51
1:C:1073:ARG:O	1:C:1194:LEU:N	2.42	0.51
1:C:2329:GLU:CB	1:C:2429:LEU:CB	2.87	0.51
1:C:2340:PHE:O	1:C:2341:VAL:CB	2.58	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4008:SER:N	1:C:4009:GLN:HA	2.24	0.51
1:C:4132:PHE:CD1	1:C:4132:PHE:N	2.73	0.51
1:C:4849:TYR:CD1	1:C:4849:TYR:C	2.84	0.51
1:C:4946:GLN:O	1:C:4949:GLN:HB3	2.10	0.51
1:D:1125:ASN:N	1:D:1130:GLN:O	2.43	0.51
1:D:2691:TYR:N	1:D:2694:GLU:CB	2.73	0.51
1:D:4928:LEU:CA	1:D:4931:ILE:CD1	2.84	0.51
1:A:1708:ARG:O	1:A:1712:TYR:HD2	1.93	0.51
1:A:2920:ARG:HA	1:A:2923:ALA:HB3	1.92	0.51
1:A:483:MET:C	1:A:485:SER:N	2.63	0.51
1:A:4847:VAL:HG13	1:A:4848:VAL:N	2.26	0.51
1:A:609:CYS:CB	1:A:610:ASN:HA	2.40	0.51
1:B:1125:ASN:N	1:B:1130:GLN:O	2.43	0.51
1:B:1829:PRO:CB	1:B:1832:GLY:HA2	2.41	0.51
1:B:2920:ARG:HA	1:B:2923:ALA:HB3	1.92	0.51
1:B:5023:PRO:O	1:B:5024:ALA:HB2	2.11	0.51
1:C:1708:ARG:O	1:C:1712:TYR:HD2	1.93	0.51
1:C:3933:PHE:CE2	1:C:3951:PHE:HB2	2.45	0.51
1:C:4570:ALA:HB2	1:C:4650:HIS:HE1	1.74	0.51
1:C:4773:VAL:O	1:C:4774:LYS:C	2.47	0.51
1:C:5008:SER:O	1:C:5011:TRP:HB3	2.10	0.51
1:D:3933:PHE:CE2	1:D:3951:PHE:HB2	2.45	0.51
1:D:4125:PHE:HA	1:D:4128:PHE:HB2	1.93	0.51
1:D:4132:PHE:CD1	1:D:4132:PHE:N	2.73	0.51
1:D:4664:LEU:HD22	1:D:4664:LEU:C	2.30	0.51
1:D:4995:LEU:HD13	1:D:5011:TRP:CZ3	2.41	0.51
1:A:2340:PHE:O	1:A:2341:VAL:CB	2.58	0.51
1:A:4651:THR:HG1	1:A:4799:SER:CB	2.23	0.51
1:A:4849:TYR:C	1:A:4849:TYR:CD1	2.84	0.51
1:A:4930:ALA:HB1	1:B:4936:ILE:HD13	1.92	0.51
1:A:609:CYS:N	1:A:610:ASN:CB	2.73	0.51
1:B:1272:LEU:CA	1:B:1273:ALA:CB	2.84	0.51
1:B:1290:ARG:N	1:B:1551:ALA:CB	2.57	0.51
1:B:3286:GLU:O	1:B:3289:PRO:CB	2.58	0.51
1:B:3933:PHE:CZ	1:B:3951:PHE:CE2	2.85	0.51
1:B:4768:LEU:CD1	1:B:4769:MET:N	2.73	0.51
1:B:4849:TYR:CD1	1:B:4849:TYR:C	2.84	0.51
1:C:4960:ILE:CB	1:C:4983:HIS:HB3	2.40	0.51
1:D:1454:THR:N	1:D:1457:TYR:CB	2.73	0.51
1:D:1643:GLU:N	1:D:1644:GLU:HA	2.24	0.51
1:D:4773:VAL:HG12	1:D:4774:LYS:N	2.26	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:5021:PHE:CZ	1:D:5022:PHE:CD1	2.97	0.51
1:A:227:MET:O	1:A:229:GLU:N	2.39	0.51
1:A:3679:LYS:O	1:A:3698:LEU:CB	2.58	0.51
1:A:3765:TYR:HE1	1:A:3769:ARG:NH1	2.08	0.51
1:A:4140:GLY:C	1:A:4174:PHE:CE2	2.84	0.51
1:A:4181:ILE:CG2	1:A:4193:ILE:N	2.72	0.51
1:A:4995:LEU:CD1	1:A:5011:TRP:HZ3	2.16	0.51
1:B:4103:PHE:HB3	1:B:4108:ILE:HG22	1.92	0.51
1:B:4147:LEU:O	1:B:4147:LEU:HD13	2.11	0.51
1:B:4173:TYR:HD2	1:B:4174:PHE:CE1	2.29	0.51
1:B:4729:GLY:CA	1:B:4732:PHE:CB	2.85	0.51
1:B:485:SER:C	1:B:487:VAL:N	2.63	0.51
1:B:4936:ILE:HG23	1:B:4937:ILE:N	2.24	0.51
1:C:3933:PHE:CD1	1:C:3933:PHE:C	2.84	0.51
1:C:4697:VAL:N	1:C:4699:GLY:H	1.94	0.51
1:C:4829:SER:CB	1:C:4940:PHE:CD1	2.93	0.51
1:D:3934:TYR:CD1	1:D:3935:TRP:HE3	2.28	0.51
1:D:4008:SER:N	1:D:4009:GLN:HA	2.24	0.51
1:D:4715:TYR:CE1	1:D:4717:ASP:CB	2.92	0.51
1:A:1272:LEU:CA	1:A:1273:ALA:CB	2.84	0.51
1:A:2452:ARG:CA	1:A:2453:ILE:CB	2.88	0.51
1:A:4008:SER:N	1:A:4009:GLN:HA	2.24	0.51
1:A:404:ILE:CB	1:A:478:PHE:CZ	2.94	0.51
1:A:4104:THR:O	1:A:4108:ILE:N	2.42	0.51
1:A:4861:LYS:O	1:A:4862:PHE:HD1	1.92	0.51
1:A:4957:LYS:C	1:A:4964:GLY:HA3	2.30	0.51
1:B:1564:PHE:CD1	1:B:1564:PHE:N	2.76	0.51
1:B:2463:LEU:N	1:B:2464:ASP:CA	2.74	0.51
1:B:2691:TYR:N	1:B:2694:GLU:CB	2.73	0.51
1:C:341:TYR:C	1:C:343:GLU:H	2.14	0.51
1:B:77:ALA:N	1:C:3935:TRP:CD1	2.68	0.51
1:C:4150:LEU:HD12	1:C:4150:LEU:C	2.29	0.51
1:C:4930:ALA:HB1	1:D:4936:ILE:HD13	1.93	0.51
1:C:4975:PHE:C	1:C:4975:PHE:CD1	2.84	0.51
1:C:503:PHE:O	1:C:504:ALA:HB3	2.10	0.51
1:D:3103:ILE:O	1:D:3107:VAL:N	2.36	0.51
1:D:4638:TYR:C	1:D:4641:PRO:HD2	2.30	0.51
1:D:4849:TYR:CD1	1:D:4849:TYR:C	2.84	0.51
1:D:4889:VAL:CG2	1:D:4890:GLY:N	2.73	0.51
1:D:4957:LYS:C	1:D:4964:GLY:HA3	2.30	0.51
1:A:1276:THR:CB	1:A:1563:GLN:CA	2.87	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2529:ASP:O	1:A:2530:MET:C	2.47	0.51
1:A:4147:LEU:O	1:A:4147:LEU:HD13	2.11	0.51
1:A:4975:PHE:CD1	1:A:4975:PHE:C	2.84	0.51
1:B:2342:ASN:CB	1:B:2343:GLY:CA	2.88	0.51
1:B:2452:ARG:CA	1:B:2453:ILE:CB	2.88	0.51
1:B:4125:PHE:O	1:B:4126:GLU:C	2.46	0.51
1:B:4651:THR:HG1	1:B:4799:SER:CB	2.23	0.51
1:B:4861:LYS:O	1:B:4862:PHE:HD1	1.92	0.51
1:B:4918:ILE:HA	1:C:4891:VAL:HG11	0.67	0.51
1:B:74:SER:O	1:B:77:ALA:N	2.43	0.51
1:C:4173:TYR:HD2	1:C:4174:PHE:CE1	2.29	0.51
1:C:4183:ILE:HG22	1:C:4190:ILE:C	2.30	0.51
1:C:4926:VAL:CG1	1:C:4927:ILE:N	2.72	0.51
1:C:5021:PHE:CZ	1:C:5022:PHE:CD1	2.97	0.51
1:C:5031:GLN:NE2	1:C:5032:TYR:CD1	2.73	0.51
1:C:609:CYS:CB	1:C:610:ASN:HA	2.40	0.51
1:D:1563:GLN:C	1:D:1564:PHE:HD1	2.14	0.51
1:D:245:VAL:C	1:D:247:TYR:H	2.05	0.51
1:D:3792:ALA:O	1:D:3796:SER:N	2.41	0.51
1:D:4650:HIS:C	1:D:4650:HIS:CD2	2.84	0.51
1:D:4570:ALA:HB2	1:D:4650:HIS:HE1	1.74	0.51
1:D:4847:VAL:HG13	1:D:4848:VAL:N	2.26	0.51
1:D:4924:VAL:CG2	1:D:4925:ILE:N	2.73	0.51
1:A:1081:TYR:O	1:A:1082:THR:C	2.49	0.51
1:A:1287:LEU:CB	1:A:1553:PHE:CB	2.88	0.51
1:A:1829:PRO:CB	1:A:1832:GLY:HA2	2.41	0.51
1:A:2168:VAL:CB	1:A:2169:GLN:CA	2.89	0.51
1:A:243:ARG:CB	1:A:301:VAL:H	2.24	0.51
1:A:4650:HIS:CD2	1:A:4650:HIS:C	2.84	0.51
1:A:4768:LEU:CD1	1:A:4769:MET:N	2.73	0.51
1:B:3933:PHE:CD1	1:B:3933:PHE:C	2.84	0.51
1:B:4243:PHE:CD2	1:B:4671:PHE:CD1	2.84	0.51
1:C:2452:ARG:CA	1:C:2453:ILE:CB	2.88	0.51
1:C:4650:HIS:CD2	1:C:4650:HIS:C	2.84	0.51
1:C:4664:LEU:HD22	1:C:4664:LEU:C	2.30	0.51
1:C:4914:VAL:CG2	1:D:4888:TYR:CD2	2.65	0.51
1:C:4936:ILE:CG2	1:C:4937:ILE:N	2.73	0.51
1:C:5016:GLU:C	1:C:5017:ARG:O	2.42	0.51
1:C:509:GLU:C	1:C:511:ALA:H	2.13	0.51
1:D:1117:ALA:C	1:D:1134:LEU:CB	2.79	0.51
1:C:77:ALA:N	1:D:3935:TRP:CD1	2.68	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:609:CYS:N	1:D:610:ASN:CB	2.73	0.51
1:A:1126:GLY:O	1:A:1143:TRP:CB	2.58	0.51
1:A:1087:ARG:O	1:A:1223:PHE:HA	2.11	0.51
1:A:2459:SER:O	1:A:2461:VAL:O	2.29	0.51
1:A:4183:ILE:HG22	1:A:4190:ILE:C	2.30	0.51
1:A:4208:PRO:CG	1:A:4209:GLN:H	2.24	0.51
1:A:4773:VAL:HG12	1:A:4774:LYS:N	2.26	0.51
1:A:4651:THR:OG1	1:A:4799:SER:OG	2.28	0.51
1:B:2192:TYR:O	1:B:2193:GLN:CB	2.59	0.51
1:B:2459:SER:O	1:B:2461:VAL:O	2.29	0.51
1:B:609:CYS:CB	1:B:610:ASN:HA	2.40	0.51
1:C:4682:GLU:HA	1:C:4724:VAL:HG11	1.93	0.51
1:C:483:MET:C	1:C:485:SER:N	2.63	0.51
1:D:111:HIS:CB	1:D:114:SER:N	2.74	0.51
1:D:2518:LEU:O	1:D:2522:LEU:N	2.41	0.51
1:D:3104:GLU:O	1:D:3108:GLU:N	2.36	0.51
1:D:4653:VAL:C	1:D:4657:CYS:HG	2.01	0.51
1:D:485:SER:C	1:D:487:VAL:N	2.63	0.51
1:A:1117:ALA:C	1:A:1134:LEU:CB	2.79	0.51
1:A:3833:GLN:CA	1:A:3833:GLN:NE2	2.73	0.51
1:A:3880:PHE:C	1:A:3880:PHE:CD1	2.85	0.51
1:A:4141:PHE:HB2	1:A:4174:PHE:CE2	2.46	0.51
1:A:4638:TYR:C	1:A:4641:PRO:HD2	2.30	0.51
1:A:4711:PHE:CD1	1:A:4711:PHE:C	2.85	0.51
1:A:4916:PHE:CD1	1:A:4916:PHE:C	2.84	0.51
1:A:5008:SER:O	1:A:5011:TRP:HB3	2.10	0.51
1:B:1126:GLY:O	1:B:1143:TRP:CB	2.58	0.51
1:B:1276:THR:CB	1:B:1563:GLN:CA	2.87	0.51
1:B:1287:LEU:CB	1:B:1553:PHE:CB	2.88	0.51
1:B:3880:PHE:C	1:B:3880:PHE:CD1	2.84	0.51
1:B:3934:TYR:CD1	1:B:3935:TRP:HE3	2.28	0.51
1:B:4197:ILE:CD1	1:B:4990:PHE:CG	2.90	0.51
1:B:4664:LEU:C	1:B:4664:LEU:HD22	2.31	0.51
1:B:503:PHE:O	1:B:504:ALA:HB3	2.10	0.51
1:C:1087:ARG:O	1:C:1223:PHE:HA	2.11	0.51
1:C:1093:GLU:CA	1:C:1201:HIS:O	2.58	0.51
1:C:2691:TYR:N	1:C:2694:GLU:CB	2.73	0.51
1:C:3765:TYR:HE1	1:C:3769:ARG:NH1	2.08	0.51
1:C:4147:LEU:HD13	1:C:4147:LEU:O	2.11	0.51
1:C:4957:LYS:C	1:C:4964:GLY:HA3	2.30	0.51
1:D:1708:ARG:HG2	1:D:1712:TYR:CD2	2.46	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3106:MET:O	1:D:3110:LEU:N	2.36	0.51
1:D:3765:TYR:HE1	1:D:3769:ARG:HH12	1.59	0.51
1:D:3765:TYR:HE1	1:D:3769:ARG:NH1	2.08	0.51
1:D:4682:GLU:HA	1:D:4724:VAL:HG11	1.93	0.51
1:D:4768:LEU:CD1	1:D:4769:MET:N	2.73	0.51
1:D:4978:HIS:O	1:D:4982:GLU:N	2.44	0.51
1:A:1563:GLN:C	1:A:1564:PHE:HD1	2.14	0.50
1:A:27:THR:CB	1:A:32:GLN:CA	2.85	0.50
1:B:1081:TYR:O	1:B:1082:THR:C	2.49	0.50
1:B:1244:GLN:O	1:B:1604:SER:CA	2.57	0.50
1:B:243:ARG:CB	1:B:301:VAL:H	2.24	0.50
1:B:4183:ILE:HG22	1:B:4190:ILE:C	2.30	0.50
1:B:4863:TYR:CD1	1:B:4864:ASN:N	2.73	0.50
1:C:1829:PRO:CB	1:C:1832:GLY:HA2	2.41	0.50
1:C:4103:PHE:HB3	1:C:4108:ILE:HG22	1.92	0.50
1:C:4697:VAL:CG2	1:C:4698:LYS:CB	2.85	0.50
1:B:4942:GLU:CA	1:C:4944:ARG:NH2	2.74	0.50
1:C:4978:HIS:O	1:C:4982:GLU:N	2.44	0.50
1:C:593:HIS:HA	1:C:1597:VAL:CB	2.41	0.50
1:D:2168:VAL:CB	1:D:2169:GLN:CA	2.89	0.50
1:D:2463:LEU:N	1:D:2464:ASP:CA	2.74	0.50
1:D:3880:PHE:CD1	1:D:3880:PHE:C	2.85	0.50
1:D:3934:TYR:CE2	1:D:3998:HIS:HB3	2.46	0.50
1:D:4140:GLY:C	1:D:4174:PHE:CE2	2.84	0.50
1:D:4243:PHE:CD2	1:D:4671:PHE:CE1	2.89	0.50
1:D:4861:LYS:C	1:D:4862:PHE:CD1	2.84	0.50
1:D:989:ALA:O	1:D:993:HIS:N	2.40	0.50
1:A:113:HIS:N	1:A:114:SER:CA	2.72	0.50
1:A:2191:PHE:HD1	1:A:2192:TYR:HD1	1.50	0.50
1:A:245:VAL:C	1:A:247:TYR:H	2.05	0.50
1:A:4235:VAL:CB	1:A:5019:TRP:HZ3	2.04	0.50
1:B:151:HIS:O	1:B:152:PRO:C	2.46	0.50
1:B:1563:GLN:C	1:B:1564:PHE:HD1	2.14	0.50
1:B:73:LEU:O	1:B:105:HIS:C	2.46	0.50
1:C:2192:TYR:O	1:C:2193:GLN:CB	2.59	0.50
1:C:2200:ALA:O	1:C:2201:LEU:C	2.50	0.50
1:C:404:ILE:CB	1:C:478:PHE:CZ	2.94	0.50
1:D:1829:PRO:CB	1:D:1832:GLY:HA2	2.41	0.50
1:D:4773:VAL:O	1:D:4775:TYR:N	2.45	0.50
1:A:1708:ARG:HG2	1:A:1712:TYR:CD2	2.46	0.50
1:A:2463:LEU:N	1:A:2464:ASP:CA	2.74	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3765:TYR:HE1	1:A:3769:ARG:HH12	1.59	0.50
1:A:509:GLU:C	1:A:511:ALA:H	2.13	0.50
1:A:838:HIS:CA	1:A:1200:GLY:O	2.59	0.50
1:B:1093:GLU:CA	1:B:1201:HIS:O	2.58	0.50
1:B:1163:THR:CA	1:B:1168:VAL:HA	2.37	0.50
1:B:2509:VAL:C	1:B:2510:TYR:CG	2.85	0.50
1:B:3819:TYR:CD1	1:B:3819:TYR:C	2.85	0.50
1:B:4008:SER:N	1:B:4009:GLN:HA	2.24	0.50
1:B:4650:HIS:C	1:B:4650:HIS:CD2	2.84	0.50
1:B:4967:TYR:C	1:B:4967:TYR:CD1	2.85	0.50
1:C:1081:TYR:O	1:C:1082:THR:C	2.49	0.50
1:C:2125:HIS:CB	1:C:3725:TYR:OH	2.59	0.50
1:C:4141:PHE:HB2	1:C:4174:PHE:CE2	2.46	0.50
1:C:4861:LYS:C	1:C:4862:PHE:CD1	2.84	0.50
1:C:4916:PHE:C	1:C:4916:PHE:CD1	2.84	0.50
1:C:4184:MET:CA	1:C:5021:PHE:O	2.46	0.50
1:C:721:LEU:N	1:C:728:ARG:O	2.45	0.50
1:D:1081:TYR:O	1:D:1082:THR:C	2.49	0.50
1:D:1093:GLU:CA	1:D:1201:HIS:O	2.58	0.50
1:D:4115:SER:CA	1:D:4128:PHE:CE2	2.76	0.50
1:D:4851:TYR:O	1:D:4854:VAL:CG2	2.56	0.50
1:D:4975:PHE:C	1:D:4975:PHE:CD1	2.84	0.50
1:A:3103:ILE:O	1:A:3107:VAL:N	2.36	0.50
1:A:4644:TRP:C	1:A:4644:TRP:CE3	2.85	0.50
1:B:1087:ARG:O	1:B:1223:PHE:HA	2.11	0.50
1:B:113:HIS:N	1:B:114:SER:CA	2.72	0.50
1:B:2168:VAL:CB	1:B:2169:GLN:CA	2.89	0.50
1:B:4644:TRP:CE3	1:B:4644:TRP:C	2.85	0.50
1:B:4690:GLU:O	1:B:4691:GLN:O	2.30	0.50
1:B:4711:PHE:CD1	1:B:4711:PHE:C	2.85	0.50
1:C:1126:GLY:O	1:C:1143:TRP:CB	2.58	0.50
1:C:1708:ARG:HG2	1:C:1712:TYR:CD2	2.46	0.50
1:C:25:SER:O	1:C:26:ALA:C	2.47	0.50
1:C:3880:PHE:CD1	1:C:3880:PHE:C	2.85	0.50
1:C:3887:PHE:C	1:C:3887:PHE:CD1	2.85	0.50
1:C:4644:TRP:C	1:C:4644:TRP:CE3	2.85	0.50
1:C:4715:TYR:CE1	1:C:4717:ASP:CB	2.93	0.50
1:C:4968:PHE:CB	1:C:4975:PHE:HA	2.25	0.50
1:D:1126:GLY:O	1:D:1143:TRP:CB	2.58	0.50
1:D:3936:TYR:CD1	1:D:3936:TYR:C	2.85	0.50
1:D:404:ILE:CB	1:D:478:PHE:CZ	2.94	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:4061:PHE:C	1:D:4061:PHE:CD1	2.85	0.50
1:D:4141:PHE:HB2	1:D:4174:PHE:CE2	2.46	0.50
1:D:4147:LEU:O	1:D:4147:LEU:HD13	2.11	0.50
1:D:721:LEU:N	1:D:728:ARG:O	2.45	0.50
1:A:1087:ARG:C	1:A:1088:TRP:CD1	2.85	0.50
1:A:2125:HIS:CB	1:A:3725:TYR:OH	2.59	0.50
1:A:38:ALA:HB1	1:A:64:ILE:C	2.18	0.50
1:A:3936:TYR:C	1:A:3936:TYR:CD1	2.85	0.50
1:A:4861:LYS:C	1:A:4862:PHE:CD1	2.84	0.50
1:A:4994:TYR:CD1	1:A:4994:TYR:C	2.85	0.50
1:A:593:HIS:HA	1:A:1597:VAL:CB	2.41	0.50
1:B:2340:PHE:O	1:B:2341:VAL:CB	2.58	0.50
1:B:2518:LEU:O	1:B:2522:LEU:N	2.41	0.50
1:B:3936:TYR:CD1	1:B:3936:TYR:C	2.85	0.50
1:B:4651:THR:OG1	1:B:4799:SER:OG	2.28	0.50
1:B:4685:GLY:N	1:B:4689:THR:CB	2.72	0.50
1:B:509:GLU:C	1:B:511:ALA:H	2.13	0.50
1:C:111:HIS:CB	1:C:114:SER:N	2.74	0.50
1:C:2168:VAL:CB	1:C:2169:GLN:CA	2.89	0.50
1:C:219:VAL:CB	1:C:261:ARG:CA	2.89	0.50
1:C:3106:MET:O	1:C:3110:LEU:N	2.36	0.50
1:C:3765:TYR:HE1	1:C:3769:ARG:HH12	1.59	0.50
1:C:3795:SER:CB	1:C:3880:PHE:CD2	2.95	0.50
1:C:3894:GLY:C	1:C:3895:HIS:CD2	2.85	0.50
1:C:3951:PHE:CD1	1:C:3951:PHE:C	2.85	0.50
1:C:4690:GLU:O	1:C:4691:GLN:O	2.30	0.50
1:C:4967:TYR:C	1:C:4967:TYR:CD1	2.85	0.50
1:D:1087:ARG:C	1:D:1088:TRP:CD1	2.85	0.50
1:D:788:LYS:CB	1:D:1629:GLN:HA	2.39	0.50
1:D:4173:TYR:HD2	1:D:4174:PHE:CE1	2.29	0.50
1:D:4559:PHE:CD1	1:D:4559:PHE:C	2.85	0.50
1:D:4888:TYR:CD1	1:D:4888:TYR:C	2.85	0.50
1:D:565:TYR:C	1:D:565:TYR:CD1	2.85	0.50
1:A:1701:ALA:C	1:A:1702:HIS:CD2	2.85	0.50
1:A:4103:PHE:HB3	1:A:4108:ILE:HG22	1.92	0.50
1:A:4234:PHE:CD1	1:A:4234:PHE:C	2.85	0.50
1:A:4671:PHE:CD1	1:A:4671:PHE:C	2.85	0.50
1:B:2239:PHE:CD1	1:B:2239:PHE:C	2.85	0.50
1:B:3103:ILE:O	1:B:3107:VAL:N	2.36	0.50
1:B:3104:GLU:O	1:B:3108:GLU:N	2.36	0.50
1:B:4141:PHE:HB2	1:B:4174:PHE:CE2	2.46	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:4140:GLY:C	1:B:4174:PHE:CE2	2.84	0.50
1:B:4237:PHE:C	1:B:4237:PHE:CD1	2.85	0.50
1:B:4773:VAL:HG12	1:B:4774:LYS:N	2.26	0.50
1:B:4773:VAL:O	1:B:4775:TYR:N	2.45	0.50
1:B:404:ILE:CB	1:B:478:PHE:CZ	2.94	0.50
1:B:4861:LYS:C	1:B:4862:PHE:CD1	2.84	0.50
1:C:1563:GLN:C	1:C:1564:PHE:HD1	2.14	0.50
1:C:1679:ASN:O	1:C:1681:VAL:N	2.45	0.50
1:C:3934:TYR:CE2	1:C:3998:HIS:HB3	2.46	0.50
1:C:4141:PHE:CD1	1:C:4141:PHE:C	2.85	0.50
1:C:4237:PHE:CD1	1:C:4237:PHE:C	2.85	0.50
1:C:4559:PHE:C	1:C:4559:PHE:CD1	2.85	0.50
1:C:5009:TYR:CD1	1:C:5009:TYR:C	2.85	0.50
1:C:5023:PRO:O	1:C:5024:ALA:HB2	2.11	0.50
1:D:1701:ALA:C	1:D:1702:HIS:CD2	2.85	0.50
1:D:227:MET:O	1:D:229:GLU:N	2.39	0.50
1:D:3833:GLN:CA	1:D:3833:GLN:NE2	2.73	0.50
1:D:3894:GLY:C	1:D:3895:HIS:CD2	2.85	0.50
1:D:4208:PRO:CG	1:D:4209:GLN:H	2.24	0.50
1:D:4234:PHE:C	1:D:4234:PHE:CD1	2.85	0.50
1:D:4575:PHE:CD1	1:D:4575:PHE:C	2.85	0.50
1:D:4995:LEU:HD11	1:D:5011:TRP:HE3	0.63	0.50
1:A:111:HIS:CB	1:A:114:SER:N	2.74	0.50
1:A:3810:ALA:O	1:A:3811:GLU:C	2.47	0.50
1:A:3887:PHE:CD1	1:A:3887:PHE:C	2.85	0.50
1:A:3933:PHE:C	1:A:3933:PHE:CD1	2.84	0.50
1:A:4794:TRP:CE3	1:A:4795:TYR:CA	2.95	0.50
1:A:4991:PHE:CD1	1:A:4991:PHE:C	2.85	0.50
1:A:503:PHE:O	1:A:504:ALA:HB3	2.10	0.50
1:A:534:ARG:O	1:A:537:CYS:CB	2.60	0.50
1:B:1117:ALA:C	1:B:1134:LEU:CB	2.79	0.50
1:B:111:HIS:CB	1:B:114:SER:N	2.74	0.50
1:B:2200:ALA:O	1:B:2201:LEU:C	2.50	0.50
1:B:341:TYR:C	1:B:343:GLU:H	2.14	0.50
1:B:3887:PHE:CD1	1:B:3887:PHE:C	2.85	0.50
1:B:4125:PHE:HA	1:B:4128:PHE:HB2	1.93	0.50
1:B:4665:LYS:O	1:B:4669:VAL:HG23	2.12	0.50
1:B:4794:TRP:CE3	1:B:4795:TYR:CA	2.95	0.50
1:B:4803:HIS:HD2	1:B:4804:TYR:N	2.09	0.50
1:B:4847:VAL:HG13	1:B:4848:VAL:N	2.26	0.50
1:C:2110:TYR:CD1	1:C:2110:TYR:C	2.85	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2509:VAL:C	1:C:2510:TYR:CG	2.85	0.50
1:C:3934:TYR:CD1	1:C:3935:TRP:HE3	2.28	0.50
1:C:4183:ILE:N	1:C:4183:ILE:CD1	2.72	0.50
1:C:4243:PHE:C	1:C:4243:PHE:CD1	2.85	0.50
1:C:4711:PHE:C	1:C:4711:PHE:CD1	2.85	0.50
1:D:1087:ARG:O	1:D:1223:PHE:HA	2.11	0.50
1:D:151:HIS:O	1:D:152:PRO:C	2.46	0.50
1:D:1563:GLN:C	1:D:1564:PHE:CD1	2.85	0.50
1:D:1679:ASN:O	1:D:1681:VAL:N	2.45	0.50
1:D:2459:SER:O	1:D:2461:VAL:O	2.29	0.50
1:D:3765:TYR:CD1	1:D:3765:TYR:C	2.85	0.50
1:D:4671:PHE:C	1:D:4671:PHE:CD1	2.85	0.50
1:D:4916:PHE:C	1:D:4916:PHE:CD1	2.84	0.50
1:D:5023:PRO:O	1:D:5024:ALA:HB2	2.11	0.50
1:D:593:HIS:HA	1:D:1597:VAL:CB	2.41	0.50
1:A:1125:ASN:N	1:A:1130:GLN:O	2.43	0.50
1:A:132:ALA:C	1:A:133:PHE:CD1	2.85	0.50
1:A:4141:PHE:C	1:A:4141:PHE:CD1	2.85	0.50
1:A:4243:PHE:CD1	1:A:4243:PHE:C	2.85	0.50
1:A:4665:LYS:O	1:A:4669:VAL:HG23	2.12	0.50
1:A:4690:GLU:O	1:A:4691:GLN:O	2.30	0.50
1:A:4791:TYR:CD1	1:A:4791:TYR:C	2.85	0.50
1:A:4832:HIS:ND1	1:A:4833:ASN:N	2.60	0.50
1:A:4863:TYR:CD1	1:A:4864:ASN:N	2.73	0.50
1:A:4932:ILE:CG2	1:A:4933:GLN:N	2.75	0.50
1:A:546:TRP:C	1:A:546:TRP:CE3	2.85	0.50
1:A:565:TYR:C	1:A:565:TYR:CD1	2.85	0.50
1:B:3765:TYR:C	1:B:3765:TYR:CD1	2.85	0.50
1:B:3894:GLY:C	1:B:3895:HIS:CD2	2.85	0.50
1:B:4725:LEU:O	1:B:4728:HIS:O	2.30	0.50
1:B:4916:PHE:C	1:B:4916:PHE:CD1	2.84	0.50
1:B:4975:PHE:C	1:B:4975:PHE:CD1	2.84	0.50
1:B:5014:TYR:CD1	1:B:5014:TYR:C	2.85	0.50
1:C:1087:ARG:C	1:C:1088:TRP:CD1	2.85	0.50
1:C:1117:ALA:C	1:C:1134:LEU:CB	2.79	0.50
1:C:1716:ILE:O	1:C:1721:GLU:N	2.35	0.50
1:C:4061:PHE:CD1	1:C:4061:PHE:C	2.85	0.50
1:C:4110:PHE:C	1:C:4110:PHE:CD1	2.85	0.50
1:C:4575:PHE:C	1:C:4575:PHE:CD1	2.85	0.50
1:C:4773:VAL:O	1:C:4775:TYR:N	2.45	0.50
1:C:4888:TYR:CD1	1:C:4888:TYR:C	2.85	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4991:PHE:C	1:C:4991:PHE:CD1	2.85	0.50
1:D:3933:PHE:C	1:D:3933:PHE:CD1	2.84	0.50
1:D:4141:PHE:C	1:D:4141:PHE:CD1	2.85	0.50
1:D:4181:ILE:CG2	1:D:4193:ILE:N	2.72	0.50
1:D:4237:PHE:C	1:D:4237:PHE:CD1	2.85	0.50
1:A:1287:LEU:CB	1:A:1288:PHE:HA	2.42	0.50
1:A:1679:ASN:O	1:A:1681:VAL:N	2.45	0.50
1:A:2770:LYS:O	1:A:2775:TRP:CB	2.60	0.50
1:A:3934:TYR:CE2	1:A:3998:HIS:HB3	2.46	0.50
1:A:4125:PHE:HA	1:A:4128:PHE:HB2	1.93	0.50
1:A:4146:LEU:HD23	1:A:4147:LEU:N	2.27	0.50
1:A:4682:GLU:HA	1:A:4724:VAL:HG11	1.93	0.50
1:A:4908:GLU:CB	1:A:4909:TYR:HB2	2.42	0.50
1:B:3951:PHE:CD1	1:B:3951:PHE:C	2.85	0.50
1:B:4061:PHE:C	1:B:4061:PHE:CD1	2.85	0.50
1:B:4131:ARG:C	1:B:4132:PHE:CD1	2.86	0.50
1:B:4851:TYR:O	1:B:4854:VAL:CG2	2.56	0.50
1:B:4948:GLU:OE1	1:B:4949:GLN:HA	2.12	0.50
1:B:4978:HIS:O	1:B:4982:GLU:N	2.44	0.50
1:B:4994:TYR:C	1:B:4994:TYR:CD1	2.86	0.50
1:B:546:TRP:CE3	1:B:546:TRP:C	2.85	0.50
1:C:113:HIS:N	1:C:114:SER:CA	2.72	0.50
1:C:2459:SER:O	1:C:2461:VAL:O	2.29	0.50
1:C:243:ARG:CB	1:C:301:VAL:H	2.24	0.50
1:C:3819:TYR:CD1	1:C:3819:TYR:C	2.85	0.50
1:C:3936:TYR:CD1	1:C:3936:TYR:C	2.85	0.50
1:C:451:TYR:CD1	1:C:451:TYR:C	2.85	0.50
1:C:4773:VAL:HG12	1:C:4774:LYS:N	2.26	0.50
1:C:565:TYR:C	1:C:565:TYR:CD1	2.85	0.50
1:D:113:HIS:N	1:D:114:SER:CA	2.72	0.50
1:D:1515:VAL:CB	1:D:1529:PHE:CA	2.89	0.50
1:D:2192:TYR:O	1:D:2193:GLN:CB	2.59	0.50
1:D:243:ARG:CB	1:D:301:VAL:H	2.24	0.50
1:D:25:SER:O	1:D:26:ALA:C	2.47	0.50
1:D:4644:TRP:CE3	1:D:4644:TRP:C	2.85	0.50
1:D:4923:PHE:CD1	1:D:4923:PHE:C	2.86	0.50
1:D:4967:TYR:C	1:D:4967:TYR:CD1	2.85	0.50
1:D:534:ARG:O	1:D:537:CYS:CB	2.60	0.50
1:D:838:HIS:CA	1:D:1200:GLY:O	2.59	0.50
1:A:1124:PHE:C	1:A:1124:PHE:CD1	2.86	0.49
1:A:1564:PHE:N	1:A:1564:PHE:HD1	2.10	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2105:TRP:CE3	1:A:2105:TRP:C	2.85	0.49
1:A:4803:HIS:HD2	1:A:4804:TYR:N	2.09	0.49
1:A:4851:TYR:O	1:A:4854:VAL:CG2	2.56	0.49
1:A:4978:HIS:O	1:A:4982:GLU:N	2.44	0.49
1:B:4132:PHE:N	1:B:4132:PHE:CD1	2.73	0.49
1:B:4682:GLU:HA	1:B:4724:VAL:HG11	1.93	0.49
1:B:4928:LEU:CA	1:B:4931:ILE:HD13	2.42	0.49
1:B:4932:ILE:CG2	1:B:4933:GLN:N	2.75	0.49
1:B:4991:PHE:CD1	1:B:4991:PHE:C	2.85	0.49
1:B:534:ARG:O	1:B:537:CYS:CB	2.60	0.49
1:C:1563:GLN:C	1:C:1564:PHE:CD1	2.85	0.49
1:C:2274:ASP:C	1:C:2277:ALA:HB3	2.32	0.49
1:C:3833:GLN:CA	1:C:3833:GLN:NE2	2.73	0.49
1:C:4131:ARG:C	1:C:4132:PHE:CD1	2.86	0.49
1:C:4832:HIS:ND1	1:C:4833:ASN:N	2.60	0.49
1:C:546:TRP:CE3	1:C:546:TRP:C	2.85	0.49
1:C:17:ASP:CA	1:C:69:LEU:O	2.60	0.49
1:C:838:HIS:CA	1:C:1200:GLY:O	2.59	0.49
1:D:1124:PHE:C	1:D:1124:PHE:CD1	2.86	0.49
1:D:1161:ILE:HA	1:D:1178:ALA:HB3	1.83	0.49
1:D:3819:TYR:C	1:D:3819:TYR:CD1	2.85	0.49
1:D:4768:LEU:CD1	1:D:4770:SER:N	2.73	0.49
1:D:4803:HIS:HD2	1:D:4804:TYR:N	2.09	0.49
1:D:4908:GLU:CB	1:D:4909:TYR:HB2	2.42	0.49
1:A:1287:LEU:CB	1:A:1288:PHE:CA	2.90	0.49
1:A:3828:PHE:CD1	1:A:3828:PHE:C	2.86	0.49
1:A:4181:ILE:HG13	1:A:4194:TYR:HA	1.89	0.49
1:A:4559:PHE:CD1	1:A:4559:PHE:C	2.85	0.49
1:A:4575:PHE:C	1:A:4575:PHE:CD1	2.85	0.49
1:A:4967:TYR:C	1:A:4967:TYR:CD1	2.85	0.49
1:A:721:LEU:N	1:A:728:ARG:O	2.45	0.49
1:A:73:LEU:O	1:A:105:HIS:C	2.46	0.49
1:B:3765:TYR:HE1	1:B:3769:ARG:HH12	1.59	0.49
1:B:3934:TYR:CE2	1:B:3998:HIS:HB3	2.46	0.49
1:B:4832:HIS:ND1	1:B:4833:ASN:N	2.60	0.49
1:B:4918:ILE:CG2	1:B:4919:THR:N	2.76	0.49
1:B:721:LEU:N	1:B:728:ARG:O	2.45	0.49
1:C:132:ALA:C	1:C:133:PHE:CD1	2.85	0.49
1:C:1564:PHE:HD1	1:C:1564:PHE:N	2.10	0.49
1:C:1701:ALA:C	1:C:1702:HIS:CD2	2.85	0.49
1:C:2102:VAL:CA	1:C:2105:TRP:CD1	2.84	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2770:LYS:O	1:C:2775:TRP:CB	2.60	0.49
1:C:24:CYS:N	1:C:35:LEU:O	2.32	0.49
1:C:3893:GLU:O	1:C:3895:HIS:N	2.40	0.49
1:C:3934:TYR:C	1:C:3934:TYR:CD1	2.85	0.49
1:C:4856:PHE:C	1:C:4856:PHE:CD1	2.86	0.49
1:C:488:LEU:O	1:C:491:ILE:CB	2.60	0.49
1:C:4932:ILE:CG2	1:C:4933:GLN:N	2.75	0.49
1:C:4934:GLY:HA3	1:D:4937:ILE:HD13	1.91	0.49
1:B:4942:GLU:HA	1:C:4944:ARG:NH2	2.27	0.49
1:D:2770:LYS:O	1:D:2775:TRP:CB	2.60	0.49
1:D:38:ALA:HB1	1:D:64:ILE:C	2.18	0.49
1:D:4665:LYS:O	1:D:4669:VAL:HG23	2.12	0.49
1:D:4690:GLU:O	1:D:4691:GLN:O	2.30	0.49
1:D:4711:PHE:CD1	1:D:4711:PHE:C	2.85	0.49
1:A:4888:TYR:CD2	1:D:4914:VAL:CG2	2.66	0.49
1:D:4968:PHE:CB	1:D:4975:PHE:HA	2.25	0.49
1:A:3765:TYR:C	1:A:3765:TYR:CD1	2.85	0.49
1:A:3795:SER:CB	1:A:3880:PHE:CD2	2.95	0.49
1:A:4173:TYR:HD2	1:A:4174:PHE:CE1	2.29	0.49
1:B:838:HIS:CA	1:B:1200:GLY:O	2.59	0.49
1:B:1638:ALA:CB	1:B:1649:ASP:N	2.73	0.49
1:B:1679:ASN:C	1:B:1681:VAL:N	2.66	0.49
1:B:4908:GLU:CB	1:B:4909:TYR:HB2	2.42	0.49
1:B:565:TYR:CD1	1:B:565:TYR:C	2.85	0.49
1:C:2105:TRP:C	1:C:2105:TRP:CE3	2.85	0.49
1:D:2920:ARG:HA	1:D:2923:ALA:HB3	1.92	0.49
1:D:4243:PHE:C	1:D:4243:PHE:HD1	2.15	0.49
1:D:4668:LEU:C	1:D:4668:LEU:HD12	2.30	0.49
1:D:5021:PHE:CE1	1:D:5022:PHE:CE1	3.01	0.49
1:A:1621:GLY:HA2	1:A:1628:VAL:CB	2.43	0.49
1:A:4685:GLY:N	1:A:4689:THR:CB	2.72	0.49
1:A:4725:LEU:O	1:A:4728:HIS:O	2.30	0.49
1:A:4773:VAL:O	1:A:4775:TYR:N	2.45	0.49
1:A:4856:PHE:CD1	1:A:4856:PHE:C	2.86	0.49
1:A:4928:LEU:CA	1:A:4931:ILE:CD1	2.84	0.49
1:A:5031:GLN:NE2	1:A:5032:TYR:CE1	2.81	0.49
1:B:1087:ARG:C	1:B:1088:TRP:CD1	2.85	0.49
1:B:1564:PHE:N	1:B:1564:PHE:HD1	2.10	0.49
1:B:1588:ALA:CB	1:B:1589:PRO:CA	2.84	0.49
1:B:1701:ALA:C	1:B:1702:HIS:CD2	2.85	0.49
1:B:4234:PHE:C	1:B:4234:PHE:CD1	2.85	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:17:ASP:CA	1:B:69:LEU:O	2.60	0.49
1:C:1287:LEU:CB	1:C:1288:PHE:HA	2.42	0.49
1:C:1515:VAL:CB	1:C:1529:PHE:CA	2.89	0.49
1:C:2557:ALA:O	1:C:2561:LEU:N	2.45	0.49
1:C:3792:ALA:O	1:C:3796:SER:N	2.41	0.49
1:C:4140:GLY:C	1:C:4174:PHE:CE2	2.84	0.49
1:C:4208:PRO:CG	1:C:4209:GLN:H	2.24	0.49
1:C:4725:LEU:O	1:C:4728:HIS:O	2.30	0.49
1:C:5031:GLN:NE2	1:C:5032:TYR:CE1	2.81	0.49
1:C:534:ARG:O	1:C:537:CYS:CB	2.60	0.49
1:D:2274:ASP:C	1:D:2277:ALA:HB3	2.32	0.49
1:D:3795:SER:CB	1:D:3880:PHE:CD2	2.95	0.49
1:D:3893:GLU:O	1:D:3895:HIS:N	2.40	0.49
1:D:451:TYR:C	1:D:451:TYR:CD1	2.85	0.49
1:D:500:ALA:CB	1:D:515:TRP:HH2	2.21	0.49
1:D:5021:PHE:C	1:D:5022:PHE:O	2.28	0.49
1:D:5031:GLN:NE2	1:D:5032:TYR:CE1	2.81	0.49
1:D:546:TRP:C	1:D:546:TRP:CE3	2.85	0.49
1:A:341:TYR:C	1:A:343:GLU:H	2.14	0.49
1:A:3819:TYR:C	1:A:3819:TYR:CD1	2.85	0.49
1:A:3951:PHE:CD1	1:A:3951:PHE:C	2.85	0.49
1:A:4773:VAL:O	1:A:4774:LYS:C	2.47	0.49
1:B:1563:GLN:C	1:B:1564:PHE:CD1	2.85	0.49
1:B:229:GLU:HA	1:B:248:GLU:O	2.13	0.49
1:B:4243:PHE:C	1:B:4243:PHE:CD1	2.85	0.49
1:B:4856:PHE:CD1	1:B:4856:PHE:C	2.86	0.49
1:B:488:LEU:O	1:B:491:ILE:CB	2.61	0.49
1:C:1621:GLY:HA2	1:C:1628:VAL:CB	2.43	0.49
1:C:2592:GLY:N	1:C:2595:LEU:H	1.96	0.49
1:C:2920:ARG:HA	1:C:2923:ALA:HB3	1.92	0.49
1:C:4125:PHE:HA	1:C:4128:PHE:HB2	1.92	0.49
1:C:4768:LEU:CD1	1:C:4769:MET:N	2.73	0.49
1:D:1133:HIS:N	1:D:1135:GLY:N	2.60	0.49
1:D:2110:TYR:CD1	1:D:2110:TYR:C	2.85	0.49
1:D:2239:PHE:C	1:D:2239:PHE:CD1	2.85	0.49
1:D:3887:PHE:C	1:D:3887:PHE:CD1	2.85	0.49
1:D:4110:PHE:C	1:D:4110:PHE:CD1	2.85	0.49
1:D:4991:PHE:CD1	1:D:4991:PHE:C	2.85	0.49
1:A:2509:VAL:C	1:A:2510:TYR:CG	2.85	0.49
1:A:3894:GLY:C	1:A:3895:HIS:CD2	2.85	0.49
1:A:3934:TYR:C	1:A:3934:TYR:CD1	2.85	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4243:PHE:C	1:A:4243:PHE:HD1	2.15	0.49
1:A:4918:ILE:CG2	1:A:4919:THR:N	2.75	0.49
1:B:1287:LEU:CB	1:B:1288:PHE:CA	2.90	0.49
1:B:1287:LEU:CB	1:B:1288:PHE:HA	2.42	0.49
1:B:1679:ASN:O	1:B:1681:VAL:N	2.45	0.49
1:B:4141:PHE:C	1:B:4141:PHE:CD1	2.85	0.49
1:B:4141:PHE:CA	1:B:4174:PHE:CD2	2.68	0.49
1:B:593:HIS:HA	1:B:1597:VAL:CB	2.41	0.49
1:C:2765:LYS:O	1:C:2769:ASP:N	2.41	0.49
1:C:4671:PHE:C	1:C:4671:PHE:CD1	2.85	0.49
1:C:4803:HIS:HD2	1:C:4804:TYR:N	2.09	0.49
1:C:5014:TYR:C	1:C:5014:TYR:CD1	2.85	0.49
1:D:1287:LEU:CB	1:D:1288:PHE:HA	2.42	0.49
1:D:132:ALA:C	1:D:133:PHE:CD1	2.85	0.49
1:D:17:ASP:CA	1:D:69:LEU:O	2.60	0.49
1:A:4093:PHE:CD1	1:A:4093:PHE:C	2.86	0.49
1:A:4110:PHE:C	1:A:4110:PHE:CD1	2.85	0.49
1:A:488:LEU:O	1:A:491:ILE:CB	2.61	0.49
1:A:5009:TYR:CD1	1:A:5009:TYR:C	2.85	0.49
1:B:1226:PHE:CD1	1:B:1226:PHE:N	2.81	0.49
1:B:1708:ARG:HG2	1:B:1712:TYR:CD2	2.46	0.49
1:B:4110:PHE:C	1:B:4110:PHE:CD1	2.85	0.49
1:B:4208:PRO:CG	1:B:4209:GLN:H	2.24	0.49
1:B:4791:TYR:CD1	1:B:4791:TYR:C	2.85	0.49
1:B:4888:TYR:C	1:B:4888:TYR:CD1	2.85	0.49
1:B:4930:ALA:HB3	1:C:4936:ILE:CD1	2.39	0.49
1:B:4184:MET:CA	1:B:5021:PHE:O	2.46	0.49
1:C:1276:THR:CB	1:C:1563:GLN:CA	2.87	0.49
1:C:229:GLU:HA	1:C:248:GLU:O	2.13	0.49
1:C:3828:PHE:C	1:C:3828:PHE:CD1	2.86	0.49
1:C:4847:VAL:HG13	1:C:4848:VAL:N	2.26	0.49
1:C:4930:ALA:CB	1:D:4936:ILE:HD13	2.42	0.49
1:C:4982:GLU:CB	1:C:4983:HIS:C	2.81	0.49
1:C:5021:PHE:CG	1:C:5022:PHE:N	2.81	0.49
1:D:2105:TRP:C	1:D:2105:TRP:CE3	2.85	0.49
1:D:2509:VAL:C	1:D:2510:TYR:CG	2.85	0.49
1:D:3062:PRO:HA	1:D:3063:ALA:C	2.33	0.49
1:D:4644:TRP:HE3	1:D:4645:CYS:CA	2.26	0.49
1:D:4791:TYR:C	1:D:4791:TYR:CD1	2.85	0.49
1:D:4794:TRP:CE3	1:D:4795:TYR:CA	2.95	0.49
1:D:4856:PHE:C	1:D:4856:PHE:CD1	2.86	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:4982:GLU:CB	1:D:4983:HIS:C	2.81	0.49
1:A:639:ASN:CA	1:A:1634:LEU:O	2.42	0.49
1:A:2192:TYR:O	1:A:2193:GLN:CB	2.59	0.49
1:A:4061:PHE:C	1:A:4061:PHE:CD1	2.85	0.49
1:A:4180:ARG:CA	1:A:4181:ILE:HB	2.43	0.49
1:A:4968:PHE:HD2	1:A:4978:HIS:HB2	1.71	0.49
1:A:5014:TYR:CD1	1:A:5014:TYR:C	2.85	0.49
1:B:1124:PHE:C	1:B:1124:PHE:CD1	2.86	0.49
1:B:132:ALA:C	1:B:133:PHE:CD1	2.85	0.49
1:B:2105:TRP:CE3	1:B:2105:TRP:C	2.85	0.49
1:B:3795:SER:CB	1:B:3880:PHE:CD2	2.95	0.49
1:B:4671:PHE:C	1:B:4671:PHE:CD1	2.85	0.49
1:B:4851:TYR:HA	1:B:4854:VAL:CG2	2.43	0.49
1:B:4982:GLU:CB	1:B:4983:HIS:C	2.81	0.49
1:C:2239:PHE:CD1	1:C:2239:PHE:C	2.85	0.49
1:C:2463:LEU:N	1:C:2464:ASP:CA	2.74	0.49
1:C:3062:PRO:HA	1:C:3063:ALA:C	2.33	0.49
1:C:404:ILE:CB	1:C:478:PHE:HE1	2.22	0.49
1:C:4908:GLU:CB	1:C:4909:TYR:HB2	2.42	0.49
1:C:4923:PHE:C	1:C:4923:PHE:CD1	2.86	0.49
1:C:4994:TYR:C	1:C:4994:TYR:CD1	2.86	0.49
1:D:173:SER:HA	1:D:174:VAL:CB	2.43	0.49
1:D:3951:PHE:C	1:D:3951:PHE:CD1	2.85	0.49
1:D:4146:LEU:HD23	1:D:4147:LEU:N	2.27	0.49
1:D:5009:TYR:C	1:D:5009:TYR:CD1	2.85	0.49
1:D:5021:PHE:CG	1:D:5022:PHE:N	2.81	0.49
1:A:4193:ILE:CG2	1:A:4194:TYR:N	2.76	0.49
1:A:4237:PHE:C	1:A:4237:PHE:CD1	2.85	0.49
1:A:451:TYR:C	1:A:451:TYR:CD1	2.85	0.49
1:A:4768:LEU:CD1	1:A:4770:SER:N	2.73	0.49
1:A:4928:LEU:CA	1:A:4931:ILE:HD13	2.42	0.49
1:A:4197:ILE:CD1	1:A:4990:PHE:CG	2.95	0.49
1:B:173:SER:HA	1:B:174:VAL:CB	2.43	0.49
1:B:2110:TYR:C	1:B:2110:TYR:CD1	2.85	0.49
1:B:2505:PHE:CD1	1:B:2505:PHE:C	2.86	0.49
1:B:3828:PHE:C	1:B:3828:PHE:CD1	2.86	0.49
1:B:3934:TYR:CD1	1:B:3934:TYR:C	2.85	0.49
1:B:501:ALA:HB1	1:B:505:GLU:CA	2.43	0.49
1:C:1124:PHE:C	1:C:1124:PHE:CD1	2.86	0.49
1:C:1163:THR:CA	1:C:1168:VAL:HA	2.37	0.49
1:C:3765:TYR:C	1:C:3765:TYR:CD1	2.85	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4851:TYR:O	1:C:4854:VAL:CG2	2.56	0.49
1:D:3904:ARG:O	1:D:3905:THR:CB	2.60	0.49
1:D:3934:TYR:C	1:D:3934:TYR:CD1	2.85	0.49
1:D:488:LEU:O	1:D:491:ILE:CB	2.61	0.49
1:D:4918:ILE:CG2	1:D:4919:THR:N	2.75	0.49
1:D:4932:ILE:CG2	1:D:4933:GLN:N	2.75	0.49
1:D:5014:TYR:CD1	1:D:5014:TYR:C	2.85	0.49
1:A:1563:GLN:C	1:A:1564:PHE:CD1	2.85	0.49
1:A:2110:TYR:CD1	1:A:2110:TYR:C	2.85	0.49
1:A:4131:ARG:C	1:A:4132:PHE:CD1	2.86	0.49
1:A:4715:TYR:CE1	1:A:4717:ASP:CB	2.93	0.49
1:A:4851:TYR:HA	1:A:4854:VAL:CG2	2.43	0.49
1:A:4923:PHE:CD1	1:A:4923:PHE:C	2.86	0.49
1:A:4954:MET:HE3	1:A:4954:MET:C	2.32	0.49
1:A:989:ALA:O	1:A:993:HIS:N	2.40	0.49
1:B:3699:HIS:O	1:B:3700:GLN:C	2.51	0.49
1:B:4243:PHE:HD1	1:B:4243:PHE:C	2.15	0.49
1:B:4923:PHE:CD1	1:B:4923:PHE:C	2.86	0.49
1:B:5021:PHE:CE1	1:B:5022:PHE:CE1	3.01	0.49
1:B:538:ALA:O	1:B:539:LEU:C	2.51	0.49
1:C:4243:PHE:C	1:C:4243:PHE:HD1	2.15	0.49
1:C:4665:LYS:O	1:C:4669:VAL:HG23	2.12	0.49
1:C:4794:TRP:CE3	1:C:4795:TYR:CA	2.95	0.49
1:C:608:VAL:CA	1:C:613:ALA:CB	2.85	0.49
1:D:1564:PHE:N	1:D:1564:PHE:HD1	2.10	0.49
1:D:1638:ALA:CB	1:D:1649:ASP:N	2.73	0.49
1:D:2505:PHE:CD1	1:D:2505:PHE:C	2.86	0.49
1:D:4131:ARG:C	1:D:4132:PHE:CD1	2.86	0.49
1:D:4193:ILE:CG2	1:D:4194:TYR:N	2.76	0.49
1:D:4243:PHE:C	1:D:4243:PHE:CD1	2.85	0.49
