



Full wwPDB X-ray Structure Validation Report ⓘ

Dec 3, 2023 – 12:31 pm GMT

PDB ID : 2V50
Title : The Missing Part of the Bacterial MexAB-OprM System: Structural determination of the Multidrug Exporter MexB
Authors : Sennhauser, G.; Bukowska, M.A.; Gruetter, M.G.
Deposited on : 2008-10-01
Resolution : 3.00 Å(reported)

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

MolProbity : 4.02b-467
Mogul : 1.8.4, CSD as541be (2020)
Xtriage (Phenix) : 1.13
EDS : 2.36
buster-report : 1.1.7 (2018)
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac : 5.8.0158
CCP4 : 7.0.044 (Gargrove)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.36

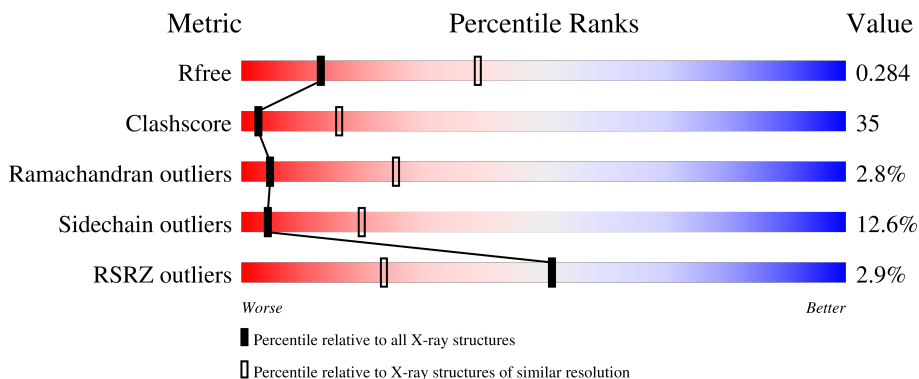
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.00 Å.

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




Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	130704	2092 (3.00-3.00)
Clashscore	141614	2416 (3.00-3.00)
Ramachandran outliers	138981	2333 (3.00-3.00)
Sidechain outliers	138945	2336 (3.00-3.00)
RSRZ outliers	127900	1990 (3.00-3.00)

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

Mol	Chain	Length	Quality of chain
1	A	1052	
1	B	1052	
1	C	1052	
1	D	1052	
1	E	1052	

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
1	F	1052	

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

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
2	LMT	B	2033	-	-	-	X

2 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 46628 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called MULTIDRUG RESISTANCE PROTEIN MEXB.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	1005	Total 7634	C 4920	N 1265	O 1410	S 39	6	0	0
1	B	1030	Total 7812	C 5027	N 1298	O 1447	S 40	0	0	0
1	C	1030	Total 7812	C 5027	N 1298	O 1447	S 40	12	0	0
1	D	998	Total 7582	C 4888	N 1255	O 1399	S 40	0	0	0
1	E	1012	Total 7696	C 4956	N 1279	O 1421	S 40	0	0	0
1	F	1030	Total 7812	C 5027	N 1298	O 1447	S 40	0	0	0

There are 36 discrepancies between the modelled and reference sequences:

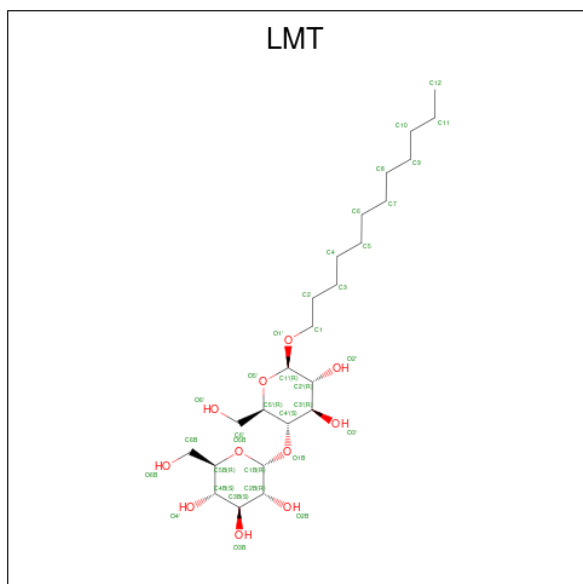
Chain	Residue	Modelled	Actual	Comment	Reference
A	1047	HIS	-	expression tag	UNP P52002
A	1048	HIS	-	expression tag	UNP P52002
A	1049	HIS	-	expression tag	UNP P52002
A	1050	HIS	-	expression tag	UNP P52002
A	1051	HIS	-	expression tag	UNP P52002
A	1052	HIS	-	expression tag	UNP P52002
B	1047	HIS	-	expression tag	UNP P52002
B	1048	HIS	-	expression tag	UNP P52002
B	1049	HIS	-	expression tag	UNP P52002
B	1050	HIS	-	expression tag	UNP P52002
B	1051	HIS	-	expression tag	UNP P52002
B	1052	HIS	-	expression tag	UNP P52002
C	1047	HIS	-	expression tag	UNP P52002
C	1048	HIS	-	expression tag	UNP P52002
C	1049	HIS	-	expression tag	UNP P52002
C	1050	HIS	-	expression tag	UNP P52002
C	1051	HIS	-	expression tag	UNP P52002

Continued on next page...

Continued from previous page...

Chain	Residue	Modelled	Actual	Comment	Reference
C	1052	HIS	-	expression tag	UNP P52002
D	1047	HIS	-	expression tag	UNP P52002
D	1048	HIS	-	expression tag	UNP P52002
D	1049	HIS	-	expression tag	UNP P52002
D	1050	HIS	-	expression tag	UNP P52002
D	1051	HIS	-	expression tag	UNP P52002
D	1052	HIS	-	expression tag	UNP P52002
E	1047	HIS	-	expression tag	UNP P52002
E	1048	HIS	-	expression tag	UNP P52002
E	1049	HIS	-	expression tag	UNP P52002
E	1050	HIS	-	expression tag	UNP P52002
E	1051	HIS	-	expression tag	UNP P52002
E	1052	HIS	-	expression tag	UNP P52002
F	1047	HIS	-	expression tag	UNP P52002
F	1048	HIS	-	expression tag	UNP P52002
F	1049	HIS	-	expression tag	UNP P52002
F	1050	HIS	-	expression tag	UNP P52002
F	1051	HIS	-	expression tag	UNP P52002
F	1052	HIS	-	expression tag	UNP P52002

- Molecule 2 is DODECYL-BETA-D-MALTOSE (three-letter code: LMT) (formula: $C_{24}H_{46}O_{11}$).



Mol	Chain	Residues	Atoms		ZeroOcc	AltConf	
2	A	1	Total	C	O	0	0
			35	24	11		

Continued on next page...

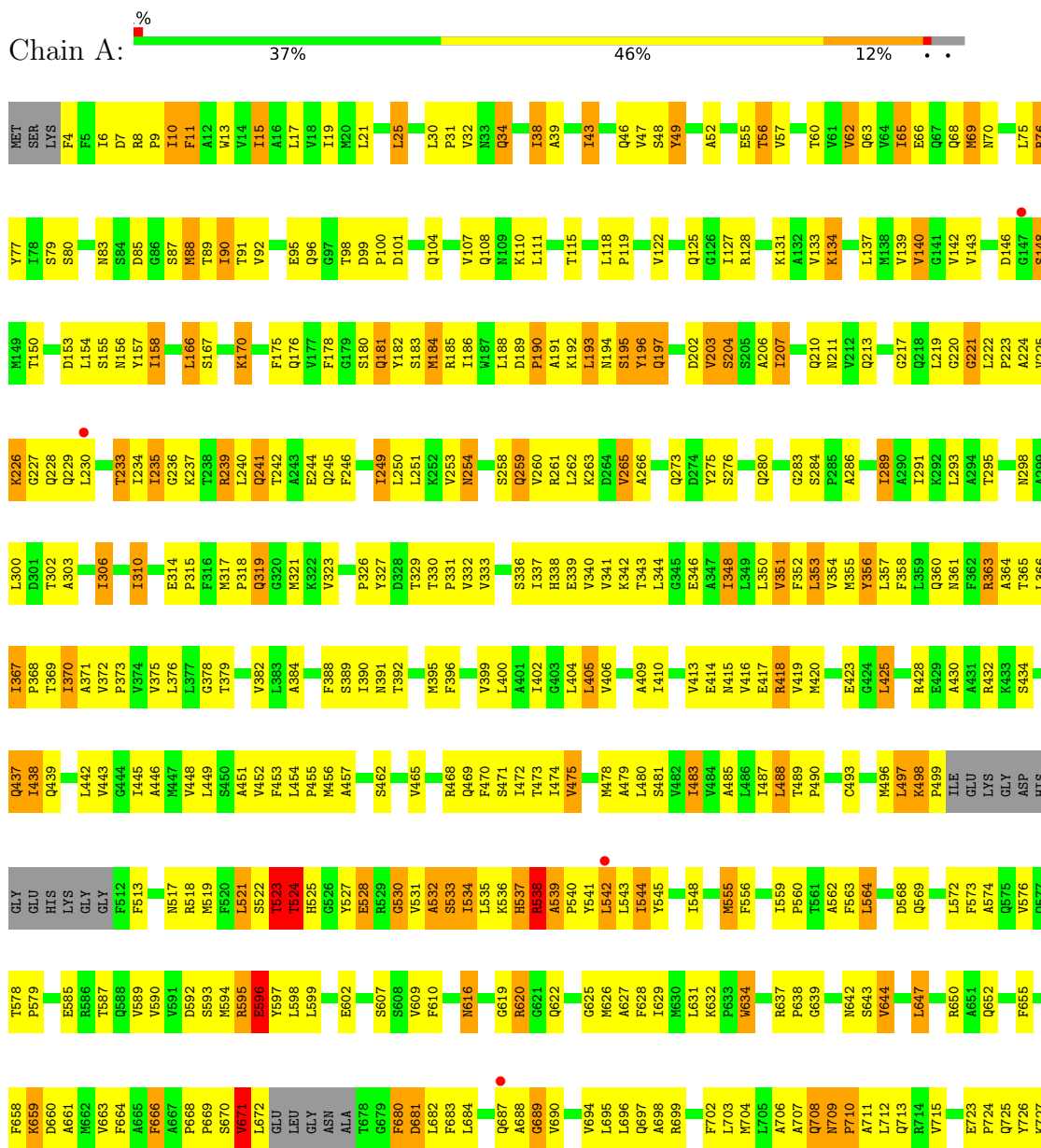
Continued from previous page...

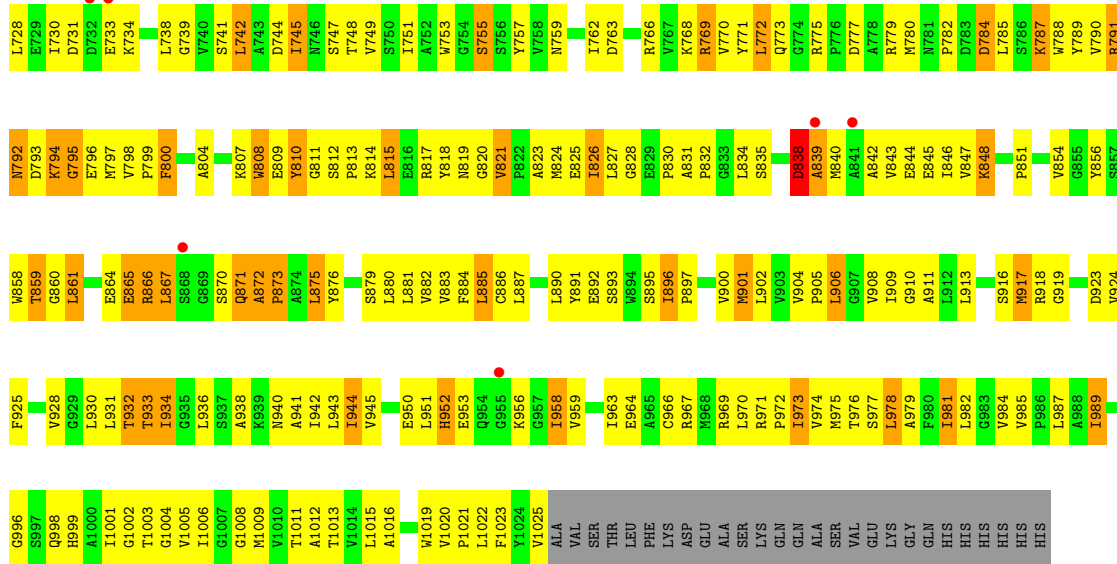
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
2	B	1	Total	C	O	0	0
			35	24	11		
2	B	1	Total	C	O	0	0
			35	24	11		
2	B	1	Total	C	O	0	0
			35	24	11		
2	D	1	Total	C	O	0	0
			35	24	11		
2	E	1	Total	C	O	0	0
			35	24	11		
2	E	1	Total	C	O	0	0
			35	24	11		
2	E	1	Total	C	O	0	0
			35	24	11		

3 Residue-property plots

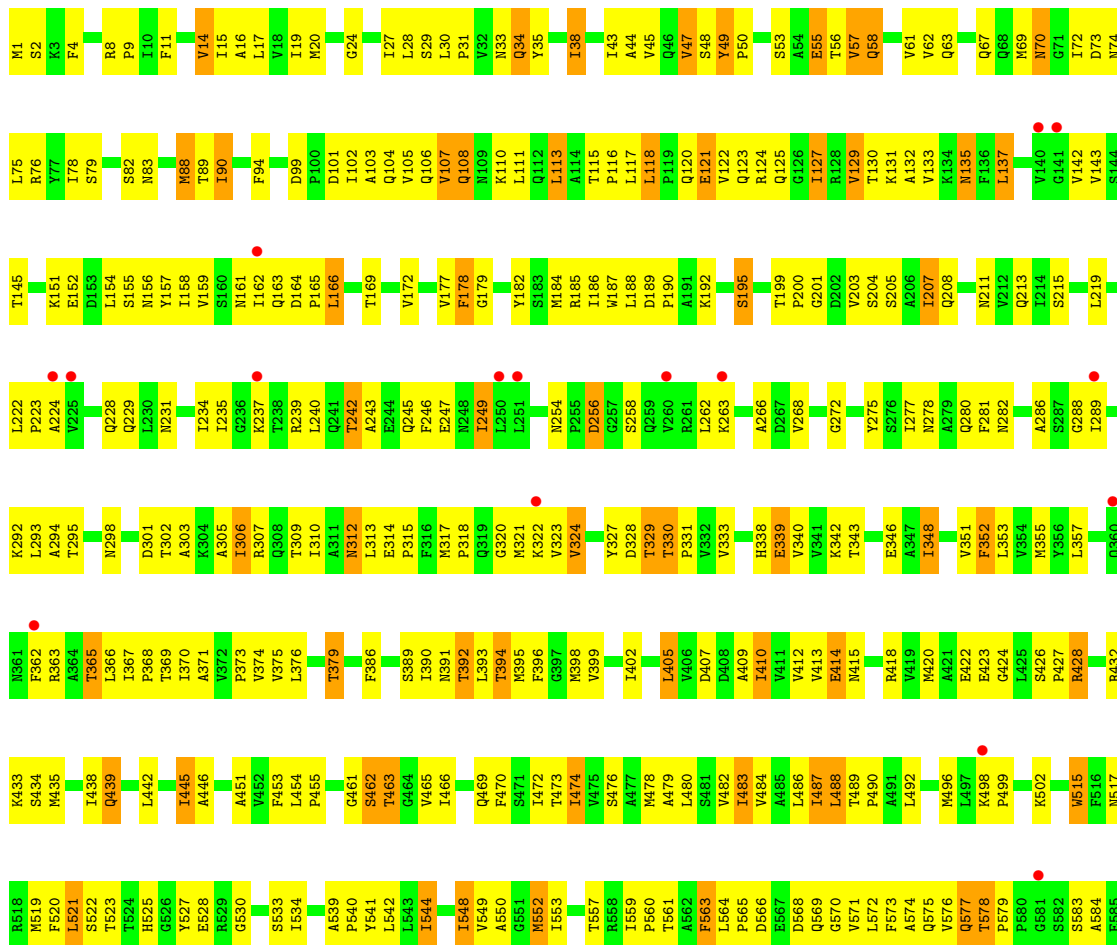
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density.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

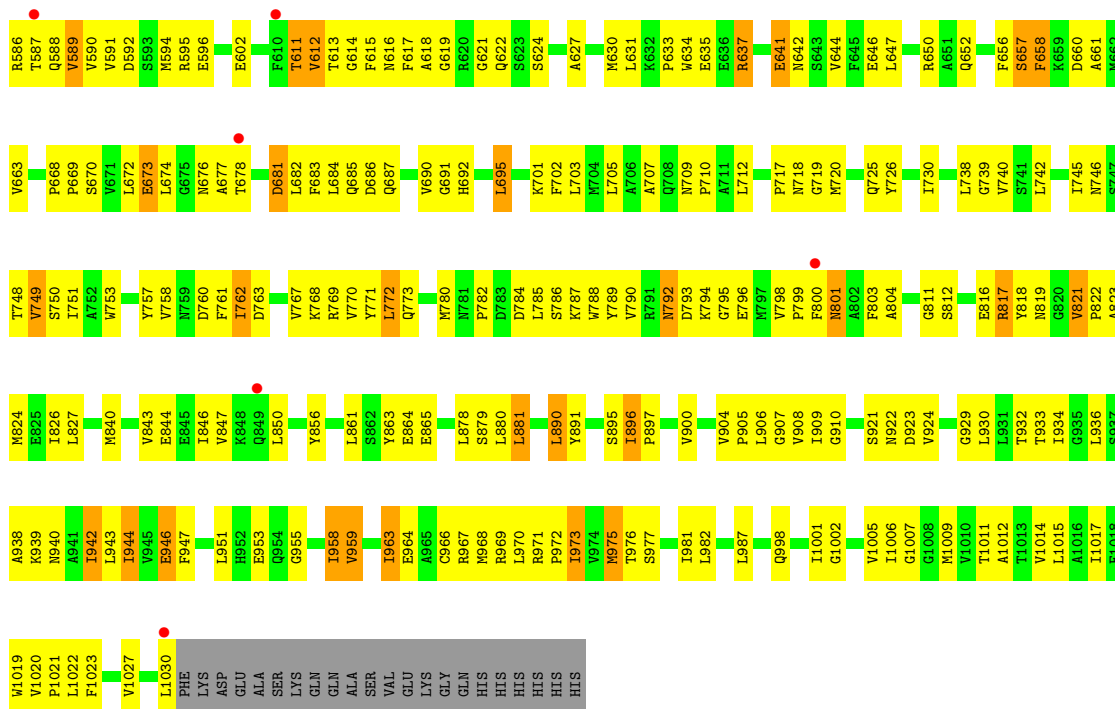
- Molecule 1: MULTIDRUG RESISTANCE PROTEIN MEXB



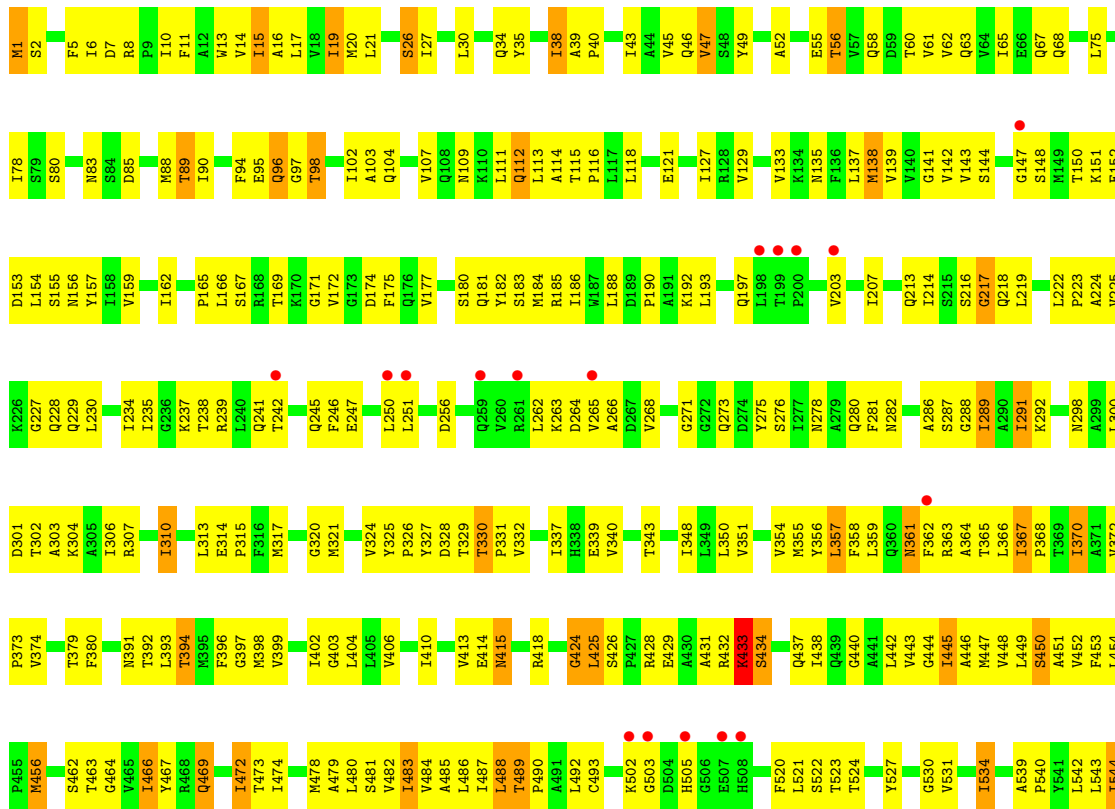


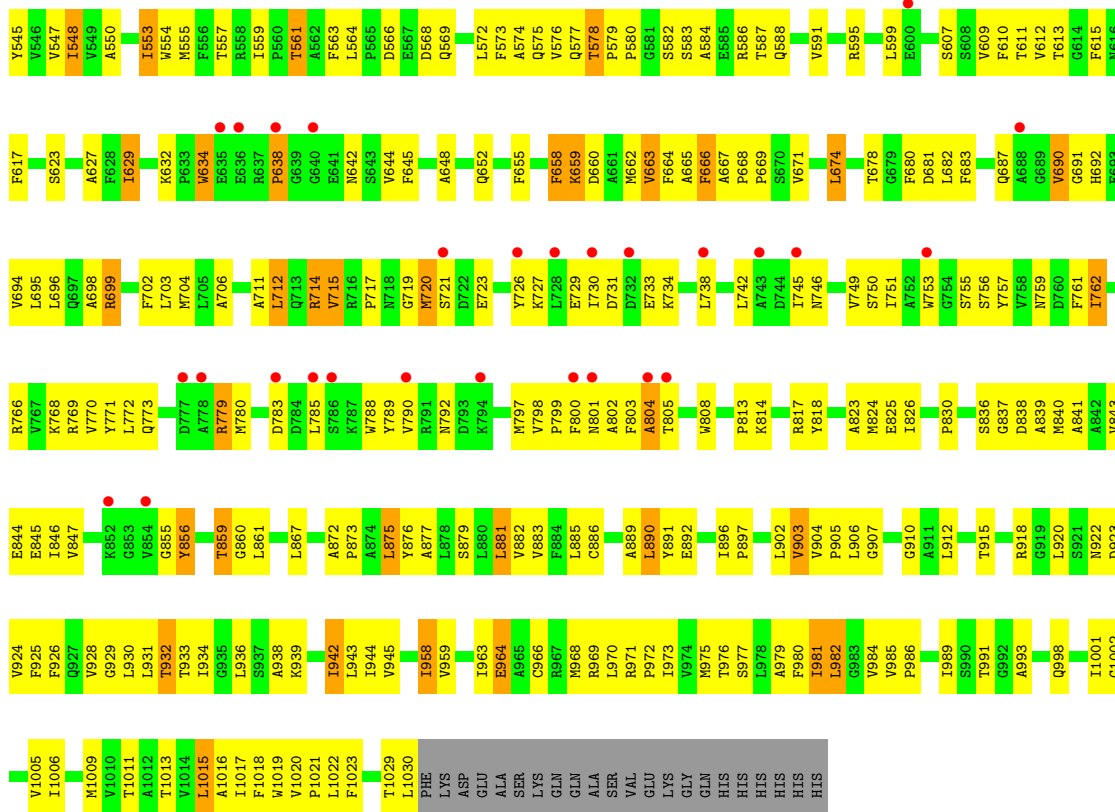
● Molecule 1: MULTIDRUG RESISTANCE PROTEIN MEXB



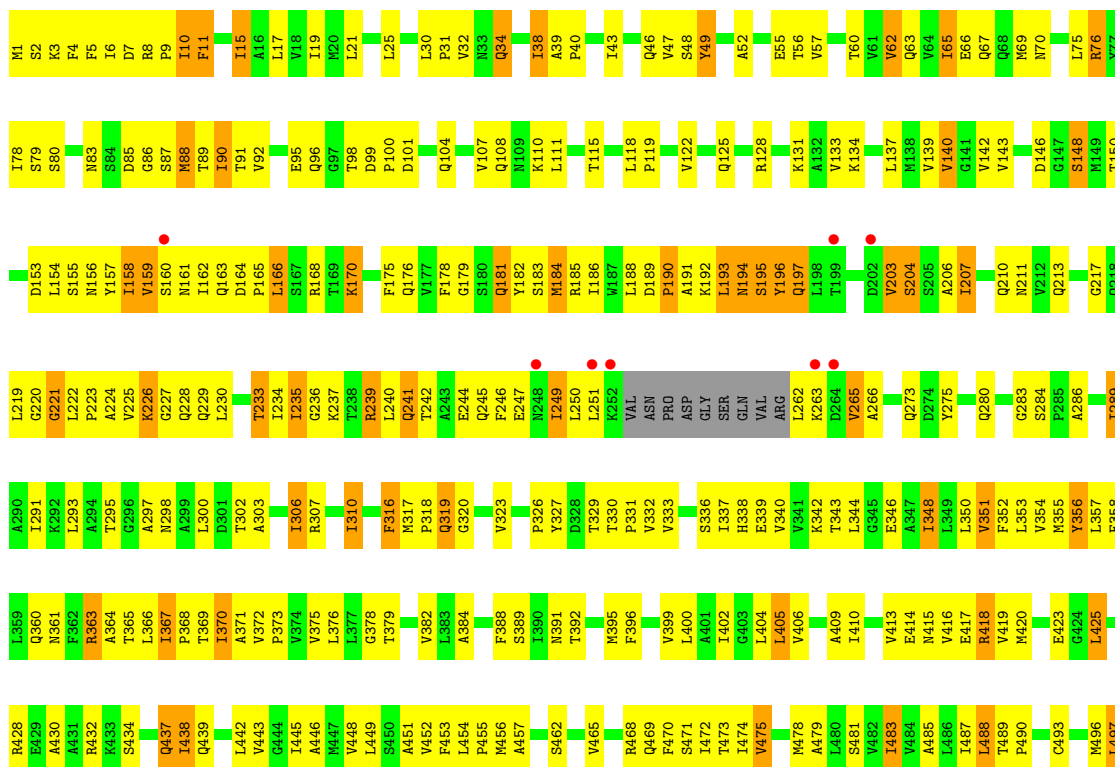


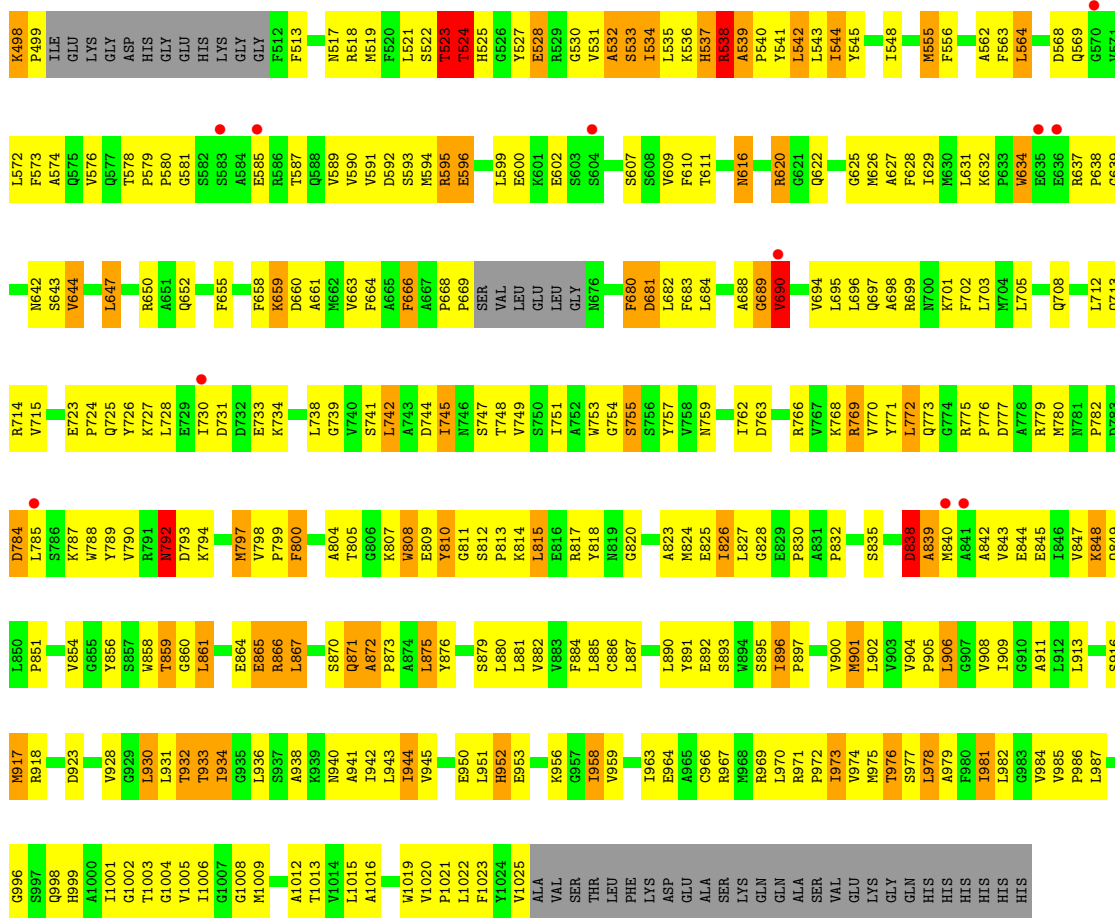
● Molecule 1: MULTIDRUG RESISTANCE PROTEIN MEXB



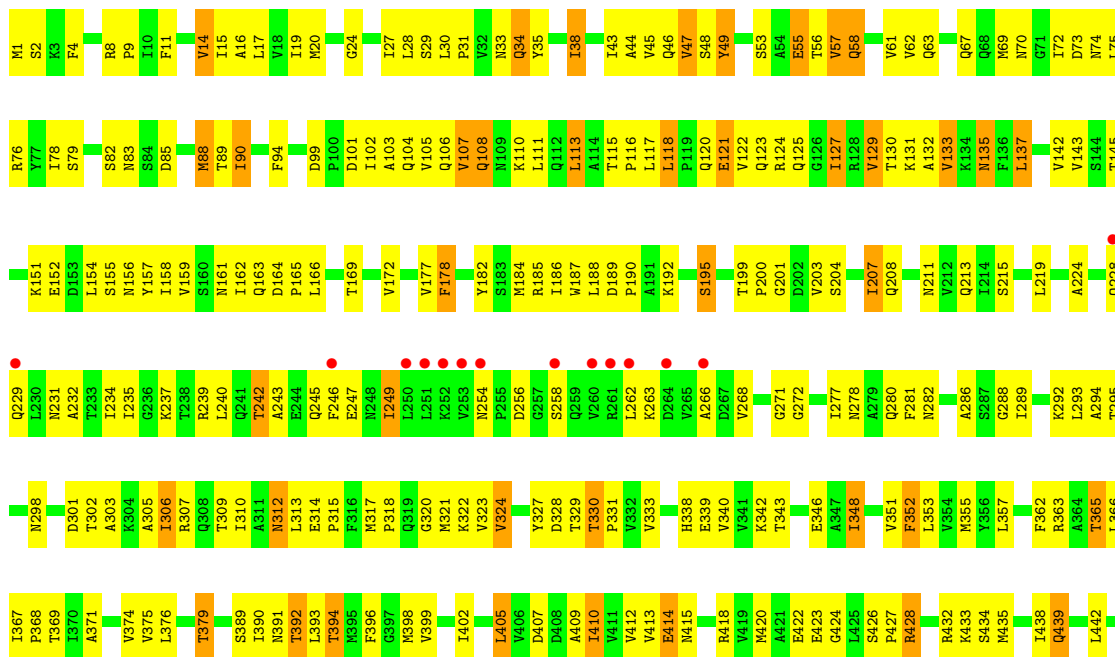


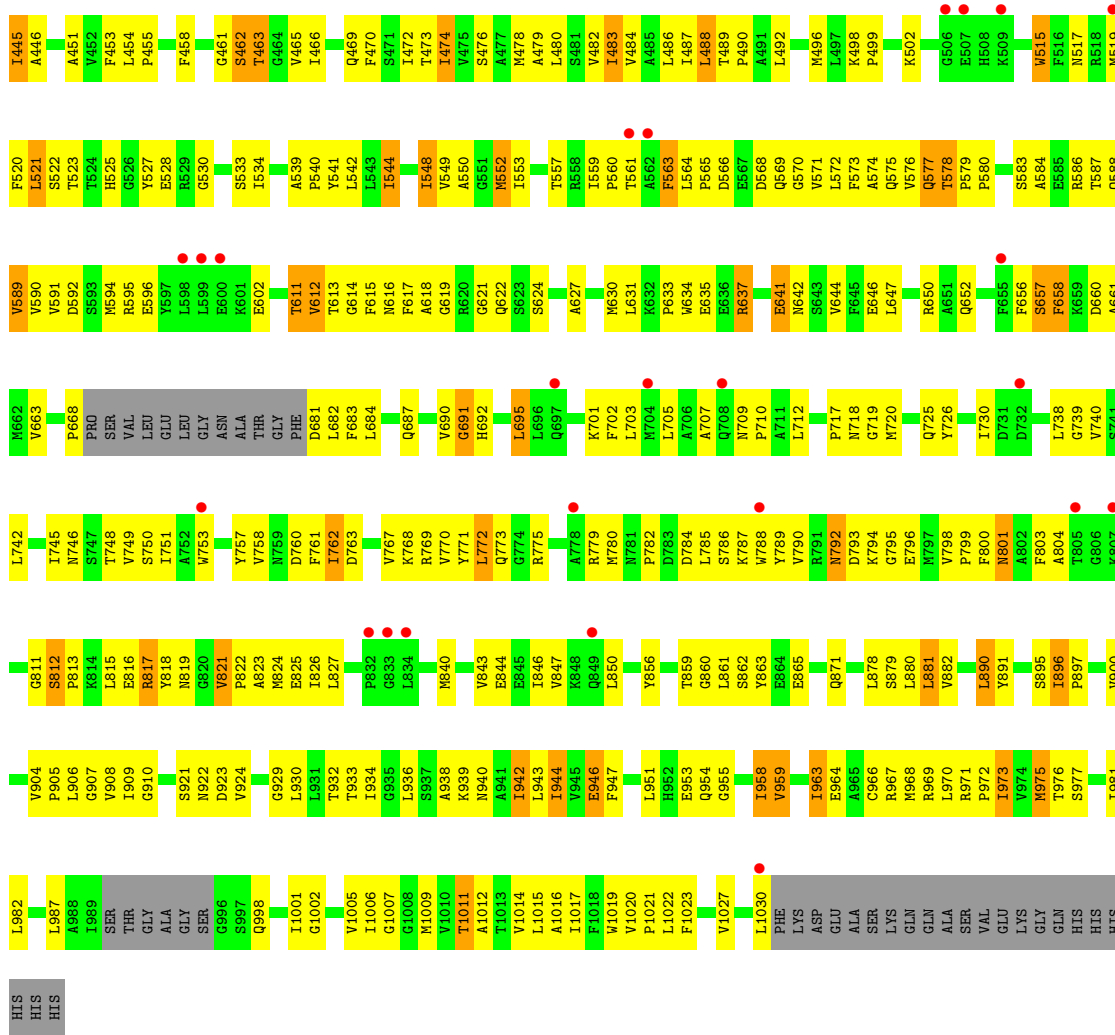
• Molecule 1: MULTIDRUG RESISTANCE PROTEIN MEXB



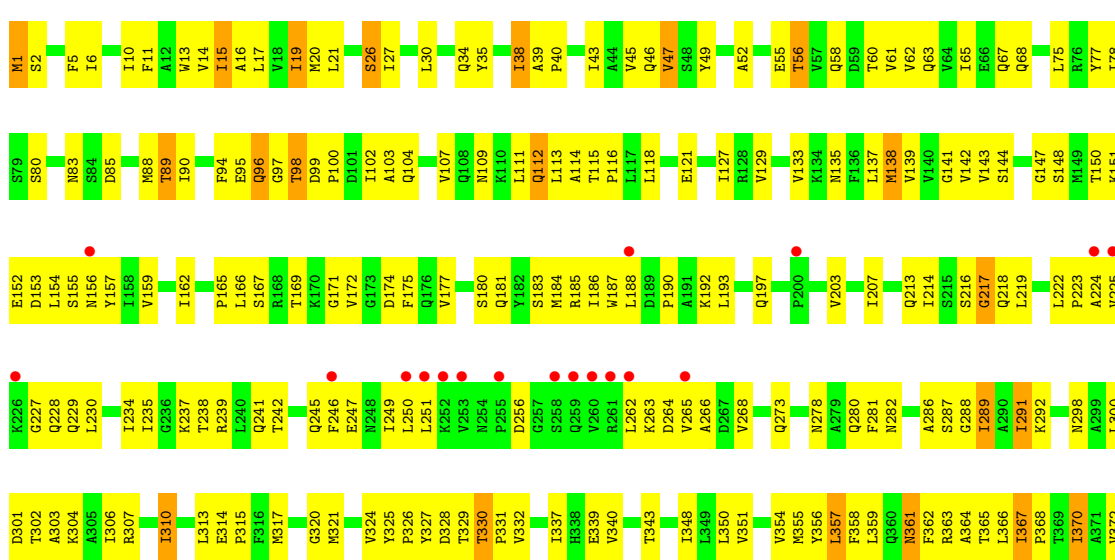
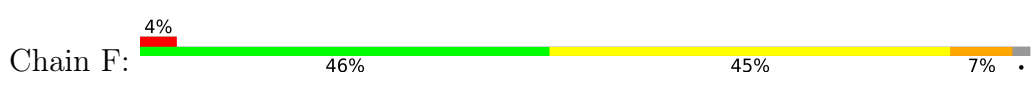


Molecule 1: MULTIDRUG RESISTANCE PROTEIN MEXB





• Molecule 1: MULTIDRUG RESISTANCE PROTEIN MEXB



A1012	T1013	V1014	L1015	A1016	L1017	F1018	W1019	V1020	P1021	L1022	F1023	T1029	L1030	PHE	LYS	ASP	GLU	ALA	SER	LYS	GLN	GLN	ALA	SER	VAL	GLU	LYS	GLY	GLN	HIS	HIS	HIS	HIS	HIS	HIS	HIS																	
1932	1933	1934	9935	9936	9937	9938	9939	1942	1943	1944	1945	9946	1958	9959	1963	9964	9965	9966	9967	9968	9969	1970	9971	9972	9973	9974	9975	9976	9977	1981	1982	9983	9984	9985	9986	9989	9990	9991	9992	9993	9998	11001	11002	11005	11006	11009	11010	11011					
I846	V847	G855	Y856	T859	G860	L867	A872	P873	A874	L875	Y876	A877	L878	S879	L880	L881	V882	V883	F884	L885	C886	A889	L890	Y891	E892	I896	P897	L902	V903	V904	P905	L906	G907	G910	A911	L912	T915	L920	S921	N922	D923	V924	F925	F926	G927	V928	G929	L930	L931				
R766	V767	K768	R769	V770	Y771	L772	Q773	R779	M780	D783	D784	L785	W788	Y789	V790	R791	W792	D793	K794	G795	E796	M797	V798	F799	F800	N801	A802	F803	A804	T805	W808	S812	P813	K814	R817	Y818	A823	M824	E825	I826	P830	G837	D838	A839	W840	A841	A842	V843	V844				
L696	Q697	A698	R699	F702	L703	M704	A705	M709	P710	A711	L712	Q713	Y714	F715	N716	P717	W718	G719	W720	S721	E723	P724	Q725	Y726	E729	I730	M731	D732	E733	K734	L738	L742	A743	D744	I745	N746	S747	T748	V749	S750	D681	I751	A752	W753	G754	S755	S756	Y757	W758	N759	D760	F761	I762
F617	S623	M626	F628	I629	K632	P633	M634	P638	G639	G640	E641	N642	S643	V644	F645	A648	Q652	F655	F658	K659	D660	A661	V662	V663	F664	S665	F666	A667	P668	P669	S670	V671	L674	T678	G679	F680	D681	L682	F683	Q687	V690	G691	H692	E693	V694	L695							
R455	M456	S462	T463	G464	Y465	I466	Y467	Q469	I472	T473	I474	M478	A479	L480	S481	V482	I483	V484	A485	L486	I487	L488	T489	P490	A491	L492	C493	K502	G503	D504	R427	H505	G506	E507	F520	L521	S522	T523	T524	H525	Y527	G530	V531	I534	A539	P540	Y541	L542	L543	I544			
P373	V374	T379	F380	N391	T392	L393	T394	M395	F396	G397	M398	V399	I402	G403	L404	V406	D407	D408	A409	I410	V413	E414	N415	R418	G424	L425	S426	R427	P428	H505	E429	K433	S434	Q437	I438	Q439	G440	A441	L442	V443	G444	I445	A446	M447	V448	L449	S450	A451	V452	F453	L454		

4 Data and refinement statistics

Property	Value	Source
Space group	P 1	Depositor
Cell constants a, b, c, α , β , γ	125.05Å 134.58Å 151.02Å 86.99° 69.70° 88.16°	Depositor
Resolution (Å)	49.76 – 3.00 49.76 – 3.00	Depositor EDS
% Data completeness (in resolution range)	96.3 (49.76-3.00) 96.3 (49.76-3.00)	Depositor EDS
R_{merge}	0.04	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.13 (at 3.01Å)	Xtrriage
Refinement program	PHENIX (PHENIX.REFINE)	Depositor
R, R_{free}	0.242 , 0.287 0.241 , 0.284	Depositor DCC
R_{free} test set	3539 reflections (2.00%)	wwPDB-VP
Wilson B-factor (Å ²)	88.4	Xtrriage
Anisotropy	0.217	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.27 , 66.2	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.92	EDS
Total number of atoms	46628	wwPDB-VP
Average B, all atoms (Å ²)	100.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.15% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

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

5 Model quality

5.1 Standard geometry

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

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	A	0.30	0/7789	0.50	0/10588
1	B	0.30	0/7971	0.46	0/10833
1	C	0.27	0/7971	0.45	0/10833
1	D	0.30	0/7735	0.50	0/10510
1	E	0.29	0/7851	0.47	0/10666
1	F	0.28	0/7971	0.45	0/10833
All	All	0.29	0/47288	0.47	0/64263

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	7634	0	7765	689	0
1	B	7812	0	7944	541	0
1	C	7812	0	7944	509	0
1	D	7582	0	7716	665	0
1	E	7696	0	7832	528	0
1	F	7812	0	7944	509	0
2	A	35	0	46	10	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	B	105	0	138	17	0
2	D	35	0	46	5	0
2	E	105	0	138	22	0
All	All	46628	0	47513	3338	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 35.