1:D:4832:HIS:ND1	1:D:4833:ASN:N	2.60	0.49
1:D:4848:VAL:HG13	1:D:4849:TYR:N	2.28	0.49
1:D:4994:TYR:C	1:D:4994:TYR:CD1	2.86	0.49
1:A:3699:HIS:O	1:A:3700:GLN:C	2.51	0.48
1:A:4888:TYR:CD1	1:A:4888:TYR:C	2.85	0.48
1:A:501:ALA:HB1	1:A:505:GLU:CA	2.43	0.48
1:B:3833:GLN:NE2	1:B:3833:GLN:CA	2.73	0.48
1:B:38:ALA:HB1	1:B:64:ILE:C	2.18	0.48
1:B:4559:PHE:CD1	1:B:4559:PHE:C	2.85	0.48
1:C:1287:LEU:CB	1:C:1288:PHE:CA	2.90	0.48
1:C:3904:ARG:O	1:C:3905:THR:CB	2.60	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4146:LEU:HD23	1:C:4147:LEU:N	2.27	0.48
1:C:4234:PHE:CD1	1:C:4234:PHE:C	2.85	0.48
1:C:4928:LEU:CA	1:C:4931:ILE:HD13	2.42	0.48
1:C:500:ALA:HB1	1:C:515:TRP:CZ3	2.43	0.48
1:D:4928:LEU:CA	1:D:4931:ILE:HD13	2.42	0.48
1:A:1515:VAL:CB	1:A:1529:PHE:C	2.77	0.48
1:A:1679:ASN:C	1:A:1681:VAL:N	2.66	0.48
1:A:2505:PHE:CD1	1:A:2505:PHE:C	2.86	0.48
1:A:219:VAL:CB	1:A:261:ARG:CA	2.89	0.48
1:A:4944:ARG:CZ	1:D:4942:GLU:CB	2.91	0.48
1:B:1515:VAL:CB	1:B:1529:PHE:C	2.77	0.48
1:B:2278:ALA:C	1:B:2280:VAL:N	2.66	0.48
1:B:2557:ALA:O	1:B:2561:LEU:N	2.45	0.48
1:B:2770:LYS:O	1:B:2775:TRP:CB	2.60	0.48
1:B:4668:LEU:HD12	1:B:4668:LEU:C	2.30	0.48
1:C:1803:PRO:O	1:C:1806:ALA:CB	2.60	0.48
1:C:4651:THR:OG1	1:C:4799:SER:OG	2.28	0.48
1:C:501:ALA:HB1	1:C:505:GLU:CA	2.43	0.48
1:C:5021:PHE:CZ	1:C:5022:PHE:CE1	3.02	0.48
1:D:1226:PHE:N	1:D:1226:PHE:CD1	2.81	0.48
1:D:123:THR:O	1:D:133:PHE:HB3	2.14	0.48
1:D:341:TYR:C	1:D:343:GLU:H	2.14	0.48
1:D:3828:PHE:C	1:D:3828:PHE:CD1	2.86	0.48
1:D:422:SER:N	1:D:423:GLY:CA	2.71	0.48
1:D:4725:LEU:O	1:D:4728:HIS:O	2.30	0.48
1:A:173:SER:HA	1:A:174:VAL:CB	2.43	0.48
1:A:2240:CYS:O	1:A:2241:ARG:C	2.52	0.48
1:B:3934:TYR:CE1	1:B:3935:TRP:HZ3	2.19	0.48
1:B:5009:TYR:CD1	1:B:5009:TYR:C	2.85	0.48
1:B:5021:PHE:CZ	1:B:5022:PHE:CE1	3.02	0.48
1:C:123:THR:O	1:C:133:PHE:HB3	2.14	0.48
1:C:439:GLU:N	1:C:442:ILE:H	2.11	0.48
1:C:4791:TYR:C	1:C:4791:TYR:CD1	2.85	0.48
1:C:4821:LYS:HA	1:C:4824:ARG:CB	2.44	0.48
1:D:2200:ALA:O	1:D:2201:LEU:C	2.50	0.48
1:D:4715:TYR:O	1:D:4716:TRP:CG	2.66	0.48
1:D:4833:ASN:HD21	1:D:4939:ALA:CB	2.21	0.48
1:A:3904:ARG:O	1:A:3905:THR:CB	2.60	0.48
1:A:439:GLU:N	1:A:442:ILE:H	2.11	0.48
1:A:4670:ILE:O	1:A:4670:ILE:HD12	2.13	0.48
1:A:4806:ASN:ND2	1:A:4806:ASN:N	2.60	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:17:ASP:CA	1:A:69:LEU:O	2.60	0.48
1:B:1621:GLY:HA2	1:B:1628:VAL:CB	2.43	0.48
1:B:2453:ILE:N	1:B:2456:ILE:H	2.11	0.48
1:B:2765:LYS:O	1:B:2769:ASP:N	2.41	0.48
1:B:4670:ILE:O	1:B:4670:ILE:HD12	2.13	0.48
1:B:4818:MET:HA	1:B:4819:GLY:HA3	1.54	0.48
1:B:4861:LYS:O	1:B:4862:PHE:HB2	2.14	0.48
1:C:1226:PHE:N	1:C:1226:PHE:CD1	2.81	0.48
1:C:4857:ASN:O	1:C:4858:PHE:HD1	1.87	0.48
1:C:4861:LYS:O	1:C:4862:PHE:HB2	2.14	0.48
1:C:5021:PHE:CE1	1:C:5022:PHE:CE1	3.01	0.48
1:D:4928:LEU:HA	1:D:4931:ILE:HD13	1.92	0.48
1:D:4195:PHE:CZ	1:D:4991:PHE:CA	2.96	0.48
1:A:1226:PHE:N	1:A:1226:PHE:CD1	2.81	0.48
1:A:2239:PHE:C	1:A:2239:PHE:CD1	2.85	0.48
1:A:4150:LEU:HD12	1:A:4150:LEU:C	2.29	0.48
1:A:4668:LEU:HD12	1:A:4668:LEU:C	2.30	0.48
1:A:4960:ILE:CA	1:A:4961:CYS:CB	2.92	0.48
1:A:635:THR:CB	1:A:1639:LEU:CB	2.92	0.48
1:B:451:TYR:CD1	1:B:451:TYR:C	2.85	0.48
1:B:4575:PHE:C	1:B:4575:PHE:CD1	2.85	0.48
1:B:4715:TYR:O	1:B:4716:TRP:CG	2.66	0.48
1:B:4821:LYS:HA	1:B:4824:ARG:CB	2.44	0.48
1:B:5021:PHE:CG	1:B:5022:PHE:N	2.81	0.48
1:B:5021:PHE:C	1:B:5022:PHE:O	2.28	0.48
1:C:2505:PHE:C	1:C:2505:PHE:CD1	2.86	0.48
1:C:4877:ASP:CB	1:C:4881:THR:OG1	2.62	0.48
1:C:4885:PHE:CZ	1:C:4889:VAL:CG1	2.89	0.48
1:C:5032:TYR:HA	1:C:5033:GLU:HB3	1.95	0.48
1:D:1272:LEU:N	1:D:1273:ALA:CB	2.73	0.48
1:D:2572:THR:O	1:D:2575:ARG:CB	2.62	0.48
1:D:2125:HIS:CB	1:D:3725:TYR:OH	2.59	0.48
1:D:4651:THR:HA	1:D:4799:SER:OG	2.14	0.48
1:D:4861:LYS:O	1:D:4862:PHE:HB2	2.14	0.48
1:D:500:ALA:HB1	1:D:515:TRP:CZ3	2.43	0.48
1:D:5021:PHE:CZ	1:D:5022:PHE:CE1	3.02	0.48
1:A:2531:ARG:O	1:A:2532:ALA:C	2.52	0.48
1:B:4925:ILE:CD1	1:B:4925:ILE:H	2.18	0.48
1:B:5031:GLN:NE2	1:B:5032:TYR:CE1	2.81	0.48
1:B:635:THR:CB	1:B:1639:LEU:CB	2.92	0.48
1:C:1272:LEU:N	1:C:1273:ALA:CB	2.73	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4180:ARG:CA	1:C:4181:ILE:HB	2.43	0.48
1:C:4651:THR:HA	1:C:4799:SER:OG	2.14	0.48
1:C:635:THR:CB	1:C:1639:LEU:CB	2.92	0.48
1:D:1287:LEU:CB	1:D:1288:PHE:CA	2.90	0.48
1:D:1621:GLY:HA2	1:D:1628:VAL:CB	2.43	0.48
1:D:3699:HIS:O	1:D:3700:GLN:C	2.51	0.48
1:D:4104:THR:O	1:D:4108:ILE:N	2.42	0.48
1:D:4968:PHE:HD2	1:D:4978:HIS:HB2	1.71	0.48
1:D:538:ALA:O	1:D:539:LEU:C	2.51	0.48
1:A:4173:TYR:CD2	1:A:4174:PHE:CD1	3.01	0.48
1:A:4667:PRO:HA	1:A:4670:ILE:HG22	1.95	0.48
1:B:2546:MET:O	1:B:2549:ALA:HB3	2.14	0.48
1:B:3062:PRO:HA	1:B:3063:ALA:C	2.33	0.48
1:B:701:GLY:HA2	1:B:1645:ASN:CB	2.44	0.48
1:C:1679:ASN:C	1:C:1681:VAL:N	2.66	0.48
1:C:4851:TYR:HA	1:C:4854:VAL:CG2	2.43	0.48
1:D:4093:PHE:C	1:D:4093:PHE:CD1	2.86	0.48
1:D:4877:ASP:CB	1:D:4881:THR:OG1	2.62	0.48
1:A:3062:PRO:HA	1:A:3063:ALA:C	2.33	0.48
1:A:4715:TYR:O	1:A:4716:TRP:CG	2.66	0.48
1:A:4861:LYS:O	1:A:4862:PHE:HB2	2.14	0.48
1:A:4982:GLU:CB	1:A:4983:HIS:C	2.81	0.48
1:A:5021:PHE:CG	1:A:5022:PHE:N	2.81	0.48
1:B:4180:ARG:CA	1:B:4181:ILE:HB	2.43	0.48
1:B:439:GLU:N	1:B:442:ILE:H	2.11	0.48
1:B:668:VAL:O	1:B:740:PRO:HA	2.14	0.48
1:C:4181:ILE:HG13	1:C:4194:TYR:HA	1.89	0.48
1:C:4918:ILE:CG2	1:C:4919:THR:N	2.75	0.48
1:C:4960:ILE:CA	1:C:4961:CYS:CB	2.92	0.48
1:D:1164:LEU:O	1:D:1166:GLY:N	2.47	0.48
1:D:1515:VAL:CB	1:D:1529:PHE:C	2.77	0.48
1:D:4818:MET:HA	1:D:4819:GLY:HA3	1.54	0.48
1:A:72:SER:HA	1:A:106:ALA:H	1.79	0.48
1:A:1638:ALA:CB	1:A:1649:ASP:N	2.73	0.48
1:A:2200:ALA:O	1:A:2201:LEU:C	2.50	0.48
1:A:2546:MET:O	1:A:2549:ALA:HB3	2.14	0.48
1:A:4933:GLN:O	1:A:4937:ILE:HB	2.14	0.48
1:A:5032:TYR:HA	1:A:5033:GLU:HB3	1.95	0.48
1:B:1164:LEU:O	1:B:1166:GLY:N	2.47	0.48
1:B:123:THR:O	1:B:133:PHE:HB3	2.14	0.48
1:B:2240:CYS:O	1:B:2241:ARG:C	2.52	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2274:ASP:C	1:B:2277:ALA:HB3	2.32	0.48
1:B:4922:PHE:O	1:B:4926:VAL:CG1	2.62	0.48
1:C:173:SER:HA	1:C:174:VAL:CB	2.43	0.48
1:C:2572:THR:O	1:C:2575:ARG:CB	2.62	0.48
1:C:422:SER:N	1:C:423:GLY:CA	2.72	0.48
1:C:4948:GLU:OE1	1:C:4949:GLN:HA	2.13	0.48
1:D:1718:ILE:HA	1:D:1720:LEU:CB	2.44	0.48
1:D:3962:PHE:HE2	1:D:4023:MET:N	2.05	0.48
1:D:4670:ILE:HD12	1:D:4670:ILE:O	2.13	0.48
1:A:3415:TYR:O	1:A:3419:ASN:CB	2.62	0.48
1:A:4922:PHE:O	1:A:4926:VAL:CG1	2.62	0.48
1:A:4936:ILE:HG23	1:A:4937:ILE:H	1.74	0.48
1:A:4954:MET:CE	1:A:4955:GLU:N	2.76	0.48
1:A:500:ALA:CB	1:A:515:TRP:HH2	2.21	0.48
1:B:1094:ALA:HA	1:B:1200:GLY:HA3	1.96	0.48
1:B:1237:TRP:CA	1:B:1611:HIS:CB	2.87	0.48
1:B:4146:LEU:HD23	1:B:4147:LEU:N	2.27	0.48
1:B:4960:ILE:CA	1:B:4961:CYS:CB	2.92	0.48
1:C:4667:PRO:HA	1:C:4670:ILE:HG22	1.95	0.48
1:C:4823:LEU:HD22	1:C:4823:LEU:C	2.33	0.48
1:C:4848:VAL:HG13	1:C:4849:TYR:N	2.28	0.48
1:C:4933:GLN:O	1:C:4937:ILE:HB	2.14	0.48
1:C:72:SER:HA	1:C:106:ALA:H	1.79	0.48
1:D:4181:ILE:CG2	1:D:4182:GLU:N	2.68	0.48
1:D:439:GLU:N	1:D:442:ILE:H	2.11	0.48
1:D:4667:PRO:HA	1:D:4670:ILE:HG22	1.95	0.48
1:D:4925:ILE:CD1	1:D:4925:ILE:H	2.18	0.48
1:D:501:ALA:HB1	1:D:505:GLU:CA	2.43	0.48
1:D:608:VAL:CA	1:D:613:ALA:CB	2.85	0.48
1:D:701:GLY:HA2	1:D:1645:ASN:CB	2.44	0.48
1:A:1164:LEU:O	1:A:1166:GLY:N	2.47	0.47
1:A:123:THR:O	1:A:133:PHE:HB3	2.14	0.47
1:A:4930:ALA:HB3	1:B:4936:ILE:CD1	2.24	0.47
1:A:4966:ASP:CA	1:A:4969:ASP:CB	2.92	0.47
1:A:668:VAL:O	1:A:740:PRO:HA	2.14	0.47
1:B:1803:PRO:O	1:B:1806:ALA:CB	2.60	0.47
1:B:4104:THR:O	1:B:4108:ILE:N	2.42	0.47
1:B:72:SER:HA	1:B:106:ALA:H	1.79	0.47
1:C:2149:VAL:O	1:C:2150:GLU:C	2.51	0.47
1:C:245:VAL:C	1:C:247:TYR:H	2.05	0.47
1:C:4173:TYR:CD2	1:C:4174:PHE:CD1	3.01	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4653:VAL:C	1:C:4657:CYS:HG	2.01	0.47
1:C:4670:ILE:HD12	1:C:4670:ILE:O	2.13	0.47
1:C:4715:TYR:O	1:C:4716:TRP:CG	2.66	0.47
1:C:4720:VAL:HG13	1:C:4721:LYS:N	2.29	0.47
1:D:634:GLN:C	1:D:1639:LEU:CB	2.81	0.47
1:D:2149:VAL:O	1:D:2150:GLU:C	2.51	0.47
1:D:2546:MET:O	1:D:2549:ALA:HB3	2.14	0.47
1:D:3766:GLN:CB	1:D:3769:ARG:NH2	2.77	0.47
1:D:4720:VAL:HG13	1:D:4721:LYS:N	2.29	0.47
1:D:4851:TYR:HA	1:D:4854:VAL:CG2	2.43	0.47
1:D:635:THR:CB	1:D:1639:LEU:CB	2.92	0.47
1:A:2453:ILE:N	1:A:2456:ILE:H	2.12	0.47
1:A:4818:MET:HA	1:A:4819:GLY:HA3	1.54	0.47
1:A:4914:VAL:HG23	1:B:4888:TYR:CE2	2.45	0.47
1:B:2125:HIS:CB	1:B:3725:TYR:OH	2.59	0.47
1:B:3766:GLN:CB	1:B:3769:ARG:NH2	2.77	0.47
1:B:4093:PHE:CD1	1:B:4093:PHE:C	2.86	0.47
1:B:4193:ILE:CG2	1:B:4194:TYR:N	2.76	0.47
1:C:1124:PHE:HE2	1:C:1162:PHE:HD2	1.61	0.47
1:C:2240:CYS:O	1:C:2241:ARG:C	2.52	0.47
1:C:3766:GLN:CB	1:C:3769:ARG:NH2	2.77	0.47
1:D:1094:ALA:HA	1:D:1200:GLY:HA3	1.96	0.47
1:D:2168:VAL:HA	1:D:2169:GLN:CB	2.44	0.47
1:D:2240:CYS:O	1:D:2241:ARG:C	2.52	0.47
1:D:2278:ALA:C	1:D:2280:VAL:N	2.66	0.47
1:D:2453:ILE:N	1:D:2456:ILE:H	2.12	0.47
1:D:2557:ALA:O	1:D:2561:LEU:N	2.45	0.47
1:A:788:LYS:CB	1:A:1629:GLN:HA	2.39	0.47
1:A:2274:ASP:C	1:A:2277:ALA:HB3	2.32	0.47
1:A:4848:VAL:HG13	1:A:4849:TYR:N	2.28	0.47
1:B:1133:HIS:N	1:B:1135:GLY:N	2.60	0.47
1:B:1718:ILE:HA	1:B:1720:LEU:CB	2.44	0.47
1:B:2572:THR:O	1:B:2575:ARG:CB	2.62	0.47
1:B:4644:TRP:HE3	1:B:4645:CYS:CA	2.26	0.47
1:B:4954:MET:SD	1:B:4954:MET:C	2.93	0.47
1:C:701:GLY:HA2	1:C:1645:ASN:CB	2.44	0.47
1:C:2168:VAL:HA	1:C:2169:GLN:CB	2.44	0.47
1:C:3699:HIS:C	1:C:3701:LEU:N	2.66	0.47
1:C:4922:PHE:O	1:C:4926:VAL:CG1	2.62	0.47
1:C:668:VAL:O	1:C:740:PRO:HA	2.14	0.47
1:D:72:SER:HA	1:D:106:ALA:H	1.79	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1679:ASN:C	1:D:1681:VAL:N	2.66	0.47
1:D:4823:LEU:HD22	1:D:4823:LEU:C	2.33	0.47
1:D:4966:ASP:CA	1:D:4969:ASP:CB	2.92	0.47
1:D:546:TRP:CZ3	1:D:547:VAL:HA	2.49	0.47
1:A:229:GLU:HA	1:A:249:GLY:HA2	1.97	0.47
1:A:4922:PHE:O	1:A:4926:VAL:HG11	2.14	0.47
1:A:5021:PHE:CZ	1:A:5022:PHE:CE1	3.02	0.47
1:B:2168:VAL:HA	1:B:2169:GLN:CB	2.44	0.47
1:B:229:GLU:HA	1:B:249:GLY:HA2	1.97	0.47
1:B:2531:ARG:O	1:B:2532:ALA:C	2.52	0.47
1:B:4182:GLU:OE1	1:B:4988:TYR:HB2	2.14	0.47
1:B:4720:VAL:HG13	1:B:4721:LYS:N	2.29	0.47
1:B:4848:VAL:HG13	1:B:4849:TYR:N	2.28	0.47
1:B:4922:PHE:O	1:B:4926:VAL:HG11	2.14	0.47
1:C:2453:ILE:N	1:C:2456:ILE:H	2.12	0.47
1:C:4093:PHE:CD1	1:C:4093:PHE:C	2.86	0.47
1:C:4966:ASP:CA	1:C:4969:ASP:CB	2.92	0.47
1:D:789:VAL:N	1:D:1628:VAL:O	2.46	0.47
1:D:4638:TYR:O	1:D:4641:PRO:HD2	2.14	0.47
1:D:4922:PHE:O	1:D:4926:VAL:HG11	2.14	0.47
1:D:4922:PHE:O	1:D:4926:VAL:CG1	2.62	0.47
1:D:4960:ILE:CA	1:D:4961:CYS:CB	2.92	0.47
1:D:668:VAL:O	1:D:740:PRO:HA	2.14	0.47
1:A:1094:ALA:HA	1:A:1200:GLY:HA3	1.96	0.47
1:A:4651:THR:HA	1:A:4799:SER:OG	2.14	0.47
1:A:4823:LEU:C	1:A:4823:LEU:HD22	2.33	0.47
1:B:341:TYR:C	1:B:343:GLU:N	2.68	0.47
1:B:4966:ASP:CA	1:B:4969:ASP:CB	2.92	0.47
1:C:1164:LEU:O	1:C:1166:GLY:N	2.47	0.47
1:C:354:GLY:O	1:C:380:GLN:CB	2.62	0.47
1:C:3795:SER:CB	1:C:3880:PHE:CE2	2.98	0.47
1:C:4687:TYR:N	1:C:4692:PRO:CD	2.61	0.47
1:C:989:ALA:O	1:C:993:HIS:N	2.40	0.47
1:D:2044:ILE:O	1:D:2047:GLU:CB	2.63	0.47
1:D:229:GLU:HA	1:D:249:GLY:HA2	1.97	0.47
1:D:3415:TYR:O	1:D:3419:ASN:CB	2.62	0.47
1:D:4180:ARG:CA	1:D:4181:ILE:HB	2.43	0.47
1:D:4821:LYS:HA	1:D:4824:ARG:CB	2.44	0.47
1:A:354:GLY:O	1:A:380:GLN:CB	2.62	0.47
1:A:4885:PHE:CZ	1:A:4889:VAL:CG1	2.89	0.47
1:A:4947:GLN:OE1	1:A:4948:GLU:N	2.47	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:5021:PHE:C	1:A:5022:PHE:O	2.28	0.47
1:B:4667:PRO:HA	1:B:4670:ILE:HG22	1.95	0.47
1:B:4806:ASN:ND2	1:B:4806:ASN:N	2.60	0.47
1:B:4877:ASP:CB	1:B:4881:THR:OG1	2.62	0.47
1:B:4922:PHE:C	1:B:4922:PHE:CD1	2.88	0.47
1:B:546:TRP:CZ3	1:B:547:VAL:HA	2.49	0.47
1:C:4193:ILE:CG2	1:C:4194:TYR:N	2.76	0.47
1:C:546:TRP:CZ3	1:C:547:VAL:HA	2.49	0.47
1:D:354:GLY:O	1:D:380:GLN:CB	2.62	0.47
1:D:3699:HIS:C	1:D:3701:LEU:N	2.66	0.47
1:D:4180:ARG:H	1:D:4181:ILE:HG12	1.79	0.47
1:D:4559:PHE:HD1	1:D:4560:TYR:N	2.12	0.47
1:D:4908:GLU:CB	1:D:4909:TYR:C	2.83	0.47
1:D:488:LEU:CB	1:D:491:ILE:CB	2.92	0.47
1:D:5032:TYR:HA	1:D:5033:GLU:HB3	1.95	0.47
1:A:3935:TRP:HE1	1:D:77:ALA:HA	1.57	0.47
1:A:103:TYR:HA	1:A:104:GLY:HA2	1.62	0.47
1:A:2044:ILE:O	1:A:2047:GLU:CB	2.63	0.47
1:A:2168:VAL:HA	1:A:2169:GLN:CB	2.44	0.47
1:A:4821:LYS:HA	1:A:4824:ARG:CB	2.44	0.47
1:A:488:LEU:CB	1:A:491:ILE:CB	2.92	0.47
1:A:4954:MET:C	1:A:4954:MET:SD	2.93	0.47
1:A:5021:PHE:CE1	1:A:5022:PHE:CE1	3.01	0.47
1:B:1643:GLU:N	1:B:1644:GLU:CA	2.77	0.47
1:B:3415:TYR:O	1:B:3419:ASN:CB	2.62	0.47
1:B:500:ALA:HB1	1:B:515:TRP:CZ3	2.43	0.47
1:C:1133:HIS:N	1:C:1135:GLY:N	2.60	0.47
1:C:1638:ALA:CB	1:C:1649:ASP:N	2.73	0.47
1:C:3699:HIS:O	1:C:3700:GLN:C	2.51	0.47
1:C:4978:HIS:C	1:C:4978:HIS:CD2	2.88	0.47
1:D:1643:GLU:N	1:D:1644:GLU:CA	2.77	0.47
1:D:218:HIS:N	1:D:219:VAL:HA	2.30	0.47
1:D:229:GLU:HA	1:D:248:GLU:O	2.13	0.47
1:D:340:LYS:O	1:D:343:GLU:O	2.33	0.47
1:D:4954:MET:SD	1:D:4954:MET:C	2.93	0.47
1:A:2572:THR:O	1:A:2575:ARG:CB	2.62	0.47
1:A:4182:GLU:OE1	1:A:4988:TYR:CB	2.62	0.47
1:A:4877:ASP:CB	1:A:4881:THR:OG1	2.62	0.47
1:A:4978:HIS:C	1:A:4978:HIS:CD2	2.88	0.47
1:B:180:LEU:HA	1:B:181:HIS:HA	1.60	0.47
1:B:4651:THR:HA	1:B:4799:SER:OG	2.14	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:836:GLY:O	1:B:837:PRO:C	2.53	0.47
1:C:2591:ARG:HA	1:C:2592:GLY:HA3	1.58	0.47
1:C:341:TYR:C	1:C:343:GLU:N	2.68	0.47
1:C:4559:PHE:HD1	1:C:4560:TYR:N	2.12	0.47
1:C:4908:GLU:CB	1:C:4909:TYR:C	2.83	0.47
1:C:4922:PHE:O	1:C:4926:VAL:HG11	2.14	0.47
1:C:4971:THR:HG21	1:C:4974:GLY:HA3	1.87	0.47
1:A:1643:GLU:N	1:A:1644:GLU:CA	2.77	0.47
1:A:701:GLY:HA2	1:A:1645:ASN:CB	2.44	0.47
1:A:3766:GLN:CB	1:A:3769:ARG:NH2	2.77	0.47
1:A:4922:PHE:C	1:A:4922:PHE:CD1	2.88	0.47
1:A:4968:PHE:HD2	1:A:4978:HIS:HB3	1.78	0.47
1:A:788:LYS:CA	1:A:1629:GLN:CA	2.82	0.47
1:B:1124:PHE:HE2	1:B:1162:PHE:HD2	1.61	0.47
1:B:1933:GLU:O	1:B:1934:SER:C	2.52	0.47
1:B:3933:PHE:CD1	1:B:3934:TYR:N	2.83	0.47
1:B:4173:TYR:CD2	1:B:4174:PHE:CD1	3.01	0.47
1:B:422:SER:N	1:B:423:GLY:CA	2.72	0.47
1:C:1718:ILE:HA	1:C:1720:LEU:CB	2.44	0.47
1:C:2044:ILE:O	1:C:2047:GLU:CB	2.63	0.47
1:C:4180:ARG:H	1:C:4181:ILE:HG12	1.79	0.47
1:D:2765:LYS:O	1:D:2769:ASP:N	2.41	0.47
1:D:3795:SER:CB	1:D:3880:PHE:CE2	2.98	0.47
1:D:4685:GLY:N	1:D:4689:THR:CB	2.72	0.47
1:D:4948:GLU:OE1	1:D:4949:GLN:HA	2.15	0.47
1:A:1133:HIS:N	1:A:1135:GLY:N	2.60	0.47
1:A:340:LYS:O	1:A:343:GLU:O	2.33	0.47
1:A:4141:PHE:CZ	1:A:4196:GLU:HA	2.49	0.47
1:A:4183:ILE:O	1:A:5023:PRO:HD3	2.15	0.47
1:A:4559:PHE:HD1	1:A:4560:TYR:N	2.12	0.47
1:A:4908:GLU:CB	1:A:4909:TYR:C	2.83	0.47
1:A:4948:GLU:OE1	1:A:4949:GLN:HA	2.14	0.47
1:B:245:VAL:C	1:B:247:TYR:H	2.05	0.47
1:B:3795:SER:CB	1:B:3880:PHE:CE2	2.98	0.47
1:B:4181:ILE:HG13	1:B:4194:TYR:HA	1.89	0.47
1:B:4562:LEU:CB	1:B:4657:CYS:HB3	2.45	0.47
1:B:4642:ALA:CA	1:B:4645:CYS:SG	3.01	0.47
1:B:4833:ASN:HD21	1:B:4939:ALA:CB	2.21	0.47
1:B:4183:ILE:O	1:B:5023:PRO:HD3	2.15	0.47
1:B:5032:TYR:HA	1:B:5033:GLU:HB3	1.95	0.47
1:C:1515:VAL:CB	1:C:1529:PHE:C	2.77	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:179:TYR:O	1:C:181:HIS:HA	2.15	0.47
1:C:253:CYS:C	1:C:255:HIS:CB	2.84	0.47
1:C:3415:TYR:O	1:C:3419:ASN:CB	2.62	0.47
1:C:4686:LEU:CB	1:C:4692:PRO:CG	2.81	0.47
1:C:4954:MET:SD	1:C:4954:MET:C	2.93	0.47
1:A:1718:ILE:HA	1:A:1720:LEU:CB	2.44	0.47
1:A:4180:ARG:H	1:A:4181:ILE:HG12	1.79	0.47
1:A:4638:TYR:O	1:A:4641:PRO:HD2	2.14	0.47
1:A:4720:VAL:HG13	1:A:4721:LYS:N	2.29	0.47
1:B:1226:PHE:HD1	1:B:1226:PHE:N	2.13	0.47
1:B:1272:LEU:N	1:B:1273:ALA:CB	2.73	0.47
1:B:2044:ILE:O	1:B:2047:GLU:CB	2.63	0.47
1:B:2591:ARG:HA	1:B:2592:GLY:HA3	1.58	0.47
1:B:2592:GLY:N	1:B:2595:LEU:H	1.96	0.47
1:B:3893:GLU:O	1:B:3895:HIS:N	2.40	0.47
1:B:488:LEU:CB	1:B:491:ILE:CB	2.92	0.47
1:C:2278:ALA:C	1:C:2280:VAL:N	2.66	0.47
1:C:229:GLU:HA	1:C:249:GLY:HA2	1.97	0.47
1:C:4173:TYR:CD2	1:C:4174:PHE:CE1	3.03	0.47
1:C:4562:LEU:CB	1:C:4657:CYS:HB3	2.45	0.47
1:C:488:LEU:CB	1:C:491:ILE:CB	2.92	0.47
1:D:1736:VAL:O	1:D:2144:ILE:CB	2.63	0.47
1:D:1933:GLU:O	1:D:1934:SER:C	2.52	0.47
1:D:4885:PHE:CE2	1:D:4889:VAL:HG11	2.49	0.47
1:A:1226:PHE:N	1:A:1226:PHE:HD1	2.14	0.46
1:A:3795:SER:CB	1:A:3880:PHE:CE2	2.98	0.46
1:A:4231:MET:O	1:A:4235:VAL:HG23	2.16	0.46
1:A:4891:VAL:CG1	1:D:4918:ILE:CA	2.47	0.46
1:A:5001:THR:HG23	1:A:5002:GLU:N	2.30	0.46
1:A:546:TRP:CZ3	1:A:547:VAL:HA	2.49	0.46
1:B:1749:PRO:C	1:B:1751:GLY:H	2.13	0.46
1:B:253:CYS:C	1:B:255:HIS:CB	2.84	0.46
1:B:354:GLY:O	1:B:380:GLN:CB	2.62	0.46
1:B:4173:TYR:CD2	1:B:4174:PHE:CE1	3.03	0.46
1:B:4920:PHE:CD1	1:B:4920:PHE:C	2.89	0.46
1:B:4971:THR:HG21	1:B:4974:GLY:HA3	1.87	0.46
1:C:1094:ALA:HA	1:C:1200:GLY:HA3	1.96	0.46
1:C:1643:GLU:N	1:C:1644:GLU:CA	2.77	0.46
1:C:1828:ASP:CB	1:C:1829:PRO:CA	2.82	0.46
1:C:2546:MET:O	1:C:2549:ALA:HB3	2.14	0.46
1:C:4141:PHE:CZ	1:C:4196:GLU:HA	2.49	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4920:PHE:C	1:C:4920:PHE:CD1	2.89	0.46
1:C:538:ALA:O	1:C:539:LEU:C	2.51	0.46
1:D:1244:GLN:O	1:D:1604:SER:C	2.54	0.46
1:D:1466:LEU:HA	1:D:1467:SER:HA	1.65	0.46
1:D:179:TYR:O	1:D:181:HIS:HA	2.15	0.46
1:D:2531:ARG:O	1:D:2532:ALA:C	2.52	0.46
1:D:4141:PHE:CZ	1:D:4196:GLU:HA	2.49	0.46
1:D:4562:LEU:CB	1:D:4657:CYS:HB3	2.45	0.46
1:A:634:GLN:C	1:A:1639:LEU:CB	2.81	0.46
1:A:5031:GLN:NE2	1:A:5032:TYR:CD1	2.73	0.46
1:A:538:ALA:O	1:A:539:LEU:C	2.51	0.46
1:B:4231:MET:O	1:B:4235:VAL:HG23	2.16	0.46
1:B:4638:TYR:O	1:B:4641:PRO:HD2	2.14	0.46
1:B:4908:GLU:CB	1:B:4909:TYR:C	2.83	0.46
1:B:4925:ILE:CD1	1:B:4925:ILE:N	2.73	0.46
1:B:4968:PHE:HD2	1:B:4978:HIS:HB3	1.78	0.46
1:C:3933:PHE:CD1	1:C:3934:TYR:N	2.83	0.46
1:C:4834:GLY:HA2	1:C:4837:LEU:CB	2.36	0.46
1:D:1638:ALA:HB1	1:D:1649:ASP:N	2.24	0.46
1:D:2105:TRP:CD2	1:D:2106:ALA:N	2.83	0.46
1:D:3933:PHE:CD1	1:D:3934:TYR:N	2.83	0.46
1:D:4235:VAL:CA	1:D:4238:CYS:SG	3.00	0.46
1:D:4920:PHE:CD1	1:D:4920:PHE:C	2.89	0.46
1:D:4833:ASN:ND2	1:D:4939:ALA:HB2	2.24	0.46
1:A:1736:VAL:O	1:A:2144:ILE:CB	2.63	0.46
1:A:179:TYR:O	1:A:181:HIS:HA	2.15	0.46
1:A:2105:TRP:CD2	1:A:2106:ALA:N	2.83	0.46
1:A:4914:VAL:CG2	1:B:4888:TYR:CD2	2.65	0.46
1:B:1515:VAL:CB	1:B:1529:PHE:CA	2.89	0.46
1:B:2105:TRP:CD2	1:B:2106:ALA:N	2.83	0.46
1:B:3904:ARG:O	1:B:3905:THR:CB	2.60	0.46
1:C:2531:ARG:O	1:C:2532:ALA:C	2.52	0.46
1:C:38:ALA:HB1	1:C:64:ILE:C	2.18	0.46
1:C:4124:ASN:O	1:C:4125:PHE:CG	2.69	0.46
1:C:4183:ILE:O	1:C:5023:PRO:HD3	2.15	0.46
1:C:4818:MET:HA	1:C:4819:GLY:HA3	1.54	0.46
1:C:4954:MET:HE1	1:C:4955:GLU:HA	1.97	0.46
1:C:4182:GLU:OE1	1:C:4988:TYR:HB2	2.15	0.46
1:C:839:LEU:O	1:C:1199:VAL:CA	2.61	0.46
1:D:1288:PHE:C	1:D:1553:PHE:CA	2.69	0.46
1:D:253:CYS:C	1:D:255:HIS:CB	2.84	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2884:ASN:O	1:D:2888:ARG:CB	2.64	0.46
1:D:4124:ASN:O	1:D:4125:PHE:CG	2.69	0.46
1:D:5001:THR:HG23	1:D:5002:GLU:N	2.30	0.46
1:A:1708:ARG:CG	1:A:1712:TYR:CE2	2.86	0.46
1:A:1933:GLU:O	1:A:1934:SER:C	2.52	0.46
1:A:341:TYR:C	1:A:343:GLU:N	2.68	0.46
1:A:3933:PHE:CD1	1:A:3934:TYR:N	2.83	0.46
1:A:4562:LEU:CB	1:A:4657:CYS:HB3	2.45	0.46
1:A:4885:PHE:CE2	1:A:4889:VAL:HG11	2.49	0.46
1:B:1441:ALA:HA	1:B:1561:VAL:O	2.16	0.46
1:B:340:LYS:O	1:B:343:GLU:O	2.33	0.46
1:B:4783:ILE:HD13	1:B:4784:PHE:N	2.31	0.46
1:B:4978:HIS:CD2	1:B:4978:HIS:C	2.88	0.46
1:B:989:ALA:O	1:B:993:HIS:N	2.40	0.46
1:C:340:LYS:O	1:C:343:GLU:O	2.33	0.46
1:C:4638:TYR:O	1:C:4641:PRO:HD2	2.14	0.46
1:C:5001:THR:HG23	1:C:5002:GLU:N	2.31	0.46
1:C:4995:LEU:HD13	1:C:5011:TRP:CZ3	2.41	0.46
1:D:103:TYR:HA	1:D:104:GLY:HA2	1.62	0.46
1:D:1803:PRO:O	1:D:1806:ALA:CB	2.60	0.46
1:D:4183:ILE:O	1:D:5023:PRO:HD3	2.15	0.46
1:D:836:GLY:O	1:D:837:PRO:C	2.53	0.46
1:A:253:CYS:C	1:A:255:HIS:CB	2.84	0.46
1:A:2884:ASN:O	1:A:2888:ARG:CB	2.64	0.46
1:B:103:TYR:HA	1:B:104:GLY:HA2	1.62	0.46
1:B:4243:PHE:CD2	1:B:4671:PHE:CE1	2.89	0.46
1:B:4936:ILE:CG2	1:B:4937:ILE:N	2.78	0.46
1:B:4195:PHE:CZ	1:B:4991:PHE:CA	2.96	0.46
1:C:3658:LYS:CA	1:C:3661:TRP:CD1	2.91	0.46
1:C:501:ALA:HB1	1:C:505:GLU:HA	1.97	0.46
1:D:219:VAL:CB	1:D:261:ARG:CA	2.89	0.46
1:D:4183:ILE:CD1	1:D:4183:ILE:N	2.72	0.46
1:C:4935:LEU:HD23	1:D:4940:PHE:CE2	2.46	0.46
1:D:4978:HIS:C	1:D:4978:HIS:CD2	2.88	0.46
1:A:180:LEU:HA	1:A:181:HIS:HA	1.60	0.46
1:A:4728:HIS:C	1:A:4730:ASP:CB	2.84	0.46
1:B:4003:LEU:HA	1:B:4004:ALA:HA	1.68	0.46
1:B:4559:PHE:HD1	1:B:4560:TYR:N	2.12	0.46
1:C:218:HIS:N	1:C:219:VAL:HA	2.30	0.46
1:C:4195:PHE:CZ	1:C:4991:PHE:CA	2.96	0.46
1:A:3986:TRP:H	1:A:3988:ALA:CB	2.29	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:219:VAL:CB	1:B:261:ARG:CA	2.89	0.46
1:B:4124:ASN:O	1:B:4125:PHE:CG	2.69	0.46
1:B:4856:PHE:HE1	1:B:4857:ASN:HD21	1.63	0.46
1:B:5031:GLN:NE2	1:B:5032:TYR:CD1	2.73	0.46
1:C:132:ALA:C	1:C:133:PHE:CG	2.89	0.46
1:C:180:LEU:HA	1:C:181:HIS:HA	1.60	0.46
1:C:1736:VAL:O	1:C:2144:ILE:CB	2.63	0.46
1:C:4856:PHE:HE1	1:C:4857:ASN:HD21	1.63	0.46
1:C:5018:CYS:C	1:C:5019:TRP:HD1	2.19	0.46
1:D:1285:GLU:CB	1:D:1555:LEU:CB	2.94	0.46
1:D:4181:ILE:HG13	1:D:4194:TYR:HA	1.89	0.46
1:D:4783:ILE:HD13	1:D:4784:PHE:N	2.31	0.46
1:D:4971:THR:HG21	1:D:4974:GLY:HA3	1.87	0.46
1:D:4182:GLU:OE1	1:D:4988:TYR:HB2	2.14	0.46
1:D:501:ALA:HB1	1:D:505:GLU:HA	1.97	0.46
1:A:1441:ALA:HA	1:A:1561:VAL:O	2.16	0.46
1:A:1244:GLN:O	1:A:1604:SER:C	2.54	0.46
1:A:218:HIS:N	1:A:219:VAL:HA	2.30	0.46
1:A:4239:GLU:O	1:A:4240:ASP:C	2.54	0.46
1:A:4843:LEU:HD23	1:A:4844:LEU:N	2.31	0.46
1:A:4920:PHE:CD1	1:A:4920:PHE:C	2.89	0.46
1:B:1244:GLN:O	1:B:1604:SER:C	2.54	0.46
1:B:1736:VAL:O	1:B:2144:ILE:CB	2.63	0.46
1:B:2775:TRP:HA	1:B:2786:LYS:O	2.16	0.46
1:B:3047:ALA:O	1:B:3050:VAL:CB	2.64	0.46
1:B:4173:TYR:HD2	1:B:4174:PHE:HD1	1.64	0.46
1:C:220:LEU:CB	1:C:392:ARG:N	2.76	0.46
1:C:3942:VAL:CB	1:C:3943:ILE:CA	2.89	0.46
1:C:4922:PHE:C	1:C:4922:PHE:CD1	2.88	0.46
1:D:1441:ALA:HA	1:D:1561:VAL:O	2.16	0.46
1:D:379:HIS:CB	1:D:380:GLN:C	2.85	0.46
1:A:1165:ASN:C	1:A:1167:GLU:CB	2.84	0.46
1:A:1163:THR:CA	1:A:1168:VAL:HA	2.37	0.46
1:A:1716:ILE:O	1:A:1721:GLU:N	2.35	0.46
1:A:3104:GLU:O	1:A:3108:GLU:N	2.36	0.46
1:A:3792:ALA:O	1:A:3796:SER:N	2.41	0.46
1:A:4124:ASN:O	1:A:4125:PHE:CG	2.69	0.46
1:A:501:ALA:HB1	1:A:505:GLU:HA	1.97	0.46
1:B:2149:VAL:O	1:B:2150:GLU:C	2.51	0.46
1:C:1161:ILE:HA	1:C:1178:ALA:HB3	1.83	0.46
1:C:1466:LEU:HA	1:C:1467:SER:HA	1.65	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3893:GLU:C	1:C:3895:HIS:H	2.19	0.46
1:D:1165:ASN:C	1:D:1167:GLU:CB	2.84	0.46
1:D:1226:PHE:HD1	1:D:1226:PHE:N	2.14	0.46
1:D:1642:PRO:C	1:D:1644:GLU:CB	2.85	0.46
1:D:4173:TYR:CD2	1:D:4174:PHE:CE1	3.03	0.46
1:A:2775:TRP:HA	1:A:2786:LYS:O	2.16	0.46
1:A:4173:TYR:CD2	1:A:4174:PHE:CE1	3.03	0.46
1:A:4738:ALA:CA	1:A:4742:GLY:HA2	2.36	0.46
1:B:1165:ASN:C	1:B:1167:GLU:CB	2.84	0.46
1:B:1642:PRO:C	1:B:1644:GLU:CB	2.85	0.46
1:B:2884:ASN:O	1:B:2888:ARG:CB	2.64	0.46
1:B:3986:TRP:H	1:B:3988:ALA:CB	2.29	0.46
1:B:4727:LYS:O	1:B:4730:ASP:CB	2.64	0.46
1:B:501:ALA:HB1	1:B:505:GLU:HA	1.97	0.46
1:C:1285:GLU:CB	1:C:1555:LEU:CB	2.94	0.46
1:C:1642:PRO:C	1:C:1644:GLU:CB	2.85	0.46
1:C:2105:TRP:CD2	1:C:2106:ALA:N	2.83	0.46
1:C:2145:SER:CB	1:C:3648:ARG:CB	2.94	0.46
1:C:2775:TRP:HA	1:C:2786:LYS:O	2.16	0.46
1:C:4154:VAL:O	1:C:4154:VAL:HG12	2.16	0.46
1:D:4728:HIS:C	1:D:4730:ASP:CB	2.84	0.46
1:D:4935:LEU:CD2	1:D:4935:LEU:N	2.78	0.46
1:A:1160:ILE:O	1:A:1162:PHE:HD1	1.99	0.45
1:A:229:GLU:HA	1:A:248:GLU:O	2.13	0.45
1:A:254:THR:N	1:A:255:HIS:CB	2.79	0.45
1:A:3047:ALA:O	1:A:3050:VAL:CB	2.64	0.45
1:A:483:MET:O	1:A:484:LEU:C	2.54	0.45
1:A:4944:ARG:HH22	1:D:4942:GLU:CA	2.28	0.45
1:A:4996:ILE:C	1:A:4997:ASN:OD1	2.54	0.45
1:A:836:GLY:O	1:A:837:PRO:C	2.53	0.45
1:B:252:VAL:C	1:B:255:HIS:CB	2.85	0.45
1:B:3721:LEU:O	1:B:3725:TYR:CD1	2.60	0.45
1:B:4235:VAL:CA	1:B:4238:CYS:SG	3.00	0.45
1:B:4686:LEU:CB	1:B:4692:PRO:CG	2.81	0.45
1:B:4192:ARG:NH1	1:B:5028:PHE:CE2	2.84	0.45
1:C:1165:ASN:C	1:C:1167:GLU:CB	2.84	0.45
1:C:4843:LEU:HD23	1:C:4844:LEU:N	2.31	0.45
1:D:341:TYR:C	1:D:343:GLU:N	2.68	0.45
1:D:3934:TYR:CD1	1:D:3935:TRP:CE3	3.04	0.45
1:D:4184:MET:CA	1:D:5021:PHE:O	2.46	0.45
1:A:1124:PHE:HE2	1:A:1162:PHE:HD2	1.61	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:132:ALA:C	1:A:133:PHE:CG	2.89	0.45
1:A:1515:VAL:CB	1:A:1529:PHE:CA	2.89	0.45
1:A:3785:ALA:O	1:A:3787:LYS:N	2.50	0.45
1:A:4154:VAL:HG12	1:A:4154:VAL:O	2.16	0.45
1:A:4922:PHE:O	1:A:4922:PHE:CG	2.70	0.45
1:B:254:THR:N	1:B:255:HIS:CB	2.79	0.45
1:B:3699:HIS:C	1:B:3701:LEU:N	2.66	0.45
1:B:4651:THR:HG23	1:B:4652:LEU:N	2.31	0.45
1:B:4823:LEU:C	1:B:4823:LEU:HD22	2.33	0.45
1:B:5001:THR:HG23	1:B:5002:GLU:N	2.30	0.45
1:B:707:VAL:HA	1:B:725:HIS:CA	2.47	0.45
1:B:927:GLU:O	1:B:930:LYS:N	2.50	0.45
1:C:211:GLU:C	1:C:213:TYR:CB	2.85	0.45
1:C:2274:ASP:CA	1:C:2277:ALA:HB3	2.47	0.45
1:C:2884:ASN:O	1:C:2888:ARG:CB	2.64	0.45
1:C:3103:ILE:O	1:C:3107:VAL:N	2.36	0.45
1:C:4885:PHE:CE2	1:C:4889:VAL:HG11	2.49	0.45
1:C:791:PHE:O	1:C:1626:TRP:O	2.35	0.45
1:D:791:PHE:O	1:D:1626:TRP:O	2.35	0.45
1:D:1749:PRO:C	1:D:1751:GLY:H	2.13	0.45
1:D:211:GLU:C	1:D:213:TYR:CB	2.85	0.45
1:D:252:VAL:C	1:D:255:HIS:CB	2.85	0.45
1:D:254:THR:N	1:D:255:HIS:CB	2.79	0.45
1:D:3893:GLU:C	1:D:3895:HIS:H	2.19	0.45
1:D:4555:LEU:C	1:D:4558:ASN:CB	2.85	0.45
1:D:4944:ARG:C	1:D:4944:ARG:CD	2.85	0.45
1:D:5031:GLN:NE2	1:D:5032:TYR:CD1	2.73	0.45
1:A:379:HIS:CB	1:A:380:GLN:C	2.85	0.45
1:A:4783:ILE:HD13	1:A:4789:PHE:CE2	2.52	0.45
1:A:4856:PHE:HE1	1:A:4857:ASN:HD21	1.63	0.45
1:B:2168:VAL:CB	1:B:2169:GLN:C	2.85	0.45
1:B:218:HIS:N	1:B:219:VAL:HA	2.30	0.45
1:B:277:GLY:HA2	1:B:316:PHE:O	2.16	0.45
1:B:4791:TYR:OH	1:B:4816:ILE:O	2.35	0.45
1:C:1244:GLN:O	1:C:1604:SER:C	2.54	0.45
1:C:1237:TRP:CA	1:C:1611:HIS:CB	2.87	0.45
1:C:3934:TYR:CD1	1:C:3935:TRP:CE3	3.04	0.45
1:C:4727:LYS:O	1:C:4730:ASP:CB	2.64	0.45
1:C:4791:TYR:OH	1:C:4816:ILE:O	2.35	0.45
1:C:707:VAL:HA	1:C:725:HIS:CA	2.46	0.45
1:D:132:ALA:C	1:D:133:PHE:CG	2.89	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2775:TRP:HA	1:D:2786:LYS:O	2.16	0.45
1:D:4856:PHE:HE1	1:D:4857:ASN:HD21	1.63	0.45
1:A:1642:PRO:C	1:A:1644:GLU:CB	2.85	0.45
1:A:16:THR:O	1:A:17:ASP:CB	2.64	0.45
1:A:2145:SER:CB	1:A:3648:ARG:CB	2.94	0.45
1:A:2557:ALA:O	1:A:2561:LEU:N	2.45	0.45
1:A:3962:PHE:HE2	1:A:4023:MET:N	2.05	0.45
1:A:4007:SER:C	1:A:4009:GLN:CB	2.85	0.45
1:A:4235:VAL:CA	1:A:4238:CYS:SG	3.00	0.45
1:A:4783:ILE:HD13	1:A:4784:PHE:N	2.31	0.45
1:B:1133:HIS:CB	1:B:1134:LEU:C	2.85	0.45
1:B:1716:ILE:O	1:B:1721:GLU:N	2.35	0.45
1:B:179:TYR:O	1:B:181:HIS:HA	2.15	0.45
1:B:2274:ASP:CB	1:B:2277:ALA:HB2	2.47	0.45
1:B:2274:ASP:CA	1:B:2277:ALA:HB3	2.47	0.45
1:B:379:HIS:CB	1:B:380:GLN:C	2.85	0.45
1:B:645:ARG:CB	1:B:780:VAL:HA	2.47	0.45
1:C:1226:PHE:HD1	1:C:1226:PHE:N	2.14	0.45
1:C:252:VAL:C	1:C:255:HIS:CB	2.85	0.45
1:C:379:HIS:CB	1:C:380:GLN:C	2.84	0.45
1:C:4192:ARG:NH1	1:C:5028:PHE:CE2	2.84	0.45
1:D:2145:SER:CB	1:D:3648:ARG:CB	2.94	0.45
1:D:2168:VAL:CB	1:D:2169:GLN:C	2.85	0.45
1:D:2278:ALA:C	1:D:2280:VAL:H	2.19	0.45
1:D:4727:LYS:O	1:D:4730:ASP:CB	2.64	0.45
1:A:1285:GLU:CB	1:A:1555:LEU:CB	2.94	0.45
1:A:277:GLY:HA2	1:A:316:PHE:O	2.16	0.45
1:A:3699:HIS:C	1:A:3701:LEU:N	2.66	0.45
1:A:4555:LEU:C	1:A:4558:ASN:CB	2.85	0.45
1:A:4644:TRP:HE3	1:A:4645:CYS:CA	2.26	0.45
1:A:4954:MET:C	1:A:4954:MET:CE	2.85	0.45
1:B:3893:GLU:C	1:B:3895:HIS:H	2.19	0.45
1:B:4007:SER:C	1:B:4009:GLN:CB	2.85	0.45
1:B:4102:GLN:O	1:B:4103:PHE:CG	2.70	0.45
1:B:4922:PHE:CG	1:B:4922:PHE:O	2.70	0.45
1:B:791:PHE:O	1:B:1626:TRP:O	2.35	0.45
1:C:1133:HIS:CB	1:C:1134:LEU:C	2.85	0.45
1:C:1276:THR:CB	1:C:1564:PHE:HD1	2.30	0.45
1:C:2168:VAL:CB	1:C:2169:GLN:C	2.85	0.45
1:C:4141:PHE:HZ	1:C:4196:GLU:HA	1.80	0.45
1:C:4231:MET:O	1:C:4235:VAL:HG23	2.16	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4651:THR:HG23	1:C:4652:LEU:N	2.31	0.45
1:C:4954:MET:C	1:C:4954:MET:CE	2.85	0.45
1:D:3986:TRP:H	1:D:3988:ALA:CB	2.29	0.45
1:D:4715:TYR:CE1	1:D:4716:TRP:O	2.70	0.45
1:D:4922:PHE:O	1:D:4922:PHE:CD1	2.70	0.45
1:D:4192:ARG:NH1	1:D:5028:PHE:CE2	2.84	0.45
1:A:3893:GLU:C	1:A:3895:HIS:H	2.19	0.45
1:A:4034:ASN:O	1:A:4153:HIS:CE1	2.69	0.45
1:A:4173:TYR:HD2	1:A:4174:PHE:HD1	1.64	0.45
1:A:4861:LYS:O	1:A:4862:PHE:CD1	2.70	0.45
1:B:2454:ARG:C	1:B:2454:ARG:CD	2.85	0.45
1:B:2531:ARG:O	1:B:2534:ALA:N	2.50	0.45
1:B:3378:GLN:O	1:B:3379:LEU:C	2.55	0.45
1:B:4180:ARG:H	1:B:4181:ILE:HG12	1.79	0.45
1:B:4239:GLU:O	1:B:4240:ASP:C	2.54	0.45
1:B:4716:TRP:CE3	1:B:4716:TRP:O	2.70	0.45
1:B:55:ALA:HA	1:B:58:VAL:O	2.17	0.45
1:C:1287:LEU:HA	1:C:1554:VAL:O	2.17	0.45
1:C:2278:ALA:C	1:C:2280:VAL:H	2.20	0.45
1:C:2464:ASP:N	1:C:2467:VAL:H	2.08	0.45
1:C:254:THR:N	1:C:255:HIS:CB	2.79	0.45
1:C:2777:TYR:N	1:C:2854:GLY:HA2	2.31	0.45
1:C:3047:ALA:O	1:C:3050:VAL:CB	2.64	0.45
1:C:4007:SER:C	1:C:4009:GLN:CB	2.85	0.45
1:C:4008:SER:N	1:C:4009:GLN:CB	2.80	0.45