All (3338) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:76:ARG:HG2	1:A:76:ARG:HH11	1.09	1.13
1:B:43:ILE:HG21	1:B:107:VAL:HG11	1.30	1.12
1:A:375:VAL:HG21	1:A:405:LEU:HG	1.33	1.11
1:C:699:ARG:HG3	1:C:699:ARG:HH11	1.09	1.10
1:F:699:ARG:HH11	1:F:699:ARG:HG3	1.08	1.09
1:D:76:ARG:HG2	1:D:76:ARG:HH11	1.11	1.08
1:E:43:ILE:HG21	1:E:107:VAL:HG11	1.32	1.07
1:E:882:VAL:HG11	2:E:2032:LMT:H101	1.38	1.05
1:D:375:VAL:HG21	1:D:405:LEU:HG	1.33	1.05
1:B:410:ILE:HD11	1:B:976:THR:HG22	1.43	1.01
1:B:817:ARG:HG3	1:B:817:ARG:HH11	1.23	1.00
1:A:140:VAL:HG23	1:A:289:ILE:HG23	1.44	0.99
1:E:817:ARG:HH11	1:E:817:ARG:HG3	1.25	0.99
1:D:140:VAL:HG23	1:D:289:ILE:HG23	1.43	0.98
1:E:162:ILE:HG22	1:E:313:LEU:HD13	1.45	0.98
1:D:251:LEU:HD11	1:D:262:LEU:HB2	1.45	0.98
1:E:410:ILE:HD11	1:E:976:THR:HG22	1.43	0.97
1:F:485:ALA:HA	1:F:489:THR:HG23	1.45	0.97
1:E:234:ILE:HG22	1:F:726:TYR:HB2	1.45	0.96
1:A:568:ASP:HB3	1:A:634:TRP:CZ3	2.01	0.96
1:B:162:ILE:HG22	1:B:313:LEU:HD13	1.47	0.96
1:C:485:ALA:HA	1:C:489:THR:HG23	1.48	0.95
1:D:568:ASP:HB3	1:D:634:TRP:CZ3	2.00	0.95
1:E:442:LEU:HD23	1:E:445:ILE:HD11	1.51	0.93
1:A:56:THR:O	1:A:60:THR:HB	1.69	0.93
1:F:577:GLN:HB3	1:F:662:MET:HB2	1.50	0.92
1:C:577:GLN:HB3	1:C:662:MET:HB2	1.52	0.92
1:D:156:ASN:HD22	1:D:182:TYR:H	0.92	0.92
1:A:730:ILE:HD11	1:C:237:LYS:HD3	1.50	0.92
1:D:470:PHE:O	1:D:473:THR:HG22	1.70	0.92

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:318:PRO:HD2	1:A:321:MET:HE2	1.51	0.91
1:E:966:CYS:SG	1:E:1021:PRO:HG3	2.11	0.91
1:E:878:LEU:HD13	2:E:2032:LMT:H31	1.52	0.91
1:A:360:GLN:HE22	1:A:517:ASN:HD21	1.18	0.91
1:A:757:TYR:HE2	1:A:769:ARG:HB3	1.35	0.91
1:B:966:CYS:SG	1:B:1021:PRO:HG3	2.11	0.91
1:D:56:THR:O	1:D:60:THR:HB	1.69	0.91
1:B:442:LEU:HD23	1:B:445:ILE:HD11	1.53	0.91
1:E:435:MET:O	1:E:439:GLN:HB2	1.71	0.90
1:B:527:TYR:CD2	1:B:970:LEU:HD12	2.07	0.90
1:E:527:TYR:CD2	1:E:970:LEU:HD12	2.06	0.90
1:B:435:MET:O	1:B:439:GLN:HB2	1.72	0.89
2:B:2032:LMT:H5B	2:B:2032:LMT:H6D	1.53	0.89
1:A:253:VAL:HG12	1:A:259:GLN:HB3	1.52	0.89
1:D:569:GLN:H	1:D:634:TRP:HH2	1.16	0.89
1:A:569:GLN:H	1:A:634:TRP:HH2	1.17	0.88
1:D:76:ARG:HG2	1:D:76:ARG:NH1	1.85	0.88
1:D:680:PHE:HD1	1:D:828:GLY:O	1.57	0.88
1:A:242:THR:HG22	1:A:245:GLN:HE21	1.39	0.88
1:A:966:CYS:SG	1:A:1021:PRO:HG3	2.14	0.88
1:D:226:LYS:H	1:D:226:LYS:HD2	1.39	0.87
1:D:156:ASN:ND2	1:D:182:TYR:H	1.73	0.87
2:A:2026:LMT:H122	2:A:2026:LMT:H82	1.54	0.87
1:E:900:VAL:HG11	1:E:942:ILE:HG23	1.55	0.87
1:A:470:PHE:O	1:A:473:THR:HG22	1.75	0.87
1:D:966:CYS:SG	1:D:1021:PRO:HG3	2.15	0.87
1:A:733:GLU:HG2	1:C:250:LEU:HD11	1.56	0.86
1:D:730:ILE:HD11	1:F:237:LYS:HD3	1.56	0.86
1:D:757:TYR:HE2	1:D:769:ARG:HB3	1.38	0.86
1:E:125:GLN:NE2	1:E:769:ARG:HH12	1.73	0.86
1:A:226:LYS:H	1:A:226:LYS:HD2	1.40	0.86
1:A:831:ALA:HB3	1:A:834:LEU:HD22	1.56	0.86
1:E:560:PRO:HB2	1:E:921:SER:HB3	1.57	0.86
1:B:900:VAL:HG11	1:B:942:ILE:HG23	1.55	0.86
1:A:76:ARG:HG2	1:A:76:ARG:NH1	1.82	0.86
1:B:560:PRO:HB2	1:B:921:SER:HB3	1.57	0.86
1:A:498:LYS:H	1:A:499:PRO:CD	1.89	0.85
1:D:360:GLN:HE22	1:D:517:ASN:HD21	1.19	0.85
1:C:699:ARG:HG3	1:C:699:ARG:NH1	1.90	0.85
1:F:38:ILE:HG13	1:F:38:ILE:O	1.75	0.85
1:F:936:LEU:HD13	1:F:1009:MET:HG2	1.58	0.85

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:699:ARG:HG3	1:F:699:ARG:NH1	1.89	0.85
1:D:731:ASP:HB3	1:D:734:LYS:HB2	1.58	0.85
1:C:166:LEU:HD12	1:C:289:ILE:HD12	1.57	0.85
1:D:498:LYS:H	1:D:499:PRO:CD	1.88	0.85
1:B:125:GLN:NE2	1:B:769:ARG:HH12	1.75	0.85
1:C:38:ILE:HG13	1:C:38:ILE:O	1.76	0.85
1:C:936:LEU:HD13	1:C:1009:MET:HG2	1.58	0.84
1:A:706:ALA:HB2	1:A:846:ILE:HD13	1.59	0.84
1:B:247:GLU:HB3	1:B:263:LYS:HG2	1.57	0.84
1:A:680:PHE:HD1	1:A:828:GLY:O	1.58	0.84
2:E:2033:LMT:H62	2:E:2033:LMT:H122	1.57	0.84
1:B:234:ILE:HG22	1:C:726:TYR:HB2	1.60	0.84
1:E:247:GLU:HB3	1:E:263:LYS:HG2	1.59	0.84
1:A:56:THR:HG22	1:C:213:GLN:HB3	1.57	0.84
1:F:699:ARG:HH11	1:F:699:ARG:CG	1.91	0.83
1:E:520:PHE:HA	1:E:523:THR:HG22	1.60	0.83
1:A:731:ASP:HB3	1:A:734:LYS:HB2	1.58	0.83
1:F:472:ILE:H	1:F:472:ILE:HD13	1.43	0.83
1:E:158:ILE:HG22	1:E:162:ILE:HD11	1.61	0.83
1:B:520:PHE:HA	1:B:523:THR:HG22	1.61	0.83
1:F:166:LEU:HD12	1:F:289:ILE:HD12	1.60	0.83
1:D:156:ASN:HD22	1:D:182:TYR:N	1.76	0.82
1:D:242:THR:HG22	1:D:245:GLN:HE21	1.41	0.82
1:A:540:PRO:O	1:A:544:ILE:HG22	1.79	0.82
1:B:568:ASP:HB3	1:B:634:TRP:HZ3	1.44	0.82
1:E:428:ARG:HB3	1:E:432:ARG:HH21	1.42	0.82
1:C:159:VAL:HG22	1:C:177:VAL:HG11	1.59	0.82
1:D:540:PRO:O	1:D:544:ILE:HG22	1.80	0.82
1:F:241:GLN:HG2	1:F:762:ILE:HG13	1.60	0.82
1:C:241:GLN:HG2	1:C:762:ILE:HG13	1.59	0.82
1:A:76:ARG:HH11	1:A:76:ARG:CG	1.92	0.82
1:C:138:MET:HB2	1:C:328:ASP:HA	1.62	0.81
1:D:680:PHE:CE2	1:D:858:TRP:HZ3	1.96	0.81
1:A:808:TRP:CZ3	1:D:708:GLN:HB3	2.15	0.81
1:D:228:GLN:HE21	1:D:230:LEU:H	1.26	0.81
1:D:733:GLU:HG2	1:F:250:LEU:HD11	1.60	0.81
1:B:687:GLN:HE22	1:B:821:VAL:HG21	1.45	0.81
1:E:568:ASP:HB3	1:E:634:TRP:HZ3	1.44	0.81
1:A:699:ARG:NH2	1:A:824:MET:HG3	1.94	0.81
1:B:428:ARG:HB3	1:B:432:ARG:HH21	1.46	0.81
1:A:228:GLN:HE21	1:A:230:LEU:H	1.28	0.81

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:544:ILE:HG12	1:C:1019:TRP:HH2	1.44	0.81
1:D:699:ARG:NH2	1:D:824:MET:HG3	1.95	0.81
1:B:158:ILE:HD11	1:B:177:VAL:HG13	1.63	0.80
1:B:367:ILE:HB	1:B:368:PRO:HD3	1.63	0.80
1:E:158:ILE:HD11	1:E:177:VAL:HG13	1.63	0.80
1:F:159:VAL:HG22	1:F:177:VAL:HG11	1.62	0.80
1:B:969:ARG:O	1:B:972:PRO:HD2	1.81	0.80
1:F:46:GLN:HG2	1:F:89:THR:HB	1.63	0.80
1:C:362:PHE:O	1:C:366:LEU:HB2	1.81	0.80
1:F:652:GLN:NE2	1:F:665:ALA:H	1.80	0.80
1:F:138:MET:HB2	1:F:328:ASP:HA	1.62	0.80
1:E:472:ILE:HD11	2:E:2031:LMT:H61	1.63	0.80
1:F:362:PHE:O	1:F:366:LEU:HB2	1.81	0.80
1:B:938:ALA:O	1:B:942:ILE:HG12	1.82	0.80
1:D:262:LEU:HD21	1:D:265:VAL:HB	1.64	0.80
1:E:213:GLN:HG3	1:E:239:ARG:HG3	1.62	0.80
1:F:544:ILE:HG12	1:F:1019:TRP:HH2	1.46	0.80
1:F:574:ALA:HB3	1:F:627:ALA:HB3	1.64	0.80
1:A:419:VAL:HG23	1:A:430:ALA:HB1	1.62	0.79
1:F:928:VAL:O	1:F:932:THR:HG22	1.82	0.79
1:C:928:VAL:O	1:C:932:THR:HG22	1.81	0.79
1:B:213:GLN:HG3	1:B:239:ARG:HG3	1.62	0.79
1:C:574:ALA:HB3	1:C:627:ALA:HB3	1.62	0.79
1:A:234:ILE:HG22	1:B:726:TYR:HB3	1.65	0.79
1:B:415:ASN:HD22	1:B:434:SER:HB2	1.47	0.79
1:B:534:ILE:HG22	1:B:1022:LEU:HD23	1.64	0.79
1:B:703:LEU:HD11	1:B:717:PRO:HG3	1.64	0.79
1:C:472:ILE:H	1:C:472:ILE:HD13	1.46	0.79
2:A:2026:LMT:H5B	2:A:2026:LMT:H6D	1.62	0.79
1:E:938:ALA:O	1:E:942:ILE:HG12	1.82	0.79
1:C:652:GLN:NE2	1:C:665:ALA:H	1.79	0.79
2:E:2031:LMT:H5B	2:E:2031:LMT:H6E	1.65	0.79
1:B:428:ARG:H	1:B:428:ARG:HD2	1.49	0.78
1:D:352:PHE:HD1	1:D:369:THR:HG21	1.47	0.78
1:F:43:ILE:HD13	1:F:104:GLN:HA	1.65	0.78
1:A:757:TYR:CE2	1:A:769:ARG:HB3	2.19	0.78
1:E:583:SER:O	1:E:587:THR:HG22	1.84	0.78
1:A:170:LYS:HA	1:A:170:LYS:HE3	1.63	0.78
1:A:170:LYS:NZ	1:B:74:ASN:H	1.81	0.78
1:D:634:TRP:H	1:D:634:TRP:HD1	1.31	0.78
1:E:534:ILE:HG22	1:E:1022:LEU:HD23	1.63	0.78

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:46:GLN:HG2	1:C:89:THR:HB	1.63	0.78
1:D:76:ARG:HH11	1:D:76:ARG:CG	1.95	0.78
1:D:170:LYS:HA	1:D:170:LYS:HE3	1.65	0.78
1:D:170:LYS:NZ	1:E:74:ASN:H	1.80	0.78
1:A:938:ALA:O	1:A:942:ILE:HG12	1.84	0.78
1:D:56:THR:HG22	1:F:213:GLN:HB3	1.65	0.78
1:A:800:PHE:HD2	1:A:804:ALA:HB2	1.48	0.78
1:B:158:ILE:HG22	1:B:162:ILE:HD11	1.64	0.78
2:B:2032:LMT:H6D	2:B:2032:LMT:C5B	2.13	0.78
1:D:800:PHE:HD2	1:D:804:ALA:HB2	1.47	0.78
1:E:969:ARG:O	1:E:972:PRO:HD2	1.84	0.78
1:A:352:PHE:HD1	1:A:369:THR:HG21	1.48	0.77
1:A:237:LYS:HD2	1:B:730:ILE:HD11	1.66	0.77
1:B:20:MET:HE2	1:B:374:VAL:HG23	1.66	0.77
1:D:234:ILE:HG22	1:E:726:TYR:HB3	1.65	0.77
1:E:367:ILE:HB	1:E:368:PRO:HD3	1.65	0.77
1:B:125:GLN:HE22	1:B:769:ARG:HH12	1.32	0.77
1:C:938:ALA:O	1:C:942:ILE:HG23	1.84	0.77
1:D:616:ASN:ND2	1:D:626:MET:HB3	2.00	0.77
1:F:485:ALA:HA	1:F:489:THR:CG2	2.14	0.77
1:A:710:PRO:O	1:A:831:ALA:HB2	1.83	0.77
1:D:827:LEU:HD12	1:D:827:LEU:O	1.84	0.77
1:E:45:VAL:HB	1:E:90:ILE:HG23	1.67	0.77
1:E:703:LEU:HD11	1:E:717:PRO:HG3	1.65	0.77
1:A:634:TRP:H	1:A:634:TRP:HD1	1.32	0.77
1:D:90:ILE:HD12	1:D:91:THR:N	2.00	0.77
1:A:534:ILE:O	1:A:538:ARG:HB3	1.85	0.76
1:B:583:SER:O	1:B:587:THR:HG22	1.85	0.76
1:C:43:ILE:HD13	1:C:104:GLN:HA	1.66	0.76
1:E:891:TYR:CG	1:E:896:ILE:HD11	2.20	0.76
1:A:453:PHE:CD2	1:A:474:ILE:HD11	2.21	0.76
1:E:125:GLN:HE22	1:E:769:ARG:HH12	1.31	0.76
1:F:415:ASN:HD22	1:F:434:SER:HB3	1.50	0.76
1:A:708:GLN:HG2	1:D:809:GLU:HB3	1.66	0.76
1:B:817:ARG:HG3	1:B:817:ARG:NH1	1.99	0.76
1:E:614:GLY:HA2	1:E:621:GLY:O	1.86	0.76
1:E:751:ILE:HG21	1:E:772:LEU:HD13	1.67	0.76
1:A:616:ASN:ND2	1:A:626:MET:HB3	2.01	0.76
1:B:789:TYR:CE2	1:B:799:PRO:HG3	2.21	0.76
1:D:938:ALA:O	1:D:942:ILE:HG12	1.85	0.76
1:C:415:ASN:HD22	1:C:434:SER:HB3	1.49	0.76

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:980:PHE:CD2	1:F:1009:MET:HG3	2.21	0.76
1:D:237:LYS:HD2	1:E:730:ILE:HD11	1.67	0.75
1:D:419:VAL:HG23	1:D:430:ALA:HB1	1.66	0.75
1:E:789:TYR:CE2	1:E:799:PRO:HG3	2.21	0.75
1:A:578:THR:CG2	1:A:579:PRO:HD2	2.17	0.75
1:B:753:TRP:HZ2	1:B:785:LEU:HA	1.51	0.75
1:D:534:ILE:O	1:D:538:ARG:HB3	1.86	0.75
1:A:90:ILE:HD12	1:A:91:THR:N	2.01	0.75
1:C:524:THR:HG22	1:C:970:LEU:HD12	1.68	0.75
1:E:293:LEU:HD23	1:E:302:THR:HG21	1.67	0.75
1:A:156:ASN:HD21	1:A:768:LYS:HZ1	1.33	0.75
1:C:485:ALA:HA	1:C:489:THR:CG2	2.16	0.75
1:F:524:THR:HG22	1:F:970:LEU:HD12	1.68	0.75
1:E:428:ARG:H	1:E:428:ARG:HD2	1.51	0.75
1:E:964:GLU:O	1:E:968:MET:HG3	1.86	0.75
1:D:757:TYR:CE2	1:D:769:ARG:HB3	2.21	0.75
1:B:190:PRO:HG3	1:B:788:TRP:CZ2	2.22	0.75
1:C:699:ARG:HH11	1:C:699:ARG:CG	1.93	0.75
1:D:453:PHE:CD2	1:D:474:ILE:HD11	2.21	0.75
1:A:680:PHE:CE2	1:A:858:TRP:HZ3	2.04	0.75
1:C:980:PHE:CD2	1:C:1009:MET:HG3	2.22	0.75
1:B:278:ASN:HB2	1:B:613:THR:HG22	1.69	0.74
1:F:938:ALA:O	1:F:942:ILE:HG23	1.84	0.74
1:A:827:LEU:HD12	1:A:827:LEU:O	1.87	0.74
1:F:943:LEU:HD13	1:F:973:ILE:HG22	1.68	0.74
1:A:318:PRO:HD2	1:A:321:MET:CE	2.17	0.74
1:A:682:LEU:HD21	1:A:856:TYR:HB2	1.67	0.74
1:A:723:GLU:HG3	1:A:813:PRO:HG3	1.69	0.74
1:D:682:LEU:HD21	1:D:856:TYR:HB2	1.69	0.74
1:B:602:GLU:OE2	1:B:650:ARG:HD2	1.88	0.74
1:B:751:ILE:HG21	1:B:772:LEU:HD13	1.68	0.74
1:E:753:TRP:HZ2	1:E:785:LEU:HA	1.52	0.74
1:F:566:ASP:HB3	1:F:645:PHE:CZ	2.23	0.74
1:B:470:PHE:O	1:B:474:ILE:HG23	1.88	0.74
1:C:943:LEU:HD13	1:C:973:ILE:HG22	1.70	0.74
1:A:671:VAL:HG13	1:A:672:LEU:N	2.02	0.74
1:B:293:LEU:HD23	1:B:302:THR:HG21	1.70	0.74
1:B:614:GLY:HA2	1:B:621:GLY:O	1.86	0.74
1:D:918:ARG:HH21	1:D:1003:THR:HB	1.52	0.74
1:F:548:ILE:HD11	1:F:906:LEU:HD23	1.69	0.74
1:F:578:THR:HG22	1:F:623:SER:HB2	1.70	0.74

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:45:VAL:HB	1:B:90:ILE:HG23	1.68	0.73
1:F:980:PHE:HD2	1:F:1009:MET:HG3	1.52	0.73
1:C:544:ILE:HG12	1:C:1019:TRP:CH2	2.23	0.73
1:D:637:ARG:N	1:D:638:PRO:HD3	2.02	0.73
1:E:186:ILE:HD11	1:E:772:LEU:HG	1.69	0.73
1:E:470:PHE:O	1:E:474:ILE:HG23	1.88	0.73
1:F:563:PHE:O	1:F:923:ASP:HB2	1.89	0.73
1:B:964:GLU:O	1:B:968:MET:HG3	1.88	0.73
1:C:434:SER:O	1:C:438:ILE:HG12	1.87	0.73
1:C:980:PHE:HD2	1:C:1009:MET:HG3	1.52	0.73
1:A:259:GLN:H	1:A:259:GLN:HE21	1.36	0.73
1:A:448:VAL:HG22	1:A:886:CYS:HB3	1.70	0.73
1:A:527:TYR:O	1:A:531:VAL:HG23	1.87	0.73
1:A:637:ARG:N	1:A:638:PRO:HD3	2.03	0.73
1:D:498:LYS:H	1:D:499:PRO:HD2	1.53	0.73
1:E:681:ASP:HB3	1:E:827:LEU:HD13	1.69	0.73
1:A:723:GLU:CG	1:A:813:PRO:HG3	2.19	0.73
1:B:58:GLN:O	1:B:63:GLN:HG3	1.89	0.73
1:E:58:GLN:O	1:E:63:GLN:HG3	1.88	0.73
1:E:190:PRO:HG3	1:E:788:TRP:CZ2	2.24	0.73
1:D:319:GLN:CD	1:D:319:GLN:H	1.91	0.73
1:D:405:LEU:HD22	1:D:406:VAL:N	2.03	0.73
1:E:415:ASN:HD22	1:E:434:SER:HB2	1.52	0.73
1:A:451:ALA:HB1	1:A:882:VAL:HG12	1.69	0.73
1:D:742:LEU:H	1:D:742:LEU:HD12	1.54	0.73
1:E:451:ALA:O	1:E:879:SER:HB2	1.88	0.73
1:F:184:MET:HB2	1:F:770:VAL:HG12	1.71	0.73
1:D:451:ALA:HB1	1:D:882:VAL:HG12	1.71	0.73
1:E:278:ASN:HB2	1:E:613:THR:HG22	1.70	0.73
1:B:451:ALA:O	1:B:879:SER:HB2	1.89	0.72
1:C:566:ASP:HB3	1:C:645:PHE:CZ	2.23	0.72
1:D:437:GLN:O	1:D:438:ILE:HG13	1.88	0.72
1:D:574:ALA:HB3	1:D:627:ALA:HB3	1.71	0.72
1:E:78:ILE:HD11	1:E:90:ILE:HD11	1.71	0.72
1:F:434:SER:O	1:F:438:ILE:HG12	1.88	0.72
1:D:680:PHE:CE2	1:D:858:TRP:CZ3	2.77	0.72
1:A:708:GLN:HG3	1:D:807:LYS:HE2	1.72	0.72
1:B:676:ASN:HD21	1:B:827:LEU:HD12	1.52	0.72
1:C:548:ILE:HD11	1:C:906:LEU:HD23	1.69	0.72
1:F:753:TRP:CZ2	1:F:785:LEU:HD23	2.24	0.72
1:C:563:PHE:O	1:C:923:ASP:HB2	1.88	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:448:VAL:HG22	1:D:886:CYS:HB3	1.71	0.72
1:D:578:THR:CG2	1:D:579:PRO:HD2	2.18	0.72
1:A:437:GLN:O	1:A:438:ILE:HG13	1.90	0.72
1:B:615:PHE:HE1	2:B:2033:LMT:H111	1.55	0.72
1:C:291:ILE:HD12	1:C:306:ILE:HD12	1.72	0.72
1:C:399:VAL:O	1:C:402:ILE:HG13	1.90	0.72
1:A:742:LEU:H	1:A:742:LEU:HD12	1.55	0.72
1:A:213:GLN:HG3	1:B:56:THR:HG23	1.71	0.72
1:A:498:LYS:H	1:A:499:PRO:HD2	1.53	0.72
1:B:186:ILE:HD11	1:B:772:LEU:HG	1.70	0.72
1:B:229:GLN:HA	1:C:583:SER:HB3	1.72	0.72
1:D:156:ASN:HA	1:D:181:GLN:HA	1.72	0.72
1:C:133:VAL:HG12	1:C:135:ASN:H	1.55	0.72
1:E:940:ASN:O	1:E:944:ILE:HG23	1.90	0.72
1:B:78:ILE:HD11	1:B:90:ILE:HD11	1.70	0.71
1:A:189:ASP:O	1:A:193:LEU:HD23	1.90	0.71
1:A:273:GLN:CD	1:A:769:ARG:HD2	2.11	0.71
2:B:2031:LMT:H6E	2:B:2031:LMT:O5B	1.91	0.71
1:F:544:ILE:HG12	1:F:1019:TRP:CH2	2.24	0.71
1:A:405:LEU:HD22	1:A:406:VAL:N	2.06	0.71
1:C:138:MET:SD	1:C:291:ILE:HD11	2.30	0.71
1:D:233:THR:HG23	1:E:725:GLN:HG2	1.72	0.71
1:F:580:PRO:HB3	1:F:723:GLU:HG2	1.71	0.71
1:C:184:MET:HB2	1:C:770:VAL:HG12	1.72	0.71
1:C:298:ASN:HB3	1:C:301:ASP:HB2	1.73	0.71
1:C:572:LEU:HD23	1:C:573:PHE:H	1.55	0.71
1:C:753:TRP:CZ2	1:C:785:LEU:HD23	2.25	0.71
1:A:918:ARG:HH21	1:A:1003:THR:HB	1.53	0.71
1:B:847:VAL:HG11	1:B:856:TYR:CD1	2.26	0.71
1:B:891:TYR:CG	1:B:896:ILE:HD11	2.25	0.71
1:C:364:ALA:O	1:C:367:ILE:HG12	1.91	0.71
1:D:273:GLN:CD	1:D:769:ARG:HD2	2.11	0.71
1:D:723:GLU:CG	1:D:813:PRO:HG3	2.21	0.71
1:E:228:GLN:HG2	1:F:583:SER:HB2	1.73	0.71
1:B:940:ASN:O	1:B:944:ILE:HG23	1.91	0.71
1:D:213:GLN:HG3	1:E:56:THR:HG23	1.71	0.71
1:E:414:GLU:HG2	1:E:972:PRO:HG3	1.73	0.71
1:E:847:VAL:HG11	1:E:856:TYR:CD1	2.26	0.71
1:F:133:VAL:HG12	1:F:135:ASN:H	1.56	0.71
1:F:291:ILE:HD12	1:F:306:ILE:HD12	1.73	0.71
1:C:578:THR:HG22	1:C:623:SER:HB2	1.71	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:985:VAL:HG23	1:C:986:PRO:HD3	1.73	0.70
1:D:723:GLU:HG3	1:D:813:PRO:HG3	1.72	0.70
1:F:364:ALA:O	1:F:367:ILE:HG12	1.91	0.70
1:F:399:VAL:O	1:F:402:ILE:HG13	1.91	0.70
1:E:682:LEU:HD11	1:E:856:TYR:HB2	1.72	0.70
1:E:821:VAL:HG12	1:E:822:PRO:HD2	1.73	0.70
1:B:542:LEU:HG	1:B:1022:LEU:HD11	1.73	0.70
1:B:821:VAL:HG12	1:B:822:PRO:HD2	1.73	0.70
1:E:602:GLU:OE2	1:E:650:ARG:HD2	1.90	0.70
1:A:17:LEU:HD21	2:A:2026:LMT:H61	1.73	0.70
1:B:38:ILE:O	1:B:462:SER:HB3	1.92	0.70
1:A:233:THR:HG23	1:B:725:GLN:HG2	1.72	0.70
1:A:532:ALA:O	1:A:534:ILE:N	2.25	0.70
1:A:535:LEU:CD2	1:A:959:VAL:HG13	2.21	0.70
1:A:671:VAL:HG13	1:A:672:LEU:H	1.57	0.70
1:B:215:SER:HB2	1:C:750:SER:HB2	1.73	0.70
1:C:542:LEU:HD21	1:C:1022:LEU:HD21	1.72	0.70
1:D:32:VAL:HG11	1:D:337:ILE:HD13	1.74	0.70
1:E:987:LEU:HD22	1:E:998:GLN:HB3	1.74	0.70
1:F:298:ASN:HB3	1:F:301:ASP:HB2	1.73	0.70
1:C:364:ALA:HA	1:C:367:ILE:HD11	1.74	0.70
1:D:928:VAL:O	1:D:932:THR:HG23	1.91	0.70
1:E:142:VAL:HG11	1:E:158:ILE:HG21	1.74	0.70
1:D:17:LEU:HD21	2:D:2026:LMT:H52	1.74	0.70
1:F:364:ALA:HA	1:F:367:ILE:HD11	1.72	0.70
1:B:4:PHE:O	1:B:8:ARG:HG3	1.92	0.70
1:B:560:PRO:HB2	1:B:921:SER:CB	2.22	0.70
1:C:47:VAL:HB	1:C:127:ILE:HG23	1.74	0.70
1:C:580:PRO:HB3	1:C:723:GLU:HG2	1.72	0.70
1:D:535:LEU:CD2	1:D:959:VAL:HG13	2.22	0.70
1:F:572:LEU:HD23	1:F:573:PHE:H	1.57	0.70
1:D:203:VAL:HG12	1:D:207:ILE:HD11	1.74	0.69
1:F:542:LEU:HD21	1:F:1022:LEU:HD21	1.74	0.69
1:B:142:VAL:HG11	1:B:158:ILE:HG21	1.73	0.69
1:B:987:LEU:HD22	1:B:998:GLN:HB3	1.74	0.69
1:D:532:ALA:O	1:D:534:ILE:N	2.25	0.69
1:E:20:MET:HE2	1:E:374:VAL:HG23	1.72	0.69
1:F:472:ILE:HD13	1:F:472:ILE:N	2.07	0.69
1:A:680:PHE:CE2	1:A:858:TRP:CZ3	2.80	0.69
1:B:929:GLY:O	1:B:932:THR:HG22	1.92	0.69
1:D:780:MET:HE3	1:F:224:ALA:HA	1.73	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:47:VAL:HG12	1:F:88:MET:HE3	1.74	0.69
1:A:32:VAL:HG11	1:A:337:ILE:HD13	1.75	0.69
1:E:38:ILE:O	1:E:462:SER:HB3	1.93	0.69
1:A:574:ALA:HB3	1:A:627:ALA:HB3	1.75	0.69
1:A:928:VAL:O	1:A:932:THR:HG23	1.91	0.69
1:B:402:ILE:HA	1:B:405:LEU:HB2	1.74	0.69
2:B:2033:LMT:H62	2:B:2033:LMT:H122	1.73	0.69
1:D:224:ALA:HB1	1:E:780:MET:HE1	1.73	0.69
1:A:545:TYR:HB2	1:A:1019:TRP:CZ3	2.28	0.69
1:D:684:LEU:O	1:D:823:ALA:HB1	1.93	0.69
1:D:724:PRO:HA	1:D:810:TYR:HB2	1.75	0.69
1:D:904:VAL:HB	1:D:905:PRO:HD3	1.73	0.69
1:E:133:VAL:HG23	1:E:135:ASN:OD1	1.93	0.69
1:E:971:ARG:HB3	1:E:972:PRO:HD3	1.75	0.69
1:F:910:GLY:HA3	1:F:1011:THR:CG2	2.23	0.69
1:A:568:ASP:HB3	1:A:634:TRP:HZ3	1.55	0.69
1:C:561:THR:HG23	1:C:837:GLY:HA3	1.75	0.69
1:C:910:GLY:HA3	1:C:1011:THR:CG2	2.22	0.69
1:D:568:ASP:HB3	1:D:634:TRP:HZ3	1.54	0.69
1:E:4:PHE:O	1:E:8:ARG:HG3	1.92	0.69
1:E:402:ILE:HA	1:E:405:LEU:HB2	1.75	0.69
1:E:560:PRO:HB2	1:E:921:SER:CB	2.21	0.69
1:E:742:LEU:O	1:E:745:ILE:HG22	1.92	0.69
1:A:538:ARG:HA	1:A:541:TYR:HD1	1.57	0.69
1:C:520:PHE:HA	1:C:523:THR:HG22	1.75	0.69
1:D:194:ASN:ND2	1:D:797:MET:HG2	2.08	0.69
1:D:680:PHE:HE2	1:D:858:TRP:CZ3	2.09	0.69
2:E:2032:LMT:H5B	2:E:2032:LMT:H6D	1.75	0.69
1:D:300:LEU:HD21	1:D:333:VAL:HB	1.74	0.69
1:F:47:VAL:HB	1:F:127:ILE:HG23	1.73	0.69
1:F:96:GLN:NE2	1:F:462:SER:HB3	2.07	0.69
1:A:634:TRP:N	1:A:634:TRP:CD1	2.62	0.68
1:D:527:TYR:O	1:D:531:VAL:HG23	1.93	0.68
1:A:724:PRO:HA	1:A:810:TYR:HB2	1.73	0.68
1:E:88:MET:HG2	1:E:89:THR:N	2.08	0.68
1:E:158:ILE:HA	1:E:162:ILE:HG12	1.76	0.68
1:B:414:GLU:HG2	1:B:972:PRO:HG3	1.74	0.68
1:C:472:ILE:HD13	1:C:472:ILE:N	2.09	0.68
1:C:830:PRO:HB3	1:C:839:ALA:HB2	1.73	0.68
1:D:634:TRP:CD1	1:D:634:TRP:N	2.61	0.68
1:E:428:ARG:CB	1:E:432:ARG:HH21	2.05	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:818:TYR:HH	1:F:825:GLU:HB2	1.59	0.68
1:F:830:PRO:HB3	1:F:839:ALA:HB2	1.74	0.68
1:C:1016:ALA:O	1:C:1020:VAL:HG23	1.94	0.68
1:E:442:LEU:CD2	1:E:445:ILE:HD11	2.22	0.68
1:E:817:ARG:HG3	1:E:817:ARG:NH1	2.01	0.68
1:F:966:CYS:SG	1:F:1021:PRO:HG3	2.34	0.68
1:F:985:VAL:HG23	1:F:986:PRO:HD3	1.74	0.68
1:A:280:GLN:HB2	1:A:284:SER:O	1.94	0.68
1:D:538:ARG:HA	1:D:541:TYR:HD1	1.58	0.68
1:E:929:GLY:O	1:E:932:THR:HG22	1.92	0.68
1:F:138:MET:SD	1:F:291:ILE:HD11	2.33	0.68
1:F:682:LEU:HD11	1:F:843:VAL:HG11	1.75	0.68
1:A:224:ALA:HB1	1:B:780:MET:HE1	1.76	0.68
2:A:2026:LMT:O2'	2:A:2026:LMT:H11	1.93	0.68
2:B:2031:LMT:H6E	2:B:2031:LMT:C5B	2.23	0.68
1:C:545:TYR:HB2	1:C:1019:TRP:CZ3	2.29	0.68
1:B:959:VAL:O	1:B:963:ILE:HG22	1.94	0.68
1:A:47:VAL:HG22	1:A:48:SER:H	1.59	0.68
1:D:545:TYR:HB2	1:D:1019:TRP:CZ3	2.28	0.68
1:E:47:VAL:HG13	1:E:127:ILE:HA	1.75	0.68
1:E:637:ARG:HB2	1:E:642:ASN:HB3	1.76	0.68
1:A:578:THR:HG23	1:A:579:PRO:HD2	1.76	0.67
1:B:742:LEU:O	1:B:745:ILE:HG22	1.94	0.67
1:F:561:THR:HG23	1:F:837:GLY:HA3	1.74	0.67
1:A:254:ASN:ND2	1:A:258:SER:HB3	2.08	0.67
1:A:300:LEU:HD21	1:A:333:VAL:HB	1.76	0.67
1:A:838:ASP:HA	1:A:842:ALA:HB3	1.77	0.67
1:B:158:ILE:HA	1:B:162:ILE:HG12	1.75	0.67
1:B:228:GLN:HG2	1:C:583:SER:HB2	1.75	0.67
1:F:1016:ALA:O	1:F:1020:VAL:HG23	1.94	0.67
1:A:156:ASN:HD21	1:A:768:LYS:NZ	1.91	0.67
1:A:569:GLN:NE2	1:A:670:SER:HA	2.09	0.67
1:A:904:VAL:HB	1:A:905:PRO:HD3	1.75	0.67
1:D:838:ASP:HA	1:D:842:ALA:HB3	1.76	0.67
1:A:376:LEU:O	1:A:379:THR:HG22	1.95	0.67
1:B:35:TYR:CE1	1:B:392:THR:HG21	2.29	0.67
1:B:88:MET:HG2	1:B:89:THR:N	2.10	0.67
1:B:328:ASP:OD1	1:B:330:THR:HG23	1.95	0.67
1:E:959:VAL:O	1:E:963:ILE:HG22	1.94	0.67
1:C:356:TYR:HD1	1:C:365:THR:HG21	1.59	0.67
1:F:367:ILE:HG12	1:F:368:PRO:HD3	1.77	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:350:LEU:HB3	1:C:982:LEU:HD12	1.76	0.67
1:D:280:GLN:HB2	1:D:284:SER:O	1.94	0.67
1:E:125:GLN:HE22	1:E:769:ARG:NH1	1.92	0.67
1:E:169:THR:HG21	1:E:309:THR:OG1	1.95	0.67
1:F:520:PHE:HA	1:F:523:THR:HG22	1.75	0.67
1:C:554:TRP:O	1:C:557:THR:HG22	1.94	0.67
1:E:186:ILE:HG22	1:E:268:VAL:HG22	1.77	0.67
1:F:356:TYR:HD1	1:F:365:THR:HG21	1.59	0.67
1:F:545:TYR:HB2	1:F:1019:TRP:CZ3	2.30	0.67
1:B:602:GLU:HG3	1:B:650:ARG:NH1	2.10	0.67
1:D:753:TRP:CZ3	1:D:779:ARG:HB3	2.29	0.67
1:A:808:TRP:O	1:D:705:LEU:HD22	1.95	0.67
1:D:523:THR:OG1	1:D:524:THR:N	2.28	0.67
1:A:845:GLU:O	1:A:848:LYS:HB3	1.95	0.66
1:B:712:LEU:HD21	1:B:843:VAL:HG23	1.78	0.66
1:C:682:LEU:HD11	1:C:843:VAL:HG11	1.76	0.66
1:D:189:ASP:O	1:D:193:LEU:HD23	1.95	0.66
1:E:35:TYR:CE1	1:E:392:THR:HG21	2.29	0.66
1:E:542:LEU:HG	1:E:1022:LEU:HD11	1.75	0.66
1:F:959:VAL:O	1:F:963:ILE:HG23	1.93	0.66
1:A:791:ARG:HB2	1:A:797:MET:HE2	1.77	0.66
1:B:47:VAL:HG13	1:B:127:ILE:HA	1.75	0.66
1:F:350:LEU:HB3	1:F:982:LEU:HD12	1.76	0.66
1:B:428:ARG:CB	1:B:432:ARG:HH21	2.08	0.66
1:F:554:TRP:O	1:F:557:THR:HG22	1.95	0.66
1:B:14:VAL:HG11	1:C:889:ALA:HB2	1.77	0.66
1:B:472:ILE:HD11	2:B:2031:LMT:H61	1.78	0.66
1:C:648:ALA:HB1	1:C:714:ARG:HH12	1.61	0.66
1:C:218:GLN:HA	1:C:234:ILE:HG23	1.75	0.66
1:D:193:LEU:CD2	1:D:265:VAL:HG13	2.26	0.66
1:D:680:PHE:CD1	1:D:828:GLY:O	2.46	0.66
1:D:892:GLU:C	1:F:10:ILE:HD11	2.16	0.66
1:F:43:ILE:HD11	1:F:107:VAL:HB	1.78	0.66
1:A:400:LEU:HD12	1:A:470:PHE:HZ	1.60	0.66
1:A:895:SER:C	1:A:897:PRO:HD2	2.16	0.66
1:B:442:LEU:CD2	1:B:445:ILE:HD11	2.25	0.66
1:C:96:GLN:NE2	1:C:462:SER:HB3	2.10	0.66
1:D:400:LEU:HD12	1:D:470:PHE:HZ	1.60	0.66
1:B:72:ILE:HD11	1:B:75:LEU:HD13	1.76	0.66
1:B:615:PHE:CE1	2:B:2033:LMT:H111	2.31	0.66
1:D:213:GLN:HE21	1:D:239:ARG:HG2	1.61	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:695:LEU:CD1	1:D:699:ARG:HH21	2.08	0.66
1:F:339:GLU:O	1:F:343:THR:HG22	1.95	0.66
1:F:891:TYR:CB	1:F:896:ILE:HD11	2.26	0.66
1:A:254:ASN:HD21	1:A:258:SER:HB3	1.60	0.66
1:A:710:PRO:HD3	1:D:807:LYS:HE3	1.77	0.66
1:A:810:TYR:OH	1:D:701:LYS:HG2	1.96	0.66
2:D:2026:LMT:H6D	2:D:2026:LMT:O5B	1.96	0.66
1:F:372:VAL:HB	1:F:373:PRO:HD3	1.78	0.66
1:A:810:TYR:CE2	1:D:701:LYS:HE3	2.31	0.66
1:B:753:TRP:CZ2	1:B:785:LEU:HG	2.31	0.66
1:D:47:VAL:HG22	1:D:48:SER:H	1.61	0.66
1:B:637:ARG:HB2	1:B:642:ASN:HB3	1.77	0.65
1:C:367:ILE:HG12	1:C:368:PRO:HD3	1.78	0.65
1:D:723:GLU:O	1:D:810:TYR:HB2	1.97	0.65
1:F:447:MET:CE	1:F:886:CYS:HB3	2.26	0.65
1:C:15:ILE:O	1:C:19:ILE:HG23	1.96	0.65
1:E:712:LEU:HD21	1:E:843:VAL:HG23	1.77	0.65
1:A:684:LEU:O	1:A:823:ALA:HB1	1.96	0.65
1:A:753:TRP:CZ3	1:A:779:ARG:HB3	2.30	0.65
1:B:169:THR:HG21	1:B:309:THR:OG1	1.96	0.65
1:B:186:ILE:HG22	1:B:268:VAL:HG22	1.78	0.65
1:D:941:ALA:O	1:D:945:VAL:HG12	1.97	0.65
1:A:213:GLN:HE21	1:A:239:ARG:HG2	1.61	0.65
1:A:563:PHE:O	1:A:564:LEU:HB2	1.97	0.65
1:C:683:PHE:O	1:C:856:TYR:HA	1.97	0.65
1:D:563:PHE:O	1:D:564:LEU:HB2	1.96	0.65
2:E:2033:LMT:H71	2:E:2033:LMT:H111	1.78	0.65
1:A:808:TRP:CH2	1:D:708:GLN:HB3	2.31	0.65
1:C:80:SER:OG	1:C:817:ARG:HB2	1.96	0.65
1:C:247:GLU:HB3	1:C:263:LYS:HG2	1.79	0.65
1:C:447:MET:CE	1:C:886:CYS:HB3	2.26	0.65
1:D:908:VAL:O	1:D:911:ALA:HB3	1.96	0.65
1:E:328:ASP:OD1	1:E:330:THR:HG23	1.95	0.65
1:F:80:SER:OG	1:F:817:ARG:HB2	1.96	0.65
1:A:134:LYS:HD3	1:A:672:LEU:HD12	1.78	0.65
1:A:203:VAL:HG12	1:A:207:ILE:HD11	1.78	0.65
1:C:488:LEU:HD13	1:C:492:LEU:HD11	1.77	0.65
1:C:1011:THR:O	1:C:1015:LEU:HB2	1.97	0.65
1:D:2:SER:O	1:D:6:ILE:HD12	1.96	0.65
1:D:753:TRP:HZ3	1:D:779:ARG:HB3	1.62	0.65
1:C:444:GLY:O	1:C:448:VAL:HG23	1.97	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:445:ILE:HG22	1:C:939:LYS:HG2	1.78	0.65
1:D:578:THR:HG23	1:D:579:PRO:HD2	1.78	0.65
1:D:845:GLU:O	1:D:848:LYS:HB3	1.97	0.65
1:A:695:LEU:CD1	1:A:699:ARG:HH21	2.09	0.65
1:D:241:GLN:HG3	1:D:762:ILE:O	1.96	0.65
1:F:683:PHE:O	1:F:856:TYR:HA	1.97	0.65
1:C:959:VAL:O	1:C:963:ILE:HG23	1.97	0.65
1:E:602:GLU:HG3	1:E:650:ARG:NH1	2.11	0.65
1:D:329:THR:O	1:D:332:VAL:HG12	1.97	0.65
1:A:302:THR:O	1:A:306:ILE:HG23	1.97	0.64
1:A:969:ARG:O	1:A:973:ILE:HG12	1.97	0.64
1:B:125:GLN:HE22	1:B:769:ARG:NH1	1.94	0.64
1:B:391:ASN:HD22	1:B:393:LEU:H	1.45	0.64
1:B:718:ASN:HB2	1:B:827:LEU:HD23	1.79	0.64
1:C:339:GLU:O	1:C:343:THR:HG22	1.96	0.64
1:C:966:CYS:SG	1:C:1021:PRO:HG3	2.36	0.64
1:D:996:GLY:N	1:D:999:HIS:HD2	1.95	0.64
1:E:215:SER:HB2	1:F:750:SER:HB2	1.80	0.64
1:F:648:ALA:HB1	1:F:714:ARG:HH12	1.63	0.64
1:B:478:MET:O	1:B:482:VAL:HG23	1.97	0.64
1:E:757:TYR:CE1	1:E:769:ARG:HG3	2.32	0.64
1:A:893:SER:OG	1:A:896:ILE:HG23	1.97	0.64
1:D:893:SER:OG	1:D:896:ILE:HG23	1.97	0.64
1:F:969:ARG:O	1:F:973:ILE:HG23	1.97	0.64
1:A:157:TYR:OH	1:A:317:MET:HG2	1.96	0.64
1:A:723:GLU:O	1:A:810:TYR:HB2	1.97	0.64
1:A:726:TYR:CZ	1:A:782:PRO:HB3	2.32	0.64
1:C:332:VAL:HG11	1:C:569:GLN:HG2	1.80	0.64
1:D:302:THR:O	1:D:306:ILE:HG23	1.97	0.64
1:D:376:LEU:O	1:D:379:THR:HG22	1.97	0.64
1:F:910:GLY:HA3	1:F:1011:THR:HG21	1.79	0.64
1:C:251:LEU:HD12	1:C:265:VAL:HG21	1.80	0.64
1:E:718:ASN:HB2	1:E:827:LEU:HD23	1.78	0.64
1:A:43:ILE:HG21	1:A:107:VAL:HG11	1.80	0.64
1:A:48:SER:O	1:A:125:GLN:HG2	1.98	0.64
1:B:757:TYR:CE1	1:B:769:ARG:HG3	2.33	0.64
1:C:699:ARG:NE	1:C:824:MET:HG2	2.13	0.64
1:F:683:PHE:CE2	1:F:818:TYR:CZ	2.86	0.64
1:C:818:TYR:HH	1:C:825:GLU:HB2	1.62	0.64
1:C:910:GLY:HA3	1:C:1011:THR:HG21	1.78	0.64
1:F:472:ILE:H	1:F:472:ILE:CD1	2.11	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:488:LEU:HD13	1:F:492:LEU:HD11	1.79	0.64
1:A:134:LYS:HD3	1:A:672:LEU:C	2.18	0.64
1:A:342:LYS:O	1:A:346:GLU:HG3	1.97	0.64
1:A:680:PHE:HE2	1:A:858:TRP:CZ3	2.14	0.64
1:C:43:ILE:HD11	1:C:107:VAL:HB	1.78	0.64
1:D:48:SER:O	1:D:125:GLN:HG2	1.97	0.64
1:E:72:ILE:HD11	1:E:75:LEU:HD13	1.80	0.64
1:E:753:TRP:CZ2	1:E:785:LEU:HG	2.32	0.64
1:A:241:GLN:HG3	1:A:762:ILE:O	1.97	0.64
1:A:669:PRO:HB2	1:A:671:VAL:HG12	1.79	0.64
1:C:891:TYR:CB	1:C:896:ILE:HD11	2.27	0.64
1:C:903:VAL:HG21	1:C:1020:VAL:HG22	1.80	0.64
1:D:780:MET:SD	1:F:228:GLN:HG3	2.37	0.64
1:E:104:GLN:NE2	1:E:131:LYS:HE2	2.12	0.64
1:F:818:TYR:OH	1:F:825:GLU:HB2	1.97	0.64
1:C:818:TYR:OH	1:C:825:GLU:HB2	1.98	0.63
1:C:969:ARG:O	1:C:972:PRO:HD2	1.98	0.63
1:D:602:GLU:HG3	1:D:647:LEU:HD21	1.80	0.63
1:B:386:PHE:CE2	2:B:2031:LMT:H81	2.33	0.63
1:B:971:ARG:HB3	1:B:972:PRO:HD3	1.78	0.63
1:F:247:GLU:HB3	1:F:263:LYS:HG2	1.80	0.63
1:F:332:VAL:HG11	1:F:569:GLN:HG2	1.80	0.63
1:F:896:ILE:HB	1:F:945:VAL:HG11	1.80	0.63
1:A:941:ALA:O	1:A:945:VAL:HG12	1.97	0.63
1:C:683:PHE:CE2	1:C:818:TYR:CZ	2.86	0.63
1:E:895:SER:C	1:E:897:PRO:HD2	2.19	0.63
1:E:971:ARG:O	1:E:975:MET:HG2	1.98	0.63
1:A:523:THR:OG1	1:A:524:THR:N	2.28	0.63
1:B:164:ASP:HB2	1:C:67:GLN:NE2	2.12	0.63
1:D:247:GLU:HA	1:D:262:LEU:O	1.98	0.63
1:D:895:SER:C	1:D:897:PRO:HD2	2.18	0.63
1:E:14:VAL:HG11	1:F:889:ALA:HB2	1.81	0.63
1:F:213:GLN:HE21	1:F:239:ARG:HB2	1.64	0.63
1:F:447:MET:HE3	1:F:886:CYS:HB3	1.80	0.63
1:D:43:ILE:HG21	1:D:107:VAL:HG11	1.79	0.63
1:F:361:ASN:O	1:F:365:THR:HG22	1.99	0.63
1:F:445:ILE:HG22	1:F:939:LYS:HG2	1.81	0.63
1:A:193:LEU:CD2	1:A:265:VAL:HG13	2.29	0.63
1:B:104:GLN:NE2	1:B:131:LYS:HE2	2.13	0.63
1:B:718:ASN:HB2	1:B:827:LEU:CD2	2.28	0.63
1:E:466:ILE:HD11	1:E:924:VAL:HG21	1.81	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:963:ILE:HG13	1:F:964:GLU:N	2.14	0.63
1:F:969:ARG:O	1:F:972:PRO:HD2	1.99	0.63
1:B:541:TYR:HA	1:B:544:ILE:HG23	1.80	0.63
1:F:699:ARG:NE	1:F:824:MET:HG2	2.14	0.63
1:A:908:VAL:O	1:A:911:ALA:HB3	1.99	0.63
1:D:726:TYR:CZ	1:D:782:PRO:HB3	2.34	0.63
1:F:218:GLN:HA	1:F:234:ILE:HG23	1.80	0.63
1:A:680:PHE:CD1	1:A:828:GLY:O	2.47	0.63
1:B:527:TYR:CE2	1:B:966:CYS:HB3	2.33	0.63
1:C:361:ASN:O	1:C:365:THR:HG22	1.99	0.63
1:E:229:GLN:HA	1:F:583:SER:HB3	1.80	0.63
1:F:15:ILE:O	1:F:19:ILE:HG23	1.99	0.63
1:A:188:LEU:HD23	1:A:266:ALA:HB2	1.81	0.62
1:A:319:GLN:CD	1:A:319:GLN:H	2.03	0.62
1:C:372:VAL:HB	1:C:373:PRO:HD3	1.81	0.62
1:D:342:LYS:O	1:D:346:GLU:HG3	1.99	0.62
1:D:528:GLU:OE2	1:D:967:ARG:CZ	2.47	0.62
1:A:602:GLU:HG3	1:A:647:LEU:HD21	1.81	0.62
1:D:985:VAL:HA	1:D:1006:ILE:HD11	1.81	0.62
1:E:49:TYR:CE1	1:E:121:GLU:HG3	2.34	0.62
1:A:892:GLU:C	1:C:10:ILE:HD11	2.19	0.62
1:D:156:ASN:HD21	1:D:768:LYS:NZ	1.96	0.62
1:E:478:MET:O	1:E:482:VAL:HG23	1.99	0.62
1:A:996:GLY:N	1:A:999:HIS:HD2	1.97	0.62
1:B:424:GLY:HA3	1:B:502:LYS:HG2	1.81	0.62
1:C:896:ILE:HB	1:C:945:VAL:HG11	1.81	0.62
1:C:969:ARG:O	1:C:973:ILE:HG23	1.98	0.62
1:D:789:TYR:CE2	1:D:799:PRO:HG3	2.34	0.62
1:E:541:TYR:HA	1:E:544:ILE:HG23	1.81	0.62
1:F:359:LEU:HD12	1:F:365:THR:HA	1.81	0.62
1:F:1011:THR:O	1:F:1015:LEU:HB2	2.00	0.62
1:A:417:GLU:HA	1:A:420:MET:HE3	1.80	0.62
1:A:753:TRP:HZ3	1:A:779:ARG:HB3	1.63	0.62
1:B:847:VAL:HG13	1:B:850:LEU:HD12	1.82	0.62
1:C:43:ILE:HD11	1:C:107:VAL:CB	2.29	0.62
1:C:213:GLN:HE21	1:C:239:ARG:HB2	1.64	0.62
1:C:472:ILE:H	1:C:472:ILE:CD1	2.13	0.62
1:E:520:PHE:HA	1:E:523:THR:CG2	2.29	0.62
1:F:682:LEU:O	1:F:683:PHE:CD2	2.53	0.62
1:A:176:GLN:HE21	1:A:178:PHE:HE1	1.48	0.62
1:A:519:MET:O	1:A:523:THR:HG23	1.99	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:789:TYR:CE2	1:A:799:PRO:HG3	2.33	0.62
1:B:414:GLU:CD	1:B:972:PRO:HG3	2.20	0.62
1:E:527:TYR:CE2	1:E:966:CYS:HB3	2.34	0.62
1:E:718:ASN:HB2	1:E:827:LEU:CD2	2.28	0.62
1:F:63:GLN:HE22	1:F:67:GLN:HE21	1.48	0.62
1:F:903:VAL:HG21	1:F:1020:VAL:HG22	1.82	0.62
1:A:365:THR:O	1:A:369:THR:HG23	2.00	0.62
1:A:985:VAL:HA	1:A:1006:ILE:HD11	1.81	0.62
1:B:303:ALA:CB	1:B:330:THR:HG21	2.30	0.62
1:C:944:ILE:HG13	1:C:945:VAL:N	2.13	0.62
1:A:355:MET:HG3	1:A:365:THR:HG23	1.82	0.62
1:B:390:ILE:HA	1:B:394:THR:HG21	1.81	0.62
1:C:63:GLN:HE22	1:C:67:GLN:HE21	1.47	0.62
1:E:391:ASN:HD22	1:E:393:LEU:H	1.48	0.62
1:F:738:LEU:HD12	1:F:803:PHE:CZ	2.35	0.62
1:B:47:VAL:H	1:B:88:MET:HE2	1.65	0.62
1:D:367:ILE:HD11	1:D:413:VAL:HG22	1.82	0.62
1:E:745:ILE:O	1:E:748:THR:HG22	1.99	0.62
1:A:65:ILE:HD11	1:A:90:ILE:HG21	1.80	0.61
1:B:49:TYR:CE1	1:B:121:GLU:HG3	2.34	0.61
1:C:572:LEU:HD23	1:C:573:PHE:N	2.15	0.61
1:C:742:LEU:HB3	1:C:746:ASN:HD21	1.64	0.61
1:D:906:LEU:HD23	1:D:906:LEU:H	1.64	0.61
1:E:303:ALA:CB	1:E:330:THR:HG21	2.30	0.61
1:E:469:GLN:O	1:E:473:THR:HG22	2.00	0.61
1:A:329:THR:O	1:A:332:VAL:HG12	1.98	0.61
1:B:410:ILE:CD1	1:B:976:THR:HG22	2.25	0.61
1:B:616:ASN:HB3	1:B:618:ALA:H	1.64	0.61
1:D:535:LEU:HD23	1:D:959:VAL:HG13	1.82	0.61
1:F:47:VAL:HG12	1:F:88:MET:CE	2.30	0.61
1:F:738:LEU:HD12	1:F:803:PHE:HZ	1.64	0.61
1:F:742:LEU:HB3	1:F:746:ASN:HD21	1.65	0.61
1:A:183:SER:HB2	1:A:769:ARG:O	2.00	0.61
1:A:622:GLN:HE21	1:C:222:LEU:HG	1.66	0.61
1:C:971:ARG:HB2	1:C:972:PRO:HD3	1.82	0.61
1:D:417:GLU:HA	1:D:420:MET:HE3	1.82	0.61
1:E:424:GLY:HA3	1:E:502:LYS:HG2	1.81	0.61
1:F:251:LEU:HD12	1:F:265:VAL:HG21	1.80	0.61
1:F:281:PHE:CE2	1:F:324:VAL:HG11	2.35	0.61
1:A:428:ARG:HH12	1:A:432:ARG:HE	1.48	0.61
1:A:794:LYS:HD3	1:A:795:GLY:H	1.65	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2:SER:O	1:D:6:ILE:CD1	2.49	0.61
1:E:616:ASN:HB3	1:E:618:ALA:H	1.65	0.61
1:A:1016:ALA:O	1:A:1020:VAL:HG23	2.01	0.61
1:C:573:PHE:HE2	1:C:668:PRO:HG3	1.65	0.61
1:A:528:GLU:OE2	1:A:967:ARG:CZ	2.48	0.61
1:A:538:ARG:O	1:A:539:ALA:CB	2.49	0.61
1:B:589:VAL:HA	1:B:592:ASP:HB2	1.82	0.61
1:C:10:ILE:HA	1:C:13:TRP:HB2	1.83	0.61
1:C:47:VAL:HG12	1:C:88:MET:CE	2.30	0.61
1:C:544:ILE:O	1:C:548:ILE:HG23	2.01	0.61
1:C:963:ILE:HG13	1:C:964:GLU:N	2.15	0.61
1:D:188:LEU:HD23	1:D:266:ALA:HB2	1.81	0.61
1:D:428:ARG:HH12	1:D:432:ARG:HE	1.47	0.61
1:E:847:VAL:HG13	1:E:850:LEU:HD12	1.82	0.61
1:F:652:GLN:HG3	1:F:714:ARG:HD2	1.82	0.61
1:B:958:ILE:HD13	1:B:958:ILE:N	2.15	0.61
1:D:156:ASN:HD21	1:D:768:LYS:HZ1	1.46	0.61
1:D:280:GLN:HG2	1:D:595:ARG:HH21	1.65	0.61
1:D:337:ILE:HG13	1:D:338:HIS:N	2.16	0.61
1:D:365:THR:O	1:D:369:THR:HG23	2.00	0.61
1:E:414:GLU:CG	1:E:972:PRO:HG3	2.31	0.61
1:F:43:ILE:HD11	1:F:107:VAL:CB	2.31	0.61
1:A:451:ALA:HB1	1:A:882:VAL:CG1	2.29	0.61
1:A:780:MET:HE3	1:C:224:ALA:HA	1.82	0.61
1:B:453:PHE:CE2	1:B:474:ILE:HD11	2.35	0.61
1:C:359:LEU:HD12	1:C:365:THR:HA	1.82	0.61