1:C:4102:GLN:O	1:C:4103:PHE:CG	2.70	0.45
1:C:4239:GLU:O	1:C:4240:ASP:C	2.54	0.45
1:C:4715:TYR:CE1	1:C:4716:TRP:O	2.70	0.45
1:B:4931:ILE:CG2	1:C:4936:ILE:HD11	2.47	0.45
1:C:4968:PHE:HD2	1:C:4978:HIS:HB2	1.71	0.45
1:D:1133:HIS:CB	1:D:1134:LEU:C	2.85	0.45
1:D:180:LEU:HA	1:D:181:HIS:HA	1.60	0.45
1:D:2274:ASP:CA	1:D:2277:ALA:HB3	2.47	0.45
1:D:2592:GLY:N	1:D:2595:LEU:H	1.95	0.45
1:D:3047:ALA:O	1:D:3050:VAL:CB	2.64	0.45
1:D:4102:GLN:O	1:D:4103:PHE:CG	2.70	0.45
1:D:4231:MET:O	1:D:4235:VAL:HG23	2.16	0.45
1:D:4687:TYR:N	1:D:4692:PRO:CD	2.61	0.45
1:D:55:ALA:HA	1:D:58:VAL:O	2.17	0.45
1:D:707:VAL:HA	1:D:725:HIS:CA	2.46	0.45
1:D:927:GLU:O	1:D:930:LYS:N	2.50	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1133:HIS:CB	1:A:1134:LEU:C	2.85	0.45
1:A:1237:TRP:CA	1:A:1611:HIS:CB	2.87	0.45
1:A:211:GLU:C	1:A:213:TYR:CB	2.85	0.45
1:A:2149:VAL:O	1:A:2150:GLU:C	2.51	0.45
1:A:2278:ALA:C	1:A:2280:VAL:H	2.20	0.45
1:A:3934:TYR:CD1	1:A:3935:TRP:CE3	3.04	0.45
1:A:4192:ARG:NH1	1:A:5028:PHE:CE2	2.84	0.45
1:A:4959:PHE:O	1:A:4959:PHE:CD1	2.70	0.45
1:A:927:GLU:O	1:A:930:LYS:N	2.50	0.45
1:B:16:THR:O	1:B:17:ASP:CB	2.64	0.45
1:B:211:GLU:C	1:B:213:TYR:CB	2.85	0.45
1:B:3785:ALA:O	1:B:3787:LYS:N	2.50	0.45
1:B:3934:TYR:CD1	1:B:3935:TRP:CE3	3.04	0.45
1:C:634:GLN:C	1:C:1639:LEU:CB	2.81	0.45
1:C:3986:TRP:H	1:C:3988:ALA:CB	2.29	0.45
1:C:4173:TYR:HD2	1:C:4174:PHE:HD1	1.64	0.45
1:C:483:MET:O	1:C:484:LEU:C	2.54	0.45
1:C:4997:ASN:O	1:C:4998:LYS:CB	2.65	0.45
1:D:71:GLN:C	1:D:106:ALA:O	2.51	0.45
1:D:2274:ASP:CB	1:D:2277:ALA:HB2	2.47	0.45
1:D:4173:TYR:CD2	1:D:4174:PHE:CD1	3.01	0.45
1:D:4239:GLU:O	1:D:4240:ASP:C	2.54	0.45
1:D:4922:PHE:C	1:D:4922:PHE:CD1	2.88	0.45
1:A:2274:ASP:CA	1:A:2277:ALA:HB3	2.47	0.45
1:A:252:VAL:C	1:A:255:HIS:CB	2.85	0.45
1:B:1161:ILE:HA	1:B:1178:ALA:HB3	1.83	0.45
1:B:1285:GLU:CB	1:B:1555:LEU:CB	2.94	0.45
1:B:2145:SER:CB	1:B:3648:ARG:CB	2.94	0.45
1:B:3933:PHE:CE1	1:B:3951:PHE:HE2	2.34	0.45
1:B:4715:TYR:CE1	1:B:4716:TRP:O	2.70	0.45
1:B:4728:HIS:C	1:B:4730:ASP:CB	2.84	0.45
1:C:2274:ASP:CB	1:C:2277:ALA:HB2	2.47	0.45
1:C:2342:ASN:CA	1:C:2343:GLY:C	2.85	0.45
1:C:2509:VAL:O	1:C:2510:TYR:CD2	2.70	0.45
1:C:277:GLY:HA2	1:C:316:PHE:O	2.16	0.45
1:C:4088:ILE:O	1:C:4092:ASP:CA	2.65	0.45
1:C:4642:ALA:CA	1:C:4645:CYS:SG	3.01	0.45
1:C:596:ASN:C	1:C:598:LYS:N	2.62	0.45
1:D:1160:ILE:O	1:D:1162:PHE:HD1	1.99	0.45
1:D:2531:ARG:O	1:D:2534:ALA:N	2.50	0.45
1:D:4007:SER:C	1:D:4009:GLN:CB	2.85	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:4154:VAL:O	1:D:4154:VAL:HG12	2.16	0.45
1:A:1287:LEU:HA	1:A:1554:VAL:O	2.17	0.45
1:A:4180:ARG:N	1:A:4181:ILE:HG12	2.32	0.45
1:A:422:SER:N	1:A:423:GLY:CA	2.71	0.45
1:A:4715:TYR:CE1	1:A:4716:TRP:O	2.70	0.45
1:A:4727:LYS:O	1:A:4730:ASP:CB	2.64	0.45
1:A:4574:ASN:OD1	1:A:4810:ALA:HB1	2.17	0.45
1:A:916:PRO:C	1:A:919:ASN:CB	2.86	0.45
1:B:132:ALA:C	1:B:133:PHE:CG	2.89	0.45
1:B:1638:ALA:HB2	1:B:1649:ASP:HA	1.99	0.45
1:B:245:VAL:C	1:B:247:TYR:N	2.67	0.45
1:B:2509:VAL:O	1:B:2510:TYR:CD2	2.70	0.45
1:B:4008:SER:N	1:B:4009:GLN:CB	2.80	0.45
1:B:4555:LEU:C	1:B:4558:ASN:CB	2.85	0.45
1:B:4696:ASP:HA	1:B:4697:VAL:HA	1.79	0.45
1:B:4800:LEU:HD22	1:B:4801:LEU:HD23	1.99	0.45
1:B:596:ASN:C	1:B:598:LYS:N	2.62	0.45
1:C:1086:GLY:H	1:C:1155:LEU:CB	2.29	0.45
1:C:151:HIS:O	1:C:152:PRO:C	2.46	0.45
1:C:1441:ALA:HA	1:C:1561:VAL:O	2.16	0.45
1:C:789:VAL:N	1:C:1628:VAL:O	2.46	0.45
1:C:1708:ARG:O	1:C:1712:TYR:CD2	2.70	0.45
1:C:4728:HIS:C	1:C:4730:ASP:CB	2.84	0.45
1:C:4922:PHE:O	1:C:4922:PHE:CD1	2.70	0.45
1:C:4922:PHE:O	1:C:4922:PHE:CG	2.70	0.45
1:C:645:ARG:CB	1:C:780:VAL:HA	2.47	0.45
1:C:927:GLU:O	1:C:930:LYS:N	2.50	0.45
1:D:354:GLY:O	1:D:356:TRP:CD1	2.70	0.45
1:D:4715:TYR:O	1:D:4716:TRP:CD2	2.70	0.45
1:D:4843:LEU:HD23	1:D:4844:LEU:N	2.31	0.45
1:D:4959:PHE:O	1:D:4959:PHE:CD1	2.70	0.45
1:D:4996:ILE:HA	1:D:4996:ILE:HD13	1.81	0.45
1:A:791:PHE:O	1:A:1626:TRP:O	2.35	0.45
1:A:3378:GLN:O	1:A:3379:LEU:C	2.55	0.45
1:A:4715:TYR:O	1:A:4716:TRP:CD2	2.70	0.45
1:A:645:ARG:CB	1:A:780:VAL:HA	2.47	0.45
1:B:4843:LEU:HD23	1:B:4844:LEU:N	2.31	0.45
1:B:4852:THR:HG21	1:B:4883:TYR:HA	1.99	0.45
1:B:726:VAL:O	1:B:727:ALA:C	2.56	0.45
1:B:916:PRO:C	1:B:919:ASN:CB	2.86	0.45
1:C:55:ALA:HA	1:C:58:VAL:O	2.17	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:916:PRO:C	1:C:919:ASN:CB	2.86	0.45
1:D:1160:ILE:O	1:D:1162:PHE:CD1	2.70	0.45
1:D:1287:LEU:HA	1:D:1554:VAL:O	2.17	0.45
1:D:1276:THR:CB	1:D:1564:PHE:HD1	2.30	0.45
1:D:1292:SER:CA	1:D:1600:LEU:CB	2.95	0.45
1:D:3933:PHE:CE2	1:D:3951:PHE:CD2	2.91	0.45
1:A:168:ASP:CB	1:A:169:LEU:CA	2.82	0.44
1:A:1803:PRO:O	1:A:1806:ALA:CB	2.60	0.44
1:A:2168:VAL:CB	1:A:2169:GLN:C	2.85	0.44
1:A:2274:ASP:CB	1:A:2277:ALA:HB2	2.47	0.44
1:A:4642:ALA:CA	1:A:4645:CYS:SG	3.01	0.44
1:A:4651:THR:HG23	1:A:4652:LEU:N	2.31	0.44
1:A:4800:LEU:HD22	1:A:4801:LEU:HD23	1.99	0.44
1:B:1287:LEU:HA	1:B:1554:VAL:O	2.17	0.44
1:B:788:LYS:CB	1:B:1629:GLN:HA	2.39	0.44
1:B:4914:VAL:CG2	1:C:4888:TYR:CD2	2.66	0.44
1:B:4922:PHE:O	1:B:4922:PHE:CD1	2.70	0.44
1:C:1160:ILE:O	1:C:1162:PHE:CD1	2.70	0.44
1:C:354:GLY:O	1:C:356:TRP:CD1	2.70	0.44
1:C:3894:GLY:O	1:C:3895:HIS:CD2	2.70	0.44
1:C:4034:ASN:O	1:C:4153:HIS:CE1	2.69	0.44
1:C:4652:LEU:HD13	1:C:4652:LEU:O	2.17	0.44
1:C:4574:ASN:OD1	1:C:4810:ALA:HB1	2.17	0.44
1:C:4885:PHE:CE1	1:C:4889:VAL:HG11	2.48	0.44
1:C:4972:PRO:O	1:C:4973:HIS:CG	2.70	0.44
1:D:277:GLY:HA2	1:D:316:PHE:O	2.16	0.44
1:D:4008:SER:N	1:D:4009:GLN:CB	2.80	0.44
1:D:4651:THR:HG23	1:D:4652:LEU:N	2.31	0.44
1:D:4681:LEU:HD23	1:D:4681:LEU:HA	1.76	0.44
1:D:4834:GLY:HA2	1:D:4837:LEU:CB	2.36	0.44
1:D:483:MET:O	1:D:484:LEU:C	2.54	0.44
1:D:4997:ASN:O	1:D:4998:LYS:CB	2.65	0.44
1:A:4852:THR:HG21	1:A:4883:TYR:HA	1.99	0.44
1:A:707:VAL:HA	1:A:725:HIS:CA	2.46	0.44
1:B:1276:THR:CB	1:B:1564:PHE:HD1	2.30	0.44
1:B:4154:VAL:O	1:B:4154:VAL:HG12	2.16	0.44
1:B:4715:TYR:O	1:B:4716:TRP:CD2	2.70	0.44
1:B:4574:ASN:OD1	1:B:4810:ALA:HB1	2.17	0.44
1:C:1292:SER:CA	1:C:1600:LEU:CB	2.95	0.44
1:C:2531:ARG:O	1:C:2534:ALA:N	2.50	0.44
1:C:3378:GLN:O	1:C:3379:LEU:C	2.55	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4768:LEU:CD1	1:C:4768:LEU:C	2.85	0.44
1:D:1094:ALA:O	1:D:1146:GLY:HA2	2.18	0.44
1:D:3785:ALA:O	1:D:3787:LYS:N	2.50	0.44
1:D:4183:ILE:CG2	1:D:4190:ILE:CG1	2.90	0.44
1:D:4783:ILE:HD13	1:D:4789:PHE:CE2	2.52	0.44
1:D:4791:TYR:OH	1:D:4816:ILE:O	2.35	0.44
1:D:4972:PRO:O	1:D:4973:HIS:CG	2.70	0.44
1:D:645:ARG:CB	1:D:780:VAL:HA	2.47	0.44
1:A:1160:ILE:O	1:A:1162:PHE:CD1	2.70	0.44
1:A:1276:THR:CB	1:A:1564:PHE:HD1	2.30	0.44
1:A:2454:ARG:CD	1:A:2454:ARG:C	2.85	0.44
1:A:4798:MET:CB	1:A:4812:HIS:CB	2.95	0.44
1:A:55:ALA:HA	1:A:58:VAL:O	2.17	0.44
1:A:726:VAL:O	1:A:727:ALA:C	2.56	0.44
1:B:1273:ALA:CB	1:B:1274:HIS:HA	2.18	0.44
1:B:1466:LEU:HA	1:B:1467:SER:HA	1.65	0.44
1:B:354:GLY:O	1:B:356:TRP:CD1	2.70	0.44
1:B:3763:LEU:CD2	1:B:3763:LEU:C	2.85	0.44
1:B:4959:PHE:O	1:B:4959:PHE:CD1	2.70	0.44
1:B:4975:PHE:CE1	1:B:4979:THR:CG2	3.01	0.44
1:B:669:ASP:N	1:B:788:LYS:O	2.49	0.44
1:C:1933:GLU:O	1:C:1934:SER:C	2.52	0.44
1:C:3785:ALA:O	1:C:3787:LYS:N	2.50	0.44
1:C:4644:TRP:HE3	1:C:4645:CYS:CA	2.26	0.44
1:C:4914:VAL:HG13	1:C:4915:VAL:N	2.32	0.44
1:D:2342:ASN:CA	1:D:2343:GLY:C	2.86	0.44
1:D:4088:ILE:O	1:D:4092:ASP:CA	2.65	0.44
1:D:4659:ILE:HG23	1:D:4660:GLY:N	2.32	0.44
1:D:4927:ILE:HD12	1:D:4928:LEU:N	2.32	0.44
1:A:2342:ASN:CA	1:A:2343:GLY:C	2.85	0.44
1:A:2509:VAL:O	1:A:2510:TYR:CD2	2.70	0.44
1:A:4102:GLN:O	1:A:4103:PHE:CG	2.70	0.44
1:A:4925:ILE:H	1:A:4925:ILE:CD1	2.18	0.44
1:B:1160:ILE:O	1:B:1162:PHE:CD1	2.70	0.44
1:B:153:ALA:H	1:B:169:LEU:CB	2.31	0.44
1:B:1708:ARG:O	1:B:1712:TYR:CD2	2.70	0.44
1:B:2342:ASN:CA	1:B:2343:GLY:C	2.85	0.44
1:B:4036:VAL:O	1:B:4153:HIS:O	2.36	0.44
1:B:4088:ILE:O	1:B:4092:ASP:CA	2.65	0.44
1:B:4768:LEU:CD1	1:B:4768:LEU:C	2.85	0.44
1:B:4885:PHE:CE2	1:B:4889:VAL:HG11	2.49	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:4927:ILE:HD12	1:B:4928:LEU:N	2.33	0.44
1:C:21:VAL:O	1:C:203:ASN:O	2.36	0.44
1:C:4208:PRO:CG	1:C:4209:GLN:N	2.81	0.44
1:C:4927:ILE:HD12	1:C:4928:LEU:N	2.32	0.44
1:C:5021:PHE:CD1	1:C:5021:PHE:C	2.91	0.44
1:D:4798:MET:CB	1:D:4812:HIS:CB	2.95	0.44
1:D:4925:ILE:N	1:D:4925:ILE:CD1	2.73	0.44
1:D:4995:LEU:HD12	1:D:5011:TRP:HZ3	1.80	0.44
1:D:669:ASP:N	1:D:788:LYS:O	2.49	0.44
1:A:1466:LEU:HA	1:A:1467:SER:HA	1.65	0.44
1:A:4008:SER:CB	1:A:4009:GLN:HA	2.48	0.44
1:A:4182:GLU:OE2	1:A:4988:TYR:CD1	2.71	0.44
1:A:4652:LEU:HD13	1:A:4652:LEU:O	2.17	0.44
1:A:4659:ILE:HG23	1:A:4660:GLY:N	2.32	0.44
1:A:5018:CYS:C	1:A:5019:TRP:HD1	2.19	0.44
1:B:1638:ALA:HB1	1:B:1649:ASP:N	2.24	0.44
1:B:4105:GLY:N	1:B:4106:PRO:CD	2.81	0.44
1:B:4783:ILE:HD13	1:B:4789:PHE:CE2	2.52	0.44
1:C:4190:ILE:O	1:C:4190:ILE:HG23	2.18	0.44
1:C:4555:LEU:C	1:C:4558:ASN:CB	2.85	0.44
1:C:4716:TRP:CE3	1:C:4716:TRP:O	2.70	0.44
1:C:4959:PHE:CD1	1:C:4959:PHE:O	2.70	0.44
1:D:4180:ARG:N	1:D:4181:ILE:HG12	2.32	0.44
1:D:4574:ASN:OD1	1:D:4810:ALA:HB1	2.17	0.44
1:D:4975:PHE:CE1	1:D:4979:THR:CG2	3.01	0.44
1:D:5021:PHE:C	1:D:5021:PHE:CD1	2.91	0.44
1:A:1094:ALA:O	1:A:1146:GLY:HA2	2.18	0.44
1:A:1276:THR:CB	1:A:1564:PHE:CD1	3.01	0.44
1:A:3877:ASP:HA	1:A:3878:ASP:HA	1.86	0.44
1:A:3891:LEU:C	1:A:3892:CYS:O	2.56	0.44
1:A:4008:SER:N	1:A:4009:GLN:CB	2.80	0.44
1:A:4768:LEU:C	1:A:4768:LEU:CD1	2.85	0.44
1:A:4791:TYR:OH	1:A:4816:ILE:O	2.35	0.44
1:A:4922:PHE:O	1:A:4922:PHE:CD1	2.70	0.44
1:A:669:ASP:N	1:A:788:LYS:O	2.49	0.44
1:B:1093:GLU:O	1:B:1200:GLY:HA3	2.17	0.44
1:B:1276:THR:CB	1:B:1564:PHE:CD1	3.01	0.44
1:B:21:VAL:O	1:B:203:ASN:O	2.36	0.44
1:B:3893:GLU:C	1:B:3895:HIS:N	2.71	0.44
1:B:4861:LYS:O	1:B:4862:PHE:CD1	2.70	0.44
1:C:1160:ILE:O	1:C:1162:PHE:HD1	1.99	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:133:PHE:CD1	1:C:133:PHE:N	2.86	0.44
1:C:3763:LEU:CD2	1:C:3763:LEU:C	2.85	0.44
1:C:3935:TRP:CE3	1:C:3935:TRP:CA	2.97	0.44
1:C:3933:PHE:CE2	1:C:3951:PHE:CD2	2.91	0.44
1:C:4105:GLY:N	1:C:4106:PRO:CD	2.81	0.44
1:C:4715:TYR:O	1:C:4716:TRP:CD2	2.70	0.44
1:C:4783:ILE:HD13	1:C:4784:PHE:N	2.31	0.44
1:D:1276:THR:CB	1:D:1564:PHE:CD1	3.01	0.44
1:D:1638:ALA:HB2	1:D:1649:ASP:HA	1.99	0.44
1:D:1708:ARG:O	1:D:1712:TYR:CD2	2.70	0.44
1:D:4632:LEU:HA	1:D:4633:GLU:CB	2.48	0.44
1:D:4652:LEU:O	1:D:4652:LEU:HD13	2.17	0.44
1:D:4768:LEU:C	1:D:4768:LEU:CD1	2.85	0.44
1:D:4922:PHE:CG	1:D:4922:PHE:O	2.70	0.44
1:D:916:PRO:C	1:D:919:ASN:CB	2.85	0.44
1:A:3658:LYS:CA	1:A:3661:TRP:CD1	2.91	0.44
1:A:3894:GLY:O	1:A:3895:HIS:CD2	2.70	0.44
1:A:4208:PRO:CG	1:A:4209:GLN:N	2.81	0.44
1:A:4701:TRP:CD1	1:A:4701:TRP:O	2.70	0.44
1:A:4985:LEU:N	1:A:4985:LEU:CD1	2.73	0.44
1:B:279:PRO:HA	1:B:315:CYS:CB	2.48	0.44
1:B:4954:MET:C	1:B:4954:MET:CE	2.85	0.44
1:B:73:LEU:H	1:B:106:ALA:N	2.15	0.44
1:C:71:GLN:C	1:C:106:ALA:O	2.51	0.44
1:C:1638:ALA:HB1	1:C:1649:ASP:N	2.24	0.44
1:C:1749:PRO:C	1:C:1751:GLY:H	2.13	0.44
1:C:16:THR:O	1:C:17:ASP:CB	2.64	0.44
1:C:3877:ASP:HA	1:C:3878:ASP:HA	1.86	0.44
1:C:3893:GLU:C	1:C:3895:HIS:N	2.71	0.44
1:C:4632:LEU:HA	1:C:4633:GLU:CB	2.48	0.44
1:C:4659:ILE:HG23	1:C:4660:GLY:N	2.32	0.44
1:C:4975:PHE:CE1	1:C:4979:THR:CG2	3.01	0.44
1:D:2454:ARG:CD	1:D:2454:ARG:C	2.85	0.44
1:D:2509:VAL:O	1:D:2510:TYR:CD2	2.70	0.44
1:A:2278:ALA:C	1:A:2280:VAL:N	2.66	0.44
1:A:3827:GLY:O	1:A:3830:GLN:N	2.51	0.44
1:B:4632:LEU:HA	1:B:4633:GLU:CB	2.48	0.44
1:B:39:ALA:CA	1:B:47:CYS:HA	2.48	0.44
1:B:4928:LEU:C	1:B:4931:ILE:HD13	2.38	0.44
1:B:5018:CYS:C	1:B:5019:TRP:HD1	2.19	0.44
1:B:5021:PHE:CD1	1:B:5021:PHE:C	2.91	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:103:TYR:HA	1:C:104:GLY:HA2	1.62	0.44
1:C:1205:GLY:O	1:C:1209:SER:CB	2.66	0.44
1:C:1638:ALA:HB2	1:C:1649:ASP:HA	1.99	0.44
1:C:153:ALA:H	1:C:169:LEU:CB	2.31	0.44
1:C:279:PRO:HA	1:C:315:CYS:CB	2.48	0.44
1:C:4664:LEU:O	1:C:4667:PRO:CD	2.66	0.44
1:C:4783:ILE:HD13	1:C:4789:PHE:CE2	2.52	0.44
1:D:4003:LEU:HA	1:D:4004:ALA:HA	1.68	0.44
1:D:4105:GLY:N	1:D:4106:PRO:CD	2.81	0.44
1:D:4173:TYR:HD2	1:D:4174:PHE:HD1	1.64	0.44
1:A:3893:GLU:C	1:A:3895:HIS:N	2.71	0.44
1:A:4975:PHE:CE1	1:A:4979:THR:CG2	3.01	0.44
1:A:5021:PHE:CD1	1:A:5021:PHE:C	2.91	0.44
1:B:1160:ILE:O	1:B:1162:PHE:HD1	1.99	0.44
1:B:2446:GLY:HA2	1:B:2447:LYS:HA	1.85	0.44
1:B:2464:ASP:N	1:B:2467:VAL:H	2.08	0.44
1:B:2646:ASN:CB	1:B:2699:ALA:HB1	2.48	0.44
1:B:3087:ILE:O	1:B:3090:ALA:HB3	2.18	0.44
1:B:379:HIS:N	1:B:381:GLU:N	2.66	0.44
1:B:4141:PHE:HZ	1:B:4196:GLU:HA	1.80	0.44
1:B:4652:LEU:O	1:B:4652:LEU:HD13	2.17	0.44
1:B:4729:GLY:N	1:B:4730:ASP:C	2.71	0.44
1:B:4798:MET:CB	1:B:4812:HIS:CB	2.95	0.44
1:B:4924:VAL:HG23	1:B:4925:ILE:H	1.83	0.44
1:B:4942:GLU:CA	1:C:4944:ARG:HH22	2.31	0.44
1:B:4947:GLN:OE1	1:B:4948:GLU:N	2.51	0.44
1:C:4729:GLY:N	1:C:4730:ASP:C	2.71	0.44
1:C:4794:TRP:O	1:C:4797:VAL:HG12	2.18	0.44
1:C:4798:MET:CB	1:C:4812:HIS:CB	2.95	0.44
1:C:546:TRP:CD2	1:C:546:TRP:C	2.91	0.44
1:C:17:ASP:HA	1:C:69:LEU:O	2.18	0.44
1:D:1093:GLU:O	1:D:1200:GLY:HA3	2.18	0.44
1:D:119:SER:N	1:D:137:LEU:HA	2.33	0.44
1:D:2102:VAL:O	1:D:2105:TRP:CD1	2.71	0.44
1:D:3378:GLN:O	1:D:3379:LEU:C	2.55	0.44
1:D:379:HIS:N	1:D:381:GLU:N	2.66	0.44
1:D:3827:GLY:O	1:D:3830:GLN:N	2.51	0.44
1:D:4178:LEU:CD1	1:D:4178:LEU:C	2.84	0.44
1:D:4794:TRP:O	1:D:4797:VAL:HG12	2.18	0.44
1:D:726:VAL:O	1:D:727:ALA:C	2.56	0.44
1:A:1093:GLU:O	1:A:1200:GLY:HA3	2.17	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1272:LEU:N	1:A:1273:ALA:CB	2.73	0.43
1:A:1288:PHE:C	1:A:1553:PHE:CA	2.69	0.43
1:A:133:PHE:CD1	1:A:133:PHE:N	2.86	0.43
1:A:2102:VAL:O	1:A:2105:TRP:CD1	2.71	0.43
1:A:3087:ILE:O	1:A:3090:ALA:HB3	2.18	0.43
1:A:4632:LEU:HA	1:A:4633:GLU:CB	2.48	0.43
1:A:4914:VAL:HG13	1:A:4915:VAL:N	2.32	0.43
1:A:537:CYS:CB	1:A:570:GLU:CB	2.96	0.43
1:B:1292:SER:CA	1:B:1600:LEU:CB	2.95	0.43
1:B:2505:PHE:CE1	1:B:2509:VAL:CB	3.01	0.43
1:B:2509:VAL:O	1:B:2510:TYR:CG	2.71	0.43
1:B:4180:ARG:N	1:B:4181:ILE:HG12	2.32	0.43
1:B:4208:PRO:CG	1:B:4209:GLN:N	2.81	0.43
1:B:4711:PHE:CD1	1:B:4711:PHE:O	2.71	0.43
1:B:483:MET:O	1:B:484:LEU:C	2.54	0.43
1:A:4934:GLY:HA3	1:B:4937:ILE:HD11	1.47	0.43
1:B:4944:ARG:CD	1:B:4944:ARG:C	2.85	0.43
1:B:4972:PRO:O	1:B:4973:HIS:CG	2.70	0.43
1:B:546:TRP:C	1:B:546:TRP:CD2	2.91	0.43
1:C:1083:VAL:O	1:C:1187:GLY:HA3	2.18	0.43
1:C:1212:ARG:CB	1:C:1213:PHE:HA	2.49	0.43
1:C:701:GLY:CA	1:C:1645:ASN:CB	2.96	0.43
1:C:2509:VAL:O	1:C:2510:TYR:CG	2.71	0.43
1:C:3104:GLU:O	1:C:3108:GLU:N	2.36	0.43
1:C:4036:VAL:O	1:C:4153:HIS:O	2.36	0.43
1:C:836:GLY:O	1:C:837:PRO:C	2.53	0.43
1:D:133:PHE:CD1	1:D:133:PHE:N	2.86	0.43
1:D:153:ALA:H	1:D:169:LEU:CB	2.31	0.43
1:D:1815:LEU:O	1:D:1818:ALA:HB3	2.18	0.43
1:D:4008:SER:CB	1:D:4009:GLN:HA	2.48	0.43
1:D:4141:PHE:HZ	1:D:4196:GLU:HA	1.81	0.43
1:D:701:GLY:CA	1:D:1645:ASN:CB	2.96	0.43
1:A:1292:SER:CA	1:A:1600:LEU:CB	2.95	0.43
1:A:153:ALA:H	1:A:169:LEU:CB	2.31	0.43
1:A:3795:SER:CA	1:A:3880:PHE:HE2	2.32	0.43
1:A:4729:GLY:N	1:A:4730:ASP:C	2.71	0.43
1:A:4972:PRO:O	1:A:4973:HIS:CG	2.70	0.43
1:A:839:LEU:O	1:A:1199:VAL:CA	2.61	0.43
1:B:111:HIS:CA	1:B:113:HIS:O	2.66	0.43
1:B:1094:ALA:O	1:B:1146:GLY:HA2	2.18	0.43
1:B:1815:LEU:O	1:B:1818:ALA:HB3	2.18	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3894:GLY:O	1:B:3895:HIS:CD2	2.70	0.43
1:B:4659:ILE:HG23	1:B:4660:GLY:N	2.32	0.43
1:C:1276:THR:CB	1:C:1564:PHE:CD1	3.01	0.43
1:C:726:VAL:O	1:C:727:ALA:C	2.56	0.43
1:D:2464:ASP:N	1:D:2467:VAL:H	2.08	0.43
1:D:2531:ARG:O	1:D:2533:ALA:N	2.51	0.43
1:D:3087:ILE:O	1:D:3090:ALA:HB3	2.18	0.43
1:D:3795:SER:CA	1:D:3880:PHE:HE2	2.32	0.43
1:D:4861:LYS:O	1:D:4862:PHE:CD1	2.70	0.43
1:D:4924:VAL:HG23	1:D:4925:ILE:H	1.82	0.43
1:D:4954:MET:CE	1:D:4954:MET:C	2.85	0.43
1:A:119:SER:N	1:A:137:LEU:HA	2.33	0.43
1:A:2646:ASN:CB	1:A:2699:ALA:HB1	2.48	0.43
1:A:354:GLY:O	1:A:356:TRP:CD1	2.70	0.43
1:A:4927:ILE:HD12	1:A:4928:LEU:N	2.32	0.43
1:A:17:ASP:HA	1:A:69:LEU:O	2.18	0.43
1:B:1205:GLY:O	1:B:1209:SER:CB	2.66	0.43
1:C:1718:ILE:O	1:C:1719:HIS:C	2.56	0.43
1:C:1815:LEU:O	1:C:1818:ALA:HB3	2.18	0.43
1:C:2531:ARG:O	1:C:2533:ALA:N	2.51	0.43
1:C:2646:ASN:CB	1:C:2699:ALA:HB1	2.48	0.43
1:C:4235:VAL:CA	1:C:4238:CYS:SG	3.00	0.43
1:D:4642:ALA:CA	1:D:4645:CYS:SG	3.01	0.43
1:D:4806:ASN:N	1:D:4806:ASN:ND2	2.60	0.43
1:D:4914:VAL:HG13	1:D:4915:VAL:N	2.32	0.43
1:D:4975:PHE:CE1	1:D:4979:THR:HG21	2.54	0.43
1:D:546:TRP:C	1:D:546:TRP:CD2	2.91	0.43
1:D:789:VAL:O	1:D:1627:ALA:HB1	2.18	0.43
1:A:111:HIS:CA	1:A:113:HIS:O	2.66	0.43
1:A:178:ARG:CB	1:A:179:TYR:CB	2.96	0.43
1:A:2531:ARG:O	1:A:2534:ALA:N	2.50	0.43
1:A:3658:LYS:O	1:A:3662:ILE:CB	2.67	0.43
1:A:4058:ILE:O	1:A:4062:PHE:HD1	2.01	0.43
1:A:4088:ILE:O	1:A:4092:ASP:CA	2.65	0.43
1:A:4857:ASN:O	1:A:4858:PHE:HD1	1.87	0.43
1:A:4974:GLY:O	1:A:4975:PHE:C	2.56	0.43
1:B:133:PHE:CD1	1:B:133:PHE:N	2.86	0.43
1:B:634:GLN:C	1:B:1639:LEU:CB	2.81	0.43
1:B:701:GLY:CA	1:B:1645:ASN:CB	2.96	0.43
1:B:178:ARG:CB	1:B:179:TYR:CB	2.96	0.43
1:B:4974:GLY:O	1:B:4975:PHE:C	2.56	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:4968:PHE:CB	1:B:4975:PHE:HA	2.25	0.43
1:C:2454:ARG:C	1:C:2454:ARG:CD	2.85	0.43
1:C:2505:PHE:CE1	1:C:2509:VAL:CB	3.01	0.43
1:C:3896:ASN:CB	1:C:3899:PHE:H	2.32	0.43
1:C:4968:PHE:HD2	1:C:4978:HIS:HB3	1.78	0.43
1:C:537:CYS:CB	1:C:570:GLU:CB	2.96	0.43
1:C:73:LEU:H	1:C:106:ALA:N	2.15	0.43
1:D:72:SER:CB	1:D:106:ALA:O	2.66	0.43
1:D:1718:ILE:O	1:D:1719:HIS:C	2.56	0.43
1:D:1803:PRO:O	1:D:1806:ALA:CA	2.67	0.43
1:D:3668:SER:O	1:D:3671:ASP:N	2.52	0.43
1:D:3896:ASN:CB	1:D:3899:PHE:H	2.32	0.43
1:D:4058:ILE:O	1:D:4062:PHE:HD1	2.01	0.43
1:D:4208:PRO:CG	1:D:4209:GLN:N	2.81	0.43
1:A:1086:GLY:H	1:A:1155:LEU:CB	2.29	0.43
1:A:1638:ALA:HB2	1:A:1649:ASP:HA	1.99	0.43
1:A:2765:LYS:O	1:A:2769:ASP:N	2.41	0.43
1:A:4181:ILE:CG2	1:A:4182:GLU:H	2.20	0.43
1:A:4711:PHE:CD1	1:A:4711:PHE:O	2.71	0.43
1:A:4729:GLY:H	1:A:4730:ASP:C	2.22	0.43
1:A:4794:TRP:O	1:A:4797:VAL:HG12	2.18	0.43
1:A:4982:GLU:CB	1:A:4983:HIS:CA	2.97	0.43
1:A:5018:CYS:SG	1:A:5018:CYS:O	2.76	0.43
1:A:543:ASN:O	1:A:546:TRP:HB3	2.19	0.43
1:B:72:SER:CB	1:B:106:ALA:O	2.66	0.43
1:B:1212:ARG:CB	1:B:1213:PHE:HA	2.49	0.43
1:B:17:ASP:HA	1:B:69:LEU:O	2.18	0.43
1:B:4190:ILE:HG23	1:B:4190:ILE:O	2.18	0.43
1:B:4997:ASN:O	1:B:4998:LYS:CB	2.65	0.43
1:C:1093:GLU:O	1:C:1200:GLY:HA3	2.17	0.43
1:C:1736:VAL:O	1:C:2144:ILE:N	2.51	0.43
1:C:3658:LYS:O	1:C:3662:ILE:CB	2.67	0.43
1:C:4861:LYS:O	1:C:4862:PHE:CD1	2.70	0.43
1:D:279:PRO:HA	1:D:315:CYS:CB	2.48	0.43
1:D:4102:GLN:O	1:D:4103:PHE:CD2	2.72	0.43
1:D:4562:LEU:CB	1:D:4657:CYS:CB	2.96	0.43
1:D:4985:LEU:N	1:D:4985:LEU:CD1	2.73	0.43
1:D:537:CYS:CB	1:D:570:GLU:CB	2.96	0.43
1:D:543:ASN:O	1:D:546:TRP:HB3	2.19	0.43
1:D:17:ASP:HA	1:D:69:LEU:O	2.18	0.43
1:A:4178:LEU:HD12	1:A:4179:GLY:N	2.33	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4659:ILE:HD12	1:A:4659:ILE:HA	1.87	0.43
1:A:4936:ILE:HD11	1:D:4931:ILE:CG2	2.47	0.43
1:A:4222:VAL:CB	1:A:4950:VAL:HG13	2.48	0.43
1:A:535:ALA:C	1:A:537:CYS:N	2.72	0.43
1:A:789:VAL:O	1:A:1627:ALA:HB1	2.18	0.43
1:B:2102:VAL:O	1:B:2105:TRP:CD1	2.71	0.43
1:B:3827:GLY:O	1:B:3830:GLN:N	2.51	0.43
1:B:3795:SER:CA	1:B:3880:PHE:HE2	2.32	0.43
1:B:4847:VAL:CG1	1:B:4848:VAL:N	2.82	0.43
1:B:4914:VAL:HG13	1:B:4915:VAL:N	2.32	0.43
1:C:4102:GLN:O	1:C:4103:PHE:CD2	2.72	0.43
1:C:4178:LEU:HD12	1:C:4179:GLY:N	2.33	0.43
1:C:4180:ARG:N	1:C:4181:ILE:HG12	2.32	0.43
1:C:4984:ASN:O	1:C:4985:LEU:C	2.55	0.43
1:D:1205:GLY:O	1:D:1209:SER:CB	2.66	0.43
1:D:232:THR:CB	1:D:248:GLU:CB	2.96	0.43
1:D:2777:TYR:N	1:D:2854:GLY:HA2	2.31	0.43
1:D:3894:GLY:O	1:D:3895:HIS:CD2	2.70	0.43
1:D:4190:ILE:O	1:D:4190:ILE:HG23	2.18	0.43
1:D:4729:GLY:N	1:D:4730:ASP:C	2.71	0.43
1:D:4847:VAL:CG1	1:D:4848:VAL:N	2.82	0.43
1:D:4855:ALA:HB2	1:D:4916:PHE:CZ	2.54	0.43
1:D:4968:PHE:HD2	1:D:4978:HIS:HB3	1.78	0.43
1:D:4982:GLU:CB	1:D:4983:HIS:CA	2.97	0.43
1:D:5018:CYS:C	1:D:5019:TRP:HD1	2.19	0.43
1:D:839:LEU:O	1:D:1199:VAL:CA	2.61	0.43
1:A:1803:PRO:O	1:A:1806:ALA:CA	2.67	0.43
1:A:3699:HIS:O	1:A:3701:LEU:N	2.51	0.43
1:A:3922:TYR:CD1	1:A:3922:TYR:C	2.92	0.43
1:A:4975:PHE:CE1	1:A:4979:THR:HG21	2.54	0.43
1:B:232:THR:CB	1:B:248:GLU:CB	2.96	0.43
1:B:3658:LYS:CA	1:B:3661:TRP:CD1	2.91	0.43
1:B:3942:VAL:CB	1:B:3943:ILE:CA	2.89	0.43
1:B:4652:LEU:CD1	1:B:4652:LEU:C	2.85	0.43
1:B:4729:GLY:H	1:B:4730:ASP:C	2.22	0.43
1:A:4918:ILE:CD1	1:B:4891:VAL:HG21	2.42	0.43
1:B:5018:CYS:SG	1:B:5018:CYS:O	2.76	0.43
1:B:72:SER:HA	1:B:106:ALA:N	2.33	0.43
1:C:1094:ALA:O	1:C:1146:GLY:HA2	2.18	0.43
1:C:1803:PRO:O	1:C:1806:ALA:CA	2.67	0.43
1:C:2063:LEU:HA	1:C:2063:LEU:HD22	1.77	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4855:ALA:HB2	1:C:4916:PHE:CZ	2.54	0.43
1:C:4928:LEU:C	1:C:4931:ILE:HD13	2.38	0.43
1:D:111:HIS:CA	1:D:113:HIS:O	2.66	0.43
1:D:1212:ARG:CB	1:D:1213:PHE:HA	2.49	0.43
1:D:3658:LYS:O	1:D:3662:ILE:CB	2.67	0.43
1:D:4146:LEU:CD2	1:D:4146:LEU:C	2.85	0.43
1:D:4147:LEU:CD1	1:D:4147:LEU:C	2.85	0.43
1:D:4664:LEU:O	1:D:4667:PRO:CD	2.66	0.43
1:D:4711:PHE:O	1:D:4711:PHE:CD1	2.71	0.43
1:D:4222:VAL:CB	1:D:4950:VAL:HG13	2.49	0.43
1:A:701:GLY:CA	1:A:1645:ASN:CB	2.96	0.43
1:A:4562:LEU:CB	1:A:4657:CYS:CB	2.96	0.43
1:A:4928:LEU:C	1:A:4931:ILE:HD13	2.38	0.43
1:A:512:ALA:O	1:A:515:TRP:CE3	2.70	0.43
1:A:546:TRP:HE3	1:A:547:VAL:CA	2.32	0.43
1:A:989:ALA:O	1:A:993:HIS:CB	2.67	0.43
1:B:789:VAL:O	1:B:1627:ALA:HB1	2.18	0.43
1:B:789:VAL:N	1:B:1628:VAL:O	2.46	0.43
1:B:3668:SER:O	1:B:3671:ASP:N	2.52	0.43
1:B:3896:ASN:CB	1:B:3899:PHE:H	2.32	0.43
1:B:4102:GLN:O	1:B:4103:PHE:CD2	2.72	0.43
1:B:4664:LEU:O	1:B:4667:PRO:CD	2.66	0.43
1:B:4834:GLY:CA	1:B:4837:LEU:H	2.31	0.43
1:B:537:CYS:CB	1:B:570:GLU:CB	2.96	0.43
1:B:989:ALA:O	1:B:993:HIS:CB	2.67	0.43
1:C:111:HIS:CA	1:C:113:HIS:O	2.66	0.43
1:C:2102:VAL:O	1:C:2105:TRP:CD1	2.71	0.43
1:C:232:THR:CB	1:C:248:GLU:CB	2.96	0.43
1:C:3699:HIS:O	1:C:3701:LEU:N	2.51	0.43
1:C:3795:SER:CA	1:C:3880:PHE:HE2	2.32	0.43
1:C:4852:THR:HG21	1:C:4883:TYR:HA	1.99	0.43
1:C:4924:VAL:HG23	1:C:4925:ILE:H	1.82	0.43
1:D:3699:HIS:O	1:D:3701:LEU:N	2.51	0.43
1:D:3893:GLU:C	1:D:3895:HIS:N	2.71	0.43
1:D:4852:THR:HG21	1:D:4883:TYR:HA	1.99	0.43
1:D:5018:CYS:SG	1:D:5018:CYS:O	2.76	0.43
1:A:1205:GLY:O	1:A:1209:SER:CB	2.66	0.43
1:A:1638:ALA:HB1	1:A:1649:ASP:N	2.24	0.43
1:A:1708:ARG:O	1:A:1712:TYR:CD2	2.70	0.43
1:A:2509:VAL:O	1:A:2510:TYR:CG	2.71	0.43
1:A:2531:ARG:O	1:A:2533:ALA:N	2.51	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:279:PRO:HA	1:A:315:CYS:CB	2.48	0.43
1:A:347:PHE:CB	1:A:386:ASP:CB	2.97	0.43
1:A:3896:ASN:CB	1:A:3899:PHE:H	2.32	0.43
1:A:4920:PHE:CZ	1:A:4924:VAL:HG21	2.54	0.43
1:A:4930:ALA:CB	1:B:4936:ILE:HD13	2.42	0.43
1:A:4968:PHE:CB	1:A:4975:PHE:HA	2.25	0.43
1:A:4997:ASN:O	1:A:4998:LYS:CB	2.65	0.43
1:A:546:TRP:CD2	1:A:546:TRP:C	2.91	0.43
1:A:608:VAL:CA	1:A:613:ALA:CB	2.85	0.43
1:B:1454:THR:H	1:B:1457:TYR:CB	2.32	0.43
1:B:2063:LEU:HA	1:B:2063:LEU:HD22	1.77	0.43
1:B:3850:GLN:O	1:B:3853:ALA:HB3	2.19	0.43
1:B:4008:SER:CB	1:B:4009:GLN:HA	2.48	0.43
1:B:4180:ARG:N	1:B:4181:ILE:CG1	2.82	0.43
1:B:4183:ILE:CD1	1:B:4183:ILE:N	2.72	0.43
1:B:451:TYR:C	1:B:453:GLU:H	2.22	0.43
1:C:112:ALA:O	1:C:115:ARG:N	2.52	0.43
1:C:178:ARG:CB	1:C:179:TYR:CB	2.96	0.43
1:C:3105:LYS:O	1:C:3109:ASN:N	2.42	0.43
1:C:3668:SER:O	1:C:3671:ASP:N	2.52	0.43
1:C:3721:LEU:O	1:C:3725:TYR:CD1	2.60	0.43
1:C:4195:PHE:CZ	1:C:4991:PHE:CB	2.65	0.43
1:C:4914:VAL:HG23	1:D:4888:TYR:CE2	2.45	0.43
1:C:789:VAL:O	1:C:1627:ALA:HB1	2.18	0.43
1:D:178:ARG:CB	1:D:179:TYR:CB	2.96	0.43
1:D:21:VAL:O	1:D:203:ASN:O	2.36	0.43
1:D:3835:LEU:C	1:D:3837:GLN:N	2.72	0.43
1:D:451:TYR:C	1:D:453:GLU:H	2.22	0.43
1:D:546:TRP:HE3	1:D:547:VAL:CA	2.32	0.43
1:D:72:SER:HA	1:D:106:ALA:N	2.33	0.43
1:A:1096:THR:CA	1:A:1199:VAL:O	2.67	0.43
1:A:21:VAL:O	1:A:203:ASN:O	2.36	0.43
1:A:3668:SER:O	1:A:3671:ASP:N	2.52	0.43
1:B:112:ALA:O	1:B:115:ARG:N	2.52	0.43
1:B:347:PHE:CB	1:B:386:ASP:CB	2.97	0.43
1:B:3962:PHE:HE2	1:B:4023:MET:N	2.05	0.43
1:B:4855:ALA:HB2	1:B:4916:PHE:CZ	2.54	0.43
1:C:1124:PHE:CD1	1:C:1125:ASN:O	2.71	0.43
1:C:3850:GLN:O	1:C:3853:ALA:HB3	2.19	0.43
1:C:4183:ILE:CG2	1:C:4190:ILE:CG1	2.90	0.43
1:C:4711:PHE:O	1:C:4711:PHE:CD1	2.71	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4800:LEU:HD22	1:C:4801:LEU:HD23	1.99	0.43
1:C:4847:VAL:CG1	1:C:4848:VAL:N	2.82	0.43
1:D:791:PHE:CA	1:D:1626:TRP:O	2.67	0.43
1:D:2505:PHE:CE1	1:D:2509:VAL:CB	3.01	0.43
1:D:4034:ASN:O	1:D:4153:HIS:CE1	2.69	0.43
1:D:4180:ARG:N	1:D:4181:ILE:CG1	2.82	0.43
1:A:4936:ILE:HD13	1:D:4930:ALA:C	2.39	0.43
1:D:5003:HIS:O	1:D:5008:SER:CA	2.67	0.43
1:A:2505:PHE:CE1	1:A:2509:VAL:CB	3.01	0.42
1:A:3966:THR:O	1:A:3970:GLN:CB	2.67	0.42
1:A:4102:GLN:O	1:A:4103:PHE:CD2	2.72	0.42
1:A:4153:HIS:O	1:A:4153:HIS:CD2	2.72	0.42
1:A:4036:VAL:O	1:A:4153:HIS:O	2.36	0.42
1:A:4664:LEU:O	1:A:4667:PRO:CD	2.66	0.42
1:A:4855:ALA:HB2	1:A:4916:PHE:CZ	2.54	0.42
1:A:72:SER:HA	1:A:106:ALA:N	2.33	0.42
1:B:72:SER:CA	1:B:106:ALA:H	2.32	0.42
1:B:3699:HIS:O	1:B:3701:LEU:N	2.51	0.42
1:B:3891:LEU:C	1:B:3892:CYS:O	2.56	0.42
1:B:3935:TRP:CE3	1:B:3935:TRP:CA	2.97	0.42
1:B:4659:ILE:HD12	1:B:4659:ILE:HA	1.87	0.42
1:B:4861:LYS:C	1:B:4862:PHE:HD1	2.23	0.42
1:A:4918:ILE:CA	1:B:4891:VAL:CG1	2.47	0.42
1:B:4982:GLU:CB	1:B:4983:HIS:CA	2.97	0.42
1:C:347:PHE:CB	1:C:386:ASP:CB	2.97	0.42
1:D:2509:VAL:O	1:D:2510:TYR:CG	2.71	0.42
1:D:4850:LEU:HD23	1:D:4851:TYR:N	2.34	0.42
1:D:4920:PHE:CZ	1:D:4924:VAL:HG21	2.54	0.42
1:D:4928:LEU:C	1:D:4931:ILE:HD13	2.38	0.42
1:A:2274:ASP:CA	1:A:2277:ALA:CB	2.97	0.42
1:A:2591:ARG:HA	1:A:2592:GLY:HA3	1.58	0.42
1:A:3758:MET:C	1:A:3760:LYS:N	2.73	0.42
1:A:3933:PHE:CE1	1:A:3951:PHE:HE2	2.34	0.42
1:A:451:TYR:C	1:A:453:GLU:H	2.22	0.42
1:A:4681:LEU:HA	1:A:4681:LEU:HD23	1.76	0.42
1:B:1083:VAL:O	1:B:1187:GLY:HA3	2.18	0.42
1:B:1803:PRO:O	1:B:1806:ALA:CA	2.67	0.42
1:B:2274:ASP:CA	1:B:2277:ALA:CB	2.97	0.42
1:B:2278:ALA:C	1:B:2280:VAL:H	2.20	0.42
1:B:238:SER:O	1:B:241:GLN:N	2.52	0.42
1:B:2538:THR:C	1:B:2540:THR:N	2.73	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2777:TYR:N	1:B:2854:GLY:HA2	2.31	0.42
1:B:4920:PHE:CZ	1:B:4924:VAL:HG21	2.54	0.42
1:B:4975:PHE:CE1	1:B:4979:THR:HG21	2.54	0.42
1:C:119:SER:N	1:C:137:LEU:HA	2.33	0.42
1:C:2556:LEU:O	1:C:2560:PRO:N	2.52	0.42
1:C:4008:SER:CB	1:C:4009:GLN:HA	2.48	0.42
1:C:4974:GLY:O	1:C:4975:PHE:C	2.56	0.42
1:D:238:SER:O	1:D:241:GLN:N	2.52	0.42
1:D:4036:VAL:O	1:D:4153:HIS:O	2.36	0.42
1:D:4178:LEU:HD12	1:D:4179:GLY:N	2.33	0.42
1:D:4718:LYS:O	1:D:4721:LYS:N	2.52	0.42
1:D:4729:GLY:H	1:D:4730:ASP:C	2.22	0.42
1:D:4861:LYS:C	1:D:4862:PHE:HD1	2.23	0.42
1:D:726:VAL:O	1:D:727:ALA:O	2.38	0.42
1:A:1718:ILE:O	1:A:1719:HIS:C	2.56	0.42
1:A:2592:GLY:N	1:A:2595:LEU:H	1.95	0.42
1:A:4834:GLY:CA	1:A:4837:LEU:H	2.31	0.42
1:B:1934:SER:O	1:B:1935:VAL:C	2.58	0.42
1:B:2531:ARG:O	1:B:2533:ALA:N	2.51	0.42
1:B:4141:PHE:CZ	1:B:4196:GLU:HA	2.49	0.42
1:B:4153:HIS:O	1:B:4153:HIS:CD2	2.72	0.42
1:B:4794:TRP:O	1:B:4797:VAL:HG12	2.18	0.42
1:B:490:CYS:O	1:B:491:ILE:C	2.58	0.42
1:B:4935:LEU:CD2	1:B:4935:LEU:N	2.78	0.42
1:C:2766:TRP:O	1:C:2770:LYS:N	2.39	0.42
1:C:3087:ILE:O	1:C:3090:ALA:HB3	2.18	0.42
1:C:3827:GLY:O	1:C:3830:GLN:N	2.51	0.42
1:C:4562:LEU:CB	1:C:4657:CYS:CB	2.96	0.42
1:C:4729:GLY:H	1:C:4730:ASP:C	2.22	0.42
1:C:4975:PHE:CE1	1:C:4979:THR:HG21	2.54	0.42
1:C:5018:CYS:SG	1:C:5018:CYS:O	2.76	0.42
1:D:1096:THR:CA	1:D:1199:VAL:O	2.67	0.42
1:D:1612:PHE:O	1:D:1613:LEU:CB	2.68	0.42
1:D:2274:ASP:CA	1:D:2277:ALA:CB	2.97	0.42
1:D:3942:VAL:CB	1:D:3943:ILE:CA	2.89	0.42
1:D:4153:HIS:CD2	1:D:4153:HIS:O	2.72	0.42
1:D:4554:TYR:O	1:D:4555:LEU:C	2.57	0.42
1:D:4701:TRP:CD1	1:D:4701:TRP:O	2.70	0.42
1:D:4715:TYR:CD1	1:D:4716:TRP:N	2.87	0.42
1:D:4857:ASN:HD22	1:D:4857:ASN:HA	1.64	0.42
1:A:72:SER:CB	1:A:106:ALA:O	2.66	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1612:PHE:O	1:A:1613:LEU:CB	2.68	0.42
1:A:1815:LEU:O	1:A:1818:ALA:HB3	2.18	0.42
1:A:2464:ASP:N	1:A:2467:VAL:H	2.08	0.42
1:A:232:THR:CB	1:A:248:GLU:CB	2.96	0.42
1:A:4141:PHE:HZ	1:A:4196:GLU:HA	1.80	0.42
1:A:4235:VAL:O	1:A:4238:CYS:SG	2.78	0.42
1:A:4652:LEU:O	1:A:4652:LEU:HD22	2.19	0.42
1:A:4847:VAL:CG1	1:A:4848:VAL:N	2.82	0.42
1:A:4861:LYS:C	1:A:4862:PHE:HD1	2.23	0.42
1:B:119:SER:N	1:B:137:LEU:HA	2.33	0.42
1:B:1684:ALA:O	1:B:1687:SER:O	2.38	0.42
1:B:2201:LEU:O	1:B:2205:GLU:CB	2.68	0.42
1:B:3186:LEU:O	1:B:3190:LEU:CB	2.68	0.42
1:B:3658:LYS:O	1:B:3662:ILE:CB	2.67	0.42
1:B:3766:GLN:CA	1:B:3769:ARG:NH2	2.81	0.42
1:B:3922:TYR:C	1:B:3922:TYR:CD1	2.92	0.42
1:B:4181:ILE:CG2	1:B:4182:GLU:N	2.67	0.42
1:B:4682:GLU:HA	1:B:4724:VAL:HG13	2.01	0.42
1:B:4715:TYR:CD1	1:B:4716:TRP:N	2.87	0.42
1:C:3758:MET:C	1:C:3760:LYS:N	2.73	0.42
1:C:3766:GLN:CA	1:C:3769:ARG:NH2	2.81	0.42