1:C:738:LEU:HD12	1:C:803:PHE:HZ	1.65	0.61
1:C:910:GLY:H	1:C:1011:THR:HG21	1.66	0.61
1:E:958:ILE:HD13	1:E:958:ILE:N	2.16	0.61
1:A:337:ILE:HG13	1:A:338:HIS:N	2.15	0.61
1:A:538:ARG:CB	1:A:1022:LEU:HD21	2.30	0.61
1:C:115:THR:HB	1:C:116:PRO:HD3	1.83	0.61
1:C:445:ILE:CG2	1:C:939:LYS:HG2	2.30	0.61
1:C:738:LEU:HD12	1:C:803:PHE:CZ	2.36	0.61
1:D:749:VAL:HG13	1:D:753:TRP:HD1	1.66	0.61
1:E:38:ILE:HA	1:E:465:VAL:HG11	1.82	0.61
1:A:30:LEU:HD21	1:A:384:ALA:HA	1.82	0.61
1:A:119:PRO:O	1:A:122:VAL:HG12	2.01	0.61
1:A:535:LEU:HD23	1:A:959:VAL:HG13	1.83	0.61
1:A:880:LEU:HD11	1:A:904:VAL:HG21	1.83	0.61
1:C:47:VAL:HG12	1:C:88:MET:HE3	1.82	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:780:MET:CE	1:F:224:ALA:HA	2.30	0.61
1:E:589:VAL:HA	1:E:592:ASP:HB2	1.81	0.61
1:A:367:ILE:HD11	1:A:413:VAL:HG22	1.82	0.60
1:A:569:GLN:N	1:A:634:TRP:CH2	2.69	0.60
1:A:896:ILE:N	1:A:897:PRO:HD2	2.16	0.60
1:B:469:GLN:O	1:B:473:THR:HG22	2.01	0.60
1:B:895:SER:C	1:B:897:PRO:HD2	2.21	0.60
1:C:652:GLN:HG3	1:C:714:ARG:HD2	1.83	0.60
1:C:682:LEU:O	1:C:683:PHE:CD2	2.54	0.60
1:D:451:ALA:HB1	1:D:882:VAL:CG1	2.31	0.60
1:D:622:GLN:HE21	1:F:222:LEU:HG	1.66	0.60
1:D:1016:ALA:O	1:D:1020:VAL:HG23	2.01	0.60
1:E:157:TYR:O	1:E:161:ASN:HB2	2.01	0.60
1:F:115:THR:HB	1:F:116:PRO:HD3	1.82	0.60
1:A:83:ASN:ND2	1:A:620:ARG:HG2	2.16	0.60
1:B:745:ILE:O	1:B:748:THR:HG22	2.01	0.60
1:C:111:LEU:C	1:C:113:LEU:H	2.04	0.60
1:C:166:LEU:O	1:C:169:THR:HG22	2.01	0.60
1:E:414:GLU:CD	1:E:972:PRO:HG3	2.21	0.60
1:F:573:PHE:HE2	1:F:668:PRO:HG3	1.64	0.60
1:A:13:TRP:NE1	2:A:2026:LMT:H11	2.16	0.60
1:A:166:LEU:HG	1:A:291:ILE:HD11	1.84	0.60
1:A:280:GLN:HG2	1:A:595:ARG:HH21	1.65	0.60
1:A:521:LEU:O	1:A:521:LEU:HD13	2.01	0.60
1:A:537:HIS:O	1:A:538:ARG:O	2.19	0.60
1:D:538:ARG:CB	1:D:1022:LEU:HD21	2.30	0.60
1:D:538:ARG:O	1:D:539:ALA:CB	2.50	0.60
1:D:569:GLN:N	1:D:634:TRP:CH2	2.68	0.60
1:E:115:THR:HB	1:E:116:PRO:HD3	1.82	0.60
1:A:749:VAL:HG13	1:A:753:TRP:HD1	1.67	0.60
1:A:906:LEU:HD23	1:A:906:LEU:H	1.64	0.60
1:C:281:PHE:CE2	1:C:324:VAL:HG11	2.36	0.60
1:D:30:LEU:HD21	1:D:384:ALA:HA	1.83	0.60
1:D:83:ASN:ND2	1:D:620:ARG:HG2	2.16	0.60
1:D:242:THR:HG22	1:D:245:GLN:NE2	2.16	0.60
1:E:47:VAL:H	1:E:88:MET:HE2	1.66	0.60
1:E:410:ILE:CD1	1:E:976:THR:HG22	2.25	0.60
1:E:1020:VAL:HB	1:E:1021:PRO:HD3	1.82	0.60
1:A:753:TRP:CZ2	1:A:785:LEU:HG	2.36	0.60
1:A:791:ARG:HB2	1:A:797:MET:CE	2.30	0.60
1:B:414:GLU:CG	1:B:972:PRO:HG3	2.31	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1020:VAL:HB	1:B:1021:PRO:HD3	1.82	0.60
1:C:906:LEU:HD22	1:C:1015:LEU:HD12	1.83	0.60
1:A:7:ASP:O	1:A:9:PRO:HD3	2.01	0.60
1:A:541:TYR:HA	1:A:544:ILE:CG2	2.32	0.60
1:A:706:ALA:CB	1:A:846:ILE:HD13	2.30	0.60
1:A:875:LEU:C	1:A:875:LEU:HD12	2.21	0.60
1:D:472:ILE:HA	1:D:475:VAL:HG13	1.84	0.60
1:D:880:LEU:HD11	1:D:904:VAL:HG21	1.84	0.60
1:E:156:ASN:HD21	1:E:768:LYS:NZ	2.00	0.60
1:E:199:THR:HG23	1:E:200:PRO:HD2	1.83	0.60
1:F:358:PHE:CG	1:F:975:MET:HG2	2.36	0.60
1:F:683:PHE:CZ	1:F:818:TYR:CE2	2.90	0.60
1:F:907:GLY:HA2	1:F:1011:THR:HG23	1.83	0.60
1:F:910:GLY:H	1:F:1011:THR:HG21	1.65	0.60
1:A:569:GLN:CD	1:A:670:SER:HA	2.22	0.60
1:A:753:TRP:CZ2	1:A:785:LEU:HA	2.36	0.60
1:B:520:PHE:HA	1:B:523:THR:CG2	2.32	0.60
1:B:591:VAL:HA	1:B:594:MET:HG3	1.83	0.60
1:D:7:ASP:O	1:D:9:PRO:HD3	2.02	0.60
1:D:780:MET:HE3	1:F:225:VAL:H	1.66	0.60
1:F:906:LEU:HD22	1:F:1015:LEU:HD12	1.82	0.60
1:D:65:ILE:HD11	1:D:90:ILE:HG21	1.83	0.60
1:F:444:GLY:O	1:F:448:VAL:HG23	2.00	0.60
1:F:703:LEU:HA	1:F:706:ALA:HB3	1.83	0.60
1:F:944:ILE:HG13	1:F:945:VAL:N	2.16	0.60
1:B:966:CYS:SG	1:B:1021:PRO:CG	2.89	0.60
1:B:971:ARG:O	1:B:975:MET:HG2	2.02	0.60
1:C:575:GLN:NE2	1:C:617:PHE:HB2	2.17	0.60
1:D:372:VAL:HB	1:D:373:PRO:HD3	1.83	0.60
1:D:537:HIS:O	1:D:538:ARG:O	2.19	0.60
1:A:655:PHE:HB3	1:A:663:VAL:HB	1.84	0.60
1:C:907:GLY:HA2	1:C:1011:THR:HG23	1.84	0.60
1:D:541:TYR:HA	1:D:544:ILE:CG2	2.32	0.60
1:E:390:ILE:HA	1:E:394:THR:HG21	1.83	0.60
1:F:162:ILE:C	1:F:165:PRO:HD2	2.21	0.60
1:F:544:ILE:O	1:F:548:ILE:HG23	2.01	0.60
1:B:190:PRO:HG3	1:B:788:TRP:CE2	2.37	0.59
1:B:199:THR:HG23	1:B:200:PRO:HD2	1.83	0.59
1:B:930:LEU:O	1:B:934:ILE:HG23	2.02	0.59
1:D:119:PRO:O	1:D:122:VAL:HG12	2.01	0.59
1:F:10:ILE:HA	1:F:13:TRP:HB2	1.82	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:115:THR:HB	1:B:116:PRO:HD3	1.84	0.59
1:B:371:ALA:O	1:B:375:VAL:HG23	2.02	0.59
1:B:878:LEU:HD13	2:B:2032:LMT:H31	1.84	0.59
1:D:17:LEU:CD2	2:D:2026:LMT:H81	2.32	0.59
1:A:242:THR:HG22	1:A:245:GLN:HG3	1.84	0.59
1:A:472:ILE:HA	1:A:475:VAL:HG13	1.84	0.59
1:E:453:PHE:CE2	1:E:474:ILE:HD11	2.36	0.59
1:E:520:PHE:CA	1:E:523:THR:HG22	2.31	0.59
1:F:184:MET:HE1	1:F:268:VAL:HG13	1.84	0.59
1:F:330:THR:HG22	1:F:331:PRO:HD3	1.84	0.59
1:B:187:TRP:HA	1:B:773:GLN:O	2.02	0.59
1:D:519:MET:O	1:D:523:THR:HG23	2.03	0.59
1:E:930:LEU:O	1:E:934:ILE:HG23	2.01	0.59
1:B:669:PRO:HD2	1:B:672:LEU:HD12	1.83	0.59
1:C:162:ILE:C	1:C:165:PRO:HD2	2.22	0.59
1:D:150:THR:HG22	1:D:153:ASP:CG	2.23	0.59
1:D:523:THR:O	1:D:525:HIS:N	2.35	0.59
1:D:616:ASN:HD22	1:D:626:MET:HB3	1.65	0.59
1:D:780:MET:HE3	1:F:225:VAL:N	2.17	0.59
1:D:896:ILE:N	1:D:897:PRO:HD2	2.17	0.59
1:F:572:LEU:HD23	1:F:573:PHE:N	2.15	0.59
1:A:748:THR:HG21	1:A:790:VAL:HG22	1.83	0.59
1:D:196:TYR:H	1:D:196:TYR:HD2	1.51	0.59
1:E:224:ALA:HB1	1:F:780:MET:SD	2.42	0.59
1:A:568:ASP:HB3	1:A:634:TRP:CH2	2.37	0.59
1:C:703:LEU:HA	1:C:706:ALA:HB3	1.84	0.59
1:D:193:LEU:HD22	1:D:265:VAL:HG13	1.84	0.59
1:F:445:ILE:CG2	1:F:939:LYS:HG2	2.32	0.59
1:F:452:VAL:HG22	1:F:883:VAL:HG21	1.85	0.59
1:F:985:VAL:O	1:F:989:ILE:HG12	2.02	0.59
1:A:150:THR:H	1:A:153:ASP:HB2	1.68	0.59
1:A:273:GLN:NE2	1:A:769:ARG:HH11	2.01	0.59
1:A:402:ILE:HA	1:A:405:LEU:CD1	2.33	0.59
1:D:139:VAL:O	1:D:326:PRO:HD2	2.02	0.59
1:D:751:ILE:HG21	1:D:772:LEU:HD13	1.83	0.59
1:D:753:TRP:CZ2	1:D:785:LEU:HA	2.38	0.59
1:E:156:ASN:HD22	1:E:182:TYR:N	2.00	0.59
1:E:966:CYS:SG	1:E:1021:PRO:CG	2.90	0.59
1:F:575:GLN:NE2	1:F:617:PHE:HB2	2.17	0.59
1:A:139:VAL:HG12	1:A:327:TYR:HB3	1.84	0.59
1:B:156:ASN:HD21	1:B:768:LYS:NZ	2.00	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:576:VAL:HG21	1:B:591:VAL:HG22	1.83	0.59
1:C:985:VAL:O	1:C:989:ILE:HG12	2.03	0.59
1:D:576:VAL:HG21	1:D:594:MET:HE1	1.85	0.59
1:D:139:VAL:HG12	1:D:327:TYR:HB3	1.83	0.59
1:D:699:ARG:CZ	1:D:824:MET:HG3	2.32	0.59
1:D:739:GLY:HA3	1:D:793:ASP:HB2	1.84	0.59
1:A:699:ARG:CZ	1:A:824:MET:HG3	2.32	0.58
1:A:966:CYS:SG	1:A:1021:PRO:CG	2.90	0.58
1:D:568:ASP:HB3	1:D:634:TRP:CH2	2.38	0.58
1:E:190:PRO:HG3	1:E:788:TRP:CE2	2.38	0.58
1:E:576:VAL:HG22	1:E:663:VAL:HG22	1.84	0.58
1:A:170:LYS:HZ3	1:B:74:ASN:H	1.51	0.58
1:A:337:ILE:HG13	1:A:338:HIS:H	1.68	0.58
1:A:523:THR:O	1:A:525:HIS:N	2.36	0.58
1:B:38:ILE:HA	1:B:465:VAL:HG11	1.85	0.58
1:C:186:ILE:HG22	1:C:268:VAL:HG22	1.85	0.58
1:C:683:PHE:CZ	1:C:818:TYR:CE2	2.90	0.58
1:D:166:LEU:HG	1:D:291:ILE:HD11	1.85	0.58
1:D:951:LEU:O	1:D:956:LYS:HB2	2.03	0.58
1:E:187:TRP:HA	1:E:773:GLN:O	2.02	0.58
1:E:861:LEU:O	1:E:865:GLU:HG2	2.03	0.58
1:F:111:LEU:C	1:F:113:LEU:H	2.04	0.58
1:F:144:SER:HA	1:F:320:GLY:O	2.03	0.58
1:C:425:LEU:HD22	1:C:429:GLU:HB2	1.85	0.58
1:D:183:SER:HB2	1:D:769:ARG:O	2.03	0.58
1:D:355:MET:HG3	1:D:365:THR:HG23	1.83	0.58
1:D:655:PHE:HB3	1:D:663:VAL:HB	1.84	0.58
1:D:875:LEU:C	1:D:875:LEU:HD12	2.23	0.58
1:E:58:GLN:HA	1:E:62:VAL:HB	1.84	0.58
1:F:49:TYR:HE1	1:F:121:GLU:HG3	1.69	0.58
1:F:939:LYS:HZ1	1:F:976:THR:HG22	1.69	0.58
1:D:283:GLY:HA2	1:D:595:ARG:HE	1.68	0.58
1:D:966:CYS:SG	1:D:1021:PRO:CG	2.91	0.58
1:E:907:GLY:CA	1:E:1012:ALA:HB2	2.34	0.58
1:A:616:ASN:HD22	1:A:626:MET:HB3	1.64	0.58
1:C:138:MET:HB2	1:C:327:TYR:O	2.04	0.58
1:C:141:GLY:HA2	1:C:288:GLY:HA3	1.86	0.58
1:D:150:THR:H	1:D:153:ASP:HB2	1.68	0.58
1:D:337:ILE:HG13	1:D:338:HIS:H	1.69	0.58
1:B:58:GLN:HA	1:B:62:VAL:HB	1.84	0.58
1:B:520:PHE:CA	1:B:523:THR:HG22	2.33	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:109:ASN:HA	1:C:112:GLN:NE2	2.18	0.58
1:C:150:THR:HG22	1:C:153:ASP:OD2	2.03	0.58
1:C:242:THR:HG22	1:C:245:GLN:HG3	1.86	0.58
1:C:480:LEU:O	1:C:484:VAL:HG23	2.04	0.58
1:D:521:LEU:HD13	1:D:521:LEU:O	2.04	0.58
1:E:591:VAL:HA	1:E:594:MET:HG3	1.84	0.58
1:A:483:ILE:HG13	1:A:487:ILE:HD13	1.86	0.58
1:A:576:VAL:HG21	1:A:594:MET:HE1	1.85	0.58
1:A:751:ILE:HG21	1:A:772:LEU:HD13	1.86	0.58
1:C:49:TYR:HE1	1:C:121:GLU:HG3	1.69	0.58
1:C:452:VAL:HG22	1:C:883:VAL:HG21	1.86	0.58
1:D:175:PHE:HB2	1:D:289:ILE:HD11	1.86	0.58
1:D:622:GLN:NE2	1:F:222:LEU:HG	2.18	0.58
1:E:391:ASN:H	1:E:394:THR:CG2	2.16	0.58
1:A:181:GLN:HG3	1:A:768:LYS:HZ3	1.68	0.58
1:A:203:VAL:O	1:A:206:ALA:N	2.32	0.58
1:A:372:VAL:HB	1:A:373:PRO:HD3	1.85	0.58
1:A:951:LEU:O	1:A:956:LYS:HB2	2.03	0.58
1:B:156:ASN:HD22	1:B:182:TYR:N	2.02	0.58
1:D:242:THR:HG22	1:D:245:GLN:HG3	1.84	0.58
1:E:115:THR:O	1:E:118:LEU:HB2	2.04	0.58
1:D:57:VAL:HG13	1:D:88:MET:HB3	1.86	0.58
1:D:402:ILE:HA	1:D:405:LEU:CD1	2.33	0.58
1:E:910:GLY:H	1:E:1011:THR:HG21	1.69	0.58
1:A:283:GLY:HA2	1:A:595:ARG:HE	1.69	0.57
1:B:188:LEU:HA	1:B:266:ALA:HB2	1.86	0.57
1:C:190:PRO:HA	1:C:193:LEU:HD12	1.86	0.57
1:C:757:TYR:CE1	1:C:769:ARG:HD3	2.39	0.57
1:D:524:THR:HG22	1:D:970:LEU:HD12	1.86	0.57
2:E:2032:LMT:H42	2:E:2032:LMT:H82	1.86	0.57
1:A:242:THR:HG22	1:A:245:GLN:NE2	2.14	0.57
1:D:753:TRP:CZ2	1:D:785:LEU:HG	2.38	0.57
1:E:185:ARG:HD2	1:E:272:GLY:O	2.04	0.57
1:E:541:TYR:HA	1:E:544:ILE:CG2	2.35	0.57
1:A:727:LYS:HD3	1:A:728:LEU:H	1.68	0.57
1:B:861:LEU:O	1:B:865:GLU:HG2	2.04	0.57
1:D:262:LEU:HD11	1:D:266:ALA:N	2.19	0.57
1:F:186:ILE:HG22	1:F:268:VAL:HG22	1.86	0.57
1:B:94:PHE:CE2	1:B:103:ALA:HB1	2.40	0.57
1:D:251:LEU:HD12	1:D:251:LEU:N	2.19	0.57
1:E:559:ILE:HD12	1:E:560:PRO:HD2	1.87	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:80:SER:CB	1:F:90:ILE:HG22	2.34	0.57
1:F:166:LEU:O	1:F:169:THR:HG22	2.05	0.57
1:A:404:LEU:HD22	1:A:936:LEU:HD23	1.86	0.57
1:B:317:MET:SD	1:B:321:MET:HE3	2.45	0.57
1:C:80:SER:CB	1:C:90:ILE:HG22	2.34	0.57
1:C:479:ALA:O	1:C:482:VAL:HG12	2.04	0.57
1:D:404:LEU:HD22	1:D:936:LEU:HD23	1.87	0.57
1:D:893:SER:N	1:F:10:ILE:HD11	2.19	0.57
1:D:900:VAL:HG13	1:D:941:ALA:HB3	1.87	0.57
1:E:151:LYS:HZ1	1:E:278:ASN:HB3	1.70	0.57
1:E:701:LYS:O	1:E:705:LEU:HB2	2.05	0.57
1:F:138:MET:HB2	1:F:327:TYR:O	2.03	0.57
1:F:150:THR:HG22	1:F:153:ASP:OD2	2.04	0.57
1:F:203:VAL:O	1:F:207:ILE:HG13	2.05	0.57
1:B:541:TYR:HA	1:B:544:ILE:CG2	2.34	0.57
1:B:907:GLY:CA	1:B:1012:ALA:HB2	2.35	0.57
1:C:932:THR:O	1:C:936:LEU:HG	2.03	0.57
1:C:939:LYS:HZ3	1:C:976:THR:HG21	1.70	0.57
1:E:695:LEU:HD13	1:E:824:MET:HG3	1.85	0.57
1:F:393:LEU:CD1	1:F:466:ILE:HB	2.34	0.57
1:A:157:TYR:CZ	1:A:317:MET:HG2	2.40	0.57
1:A:367:ILE:HG12	1:A:368:PRO:HD3	1.86	0.57
1:B:155:SER:O	1:B:159:VAL:HG23	2.05	0.57
1:B:910:GLY:H	1:B:1011:THR:HG21	1.69	0.57
1:B:958:ILE:HG12	1:B:959:VAL:N	2.20	0.57
1:C:181:GLN:OE1	1:C:766:ARG:NH1	2.37	0.57
1:C:478:MET:O	1:C:481:SER:HB3	2.05	0.57
1:D:969:ARG:O	1:D:973:ILE:HG12	2.04	0.57
1:E:188:LEU:HA	1:E:266:ALA:HB2	1.86	0.57
1:A:831:ALA:O	1:A:834:LEU:HB2	2.04	0.57
1:B:185:ARG:HD2	1:B:272:GLY:O	2.04	0.57
1:B:453:PHE:CD2	1:B:474:ILE:HD11	2.39	0.57
1:D:350:LEU:O	1:D:354:VAL:HG23	2.05	0.57
1:E:116:PRO:HA	1:E:123:GLN:HE22	1.69	0.57
1:F:141:GLY:HA2	1:F:288:GLY:HA3	1.87	0.57
1:A:524:THR:O	1:A:527:TYR:HB3	2.05	0.57
1:A:539:ALA:HB3	1:A:540:PRO:HD3	1.87	0.57
1:B:466:ILE:HD11	1:B:924:VAL:HG21	1.85	0.57
1:C:393:LEU:CD1	1:C:466:ILE:HB	2.34	0.57
1:D:228:GLN:HE21	1:D:230:LEU:N	2.01	0.57
1:E:44:ALA:HB2	1:E:132:ALA:HB2	1.87	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:881:LEU:O	1:E:881:LEU:HD22	2.05	0.57
1:F:43:ILE:CD1	1:F:104:GLN:HA	2.35	0.57
1:A:57:VAL:HG13	1:A:88:MET:HB3	1.86	0.57
1:A:139:VAL:O	1:A:326:PRO:HD2	2.04	0.57
1:A:659:LYS:HD2	1:A:660:ASP:N	2.20	0.57
1:C:144:SER:HA	1:C:320:GLY:O	2.04	0.57
1:E:577:GLN:OE1	1:E:720:MET:HG2	2.05	0.57
1:F:109:ASN:HA	1:F:112:GLN:NE2	2.20	0.57
1:F:159:VAL:HG12	1:F:159:VAL:O	2.05	0.57
1:B:115:THR:O	1:B:118:LEU:HB2	2.05	0.56
1:C:27:ILE:HD11	1:C:380:PHE:CD1	2.39	0.56
1:D:573:PHE:HB2	1:D:666:PHE:CE2	2.40	0.56
1:E:94:PHE:CE2	1:E:103:ALA:HB1	2.40	0.56
1:E:281:PHE:CZ	1:E:324:VAL:HG11	2.39	0.56
1:A:298:ASN:O	1:A:302:THR:HG22	2.05	0.56
1:A:453:PHE:CE2	1:A:474:ILE:HD11	2.39	0.56
1:A:695:LEU:HD13	1:A:699:ARG:HH21	1.70	0.56
1:B:281:PHE:CZ	1:B:324:VAL:HG11	2.40	0.56
1:B:391:ASN:H	1:B:394:THR:CG2	2.16	0.56
1:D:176:GLN:HE21	1:D:178:PHE:HE1	1.52	0.56
1:D:818:TYR:HH	1:D:859:THR:HG1	1.51	0.56
1:E:35:TYR:HE1	1:E:392:THR:HG21	1.70	0.56
1:E:164:ASP:HB2	1:F:67:GLN:NE2	2.20	0.56
1:F:573:PHE:CE2	1:F:668:PRO:HG3	2.41	0.56
1:A:175:PHE:HB2	1:A:289:ILE:HD11	1.86	0.56
1:A:555:MET:SD	1:A:913:LEU:HD23	2.45	0.56
1:B:157:TYR:O	1:B:161:ASN:HB2	2.05	0.56
1:B:313:LEU:O	1:B:317:MET:HG3	2.05	0.56
1:B:363:ARG:HD3	1:B:496:MET:O	2.04	0.56
1:B:386:PHE:CZ	2:B:2031:LMT:H81	2.39	0.56
1:B:695:LEU:HD13	1:B:824:MET:HG3	1.86	0.56
1:C:60:THR:HG23	1:C:61:VAL:HG23	1.85	0.56
1:D:162:ILE:HG23	1:D:166:LEU:CD2	2.36	0.56
1:D:262:LEU:HD22	1:D:263:LYS:H	1.70	0.56
1:D:332:VAL:HG21	1:D:569:GLN:HA	1.86	0.56
1:D:533:SER:O	1:D:536:LYS:HG3	2.06	0.56
1:D:652:GLN:HE22	1:D:664:PHE:HD1	1.53	0.56
1:D:996:GLY:H	1:D:999:HIS:HD2	1.54	0.56
1:E:169:THR:O	1:E:172:VAL:HG23	2.05	0.56
1:E:313:LEU:O	1:E:317:MET:HG3	2.05	0.56
1:E:958:ILE:HG12	1:E:959:VAL:N	2.21	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:58:GLN:HA	1:F:62:VAL:HB	1.87	0.56
1:F:425:LEU:HD22	1:F:429:GLU:HB2	1.87	0.56
1:A:98:THR:O	1:A:100:PRO:HD3	2.04	0.56
1:C:358:PHE:CG	1:C:975:MET:HG2	2.40	0.56
1:D:727:LYS:HD3	1:D:728:LEU:H	1.68	0.56
1:F:896:ILE:HG12	1:F:897:PRO:HD3	1.87	0.56
1:F:910:GLY:N	1:F:1011:THR:HG21	2.20	0.56
1:A:193:LEU:HD22	1:A:265:VAL:HG13	1.86	0.56
1:A:317:MET:HE2	1:A:321:MET:HG3	1.88	0.56
1:A:352:PHE:CD1	1:A:369:THR:HG21	2.37	0.56
1:C:203:VAL:O	1:C:207:ILE:HG13	2.05	0.56
1:D:339:GLU:O	1:D:343:THR:HG23	2.06	0.56
1:D:1008:GLY:O	1:D:1012:ALA:HB2	2.06	0.56
1:E:363:ARG:HD3	1:E:496:MET:O	2.05	0.56
1:F:910:GLY:CA	1:F:1011:THR:HG21	2.36	0.56
1:F:971:ARG:HB2	1:F:972:PRO:HD3	1.86	0.56
1:A:332:VAL:HG21	1:A:569:GLN:HA	1.87	0.56
1:A:365:THR:O	1:A:368:PRO:HD2	2.06	0.56
1:B:231:ASN:HD21	1:C:584:ALA:H	1.54	0.56
1:D:343:THR:HG21	1:D:998:GLN:OE1	2.05	0.56
1:D:478:MET:O	1:D:481:SER:HB3	2.05	0.56
1:D:659:LYS:HD2	1:D:660:ASP:N	2.20	0.56
1:E:871:GLN:HA	2:E:2032:LMT:O2B	2.06	0.56
1:F:939:LYS:NZ	1:F:976:THR:CG2	2.69	0.56
1:A:142:VAL:HG12	1:A:154:LEU:HD22	1.87	0.56
1:A:478:MET:O	1:A:481:SER:HB3	2.06	0.56
1:A:545:TYR:HB2	1:A:1019:TRP:HZ3	1.70	0.56
1:B:1015:LEU:O	1:B:1019:TRP:HD1	1.89	0.56
1:C:396:PHE:CE2	1:C:998:GLN:HG2	2.41	0.56
1:C:910:GLY:CA	1:C:1011:THR:HG21	2.35	0.56
1:D:203:VAL:O	1:D:206:ALA:N	2.31	0.56
1:D:453:PHE:CE2	1:D:474:ILE:HD11	2.41	0.56
1:E:1015:LEU:O	1:E:1019:TRP:HD1	1.89	0.56
1:F:190:PRO:HG3	1:F:788:TRP:CZ2	2.40	0.56
1:F:559:ILE:HD11	1:F:922:ASN:HB2	1.86	0.56
1:F:779:ARG:O	1:F:779:ARG:HD2	2.06	0.56
1:A:339:GLU:O	1:A:343:THR:HG23	2.05	0.56
1:B:686:ASP:HB2	1:B:690:VAL:HG12	1.86	0.56
1:C:910:GLY:N	1:C:1011:THR:HG21	2.20	0.56
1:C:945:VAL:HG23	1:C:1020:VAL:HG12	1.88	0.56
1:D:524:THR:O	1:D:527:TYR:HB3	2.05	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:371:ALA:O	1:E:375:VAL:HG23	2.04	0.56
1:E:817:ARG:HD2	1:E:822:PRO:HA	1.88	0.56
1:F:242:THR:HG22	1:F:245:GLN:HG3	1.86	0.56
1:F:712:LEU:N	1:F:712:LEU:HD23	2.21	0.56
1:A:203:VAL:O	1:A:204:SER:C	2.44	0.56
1:A:222:LEU:HD23	1:B:622:GLN:NE2	2.21	0.56
1:A:350:LEU:O	1:A:354:VAL:HG23	2.06	0.56
1:A:622:GLN:NE2	1:C:222:LEU:HG	2.20	0.56
1:A:900:VAL:HG13	1:A:941:ALA:HB3	1.88	0.56
1:D:225:VAL:HG12	1:E:780:MET:HE2	1.87	0.56
1:A:637:ARG:N	1:A:638:PRO:CD	2.69	0.56
1:A:800:PHE:CD2	1:A:804:ALA:HB2	2.37	0.56
1:B:211:ASN:HD21	1:B:240:LEU:H	1.54	0.56
1:B:479:ALA:O	1:B:483:ILE:HG22	2.05	0.56
1:B:612:VAL:HG11	1:B:615:PHE:HD2	1.71	0.56
1:C:904:VAL:HB	1:C:905:PRO:HD3	1.88	0.56
1:D:162:ILE:HG23	1:D:166:LEU:HD23	1.88	0.56
1:D:637:ARG:N	1:D:638:PRO:CD	2.68	0.56
1:E:782:PRO:O	1:E:785:LEU:HB2	2.06	0.56
1:F:396:PHE:CE2	1:F:998:GLN:HG2	2.41	0.56
1:A:884:PHE:HB2	1:A:901:MET:HE2	1.88	0.55
1:A:950:GLU:O	1:A:953:GLU:HG3	2.05	0.55
1:C:330:THR:HG22	1:C:331:PRO:HD3	1.87	0.55
1:D:367:ILE:HG12	1:D:368:PRO:HD3	1.86	0.55
1:E:155:SER:O	1:E:159:VAL:HG23	2.06	0.55
1:E:445:ILE:HG22	1:E:942:ILE:HD12	1.89	0.55
1:F:314:GLU:HA	1:F:317:MET:SD	2.47	0.55
1:F:479:ALA:O	1:F:482:VAL:HG12	2.06	0.55
1:F:757:TYR:CE1	1:F:769:ARG:HD3	2.40	0.55
1:A:150:THR:HG22	1:A:153:ASP:CG	2.26	0.55
1:A:196:TYR:H	1:A:196:TYR:HD2	1.52	0.55
1:A:590:VAL:HG11	1:A:661:ALA:HB3	1.88	0.55
1:A:695:LEU:CD1	1:A:699:ARG:NH2	2.69	0.55
1:B:936:LEU:HD12	1:B:1009:MET:HE3	1.88	0.55
1:C:559:ILE:HD11	1:C:922:ASN:HB2	1.89	0.55
1:C:573:PHE:CE2	1:C:668:PRO:HG3	2.40	0.55
1:C:638:PRO:HD2	1:C:642:ASN:ND2	2.22	0.55
1:D:1001:ILE:HG23	1:D:1002:GLY:N	2.20	0.55
1:E:454:LEU:HD11	2:E:2031:LMT:H101	1.88	0.55
1:F:367:ILE:CG2	1:F:492:LEU:HB3	2.36	0.55
1:A:726:TYR:CE1	1:A:782:PRO:HB3	2.42	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:576:VAL:HG22	1:B:663:VAL:HG22	1.88	0.55
1:B:701:LYS:O	1:B:705:LEU:HB2	2.06	0.55
1:B:782:PRO:O	1:B:785:LEU:HB2	2.06	0.55
1:C:367:ILE:CG2	1:C:492:LEU:HB3	2.36	0.55
1:C:896:ILE:HG12	1:C:897:PRO:HD3	1.86	0.55
1:D:298:ASN:O	1:D:302:THR:HG22	2.06	0.55
1:D:363:ARG:O	1:D:367:ILE:HG22	2.06	0.55
1:D:809:GLU:O	1:D:810:TYR:HB3	2.05	0.55
1:E:453:PHE:CD2	1:E:474:ILE:HD11	2.40	0.55
1:F:980:PHE:CE2	1:F:1005:VAL:HG13	2.42	0.55
1:A:196:TYR:HD1	1:A:260:VAL:HG21	1.71	0.55
1:A:680:PHE:CD2	1:A:858:TRP:HZ3	2.25	0.55
1:C:43:ILE:HD11	1:C:107:VAL:CG2	2.37	0.55
1:D:352:PHE:CD1	1:D:369:THR:HG21	2.37	0.55
1:D:950:GLU:O	1:D:953:GLU:HG3	2.07	0.55
1:E:24:GLY:O	1:E:27:ILE:HG12	2.07	0.55
1:E:479:ALA:O	1:E:483:ILE:HG22	2.05	0.55
1:E:739:GLY:HA3	1:E:793:ASP:HB2	1.89	0.55
1:E:977:SER:O	1:E:981:ILE:HG23	2.07	0.55
1:F:80:SER:HB2	1:F:90:ILE:HG22	1.88	0.55
1:F:699:ARG:NH1	1:F:699:ARG:CG	2.60	0.55
1:A:524:THR:HG22	1:A:970:LEU:HD12	1.87	0.55
1:A:871:GLN:O	1:A:872:ALA:HB2	2.07	0.55
1:A:1001:ILE:HG23	1:A:1002:GLY:N	2.21	0.55
1:C:925:PHE:HD2	1:C:1001:ILE:HG23	1.71	0.55
1:F:68:GLN:HG3	1:F:114:ALA:HB2	1.87	0.55
1:B:116:PRO:HA	1:B:123:GLN:HE22	1.71	0.55
1:B:682:LEU:HD11	1:B:856:TYR:HD2	1.72	0.55
1:C:80:SER:HB2	1:C:90:ILE:HG22	1.87	0.55
1:D:695:LEU:CD1	1:D:699:ARG:NH2	2.69	0.55
1:D:930:LEU:O	1:D:934:ILE:HG23	2.05	0.55
1:D:1015:LEU:O	1:D:1019:TRP:HD1	1.90	0.55
1:F:60:THR:HG23	1:F:61:VAL:HG23	1.87	0.55
1:F:143:VAL:HG13	1:F:286:ALA:HB2	1.88	0.55
1:F:818:TYR:HD1	1:F:823:ALA:HB3	1.70	0.55
1:A:228:GLN:HE21	1:A:230:LEU:N	2.02	0.55
1:B:35:TYR:HE1	1:B:392:THR:HG21	1.71	0.55
1:B:242:THR:HG23	1:B:245:GLN:HG3	1.88	0.55
1:C:402:ILE:HD12	1:C:403:GLY:N	2.22	0.55
1:D:539:ALA:HB3	1:D:540:PRO:HD3	1.88	0.55
1:D:690:VAL:HG22	1:D:694:VAL:CG2	2.36	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:576:VAL:HG21	1:E:591:VAL:HG22	1.88	0.55
1:E:612:VAL:HG11	1:E:615:PHE:HD2	1.71	0.55
1:E:936:LEU:HD12	1:E:1009:MET:HE3	1.88	0.55
1:A:363:ARG:O	1:A:367:ILE:HG22	2.06	0.55
1:A:843:VAL:O	1:A:847:VAL:HG23	2.06	0.55
1:C:530:GLY:O	1:C:534:ILE:HG23	2.07	0.55
1:D:196:TYR:N	1:D:196:TYR:CD2	2.74	0.55
1:D:273:GLN:NE2	1:D:769:ARG:HH11	2.05	0.55
1:E:458:PHE:HA	2:E:2031:LMT:H11	1.88	0.55
1:A:573:PHE:HB2	1:A:666:PHE:CE2	2.41	0.55
1:C:314:GLU:HA	1:C:317:MET:SD	2.47	0.55
1:D:578:THR:HG22	1:D:579:PRO:HD2	1.88	0.55
1:E:552:MET:HG3	1:E:553:ILE:N	2.22	0.55
1:F:184:MET:HG3	1:F:246:PHE:CE1	2.42	0.55
1:F:638:PRO:HD2	1:F:642:ASN:ND2	2.22	0.55
1:A:533:SER:O	1:A:536:LYS:HG3	2.07	0.55
1:C:712:LEU:N	1:C:712:LEU:HD23	2.21	0.55
1:D:203:VAL:O	1:D:204:SER:C	2.45	0.55
1:D:843:VAL:O	1:D:847:VAL:HG23	2.07	0.55
1:D:851:PRO:O	1:D:854:VAL:HG12	2.07	0.55
1:F:925:PHE:HD2	1:F:1001:ILE:HG23	1.72	0.55
1:A:186:ILE:HG13	1:A:262:LEU:HD21	1.89	0.54
1:B:169:THR:O	1:B:172:VAL:HG23	2.06	0.54
1:B:739:GLY:HA3	1:B:793:ASP:HB2	1.89	0.54
1:C:326:PRO:HB3	1:C:610:PHE:HB2	1.89	0.54
1:C:575:GLN:NE2	1:C:666:PHE:HZ	2.05	0.54
1:C:818:TYR:HD1	1:C:823:ALA:HB3	1.71	0.54
1:C:977:SER:O	1:C:981:ILE:HG12	2.06	0.54
1:D:47:VAL:HG22	1:D:48:SER:N	2.22	0.54
1:D:161:ASN:O	1:D:165:PRO:HD2	2.08	0.54
1:D:498:LYS:N	1:D:499:PRO:CD	2.62	0.54
1:D:590:VAL:HG11	1:D:661:ALA:HB3	1.88	0.54
1:D:725:GLN:HG3	1:D:811:GLY:H	1.73	0.54
1:E:351:VAL:O	1:E:355:MET:HB2	2.07	0.54
1:E:549:VAL:O	1:E:552:MET:HG2	2.07	0.54
1:F:943:LEU:CD1	1:F:973:ILE:HG22	2.37	0.54
1:A:780:MET:HE3	1:C:225:VAL:H	1.73	0.54
1:A:902:LEU:HD23	1:A:1023:PHE:CE1	2.42	0.54
1:B:559:ILE:HD12	1:B:560:PRO:HD2	1.89	0.54
1:D:483:ILE:HG13	1:D:487:ILE:HD13	1.89	0.54
1:D:607:SER:HB2	1:D:632:LYS:HG2	1.88	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:807:LYS:HG3	1:D:808:TRP:H	1.72	0.54
1:E:48:SER:N	2:E:2033:LMT:O3B	2.40	0.54
1:E:211:ASN:HD21	1:E:240:LEU:H	1.55	0.54
1:F:142:VAL:HG12	1:F:154:LEU:HD22	1.88	0.54
1:F:190:PRO:HA	1:F:193:LEU:HD12	1.87	0.54
1:F:932:THR:O	1:F:936:LEU:HG	2.06	0.54
1:A:375:VAL:CG2	1:A:405:LEU:HG	2.23	0.54
1:B:577:GLN:OE1	1:B:720:MET:HG2	2.07	0.54
1:B:738:LEU:HD13	1:B:798:VAL:HG11	1.90	0.54
1:C:68:GLN:HG3	1:C:114:ALA:HB2	1.89	0.54
1:D:800:PHE:CD2	1:D:804:ALA:HB2	2.37	0.54
1:E:203:VAL:O	1:E:207:ILE:HG12	2.07	0.54
1:E:683:PHE:CE2	1:E:825:GLU:HB2	2.42	0.54
1:F:530:GLY:O	1:F:534:ILE:HG23	2.06	0.54
1:F:575:GLN:NE2	1:F:666:PHE:HZ	2.05	0.54
1:A:409:ALA:O	1:A:413:VAL:HG23	2.06	0.54
1:C:184:MET:HG3	1:C:246:PHE:CE1	2.42	0.54
1:C:980:PHE:CE2	1:C:1005:VAL:HG13	2.41	0.54
1:D:100:PRO:HB3	1:D:295:THR:HG21	1.90	0.54
1:D:197:GLN:HA	1:D:797:MET:SD	2.47	0.54
1:D:859:THR:HG23	1:D:860:GLY:N	2.22	0.54
1:D:902:LEU:HD23	1:D:1023:PHE:CE1	2.42	0.54
1:E:595:ARG:HG3	1:E:596:GLU:N	2.22	0.54
1:E:738:LEU:HD13	1:E:798:VAL:HG11	1.89	0.54
1:F:904:VAL:HB	1:F:905:PRO:HD3	1.89	0.54
1:F:945:VAL:HG23	1:F:1020:VAL:HG12	1.88	0.54
1:A:535:LEU:HD21	1:A:959:VAL:HG13	1.88	0.54
1:A:652:GLN:HE22	1:A:664:PHE:HD1	1.54	0.54
1:A:738:LEU:HD12	1:A:738:LEU:H	1.71	0.54
1:A:792:ASN:ND2	1:A:793:ASP:H	2.04	0.54
1:A:866:ARG:O	1:A:867:LEU:HG	2.06	0.54
1:A:1020:VAL:HB	1:A:1021:PRO:HD3	1.89	0.54
1:B:1023:PHE:O	1:B:1027:VAL:HG23	2.07	0.54
1:C:142:VAL:HG12	1:C:154:LEU:HD22	1.89	0.54
1:D:738:LEU:HD12	1:D:738:LEU:H	1.72	0.54
1:E:816:GLU:HB2	1:E:823:ALA:O	2.07	0.54
1:F:181:GLN:OE1	1:F:766:ARG:NH1	2.39	0.54
1:A:47:VAL:HG22	1:A:48:SER:N	2.23	0.54
1:A:142:VAL:HB	1:A:158:ILE:HD11	1.89	0.54
1:A:343:THR:HG21	1:A:998:GLN:OE1	2.06	0.54
1:A:416:VAL:O	1:A:420:MET:HB2	2.07	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:11:PHE:CD1	1:C:889:ALA:HB1	2.42	0.54
1:B:203:VAL:O	1:B:207:ILE:HG12	2.07	0.54
1:B:445:ILE:HG22	1:B:942:ILE:HD12	1.88	0.54
1:C:190:PRO:HG3	1:C:788:TRP:CZ2	2.43	0.54
1:D:1020:VAL:HB	1:D:1021:PRO:HD3	1.88	0.54
1:E:43:ILE:HG12	1:E:104:GLN:HA	1.90	0.54
1:E:242:THR:HG23	1:E:245:GLN:HG3	1.90	0.54
1:E:305:ALA:C	1:E:307:ARG:H	2.10	0.54
1:F:281:PHE:O	1:F:282:ASN:HB2	2.08	0.54
1:F:433:LYS:HD2	1:F:437:GLN:NE2	2.22	0.54
1:F:582:SER:HB3	1:F:586:ARG:HD3	1.89	0.54
1:A:1015:LEU:O	1:A:1019:TRP:HD1	1.91	0.54
1:B:43:ILE:HG12	1:B:104:GLN:HA	1.89	0.54
1:A:670:SER:O	1:A:671:VAL:HB	2.08	0.54
1:A:893:SER:N	1:C:10:ILE:HD11	2.23	0.54
1:C:159:VAL:CG2	1:C:177:VAL:HG11	2.33	0.54
1:D:249:ILE:HG23	1:D:262:LEU:N	2.23	0.54
1:D:830:PRO:HA	1:D:838:ASP:OD2	2.07	0.54
1:E:108:GLN:HB2	1:E:129:VAL:HG21	1.89	0.54
1:F:214:ILE:CG1	1:F:237:LYS:HB2	2.38	0.54
1:A:189:ASP:OD2	1:A:191:ALA:HB3	2.08	0.54
1:B:592:ASP:O	1:B:595:ARG:HG2	2.07	0.54
1:B:904:VAL:O	1:B:908:VAL:HG23	2.07	0.54
1:C:1029:THR:O	1:C:1030:LEU:HD23	2.08	0.54
1:D:142:VAL:HG23	1:D:158:ILE:HD11	1.90	0.54
1:E:293:LEU:CD2	1:E:302:THR:HG21	2.36	0.54
1:E:592:ASP:O	1:E:595:ARG:HG2	2.07	0.54
1:F:402:ILE:HD12	1:F:403:GLY:N	2.23	0.54
1:F:729:GLU:HB2	1:F:805:THR:HG23	1.90	0.54
1:F:977:SER:O	1:F:981:ILE:HG12	2.08	0.54
1:A:531:VAL:O	1:A:532:ALA:O	2.26	0.54
2:A:2026:LMT:H122	2:A:2026:LMT:C8	2.33	0.54
1:D:866:ARG:O	1:D:867:LEU:HG	2.06	0.54
1:E:317:MET:SD	1:E:321:MET:HE3	2.48	0.54
1:E:657:SER:O	1:E:658:PHE:C	2.46	0.54
1:E:800:PHE:HD2	1:E:804:ALA:HB2	1.73	0.54
1:F:683:PHE:CD2	1:F:818:TYR:CE1	2.97	0.54
1:B:44:ALA:HB2	1:B:132:ALA:HB2	1.89	0.53
1:B:305:ALA:C	1:B:307:ARG:H	2.10	0.53
1:B:595:ARG:HG3	1:B:596:GLU:N	2.21	0.53
1:C:779:ARG:O	1:C:779:ARG:HD2	2.08	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:535:LEU:HD21	1:D:959:VAL:HG13	1.90	0.53
1:D:712:LEU:HD21	1:D:842:ALA:CB	2.37	0.53
1:E:891:TYR:CD2	1:E:896:ILE:HD11	2.42	0.53
1:A:213:GLN:CG	1:B:56:THR:HG23	2.37	0.53
1:A:423:GLU:HB3	1:A:425:LEU:HD13	1.90	0.53
1:A:710:PRO:O	1:A:831:ALA:CB	2.55	0.53
1:A:780:MET:CE	1:C:224:ALA:HA	2.37	0.53
1:B:657:SER:O	1:B:658:PHE:C	2.46	0.53
1:B:761:PHE:HE2	1:B:763:ASP:HB3	1.73	0.53
1:B:904:VAL:HB	1:B:905:PRO:HD3	1.90	0.53
1:C:143:VAL:HG13	1:C:286:ALA:HB2	1.88	0.53
1:D:142:VAL:CG2	1:D:158:ILE:HD11	2.39	0.53
1:D:726:TYR:CE1	1:D:782:PRO:HB3	2.43	0.53
1:D:871:GLN:O	1:D:872:ALA:HB2	2.08	0.53
1:D:884:PHE:N	1:D:901:MET:HE1	2.23	0.53
1:E:420:MET:HE1	1:E:499:PRO:HA	1.90	0.53
1:E:981:ILE:HG13	1:E:982:LEU:N	2.23	0.53
1:F:896:ILE:HB	1:F:945:VAL:CG1	2.38	0.53
1:A:807:LYS:HG3	1:A:808:TRP:H	1.74	0.53
1:A:930:LEU:O	1:A:934:ILE:HG23	2.08	0.53
1:A:1008:GLY:O	1:A:1012:ALA:HB2	2.07	0.53
1:B:240:LEU:HA	1:B:245:GLN:HE22	1.74	0.53
1:B:351:VAL:O	1:B:355:MET:HB2	2.09	0.53
1:C:355:MET:SD	1:C:368:PRO:HB2	2.48	0.53
1:C:446:ALA:O	1:C:450:SER:HB2	2.09	0.53
1:C:520:PHE:C	1:C:522:SER:H	2.11	0.53
1:D:62:VAL:O	1:D:65:ILE:HD13	2.08	0.53
1:D:367:ILE:CD1	1:D:413:VAL:HG22	2.39	0.53
1:D:416:VAL:HG12	1:D:420:MET:CE	2.38	0.53
1:D:585:GLU:O	1:D:589:VAL:HG23	2.08	0.53
2:E:2033:LMT:H62	2:E:2033:LMT:C12	2.33	0.53
1:A:196:TYR:N	1:A:196:TYR:CD2	2.75	0.53
1:B:165:PRO:O	1:B:169:THR:HG23	2.09	0.53
1:C:683:PHE:CD2	1:C:818:TYR:CE1	2.96	0.53
1:C:742:LEU:HB3	1:C:746:ASN:ND2	2.23	0.53
1:C:745:ILE:HG22	1:C:790:VAL:HG21	1.91	0.53
1:C:792:ASN:OD1	1:C:798:VAL:HG23	2.08	0.53
1:D:98:THR:O	1:D:100:PRO:HD3	2.08	0.53
1:D:388:PHE:CE2	1:D:472:ILE:HG12	2.43	0.53
1:E:240:LEU:HA	1:E:245:GLN:HE22	1.74	0.53
1:E:391:ASN:H	1:E:394:THR:HG22	1.73	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:792:ASN:OD1	1:F:798:VAL:HG23	2.09	0.53
1:A:884:PHE:N	1:A:901:MET:HE1	2.23	0.53
1:B:62:VAL:CG2	1:B:88:MET:HG3	2.38	0.53
1:B:192:LYS:O	1:B:195:SER:HB3	2.08	0.53
1:C:43:ILE:HD11	1:C:107:VAL:HG21	1.89	0.53
1:C:58:GLN:HA	1:C:62:VAL:HB	1.89	0.53
1:C:582:SER:HB3	1:C:586:ARG:HD3	1.90	0.53
1:E:151:LYS:NZ	1:E:278:ASN:HB3	2.24	0.53
1:E:156:ASN:HD21	1:E:768:LYS:HZ3	1.55	0.53
1:F:159:VAL:CG2	1:F:177:VAL:HG11	2.36	0.53
1:F:393:LEU:HD13	1:F:466:ILE:HB	1.90	0.53
1:F:433:LYS:HD2	1:F:437:GLN:HE21	1.74	0.53
1:F:520:PHE:C	1:F:522:SER:H	2.12	0.53
1:A:251:LEU:HD12	1:A:251:LEU:N	2.24	0.53
1:A:578:THR:HG22	1:A:579:PRO:HD2	1.87	0.53
1:B:676:ASN:ND2	1:B:827:LEU:HD12	2.20	0.53
1:C:45:VAL:HG22	1:C:129:VAL:HG22	1.90	0.53
1:C:939:LYS:NZ	1:C:976:THR:CG2	2.71	0.53
1:D:131:LYS:O	1:D:295:THR:HG22	2.09	0.53
1:D:365:THR:O	1:D:368:PRO:HD2	2.09	0.53
1:E:843:VAL:O	1:E:847:VAL:HG23	2.08	0.53
1:E:1014:VAL:O	1:E:1017:ILE:HG12	2.08	0.53
1:F:939:LYS:NZ	1:F:976:THR:HG22	2.23	0.53
1:A:366:LEU:O	1:A:370:ILE:HG23	2.08	0.53
1:B:143:VAL:HG12	1:B:286:ALA:CB	2.39	0.53
1:B:392:THR:O	1:B:396:PHE:HD1	1.92	0.53
1:B:800:PHE:HD2	1:B:804:ALA:HB2	1.73	0.53
1:B:1014:VAL:O	1:B:1017:ILE:HG12	2.08	0.53
1:C:391:ASN:HB2	1:C:394:THR:H	1.74	0.53
1:C:1001:ILE:HG13	1:C:1002:GLY:H	1.74	0.53
1:D:453:PHE:O	1:D:456:MET:HB2	2.08	0.53
1:A:344:LEU:O	1:A:348:ILE:HG22	2.09	0.53
1:B:8:ARG:HB3	1:C:892:GLU:OE1	2.09	0.53
1:D:133:VAL:HG12	1:D:293:LEU:O	2.08	0.53
1:D:356:TYR:HE1	1:D:513:PHE:HZ	1.57	0.53
1:D:875:LEU:HD11	1:D:931:LEU:HD11	1.90	0.53
1:E:156:ASN:ND2	1:E:182:TYR:H	2.07	0.53
1:E:586:ARG:O	1:E:589:VAL:HG12	2.09	0.53
1:A:532:ALA:HA	1:A:535:LEU:HB2	1.90	0.53
1:A:809:GLU:O	1:A:810:TYR:HB3	2.08	0.53
1:A:859:THR:HG23	1:A:860:GLY:N	2.23	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:552:MET:HG3	1:B:553:ILE:N	2.23	0.53
1:C:652:GLN:HG3	1:C:714:ARG:HH11	1.74	0.53
1:D:143:VAL:HG22	1:D:286:ALA:HB2	1.91	0.53
1:D:366:LEU:O	1:D:370:ILE:HG23	2.09	0.53
1:E:62:VAL:CG2	1:E:88:MET:HG3	2.38	0.53
1:E:761:PHE:HE2	1:E:763:ASP:HB3	1.73	0.53
1:E:953:GLU:C	1:E:955:GLY:H	2.12	0.53
1:F:652:GLN:HG3	1:F:714:ARG:HH11	1.74	0.53
1:F:1029:THR:O	1:F:1030:LEU:HD23	2.09	0.53
1:A:453:PHE:O	1:A:456:MET:HB2	2.09	0.53
1:B:24:GLY:O	1:B:27:ILE:HG12	2.09	0.53
1:B:817:ARG:HD2	1:B:822:PRO:HA	1.91	0.53
1:C:539:ALA:N	1:C:540:PRO:HD2	2.24	0.53
1:C:939:LYS:HZ3	1:C:976:THR:CG2	2.22	0.53
1:D:690:VAL:HG22	1:D:694:VAL:HG21	1.90	0.53
1:F:326:PRO:HB3	1:F:610:PHE:HB2	1.90	0.53
1:F:742:LEU:HB3	1:F:746:ASN:ND2	2.24	0.53
1:A:100:PRO:HB3	1:A:295:THR:HG21	1.90	0.52
1:A:607:SER:HB2	1:A:632:LYS:HG2	1.91	0.52
1:A:753:TRP:CB	1:C:217:GLY:H	2.21	0.52
1:B:108:GLN:HB2	1:B:129:VAL:HG21	1.92	0.52
1:B:243:ALA:HB1	1:B:268:VAL:HG12	1.91	0.52
1:B:435:MET:SD	1:B:438:ILE:HD11	2.50	0.52
1:B:530:GLY:O	1:B:534:ILE:HG13	2.10	0.52
1:B:684:LEU:O	1:B:823:ALA:HB1	2.09	0.52
1:B:758:VAL:HG21	1:B:772:LEU:HB2	1.91	0.52
1:C:43:ILE:CD1	1:C:104:GLN:HA	2.36	0.52
1:C:680:PHE:CE2	1:C:682:LEU:HD12	2.44	0.52
1:D:358:PHE:CD2	1:D:975:MET:HB2	2.44	0.52
1:D:723:GLU:HG2	1:D:813:PRO:HG3	1.91	0.52
1:D:753:TRP:HB2	1:F:217:GLY:H	1.74	0.52
1:E:944:ILE:HD11	1:E:1020:VAL:HG11	1.90	0.52
1:E:969:ARG:O	1:E:973:ILE:HG23	2.09	0.52
1:F:568:ASP:CG	1:F:644:VAL:HG23	2.29	0.52
1:A:131:LYS:O	1:A:295:THR:HG22	2.09	0.52
1:A:416:VAL:HG11	1:A:497:LEU:HD23	1.91	0.52
1:A:485:ALA:O	1:A:490:PRO:HD3	2.08	0.52
1:A:538:ARG:C	1:A:540:PRO:HD2	2.29	0.52
1:A:823:ALA:O	1:A:824:MET:HG2	2.09	0.52
1:A:830:PRO:HA	1:A:838:ASP:OD2	2.08	0.52
1:A:851:PRO:O	1:A:854:VAL:HG12	2.09	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:53:SER:O	1:B:57:VAL:HG12	2.09	0.52
1:C:303:ALA:O	1:C:307:ARG:HB2	2.09	0.52
1:C:939:LYS:NZ	1:C:976:THR:HG22	2.25	0.52
1:E:530:GLY:O	1:E:534:ILE:HG13	2.09	0.52
1:E:794:LYS:HD3	1:E:795:GLY:N	2.24	0.52
1:F:944:ILE:HD11	1:F:1020:VAL:HB	1.92	0.52
1:A:39:ALA:CB	1:A:672:LEU:HD11	2.40	0.52
1:A:449:LEU:HD12	1:A:478:MET:HG2	1.91	0.52
1:A:875:LEU:HD11	1:A:931:LEU:HD11	1.91	0.52
1:C:225:VAL:O	1:C:228:GLN:HB2	2.10	0.52
1:C:896:ILE:HB	1:C:945:VAL:CG1	2.40	0.52
1:E:240:LEU:HA	1:E:245:GLN:NE2	2.24	0.52
1:E:587:THR:HG21	1:E:622:GLN:O	2.09	0.52
1:F:773:GLN:HB3	1:F:779:ARG:HH12	1.74	0.52
1:A:680:PHE:CZ	1:A:843:VAL:HG21	2.45	0.52
1:A:709:ASN:O	1:A:711:ALA:N	2.43	0.52
1:A:933:THR:OG1	1:A:1009:MET:HG2	2.09	0.52
1:A:943:LEU:HB3	1:A:969:ARG:NH1	2.24	0.52
1:B:352:PHE:CD2	1:B:353:LEU:HD23	2.44	0.52
1:B:977:SER:O	1:B:981:ILE:HG23	2.09	0.52
1:D:210:GLN:HB2	1:D:249:ILE:HD12	1.91	0.52
1:D:538:ARG:C	1:D:540:PRO:HD2	2.30	0.52
1:D:696:LEU:HD13	1:D:699:ARG:NH1	2.25	0.52
1:E:904:VAL:HB	1:E:905:PRO:HD3	1.90	0.52
1:F:225:VAL:O	1:F:228:GLN:HB2	2.09	0.52
1:F:355:MET:SD	1:F:368:PRO:HB2	2.49	0.52
1:A:358:PHE:CD2	1:A:975:MET:HB2	2.44	0.52
1:A:489:THR:HB	1:A:490:PRO:HD3	1.92	0.52
1:B:981:ILE:HG13	1:B:982:LEU:N	2.24	0.52
1:C:433:LYS:HD2	1:C:437:GLN:NE2	2.24	0.52
1:C:568:ASP:CG	1:C:644:VAL:HG23	2.30	0.52
1:C:943:LEU:CD1	1:C:973:ILE:HG22	2.39	0.52
1:D:240:LEU:HB2	1:D:246:PHE:CE1	2.45	0.52
1:D:355:MET:HE2	1:D:410:ILE:HD11	1.91	0.52
1:D:545:TYR:HB2	1:D:1019:TRP:HZ3	1.70	0.52
1:D:943:LEU:HB3	1:D:969:ARG:NH1	2.24	0.52
1:D:977:SER:O	1:D:981:ILE:HG23	2.09	0.52
1:E:165:PRO:O	1:E:169:THR:HG23	2.10	0.52
1:E:192:LYS:O	1:E:195:SER:HB3	2.10	0.52
1:E:435:MET:SD	1:E:438:ILE:HD11	2.49	0.52
1:F:480:LEU:O	1:F:484:VAL:HG23	2.09	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:416:VAL:HG12	1:A:420:MET:CE	2.39	0.52
1:A:996:GLY:H	1:A:999:HIS:HD2	1.58	0.52
1:B:816:GLU:HB2	1:B:823:ALA:O	2.09	0.52
1:B:881:LEU:O	1:B:881:LEU:HD22	2.10	0.52
1:B:891:TYR:CD2	1:B:896:ILE:HD11	2.45	0.52
1:C:393:LEU:HD13	1:C:466:ILE:HB	1.92	0.52
1:C:607:SER:HB2	1:C:632:LYS:HG2	1.92	0.52
1:D:531:VAL:O	1:D:532:ALA:O	2.28	0.52
1:D:680:PHE:CD2	1:D:858:TRP:HZ3	2.26	0.52
1:D:688:ALA:O	1:D:689:GLY:C	2.48	0.52
1:E:243:ALA:HB1	1:E:268:VAL:HG12	1.91	0.52
1:F:358:PHE:CD1	1:F:975:MET:HG2	2.45	0.52
1:F:609:VAL:HG22	1:F:629:ILE:HG23	1.92	0.52
1:F:680:PHE:CE2	1:F:682:LEU:HD12	2.44	0.52
1:A:388:PHE:CE2	1:A:472:ILE:HG12	2.43	0.52
1:A:710:PRO:HD3	1:D:807:LYS:CE	2.39	0.52
1:B:125:GLN:NE2	1:B:769:ARG:NH1	2.53	0.52
1:B:293:LEU:CD2	1:B:302:THR:HG21	2.38	0.52
1:B:549:VAL:O	1:B:552:MET:HG2	2.09	0.52
1:B:574:ALA:HB3	1:B:627:ALA:HB3	1.91	0.52
1:C:447:MET:HE3	1:C:886:CYS:HB3	1.91	0.52
1:C:527:TYR:HD1	1:C:1018:PHE:CE2	2.28	0.52
1:C:902:LEU:HD13	1:C:1023:PHE:CD2	2.45	0.52
1:D:159:VAL:HA	1:D:163:GLN:HB2	1.90	0.52
1:E:348:ILE:HD12	1:E:369:THR:HG23	1.92	0.52
1:F:939:LYS:HZ3	1:F:976:THR:HG21	1.73	0.52
1:B:489:THR:OG1	1:B:490:PRO:HD3	2.10	0.52
1:B:794:LYS:HD3	1:B:795:GLY:N	2.25	0.52
1:D:449:LEU:HD12	1:D:478:MET:HG2	1.92	0.52
1:D:695:LEU:HD13	1:D:699:ARG:HH21	1.74	0.52
1:E:392:THR:O	1:E:396:PHE:HD1	1.93	0.52
1:F:692:HIS:O	1:F:696:LEU:HB2	2.10	0.52
1:F:818:TYR:CD1	1:F:823:ALA:HB3	2.45	0.52
1:C:159:VAL:O	1:C:159:VAL:HG12	2.08	0.52
1:C:912:LEU:CD2	1:C:926:PHE:HZ	2.23	0.52
1:D:933:THR:OG1	1:D:1009:MET:HG2	2.10	0.52
1:E:703:LEU:CD1	1:E:717:PRO:HG3	2.37	0.52
1:F:534:ILE:HD12	1:F:1022:LEU:HD12	1.92	0.52
1:A:259:GLN:HE21	1:A:259:GLN:N	2.07	0.52
1:A:356:TYR:HE1	1:A:513:PHE:HZ	1.58	0.52
1:A:708:GLN:OE1	1:D:809:GLU:HA	2.10	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:725:GLN:HG3	1:A:811:GLY:H	1.75	0.52
1:B:102:ILE:C	1:B:102:ILE:HD12	2.29	0.52
1:D:823:ALA:O	1:D:824:MET:HG2	2.10	0.52
1:F:745:ILE:HG22	1:F:790:VAL:HG21	1.91	0.52
1:F:751:ILE:HB	1:F:756:SER:HB2	1.91	0.52
1:A:453:PHE:HE2	1:A:932:THR:HG22	1.74	0.51
1:A:572:LEU:HB3	1:A:629:ILE:HB	1.92	0.51
1:A:812:SER:OG	1:A:815:LEU:HD13	2.10	0.51
1:B:162:ILE:HG22	1:B:313:LEU:CD1	2.32	0.51
1:B:348:ILE:HD12	1:B:369:THR:HG23	1.92	0.51
1:C:687:GLN:NE2	1:C:855:GLY:HA3	2.25	0.51
1:C:773:GLN:HB3	1:C:779:ARG:HH12	1.74	0.51
1:D:15:ILE:HD13	1:D:15:ILE:C	2.29	0.51
1:D:485:ALA:O	1:D:490:PRO:HD3	2.10	0.51
1:D:593:SER:HB3	1:D:658:PHE:CZ	2.45	0.51
1:D:680:PHE:CZ	1:D:843:VAL:HG21	2.45	0.51
1:E:46:GLN:HE22	2:E:2033:LMT:H42	1.74	0.51
1:E:574:ALA:HB3	1:E:627:ALA:HB3	1.92	0.51
2:E:2033:LMT:H6E	2:E:2033:LMT:O6B	2.10	0.51
1:F:912:LEU:CD2	1:F:926:PHE:HZ	2.22	0.51
1:A:356:TYR:O	1:A:356:TYR:HD1	1.93	0.51
1:B:151:LYS:NZ	1:B:278:ASN:HB3	2.25	0.51
1:C:188:LEU:HA	1:C:266:ALA:HB2	1.92	0.51
1:C:751:ILE:HB	1:C:756:SER:HB2	1.92	0.51
1:D:416:VAL:O	1:D:420:MET:HB2	2.10	0.51
1:D:555:MET:SD	1:D:913:LEU:HD23	2.49	0.51
1:F:456:MET:HE3	1:F:931:LEU:HD12	1.92	0.51
1:F:539:ALA:N	1:F:540:PRO:HD2	2.25	0.51
1:A:594:MET:O	1:A:595:ARG:C	2.49	0.51
1:B:240:LEU:HA	1:B:245:GLN:NE2	2.25	0.51
1:B:420:MET:HE3	1:B:427:PRO:HA	1.92	0.51
1:B:587:THR:HG21	1:B:622:GLN:O	2.10	0.51
1:B:703:LEU:CD1	1:B:717:PRO:HG3	2.36	0.51
1:D:242:THR:HG23	1:D:245:GLN:H	1.75	0.51
1:D:409:ALA:O	1:D:413:VAL:HG23	2.11	0.51
1:D:439:GLN:O	1:D:443:VAL:HG23	2.10	0.51
1:D:958:ILE:HD13	1:D:959:VAL:H	1.76	0.51
1:E:143:VAL:HG12	1:E:286:ALA:CB	2.40	0.51
1:E:517:ASN:O	1:E:521:LEU:HB2	2.10	0.51
1:F:43:ILE:HD11	1:F:107:VAL:CG2	2.39	0.51
1:F:214:ILE:HG12	1:F:237:LYS:HB2	1.92	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:240:LEU:HB2	1:A:246:PHE:CE1	2.45	0.51
1:A:242:THR:HG23	1:A:245:GLN:H	1.76	0.51
1:A:355:MET:HE1	1:A:406:VAL:CG1	2.40	0.51
1:A:485:ALA:HA	1:A:489:THR:OG1	2.10	0.51
1:A:977:SER:O	1:A:981:ILE:HG23	2.10	0.51
1:C:109:ASN:HA	1:C:112:GLN:CD	2.30	0.51
1:C:980:PHE:HE2	1:C:1005:VAL:HG13	1.75	0.51
1:D:181:GLN:HG3	1:D:768:LYS:HZ3	1.74	0.51
1:E:906:LEU:O	1:E:1011:THR:HG23	2.10	0.51
1:A:142:VAL:CG1	1:A:154:LEU:HD22	2.40	0.51
1:A:688:ALA:O	1:A:689:GLY:C	2.48	0.51
1:B:16:ALA:HB2	1:B:488:LEU:HG	1.92	0.51
1:C:527:TYR:O	1:C:531:VAL:HG23	2.11	0.51
1:D:780:MET:HE3	1:F:224:ALA:CA	2.41	0.51
1:D:913:LEU:O	1:D:917:MET:HG2	2.11	0.51
1:E:102:ILE:C	1:E:102:ILE:HD12	2.31	0.51
1:E:188:LEU:HD11	1:E:772:LEU:HD21	1.93	0.51
1:F:227:GLY:O	1:F:229:GLN:HG3	2.11	0.51
1:A:196:TYR:CD1	1:A:260:VAL:HG11	2.45	0.51
1:B:34:GLN:HG3	1:B:35:TYR:CD2	2.45	0.51
1:B:418:ARG:HH11	1:B:418:ARG:HG2	1.75	0.51
1:C:729:GLU:HB2	1:C:805:THR:HG23	1.91	0.51
1:D:538:ARG:C	1:D:538:ARG:HE	2.13	0.51
1:D:548:ILE:HG23	1:D:909:ILE:HD13	1.92	0.51
1:D:749:VAL:HG13	1:D:753:TRP:CD1	2.46	0.51
1:D:812:SER:OG	1:D:815:LEU:HD13	2.10	0.51
1:E:1:MET:O	1:E:4:PHE:HB3	2.10	0.51
1:E:428:ARG:H	1:E:428:ARG:CD	2.17	0.51
1:F:49:TYR:HE1	1:F:121:GLU:CG	2.23	0.51
1:F:391:ASN:HB2	1:F:394:THR:H	1.75	0.51
1:A:210:GLN:HB2	1:A:249:ILE:HD12	1.93	0.51
1:A:225:VAL:HG12	1:B:780:MET:HE2	1.93	0.51
1:A:367:ILE:CD1	1:A:413:VAL:HG22	2.40	0.51
1:B:415:ASN:ND2	1:B:434:SER:HB2	2.22	0.51
1:C:169:THR:HG23	1:C:172:VAL:HG21	1.92	0.51
1:C:891:TYR:CD1	1:C:896:ILE:HD11	2.46	0.51
1:C:944:ILE:HD11	1:C:1020:VAL:HB	1.93	0.51
1:C:977:SER:OG	1:C:1009:MET:HE1	2.11	0.51
1:D:193:LEU:HD21	1:D:265:VAL:HG13	1.92	0.51
1:D:213:GLN:CG	1:E:56:THR:HG23	2.41	0.51
1:E:423:GLU:OE2	1:E:433:LYS:HE3	2.10	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:15:ILE:HG13	1:F:16:ALA:N	2.24	0.51
1:F:109:ASN:HA	1:F:112:GLN:CD	2.31	0.51
1:F:143:VAL:O	1:F:321:MET:HA	2.10	0.51
1:F:527:TYR:HD1	1:F:1018:PHE:CE2	2.29	0.51
1:F:682:LEU:HD11	1:F:843:VAL:CG1	2.39	0.51
1:F:687:GLN:NE2	1:F:855:GLY:HA3	2.26	0.51
1:A:15:ILE:HD13	1:A:15:ILE:C	2.31	0.51
1:A:62:VAL:O	1:A:65:ILE:HD13	2.10	0.51
1:A:273:GLN:NE2	1:A:769:ARG:HD2	2.25	0.51
1:A:376:LEU:O	1:A:379:THR:CG2	2.59	0.51
1:A:780:MET:SD	1:C:228:GLN:HG3	2.51	0.51
1:B:367:ILE:HB	1:B:368:PRO:CD	2.38	0.51
1:C:49:TYR:HE1	1:C:121:GLU:CG	2.23	0.51
1:C:609:VAL:HG22	1:C:629:ILE:HG23	1.91	0.51
1:D:156:ASN:ND2	1:D:768:LYS:NZ	2.58	0.51
1:F:247:GLU:HB3	1:F:263:LYS:HE2	1.93	0.51
1:F:607:SER:HB2	1:F:632:LYS:HG2	1.93	0.51
1:A:548:ILE:HG23	1:A:909:ILE:HD13	1.93	0.51
1:A:704:MET:O	1:A:707:ALA:HB3	2.11	0.51
1:A:723:GLU:HG2	1:A:813:PRO:HG3	1.90	0.51
1:C:80:SER:HA	1:C:90:ILE:HA	1.93	0.51
1:C:680:PHE:HE2	1:C:682:LEU:HD12	1.76	0.51
1:D:423:GLU:HB3	1:D:425:LEU:HD13	1.92	0.51
1:D:572:LEU:HB3	1:D:629:ILE:HB	1.92	0.51
1:D:594:MET:O	1:D:595:ARG:C	2.49	0.51
1:F:446:ALA:O	1:F:450:SER:HB2	2.10	0.51
1:F:1001:ILE:HG13	1:F:1002:GLY:H	1.76	0.51
1:A:115:THR:HA	1:A:118:LEU:HD13	1.92	0.51
1:A:708:GLN:HA	1:A:708:GLN:HE21	1.76	0.51
1:A:875:LEU:HD12	1:A:876:TYR:N	2.26	0.51
1:B:1:MET:O	1:B:4:PHE:HB3	2.11	0.51
1:B:517:ASN:O	1:B:521:LEU:HB2	2.11	0.51
1:B:969:ARG:O	1:B:973:ILE:HG23	2.10	0.51
1:C:150:THR:HG23	1:C:152:GLU:H	1.76	0.51
1:C:367:ILE:CG1	1:C:368:PRO:HD3	2.41	0.51
1:C:456:MET:HE3	1:C:931:LEU:HD12	1.91	0.51
1:C:545:TYR:CD1	1:C:1023:PHE:HZ	2.30	0.51
1:C:891:TYR:CG	1:C:896:ILE:HD11	2.46	0.51
1:D:344:LEU:O	1:D:348:ILE:HG22	2.11	0.51
1:D:428:ARG:HH12	1:D:432:ARG:NE	2.09	0.51
1:E:418:ARG:CZ	1:E:968:MET:HE3	2.41	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:584:ALA:O	1:E:588:GLN:HB2	2.11	0.51
1:F:303:ALA:O	1:F:307:ARG:HB2	2.11	0.51
1:A:865:GLU:O	1:A:866:ARG:HB2	2.11	0.50
1:A:909:ILE:C	1:A:911:ALA:H	2.14	0.50
1:A:930:LEU:O	1:A:933:THR:HG22	2.10	0.50
1:B:586:ARG:O	1:B:589:VAL:HG12	2.10	0.50
1:D:146:ASP:C	1:D:148:SER:H	2.14	0.50
1:D:375:VAL:CG2	1:D:405:LEU:HG	2.24	0.50
1:E:11:PHE:CD1	1:F:889:ALA:HB1	2.46	0.50
1:E:751:ILE:O	1:E:773:GLN:HA	2.11	0.50
1:F:150:THR:HG23	1:F:152:GLU:H	1.76	0.50
1:F:188:LEU:HA	1:F:266:ALA:HB2	1.92	0.50
1:F:980:PHE:HE2	1:F:1005:VAL:HG13	1.75	0.50
1:A:6:ILE:H	1:A:6:ILE:HD12	1.75	0.50
1:A:518:ARG:O	1:A:522:SER:N	2.41	0.50
1:A:655:PHE:HD2	1:A:658:PHE:HE2	1.60	0.50
1:A:699:ARG:O	1:A:703:LEU:HD23	2.11	0.50
1:A:753:TRP:CH2	1:A:785:LEU:HA	2.46	0.50
1:B:239:ARG:HD3	1:B:760:ASP:O	2.11	0.50
1:B:681:ASP:C	1:B:681:ASP:OD1	2.48	0.50
1:B:906:LEU:O	1:B:1011:THR:HG23	2.11	0.50
1:C:143:VAL:O	1:C:321:MET:HA	2.11	0.50
1:C:247:GLU:HB3	1:C:263:LYS:HE2	1.94	0.50
1:C:466:ILE:O	1:C:469:GLN:HB2	2.11	0.50
1:C:872:ALA:HB1	1:C:876:TYR:CE1	2.45	0.50
1:D:195:SER:C	1:D:197:GLN:H	2.15	0.50
1:D:884:PHE:HB2	1:D:901:MET:HE2	1.93	0.50
1:E:8:ARG:HB3	1:F:892:GLU:OE1	2.10	0.50
1:E:312:ASN:N	1:E:312:ASN:HD22	2.09	0.50
1:F:142:VAL:CG1	1:F:154:LEU:HD22	2.41	0.50
1:A:156:ASN:ND2	1:A:182:TYR:H	2.09	0.50
1:C:135:ASN:O	1:C:292:LYS:HG2	2.11	0.50
1:C:379:THR:HB	1:C:398:MET:HE3	1.93	0.50
1:C:973:ILE:HD11	1:C:1017:ILE:HG22	1.93	0.50
1:D:544:ILE:HG23	1:D:1019:TRP:HH2	1.76	0.50
1:D:753:TRP:CH2	1:D:785:LEU:HA	2.47	0.50
1:E:20:MET:CE	1:E:374:VAL:HG23	2.41	0.50
1:E:758:VAL:HG21	1:E:772:LEU:HB2	1.92	0.50
1:E:882:VAL:HG13	2:E:2032:LMT:H121	1.92	0.50
1:F:27:ILE:HD11	1:F:380:PHE:CD1	2.45	0.50
1:F:466:ILE:O	1:F:469:GLN:HB2	2.12	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:133:VAL:HG12	1:A:293:LEU:O	2.12	0.50
1:A:355:MET:HE2	1:A:410:ILE:HD11	1.93	0.50
1:A:538:ARG:HG3	1:A:1022:LEU:CD2	2.42	0.50
1:A:562:ALA:O	1:A:923:ASP:HA	2.11	0.50
1:A:593:SER:HB3	1:A:658:PHE:CZ	2.46	0.50
1:B:2:SER:HB3	1:B:486:LEU:O	2.11	0.50
1:B:584:ALA:O	1:B:588:GLN:HB2	2.11	0.50
1:C:534:ILE:HD12	1:C:1022:LEU:HD12	1.94	0.50
1:F:478:MET:O	1:F:481:SER:HB3	2.10	0.50
1:F:680:PHE:HE2	1:F:682:LEU:HD12	1.77	0.50
1:A:498:LYS:N	1:A:499:PRO:CD	2.62	0.50
1:A:896:ILE:N	1:A:897:PRO:CD	2.74	0.50
1:B:367:ILE:HD13	1:B:496:MET:HE2	1.92	0.50
1:B:751:ILE:O	1:B:773:GLN:HA	2.11	0.50
1:C:166:LEU:HA	1:C:169:THR:HG22	1.94	0.50
1:C:214:ILE:CG1	1:C:237:LYS:HB2	2.41	0.50
1:C:711:ALA:HB3	1:C:712:LEU:HD23	1.94	0.50
1:D:538:ARG:HG3	1:D:1022:LEU:CD2	2.42	0.50
1:D:655:PHE:HD2	1:D:658:PHE:HE2	1.59	0.50
1:D:751:ILE:CG2	1:D:772:LEU:HD13	2.42	0.50
1:D:785:LEU:HD11	1:F:219:LEU:HD21	1.93	0.50
1:D:909:ILE:C	1:D:911:ALA:H	2.14	0.50
1:E:896:ILE:N	1:E:897:PRO:CD	2.75	0.50
1:A:131:LYS:O	1:A:131:LYS:HG3	2.12	0.50
1:A:438:ILE:O	1:A:442:LEU:HD13	2.12	0.50
1:A:637:ARG:O	1:A:642:ASN:HB2	2.12	0.50
1:A:913:LEU:O	1:A:917:MET:HG2	2.12	0.50
1:A:958:ILE:HD13	1:A:959:VAL:H	1.76	0.50
1:A:1003:THR:HG23	1:A:1004:GLY:N	2.27	0.50
1:B:528:GLU:HB3	1:B:963:ILE:HD11	1.94	0.50
1:B:1030:LEU:HD22	1:B:1030:LEU:O	2.12	0.50
1:C:183:SER:OG	1:C:273:GLN:HG3	2.12	0.50
1:C:192:LYS:HD3	1:C:264:ASP:O	2.11	0.50
1:C:317:MET:HB3	1:C:321:MET:SD	2.51	0.50
1:D:160:SER:O	1:D:766:ARG:NH1	2.45	0.50
1:D:210:GLN:NE2	1:D:249:ILE:HG13	2.26	0.50
1:D:273:GLN:NE2	1:D:769:ARG:HD2	2.27	0.50
1:D:576:VAL:HB	1:D:625:GLY:O	2.11	0.50
1:D:724:PRO:CA	1:D:810:TYR:HB2	2.42	0.50
1:E:16:ALA:HB2	1:E:488:LEU:HG	1.93	0.50
1:A:235:ILE:HD13	1:A:235:ILE:H	1.76	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:418:ARG:CZ	1:B:968:MET:HE3	2.42	0.50