1:C:3922:TYR:C	1:C:3922:TYR:CD1	2.92	0.42
1:C:3966:THR:O	1:C:3970:GLN:CB	2.67	0.42
1:C:4153:HIS:O	1:C:4153:HIS:CD2	2.72	0.42
1:C:4850:LEU:HD23	1:C:4851:TYR:N	2.34	0.42
1:C:5003:HIS:O	1:C:5008:SER:CA	2.67	0.42
1:D:2556:LEU:O	1:D:2560:PRO:N	2.52	0.42
1:D:3850:GLN:O	1:D:3853:ALA:HB3	2.19	0.42
1:D:3891:LEU:C	1:D:3892:CYS:O	2.56	0.42
1:D:4034:ASN:C	1:D:4153:HIS:HE1	2.23	0.42
1:A:110:ARG:CB	1:A:117:TYR:HE1	2.33	0.42
1:A:2063:LEU:HD22	1:A:2063:LEU:HA	1.77	0.42
1:A:4182:GLU:CD	1:A:4988:TYR:CD1	2.93	0.42
1:B:4058:ILE:O	1:B:4062:PHE:HD1	2.01	0.42
1:B:4554:TYR:O	1:B:4555:LEU:C	2.57	0.42
1:B:4718:LYS:O	1:B:4721:LYS:N	2.52	0.42
1:B:512:ALA:O	1:B:515:TRP:CE3	2.70	0.42
1:B:535:ALA:O	1:B:536:ASN:C	2.58	0.42
1:C:111:HIS:C	1:C:115:ARG:H	2.23	0.42
1:C:1072:VAL:HA	1:C:1195:GLY:HA2	2.01	0.42
1:C:791:PHE:CA	1:C:1626:TRP:O	2.67	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2446:GLY:HA2	1:C:2447:LYS:HA	1.85	0.42
1:C:3186:LEU:O	1:C:3190:LEU:CB	2.68	0.42
1:C:3668:SER:O	1:C:3669:PHE:C	2.57	0.42
1:C:4034:ASN:C	1:C:4153:HIS:HE1	2.23	0.42
1:C:4652:LEU:HD22	1:C:4652:LEU:O	2.19	0.42
1:C:4982:GLU:CB	1:C:4983:HIS:CA	2.97	0.42
1:C:72:SER:CA	1:C:106:ALA:H	2.32	0.42
1:D:1588:ALA:CB	1:D:1589:PRO:CA	2.84	0.42
1:D:3966:THR:O	1:D:3970:GLN:CB	2.67	0.42
1:D:4007:SER:HA	1:D:4009:GLN:CB	2.50	0.42
1:D:4235:VAL:O	1:D:4238:CYS:SG	2.78	0.42
1:C:4918:ILE:CG1	1:D:4891:VAL:HG22	2.29	0.42
1:A:220:LEU:CB	1:A:392:ARG:N	2.76	0.42
1:A:2538:THR:C	1:A:2540:THR:N	2.73	0.42
1:A:2556:LEU:O	1:A:2560:PRO:N	2.52	0.42
1:A:3850:GLN:O	1:A:3853:ALA:HB3	2.19	0.42
1:A:4190:ILE:O	1:A:4190:ILE:HG23	2.18	0.42
1:A:4554:TYR:O	1:A:4555:LEU:C	2.57	0.42
1:A:4576:ILE:O	1:A:4579:PHE:HB3	2.19	0.42
1:A:4729:GLY:N	1:A:4730:ASP:O	2.51	0.42
1:A:73:LEU:H	1:A:105:HIS:CB	2.32	0.42
1:B:110:ARG:CB	1:B:117:TYR:HE1	2.33	0.42
1:B:2173:GLN:O	1:B:2176:ASN:N	2.53	0.42
1:B:4178:LEU:HD12	1:B:4179:GLY:N	2.33	0.42
1:B:4235:VAL:O	1:B:4238:CYS:SG	2.78	0.42
1:B:4562:LEU:CB	1:B:4657:CYS:CB	2.96	0.42
1:B:4701:TRP:O	1:B:4701:TRP:CD1	2.70	0.42
1:B:483:MET:O	1:B:486:LEU:CB	2.68	0.42
1:B:4930:ALA:C	1:C:4936:ILE:HD13	2.39	0.42
1:C:1684:ALA:O	1:C:1687:SER:O	2.38	0.42
1:C:379:HIS:N	1:C:381:GLU:N	2.66	0.42
1:C:4681:LEU:HA	1:C:4681:LEU:HD23	1.76	0.42
1:C:4715:TYR:CD1	1:C:4716:TRP:N	2.87	0.42
1:C:499:THR:N	1:C:500:ALA:CA	2.72	0.42
1:C:989:ALA:O	1:C:993:HIS:CB	2.67	0.42
1:D:111:HIS:C	1:D:115:ARG:H	2.23	0.42
1:D:112:ALA:O	1:D:115:ARG:N	2.52	0.42
1:D:2646:ASN:CB	1:D:2699:ALA:HB1	2.48	0.42
1:D:347:PHE:CB	1:D:386:ASP:CB	2.97	0.42
1:D:3758:MET:C	1:D:3760:LYS:N	2.73	0.42
1:D:4800:LEU:HD22	1:D:4801:LEU:HD23	1.99	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:4972:PRO:C	1:D:4973:HIS:ND1	2.73	0.42
1:D:535:ALA:O	1:D:536:ASN:C	2.58	0.42
1:A:39:ALA:CB	1:A:47:CYS:CA	2.98	0.42
1:A:4829:SER:CB	1:A:4940:PHE:HE1	2.31	0.42
1:A:4943:LEU:C	1:A:4943:LEU:CD1	2.85	0.42
1:A:72:SER:HA	1:A:106:ALA:CA	2.50	0.42
1:A:73:LEU:H	1:A:106:ALA:N	2.15	0.42
1:B:1133:HIS:N	1:B:1134:LEU:C	2.73	0.42
1:B:129:ASP:O	1:B:130:LYS:CB	2.68	0.42
1:B:121:LEU:O	1:B:133:PHE:CB	2.68	0.42
1:B:1736:VAL:O	1:B:2144:ILE:N	2.51	0.42
1:B:3835:LEU:C	1:B:3837:GLN:N	2.72	0.42
1:B:4972:PRO:C	1:B:4973:HIS:ND1	2.73	0.42
1:B:4996:ILE:HD13	1:B:4996:ILE:HA	1.81	0.42
1:B:72:SER:HA	1:B:106:ALA:CA	2.50	0.42
1:C:1166:GLY:N	1:C:1167:GLU:CB	2.83	0.42
1:C:1638:ALA:HB2	1:C:1649:ASP:CA	2.50	0.42
1:C:2173:GLN:O	1:C:2176:ASN:N	2.53	0.42
1:C:2274:ASP:CA	1:C:2277:ALA:CB	2.97	0.42
1:C:238:SER:O	1:C:241:GLN:N	2.52	0.42
1:C:3933:PHE:CE1	1:C:3951:PHE:HE2	2.34	0.42
1:C:4235:VAL:O	1:C:4238:CYS:SG	2.78	0.42
1:C:451:TYR:C	1:C:453:GLU:H	2.22	0.42
1:C:4834:GLY:CA	1:C:4837:LEU:H	2.31	0.42
1:D:72:SER:CA	1:D:106:ALA:H	2.32	0.42
1:D:1086:GLY:H	1:D:1155:LEU:CB	2.29	0.42
1:D:1684:ALA:O	1:D:1687:SER:O	2.38	0.42
1:D:2149:VAL:O	1:D:2152:THR:N	2.53	0.42
1:D:2591:ARG:HA	1:D:2592:GLY:HA3	1.58	0.42
1:D:3668:SER:O	1:D:3669:PHE:C	2.57	0.42
1:D:3721:LEU:O	1:D:3725:TYR:CD1	2.60	0.42
1:D:3922:TYR:C	1:D:3922:TYR:CD1	2.92	0.42
1:D:4933:GLN:O	1:D:4937:ILE:HG12	2.20	0.42
1:A:1083:VAL:O	1:A:1187:GLY:HA3	2.18	0.42
1:A:2462:PRO:C	1:A:2464:ASP:CB	2.88	0.42
1:A:251:ALA:C	1:A:253:CYS:CB	2.88	0.42
1:A:3894:GLY:O	1:A:3895:HIS:HB2	2.20	0.42
1:A:3945:GLU:C	1:A:3947:GLY:N	2.73	0.42
1:A:4195:PHE:O	1:A:4195:PHE:CD1	2.70	0.42
1:A:4972:PRO:C	1:A:4973:HIS:ND1	2.73	0.42
1:A:5003:HIS:O	1:A:5008:SER:CA	2.67	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1072:VAL:HA	1:B:1195:GLY:HA2	2.01	0.42
1:B:1718:ILE:O	1:B:1719:HIS:C	2.56	0.42
1:B:3105:LYS:O	1:B:3109:ASN:N	2.42	0.42
1:B:4687:TYR:N	1:B:4692:PRO:CD	2.61	0.42
1:B:5003:HIS:O	1:B:5008:SER:CA	2.67	0.42
1:B:4995:LEU:HD13	1:B:5011:TRP:CZ3	2.41	0.42
1:B:543:ASN:O	1:B:546:TRP:HB3	2.19	0.42
1:C:1133:HIS:N	1:C:1134:LEU:C	2.73	0.42
1:C:3934:TYR:CZ	1:C:3998:HIS:CB	2.96	0.42
1:C:4058:ILE:O	1:C:4062:PHE:HD1	2.01	0.42
1:C:669:ASP:N	1:C:788:LYS:O	2.49	0.42
1:D:1133:HIS:N	1:D:1134:LEU:C	2.73	0.42
1:D:4181:ILE:HG12	1:D:4194:TYR:CD1	2.55	0.42
1:D:4738:ALA:CA	1:D:4742:GLY:HA2	2.36	0.42
1:C:4918:ILE:CA	1:D:4891:VAL:CG1	2.46	0.42
1:A:1161:ILE:HA	1:A:1178:ALA:HB1	1.84	0.42
1:A:1212:ARG:CB	1:A:1213:PHE:HA	2.49	0.42
1:A:121:LEU:O	1:A:133:PHE:CB	2.68	0.42
1:A:4007:SER:HA	1:A:4009:GLN:CB	2.50	0.42
1:A:4181:ILE:HG12	1:A:4194:TYR:CD1	2.55	0.42
1:A:4181:ILE:CG2	1:A:4182:GLU:N	2.67	0.42
1:A:4718:LYS:O	1:A:4721:LYS:N	2.52	0.42
1:A:4732:PHE:O	1:A:4733:GLY:O	2.38	0.42
1:A:490:CYS:O	1:A:491:ILE:C	2.58	0.42
1:A:499:THR:N	1:A:500:ALA:CA	2.72	0.42
1:B:220:LEU:CB	1:B:392:ARG:N	2.76	0.42
1:B:2556:LEU:O	1:B:2560:PRO:N	2.52	0.42
1:B:3894:GLY:O	1:B:3895:HIS:HB2	2.20	0.42
1:B:3966:THR:O	1:B:3970:GLN:CB	2.67	0.42
1:B:4576:ILE:O	1:B:4579:PHE:HB3	2.19	0.42
1:C:72:SER:HA	1:C:106:ALA:N	2.33	0.42
1:C:110:ARG:CB	1:C:117:TYR:HE1	2.33	0.42
1:C:1454:THR:H	1:C:1457:TYR:CB	2.32	0.42
1:C:2538:THR:C	1:C:2540:THR:N	2.73	0.42
1:C:261:ARG:O	1:C:262:LEU:CB	2.68	0.42
1:C:4147:LEU:CD1	1:C:4147:LEU:C	2.86	0.42
1:C:4682:GLU:HA	1:C:4724:VAL:HG13	2.01	0.42
1:C:4972:PRO:C	1:C:4973:HIS:ND1	2.72	0.42
1:D:1237:TRP:CA	1:D:1611:HIS:CB	2.87	0.42
1:D:1638:ALA:HB2	1:D:1649:ASP:CA	2.50	0.42
1:D:4652:LEU:HD22	1:D:4652:LEU:O	2.19	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:5023:PRO:O	1:D:5024:ALA:CB	2.68	0.42
1:D:989:ALA:O	1:D:993:HIS:CB	2.67	0.42
1:A:1166:GLY:N	1:A:1167:GLU:CB	2.83	0.42
1:A:3668:SER:O	1:A:3669:PHE:C	2.57	0.42
1:A:4147:LEU:C	1:A:4147:LEU:CD1	2.85	0.42
1:A:72:SER:CA	1:A:106:ALA:H	2.32	0.42
1:B:4034:ASN:O	1:B:4153:HIS:CE1	2.69	0.42
1:B:4034:ASN:C	1:B:4153:HIS:HE1	2.23	0.42
1:B:4181:ILE:HG12	1:B:4194:TYR:CD1	2.55	0.42
1:B:4652:LEU:HD22	1:B:4652:LEU:O	2.19	0.42
1:B:4954:MET:CE	1:B:4955:GLU:N	2.76	0.42
1:C:1612:PHE:O	1:C:1613:LEU:CB	2.68	0.42
1:C:4576:ILE:O	1:C:4579:PHE:HB3	2.19	0.42
1:C:4718:LYS:O	1:C:4721:LYS:N	2.52	0.42
1:C:512:ALA:O	1:C:515:TRP:CE3	2.70	0.42
1:C:543:ASN:O	1:C:546:TRP:HB3	2.19	0.42
1:C:546:TRP:HE3	1:C:547:VAL:CA	2.32	0.42
1:D:1166:GLY:N	1:D:1167:GLU:CB	2.83	0.42
1:D:2191:PHE:CE1	1:D:2192:TYR:CE1	3.08	0.42
1:D:251:ALA:C	1:D:253:CYS:CB	2.88	0.42
1:D:3894:GLY:O	1:D:3895:HIS:HB2	2.20	0.42
1:D:4179:GLY:HA2	1:D:4180:ARG:HB3	2.02	0.42
1:A:4888:TYR:CE2	1:D:4914:VAL:HG23	2.46	0.42
1:A:1133:HIS:N	1:A:1134:LEU:C	2.73	0.41
1:A:112:ALA:O	1:A:115:ARG:N	2.52	0.41
1:A:1124:PHE:CE2	1:A:1162:PHE:CD2	3.04	0.41
1:A:1454:THR:H	1:A:1457:TYR:CB	2.32	0.41
1:A:3835:LEU:C	1:A:3837:GLN:N	2.72	0.41
1:A:4171:LEU:C	1:A:4171:LEU:CD2	2.85	0.41
1:A:4715:TYR:CD1	1:A:4716:TRP:N	2.87	0.41
1:A:483:MET:O	1:A:486:LEU:CB	2.68	0.41
1:B:73:LEU:H	1:B:105:HIS:CB	2.33	0.41
1:B:1166:GLY:N	1:B:1167:GLU:CB	2.83	0.41
1:B:1252:HIS:O	1:B:1254:HIS:CB	2.68	0.41
1:B:4642:ALA:O	1:B:4645:CYS:SG	2.78	0.41
1:B:4732:PHE:O	1:B:4733:GLY:O	2.38	0.41
1:B:726:VAL:O	1:B:727:ALA:O	2.38	0.41
1:C:218:HIS:CB	1:C:219:VAL:HA	2.49	0.41
1:C:2191:PHE:CE1	1:C:2192:TYR:CE1	3.08	0.41
1:C:235:ALA:O	1:C:236:ALA:HB3	2.20	0.41
1:C:2462:PRO:C	1:C:2464:ASP:CB	2.88	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4732:PHE:O	1:C:4733:GLY:O	2.38	0.41
1:C:483:MET:O	1:C:486:LEU:CB	2.68	0.41
1:C:4936:ILE:CG2	1:C:4937:ILE:H	2.33	0.41
1:C:4972:PRO:C	1:C:4973:HIS:CG	2.93	0.41
1:C:72:SER:HA	1:C:106:ALA:CA	2.50	0.41
1:D:1454:THR:H	1:D:1457:TYR:CB	2.32	0.41
1:D:16:THR:O	1:D:17:ASP:CB	2.64	0.41
1:D:235:ALA:O	1:D:236:ALA:HB3	2.20	0.41
1:D:2462:PRO:C	1:D:2464:ASP:CB	2.88	0.41
1:D:3766:GLN:CA	1:D:3769:ARG:NH2	2.82	0.41
1:D:3945:GLU:C	1:D:3947:GLY:N	2.73	0.41
1:D:4124:ASN:O	1:D:4125:PHE:CD1	2.73	0.41
1:D:490:CYS:O	1:D:491:ILE:C	2.58	0.41
1:D:4934:GLY:O	1:D:4938:ASP:N	2.30	0.41
1:D:4984:ASN:O	1:D:4985:LEU:C	2.56	0.41
1:D:73:LEU:H	1:D:106:ALA:N	2.15	0.41
1:A:110:ARG:CB	1:A:117:TYR:CE1	3.03	0.41
1:A:1124:PHE:CD1	1:A:1125:ASN:O	2.71	0.41
1:A:789:VAL:N	1:A:1628:VAL:O	2.46	0.41
1:A:1638:ALA:HB2	1:A:1649:ASP:H	1.83	0.41
1:A:1934:SER:O	1:A:1935:VAL:C	2.58	0.41
1:A:2201:LEU:O	1:A:2205:GLU:CB	2.68	0.41
1:A:4124:ASN:O	1:A:4125:PHE:CD1	2.73	0.41
1:B:2149:VAL:O	1:B:2152:THR:N	2.53	0.41
1:B:218:HIS:CB	1:B:219:VAL:HA	2.49	0.41
1:B:351:VAL:O	1:B:352:ALA:CB	2.68	0.41
1:B:5031:GLN:CG	1:B:5032:TYR:CE1	3.00	0.41
1:B:839:LEU:O	1:B:1199:VAL:CA	2.61	0.41
1:C:1252:HIS:O	1:C:1254:HIS:CB	2.68	0.41
1:C:490:CYS:O	1:C:491:ILE:C	2.58	0.41
1:C:4920:PHE:CZ	1:C:4924:VAL:HG21	2.54	0.41
1:C:4944:ARG:C	1:C:4944:ARG:CD	2.85	0.41
1:C:623:GLU:O	1:C:627:PRO:N	2.53	0.41
1:D:1072:VAL:HA	1:D:1195:GLY:HA2	2.01	0.41
1:D:1688:HIS:HA	1:D:1689:VAL:C	2.40	0.41
1:D:218:HIS:CB	1:D:219:VAL:HA	2.49	0.41
1:D:2201:LEU:O	1:D:2205:GLU:CB	2.68	0.41
1:D:2766:TRP:O	1:D:2770:LYS:N	2.39	0.41
1:D:3933:PHE:CE1	1:D:3951:PHE:HE2	2.34	0.41
1:D:4576:ILE:O	1:D:4579:PHE:HB3	2.19	0.41
1:D:4642:ALA:O	1:D:4645:CYS:SG	2.78	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:4849:TYR:HE1	1:D:4853:VAL:HG21	1.85	0.41
1:A:1072:VAL:HA	1:A:1195:GLY:HA2	2.01	0.41
1:A:129:ASP:O	1:A:130:LYS:CB	2.68	0.41
1:A:1684:ALA:O	1:A:1687:SER:O	2.38	0.41
1:A:235:ALA:O	1:A:236:ALA:HB3	2.20	0.41
1:A:4090:LYS:CB	1:A:4121:GLU:CB	2.98	0.41
1:A:4183:ILE:CG2	1:A:4190:ILE:CG1	2.90	0.41
1:A:4800:LEU:HD23	1:A:4801:LEU:CA	2.50	0.41
1:A:4936:ILE:CG2	1:A:4937:ILE:H	2.33	0.41
1:A:726:VAL:O	1:A:727:ALA:O	2.38	0.41
1:B:2462:PRO:C	1:B:2464:ASP:CB	2.88	0.41
1:B:251:ALA:C	1:B:253:CYS:CB	2.88	0.41
1:B:5023:PRO:O	1:B:5024:ALA:CB	2.68	0.41
1:B:608:VAL:CA	1:B:613:ALA:CB	2.85	0.41
1:C:129:ASP:O	1:C:130:LYS:CB	2.68	0.41
1:C:1688:HIS:HA	1:C:1689:VAL:C	2.40	0.41
1:C:2201:LEU:O	1:C:2205:GLU:CB	2.68	0.41
1:C:251:ALA:C	1:C:253:CYS:CB	2.88	0.41
1:C:3937:TYR:C	1:C:3939:GLY:H	2.21	0.41
1:C:4124:ASN:O	1:C:4125:PHE:CD1	2.73	0.41
1:C:4554:TYR:O	1:C:4555:LEU:C	2.57	0.41
1:D:1074:ILE:HA	1:D:1193:SER:CB	2.50	0.41
1:D:3186:LEU:O	1:D:3190:LEU:CB	2.68	0.41
1:D:4090:LYS:CB	1:D:4121:GLU:CB	2.98	0.41
1:D:4646:LEU:HD23	1:D:4646:LEU:HA	1.88	0.41
1:D:4732:PHE:O	1:D:4733:GLY:O	2.38	0.41
1:D:4834:GLY:CA	1:D:4837:LEU:H	2.31	0.41
1:D:4860:ARG:O	1:D:4861:LYS:CB	2.68	0.41
1:D:4861:LYS:O	1:D:4862:PHE:CB	2.69	0.41
1:A:2191:PHE:CE1	1:A:2192:TYR:CE1	3.08	0.41
1:A:304:ALA:O	1:A:308:HIS:CB	2.69	0.41
1:A:3839:CYS:CB	1:A:3922:TYR:HE2	2.34	0.41
1:A:4180:ARG:N	1:A:4181:ILE:CG1	2.82	0.41
1:A:4849:TYR:HE1	1:A:4853:VAL:HG21	1.85	0.41
1:B:1638:ALA:HB2	1:B:1649:ASP:CA	2.50	0.41
1:B:1688:HIS:HA	1:B:1689:VAL:C	2.40	0.41
1:B:3795:SER:HA	1:B:3880:PHE:CE2	2.54	0.41
1:B:4007:SER:HA	1:B:4009:GLN:CB	2.50	0.41
1:B:4779:LYS:HB2	1:B:4779:LYS:HE3	1.96	0.41
1:B:4857:ASN:HA	1:B:4857:ASN:HD22	1.64	0.41
1:B:4935:LEU:HD22	1:C:4940:PHE:CZ	2.43	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:4972:PRO:C	1:B:4973:HIS:CG	2.94	0.41
1:B:623:GLU:O	1:B:627:PRO:N	2.53	0.41
1:C:73:LEU:H	1:C:105:HIS:CB	2.32	0.41
1:C:2125:HIS:HB2	1:C:3725:TYR:CE1	2.55	0.41
1:C:2777:TYR:H	1:C:2854:GLY:CA	2.32	0.41
1:C:4007:SER:HA	1:C:4009:GLN:CB	2.50	0.41
1:C:4179:GLY:HA2	1:C:4180:ARG:HB3	2.02	0.41
1:C:4180:ARG:N	1:C:4181:ILE:CG1	2.82	0.41
1:C:4738:ALA:CA	1:C:4742:GLY:HA2	2.36	0.41
1:C:4849:TYR:HE1	1:C:4853:VAL:HG21	1.85	0.41
1:C:5023:PRO:O	1:C:5024:ALA:CB	2.68	0.41
1:C:726:VAL:O	1:C:727:ALA:O	2.38	0.41
1:D:110:ARG:CB	1:D:117:TYR:HE1	2.33	0.41
1:D:4972:PRO:C	1:D:4973:HIS:CG	2.94	0.41
1:A:1736:VAL:O	1:A:2144:ILE:N	2.51	0.41
1:A:2173:GLN:O	1:A:2176:ASN:N	2.53	0.41
1:A:218:HIS:CB	1:A:219:VAL:HA	2.49	0.41
1:A:3186:LEU:O	1:A:3190:LEU:CB	2.68	0.41
1:A:3808:GLY:O	1:A:3809:ASN:CB	2.69	0.41
1:A:4034:ASN:C	1:A:4153:HIS:HE1	2.23	0.41
1:A:4644:TRP:CD2	1:A:4644:TRP:C	2.94	0.41
1:A:4642:ALA:O	1:A:4645:CYS:SG	2.78	0.41
1:A:4850:LEU:HD23	1:A:4851:TYR:N	2.34	0.41
1:B:3668:SER:O	1:B:3669:PHE:C	2.57	0.41
1:B:3808:GLY:O	1:B:3809:ASN:CB	2.69	0.41
1:B:4124:ASN:O	1:B:4125:PHE:CD1	2.73	0.41
1:B:4577:LEU:HD11	1:B:4807:PHE:N	2.35	0.41
1:B:4646:LEU:HA	1:B:4646:LEU:HD23	1.88	0.41
1:B:4926:VAL:HG13	1:B:4927:ILE:H	1.84	0.41
1:B:4943:LEU:C	1:B:4943:LEU:CD1	2.85	0.41
1:C:1211:LEU:O	1:C:1214:PHE:CB	2.69	0.41
1:C:245:VAL:C	1:C:247:TYR:N	2.67	0.41
1:C:3795:SER:HA	1:C:3880:PHE:CE2	2.54	0.41
1:C:3945:GLU:C	1:C:3947:GLY:N	2.73	0.41
1:C:4003:LEU:HA	1:C:4004:ALA:HA	1.68	0.41
1:C:4146:LEU:C	1:C:4146:LEU:CD2	2.85	0.41
1:C:4806:ASN:ND2	1:C:4806:ASN:N	2.60	0.41
1:C:5031:GLN:CG	1:C:5032:TYR:CE1	2.99	0.41
1:D:121:LEU:O	1:D:133:PHE:CB	2.68	0.41
1:D:1684:ALA:O	1:D:1687:SER:CB	2.69	0.41
1:D:1934:SER:O	1:D:1935:VAL:C	2.58	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:483:MET:O	1:D:486:LEU:CB	2.68	0.41
1:A:1252:HIS:O	1:A:1254:HIS:CB	2.68	0.41
1:A:15:ARG:O	1:A:16:THR:CB	2.68	0.41
1:A:2149:VAL:O	1:A:2152:THR:N	2.53	0.41
1:A:238:SER:O	1:A:241:GLN:N	2.52	0.41
1:A:2452:ARG:CB	1:A:2453:ILE:CB	2.99	0.41
1:A:4088:ILE:O	1:A:4092:ASP:C	2.59	0.41
1:A:4208:PRO:HG2	1:A:4209:GLN:N	2.34	0.41
1:A:4946:GLN:O	1:A:4949:GLN:HB3	2.20	0.41
1:A:5023:PRO:O	1:A:5024:ALA:CB	2.68	0.41
1:B:1187:GLY:O	1:B:1188:PHE:CB	2.69	0.41
1:B:1096:THR:CA	1:B:1199:VAL:O	2.67	0.41
1:B:261:ARG:O	1:B:262:LEU:CB	2.68	0.41
1:B:345:LEU:O	1:B:346:CYS:CB	2.69	0.41
1:C:15:ARG:O	1:C:16:THR:CB	2.68	0.41
1:C:2149:VAL:O	1:C:2152:THR:N	2.53	0.41
1:C:3808:GLY:O	1:C:3809:ASN:CB	2.69	0.41
1:C:3891:LEU:C	1:C:3892:CYS:O	2.56	0.41
1:C:4577:LEU:HD11	1:C:4807:PHE:N	2.36	0.41
1:C:4642:ALA:O	1:C:4645:CYS:SG	2.78	0.41
1:C:4685:GLY:O	1:C:4689:THR:CB	2.68	0.41
1:D:73:LEU:H	1:D:105:HIS:CB	2.32	0.41
1:D:304:ALA:O	1:D:308:HIS:CB	2.69	0.41
1:D:4577:LEU:HD11	1:D:4807:PHE:N	2.36	0.41
1:D:503:PHE:O	1:D:504:ALA:CB	2.69	0.41
1:D:72:SER:HA	1:D:106:ALA:CA	2.50	0.41
1:A:1688:HIS:HA	1:A:1689:VAL:C	2.40	0.41
1:A:2112:GLN:O	1:A:2113:SER:CB	2.69	0.41
1:A:3766:GLN:CA	1:A:3769:ARG:NH2	2.82	0.41
1:A:4716:TRP:CE3	1:A:4716:TRP:O	2.70	0.41
1:A:4577:LEU:HD11	1:A:4807:PHE:N	2.36	0.41
1:B:235:ALA:O	1:B:236:ALA:HB3	2.20	0.41
1:B:438:ILE:CA	1:B:439:GLU:CB	2.99	0.41
1:B:4800:LEU:HD23	1:B:4801:LEU:CA	2.50	0.41
1:B:4985:LEU:CD1	1:B:4985:LEU:N	2.73	0.41
1:C:110:ARG:CB	1:C:117:TYR:CE1	3.04	0.41
1:C:1213:PHE:CB	1:C:1215:ALA:N	2.84	0.41
1:C:121:LEU:O	1:C:133:PHE:CB	2.68	0.41
1:C:357:LEU:O	1:C:358:THR:CB	2.69	0.41
1:C:3987:ASP:CA	1:C:3988:ALA:HB3	2.51	0.41
1:C:4181:ILE:HG12	1:C:4194:TYR:CD1	2.55	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4948:GLU:OE1	1:C:4949:GLN:N	2.54	0.41
1:C:4954:MET:O	1:C:4954:MET:SD	2.79	0.41
1:D:1187:GLY:O	1:D:1188:PHE:CB	2.69	0.41
1:D:1211:LEU:O	1:D:1214:PHE:CB	2.69	0.41
1:D:129:ASP:O	1:D:130:LYS:CB	2.68	0.41
1:D:261:ARG:O	1:D:262:LEU:CB	2.68	0.41
1:A:1074:ILE:HA	1:A:1193:SER:CB	2.50	0.41
1:A:1213:PHE:CB	1:A:1215:ALA:N	2.84	0.41
1:A:121:LEU:O	1:A:133:PHE:HB2	2.21	0.41
1:A:3834:ALA:O	1:A:3837:GLN:CB	2.68	0.41
1:A:4682:GLU:HA	1:A:4724:VAL:HG13	2.01	0.41
1:A:4954:MET:O	1:A:4954:MET:SD	2.79	0.41
1:A:4972:PRO:C	1:A:4973:HIS:CG	2.93	0.41
1:A:4197:ILE:HD12	1:A:4990:PHE:CD2	2.54	0.41
1:A:789:VAL:O	1:A:1627:ALA:CB	2.69	0.41
1:B:1074:ILE:HA	1:B:1193:SER:CB	2.51	0.41
1:B:1612:PHE:O	1:B:1613:LEU:CB	2.68	0.41
1:B:304:ALA:O	1:B:308:HIS:CB	2.69	0.41
1:B:3823:LYS:O	1:B:3824:LYS:C	2.59	0.41
1:B:3987:ASP:CA	1:B:3988:ALA:HB3	2.51	0.41
1:B:4088:ILE:O	1:B:4092:ASP:C	2.59	0.41
1:B:4090:LYS:CB	1:B:4121:GLU:CB	2.98	0.41
1:B:4935:LEU:O	1:B:4939:ALA:CB	2.69	0.41
1:C:121:LEU:O	1:C:133:PHE:HB2	2.21	0.41
1:C:4171:LEU:HD23	1:C:4172:GLU:N	2.35	0.41
1:C:5017:ARG:HB3	1:C:5019:TRP:CZ2	2.56	0.41
1:C:669:ASP:O	1:C:670:GLU:CB	2.69	0.41
1:D:1123:VAL:O	1:D:1131:ARG:C	2.58	0.41
1:D:351:VAL:O	1:D:352:ALA:CB	2.68	0.41
1:D:4682:GLU:HA	1:D:4724:VAL:HG13	2.01	0.41
1:D:4800:LEU:HD23	1:D:4801:LEU:CA	2.50	0.41
1:D:4948:GLU:OE1	1:D:4949:GLN:N	2.54	0.41
1:D:500:ALA:C	1:D:502:HIS:N	2.74	0.41
1:D:789:VAL:O	1:D:1627:ALA:CB	2.69	0.41
1:A:1638:ALA:HB2	1:A:1649:ASP:CA	2.50	0.41
1:A:1684:ALA:O	1:A:1687:SER:CB	2.69	0.41
1:A:351:VAL:O	1:A:352:ALA:CB	2.68	0.41
1:A:379:HIS:N	1:A:381:GLU:N	2.66	0.41
1:A:4685:GLY:O	1:A:4689:THR:CB	2.68	0.41
1:B:2777:TYR:H	1:B:2854:GLY:CA	2.33	0.41
1:B:2790:MET:C	1:B:2792:ARG:H	2.25	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3933:PHE:HD1	1:B:3934:TYR:N	2.19	0.41
1:B:4823:LEU:C	1:B:4823:LEU:CD1	2.85	0.41
1:B:4850:LEU:HD23	1:B:4851:TYR:N	2.34	0.41
1:B:4856:PHE:HD1	1:B:4857:ASN:ND2	2.19	0.41
1:B:4954:MET:SD	1:B:4954:MET:O	2.79	0.41
1:B:5017:ARG:HB3	1:B:5019:TRP:CZ2	2.56	0.41
1:B:669:ASP:O	1:B:670:GLU:CB	2.69	0.41
1:C:2790:MET:C	1:C:2792:ARG:H	2.25	0.41
1:C:3933:PHE:HD1	1:C:3934:TYR:N	2.19	0.41
1:C:39:ALA:CB	1:C:47:CYS:CA	2.98	0.41
1:D:1679:ASN:O	1:D:1680:ARG:C	2.59	0.41
1:D:3839:CYS:CB	1:D:3922:TYR:HE2	2.34	0.41
1:D:438:ILE:CA	1:D:439:GLU:CB	2.99	0.41
1:D:4685:GLY:O	1:D:4689:THR:CB	2.68	0.41
1:D:4974:GLY:O	1:D:4975:PHE:C	2.56	0.41
1:A:71:GLN:C	1:A:106:ALA:O	2.51	0.41
1:A:1288:PHE:O	1:A:1289:LEU:CB	2.69	0.41
1:A:1439:VAL:O	1:A:1440:PHE:CB	2.68	0.41
1:A:1528:THR:O	1:A:1529:PHE:CB	2.69	0.41
1:A:3934:TYR:CZ	1:A:3998:HIS:CB	2.96	0.41
1:A:4861:LYS:O	1:A:4862:PHE:CB	2.69	0.41
1:A:4995:LEU:CD1	1:A:4995:LEU:C	2.85	0.41
1:B:1708:ARG:CG	1:B:1712:TYR:CE2	2.86	0.41
1:B:2112:GLN:O	1:B:2113:SER:CB	2.69	0.41
1:B:2191:PHE:CE1	1:B:2192:TYR:CE1	3.08	0.41
1:B:2452:ARG:CB	1:B:2453:ILE:CB	2.99	0.41
1:B:2457:LEU:O	1:B:2460:LEU:CB	2.69	0.41
1:B:4685:GLY:O	1:B:4689:THR:CB	2.68	0.41
1:B:4860:ARG:O	1:B:4861:LYS:CB	2.68	0.41
1:C:1530:THR:CB	1:C:1533:GLY:O	2.69	0.41
1:C:2112:GLN:O	1:C:2113:SER:CB	2.69	0.41
1:C:3061:ALA:C	1:C:3064:VAL:N	2.74	0.41
1:C:345:LEU:O	1:C:346:CYS:CB	2.69	0.41
1:C:3792:ALA:O	1:C:3793:MET:C	2.59	0.41
1:C:4644:TRP:CD2	1:C:4644:TRP:C	2.94	0.41
1:C:4685:GLY:CA	1:C:4689:THR:N	2.77	0.41
1:C:4701:TRP:O	1:C:4701:TRP:CD1	2.70	0.41
1:D:1439:VAL:O	1:D:1440:PHE:CB	2.68	0.41
1:D:1530:THR:CB	1:D:1533:GLY:O	2.69	0.41
1:D:1587:PRO:O	1:D:1588:ALA:CB	2.69	0.41
1:D:15:ARG:O	1:D:16:THR:CB	2.68	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1716:ILE:O	1:D:1721:GLU:N	2.35	0.41
1:D:2173:GLN:O	1:D:2176:ASN:N	2.53	0.41
1:D:2452:ARG:CB	1:D:2453:ILE:CB	2.99	0.41
1:D:245:VAL:C	1:D:247:TYR:N	2.67	0.41
1:D:2539:ALA:O	1:D:2543:THR:N	2.52	0.41
1:D:345:LEU:O	1:D:346:CYS:CB	2.69	0.41
1:D:357:LEU:O	1:D:358:THR:CB	2.69	0.41
1:D:3792:ALA:O	1:D:3793:MET:C	2.59	0.41
1:D:39:ALA:CB	1:D:47:CYS:CA	2.98	0.41
1:D:4852:THR:HG21	1:D:4883:TYR:N	2.36	0.41
1:A:4940:PHE:CZ	1:D:4935:LEU:HD22	2.46	0.41
1:D:4954:MET:O	1:D:4954:MET:SD	2.79	0.41
1:D:535:ALA:C	1:D:537:CYS:N	2.72	0.41
1:A:1530:THR:CB	1:A:1533:GLY:O	2.69	0.41
1:A:438:ILE:O	1:A:441:VAL:CB	2.69	0.41
1:A:4982:GLU:CB	1:A:4983:HIS:O	2.69	0.41
1:B:71:GLN:C	1:B:106:ALA:O	2.51	0.41
1:B:1288:PHE:O	1:B:1289:LEU:CB	2.69	0.41
1:B:15:ARG:O	1:B:16:THR:CB	2.68	0.41
1:B:4002:LYS:O	1:B:4005:GLN:CB	2.69	0.41
1:B:4218:ILE:N	1:B:4218:ILE:HD13	2.36	0.41
1:B:4931:ILE:HG12	1:B:4932:ILE:N	2.36	0.41
1:B:5006:GLN:O	1:B:5007:GLU:CB	2.69	0.41
1:B:500:ALA:C	1:B:502:HIS:N	2.74	0.41
1:C:1684:ALA:O	1:C:1687:SER:CB	2.69	0.41
1:C:2188:ASN:O	1:C:2189:LYS:CB	2.69	0.41
1:C:2450:ALA:O	1:C:2453:ILE:CB	2.69	0.41
1:C:351:VAL:O	1:C:352:ALA:CB	2.68	0.41
1:C:4002:LYS:O	1:C:4005:GLN:CB	2.69	0.41
1:C:4218:ILE:N	1:C:4218:ILE:HD13	2.36	0.41
1:C:4860:ARG:O	1:C:4861:LYS:CB	2.68	0.41
1:C:4933:GLN:CA	1:C:4933:GLN:OE1	2.69	0.41
1:C:535:ALA:C	1:C:537:CYS:N	2.72	0.41
1:C:608:VAL:CB	1:C:613:ALA:HB2	2.51	0.41
1:D:1211:LEU:O	1:D:1212:ARG:CB	2.69	0.41
1:D:1213:PHE:CB	1:D:1215:ALA:N	2.84	0.41
1:D:1252:HIS:O	1:D:1254:HIS:CB	2.68	0.41
1:D:1288:PHE:O	1:D:1289:LEU:CB	2.69	0.41
1:D:2112:GLN:O	1:D:2113:SER:CB	2.69	0.41
1:D:2450:ALA:O	1:D:2453:ILE:CB	2.69	0.41
1:D:3823:LYS:O	1:D:3824:LYS:C	2.59	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:4187:SER:O	1:D:4188:ARG:CB	2.69	0.41
1:D:4218:ILE:HD13	1:D:4218:ILE:N	2.36	0.41
1:D:4644:TRP:C	1:D:4644:TRP:CD2	2.94	0.41
1:D:623:GLU:O	1:D:627:PRO:N	2.53	0.41
1:A:1161:ILE:HA	1:A:1178:ALA:HB3	1.83	0.40
1:A:838:HIS:O	1:A:1201:HIS:HA	2.21	0.40
1:A:345:LEU:O	1:A:346:CYS:CB	2.69	0.40
1:A:4179:GLY:HA2	1:A:4180:ARG:HB3	2.02	0.40
1:A:4714:ASN:O	1:A:4715:TYR:CB	2.69	0.40
1:A:4984:ASN:O	1:A:4985:LEU:C	2.55	0.40
1:B:1638:ALA:HB2	1:B:1649:ASP:H	1.83	0.40
1:B:252:VAL:CA	1:B:255:HIS:CB	2.99	0.40
1:B:347:PHE:O	1:B:348:VAL:CB	2.70	0.40
1:B:4171:LEU:HD23	1:B:4172:GLU:N	2.35	0.40
1:B:438:ILE:O	1:B:441:VAL:CB	2.69	0.40
1:B:4714:ASN:O	1:B:4715:TYR:CB	2.69	0.40
1:B:4832:HIS:CG	1:B:4833:ASN:OD1	2.70	0.40
1:B:4861:LYS:O	1:B:4862:PHE:CB	2.68	0.40
1:C:1288:PHE:O	1:C:1289:LEU:CB	2.69	0.40
1:C:278:GLN:O	1:C:279:PRO:CB	2.69	0.40
1:C:3947:GLY:O	1:C:3948:LYS:C	2.59	0.40
1:C:4090:LYS:CB	1:C:4121:GLU:CB	2.98	0.40
1:C:4801:LEU:HA	1:C:4801:LEU:HD22	1.83	0.40
1:C:4829:SER:CB	1:C:4940:PHE:HE1	2.33	0.40
1:C:5006:GLN:O	1:C:5007:GLU:CB	2.69	0.40
1:C:503:PHE:O	1:C:504:ALA:CB	2.69	0.40
1:D:1124:PHE:HE2	1:D:1162:PHE:HD2	1.61	0.40
1:D:2362:GLU:HA	1:D:2363:CYS:CB	2.52	0.40
1:D:2446:GLY:HA2	1:D:2447:LYS:HA	1.86	0.40
1:D:2457:LEU:O	1:D:2460:LEU:CB	2.69	0.40
1:D:3937:TYR:OH	1:D:3943:ILE:C	2.60	0.40
1:D:4088:ILE:O	1:D:4092:ASP:C	2.59	0.40
1:D:4633:GLU:O	1:D:4634:GLU:CB	2.70	0.40
1:D:4716:TRP:CE3	1:D:4716:TRP:O	2.70	0.40
1:D:4933:GLN:HA	1:D:4936:ILE:HG22	2.03	0.40
1:A:1093:GLU:CB	1:A:1201:HIS:O	2.70	0.40
1:A:1679:ASN:O	1:A:1680:ARG:C	2.59	0.40
1:A:1701:ALA:O	1:A:1702:HIS:CB	2.70	0.40
1:A:2519:LEU:HA	1:A:2522:LEU:CB	2.51	0.40
1:A:3792:ALA:O	1:A:3793:MET:C	2.59	0.40
1:A:4565:LEU:HD12	1:A:4565:LEU:HA	1.89	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4800:LEU:CD2	1:A:4800:LEU:C	2.85	0.40
1:A:5017:ARG:HB3	1:A:5019:TRP:CZ2	2.56	0.40
1:A:535:ALA:O	1:A:536:ASN:C	2.58	0.40
1:B:110:ARG:CB	1:B:117:TYR:CE1	3.03	0.40
1:B:838:HIS:O	1:B:1201:HIS:HA	2.21	0.40
1:B:121:LEU:O	1:B:133:PHE:HB2	2.21	0.40
1:B:1528:THR:O	1:B:1529:PHE:CB	2.69	0.40
1:B:2788:HIS:O	1:B:2789:PRO:CB	2.69	0.40
1:B:3937:TYR:C	1:B:3939:GLY:H	2.21	0.40
1:B:4681:LEU:HA	1:B:4681:LEU:HD23	1.76	0.40
1:B:501:ALA:CB	1:B:505:GLU:N	2.80	0.40
1:B:596:ASN:O	1:B:597:HIS:CB	2.69	0.40
1:C:1074:ILE:HA	1:C:1193:SER:CB	2.50	0.40
1:C:1439:VAL:O	1:C:1440:PHE:CB	2.68	0.40
1:C:1701:ALA:O	1:C:1702:HIS:CB	2.70	0.40
1:C:252:VAL:CA	1:C:255:HIS:CB	2.99	0.40
1:C:304:ALA:O	1:C:308:HIS:CB	2.69	0.40
1:C:3785:ALA:C	1:C:3787:LYS:N	2.75	0.40
1:C:3894:GLY:O	1:C:3895:HIS:HB2	2.20	0.40
1:C:438:ILE:CA	1:C:439:GLU:CB	2.99	0.40
1:C:438:ILE:O	1:C:441:VAL:CB	2.69	0.40
1:C:4800:LEU:HD23	1:C:4801:LEU:CA	2.50	0.40
1:C:38:ALA:O	1:C:48:PHE:N	2.55	0.40
1:C:4931:ILE:HG12	1:C:4932:ILE:N	2.36	0.40
1:C:722:TRP:O	1:C:723:THR:CB	2.69	0.40
1:D:110:ARG:CB	1:D:117:TYR:CE1	3.03	0.40
1:D:2538:THR:C	1:D:2540:THR:N	2.73	0.40
1:D:4171:LEU:HD23	1:D:4172:GLU:N	2.35	0.40
1:D:4800:LEU:O	1:D:4803:HIS:HB3	2.22	0.40
1:D:722:TRP:O	1:D:723:THR:CB	2.69	0.40
1:D:826:ILE:O	1:D:827:LYS:CB	2.69	0.40
1:A:1211:LEU:O	1:A:1214:PHE:CB	2.69	0.40
1:A:261:ARG:O	1:A:262:LEU:CB	2.68	0.40
1:A:2788:HIS:O	1:A:2789:PRO:CB	2.69	0.40
1:A:3911:THR:O	1:A:3912:THR:CB	2.69	0.40
1:A:4002:LYS:O	1:A:4005:GLN:CB	2.69	0.40
1:A:4105:GLY:N	1:A:4106:PRO:CD	2.81	0.40
1:A:4119:GLU:O	1:A:4120:ASN:CB	2.70	0.40
1:A:4171:LEU:HD23	1:A:4172:GLU:N	2.35	0.40
1:A:4633:GLU:O	1:A:4634:GLU:CB	2.70	0.40
1:A:607:CYS:O	1:A:608:VAL:O	2.40	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2059:LEU:O	1:B:2062:ARG:N	2.55	0.40
1:B:3289:PRO:O	1:B:3290:GLU:CB	2.70	0.40
1:B:3839:CYS:CB	1:B:3922:TYR:HE2	2.34	0.40
1:B:4667:PRO:HA	1:B:4670:ILE:CG2	2.52	0.40
1:B:4968:PHE:HB2	1:B:4975:PHE:HB2	2.03	0.40
1:B:789:VAL:O	1:B:1627:ALA:CB	2.69	0.40
1:B:826:ILE:O	1:B:827:LYS:CB	2.69	0.40
1:C:1218:GLY:O	1:C:1222:GLY:N	2.42	0.40
1:C:3839:CYS:CB	1:C:3922:TYR:HE2	2.34	0.40
1:C:4667:PRO:HA	1:C:4670:ILE:CG2	2.52	0.40
1:C:4861:LYS:C	1:C:4862:PHE:HD1	2.23	0.40
1:C:4968:PHE:HB2	1:C:4975:PHE:HB2	2.03	0.40
1:C:917:GLU:O	1:C:920:TYR:CB	2.70	0.40
1:D:1124:PHE:CD1	1:D:1125:ASN:O	2.71	0.40
1:D:1093:GLU:CB	1:D:1201:HIS:O	2.70	0.40
1:D:2125:HIS:HB2	1:D:3725:TYR:CE1	2.55	0.40
1:D:278:GLN:O	1:D:279:PRO:CB	2.69	0.40
1:D:291:LEU:O	1:D:292:ALA:CB	2.70	0.40
1:D:3834:ALA:O	1:D:3837:GLN:CB	2.68	0.40
1:D:3987:ASP:CA	1:D:3988:ALA:HB3	2.51	0.40
1:D:4709:PRO:HG2	1:D:4710:SER:H	1.87	0.40
1:D:608:VAL:CB	1:D:613:ALA:HB2	2.51	0.40
1:D:838:HIS:O	1:D:1201:HIS:HA	2.21	0.40
1:A:1023:PRO:O	1:A:1026:LEU:CB	2.70	0.40
1:A:791:PHE:CA	1:A:1626:TRP:O	2.67	0.40
1:A:2059:LEU:O	1:A:2062:ARG:N	2.55	0.40
1:A:2125:HIS:HB2	1:A:3725:TYR:CE1	2.55	0.40
1:A:278:GLN:O	1:A:279:PRO:CB	2.69	0.40
1:A:3892:CYS:O	1:A:3893:GLU:CB	2.69	0.40
1:A:4860:ARG:O	1:A:4861:LYS:CB	2.68	0.40
1:A:5006:GLN:O	1:A:5007:GLU:CB	2.69	0.40
1:A:596:ASN:O	1:A:597:HIS:CB	2.69	0.40
1:B:1211:LEU:O	1:B:1212:ARG:CB	2.69	0.40
1:B:1213:PHE:CB	1:B:1215:ALA:N	2.84	0.40
1:B:1211:LEU:O	1:B:1214:PHE:CB	2.69	0.40
1:B:1530:THR:CB	1:B:1533:GLY:O	2.69	0.40
1:B:1679:ASN:O	1:B:1680:ARG:C	2.59	0.40
1:B:1702:HIS:O	1:B:1703:LEU:CB	2.69	0.40
1:B:3664:THR:O	1:B:3665:GLU:CB	2.70	0.40
1:B:4033:GLY:O	1:B:4034:ASN:CB	2.70	0.40
1:B:4208:PRO:HG2	1:B:4209:GLN:N	2.34	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:4643:LEU:CD1	1:B:4643:LEU:C	2.85	0.40
1:B:4768:LEU:CD1	1:B:4770:SER:N	2.73	0.40
1:B:4933:GLN:OE1	1:B:4933:GLN:CA	2.69	0.40
1:B:4982:GLU:CB	1:B:4983:HIS:O	2.69	0.40
1:C:1187:GLY:O	1:C:1188:PHE:CB	2.69	0.40
1:C:1454:THR:O	1:C:1457:TYR:CB	2.70	0.40
1:C:2059:LEU:O	1:C:2062:ARG:N	2.55	0.40
1:C:2200:ALA:HB3	1:C:2206:THR:CB	2.52	0.40
1:C:2788:HIS:O	1:C:2789:PRO:CB	2.69	0.40
1:C:3894:GLY:O	1:C:3895:HIS:CB	2.69	0.40
1:C:3937:TYR:OH	1:C:3943:ILE:C	2.60	0.40
1:C:4033:GLY:O	1:C:4034:ASN:CB	2.70	0.40
1:C:4187:SER:O	1:C:4188:ARG:CB	2.69	0.40
1:C:4729:GLY:N	1:C:4730:ASP:O	2.51	0.40
1:C:4996:ILE:HA	1:C:4996:ILE:HD13	1.81	0.40
1:C:540:PHE:O	1:C:544:LEU:CB	2.69	0.40
1:C:918:ARG:H	1:C:919:ASN:CB	2.35	0.40
1:D:1094:ALA:HB1	1:D:1096:THR:O	2.22	0.40
1:D:1454:THR:O	1:D:1457:TYR:CB	2.70	0.40
1:D:1675:ALA:O	1:D:1676:LEU:CB	2.70	0.40
1:D:2200:ALA:HB3	1:D:2206:THR:CB	2.52	0.40
1:D:2777:TYR:H	1:D:2854:GLY:CA	2.33	0.40
1:D:2788:HIS:O	1:D:2789:PRO:CB	2.69	0.40
1:D:3911:THR:O	1:D:3912:THR:CB	2.69	0.40
1:D:4651:THR:HG1	1:D:4799:SER:HB3	1.87	0.40
1:D:4730:ASP:O	1:D:4731:ILE:CB	2.70	0.40
1:D:5017:ARG:HB3	1:D:5019:TRP:CZ2	2.56	0.40
1:A:2364:PHE:O	1:A:2366:PRO:N	2.55	0.40
1:A:2777:TYR:H	1:A:2854:GLY:CA	2.32	0.40
1:A:3721:LEU:O	1:A:3725:TYR:CD1	2.60	0.40
1:A:4003:LEU:HA	1:A:4004:ALA:HA	1.68	0.40
1:A:4730:ASP:O	1:A:4731:ILE:CB	2.70	0.40
1:A:4848:VAL:CG1	1:A:4849:TYR:N	2.85	0.40
1:A:4927:ILE:C	1:A:4927:ILE:CD1	2.85	0.40
1:A:503:PHE:O	1:A:504:ALA:CB	2.69	0.40
1:B:1675:ALA:O	1:B:1676:LEU:CB	2.70	0.40
1:B:1821:ASP:C	1:B:1823:GLY:N	2.73	0.40
1:B:357:LEU:O	1:B:358:THR:CB	2.69	0.40
1:B:380:GLN:O	1:B:381:GLU:CB	2.69	0.40
1:B:3912:THR:O	1:B:3913:ILE:CB	2.70	0.40
1:B:4179:GLY:HA2	1:B:4180:ARG:HB3	2.02	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:4644:TRP:CD2	1:B:4644:TRP:C	2.94	0.40
1:B:4659:ILE:CG2	1:B:4660:GLY:N	2.85	0.40
1:B:540:PHE:O	1:B:544:LEU:CB	2.69	0.40
1:B:608:VAL:CB	1:B:613:ALA:HB2	2.51	0.40
1:C:1644:GLU:O	1:C:1645:ASN:CB	2.70	0.40
1:C:2452:ARG:CB	1:C:2453:ILE:CB	2.99	0.40
1:C:2457:LEU:O	1:C:2460:LEU:CB	2.69	0.40
1:C:2756:ASN:O	1:C:2760:GLU:CB	2.69	0.40
1:C:455:PRO:O	1:C:456:SER:CB	2.70	0.40
1:D:1023:PRO:O	1:D:1026:LEU:CB	2.70	0.40
1:D:1701:ALA:O	1:D:1702:HIS:HB2	2.22	0.40
1:D:2364:PHE:O	1:D:2366:PRO:N	2.55	0.40
1:D:2462:PRO:O	1:D:2464:ASP:CB	2.70	0.40
1:D:246:TYR:O	1:D:247:TYR:CB	2.70	0.40
1:D:2756:ASN:O	1:D:2760:GLU:CB	2.69	0.40
1:D:3808:GLY:O	1:D:3809:ASN:CB	2.69	0.40
1:D:4033:GLY:O	1:D:4034:ASN:CB	2.70	0.40
1:D:4716:TRP:O	1:D:4717:ASP:CB	2.70	0.40
1:D:5006:GLN:O	1:D:5007:GLU:CB	2.69	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 PDB entries followed by that with respect to all EM entries.

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	3311/5037 (66%)	2865 (86%)	203 (6%)	243 (7%)	1	19
1	B	3311/5037 (66%)	2865 (86%)	204 (6%)	242 (7%)	1	19
1	C	3311/5037 (66%)	2865 (86%)	203 (6%)	243 (7%)	1	19
1	D	3311/5037 (66%)	2864 (86%)	205 (6%)	242 (7%)	1	19
All	All	13244/20148 (66%)	11459 (86%)	815 (6%)	970 (7%)	2	19

All (970) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	16	THR
1	A	25	SER
1	A	26	ALA
1	A	44	ASN
1	A	67	PHE
1	A	73	LEU
1	A	105	HIS
1	A	130	LYS
1	A	149	THR
1	A	151	HIS
1	A	152	PRO
1	A	163	VAL
1	A	170	ILE
1	A	174	VAL
1	A	229	GLU
1	A	238	SER
1	A	246	TYR
1	A	253	CYS
1	A	262	LEU
1	A	272	SER
1	A	279	PRO
1	A	286	THR
1	A	300	VAL
1	A	344	SER
1	A	346	CYS
1	A	348	VAL
1	A	358	THR
1	A	381	GLU
1	A	385	ASP
1	A	391	THR
1	A	392	ARG
1	A	439	GLU
1	A	461	HIS
1	A	487	VAL
1	A	498	THR
1	A	505	GLU
1	A	509	GLU
1	A	608	VAL
1	A	631	LEU
1	A	632	LEU
1	A	647	ASN
1	A	670	GLU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	A	680	THR
1	A	682	LEU
1	A	723	THR
1	A	770	ALA
1	A	774	ASP
1	A	785	ALA
1	A	828	GLU
1	A	832	GLU
1	A	839	LEU
1	A	1028	ASP
1	A	1082	THR
1	A	1113	VAL
1	A	1138	PRO
1	A	1158	ASN
1	A	1188	PHE
1	A	1204	LEU
1	A	1249	PRO
1	A	1250	PRO
1	A	1252	HIS
1	A	1253	PRO
1	A	1286	MET
1	A	1289	LEU
1	A	1290	ARG
1	A	1439	VAL
1	A	1440	PHE
1	A	1529	PHE
1	A	1535	GLU
1	A	1537	ASN
1	A	1545	ASN
1	A	1547	LYS
1	A	1551	ALA
1	A	1552	VAL
1	A	1556	PRO
1	A	1557	THR
1	A	1578	ALA
1	A	1609	PRO
1	A	1613	LEU
1	A	1624	LEU
1	A	1632	ASP
1	A	1633	PRO
1	A	1688	HIS
1	A	1722	SER