1:B:569:GLN:O	1:B:571:VAL:N	2.44	0.50
1:D:637:ARG:HB2	1:D:642:ASN:HB3	1.94	0.50
1:E:38:ILE:HG13	1:E:462:SER:HB2	1.94	0.50
1:E:489:THR:OG1	1:E:490:PRO:HD3	2.12	0.50
1:F:192:LYS:HD3	1:F:264:ASP:O	2.12	0.50
1:F:872:ALA:HB1	1:F:876:TYR:CE1	2.47	0.50
1:A:585:GLU:O	1:A:589:VAL:HG23	2.10	0.50
1:A:637:ARG:HB2	1:A:642:ASN:HB3	1.93	0.50
1:A:739:GLY:HA3	1:A:793:ASP:HB2	1.94	0.50
1:B:102:ILE:O	1:B:105:VAL:HG12	2.12	0.50
1:B:235:ILE:O	1:B:235:ILE:HG13	2.11	0.50
1:B:423:GLU:OE2	1:B:433:LYS:HE3	2.11	0.50
1:B:944:ILE:HD11	1:B:1020:VAL:HG11	1.92	0.50
1:C:281:PHE:O	1:C:282:ASN:HB2	2.11	0.50
1:D:262:LEU:HD22	1:D:263:LYS:N	2.26	0.50
1:D:573:PHE:HB2	1:D:666:PHE:CD2	2.47	0.50
1:E:219:LEU:HD12	1:F:726:TYR:CE1	2.46	0.50
1:E:515:TRP:CZ2	1:E:519:MET:HG3	2.47	0.50
1:F:188:LEU:HD21	1:F:203:VAL:HG11	1.94	0.50
1:F:367:ILE:CG1	1:F:368:PRO:HD3	2.41	0.50
1:A:156:ASN:HD22	1:A:182:TYR:H	1.59	0.50
1:B:224:ALA:HB1	1:C:780:MET:SD	2.51	0.50
1:B:352:PHE:HD1	1:B:365:THR:HG23	1.77	0.50
1:D:865:GLU:O	1:D:866:ARG:HB2	2.12	0.50
1:E:235:ILE:O	1:E:235:ILE:HG13	2.12	0.50
1:E:371:ALA:O	1:E:374:VAL:HG12	2.12	0.50
1:F:65:ILE:CD1	1:F:90:ILE:HG12	2.42	0.50
1:F:658:PHE:O	1:F:659:LYS:C	2.50	0.50
1:F:891:TYR:CG	1:F:896:ILE:HD11	2.47	0.50
1:A:195:SER:C	1:A:197:GLN:H	2.14	0.49
1:A:449:LEU:O	1:A:449:LEU:HD13	2.12	0.49
1:A:818:TYR:O	1:A:820:GLY:N	2.45	0.49
1:B:896:ILE:N	1:B:897:PRO:CD	2.75	0.49
1:C:939:LYS:HZ1	1:C:976:THR:HG22	1.77	0.49
1:E:46:GLN:HE22	2:E:2033:LMT:C4	2.25	0.49
1:F:139:VAL:O	1:F:326:PRO:HD2	2.11	0.49
1:F:166:LEU:HD21	1:F:310:ILE:HG23	1.93	0.49
1:F:317:MET:HB3	1:F:321:MET:SD	2.52	0.49
1:F:612:VAL:HG11	1:F:615:PHE:HB3	1.94	0.49
1:F:891:TYR:CD1	1:F:896:ILE:HD11	2.47	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:175:PHE:CD1	1:A:289:ILE:HD11	2.47	0.49
1:A:766:ARG:NE	1:B:67:GLN:NE2	2.60	0.49
1:B:156:ASN:ND2	1:B:182:TYR:H	2.10	0.49
1:B:188:LEU:HD11	1:B:772:LEU:HD21	1.94	0.49
1:B:343:THR:HA	1:B:346:GLU:HG2	1.94	0.49
1:B:391:ASN:H	1:B:394:THR:HG22	1.75	0.49
1:B:616:ASN:CG	1:B:624:SER:HB2	2.33	0.49
1:D:17:LEU:HD21	2:D:2026:LMT:H81	1.92	0.49
1:D:131:LYS:O	1:D:131:LYS:HG3	2.11	0.49
1:D:155:SER:OG	1:D:179:GLY:HA3	2.11	0.49
1:D:222:LEU:HD23	1:E:622:GLN:NE2	2.26	0.49
1:D:356:TYR:HE1	1:D:513:PHE:CZ	2.30	0.49
1:E:553:ILE:O	1:E:557:THR:HG23	2.12	0.49
1:E:786:SER:HB2	1:E:801:ASN:OD1	2.12	0.49
1:F:80:SER:HA	1:F:90:ILE:HA	1.94	0.49
1:F:977:SER:OG	1:F:1009:MET:HE1	2.12	0.49
1:A:708:GLN:HA	1:A:708:GLN:NE2	2.27	0.49
1:B:185:ARG:NH2	1:B:771:TYR:HB3	2.27	0.49
1:C:186:ILE:HG13	1:C:772:LEU:HD23	1.94	0.49
1:C:213:GLN:HG2	1:C:239:ARG:HG3	1.93	0.49
1:C:453:PHE:CE2	1:C:474:ILE:HD12	2.47	0.49
1:C:818:TYR:CD1	1:C:823:ALA:HB3	2.46	0.49
1:D:875:LEU:CD1	1:D:931:LEU:HD11	2.43	0.49
1:E:47:VAL:H	1:E:88:MET:CE	2.25	0.49
1:F:135:ASN:O	1:F:292:LYS:HG2	2.12	0.49
1:F:186:ILE:HG13	1:F:772:LEU:HD23	1.95	0.49
1:F:757:TYR:CD1	1:F:769:ARG:HD3	2.48	0.49
1:F:902:LEU:HD13	1:F:1023:PHE:CD2	2.47	0.49
1:A:170:LYS:HE3	1:A:170:LYS:CA	2.37	0.49
1:A:439:GLN:O	1:A:443:VAL:HG23	2.11	0.49
1:A:498:LYS:H	1:A:499:PRO:HD3	1.75	0.49
1:A:576:VAL:HB	1:A:625:GLY:O	2.13	0.49
1:A:749:VAL:HG13	1:A:753:TRP:CD1	2.46	0.49
1:B:246:PHE:O	1:B:249:ILE:HD11	2.12	0.49
1:C:139:VAL:O	1:C:326:PRO:HD2	2.12	0.49
1:C:358:PHE:CD1	1:C:975:MET:HG2	2.48	0.49
1:C:433:LYS:HD2	1:C:437:GLN:HE21	1.76	0.49
1:C:692:HIS:O	1:C:696:LEU:HB2	2.11	0.49
1:C:695:LEU:CD1	1:C:699:ARG:HH22	2.25	0.49
1:C:757:TYR:CD1	1:C:769:ARG:HD3	2.47	0.49
1:D:355:MET:HE1	1:D:406:VAL:CG1	2.42	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:562:ALA:O	1:D:923:ASP:HA	2.12	0.49
1:D:875:LEU:HD12	1:D:876:TYR:N	2.27	0.49
1:D:996:GLY:N	1:D:999:HIS:CD2	2.78	0.49
1:E:53:SER:O	1:E:57:VAL:HG12	2.12	0.49
1:E:352:PHE:CD2	1:E:353:LEU:HD23	2.48	0.49
1:A:535:LEU:CD2	1:A:963:ILE:HD11	2.42	0.49
1:A:730:ILE:CD1	1:A:745:ILE:HD11	2.43	0.49
1:B:158:ILE:CG2	1:B:162:ILE:HD11	2.39	0.49
1:B:428:ARG:H	1:B:428:ARG:CD	2.16	0.49
1:C:65:ILE:CD1	1:C:90:ILE:HG12	2.42	0.49
1:C:682:LEU:HD11	1:C:843:VAL:CG1	2.41	0.49
1:C:903:VAL:CG2	1:C:1020:VAL:HG22	2.43	0.49
1:D:170:LYS:HE3	1:D:170:LYS:CA	2.40	0.49
1:D:453:PHE:HE2	1:D:932:THR:HG22	1.77	0.49
1:D:753:TRP:CB	1:F:217:GLY:H	2.25	0.49
1:D:896:ILE:N	1:D:897:PRO:CD	2.75	0.49
1:E:904:VAL:O	1:E:908:VAL:HG23	2.12	0.49
1:A:730:ILE:HD12	1:A:745:ILE:HD11	1.93	0.49
1:B:104:GLN:HE21	1:B:131:LYS:HE2	1.77	0.49
1:C:227:GLY:O	1:C:229:GLN:HG3	2.13	0.49
1:C:658:PHE:O	1:C:659:LYS:C	2.50	0.49
1:D:194:ASN:HD22	1:D:797:MET:HG2	1.77	0.49
1:D:217:GLY:O	1:D:234:ILE:HG12	2.12	0.49
1:D:518:ARG:O	1:D:522:SER:HB3	2.12	0.49
1:E:352:PHE:HD1	1:E:365:THR:HG23	1.78	0.49
1:E:616:ASN:CG	1:E:624:SER:HB2	2.33	0.49
1:E:1023:PHE:O	1:E:1027:VAL:HG23	2.13	0.49
1:F:154:LEU:O	1:F:157:TYR:HB3	2.13	0.49
1:F:183:SER:OG	1:F:273:GLN:HG3	2.13	0.49
1:F:711:ALA:HB3	1:F:712:LEU:HD23	1.94	0.49
1:F:872:ALA:HB3	1:F:873:PRO:HD3	1.94	0.49
1:A:544:ILE:HG23	1:A:1019:TRP:HH2	1.78	0.49
1:A:780:MET:HE3	1:C:225:VAL:N	2.28	0.49
1:B:944:ILE:HG22	1:B:969:ARG:HG3	1.95	0.49
1:B:953:GLU:C	1:B:955:GLY:H	2.16	0.49
1:C:969:ARG:C	1:C:972:PRO:HD2	2.33	0.49
1:D:170:LYS:HZ3	1:E:74:ASN:H	1.56	0.49
1:E:239:ARG:HD3	1:E:760:ASP:O	2.12	0.49
1:E:578:THR:HG21	1:E:587:THR:HB	1.95	0.49
1:F:143:VAL:HG23	1:F:324:VAL:HG21	1.95	0.49
1:A:696:LEU:HD13	1:A:699:ARG:NH1	2.28	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:445:ILE:HG22	1:B:942:ILE:CD1	2.43	0.49
1:B:515:TRP:CZ2	1:B:519:MET:HG3	2.48	0.49
1:D:532:ALA:HA	1:D:535:LEU:HB2	1.94	0.49
1:D:699:ARG:O	1:D:703:LEU:HD23	2.13	0.49
1:E:76:ARG:HD3	1:E:863:TYR:CE2	2.48	0.49
1:E:426:SER:HB2	1:E:427:PRO:HD2	1.94	0.49
1:F:443:VAL:O	1:F:447:MET:HB2	2.12	0.49
1:F:759:ASN:H	1:F:770:VAL:HG22	1.77	0.49
1:A:146:ASP:C	1:A:148:SER:H	2.14	0.49
1:A:840:MET:HA	1:A:844:GLU:HB2	1.94	0.49
1:B:635:GLU:H	1:B:635:GLU:CD	2.16	0.49
1:C:143:VAL:HG23	1:C:324:VAL:HG21	1.94	0.49
1:C:695:LEU:HD13	1:C:699:ARG:HH12	1.78	0.49
1:C:759:ASN:H	1:C:770:VAL:HG22	1.78	0.49
1:C:985:VAL:CG2	1:C:986:PRO:HD3	2.43	0.49
1:D:724:PRO:HA	1:D:810:TYR:CB	2.43	0.49
1:E:367:ILE:HD13	1:E:496:MET:HE2	1.95	0.49
1:E:1001:ILE:HG13	1:E:1002:GLY:N	2.27	0.49
1:A:235:ILE:HD13	1:A:235:ILE:N	2.28	0.49
1:A:538:ARG:C	1:A:538:ARG:HE	2.17	0.49
1:A:952:HIS:CE1	1:A:958:ILE:HG22	2.48	0.49
1:B:312:ASN:HD22	1:B:312:ASN:N	2.11	0.49
1:B:786:SER:HB2	1:B:801:ASN:OD1	2.13	0.49
1:C:438:ILE:C	1:C:440:GLY:H	2.16	0.49
1:E:445:ILE:HG22	1:E:942:ILE:CD1	2.43	0.49
1:E:571:VAL:HG23	1:E:668:PRO:HG2	1.95	0.49
1:E:973:ILE:HD11	1:E:1017:ILE:CG2	2.43	0.49
1:E:1030:LEU:O	1:E:1030:LEU:HD22	2.12	0.49
1:A:193:LEU:HD21	1:A:265:VAL:HG13	1.94	0.48
1:B:753:TRP:CH2	1:B:785:LEU:HG	2.48	0.48
1:B:843:VAL:O	1:B:847:VAL:HG23	2.13	0.48
1:C:188:LEU:HD21	1:C:203:VAL:HG11	1.94	0.48
1:D:316:PHE:CG	1:E:687:GLN:HB2	2.47	0.48
1:D:449:LEU:O	1:D:449:LEU:HD13	2.13	0.48
1:D:489:THR:HB	1:D:490:PRO:HD3	1.94	0.48
1:D:698:ALA:HB2	1:D:851:PRO:HG2	1.93	0.48
1:E:4:PHE:CZ	1:E:8:ARG:HD2	2.47	0.48
1:E:102:ILE:O	1:E:105:VAL:HG12	2.13	0.48
1:F:576:VAL:HG22	1:F:663:VAL:HG12	1.95	0.48
1:F:690:VAL:HG11	1:F:694:VAL:HG11	1.95	0.48
1:A:85:ASP:OD2	1:A:620:ARG:HG3	2.13	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:143:VAL:HG22	1:A:286:ALA:HB2	1.95	0.48
1:A:428:ARG:HH12	1:A:432:ARG:NE	2.10	0.48
1:B:904:VAL:HG22	1:B:934:ILE:HD12	1.95	0.48
1:C:973:ILE:CD1	1:C:1017:ILE:HG22	2.43	0.48
1:D:438:ILE:O	1:D:442:LEU:HD13	2.12	0.48
1:E:156:ASN:ND2	1:E:182:TYR:N	2.60	0.48
1:F:213:GLN:HG2	1:F:239:ARG:HG3	1.95	0.48
1:A:418:ARG:HD3	1:A:419:VAL:N	2.28	0.48
1:B:565:PRO:HG3	1:B:923:ASP:HB3	1.95	0.48
1:B:1001:ILE:HG13	1:B:1002:GLY:N	2.28	0.48
1:C:886:CYS:O	1:C:890:LEU:HB2	2.14	0.48
1:C:924:VAL:O	1:C:928:VAL:HG23	2.13	0.48
1:D:80:SER:HA	1:D:90:ILE:HA	1.94	0.48
1:D:115:THR:HA	1:D:118:LEU:HD13	1.95	0.48
1:D:418:ARG:HD3	1:D:419:VAL:N	2.28	0.48
1:E:234:ILE:HG22	1:F:726:TYR:CB	2.31	0.48
1:F:45:VAL:HG22	1:F:129:VAL:HG22	1.95	0.48
1:F:185:ARG:HH11	1:F:771:TYR:CB	2.26	0.48
1:A:416:VAL:HG12	1:A:420:MET:HE2	1.95	0.48
1:B:69:MET:HE3	1:B:107:VAL:HG22	1.95	0.48
1:B:104:GLN:O	1:B:107:VAL:HG12	2.13	0.48
1:C:579:PRO:HG3	1:C:660:ASP:CG	2.34	0.48
1:D:175:PHE:CD1	1:D:289:ILE:HD11	2.48	0.48
1:D:367:ILE:HG12	1:D:368:PRO:CD	2.43	0.48
1:D:713:GLN:OE1	1:D:832:PRO:HD3	2.14	0.48
1:E:528:GLU:HB3	1:E:963:ILE:HD11	1.95	0.48
1:F:969:ARG:C	1:F:972:PRO:HD2	2.34	0.48
1:A:573:PHE:HB2	1:A:666:PHE:CD2	2.48	0.48
1:A:751:ILE:CG2	1:A:772:LEU:HD13	2.44	0.48
1:A:753:TRP:HB2	1:C:217:GLY:H	1.78	0.48
1:B:318:PRO:HD2	1:B:321:MET:HG3	1.95	0.48
1:B:936:LEU:HD12	1:B:1009:MET:CE	2.43	0.48
1:C:154:LEU:O	1:C:157:TYR:HB3	2.14	0.48
1:C:214:ILE:HG12	1:C:237:LYS:HB2	1.96	0.48
1:D:34:GLN:O	1:D:392:THR:HG23	2.13	0.48
1:D:416:VAL:HG12	1:D:420:MET:HE2	1.95	0.48
1:D:1003:THR:HG23	1:D:1004:GLY:N	2.29	0.48
1:E:246:PHE:O	1:E:249:ILE:HD11	2.13	0.48
1:E:635:GLU:H	1:E:635:GLU:CD	2.16	0.48
1:F:314:GLU:N	1:F:315:PRO:CD	2.76	0.48
1:F:527:TYR:O	1:F:531:VAL:HG23	2.14	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:695:LEU:CD1	1:F:699:ARG:HH22	2.27	0.48
1:F:924:VAL:O	1:F:928:VAL:HG23	2.13	0.48
1:A:838:ASP:O	1:A:839:ALA:C	2.51	0.48
1:A:916:SER:O	1:A:917:MET:C	2.52	0.48
1:C:142:VAL:CG1	1:C:154:LEU:HD22	2.43	0.48
1:C:166:LEU:HD21	1:C:310:ILE:HG23	1.94	0.48
1:D:57:VAL:CG1	1:D:88:MET:HB3	2.43	0.48
1:D:316:PHE:CE2	1:E:687:GLN:HG3	2.48	0.48
1:D:416:VAL:HG11	1:D:497:LEU:HD23	1.96	0.48
1:D:845:GLU:HA	1:D:845:GLU:OE2	2.13	0.48
1:E:108:GLN:O	1:E:111:LEU:HB3	2.12	0.48
1:F:166:LEU:HA	1:F:169:THR:HG22	1.95	0.48
1:A:826:ILE:HD12	1:A:827:LEU:N	2.27	0.48
1:B:575:GLN:HE21	1:B:617:PHE:HB2	1.78	0.48
1:B:577:GLN:HG3	1:B:616:ASN:HD21	1.78	0.48
1:E:104:GLN:HE21	1:E:131:LYS:HE2	1.79	0.48
1:E:162:ILE:HG22	1:E:313:LEU:CD1	2.31	0.48
1:F:43:ILE:HD11	1:F:107:VAL:HG21	1.93	0.48
1:F:442:LEU:HD12	1:F:486:LEU:HD21	1.96	0.48
1:F:545:TYR:CD1	1:F:1023:PHE:HZ	2.31	0.48
1:A:944:ILE:HD11	1:A:1020:VAL:HB	1.95	0.48
2:A:2026:LMT:H82	2:A:2026:LMT:C12	2.37	0.48
1:B:435:MET:CE	1:B:490:PRO:HG3	2.44	0.48
1:B:571:VAL:HG23	1:B:668:PRO:HG2	1.96	0.48
1:B:572:LEU:HD23	1:B:573:PHE:N	2.29	0.48
1:B:707:ALA:C	1:B:709:ASN:H	2.17	0.48
1:B:742:LEU:HA	1:B:745:ILE:HG22	1.96	0.48
1:B:944:ILE:HG22	1:B:969:ARG:CG	2.44	0.48
1:C:156:ASN:OD1	1:C:180:SER:O	2.32	0.48
1:C:162:ILE:O	1:C:165:PRO:HD2	2.14	0.48
1:D:7:ASP:C	1:D:9:PRO:HD3	2.34	0.48
1:D:96:GLN:HA	1:D:96:GLN:NE2	2.29	0.48
1:D:162:ILE:CG2	1:D:166:LEU:HD23	2.44	0.48
1:D:262:LEU:HD11	1:D:266:ALA:H	1.79	0.48
1:D:498:LYS:H	1:D:499:PRO:HD3	1.73	0.48
1:D:944:ILE:HD11	1:D:1020:VAL:HB	1.96	0.48
1:E:571:VAL:HG12	1:E:630:MET:SD	2.54	0.48
1:F:1020:VAL:N	1:F:1021:PRO:CD	2.77	0.48
1:A:217:GLY:O	1:A:234:ILE:HG12	2.14	0.48
1:A:356:TYR:HE1	1:A:513:PHE:CZ	2.31	0.48
1:A:808:TRP:CE3	1:D:708:GLN:HB3	2.49	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:156:ASN:ND2	1:B:182:TYR:N	2.62	0.48
1:C:690:VAL:HG11	1:C:694:VAL:HG11	1.95	0.48
1:D:356:TYR:O	1:D:356:TYR:HD1	1.96	0.48
1:D:766:ARG:NE	1:E:67:GLN:NE2	2.62	0.48
1:D:940:ASN:HB3	1:D:973:ILE:HG22	1.96	0.48
1:E:944:ILE:HD11	1:E:1020:VAL:CG1	2.43	0.48
1:F:169:THR:HG23	1:F:172:VAL:HG21	1.95	0.48
1:A:724:PRO:CA	1:A:810:TYR:HB2	2.40	0.48
1:A:984:VAL:HG21	1:A:1005:VAL:HG11	1.96	0.48
1:B:571:VAL:HG12	1:B:630:MET:SD	2.53	0.48
1:D:535:LEU:HD22	1:D:963:ILE:HD11	1.94	0.48
1:D:741:SER:OG	1:D:744:ASP:HB2	2.14	0.48
1:E:618:ALA:O	1:E:719:GLY:HA2	2.14	0.48
1:E:742:LEU:HA	1:E:745:ILE:HG22	1.95	0.48
1:F:242:THR:HG22	1:F:245:GLN:OE1	2.14	0.48
1:F:973:ILE:HD11	1:F:1017:ILE:HG22	1.95	0.48
1:A:46:GLN:HG2	1:A:89:THR:HG23	1.96	0.47
1:A:57:VAL:CG1	1:A:88:MET:HB3	2.43	0.47
1:B:156:ASN:HD21	1:B:768:LYS:HZ3	1.61	0.47
1:B:578:THR:HG21	1:B:587:THR:HB	1.95	0.47
1:C:612:VAL:HG11	1:C:615:PHE:HB3	1.95	0.47
1:D:376:LEU:O	1:D:379:THR:CG2	2.61	0.47
1:D:682:LEU:HD23	1:D:683:PHE:N	2.29	0.47
1:D:730:ILE:HD12	1:D:745:ILE:HD11	1.94	0.47
1:D:730:ILE:CD1	1:D:745:ILE:HD11	2.45	0.47
1:D:838:ASP:O	1:D:839:ALA:C	2.52	0.47
1:D:916:SER:O	1:D:917:MET:C	2.51	0.47
1:E:185:ARG:NH2	1:E:771:TYR:HB3	2.28	0.47
1:E:550:ALA:O	1:E:553:ILE:HG12	2.13	0.47
1:E:817:ARG:NH1	1:E:817:ARG:CG	2.72	0.47
1:F:190:PRO:HG3	1:F:788:TRP:CE2	2.48	0.47
1:F:379:THR:HB	1:F:398:MET:HE3	1.94	0.47
1:A:13:TRP:CG	2:A:2026:LMT:H22	2.49	0.47
1:A:875:LEU:CD1	1:A:931:LEU:HD11	2.42	0.47
1:A:876:TYR:O	1:A:880:LEU:HD23	2.13	0.47
1:A:940:ASN:HB3	1:A:973:ILE:HG22	1.95	0.47
1:A:996:GLY:N	1:A:999:HIS:CD2	2.81	0.47
1:B:43:ILE:CG2	1:B:107:VAL:HG11	2.20	0.47
1:B:281:PHE:O	1:B:282:ASN:HB2	2.14	0.47
1:C:15:ILE:HG13	1:C:16:ALA:N	2.27	0.47
1:C:190:PRO:HG3	1:C:788:TRP:CE2	2.49	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:699:ARG:NH1	1:C:699:ARG:CG	2.61	0.47
1:D:395:MET:O	1:D:399:VAL:HG12	2.14	0.47
1:D:637:ARG:O	1:D:642:ASN:HB2	2.13	0.47
1:D:745:ILE:O	1:D:749:VAL:HG23	2.14	0.47
1:D:818:TYR:O	1:D:820:GLY:N	2.46	0.47
1:E:343:THR:HA	1:E:346:GLU:HG2	1.95	0.47
1:E:363:ARG:NE	1:E:498:LYS:HE3	2.29	0.47
1:E:821:VAL:HG12	1:E:822:PRO:CD	2.44	0.47
1:E:907:GLY:HA3	1:E:1012:ALA:HB2	1.95	0.47
1:E:929:GLY:HA2	1:E:932:THR:HG22	1.97	0.47
1:E:953:GLU:C	1:E:955:GLY:N	2.67	0.47
1:F:648:ALA:HB1	1:F:714:ARG:NH1	2.28	0.47
1:A:210:GLN:NE2	1:A:249:ILE:HG13	2.29	0.47
1:B:4:PHE:CZ	1:B:8:ARG:HD2	2.50	0.47
1:C:34:GLN:O	1:C:392:THR:HG22	2.14	0.47
1:C:185:ARG:HH11	1:C:771:TYR:CB	2.27	0.47
1:D:840:MET:HA	1:D:844:GLU:HB2	1.95	0.47
1:E:199:THR:HG22	1:E:201:GLY:H	1.79	0.47
1:E:339:GLU:HG2	1:E:342:LYS:NZ	2.29	0.47
1:E:362:PHE:O	1:E:365:THR:HB	2.13	0.47
1:E:520:PHE:O	1:E:523:THR:HG22	2.14	0.47
1:E:578:THR:CG2	1:E:587:THR:HB	2.45	0.47
1:F:404:LEU:HD13	1:F:449:LEU:HD13	1.96	0.47
1:F:695:LEU:HD13	1:F:699:ARG:HH12	1.78	0.47
1:F:723:GLU:HG3	1:F:813:PRO:HG3	1.96	0.47
1:A:219:LEU:C	1:A:221:GLY:H	2.18	0.47
1:A:535:LEU:HD22	1:A:963:ILE:HD11	1.95	0.47
1:B:371:ALA:O	1:B:374:VAL:HG12	2.14	0.47
1:C:452:VAL:HG22	1:C:883:VAL:CG2	2.44	0.47
1:D:4:PHE:CZ	1:D:8:ARG:HD2	2.49	0.47
1:D:6:ILE:HD12	1:D:6:ILE:H	1.79	0.47
1:D:150:THR:N	1:D:153:ASP:HB2	2.29	0.47
1:D:354:VAL:HG11	1:D:979:ALA:HA	1.97	0.47
1:D:535:LEU:CD2	1:D:963:ILE:HD11	2.44	0.47
1:D:984:VAL:HG21	1:D:1005:VAL:HG11	1.96	0.47
1:E:158:ILE:HG22	1:E:162:ILE:CD1	2.39	0.47
1:E:563:PHE:CD2	1:E:564:LEU:HD22	2.48	0.47
1:E:578:THR:OG1	1:E:579:PRO:HD2	2.14	0.47
1:F:456:MET:HB2	1:F:467:TYR:HB3	1.97	0.47
1:F:587:THR:O	1:F:591:VAL:HG23	2.14	0.47
1:F:903:VAL:CG2	1:F:1020:VAL:HG22	2.43	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:939:LYS:HZ3	1:F:976:THR:CG2	2.27	0.47
1:A:156:ASN:ND2	1:A:768:LYS:NZ	2.61	0.47
1:A:400:LEU:HD12	1:A:470:PHE:CZ	2.47	0.47
1:A:465:VAL:O	1:A:469:GLN:HG2	2.15	0.47
1:B:20:MET:CE	1:B:374:VAL:HG23	2.40	0.47
1:B:108:GLN:O	1:B:111:LEU:HB3	2.13	0.47
1:B:480:LEU:O	1:B:483:ILE:HG23	2.14	0.47
1:B:907:GLY:HA2	1:B:1012:ALA:HB2	1.97	0.47
1:C:242:THR:HG22	1:C:245:GLN:OE1	2.15	0.47
1:C:966:CYS:O	1:C:970:LEU:HB2	2.15	0.47
1:D:190:PRO:C	1:D:192:LYS:H	2.18	0.47
1:D:891:TYR:CG	1:D:896:ILE:HD11	2.49	0.47
1:E:281:PHE:O	1:E:282:ASN:HB2	2.14	0.47
1:E:936:LEU:HD12	1:E:1009:MET:CE	2.44	0.47
1:A:314:GLU:N	1:A:315:PRO:CD	2.77	0.47
1:B:426:SER:HB2	1:B:427:PRO:HD2	1.97	0.47
1:B:563:PHE:CD2	1:B:564:LEU:HD22	2.49	0.47
1:C:544:ILE:HD11	1:C:1019:TRP:HZ2	1.79	0.47
1:D:10:ILE:O	1:D:10:ILE:HG13	2.13	0.47
1:D:705:LEU:HD13	1:D:849:GLN:OE1	2.13	0.47
1:D:982:LEU:HD23	1:D:982:LEU:O	2.15	0.47
1:E:572:LEU:HD23	1:E:573:PHE:N	2.29	0.47
1:F:544:ILE:HD11	1:F:1019:TRP:HZ2	1.80	0.47
1:F:579:PRO:HG3	1:F:660:ASP:CG	2.34	0.47
1:A:99:ASP:OD2	1:A:101:ASP:HB2	2.15	0.47
1:A:190:PRO:HA	1:A:193:LEU:HB2	1.97	0.47
1:A:396:PHE:HA	1:A:399:VAL:CG1	2.44	0.47
1:A:406:VAL:O	1:A:410:ILE:HG12	2.15	0.47
1:A:687:GLN:NE2	1:A:821:VAL:HG21	2.30	0.47
1:A:698:ALA:HB2	1:A:851:PRO:HG2	1.95	0.47
1:A:763:ASP:HB3	1:A:768:LYS:HE3	1.96	0.47
1:A:775:ARG:O	1:A:779:ARG:HG2	2.15	0.47
1:A:958:ILE:HG12	1:A:959:VAL:N	2.29	0.47
1:B:72:ILE:CD1	1:B:75:LEU:HD13	2.42	0.47
1:B:76:ARG:HD3	1:B:863:TYR:CE2	2.49	0.47
1:B:318:PRO:O	1:B:321:MET:HB2	2.15	0.47
1:B:445:ILE:HD12	1:B:939:LYS:HG3	1.97	0.47
1:B:527:TYR:CG	1:B:970:LEU:HD12	2.50	0.47
1:B:568:ASP:O	1:B:569:GLN:C	2.53	0.47
1:B:944:ILE:HD11	1:B:1020:VAL:CG1	2.44	0.47
1:C:314:GLU:N	1:C:315:PRO:CD	2.77	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:406:VAL:HG13	1:C:410:ILE:HG23	1.95	0.47
1:C:587:THR:O	1:C:591:VAL:HG23	2.14	0.47
1:C:872:ALA:HB3	1:C:873:PRO:HD3	1.96	0.47
1:D:85:ASP:OD2	1:D:620:ARG:HG3	2.15	0.47
1:D:227:GLY:O	1:D:229:GLN:HG3	2.15	0.47
1:D:396:PHE:HA	1:D:399:VAL:CG1	2.44	0.47
1:D:485:ALA:HA	1:D:489:THR:OG1	2.14	0.47
1:D:763:ASP:HB3	1:D:768:LYS:HE3	1.97	0.47
1:D:876:TYR:O	1:D:880:LEU:HD23	2.15	0.47
1:E:298:ASN:O	1:E:302:THR:HG22	2.15	0.47
1:E:476:SER:O	1:E:480:LEU:HB2	2.15	0.47
1:E:684:LEU:O	1:E:823:ALA:HA	2.15	0.47
1:F:354:VAL:CG2	1:F:982:LEU:HG	2.45	0.47
1:F:438:ILE:C	1:F:440:GLY:H	2.18	0.47
1:A:7:ASP:C	1:A:9:PRO:HD3	2.36	0.47
1:A:839:ALA:O	1:A:844:GLU:HB2	2.15	0.47
1:B:47:VAL:H	1:B:88:MET:CE	2.26	0.47
1:B:896:ILE:N	1:B:897:PRO:HD2	2.30	0.47
1:C:169:THR:HG23	1:C:172:VAL:CG2	2.45	0.47
1:C:443:VAL:O	1:C:447:MET:HB2	2.15	0.47
1:C:723:GLU:HG3	1:C:813:PRO:HG3	1.96	0.47
1:E:34:GLN:CB	1:E:333:VAL:HG22	2.45	0.47
1:E:158:ILE:CG2	1:E:162:ILE:HD11	2.37	0.47
1:E:376:LEU:O	1:E:379:THR:HG22	2.15	0.47
1:F:162:ILE:O	1:F:165:PRO:HD2	2.15	0.47
1:A:419:VAL:CG2	1:A:430:ALA:HB1	2.42	0.47
1:A:563:PHE:CZ	1:A:564:LEU:HD23	2.49	0.47
1:B:158:ILE:HG22	1:B:162:ILE:CD1	2.41	0.47
1:C:26:SER:O	1:C:30:LEU:HG	2.15	0.47
1:C:648:ALA:HB1	1:C:714:ARG:NH1	2.27	0.47
1:D:456:MET:HE1	1:D:928:VAL:HA	1.97	0.47
1:D:465:VAL:O	1:D:469:GLN:HG2	2.15	0.47
1:E:34:GLN:HG3	1:E:35:TYR:CD2	2.49	0.47
1:E:577:GLN:HG3	1:E:616:ASN:HD21	1.79	0.47
1:F:34:GLN:O	1:F:392:THR:HG22	2.15	0.47
1:A:370:ILE:HD11	1:A:488:LEU:CD1	2.45	0.47
1:A:741:SER:OG	1:A:744:ASP:HB2	2.15	0.47
1:B:38:ILE:HG13	1:B:462:SER:HB2	1.96	0.47
1:B:179:GLY:HA2	2:B:2033:LMT:O3'	2.15	0.47
1:B:215:SER:HB2	1:C:750:SER:CB	2.44	0.47
1:B:363:ARG:NE	1:B:498:LYS:HE3	2.30	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:618:ALA:O	1:B:719:GLY:HA2	2.15	0.47
1:C:463:THR:HG23	1:C:464:GLY:N	2.30	0.47
1:C:859:THR:HG23	1:C:860:GLY:N	2.30	0.47
1:D:235:ILE:HD13	1:D:235:ILE:H	1.80	0.47
1:D:235:ILE:HD13	1:D:235:ILE:N	2.30	0.47
1:D:524:THR:CG2	1:D:970:LEU:HD12	2.45	0.47
1:D:807:LYS:HG3	1:D:808:TRP:N	2.30	0.47
1:D:952:HIS:CE1	1:D:958:ILE:HG22	2.50	0.47
1:E:318:PRO:O	1:E:321:MET:HB2	2.14	0.47
1:E:412:VAL:HG11	1:E:489:THR:OG1	2.15	0.47
1:E:540:PRO:O	1:E:544:ILE:HG22	2.15	0.47
1:F:155:SER:O	1:F:159:VAL:HG23	2.14	0.47
1:A:655:PHE:CD2	1:A:663:VAL:HG11	2.49	0.46
1:B:389:SER:O	1:B:394:THR:HG21	2.15	0.46
1:B:550:ALA:O	1:B:553:ILE:HG12	2.14	0.46
1:C:922:ASN:OD1	1:C:926:PHE:HD2	1.98	0.46
1:D:15:ILE:O	1:D:19:ILE:HG13	2.15	0.46
1:D:219:LEU:C	1:D:221:GLY:H	2.18	0.46
1:D:371:ALA:O	1:D:375:VAL:HG22	2.14	0.46
1:D:930:LEU:O	1:D:933:THR:HG22	2.14	0.46
1:E:207:ILE:HG12	1:E:207:ILE:H	1.61	0.46
1:E:565:PRO:HG3	1:E:923:ASP:HB3	1.96	0.46
1:F:452:VAL:HG22	1:F:883:VAL:CG2	2.44	0.46
1:F:540:PRO:O	1:F:543:LEU:HB2	2.15	0.46
1:F:922:ASN:OD1	1:F:926:PHE:HD2	1.98	0.46
1:A:11:PHE:O	1:A:15:ILE:HG22	2.15	0.46
1:A:96:GLN:NE2	1:A:96:GLN:HA	2.31	0.46
1:A:354:VAL:HG11	1:A:979:ALA:HA	1.96	0.46
1:A:731:ASP:CB	1:A:734:LYS:HB2	2.37	0.46
1:A:943:LEU:HB3	1:A:969:ARG:HH11	1.80	0.46
1:B:553:ILE:O	1:B:557:THR:HG23	2.15	0.46
1:B:702:PHE:CE2	1:B:826:ILE:HD12	2.50	0.46
1:B:817:ARG:NH1	1:B:817:ARG:CG	2.71	0.46
1:C:749:VAL:O	1:C:753:TRP:HD1	1.98	0.46
1:D:158:ILE:HG22	1:D:159:VAL:N	2.29	0.46
1:D:190:PRO:HA	1:D:193:LEU:HB2	1.97	0.46
1:D:493:CYS:HA	1:D:497:LEU:HD22	1.97	0.46
1:D:655:PHE:CD2	1:D:663:VAL:HG11	2.50	0.46
1:F:150:THR:H	1:F:153:ASP:HB2	1.80	0.46
1:F:453:PHE:CE2	1:F:474:ILE:HD12	2.50	0.46
1:A:186:ILE:HG22	1:A:772:LEU:HD23	1.97	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:363:ARG:NH1	1:A:496:MET:O	2.49	0.46
1:A:367:ILE:HG12	1:A:368:PRO:CD	2.44	0.46
1:A:371:ALA:O	1:A:375:VAL:HG22	2.14	0.46
1:A:794:LYS:HD3	1:A:794:LYS:HA	1.66	0.46
1:B:207:ILE:HG12	1:B:207:ILE:H	1.61	0.46
1:D:251:LEU:HD13	1:D:262:LEU:HD23	1.97	0.46
1:D:839:ALA:O	1:D:844:GLU:HB2	2.15	0.46
1:E:578:THR:HA	1:E:661:ALA:HA	1.98	0.46
1:E:681:ASP:OD1	1:E:859:THR:HG23	2.16	0.46
1:E:702:PHE:CE2	1:E:826:ILE:HD12	2.50	0.46
1:F:425:LEU:HD23	1:F:426:SER:H	1.81	0.46
1:F:886:CYS:O	1:F:890:LEU:HB2	2.16	0.46
1:F:985:VAL:N	1:F:986:PRO:CD	2.78	0.46
1:A:456:MET:HE1	1:A:928:VAL:HA	1.96	0.46
1:A:525:HIS:O	1:A:528:GLU:HB2	2.15	0.46
1:A:810:TYR:CD2	1:A:810:TYR:O	2.69	0.46
1:A:982:LEU:HD23	1:A:982:LEU:O	2.16	0.46
1:B:762:ILE:HG22	1:B:767:VAL:HG22	1.97	0.46
1:D:355:MET:CE	1:D:410:ILE:HD11	2.45	0.46
1:D:437:GLN:C	1:D:438:ILE:HG13	2.35	0.46
1:D:573:PHE:CB	1:D:666:PHE:HE2	2.29	0.46
1:E:45:VAL:HB	1:E:90:ILE:CG2	2.41	0.46
1:E:575:GLN:HE21	1:E:617:PHE:HB2	1.81	0.46
1:E:753:TRP:CH2	1:E:785:LEU:HG	2.50	0.46
1:E:907:GLY:HA2	1:E:1012:ALA:HB2	1.96	0.46
1:F:171:GLY:HA3	1:F:302:THR:OG1	2.14	0.46
1:A:4:PHE:CZ	1:A:8:ARG:HD2	2.51	0.46
1:A:70:ASN:ND2	1:C:175:PHE:CE1	2.83	0.46
1:A:682:LEU:HD23	1:A:683:PHE:N	2.30	0.46
1:A:845:GLU:HA	1:A:845:GLU:OE2	2.15	0.46
1:B:317:MET:HE1	1:B:323:VAL:HG23	1.98	0.46