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	A	1745	ILE
1	A	1804	LEU
1	A	1828	ASP
1	A	1867	GLU
1	A	1868	PRO
1	A	2131	LEU
1	A	2146	PRO
1	A	2168	VAL
1	A	2241	ARG
1	A	2279	SER
1	A	2341	VAL
1	A	2453	ILE
1	A	2462	PRO
1	A	2464	ASP
1	A	2587	TYR
1	A	2740	VAL
1	A	2788	HIS
1	A	2789	PRO
1	A	3071	LEU
1	A	3292	PRO
1	A	3293	PRO
1	A	3294	PRO
1	A	3665	GLU
1	A	3667	HIS
1	A	3718	GLU
1	A	3824	LYS
1	A	3826	VAL
1	A	3905	THR
1	A	3911	THR
1	A	3912	THR
1	A	3913	ILE
1	A	3915	ILE
1	A	3942	VAL
1	A	3983	SER
1	A	3987	ASP
1	A	4120	ASN
1	A	4181	ILE
1	A	4182	GLU
1	A	4207	MET
1	A	4633	GLU
1	A	4690	GLU
1	A	4691	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	A	4697	VAL
1	A	4706	LEU
1	A	4715	TYR
1	A	4717	ASP
1	A	4718	LYS
1	A	4731	ILE
1	A	4740	LEU
1	A	4804	TYR
1	A	4836	GLN
1	A	4961	CYS
1	A	4967	TYR
1	A	4998	LYS
1	A	5008	SER
1	A	5024	ALA
1	B	16	THR
1	B	25	SER
1	B	26	ALA
1	B	44	ASN
1	B	67	PHE
1	B	73	LEU
1	B	105	HIS
1	B	130	LYS
1	B	149	THR
1	B	151	HIS
1	B	152	PRO
1	B	163	VAL
1	B	170	ILE
1	B	174	VAL
1	B	229	GLU
1	B	238	SER
1	B	246	TYR
1	B	253	CYS
1	B	262	LEU
1	B	272	SER
1	B	279	PRO
1	B	286	THR
1	B	300	VAL
1	B	344	SER
1	B	346	CYS
1	B	348	VAL
1	B	358	THR
1	B	381	GLU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	B	385	ASP
1	B	391	THR
1	B	392	ARG
1	B	439	GLU
1	B	461	HIS
1	B	487	VAL
1	B	498	THR
1	B	505	GLU
1	B	509	GLU
1	B	608	VAL
1	B	631	LEU
1	B	632	LEU
1	B	647	ASN
1	B	670	GLU
1	B	680	THR
1	B	682	LEU
1	B	723	THR
1	B	770	ALA
1	B	774	ASP
1	B	785	ALA
1	B	828	GLU
1	B	832	GLU
1	B	839	LEU
1	B	1028	ASP
1	B	1082	THR
1	B	1113	VAL
1	B	1138	PRO
1	B	1158	ASN
1	B	1188	PHE
1	B	1204	LEU
1	B	1249	PRO
1	B	1250	PRO
1	B	1252	HIS
1	B	1253	PRO
1	B	1286	MET
1	B	1289	LEU
1	B	1290	ARG
1	B	1439	VAL
1	B	1440	PHE
1	B	1529	PHE
1	B	1535	GLU
1	B	1537	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	B	1545	ASN
1	B	1547	LYS
1	B	1551	ALA
1	B	1552	VAL
1	B	1556	PRO
1	B	1557	THR
1	B	1578	ALA
1	B	1609	PRO
1	B	1613	LEU
1	B	1624	LEU
1	B	1632	ASP
1	B	1633	PRO
1	B	1688	HIS
1	B	1722	SER
1	B	1745	ILE
1	B	1804	LEU
1	B	1828	ASP
1	B	1867	GLU
1	B	1868	PRO
1	B	2131	LEU
1	B	2146	PRO
1	B	2168	VAL
1	B	2241	ARG
1	B	2279	SER
1	B	2341	VAL
1	B	2453	ILE
1	B	2462	PRO
1	B	2464	ASP
1	B	2587	TYR
1	B	2740	VAL
1	B	2788	HIS
1	B	2789	PRO
1	B	3071	LEU
1	B	3292	PRO
1	B	3293	PRO
1	B	3294	PRO
1	B	3665	GLU
1	B	3667	HIS
1	B	3718	GLU
1	B	3824	LYS
1	B	3826	VAL
1	B	3905	THR