1:B:339:GLU:HG2	1:B:342:LYS:NZ	2.30	0.46
1:B:692:HIS:CD2	1:B:692:HIS:C	2.89	0.46
1:B:907:GLY:HA3	1:B:1012:ALA:HB2	1.96	0.46
1:C:527:TYR:CE2	1:C:966:CYS:HB3	2.51	0.46
1:D:303:ALA:HB2	1:D:330:THR:HG21	1.98	0.46
1:D:958:ILE:HG12	1:D:959:VAL:N	2.30	0.46
1:E:61:VAL:CG2	1:E:122:VAL:HG21	2.46	0.46
1:E:318:PRO:HD2	1:E:321:MET:HG3	1.97	0.46
1:E:389:SER:O	1:E:394:THR:HG21	2.16	0.46
1:E:480:LEU:O	1:E:483:ILE:HG23	2.15	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:725:GLN:OE1	1:E:811:GLY:HA3	2.16	0.46
1:F:527:TYR:CE2	1:F:966:CYS:HB3	2.51	0.46
1:F:749:VAL:O	1:F:753:TRP:HD1	1.98	0.46
1:F:753:TRP:CZ2	1:F:785:LEU:HA	2.51	0.46
1:A:56:THR:CG2	1:C:213:GLN:HB3	2.37	0.46
1:A:227:GLY:O	1:A:229:GLN:HG3	2.15	0.46
1:A:275:TYR:CD1	1:C:223:PRO:HG3	2.50	0.46
1:A:682:LEU:CD2	1:A:856:TYR:HB2	2.41	0.46
1:A:724:PRO:HA	1:A:810:TYR:CB	2.41	0.46
1:B:137:LEU:HD21	1:B:302:THR:HG23	1.97	0.46
1:B:578:THR:CG2	1:B:587:THR:HB	2.45	0.46
1:B:687:GLN:NE2	1:B:821:VAL:HG21	2.23	0.46
1:C:184:MET:CE	1:C:268:VAL:HG13	2.46	0.46
1:C:242:THR:CG2	1:C:245:GLN:HG3	2.45	0.46
1:D:188:LEU:HG	1:D:772:LEU:HD21	1.96	0.46
1:D:792:ASN:CG	1:D:793:ASP:H	2.17	0.46
1:F:242:THR:CG2	1:F:245:GLN:HG3	2.45	0.46
1:F:595:ARG:O	1:F:599:LEU:N	2.48	0.46
1:F:973:ILE:CD1	1:F:1017:ILE:HG22	2.45	0.46
1:A:395:MET:O	1:A:399:VAL:HG12	2.16	0.46
1:B:1006:ILE:HG13	1:B:1007:GLY:N	2.29	0.46
1:C:575:GLN:HE21	1:C:666:PHE:HZ	1.63	0.46
1:C:576:VAL:HG22	1:C:663:VAL:HG12	1.97	0.46
1:C:985:VAL:N	1:C:986:PRO:CD	2.79	0.46
1:D:190:PRO:HG3	1:D:788:TRP:CE2	2.51	0.46
1:D:378:GLY:O	1:D:382:VAL:HG23	2.16	0.46
1:E:15:ILE:O	1:E:19:ILE:HG23	2.16	0.46
1:E:399:VAL:O	1:E:402:ILE:HG12	2.16	0.46
1:E:590:VAL:HG11	1:E:661:ALA:CB	2.45	0.46
1:E:944:ILE:HG22	1:E:969:ARG:CG	2.46	0.46
1:E:958:ILE:HG12	1:E:959:VAL:H	1.81	0.46
1:F:58:GLN:O	1:F:63:GLN:HB2	2.15	0.46
1:F:397:GLY:HA3	1:F:473:THR:HG21	1.97	0.46
1:A:85:ASP:HB3	1:A:87:SER:OG	2.16	0.46
1:A:202:ASP:OD1	1:A:791:ARG:NH2	2.44	0.46
1:A:225:VAL:H	1:B:780:MET:HE1	1.81	0.46
1:B:376:LEU:O	1:B:379:THR:HG22	2.15	0.46
1:B:540:PRO:O	1:B:544:ILE:HG22	2.15	0.46
1:B:590:VAL:HG11	1:B:661:ALA:CB	2.46	0.46
1:D:452:VAL:HG11	1:D:931:LEU:O	2.16	0.46
1:D:1009:MET:O	1:D:1013:THR:HG23	2.16	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:800:PHE:CD2	1:E:804:ALA:HB2	2.50	0.46
1:E:942:ILE:O	1:E:946:GLU:HB2	2.16	0.46
1:E:958:ILE:N	1:E:958:ILE:CD1	2.79	0.46
1:E:1014:VAL:HG12	1:E:1015:LEU:HD12	1.98	0.46
1:F:184:MET:CE	1:F:268:VAL:HG13	2.45	0.46
1:F:216:SER:HB2	1:F:234:ILE:HG13	1.97	0.46
1:F:655:PHE:HB3	1:F:663:VAL:HG23	1.97	0.46
1:F:683:PHE:CE1	1:F:818:TYR:CD2	3.04	0.46
1:A:150:THR:N	1:A:153:ASP:HB2	2.30	0.46
1:B:15:ILE:O	1:B:19:ILE:HG23	2.16	0.46
1:B:800:PHE:CD2	1:B:804:ALA:HB2	2.51	0.46
2:B:2033:LMT:O6B	2:B:2033:LMT:H6E	2.16	0.46
1:C:150:THR:H	1:C:153:ASP:HB2	1.80	0.46
1:C:171:GLY:HA3	1:C:302:THR:OG1	2.16	0.46
1:C:540:PRO:O	1:C:543:LEU:HB2	2.16	0.46
1:C:612:VAL:CG1	1:C:615:PHE:HB3	2.46	0.46
1:D:158:ILE:HD13	1:D:162:ILE:HD12	1.97	0.46
1:D:197:GLN:HB3	1:D:797:MET:SD	2.56	0.46
1:D:228:GLN:NE2	1:D:230:LEU:H	2.04	0.46
1:D:434:SER:O	1:D:437:GLN:HG2	2.16	0.46
1:D:840:MET:HA	1:D:844:GLU:CB	2.46	0.46
1:D:891:TYR:OH	1:D:945:VAL:HG13	2.15	0.46
1:D:1022:LEU:HA	1:D:1022:LEU:HD23	1.77	0.46
1:E:2:SER:HB3	1:E:486:LEU:O	2.15	0.46
1:E:904:VAL:HG22	1:E:934:ILE:HD12	1.96	0.46
1:E:1006:ILE:HG13	1:E:1007:GLY:N	2.30	0.46
1:A:254:ASN:HD21	1:A:258:SER:CB	2.26	0.46
1:A:541:TYR:C	1:A:543:LEU:H	2.20	0.46
1:A:559:ILE:HA	1:A:560:PRO:HD3	1.78	0.46
1:A:592:ASP:O	1:A:595:ARG:HB2	2.16	0.46
1:A:891:TYR:CG	1:A:896:ILE:HD11	2.51	0.46
1:B:740:VAL:HG23	1:B:792:ASN:ND2	2.31	0.46
1:C:472:ILE:N	1:C:472:ILE:CD1	2.77	0.46
1:C:550:ALA:HA	1:C:553:ILE:CG1	2.46	0.46
1:C:695:LEU:HD13	1:C:699:ARG:HH22	1.81	0.46
1:C:982:LEU:O	1:C:985:VAL:HG22	2.16	0.46
1:D:128:ARG:NH2	1:D:175:PHE:CE2	2.84	0.46
1:D:189:ASP:OD2	1:D:191:ALA:HB3	2.16	0.46
1:D:472:ILE:C	1:D:472:ILE:HD12	2.36	0.46
1:D:784:ASP:O	1:D:787:LYS:HB3	2.17	0.46
1:D:943:LEU:HB3	1:D:969:ARG:HH11	1.81	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:125:GLN:HG3	2:E:2033:LMT:O4'	2.16	0.46
1:E:942:ILE:HG12	1:E:942:ILE:H	1.50	0.46
1:F:490:PRO:O	1:F:493:CYS:HB2	2.16	0.46
1:A:157:TYR:O	1:A:158:ILE:C	2.55	0.45
1:A:518:ARG:O	1:A:522:SER:HB3	2.16	0.45
1:A:713:GLN:OE1	1:A:832:PRO:HD3	2.16	0.45
1:A:840:MET:HA	1:A:844:GLU:CB	2.46	0.45
1:B:619:GLY:HA3	1:B:720:MET:SD	2.56	0.45
1:B:709:ASN:HA	1:B:710:PRO:HD3	1.81	0.45
1:C:655:PHE:HB3	1:C:663:VAL:HG23	1.97	0.45
1:C:683:PHE:CZ	1:C:818:TYR:CZ	3.05	0.45
1:D:157:TYR:CZ	1:D:317:MET:HG3	2.51	0.45
1:D:189:ASP:C	1:D:193:LEU:HD23	2.36	0.45
1:D:249:ILE:H	1:D:262:LEU:N	2.14	0.45
1:D:361:ASN:HB3	1:D:364:ALA:HB3	1.98	0.45
1:D:748:THR:HG21	1:D:790:VAL:HG22	1.97	0.45
1:E:55:GLU:C	1:E:57:VAL:H	2.19	0.45
1:E:133:VAL:O	1:E:292:LYS:HE2	2.16	0.45
1:E:178:PHE:HE2	1:E:277:ILE:HD12	1.81	0.45
1:E:362:PHE:O	1:E:366:LEU:HD23	2.16	0.45
1:E:458:PHE:CE2	2:E:2032:LMT:H52	2.51	0.45
1:F:95:GLU:O	1:F:97:GLY:N	2.47	0.45
1:F:766:ARG:O	1:F:768:LYS:HG3	2.16	0.45
1:F:915:THR:HG23	1:F:920:LEU:HB2	1.98	0.45
1:A:80:SER:OG	1:A:817:ARG:HB2	2.16	0.45
1:A:189:ASP:C	1:A:193:LEU:HD23	2.36	0.45
1:A:540:PRO:O	1:A:543:LEU:HG	2.17	0.45
1:A:568:ASP:CB	1:A:634:TRP:CZ3	2.89	0.45
1:A:891:TYR:OH	1:A:942:ILE:HA	2.16	0.45
1:A:958:ILE:HG13	1:A:1025:VAL:HG13	1.98	0.45
1:B:578:THR:OG1	1:B:579:PRO:HD2	2.15	0.45
1:B:676:ASN:HD21	1:B:827:LEU:CD1	2.23	0.45
1:B:958:ILE:HD13	1:B:958:ILE:H	1.80	0.45
1:B:972:PRO:O	1:B:976:THR:HG23	2.16	0.45
1:C:96:GLN:HG3	1:C:462:SER:N	2.31	0.45
1:C:753:TRP:CZ2	1:C:785:LEU:HA	2.51	0.45
1:D:85:ASP:HB3	1:D:87:SER:OG	2.17	0.45
1:D:578:THR:OG1	1:D:587:THR:HG22	2.16	0.45
1:E:231:ASN:HD21	1:F:584:ALA:H	1.64	0.45
1:E:541:TYR:O	1:E:544:ILE:HG23	2.16	0.45
1:E:705:LEU:HD23	1:E:705:LEU:O	2.17	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:527:TYR:CD2	1:F:970:LEU:HG	2.51	0.45
1:F:550:ALA:HA	1:F:553:ILE:CG1	2.45	0.45
1:F:572:LEU:HB3	1:F:629:ILE:HD12	1.97	0.45
1:F:985:VAL:CG2	1:F:986:PRO:HD3	2.44	0.45
1:A:34:GLN:O	1:A:392:THR:HG23	2.16	0.45
1:B:446:ALA:HB2	1:B:482:VAL:HG21	1.99	0.45
1:B:521:LEU:O	1:B:525:HIS:ND1	2.49	0.45
1:B:541:TYR:O	1:B:1019:TRP:HZ3	1.98	0.45
1:B:973:ILE:HD11	1:B:1017:ILE:CG2	2.46	0.45
1:C:90:ILE:HD12	1:C:90:ILE:O	2.17	0.45
1:C:291:ILE:CD1	1:C:306:ILE:HD12	2.44	0.45
1:C:442:LEU:HD12	1:C:486:LEU:HD21	1.96	0.45
1:D:65:ILE:HD13	1:D:66:GLU:N	2.31	0.45
1:D:186:ILE:O	1:D:186:ILE:HG22	2.16	0.45
1:D:792:ASN:HB2	1:D:798:VAL:HG23	1.99	0.45
1:E:137:LEU:HD21	1:E:302:THR:HG23	1.98	0.45
1:E:442:LEU:O	1:E:445:ILE:HG12	2.16	0.45
1:E:972:PRO:O	1:E:976:THR:HG23	2.17	0.45
1:F:169:THR:HG23	1:F:172:VAL:CG2	2.46	0.45
1:F:683:PHE:CZ	1:F:818:TYR:CZ	3.05	0.45
1:F:695:LEU:HD13	1:F:699:ARG:HH22	1.81	0.45
1:F:731:ASP:C	1:F:733:GLU:H	2.19	0.45
1:A:133:VAL:HG22	1:A:672:LEU:HD13	1.99	0.45
1:A:437:GLN:C	1:A:438:ILE:HG13	2.37	0.45
1:A:887:LEU:HD21	1:A:942:ILE:CD1	2.47	0.45
1:B:45:VAL:HB	1:B:90:ILE:CG2	2.43	0.45
1:B:792:ASN:HB2	1:B:796:GLU:O	2.16	0.45
1:C:10:ILE:O	1:C:14:VAL:HG23	2.17	0.45
1:C:328:ASP:O	1:C:331:PRO:HD2	2.17	0.45
1:C:428:ARG:HB2	1:C:428:ARG:CZ	2.46	0.45
1:C:456:MET:CE	1:C:931:LEU:HD12	2.47	0.45
1:D:363:ARG:NH1	1:D:496:MET:O	2.49	0.45
1:E:579:PRO:HD3	1:E:660:ASP:O	2.17	0.45
1:A:15:ILE:O	1:A:19:ILE:HG13	2.16	0.45
1:A:710:PRO:HD3	1:D:807:LYS:NZ	2.32	0.45
1:B:362:PHE:O	1:B:365:THR:HB	2.15	0.45
1:B:399:VAL:O	1:B:402:ILE:HG12	2.17	0.45
1:B:420:MET:HE1	1:B:499:PRO:HA	1.99	0.45
1:C:175:PHE:C	1:C:175:PHE:CD2	2.89	0.45
1:C:503:GLY:C	1:C:505:HIS:H	2.20	0.45
1:D:43:ILE:HG12	1:D:104:GLN:HA	1.99	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:80:SER:OG	1:D:817:ARG:HB2	2.16	0.45
1:D:541:TYR:C	1:D:543:LEU:H	2.19	0.45
1:D:563:PHE:CZ	1:D:564:LEU:HD23	2.52	0.45
1:E:709:ASN:OD1	1:E:710:PRO:HD2	2.17	0.45
1:E:896:ILE:N	1:E:897:PRO:HD2	2.30	0.45
1:F:96:GLN:HG3	1:F:462:SER:N	2.31	0.45
1:F:169:THR:CG2	1:F:306:ILE:HG22	2.47	0.45
1:F:418:ARG:NH1	1:F:968:MET:HB3	2.32	0.45
1:F:1015:LEU:O	1:F:1019:TRP:HD1	1.99	0.45
1:A:157:TYR:CD2	1:A:321:MET:HE3	2.51	0.45
1:A:355:MET:CE	1:A:410:ILE:HD11	2.46	0.45
1:A:738:LEU:HD12	1:A:738:LEU:N	2.31	0.45
1:B:390:ILE:HG23	1:B:395:MET:SD	2.56	0.45
1:B:548:ILE:H	1:B:548:ILE:HG12	1.65	0.45
1:C:58:GLN:O	1:C:63:GLN:HB2	2.16	0.45
1:C:397:GLY:HA3	1:C:473:THR:HG21	1.99	0.45
1:D:273:GLN:HG3	1:D:771:TYR:HE1	1.81	0.45
1:E:61:VAL:HG21	1:E:122:VAL:HG21	1.99	0.45
1:E:418:ARG:HG2	1:E:418:ARG:HH11	1.82	0.45
1:E:568:ASP:O	1:E:569:GLN:C	2.54	0.45
1:E:652:GLN:O	1:E:656:PHE:HB2	2.16	0.45
1:F:351:VAL:HG22	1:F:979:ALA:O	2.17	0.45
1:F:966:CYS:O	1:F:970:LEU:HB2	2.15	0.45
1:F:981:ILE:HG22	1:F:1006:ILE:HB	1.99	0.45
1:A:273:GLN:HG3	1:A:771:TYR:HE1	1.81	0.45
1:A:702:PHE:HZ	1:A:843:VAL:HG13	1.81	0.45
1:C:1:MET:O	1:C:2:SER:C	2.54	0.45
1:C:351:VAL:HG22	1:C:979:ALA:O	2.17	0.45
1:C:550:ALA:HA	1:C:553:ILE:HG12	1.98	0.45
1:C:1020:VAL:N	1:C:1021:PRO:CD	2.80	0.45
1:D:181:GLN:HG3	1:D:768:LYS:NZ	2.32	0.45
1:D:528:GLU:OE2	1:D:967:ARG:NE	2.49	0.45
1:D:538:ARG:O	1:D:539:ALA:HB3	2.17	0.45
1:E:232:ALA:HB1	1:F:724:PRO:O	2.16	0.45
1:F:575:GLN:HE21	1:F:666:PHE:HZ	1.63	0.45
1:F:726:TYR:CZ	1:F:808:TRP:CZ3	3.05	0.45
1:A:211:ASN:OD1	1:A:240:LEU:HG	2.17	0.45
1:A:273:GLN:NE2	1:A:769:ARG:NH1	2.65	0.45
1:A:361:ASN:HB3	1:A:364:ALA:HB3	1.99	0.45
1:A:538:ARG:O	1:A:539:ALA:HB3	2.16	0.45
1:A:545:TYR:CD1	1:A:1023:PHE:HZ	2.35	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:711:ALA:HA	1:A:834:LEU:HD23	1.97	0.45
1:A:971:ARG:HB3	1:A:972:PRO:HD3	1.99	0.45
1:B:8:ARG:N	1:B:9:PRO:HD3	2.31	0.45
1:B:705:LEU:HD23	1:B:705:LEU:O	2.17	0.45
1:C:280:GLN:NE2	1:C:588:GLN:HE22	2.15	0.45
1:C:354:VAL:CG2	1:C:982:LEU:HG	2.46	0.45
1:C:418:ARG:NH1	1:C:968:MET:HB3	2.31	0.45
1:D:1:MET:O	1:D:5:PHE:HD1	2.00	0.45
1:D:186:ILE:HG22	1:D:772:LEU:HD23	1.97	0.45
1:D:518:ARG:O	1:D:522:SER:N	2.43	0.45
1:D:525:HIS:O	1:D:528:GLU:HB2	2.16	0.45
1:D:775:ARG:O	1:D:779:ARG:HG2	2.16	0.45
1:D:958:ILE:HG13	1:D:1025:VAL:HG13	1.99	0.45
1:F:2:SER:O	1:F:6:ILE:HG13	2.16	0.45
1:F:219:LEU:HG	1:F:234:ILE:HG22	1.99	0.45
1:A:891:TYR:OH	1:A:945:VAL:HG13	2.16	0.45
1:B:428:ARG:HD2	1:B:428:ARG:N	2.26	0.45
1:B:958:ILE:N	1:B:958:ILE:CD1	2.79	0.45
1:B:1014:VAL:HG12	1:B:1015:LEU:HD12	1.98	0.45
1:C:61:VAL:HG22	1:C:118:LEU:HD22	1.98	0.45
1:C:216:SER:HB2	1:C:234:ILE:HG13	1.99	0.45
1:C:282:ASN:HD22	1:C:599:LEU:HD11	1.82	0.45
1:C:1015:LEU:O	1:C:1019:TRP:HD1	1.99	0.45
1:D:99:ASP:OD2	1:D:101:ASP:HB2	2.16	0.45
1:D:219:LEU:HD11	1:E:726:TYR:CD2	2.52	0.45
1:D:224:ALA:CB	1:E:780:MET:HE1	2.46	0.45
1:D:405:LEU:HD22	1:D:405:LEU:C	2.37	0.45
1:D:826:ILE:HD12	1:D:827:LEU:N	2.31	0.45
1:D:971:ARG:HB3	1:D:972:PRO:HD3	1.99	0.45
1:E:30:LEU:HA	1:E:31:PRO:HD2	1.68	0.45
1:E:120:GLN:O	1:E:124:ARG:HG3	2.17	0.45
1:F:313:LEU:O	1:F:317:MET:HG3	2.17	0.45
1:F:428:ARG:CZ	1:F:428:ARG:HB2	2.47	0.45
1:F:550:ALA:HA	1:F:553:ILE:HG12	1.99	0.45
1:F:683:PHE:CE1	1:F:818:TYR:CE2	3.05	0.45
1:F:798:VAL:HA	1:F:799:PRO:HD3	1.81	0.45
1:A:80:SER:HA	1:A:90:ILE:HA	1.97	0.45
1:A:190:PRO:HG3	1:A:788:TRP:CE2	2.52	0.45
1:A:414:GLU:O	1:A:418:ARG:HG3	2.17	0.45
1:A:530:GLY:O	1:A:531:VAL:C	2.56	0.45
1:A:936:LEU:HD12	1:A:1009:MET:CE	2.46	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:188:LEU:HD23	1:B:266:ALA:HB2	1.99	0.45
1:B:798:VAL:HA	1:B:799:PRO:HD3	1.82	0.45
1:C:34:GLN:HG2	1:C:35:TYR:CD1	2.52	0.45
1:C:595:ARG:O	1:C:599:LEU:HB2	2.16	0.45
1:D:154:LEU:HD12	1:D:286:ALA:HA	1.99	0.45
1:D:789:TYR:HE2	1:D:799:PRO:HG3	1.81	0.45
1:E:327:TYR:HD1	1:E:571:VAL:HG11	1.82	0.45
1:E:568:ASP:O	1:E:634:TRP:CH2	2.70	0.45
1:E:818:TYR:O	1:E:819:ASN:HB2	2.17	0.45
1:E:944:ILE:HG22	1:E:969:ARG:HG3	1.98	0.45
1:F:859:THR:HG23	1:F:860:GLY:N	2.32	0.45
1:A:303:ALA:HB2	1:A:330:THR:HG21	1.99	0.44
1:A:668:PRO:HA	1:A:669:PRO:HD3	1.74	0.44
1:A:794:LYS:O	1:A:796:GLU:N	2.50	0.44
1:B:327:TYR:HD1	1:B:571:VAL:HG11	1.82	0.44
1:B:725:GLN:OE1	1:B:811:GLY:HA3	2.17	0.44
1:B:821:VAL:HG12	1:B:822:PRO:CD	2.43	0.44
1:B:958:ILE:H	1:B:958:ILE:CD1	2.30	0.44
1:B:969:ARG:C	1:B:972:PRO:HD2	2.38	0.44
1:C:219:LEU:HG	1:C:234:ILE:HG22	1.98	0.44
1:C:569:GLN:HA	1:C:634:TRP:HH2	1.82	0.44
1:C:595:ARG:O	1:C:599:LEU:N	2.48	0.44
1:D:11:PHE:O	1:D:15:ILE:HG22	2.17	0.44
1:D:234:ILE:HA	1:E:726:TYR:O	2.17	0.44
1:D:358:PHE:CG	1:D:975:MET:HB2	2.52	0.44
1:D:568:ASP:CB	1:D:634:TRP:CZ3	2.89	0.44
1:D:738:LEU:HD12	1:D:738:LEU:N	2.31	0.44
1:E:527:TYR:CG	1:E:970:LEU:HD12	2.50	0.44
1:F:19:ILE:HD11	1:F:374:VAL:HG12	1.98	0.44
1:F:26:SER:O	1:F:30:LEU:HG	2.16	0.44
1:F:45:VAL:HB	1:F:90:ILE:HG13	1.98	0.44
1:F:406:VAL:HG13	1:F:410:ILE:HG23	1.98	0.44
1:F:984:VAL:C	1:F:986:PRO:HD2	2.38	0.44
1:A:47:VAL:HG12	1:A:88:MET:HG3	1.99	0.44
1:A:452:VAL:HG11	1:A:931:LEU:O	2.17	0.44
1:A:454:LEU:HD23	1:A:454:LEU:HA	1.73	0.44
1:A:528:GLU:OE2	1:A:967:ARG:NE	2.50	0.44
1:A:573:PHE:CB	1:A:666:PHE:HE2	2.29	0.44
1:A:703:LEU:O	1:A:707:ALA:HB2	2.16	0.44
1:A:794:LYS:HD3	1:A:795:GLY:N	2.31	0.44
1:B:476:SER:O	1:B:480:LEU:HB2	2.17	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:953:GLU:C	1:B:955:GLY:N	2.69	0.44
1:C:95:GLU:O	1:C:97:GLY:N	2.49	0.44
1:C:683:PHE:CE1	1:C:818:TYR:CD2	3.05	0.44
1:C:731:ASP:C	1:C:733:GLU:H	2.19	0.44
1:D:185:ARG:NH1	1:D:771:TYR:HB3	2.33	0.44
1:D:228:GLN:OE1	1:E:780:MET:HB3	2.17	0.44
1:E:409:ALA:O	1:E:413:VAL:HG23	2.17	0.44
1:F:280:GLN:NE2	1:F:588:GLN:HE22	2.16	0.44
1:F:453:PHE:HZ	1:F:932:THR:HB	1.82	0.44
1:F:463:THR:HG23	1:F:464:GLY:N	2.32	0.44
1:A:807:LYS:HG3	1:A:808:TRP:N	2.32	0.44
1:B:133:VAL:O	1:B:292:LYS:HE2	2.16	0.44
1:B:199:THR:HG22	1:B:201:GLY:H	1.81	0.44
1:B:362:PHE:O	1:B:366:LEU:HD23	2.17	0.44
1:B:461:GLY:O	1:B:465:VAL:HG23	2.17	0.44
1:B:541:TYR:O	1:B:544:ILE:HG23	2.17	0.44
1:C:490:PRO:O	1:C:493:CYS:HB2	2.16	0.44
1:C:527:TYR:CD2	1:C:970:LEU:HG	2.52	0.44
1:D:702:PHE:HZ	1:D:843:VAL:HG13	1.82	0.44
1:E:69:MET:HE3	1:E:107:VAL:HG22	2.00	0.44
1:E:435:MET:CE	1:E:490:PRO:HG3	2.47	0.44
1:E:631:LEU:CD1	1:E:644:VAL:HG22	2.47	0.44
1:E:707:ALA:C	1:E:709:ASN:H	2.19	0.44
1:E:748:THR:HG21	1:E:790:VAL:HG22	2.00	0.44
1:E:792:ASN:HB2	1:E:796:GLU:O	2.16	0.44
1:F:61:VAL:HG22	1:F:118:LEU:HD22	1.99	0.44
1:F:569:GLN:HA	1:F:634:TRP:HH2	1.82	0.44
1:F:612:VAL:CG1	1:F:615:PHE:HB3	2.47	0.44
1:A:434:SER:O	1:A:437:GLN:HG2	2.18	0.44
1:A:493:CYS:HA	1:A:497:LEU:HD22	1.99	0.44
1:B:55:GLU:C	1:B:57:VAL:H	2.20	0.44
1:B:61:VAL:CG2	1:B:122:VAL:HG21	2.47	0.44
1:B:133:VAL:HG12	1:B:135:ASN:OD1	2.18	0.44
1:B:528:GLU:CD	1:B:967:ARG:HG3	2.38	0.44
1:B:709:ASN:OD1	1:B:710:PRO:HD2	2.16	0.44
1:C:306:ILE:O	1:C:306:ILE:HG13	2.17	0.44
1:C:370:ILE:O	1:C:373:PRO:HD2	2.18	0.44
1:D:211:ASN:OD1	1:D:240:LEU:HG	2.17	0.44
1:D:262:LEU:HD13	1:D:262:LEU:C	2.37	0.44
1:E:72:ILE:CD1	1:E:75:LEU:HD13	2.46	0.44
1:E:188:LEU:HD23	1:E:266:ALA:HB2	1.98	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:338:HIS:C	1:E:340:VAL:H	2.20	0.44
1:E:541:TYR:O	1:E:1019:TRP:HZ3	1.99	0.44
1:F:111:LEU:C	1:F:113:LEU:N	2.71	0.44
1:A:10:ILE:O	1:A:10:ILE:HG13	2.17	0.44
1:A:146:ASP:C	1:A:148:SER:N	2.71	0.44
1:A:738:LEU:HD22	1:A:798:VAL:HG11	1.99	0.44
1:A:810:TYR:CZ	1:D:701:LYS:HG2	2.53	0.44
1:A:887:LEU:HD23	1:A:887:LEU:HA	1.78	0.44
1:B:568:ASP:O	1:B:634:TRP:CH2	2.70	0.44
1:C:278:ASN:HB2	1:C:613:THR:CG2	2.48	0.44
1:C:404:LEU:HD13	1:C:449:LEU:HD13	1.98	0.44
1:C:652:GLN:HG3	1:C:714:ARG:NH1	2.31	0.44
1:D:363:ARG:NH2	2:D:2026:LMT:O3B	2.49	0.44
1:D:414:GLU:O	1:D:418:ARG:HG3	2.17	0.44
1:D:861:LEU:O	1:D:865:GLU:HB2	2.18	0.44
1:D:891:TYR:OH	1:D:942:ILE:HA	2.18	0.44
1:E:559:ILE:CD1	1:E:560:PRO:HD2	2.48	0.44
1:F:503:GLY:C	1:F:505:HIS:H	2.21	0.44
1:F:652:GLN:HG3	1:F:714:ARG:NH1	2.32	0.44
1:F:982:LEU:O	1:F:985:VAL:HG22	2.18	0.44
1:A:330:THR:N	1:A:331:PRO:CD	2.80	0.44
1:A:333:VAL:O	1:A:337:ILE:HG12	2.17	0.44
1:B:189:ASP:HB3	1:B:192:LYS:HB3	1.99	0.44
1:B:223:PRO:HG3	1:C:275:TYR:CD2	2.53	0.44
1:B:314:GLU:N	1:B:315:PRO:CD	2.80	0.44
1:B:418:ARG:O	1:B:422:GLU:HG3	2.17	0.44
2:B:2033:LMT:H111	2:B:2033:LMT:H71	1.98	0.44
1:C:186:ILE:CG2	1:C:268:VAL:HG22	2.46	0.44
1:D:157:TYR:O	1:D:158:ILE:C	2.55	0.44
1:D:631:LEU:HD22	1:D:644:VAL:HG23	2.00	0.44
1:D:668:PRO:HA	1:D:669:PRO:HD3	1.75	0.44
1:F:65:ILE:HD11	1:F:90:ILE:HG12	2.00	0.44
1:F:186:ILE:CG2	1:F:268:VAL:HG22	2.48	0.44
1:F:720:MET:SD	1:F:720:MET:N	2.81	0.44
1:A:166:LEU:HD13	1:A:166:LEU:HA	1.78	0.44
1:A:572:LEU:HD12	1:A:666:PHE:O	2.17	0.44
1:B:133:VAL:CG1	1:B:135:ASN:OD1	2.66	0.44
1:B:438:ILE:O	1:B:439:GLN:C	2.56	0.44
1:C:39:ALA:HA	1:C:40:PRO:HD3	1.78	0.44
1:C:45:VAL:HB	1:C:90:ILE:HG13	2.00	0.44
1:C:453:PHE:HZ	1:C:932:THR:HB	1.83	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:454:LEU:HA	1:C:454:LEU:HD23	1.58	0.44
1:C:572:LEU:HB3	1:C:629:ILE:HD12	2.00	0.44
1:D:38:ILE:H	1:D:38:ILE:HD13	1.83	0.44
1:D:219:LEU:HG	1:D:234:ILE:HG23	1.99	0.44
1:D:357:LEU:O	1:D:357:LEU:HD22	2.18	0.44
1:D:747:SER:O	1:D:751:ILE:HG13	2.17	0.44
1:D:974:VAL:O	1:D:978:LEU:HB2	2.17	0.44
1:E:544:ILE:O	1:E:548:ILE:HG12	2.17	0.44
1:E:692:HIS:CD2	1:E:692:HIS:C	2.90	0.44
1:F:282:ASN:HD22	1:F:599:LEU:HD11	1.83	0.44
1:A:108:GLN:HA	1:A:111:LEU:HB3	2.00	0.44
1:A:228:GLN:NE2	1:A:230:LEU:H	2.06	0.44
1:B:412:VAL:HG11	1:B:489:THR:OG1	2.18	0.44
1:B:492:LEU:O	1:B:496:MET:HG3	2.18	0.44
1:B:577:GLN:HG3	1:B:616:ASN:ND2	2.32	0.44
1:B:578:THR:HA	1:B:661:ALA:HA	1.99	0.44
1:B:652:GLN:O	1:B:656:PHE:HB2	2.17	0.44
1:B:748:THR:HG21	1:B:790:VAL:HG22	2.00	0.44
1:B:958:ILE:HG12	1:B:959:VAL:H	1.81	0.44
1:C:19:ILE:HD11	1:C:374:VAL:HG12	1.98	0.44
1:D:3:LYS:HA	1:D:6:ILE:HD13	2.00	0.44
1:D:655:PHE:HD2	1:D:658:PHE:CE2	2.36	0.44
1:D:738:LEU:HD22	1:D:798:VAL:HG11	1.98	0.44
1:E:142:VAL:HG12	1:E:288:GLY:HA2	1.99	0.44
1:E:189:ASP:HB3	1:E:192:LYS:HB3	1.98	0.44
1:E:414:GLU:HG3	1:E:415:ASN:N	2.33	0.44
1:E:577:GLN:HG3	1:E:616:ASN:ND2	2.33	0.44
1:F:138:MET:O	1:F:291:ILE:HG12	2.18	0.44
1:F:408:ASP:OD1	1:F:445:ILE:HD11	2.18	0.44
1:F:709:ASN:HA	1:F:710:PRO:HD3	1.72	0.44
1:F:755:SER:HB3	1:F:773:GLN:HE21	1.83	0.44
1:F:783:ASP:C	1:F:785:LEU:H	2.19	0.44
1:A:415:ASN:HB3	1:A:434:SER:HB2	1.99	0.44
1:A:534:ILE:HD11	1:A:1022:LEU:HG	2.00	0.44
1:A:984:VAL:HG13	1:A:987:LEU:HD12	2.00	0.44
1:A:1009:MET:O	1:A:1013:THR:HG23	2.17	0.44
1:C:102:ILE:HD12	1:C:103:ALA:N	2.33	0.44
1:C:155:SER:O	1:C:159:VAL:HG23	2.18	0.44
1:C:683:PHE:CE1	1:C:818:TYR:CE2	3.05	0.44
1:C:783:ASP:C	1:C:785:LEU:H	2.20	0.44
1:E:740:VAL:HG23	1:E:792:ASN:ND2	2.32	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:943:LEU:O	1:E:947:PHE:HD1	2.01	0.44
1:F:281:PHE:CZ	1:F:324:VAL:HG11	2.53	0.44
1:A:237:LYS:HD3	1:B:746:ASN:HD21	1.82	0.43
1:A:332:VAL:HG23	1:A:634:TRP:HZ2	1.83	0.43
1:A:355:MET:HE1	1:A:406:VAL:HG11	2.00	0.43
1:A:631:LEU:HD22	1:A:644:VAL:HG23	1.99	0.43
1:B:240:LEU:HD22	1:B:245:GLN:HE21	1.83	0.43
1:B:942:ILE:O	1:B:946:GLU:HB2	2.17	0.43
1:C:197:GLN:HA	1:C:797:MET:SD	2.58	0.43
1:C:418:ARG:CZ	1:C:968:MET:HB3	2.48	0.43
1:C:425:LEU:HD23	1:C:426:SER:H	1.82	0.43
1:C:726:TYR:CZ	1:C:808:TRP:CZ3	3.05	0.43
1:D:39:ALA:HA	1:D:40:PRO:HD3	1.89	0.43
1:D:46:GLN:HG2	1:D:89:THR:HG23	1.98	0.43
1:D:872:ALA:N	1:D:873:PRO:CD	2.81	0.43
1:D:887:LEU:HD21	1:D:942:ILE:CD1	2.47	0.43
1:E:528:GLU:CD	1:E:967:ARG:HG3	2.39	0.43
1:F:156:ASN:OD1	1:F:180:SER:O	2.36	0.43
1:F:682:LEU:O	1:F:683:PHE:HD2	2.01	0.43
1:A:175:PHE:HD1	1:A:289:ILE:HD11	1.84	0.43
1:A:190:PRO:C	1:A:192:LYS:H	2.21	0.43
1:A:745:ILE:O	1:A:749:VAL:HG23	2.17	0.43
1:A:861:LEU:O	1:A:865:GLU:HB2	2.18	0.43
1:A:872:ALA:N	1:A:873:PRO:CD	2.82	0.43
1:B:34:GLN:CB	1:B:333:VAL:HG22	2.48	0.43
1:B:293:LEU:HD13	1:B:294:ALA:O	2.18	0.43
1:B:338:HIS:C	1:B:340:VAL:H	2.21	0.43
1:B:391:ASN:ND2	1:B:394:THR:H	2.16	0.43
1:B:442:LEU:O	1:B:445:ILE:HG12	2.18	0.43
1:C:15:ILE:HD13	1:C:487:ILE:HD12	2.00	0.43
1:C:300:LEU:O	1:C:304:LYS:HG3	2.18	0.43
1:C:973:ILE:O	1:C:973:ILE:HG13	2.18	0.43
1:D:712:LEU:HD21	1:D:842:ALA:HB1	1.99	0.43
1:D:859:THR:CG2	1:D:860:GLY:N	2.80	0.43
1:D:909:ILE:C	1:D:911:ALA:N	2.72	0.43
1:E:215:SER:HB2	1:F:750:SER:CB	2.47	0.43
2:E:2032:LMT:H1B	2:E:2032:LMT:O3'	2.19	0.43
1:F:424:GLY:HA3	1:F:502:LYS:HG3	2.00	0.43
1:F:578:THR:CG2	1:F:623:SER:HB2	2.46	0.43
1:F:734:LYS:HD3	1:F:802:ALA:O	2.18	0.43
1:A:25:LEU:HD12	1:A:25:LEU:HA	1.86	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:181:GLN:HG3	1:A:768:LYS:NZ	2.33	0.43
1:A:254:ASN:ND2	1:A:254:ASN:N	2.64	0.43
1:A:541:TYR:HA	1:A:544:ILE:HG23	1.99	0.43
1:B:182:TYR:HB2	1:B:768:LYS:HZ3	1.82	0.43
1:B:414:GLU:HG3	1:B:415:ASN:N	2.33	0.43
1:B:575:GLN:NE2	1:B:617:PHE:HB2	2.34	0.43
1:B:712:LEU:HD21	1:B:843:VAL:CG2	2.48	0.43
1:C:313:LEU:O	1:C:317:MET:HG3	2.18	0.43
1:C:762:ILE:H	1:C:762:ILE:HG12	1.51	0.43
1:D:207:ILE:H	1:D:207:ILE:HG12	1.47	0.43
1:D:379:THR:HA	1:D:382:VAL:HG23	2.00	0.43
1:D:530:GLY:O	1:D:534:ILE:HG22	2.18	0.43
1:D:540:PRO:O	1:D:543:LEU:HG	2.19	0.43
1:E:104:GLN:O	1:E:107:VAL:HG12	2.18	0.43
1:E:690:VAL:O	1:E:691:GLY:O	2.36	0.43
1:F:1:MET:O	1:F:2:SER:C	2.57	0.43
1:F:958:ILE:HD13	1:F:959:VAL:H	1.84	0.43
1:A:219:LEU:HD11	1:B:726:TYR:CD2	2.54	0.43
1:A:234:ILE:HA	1:B:726:TYR:O	2.18	0.43
1:A:358:PHE:CG	1:A:975:MET:HB2	2.53	0.43
1:A:784:ASP:O	1:A:787:LYS:HB3	2.18	0.43
1:B:105:VAL:CG1	1:B:106:GLN:N	2.81	0.43
1:B:254:ASN:HB2	1:B:258:SER:OG	2.18	0.43