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	B	3911	THR
1	B	3912	THR
1	B	3913	ILE
1	B	3915	ILE
1	B	3942	VAL
1	B	3983	SER
1	B	3987	ASP
1	B	4120	ASN
1	B	4181	ILE
1	B	4182	GLU
1	B	4207	MET
1	B	4633	GLU
1	B	4690	GLU
1	B	4691	GLN
1	B	4697	VAL
1	B	4706	LEU
1	B	4715	TYR
1	B	4717	ASP
1	B	4718	LYS
1	B	4731	ILE
1	B	4740	LEU
1	B	4804	TYR
1	B	4836	GLN
1	B	4961	CYS
1	B	4967	TYR
1	B	4998	LYS
1	B	5008	SER
1	B	5024	ALA
1	C	16	THR
1	C	25	SER
1	C	26	ALA
1	C	44	ASN
1	C	67	PHE
1	C	73	LEU
1	C	105	HIS
1	C	130	LYS
1	C	149	THR
1	C	151	HIS
1	C	152	PRO
1	C	163	VAL
1	C	170	ILE
1	C	174	VAL

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	C	229	GLU
1	C	238	SER
1	C	246	TYR
1	C	253	CYS
1	C	262	LEU
1	C	272	SER
1	C	279	PRO
1	C	286	THR
1	C	300	VAL
1	C	344	SER
1	C	346	CYS
1	C	348	VAL
1	C	358	THR
1	C	381	GLU
1	C	385	ASP
1	C	391	THR
1	C	392	ARG
1	C	439	GLU
1	C	461	HIS
1	C	487	VAL
1	C	498	THR
1	C	505	GLU
1	C	509	GLU
1	C	608	VAL
1	C	631	LEU
1	C	632	LEU
1	C	647	ASN
1	C	670	GLU
1	C	680	THR
1	C	682	LEU
1	C	723	THR
1	C	770	ALA
1	C	774	ASP
1	C	785	ALA
1	C	828	GLU
1	C	832	GLU
1	C	839	LEU
1	C	1028	ASP
1	C	1082	THR
1	C	1113	VAL
1	C	1138	PRO
1	C	1158	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	C	1188	PHE
1	C	1204	LEU
1	C	1249	PRO
1	C	1250	PRO
1	C	1252	HIS
1	C	1253	PRO
1	C	1286	MET
1	C	1289	LEU
1	C	1290	ARG
1	C	1439	VAL
1	C	1440	PHE
1	C	1529	PHE
1	C	1535	GLU
1	C	1537	ASN
1	C	1545	ASN
1	C	1547	LYS
1	C	1551	ALA
1	C	1552	VAL
1	C	1556	PRO
1	C	1557	THR
1	C	1578	ALA
1	C	1609	PRO
1	C	1613	LEU
1	C	1624	LEU
1	C	1632	ASP
1	C	1633	PRO
1	C	1688	HIS
1	C	1722	SER
1	C	1745	ILE
1	C	1804	LEU
1	C	1828	ASP
1	C	1867	GLU
1	C	1868	PRO
1	C	2131	LEU
1	C	2146	PRO
1	C	2168	VAL
1	C	2241	ARG
1	C	2279	SER
1	C	2341	VAL
1	C	2453	ILE
1	C	2462	PRO
1	C	2464	ASP

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	C	2587	TYR
1	C	2740	VAL
1	C	2788	HIS
1	C	2789	PRO
1	C	3071	LEU
1	C	3292	PRO
1	C	3293	PRO
1	C	3294	PRO
1	C	3665	GLU
1	C	3667	HIS
1	C	3718	GLU
1	C	3824	LYS
1	C	3826	VAL
1	C	3905	THR
1	C	3911	THR
1	C	3912	THR
1	C	3913	ILE
1	C	3915	ILE
1	C	3942	VAL
1	C	3983	SER
1	C	3987	ASP
1	C	4120	ASN
1	C	4181	ILE
1	C	4182	GLU
1	C	4207	MET
1	C	4633	GLU
1	C	4690	GLU
1	C	4691	GLN
1	C	4697	VAL
1	C	4706	LEU
1	C	4715	TYR
1	C	4717	ASP
1	C	4718	LYS
1	C	4731	ILE
1	C	4740	LEU
1	C	4804	TYR
1	C	4836	GLN
1	C	4961	CYS
1	C	4967	TYR
1	C	4998	LYS
1	C	5008	SER
1	C	5024	ALA

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	D	16	THR
1	D	25	SER
1	D	26	ALA
1	D	44	ASN
1	D	67	PHE
1	D	73	LEU
1	D	105	HIS
1	D	130	LYS
1	D	149	THR
1	D	151	HIS
1	D	152	PRO
1	D	163	VAL
1	D	170	ILE
1	D	174	VAL
1	D	229	GLU
1	D	238	SER
1	D	246	TYR
1	D	253	CYS
1	D	262	LEU
1	D	272	SER
1	D	279	PRO
1	D	286	THR
1	D	300	VAL
1	D	344	SER
1	D	346	CYS
1	D	348	VAL
1	D	358	THR
1	D	381	GLU
1	D	385	ASP
1	D	391	THR
1	D	392	ARG
1	D	439	GLU
1	D	461	HIS
1	D	487	VAL
1	D	498	THR
1	D	505	GLU
1	D	509	GLU
1	D	608	VAL
1	D	631	LEU
1	D	632	LEU
1	D	647	ASN
1	D	670	GLU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	D	680	THR
1	D	682	LEU
1	D	723	THR
1	D	770	ALA
1	D	774	ASP
1	D	785	ALA
1	D	828	GLU
1	D	832	GLU
1	D	839	LEU
1	D	1028	ASP
1	D	1082	THR
1	D	1113	VAL
1	D	1138	PRO
1	D	1158	ASN
1	D	1188	PHE
1	D	1204	LEU
1	D	1249	PRO
1	D	1250	PRO
1	D	1252	HIS
1	D	1253	PRO
1	D	1286	MET
1	D	1289	LEU
1	D	1290	ARG
1	D	1439	VAL
1	D	1440	PHE
1	D	1529	PHE
1	D	1535	GLU
1	D	1537	ASN
1	D	1545	ASN
1	D	1547	LYS
1	D	1551	ALA
1	D	1552	VAL
1	D	1556	PRO
1	D	1557	THR
1	D	1578	ALA
1	D	1609	PRO
1	D	1613	LEU
1	D	1624	LEU
1	D	1632	ASP
1	D	1633	PRO
1	D	1688	HIS
1	D	1722	SER

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	D	1745	ILE
1	D	1804	LEU
1	D	1828	ASP
1	D	1867	GLU
1	D	1868	PRO
1	D	2131	LEU
1	D	2146	PRO
1	D	2168	VAL
1	D	2241	ARG
1	D	2279	SER
1	D	2341	VAL
1	D	2453	ILE
1	D	2462	PRO
1	D	2464	ASP
1	D	2587	TYR
1	D	2740	VAL
1	D	2788	HIS
1	D	2789	PRO
1	D	3071	LEU
1	D	3292	PRO
1	D	3293	PRO
1	D	3294	PRO
1	D	3665	GLU
1	D	3667	HIS
1	D	3718	GLU
1	D	3824	LYS
1	D	3826	VAL
1	D	3905	THR
1	D	3911	THR
1	D	3912	THR
1	D	3913	ILE
1	D	3915	ILE
1	D	3942	VAL
1	D	3983	SER
1	D	3987	ASP
1	D	4120	ASN
1	D	4181	ILE
1	D	4182	GLU
1	D	4207	MET
1	D	4633	GLU
1	D	4690	GLU
1	D	4691	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	D	4697	VAL
1	D	4706	LEU
1	D	4715	TYR
1	D	4717	ASP
1	D	4718	LYS
1	D	4731	ILE
1	D	4740	LEU
1	D	4804	TYR
1	D	4836	GLN
1	D	4961	CYS
1	D	4967	TYR
1	D	4998	LYS
1	D	5008	SER
1	D	5024	ALA
1	A	68	THR
1	A	304	ALA
1	A	313	SER
1	A	352	ALA
1	A	386	ASP
1	A	484	LEU
1	A	510	GLU
1	A	702	TRP
1	A	703	GLY
1	A	726	VAL
1	A	727	ALA
1	A	733	PRO
1	A	827	LYS
1	A	1436	SER
1	A	1588	ALA
1	A	1689	VAL
1	A	2109	ASP
1	A	2173	GLN
1	A	2191	PHE
1	A	2275	VAL
1	A	2786	LYS
1	A	2852	ARG
1	A	3809	ASN
1	A	3988	ALA
1	A	4089	SER
1	A	4555	LEU
1	A	4686	LEU
1	A	4698	LYS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	A	4866	SER
1	A	4984	ASN
1	A	5018	CYS
1	B	68	THR
1	B	304	ALA
1	B	313	SER
1	B	352	ALA
1	B	386	ASP
1	B	484	LEU
1	B	510	GLU
1	B	702	TRP
1	B	703	GLY
1	B	726	VAL
1	B	727	ALA
1	B	733	PRO
1	B	827	LYS
1	B	1436	SER
1	B	1588	ALA
1	B	1689	VAL
1	B	2109	ASP
1	B	2173	GLN
1	B	2191	PHE
1	B	2275	VAL
1	B	2786	LYS
1	B	2852	ARG
1	B	3809	ASN
1	B	3988	ALA
1	B	4089	SER
1	B	4555	LEU
1	B	4686	LEU
1	B	4698	LYS
1	B	4866	SER
1	B	4984	ASN
1	B	5018	CYS
1	C	68	THR
1	C	304	ALA
1	C	313	SER
1	C	352	ALA
1	C	386	ASP
1	C	484	LEU
1	C	510	GLU
1	C	702	TRP

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	C	703	GLY
1	C	726	VAL
1	C	727	ALA
1	C	733	PRO
1	C	827	LYS
1	C	1436	SER
1	C	1588	ALA
1	C	1689	VAL
1	C	2109	ASP
1	C	2173	GLN
1	C	2191	PHE
1	C	2275	VAL
1	C	2786	LYS
1	C	2852	ARG
1	C	3809	ASN
1	C	3988	ALA
1	C	4089	SER
1	C	4555	LEU
1	C	4686	LEU
1	C	4698	LYS
1	C	4866	SER
1	C	4984	ASN
1	C	5018	CYS
1	D	68	THR
1	D	304	ALA
1	D	313	SER
1	D	352	ALA
1	D	386	ASP
1	D	484	LEU
1	D	510	GLU
1	D	702	TRP
1	D	703	GLY
1	D	726	VAL
1	D	727	ALA
1	D	733	PRO
1	D	827	LYS
1	D	1436	SER
1	D	1588	ALA
1	D	1689	VAL
1	D	2109	ASP
1	D	2173	GLN
1	D	2191	PHE

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	D	2275	VAL
1	D	2786	LYS
1	D	2852	ARG
1	D	3809	ASN
1	D	3988	ALA
1	D	4089	SER
1	D	4555	LEU
1	D	4686	LEU
1	D	4698	LYS
1	D	4866	SER
1	D	4984	ASN
1	D	5018	CYS
1	A	215	THR
1	A	231	LEU
1	A	337	PRO
1	A	452	PHE
1	A	710	ASP
1	A	838	HIS
1	A	1181	GLU
1	A	1190	PRO
1	A	1212	ARG
1	A	1462	MET
1	A	1702	HIS
1	A	2113	SER
1	A	2363	CYS
1	A	2530	MET
1	A	2743	LEU
1	A	2779	GLU
1	A	3062	PRO
1	A	3895	HIS
1	A	4034	ASN
1	A	4155	PRO
1	A	4634	GLU
1	A	4716	TRP
1	A	4774	LYS
1	A	4861	LYS
1	A	5019	TRP
1	B	215	THR
1	B	231	LEU
1	B	337	PRO
1	B	452	PHE
1	B	710	ASP

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	B	838	HIS
1	B	1181	GLU
1	B	1190	PRO
1	B	1212	ARG
1	B	1462	MET
1	B	1702	HIS
1	B	2113	SER
1	B	2363	CYS
1	B	2530	MET
1	B	2743	LEU
1	B	2779	GLU
1	B	3062	PRO
1	B	3895	HIS
1	B	4034	ASN
1	B	4155	PRO
1	B	4634	GLU
1	B	4716	TRP
1	B	4774	LYS
1	B	4861	LYS
1	B	5019	TRP
1	C	215	THR
1	C	231	LEU
1	C	337	PRO
1	C	452	PHE
1	C	710	ASP
1	C	838	HIS
1	C	1181	GLU
1	C	1190	PRO
1	C	1212	ARG
1	C	1462	MET
1	C	1702	HIS
1	C	2113	SER
1	C	2363	CYS
1	C	2530	MET
1	C	2743	LEU
1	C	2779	GLU
1	C	3062	PRO
1	C	3895	HIS
1	C	4034	ASN
1	C	4155	PRO
1	C	4634	GLU
1	C	4716	TRP

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	C	4774	LYS
1	C	4861	LYS
1	C	5019	TRP
1	D	215	THR
1	D	231	LEU
1	D	337	PRO
1	D	452	PHE
1	D	710	ASP
1	D	838	HIS
1	D	1181	GLU
1	D	1190	PRO
1	D	1212	ARG
1	D	1462	MET
1	D	1702	HIS
1	D	2113	SER
1	D	2240	CYS
1	D	2363	CYS
1	D	2530	MET
1	D	2743	LEU
1	D	2779	GLU
1	D	3062	PRO
1	D	3895	HIS
1	D	4034	ASN
1	D	4155	PRO
1	D	4634	GLU
1	D	4716	TRP
1	D	4774	LYS
1	D	4861	LYS
1	D	5019	TRP
1	A	243	ARG
1	A	769	GLU
1	A	1277	TRP
1	A	1602	PRO
1	A	1649	ASP
1	A	1680	ARG
1	A	1829	PRO
1	A	2110	TYR
1	A	2240	CYS
1	A	2532	ALA
1	A	2589	LEU
1	A	3759	GLU
1	A	3806	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	A	4092	ASP
1	A	4190	ILE
1	A	4556	SER
1	A	4904	PRO
1	B	243	ARG
1	B	769	GLU
1	B	1277	TRP
1	B	1602	PRO
1	B	1649	ASP
1	B	1680	ARG
1	B	1829	PRO
1	B	2110	TYR
1	B	2240	CYS
1	B	2532	ALA
1	B	2589	LEU
1	B	3759	GLU
1	B	3806	ASN
1	B	4092	ASP
1	B	4190	ILE
1	B	4556	SER
1	B	4904	PRO
1	C	243	ARG
1	C	769	GLU
1	C	1277	TRP
1	C	1602	PRO
1	C	1649	ASP
1	C	1680	ARG
1	C	1829	PRO
1	C	2110	TYR
1	C	2240	CYS
1	C	2532	ALA
1	C	2589	LEU
1	C	3759	GLU
1	C	3806	ASN
1	C	4092	ASP
1	C	4190	ILE
1	C	4556	SER
1	C	4904	PRO
1	D	243	ARG
1	D	769	GLU
1	D	1277	TRP
1	D	1602	PRO

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	D	1649	ASP
1	D	1680	ARG
1	D	1829	PRO
1	D	2110	TYR
1	D	2532	ALA
1	D	2589	LEU
1	D	3759	GLU
1	D	3806	ASN
1	D	4092	ASP
1	D	4190	ILE
1	D	4556	SER
1	D	4904	PRO
1	A	504	ALA
1	A	765	GLN
1	A	767	VAL
1	A	1189	LEU
1	A	1601	MET
1	A	1690	ASP
1	A	1703	LEU
1	A	2169	GLN
1	A	2867	LEU
1	A	3805	LEU
1	A	4005	GLN
1	A	4087	LEU
1	A	4188	ARG
1	A	4239	GLU
1	A	4635	SER
1	A	4714	ASN
1	A	4985	LEU
1	A	4999	ASP
1	A	5023	PRO
1	B	504	ALA
1	B	765	GLN
1	B	767	VAL
1	B	1189	LEU
1	B	1601	MET
1	B	1690	ASP
1	B	1703	LEU
1	B	2169	GLN
1	B	2867	LEU
1	B	3805	LEU
1	B	4005	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	B	4087	LEU
1	B	4188	ARG
1	B	4239	GLU
1	B	4635	SER
1	B	4714	ASN
1	B	4999	ASP
1	B	5023	PRO
1	C	504	ALA
1	C	765	GLN
1	C	767	VAL
1	C	1189	LEU
1	C	1601	MET
1	C	1690	ASP
1	C	1703	LEU
1	C	2169	GLN
1	C	2867	LEU
1	C	3805	LEU
1	C	4005	GLN
1	C	4087	LEU
1	C	4188	ARG
1	C	4239	GLU
1	C	4635	SER
1	C	4714	ASN
1	C	4999	ASP
1	C	5023	PRO
1	D	504	ALA
1	D	765	GLN
1	D	767	VAL
1	D	1189	LEU
1	D	1601	MET
1	D	1690	ASP
1	D	1703	LEU
1	D	2169	GLN
1	D	2867	LEU
1	D	3805	LEU
1	D	4005	GLN
1	D	4087	LEU
1	D	4188	ARG
1	D	4239	GLU
1	D	4635	SER
1	D	4714	ASN
1	D	4999	ASP

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	D	5023	PRO
1	A	132	ALA
1	A	919	ASN
1	A	2361	PRO
1	B	132	ALA
1	B	919	ASN
1	B	2361	PRO
1	C	132	ALA
1	C	919	ASN
1	C	2361	PRO
1	C	3893	GLU
1	D	132	ALA
1	D	919	ASN
1	D	2361	PRO
1	A	779	PRO
1	B	779	PRO
1	C	779	PRO
1	C	1294	PRO
1	D	779	PRO
1	D	1294	PRO
1	A	646	PRO
1	A	1294	PRO
1	A	4773	VAL
1	B	646	PRO
1	B	1294	PRO
1	B	4773	VAL
1	C	646	PRO
1	C	4773	VAL
1	D	646	PRO
1	D	4773	VAL
1	A	1543	GLU
1	B	1543	GLU
1	C	1543	GLU
1	D	1543	GLU
1	A	2860	PRO
1	B	2860	PRO
1	C	2860	PRO
1	D	2860	PRO
1	A	4733	GLY
1	B	4733	GLY
1	C	4733	GLY
1	D	4733	GLY

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	A	842	PRO
1	B	842	PRO
1	C	842	PRO
1	D	842	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 PDB entries followed by that with respect to all EM entries.

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	317/4276 (7%)	225 (71%)	92 (29%)	0	3
1	B	317/4276 (7%)	229 (72%)	88 (28%)	0	4
1	C	317/4276 (7%)	229 (72%)	88 (28%)	0	4
1	D	317/4276 (7%)	228 (72%)	89 (28%)	0	3
All	All	1268/17104 (7%)	911 (72%)	357 (28%)	2	3

All (357) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	133	PHE
1	A	478	PHE
1	A	515	TRP
1	A	1564	PHE
1	A	1748	PHE
1	A	2063	LEU
1	A	2128	TYR
1	A	2191	PHE
1	A	2454	ARG
1	A	3828	PHE
1	A	3833	GLN
1	A	3837	GLN
1	A	3880	PHE
1	A	3902	TYR
1	A	3933	PHE
1	A	3935	TRP
1	A	3937	TYR

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	A	3951	PHE
1	A	4061	PHE
1	A	4108	ILE
1	A	4110	PHE
1	A	4128	PHE
1	A	4132	PHE
1	A	4148	THR
1	A	4181	ILE
1	A	4182	GLU
1	A	4183	ILE
1	A	4195	PHE
1	A	4238	CYS
1	A	4241	THR
1	A	4243	PHE
1	A	4559	PHE
1	A	4561	THR
1	A	4575	PHE
1	A	4643	LEU
1	A	4645	CYS
1	A	4646	LEU
1	A	4650	HIS
1	A	4656	LEU
1	A	4663	CYS
1	A	4664	LEU
1	A	4666	VAL
1	A	4670	ILE
1	A	4673	ARG
1	A	4697	VAL
1	A	4719	PHE
1	A	4768	LEU
1	A	4776	GLN
1	A	4783	ILE
1	A	4789	PHE
1	A	4797	VAL
1	A	4799	SER
1	A	4800	LEU
1	A	4801	LEU
1	A	4806	ASN
1	A	4823	LEU
1	A	4837	LEU
1	A	4844	LEU
1	A	4849	TYR

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	A	4854	VAL
1	A	4886	HIS
1	A	4916	PHE
1	A	4919	THR
1	A	4922	PHE
1	A	4923	PHE
1	A	4925	ILE
1	A	4927	ILE
1	A	4928	LEU
1	A	4929	LEU
1	A	4931	ILE
1	A	4933	GLN
1	A	4936	ILE
1	A	4940	PHE
1	A	4943	LEU
1	A	4944	ARG
1	A	4948	GLU
1	A	4952	GLU
1	A	4967	TYR
1	A	4971	THR
1	A	4977	THR
1	A	4983	HIS
1	A	4991	PHE
1	A	4994	TYR
1	A	4996	ILE
1	A	4997	ASN
1	A	5009	TYR
1	A	5014	TYR
1	A	5019	TRP
1	A	5020	ASP
1	A	5023	PRO
1	A	5026	ASP
1	A	5028	PHE
1	B	133	PHE
1	B	478	PHE
1	B	515	TRP
1	B	1564	PHE
1	B	1748	PHE
1	B	2063	LEU
1	B	2128	TYR
1	B	2191	PHE
1	B	2454	ARG

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	B	3828	PHE
1	B	3833	GLN
1	B	3837	GLN
1	B	3880	PHE
1	B	3902	TYR
1	B	3933	PHE
1	B	3935	TRP
1	B	3937	TYR
1	B	3951	PHE
1	B	4061	PHE
1	B	4108	ILE
1	B	4110	PHE
1	B	4128	PHE
1	B	4132	PHE
1	B	4148	THR
1	B	4181	ILE
1	B	4182	GLU
1	B	4183	ILE
1	B	4195	PHE
1	B	4238	CYS
1	B	4241	THR
1	B	4243	PHE
1	B	4559	PHE
1	B	4561	THR
1	B	4575	PHE
1	B	4643	LEU
1	B	4645	CYS
1	B	4646	LEU
1	B	4650	HIS
1	B	4656	LEU
1	B	4663	CYS
1	B	4664	LEU
1	B	4666	VAL
1	B	4670	ILE
1	B	4673	ARG
1	B	4697	VAL
1	B	4719	PHE
1	B	4768	LEU
1	B	4776	GLN
1	B	4783	ILE
1	B	4789	PHE
1	B	4797	VAL

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	B	4799	SER
1	B	4800	LEU
1	B	4801	LEU
1	B	4806	ASN
1	B	4823	LEU
1	B	4837	LEU
1	B	4844	LEU
1	B	4849	TYR
1	B	4854	VAL
1	B	4886	HIS
1	B	4916	PHE
1	B	4919	THR
1	B	4922	PHE
1	B	4923	PHE
1	B	4925	ILE
1	B	4927	ILE
1	B	4928	LEU
1	B	4929	LEU
1	B	4931	ILE
1	B	4933	GLN
1	B	4940	PHE
1	B	4943	LEU
1	B	4944	ARG
1	B	4948	GLU
1	B	4952	GLU
1	B	4967	TYR
1	B	4971	THR
1	B	4977	THR
1	B	4983	HIS
1	B	4997	ASN
1	B	5009	TYR
1	B	5014	TYR
1	B	5019	TRP
1	B	5020	ASP
1	B	5023	PRO
1	B	5026	ASP
1	B	5028	PHE
1	C	133	PHE
1	C	478	PHE
1	C	515	TRP
1	C	1564	PHE
1	C	1748	PHE

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	C	2063	LEU
1	C	2128	TYR
1	C	2191	PHE
1	C	2454	ARG
1	C	3828	PHE
1	C	3833	GLN
1	C	3837	GLN
1	C	3880	PHE
1	C	3902	TYR
1	C	3933	PHE
1	C	3935	TRP
1	C	3937	TYR
1	C	3951	PHE
1	C	4061	PHE
1	C	4108	ILE
1	C	4110	PHE
1	C	4128	PHE
1	C	4132	PHE
1	C	4148	THR
1	C	4181	ILE
1	C	4182	GLU
1	C	4183	ILE
1	C	4195	PHE
1	C	4238	CYS
1	C	4241	THR
1	C	4243	PHE
1	C	4559	PHE
1	C	4561	THR
1	C	4575	PHE
1	C	4643	LEU
1	C	4645	CYS
1	C	4646	LEU
1	C	4650	HIS
1	C	4656	LEU
1	C	4663	CYS
1	C	4664	LEU
1	C	4666	VAL
1	C	4670	ILE
1	C	4673	ARG
1	C	4697	VAL
1	C	4719	PHE
1	C	4768	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	C	4776	GLN
1	C	4783	ILE
1	C	4789	PHE
1	C	4797	VAL
1	C	4799	SER
1	C	4800	LEU
1	C	4801	LEU
1	C	4806	ASN
1	C	4823	LEU
1	C	4837	LEU
1	C	4844	LEU
1	C	4849	TYR
1	C	4854	VAL
1	C	4886	HIS
1	C	4916	PHE
1	C	4919	THR
1	C	4922	PHE
1	C	4923	PHE
1	C	4925	ILE
1	C	4927	ILE
1	C	4928	LEU
1	C	4929	LEU
1	C	4931	ILE
1	C	4933	GLN
1	C	4936	ILE
1	C	4940	PHE
1	C	4944	ARG
1	C	4948	GLU
1	C	4952	GLU
1	C	4967	TYR
1	C	4971	THR
1	C	4977	THR
1	C	4983	HIS
1	C	4997	ASN
1	C	5009	TYR
1	C	5014	TYR
1	C	5019	TRP
1	C	5020	ASP
1	C	5023	PRO
1	C	5026	ASP
1	C	5028	PHE
1	D	133	PHE

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	D	478	PHE
1	D	515	TRP
1	D	1564	PHE
1	D	1748	PHE
1	D	2063	LEU
1	D	2128	TYR
1	D	2191	PHE
1	D	2454	ARG
1	D	3828	PHE
1	D	3833	GLN
1	D	3837	GLN
1	D	3880	PHE
1	D	3902	TYR
1	D	3933	PHE
1	D	3935	TRP
1	D	3937	TYR
1	D	3951	PHE
1	D	4061	PHE
1	D	4108	ILE
1	D	4110	PHE
1	D	4128	PHE
1	D	4132	PHE
1	D	4148	THR
1	D	4181	ILE
1	D	4182	GLU
1	D	4183	ILE
1	D	4195	PHE
1	D	4238	CYS
1	D	4241	THR
1	D	4243	PHE
1	D	4559	PHE
1	D	4561	THR
1	D	4575	PHE
1	D	4643	LEU
1	D	4645	CYS
1	D	4646	LEU
1	D	4650	HIS
1	D	4656	LEU
1	D	4663	CYS
1	D	4664	LEU
1	D	4666	VAL
1	D	4670	ILE

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	D	4673	ARG
1	D	4697	VAL
1	D	4719	PHE
1	D	4768	LEU
1	D	4776	GLN
1	D	4783	ILE
1	D	4789	PHE
1	D	4797	VAL
1	D	4799	SER
1	D	4800	LEU
1	D	4801	LEU
1	D	4806	ASN
1	D	4823	LEU
1	D	4837	LEU
1	D	4844	LEU
1	D	4849	TYR
1	D	4854	VAL
1	D	4886	HIS
1	D	4916	PHE
1	D	4919	THR
1	D	4922	PHE
1	D	4923	PHE
1	D	4925	ILE
1	D	4927	ILE
1	D	4928	LEU
1	D	4929	LEU
1	D	4931	ILE
1	D	4933	GLN
1	D	4940	PHE
1	D	4943	LEU
1	D	4944	ARG
1	D	4947	GLN
1	D	4948	GLU
1	D	4952	GLU
1	D	4967	TYR
1	D	4971	THR
1	D	4977	THR
1	D	4983	HIS
1	D	4997	ASN
1	D	5009	TYR
1	D	5014	TYR
1	D	5019	TRP

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	D	5020	ASP
1	D	5023	PRO
1	D	5026	ASP
1	D	5028	PHE

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (44) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	1702	HIS
1	A	2161	GLN
1	A	3833	GLN
1	A	4553	ASN
1	A	4650	HIS
1	A	4776	GLN
1	A	4803	HIS
1	A	4806	ASN
1	A	4833	ASN
1	A	4857	ASN
1	A	4983	HIS
1	B	1702	HIS
1	B	2161	GLN
1	B	3833	GLN
1	B	4553	ASN
1	B	4650	HIS
1	B	4776	GLN
1	B	4803	HIS
1	B	4806	ASN
1	B	4833	ASN
1	B	4857	ASN
1	B	4983	HIS
1	C	1702	HIS
1	C	2161	GLN
1	C	3833	GLN
1	C	4553	ASN
1	C	4650	HIS
1	C	4776	GLN
1	C	4803	HIS
1	C	4806	ASN
1	C	4857	ASN
1	C	4983	HIS
1	C	5031	GLN
1	D	1702	HIS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	D	2161	GLN
1	D	3833	GLN
1	D	4553	ASN
1	D	4650	HIS
1	D	4776	GLN
1	D	4803	HIS
1	D	4806	ASN
1	D	4833	ASN
1	D	4857	ASN
1	D	4983	HIS

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no carbohydrates in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.