1:B:520:PHE:O	1:B:523:THR:HG22	2.18	0.43
1:B:544:ILE:O	1:B:548:ILE:HG12	2.18	0.43
1:B:552:MET:HE3	1:B:908:VAL:HB	2.00	0.43
1:C:438:ILE:O	1:C:440:GLY:N	2.51	0.43
1:C:687:GLN:CD	1:C:855:GLY:HA3	2.39	0.43
1:C:838:ASP:O	1:C:841:ALA:HB3	2.18	0.43
1:D:780:MET:HB3	1:F:228:GLN:HE21	1.82	0.43
1:E:240:LEU:HD22	1:E:245:GLN:HE21	1.84	0.43
1:E:375:VAL:O	1:E:379:THR:HB	2.19	0.43
1:E:410:ILE:HD11	1:E:976:THR:CG2	2.32	0.43
1:E:418:ARG:O	1:E:422:GLU:HG3	2.18	0.43
1:E:951:LEU:C	1:E:953:GLU:N	2.71	0.43
1:E:958:ILE:CD1	1:E:958:ILE:H	2.30	0.43
1:F:99:ASP:O	1:F:102:ILE:HG13	2.18	0.43
1:F:595:ARG:O	1:F:599:LEU:HB2	2.17	0.43
1:A:31:PRO:HG2	1:A:389:SER:HB3	2.00	0.43
1:A:32:VAL:HG22	1:A:390:ILE:HB	2.00	0.43
1:A:131:LYS:NZ	1:B:73:ASP:OD2	2.52	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:184:MET:HG2	1:A:246:PHE:CE1	2.53	0.43
1:A:881:LEU:HD12	1:A:881:LEU:O	2.19	0.43
1:B:145:THR:HB	1:B:320:GLY:HA2	1.99	0.43
1:B:579:PRO:HD3	1:B:660:ASP:O	2.19	0.43
1:B:753:TRP:CZ2	1:B:785:LEU:HA	2.42	0.43
1:C:65:ILE:HD11	1:C:90:ILE:HG12	2.00	0.43
1:C:83:ASN:OD1	1:C:814:LYS:HG2	2.18	0.43
1:D:190:PRO:HG2	1:D:787:LYS:HG2	2.01	0.43
1:D:316:PHE:CD2	1:E:687:GLN:HG3	2.54	0.43
1:D:533:SER:O	1:D:537:HIS:N	2.31	0.43
1:D:572:LEU:HD12	1:D:666:PHE:O	2.18	0.43
1:D:592:ASP:O	1:D:595:ARG:HB2	2.18	0.43
1:D:810:TYR:O	1:D:810:TYR:CD2	2.71	0.43
1:E:145:THR:HB	1:E:320:GLY:HA2	2.01	0.43
1:F:219:LEU:HG	1:F:234:ILE:CG2	2.48	0.43
1:A:219:LEU:HG	1:A:234:ILE:HG23	2.00	0.43
1:A:594:MET:HG3	1:A:655:PHE:CZ	2.54	0.43
1:B:219:LEU:HD12	1:C:726:TYR:CE1	2.54	0.43
1:B:702:PHE:CE2	1:B:826:ILE:CD1	3.02	0.43
1:B:757:TYR:CZ	1:B:769:ARG:HG3	2.53	0.43
1:B:818:TYR:O	1:B:819:ASN:HB2	2.19	0.43
1:B:987:LEU:HD13	1:B:1001:ILE:HD11	2.00	0.43
1:C:219:LEU:HG	1:C:234:ILE:CG2	2.49	0.43
1:C:447:MET:HE1	1:C:886:CYS:HB3	1.98	0.43
1:C:451:ALA:HB1	1:C:882:VAL:HG12	2.00	0.43
1:C:891:TYR:O	1:C:892:GLU:C	2.57	0.43
1:C:1013:THR:O	1:C:1017:ILE:HG12	2.19	0.43
1:D:49:TYR:CD1	1:D:52:ALA:HB2	2.53	0.43
1:D:189:ASP:HB2	1:D:775:ARG:HD3	2.01	0.43
1:D:242:THR:CG2	1:D:245:GLN:HG3	2.49	0.43
1:D:310:ILE:HD13	1:D:323:VAL:HG11	2.01	0.43
1:D:594:MET:HG3	1:D:655:PHE:CZ	2.53	0.43
1:D:650:ARG:HH11	1:D:650:ARG:HB2	1.84	0.43
1:E:125:GLN:NE2	1:E:769:ARG:NH1	2.51	0.43
1:E:619:GLY:HA3	1:E:720:MET:SD	2.59	0.43
1:F:368:PRO:HG3	1:F:413:VAL:HG21	2.01	0.43
1:A:70:ASN:HB2	1:C:167:SER:HB2	2.00	0.43
1:B:151:LYS:H	1:B:151:LYS:HD2	1.83	0.43
1:B:178:PHE:HE2	1:B:277:ILE:HD12	1.83	0.43
1:B:470:PHE:O	1:B:473:THR:HG22	2.19	0.43
1:C:281:PHE:CZ	1:C:324:VAL:HG11	2.54	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:31:PRO:HG2	1:D:389:SER:HB3	2.01	0.43
1:D:330:THR:N	1:D:331:PRO:CD	2.82	0.43
1:D:370:ILE:HD11	1:D:488:LEU:CD1	2.47	0.43
1:D:415:ASN:HB3	1:D:434:SER:HB2	1.99	0.43
1:D:454:LEU:HA	1:D:454:LEU:HD23	1.74	0.43
1:D:616:ASN:HD22	1:D:616:ASN:HA	1.63	0.43
1:E:105:VAL:HG13	1:E:106:GLN:N	2.34	0.43
1:E:204:SER:O	1:E:207:ILE:HG12	2.19	0.43
1:E:254:ASN:HB2	1:E:258:SER:OG	2.19	0.43
1:E:412:VAL:HG13	1:E:435:MET:CE	2.49	0.43
1:E:552:MET:HE3	1:E:908:VAL:HB	2.00	0.43
1:E:712:LEU:HD21	1:E:843:VAL:CG2	2.47	0.43
1:E:1016:ALA:O	1:E:1020:VAL:HG23	2.18	0.43
1:F:10:ILE:O	1:F:14:VAL:HG23	2.19	0.43
1:F:930:LEU:HD23	1:F:930:LEU:HA	1.90	0.43
1:A:189:ASP:HB2	1:A:775:ARG:HD3	2.01	0.43
1:B:391:ASN:ND2	1:B:393:LEU:H	2.13	0.43
1:D:146:ASP:C	1:D:148:SER:N	2.71	0.43
1:D:318:PRO:O	1:D:320:GLY:N	2.51	0.43
1:E:79:SER:HB2	1:E:818:TYR:HD1	1.84	0.43
1:E:108:GLN:HG2	1:F:112:GLN:OE1	2.18	0.43
1:E:515:TRP:CH2	1:E:519:MET:HG3	2.54	0.43
1:E:757:TYR:CZ	1:E:769:ARG:HG3	2.53	0.43
1:F:102:ILE:HD12	1:F:103:ALA:N	2.33	0.43
1:F:555:MET:O	1:F:559:ILE:HG23	2.19	0.43
1:A:188:LEU:HG	1:A:772:LEU:HD21	2.00	0.43
1:B:61:VAL:HG21	1:B:122:VAL:HG21	2.00	0.43
1:B:120:GLN:O	1:B:124:ARG:HG3	2.19	0.43
1:B:228:GLN:HE21	1:B:231:ASN:HD21	1.67	0.43
1:B:682:LEU:HD11	1:B:856:TYR:CD2	2.53	0.43
1:C:184:MET:HE1	1:C:268:VAL:HG13	2.01	0.43
1:C:563:PHE:CD2	1:C:564:LEU:HG	2.54	0.43
1:C:958:ILE:HD13	1:C:959:VAL:H	1.84	0.43
1:D:108:GLN:HA	1:D:111:LEU:HB3	1.99	0.43
1:D:184:MET:HG2	1:D:246:PHE:CE1	2.54	0.43
1:D:306:ILE:O	1:D:310:ILE:HG23	2.18	0.43
1:D:731:ASP:CB	1:D:734:LYS:HB2	2.38	0.43
1:D:755:SER:HA	1:D:773:GLN:HG3	2.01	0.43
1:E:143:VAL:HG22	1:E:322:LYS:O	2.19	0.43
1:E:184:MET:HB2	1:E:770:VAL:HG22	2.01	0.43
1:E:317:MET:HE1	1:E:323:VAL:HG23	2.00	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:330:THR:N	1:E:331:PRO:CD	2.81	0.43
1:E:415:ASN:ND2	1:E:434:SER:HB2	2.26	0.43
1:E:958:ILE:HD13	1:E:958:ILE:H	1.80	0.43
1:F:90:ILE:HD12	1:F:90:ILE:O	2.18	0.43
1:F:99:ASP:HA	1:F:100:PRO:HD3	1.92	0.43
1:F:321:MET:HB3	1:F:321:MET:HE2	1.90	0.43
1:F:958:ILE:HD13	1:F:958:ILE:N	2.34	0.43
1:A:128:ARG:NH2	1:A:175:PHE:CE2	2.87	0.43
1:A:545:TYR:CE1	1:A:1023:PHE:HZ	2.37	0.43
1:A:655:PHE:HD2	1:A:658:PHE:CE2	2.36	0.43
1:A:1022:LEU:HD23	1:A:1022:LEU:HA	1.76	0.43
1:B:79:SER:HB2	1:B:818:TYR:HD1	1.83	0.43
1:B:142:VAL:HG12	1:B:288:GLY:HA2	2.00	0.43
1:B:158:ILE:O	1:B:163:GLN:HB2	2.19	0.43
1:B:164:ASP:HB3	1:B:165:PRO:HD3	2.01	0.43
1:B:303:ALA:O	1:B:307:ARG:HB2	2.19	0.43
1:B:410:ILE:HD11	1:B:976:THR:CG2	2.31	0.43
1:C:150:THR:HG22	1:C:153:ASP:CG	2.39	0.43
1:C:671:VAL:O	1:C:674:LEU:HB2	2.19	0.43
1:C:695:LEU:O	1:C:698:ALA:HB3	2.19	0.43
1:C:929:GLY:HA2	1:C:932:THR:CG2	2.49	0.43
1:D:332:VAL:HG23	1:D:634:TRP:HZ2	1.83	0.43
1:D:400:LEU:HD12	1:D:470:PHE:CZ	2.47	0.43
1:D:683:PHE:CZ	1:D:825:GLU:HB2	2.54	0.43
1:E:8:ARG:N	1:E:9:PRO:HD3	2.34	0.43
1:E:105:VAL:CG1	1:E:106:GLN:N	2.81	0.43
1:E:470:PHE:O	1:E:473:THR:HG22	2.18	0.43
1:E:987:LEU:HD13	1:E:1001:ILE:HD11	2.01	0.43
1:F:111:LEU:O	1:F:113:LEU:N	2.51	0.43
1:F:300:LEU:O	1:F:304:LYS:HG3	2.19	0.43
1:F:695:LEU:O	1:F:698:ALA:HB3	2.19	0.43
1:A:523:THR:O	1:A:524:THR:C	2.57	0.42
1:A:682:LEU:HD21	1:A:856:TYR:HD1	1.84	0.42
1:A:711:ALA:HA	1:A:834:LEU:CD2	2.49	0.42
1:B:352:PHE:CD1	1:B:365:THR:CG2	3.02	0.42
1:B:515:TRP:CH2	1:B:519:MET:HG3	2.54	0.42
2:B:2033:LMT:H62	2:B:2033:LMT:C12	2.46	0.42
1:C:456:MET:HB2	1:C:467:TYR:HB3	2.00	0.42
1:C:903:VAL:O	1:C:906:LEU:HB2	2.18	0.42
1:D:682:LEU:CD2	1:D:856:TYR:HB2	2.44	0.42
1:D:776:PRO:O	1:D:780:MET:HG2	2.19	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:818:TYR:OH	1:D:859:THR:OG1	2.28	0.42
1:D:936:LEU:HD12	1:D:1009:MET:CE	2.48	0.42
1:E:46:GLN:HA	1:E:88:MET:HE3	2.01	0.42
1:E:228:GLN:HE21	1:E:231:ASN:HD21	1.68	0.42
1:E:521:LEU:O	1:E:525:HIS:ND1	2.50	0.42
1:E:726:TYR:HE2	1:E:785:LEU:CD1	2.32	0.42
1:E:762:ILE:HG22	1:E:767:VAL:HG22	2.00	0.42
1:A:76:ARG:HD3	1:A:95:GLU:OE1	2.19	0.42
1:A:634:TRP:O	1:A:638:PRO:HG3	2.19	0.42
1:A:695:LEU:HD13	1:A:699:ARG:NH2	2.34	0.42
1:A:794:LYS:CD	1:A:795:GLY:H	2.29	0.42
1:A:818:TYR:HH	1:A:859:THR:HG1	1.51	0.42
1:A:1001:ILE:CG2	1:A:1002:GLY:N	2.82	0.42
1:B:105:VAL:HG13	1:B:106:GLN:N	2.33	0.42
1:B:204:SER:O	1:B:207:ILE:HG12	2.19	0.42
1:B:314:GLU:HA	1:B:317:MET:HE2	2.01	0.42
1:B:541:TYR:O	1:B:1019:TRP:CZ3	2.72	0.42
1:B:840:MET:O	1:B:844:GLU:HG3	2.19	0.42
1:C:324:VAL:HG12	1:C:325:TYR:N	2.34	0.42
1:C:667:ALA:HA	1:C:668:PRO:HD3	1.84	0.42
1:C:712:LEU:HD12	1:C:715:VAL:HG21	2.00	0.42
1:D:453:PHE:CG	1:D:474:ILE:HD11	2.54	0.42
1:D:530:GLY:O	1:D:531:VAL:C	2.57	0.42
1:D:969:ARG:O	1:D:972:PRO:HD2	2.19	0.42
1:E:280:GLN:HB2	1:E:611:THR:HG23	2.00	0.42
1:E:375:VAL:HG22	1:E:484:VAL:HG21	2.01	0.42
1:E:445:ILE:HD12	1:E:939:LYS:HG3	2.00	0.42
1:E:569:GLN:O	1:E:571:VAL:N	2.45	0.42
1:F:185:ARG:HD3	1:F:771:TYR:HB2	2.01	0.42
1:F:438:ILE:O	1:F:440:GLY:N	2.53	0.42
1:F:687:GLN:CD	1:F:855:GLY:HA3	2.39	0.42
1:F:757:TYR:OH	1:F:760:ASP:OD1	2.33	0.42
1:F:803:PHE:O	1:F:804:ALA:HB2	2.19	0.42
1:A:532:ALA:O	1:A:533:SER:C	2.58	0.42
1:A:655:PHE:CG	1:A:663:VAL:HG11	2.55	0.42
1:A:683:PHE:CZ	1:A:825:GLU:HB2	2.54	0.42
1:A:694:VAL:O	1:A:697:GLN:HB3	2.20	0.42
1:B:228:GLN:NE2	1:B:231:ASN:HD21	2.17	0.42
1:B:412:VAL:HG13	1:B:435:MET:CE	2.49	0.42
1:B:442:LEU:HD23	1:B:442:LEU:HA	1.89	0.42
1:B:631:LEU:CD1	1:B:644:VAL:HG22	2.49	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:545:TYR:CE1	1:C:1023:PHE:HZ	2.37	0.42
1:C:734:LYS:HD3	1:C:802:ALA:O	2.18	0.42
1:C:755:SER:HB3	1:C:773:GLN:HE21	1.83	0.42
1:D:110:LYS:HD2	1:D:110:LYS:HA	1.85	0.42
1:E:172:VAL:HG22	1:E:306:ILE:CG2	2.49	0.42
1:E:352:PHE:CD1	1:E:365:THR:CG2	3.03	0.42
1:E:681:ASP:CB	1:E:827:LEU:HD13	2.44	0.42
1:E:738:LEU:C	1:E:792:ASN:HD21	2.23	0.42
2:E:2033:LMT:H111	2:E:2033:LMT:C7	2.48	0.42
1:F:184:MET:H	1:F:761:PHE:HE1	1.67	0.42
1:F:291:ILE:CD1	1:F:306:ILE:HD12	2.45	0.42
1:F:903:VAL:O	1:F:906:LEU:HB2	2.19	0.42
1:A:480:LEU:HA	1:A:480:LEU:HD23	1.78	0.42
1:A:532:ALA:O	1:A:535:LEU:N	2.36	0.42
1:A:906:LEU:HD23	1:A:906:LEU:N	2.33	0.42
1:A:909:ILE:C	1:A:911:ALA:N	2.72	0.42
1:A:944:ILE:HD11	1:A:1020:VAL:CG1	2.50	0.42
1:B:30:LEU:HD23	1:B:31:PRO:HD2	2.02	0.42
1:B:62:VAL:HG23	1:B:88:MET:HG3	1.99	0.42
1:B:172:VAL:HG22	1:B:306:ILE:CG2	2.50	0.42
1:B:298:ASN:O	1:B:302:THR:HG22	2.17	0.42
1:B:409:ALA:O	1:B:413:VAL:HG23	2.19	0.42
1:B:568:ASP:HB3	1:B:634:TRP:CZ3	2.37	0.42
1:B:942:ILE:HG12	1:B:942:ILE:H	1.50	0.42
1:C:424:GLY:HA3	1:C:502:LYS:HG3	2.01	0.42
1:C:690:VAL:HB	1:C:691:GLY:H	1.64	0.42
1:C:803:PHE:O	1:C:804:ALA:HB2	2.19	0.42
1:D:154:LEU:CD1	1:D:286:ALA:HA	2.48	0.42
1:D:168:ARG:HD3	1:E:75:LEU:HD21	2.02	0.42
1:D:568:ASP:O	1:D:569:GLN:HB2	2.20	0.42
1:D:610:PHE:HB3	1:D:628:PHE:HB2	2.00	0.42
1:D:815:LEU:HD12	1:D:815:LEU:HA	1.89	0.42
1:E:55:GLU:HG2	1:E:815:LEU:HD11	2.01	0.42
1:E:151:LYS:H	1:E:151:LYS:HD2	1.84	0.42
1:E:446:ALA:HB2	1:E:482:VAL:HG21	2.01	0.42
1:E:461:GLY:O	1:E:465:VAL:HG23	2.19	0.42
1:E:515:TRP:O	1:E:519:MET:HG2	2.19	0.42
1:E:592:ASP:CG	1:E:595:ARG:HH12	2.23	0.42
1:E:753:TRP:CZ2	1:E:785:LEU:HA	2.42	0.42
1:E:840:MET:O	1:E:844:GLU:HG3	2.19	0.42
1:E:909:ILE:HG13	1:E:910:GLY:N	2.34	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:83:ASN:OD1	1:F:814:LYS:HG2	2.20	0.42
1:A:167:SER:O	1:B:70:ASN:HB2	2.19	0.42
1:A:185:ARG:NH1	1:A:771:TYR:HB3	2.34	0.42
1:A:453:PHE:CG	1:A:474:ILE:HD11	2.54	0.42
1:A:568:ASP:O	1:A:569:GLN:HB2	2.19	0.42
1:A:859:THR:CG2	1:A:860:GLY:N	2.81	0.42
1:B:330:THR:N	1:B:331:PRO:CD	2.82	0.42
1:B:370:ILE:O	1:B:373:PRO:HD2	2.20	0.42
1:B:376:LEU:HD22	1:B:398:MET:HE2	2.02	0.42
1:B:726:TYR:HE2	1:B:785:LEU:CD1	2.32	0.42
1:B:890:LEU:HD13	1:B:891:TYR:CE2	2.54	0.42
1:B:929:GLY:HA2	1:B:932:THR:HG22	2.02	0.42
2:B:2032:LMT:H72	2:B:2032:LMT:H101	1.74	0.42
1:C:5:PHE:CD1	1:C:487:ILE:HG23	2.55	0.42
1:D:100:PRO:HB3	1:D:295:THR:CG2	2.49	0.42
1:D:223:PRO:O	1:E:779:ARG:NH2	2.52	0.42
1:D:682:LEU:HD21	1:D:856:TYR:HD1	1.84	0.42
1:E:89:THR:HG21	2:E:2033:LMT:H82	2.02	0.42
1:E:314:GLU:N	1:E:315:PRO:CD	2.82	0.42
1:E:812:SER:HA	1:E:813:PRO:HD3	1.73	0.42
1:F:563:PHE:CD2	1:F:564:LEU:HG	2.55	0.42
1:F:578:THR:HG22	1:F:623:SER:CB	2.46	0.42
1:F:1013:THR:O	1:F:1017:ILE:HG12	2.20	0.42
1:A:49:TYR:CD1	1:A:52:ALA:HB2	2.55	0.42
1:A:306:ILE:O	1:A:310:ILE:HG23	2.20	0.42
1:A:578:THR:OG1	1:A:587:THR:HG22	2.19	0.42
1:A:755:SER:HA	1:A:773:GLN:HG3	2.00	0.42
1:B:564:LEU:HD21	1:B:670:SER:HB3	2.01	0.42
1:B:1001:ILE:O	1:B:1005:VAL:HG23	2.19	0.42
1:C:17:LEU:HD23	1:C:20:MET:CE	2.49	0.42
1:C:1005:VAL:HG12	1:C:1006:ILE:N	2.35	0.42
1:D:70:ASN:ND2	1:F:175:PHE:CE1	2.87	0.42
1:D:164:ASP:HB2	1:D:165:PRO:HD3	2.01	0.42
1:D:958:ILE:HD13	1:D:958:ILE:N	2.35	0.42
1:E:30:LEU:HD23	1:E:31:PRO:HD2	2.02	0.42
1:E:303:ALA:O	1:E:307:ARG:HB2	2.19	0.42
1:F:306:ILE:O	1:F:306:ILE:HG13	2.19	0.42
1:F:695:LEU:HD12	1:F:696:LEU:N	2.34	0.42
1:F:891:TYR:O	1:F:892:GLU:C	2.58	0.42
1:A:405:LEU:HD22	1:A:405:LEU:C	2.39	0.42
1:A:747:SER:O	1:A:751:ILE:HG13	2.20	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:885:LEU:HA	1:A:885:LEU:HD12	1.77	0.42
1:B:56:THR:O	1:B:56:THR:HG22	2.20	0.42
1:B:367:ILE:H	1:B:367:ILE:HG12	1.63	0.42
1:B:454:LEU:HD23	1:B:454:LEU:HA	1.82	0.42
1:C:94:PHE:HB3	1:C:98:THR:HG21	2.02	0.42
1:C:667:ALA:O	1:C:678:THR:HG22	2.19	0.42
1:C:695:LEU:HD12	1:C:696:LEU:N	2.35	0.42
1:C:789:TYR:HE2	1:C:799:PRO:HG3	1.85	0.42
1:C:958:ILE:HD13	1:C:958:ILE:N	2.35	0.42
1:C:981:ILE:HG22	1:C:1006:ILE:HB	2.00	0.42
1:E:237:LYS:NZ	1:F:742:LEU:HD22	2.35	0.42
1:E:391:ASN:ND2	1:E:393:LEU:H	2.16	0.42
1:E:455:PRO:HG2	1:E:879:SER:HB3	2.02	0.42
1:E:616:ASN:ND2	1:E:624:SER:HB2	2.35	0.42
1:F:456:MET:CE	1:F:931:LEU:HD12	2.49	0.42
1:A:65:ILE:HD13	1:A:66:GLU:N	2.34	0.42
1:A:186:ILE:HG22	1:A:186:ILE:O	2.18	0.42
1:A:415:ASN:HA	1:A:418:ARG:HD2	2.01	0.42
1:A:681:ASP:OD1	1:A:859:THR:HG22	2.20	0.42
1:A:887:LEU:CD2	1:A:942:ILE:HD12	2.50	0.42
1:A:974:VAL:O	1:A:978:LEU:HB2	2.20	0.42
1:B:278:ASN:O	1:B:612:VAL:HA	2.19	0.42
1:B:329:THR:O	1:B:333:VAL:HG23	2.20	0.42
1:B:1011:THR:O	1:B:1015:LEU:HB2	2.20	0.42
1:C:138:MET:O	1:C:291:ILE:HG12	2.20	0.42
1:C:368:PRO:HG3	1:C:413:VAL:HG21	2.00	0.42
1:C:555:MET:O	1:C:559:ILE:HG23	2.19	0.42
1:C:698:ALA:O	1:C:702:PHE:HB2	2.19	0.42
1:C:861:LEU:O	1:C:861:LEU:HD23	2.20	0.42
1:D:137:LEU:HD11	1:D:330:THR:HG23	2.02	0.42
1:D:336:SER:O	1:D:340:VAL:HG23	2.19	0.42
1:D:456:MET:CE	1:D:931:LEU:HD12	2.49	0.42
1:D:523:THR:O	1:D:524:THR:C	2.56	0.42
1:D:745:ILE:HA	1:D:748:THR:HG22	2.02	0.42
1:D:984:VAL:HG13	1:D:987:LEU:HD12	2.00	0.42
1:E:113:LEU:HD12	1:E:113:LEU:HA	1.88	0.42
1:E:702:PHE:CE2	1:E:826:ILE:CD1	3.03	0.42
1:E:910:GLY:HA3	1:E:1011:THR:CG2	2.50	0.42
1:A:197:GLN:CB	1:A:797:MET:HE3	2.50	0.42
1:A:356:TYR:CD1	1:A:356:TYR:C	2.93	0.42
1:A:456:MET:CE	1:A:931:LEU:HD12	2.50	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:530:GLY:O	1:A:534:ILE:HG22	2.19	0.42
1:A:616:ASN:N	1:A:619:GLY:O	2.50	0.42
1:A:910:GLY:HA3	1:A:1011:THR:HG21	2.02	0.42
1:B:48:SER:O	1:B:50:PRO:HD3	2.20	0.42
1:B:559:ILE:CD1	1:B:560:PRO:HD2	2.49	0.42
1:B:944:ILE:HD11	1:B:1020:VAL:HB	2.02	0.42
1:C:133:VAL:HG12	1:C:135:ASN:N	2.31	0.42
1:C:843:VAL:O	1:C:847:VAL:HG23	2.20	0.42
1:D:70:ASN:HB2	1:F:167:SER:HB2	2.01	0.42
1:D:181:GLN:H	1:D:181:GLN:HE21	1.67	0.42
1:D:188:LEU:HG	1:D:772:LEU:CD2	2.50	0.42
1:D:541:TYR:HA	1:D:544:ILE:HG23	2.00	0.42
1:D:542:LEU:HD12	1:D:1022:LEU:HD13	2.02	0.42
1:D:753:TRP:HZ3	1:D:779:ARG:CB	2.29	0.42
1:E:204:SER:O	1:E:208:GLN:HG3	2.20	0.42
1:F:150:THR:HG22	1:F:153:ASP:CG	2.40	0.42
1:F:328:ASP:O	1:F:331:PRO:HD2	2.19	0.42
1:F:418:ARG:CZ	1:F:968:MET:HB3	2.49	0.42
1:A:13:TRP:CE2	2:A:2026:LMT:C1	3.03	0.42
1:A:88:MET:SD	1:A:88:MET:C	2.98	0.42
1:A:90:ILE:HD12	1:A:90:ILE:C	2.39	0.42
1:A:242:THR:CG2	1:A:245:GLN:HG3	2.48	0.42
1:A:261:ARG:CZ	1:A:263:LYS:HZ3	2.33	0.42
1:A:275:TYR:CG	1:C:223:PRO:HG3	2.55	0.42
1:A:341:VAL:O	1:A:344:LEU:HB2	2.20	0.42
1:A:936:LEU:HD12	1:A:1009:MET:HE1	2.01	0.42
1:B:222:LEU:HD12	1:C:276:SER:HA	2.02	0.42
1:B:375:VAL:O	1:B:379:THR:HB	2.20	0.42
1:B:587:THR:HG23	1:B:588:GLN:N	2.35	0.42
1:B:616:ASN:ND2	1:B:624:SER:HB2	2.35	0.42
1:C:111:LEU:C	1:C:113:LEU:N	2.71	0.42
1:C:749:VAL:HG22	1:C:800:PHE:HZ	1.85	0.42
1:C:984:VAL:C	1:C:986:PRO:HD2	2.40	0.42
1:D:396:PHE:HA	1:D:399:VAL:HG12	2.02	0.42
1:D:944:ILE:HD11	1:D:1020:VAL:CG1	2.50	0.42
1:D:976:THR:CG2	1:D:977:SER:N	2.83	0.42
1:E:228:GLN:NE2	1:E:231:ASN:HD21	2.17	0.42
1:E:303:ALA:HB2	1:E:330:THR:HG21	2.01	0.42
1:E:352:PHE:CD2	1:E:352:PHE:C	2.93	0.42
1:E:367:ILE:HB	1:E:368:PRO:CD	2.40	0.42
1:F:34:GLN:HG2	1:F:35:TYR:CD1	2.55	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:278:ASN:HB2	1:F:613:THR:CG2	2.50	0.42
1:F:671:VAL:O	1:F:674:LEU:HB2	2.20	0.42
1:F:698:ALA:O	1:F:702:PHE:HB2	2.20	0.42
1:A:253:VAL:HG12	1:A:259:GLN:CB	2.37	0.41
1:A:354:VAL:HG11	1:A:979:ALA:CA	2.50	0.41
1:A:356:TYR:O	1:A:356:TYR:CD1	2.72	0.41
1:A:866:ARG:HD2	1:A:866:ARG:HA	1.78	0.41
1:A:930:LEU:HD23	1:A:930:LEU:HA	1.83	0.41
1:B:280:GLN:HB2	1:B:611:THR:HG23	2.02	0.41
1:B:303:ALA:HB2	1:B:330:THR:HG21	2.01	0.41
1:B:418:ARG:CZ	1:B:968:MET:CE	2.97	0.41
1:B:592:ASP:CG	1:B:595:ARG:HH12	2.23	0.41
1:B:943:LEU:O	1:B:947:PHE:HD1	2.02	0.41
1:D:47:VAL:HG12	1:D:88:MET:HG3	2.00	0.41
1:D:175:PHE:HD1	1:D:289:ILE:HD11	1.84	0.41
1:D:881:LEU:HD12	1:D:881:LEU:O	2.20	0.41
1:E:182:TYR:HD2	1:E:271:GLY:O	2.03	0.41
1:E:199:THR:HG22	1:E:201:GLY:N	2.35	0.41
1:E:746:ASN:O	1:E:749:VAL:HG12	2.19	0.41
1:F:39:ALA:HA	1:F:40:PRO:HD3	1.78	0.41
1:F:488:LEU:HD22	1:F:492:LEU:HG	2.02	0.41
1:F:520:PHE:O	1:F:524:THR:HG23	2.20	0.41
1:F:712:LEU:HD12	1:F:715:VAL:HG21	2.02	0.41
1:F:1013:THR:O	1:F:1017:ILE:HG23	2.20	0.41
1:A:378:GLY:O	1:A:382:VAL:HG23	2.20	0.41
1:A:453:PHE:CE2	1:A:932:THR:HG22	2.54	0.41
1:A:789:TYR:HE2	1:A:799:PRO:HG3	1.81	0.41
1:A:864:GLU:C	1:A:866:ARG:H	2.24	0.41
1:B:237:LYS:NZ	1:C:742:LEU:HD22	2.35	0.41
1:B:278:ASN:HB2	1:B:588:GLN:HE21	1.85	0.41
1:B:534:ILE:CG2	1:B:1022:LEU:HD23	2.44	0.41
1:B:685:GLN:HE22	1:B:818:TYR:HD2	1.66	0.41
1:B:958:ILE:CG1	1:B:959:VAL:N	2.82	0.41
1:C:75:LEU:C	1:C:75:LEU:HD23	2.40	0.41
1:C:652:GLN:HE22	1:C:664:PHE:HB3	1.85	0.41
1:D:634:TRP:O	1:D:638:PRO:HG3	2.20	0.41
1:D:866:ARG:HD2	1:D:866:ARG:HA	1.78	0.41
1:E:587:THR:HG23	1:E:588:GLN:N	2.35	0.41
1:E:860:GLY:C	1:E:862:SER:N	2.74	0.41
1:E:890:LEU:HD13	1:E:891:TYR:CE2	2.55	0.41
1:E:944:ILE:HD11	1:E:1020:VAL:HB	2.02	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1011:THR:O	1:E:1015:LEU:HB2	2.21	0.41
1:F:184:MET:HB3	1:F:184:MET:HE2	1.88	0.41
1:F:197:GLN:HA	1:F:797:MET:SD	2.60	0.41
1:F:324:VAL:HG12	1:F:325:TYR:N	2.35	0.41
1:F:559:ILE:HA	1:F:560:PRO:HD3	1.87	0.41
1:F:652:GLN:HE22	1:F:664:PHE:HB3	1.86	0.41
1:F:667:ALA:HA	1:F:668:PRO:HD3	1.83	0.41
1:F:749:VAL:HG22	1:F:800:PHE:HZ	1.84	0.41
1:F:838:ASP:O	1:F:841:ALA:HB3	2.20	0.41
1:A:155:SER:OG	1:A:180:SER:N	2.54	0.41
1:A:355:MET:HE2	1:A:355:MET:HB3	1.90	0.41
1:A:470:PHE:CE2	1:A:928:VAL:HG13	2.56	0.41
1:A:472:ILE:HD12	1:A:472:ILE:C	2.41	0.41
1:A:524:THR:CG2	1:A:970:LEU:HD12	2.48	0.41
1:A:578:THR:CG2	1:A:579:PRO:CD	2.94	0.41
1:A:753:TRP:HZ3	1:A:779:ARG:CB	2.28	0.41
1:B:108:GLN:HG2	1:C:112:GLN:OE1	2.20	0.41
1:B:204:SER:O	1:B:208:GLN:HG3	2.19	0.41
1:B:563:PHE:O	1:B:923:ASP:HA	2.20	0.41
1:B:673:GLU:O	1:B:674:LEU:C	2.59	0.41
1:B:784:ASP:HA	1:B:787:LYS:HE3	2.02	0.41
1:B:951:LEU:C	1:B:953:GLU:N	2.73	0.41
1:C:90:ILE:HD12	1:C:90:ILE:C	2.41	0.41
1:C:357:LEU:O	1:C:357:LEU:HD22	2.20	0.41
1:C:930:LEU:HD23	1:C:930:LEU:HA	1.86	0.41
1:D:90:ILE:HD12	1:D:90:ILE:C	2.39	0.41
1:D:519:MET:O	1:D:522:SER:OG	2.26	0.41
1:D:545:TYR:CD1	1:D:1023:PHE:HZ	2.38	0.41
1:E:44:ALA:CB	1:E:132:ALA:HB2	2.50	0.41
1:E:186:ILE:CG2	1:E:268:VAL:HG22	2.48	0.41
1:E:278:ASN:HB2	1:E:588:GLN:HE21	1.86	0.41
1:E:521:LEU:HD22	1:E:525:HIS:CE1	2.56	0.41
1:E:702:PHE:CD2	1:E:826:ILE:HD12	2.55	0.41
1:F:56:THR:O	1:F:60:THR:HG22	2.21	0.41
1:F:181:GLN:HE21	1:F:181:GLN:HB3	1.67	0.41
1:F:214:ILE:HG13	1:F:237:LYS:HB2	2.03	0.41
1:F:451:ALA:HB1	1:F:882:VAL:HG12	2.02	0.41
1:F:896:ILE:N	1:F:897:PRO:CD	2.83	0.41
1:B:88:MET:HE2	1:B:88:MET:HB3	1.90	0.41
1:B:154:LEU:CD1	1:B:286:ALA:HA	2.51	0.41
1:B:184:MET:HB2	1:B:770:VAL:HG22	2.01	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:843:VAL:HA	1:B:846:ILE:HG12	2.03	0.41
1:C:367:ILE:HG22	1:C:492:LEU:HB3	2.02	0.41
1:C:971:ARG:CB	1:C:972:PRO:HD3	2.50	0.41
1:D:76:ARG:HD3	1:D:95:GLU:OE1	2.21	0.41
1:D:283:GLY:HA2	1:D:595:ARG:NE	2.35	0.41
1:D:333:VAL:O	1:D:337:ILE:HG12	2.20	0.41
1:D:445:ILE:HG13	1:D:446:ALA:N	2.36	0.41
1:D:479:ALA:O	1:D:483:ILE:HG22	2.20	0.41
1:D:694:VAL:O	1:D:697:GLN:HB3	2.21	0.41
1:D:887:LEU:CD2	1:D:942:ILE:HD12	2.50	0.41
1:E:239:ARG:HD2	1:E:762:ILE:HG23	2.03	0.41
1:E:438:ILE:O	1:E:439:GLN:C	2.58	0.41
1:E:616:ASN:HB2	1:E:619:GLY:O	2.20	0.41
1:F:357:LEU:O	1:F:357:LEU:HD22	2.20	0.41
1:F:367:ILE:HG22	1:F:492:LEU:HB3	2.01	0.41
1:F:445:ILE:N	1:F:942:ILE:HD11	2.35	0.41
1:F:683:PHE:CG	1:F:818:TYR:CE1	3.09	0.41
1:F:812:SER:HA	1:F:813:PRO:HD3	1.92	0.41
1:A:38:ILE:HD13	1:A:38:ILE:H	1.85	0.41
1:A:336:SER:O	1:A:340:VAL:HG23	2.21	0.41
1:B:738:LEU:C	1:B:792:ASN:HD21	2.24	0.41
1:B:746:ASN:O	1:B:749:VAL:HG12	2.21	0.41
1:B:909:ILE:HG13	1:B:910:GLY:N	2.36	0.41
1:B:910:GLY:HA3	1:B:1011:THR:CG2	2.50	0.41
1:D:406:VAL:O	1:D:410:ILE:HG12	2.19	0.41
1:D:681:ASP:OD1	1:D:859:THR:HG22	2.20	0.41
1:D:896:ILE:HD12	1:D:945:VAL:CG2	2.50	0.41
1:E:534:ILE:CG2	1:E:1022:LEU:HD23	2.42	0.41
1:F:330:THR:N	1:F:331:PRO:CD	2.84	0.41
1:F:454:LEU:HD23	1:F:454:LEU:HA	1.60	0.41
1:F:742:LEU:HD23	1:F:745:ILE:HD11	2.02	0.41
1:A:30:LEU:HA	1:A:31:PRO:HD2	1.86	0.41
1:A:357:LEU:O	1:A:357:LEU:HD22	2.21	0.41
1:A:542:LEU:HD12	1:A:1022:LEU:HD13	2.02	0.41
1:A:896:ILE:HD12	1:A:945:VAL:CG2	2.50	0.41
1:A:985:VAL:O	1:A:989:ILE:HG12	2.20	0.41
1:A:1015:LEU:O	1:A:1019:TRP:CD1	2.73	0.41
1:B:907:GLY:HA2	1:B:1011:THR:HG23	2.02	0.41
1:C:668:PRO:HA	1:C:669:PRO:HD3	1.75	0.41
1:C:766:ARG:O	1:C:768:LYS:HG3	2.20	0.41
1:C:1013:THR:O	1:C:1017:ILE:HG23	2.20	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:38:ILE:HB	1:D:462:SER:OG	2.20	0.41
1:D:88:MET:SD	1:D:90:ILE:HG22	2.61	0.41
1:D:275:TYR:CG	1:F:223:PRO:HG3	2.55	0.41
1:E:454:LEU:HD23	1:E:454:LEU:HA	1.83	0.41
1:E:784:ASP:HA	1:E:787:LYS:HE3	2.01	0.41
1:E:843:VAL:HA	1:E:846:ILE:HG12	2.02	0.41
1:F:363:ARG:O	1:F:367:ILE:HD13	2.21	0.41
1:F:534:ILE:HD11	1:F:1022:LEU:HB2	2.02	0.41
1:F:652:GLN:OE1	1:F:652:GLN:HA	2.19	0.41
1:F:789:TYR:CE2	1:F:799:PRO:HG3	2.56	0.41
1:A:100:PRO:HB3	1:A:295:THR:CG2	2.51	0.41
1:A:479:ALA:O	1:A:483:ILE:HG22	2.21	0.41
1:A:610:PHE:HB3	1:A:628:PHE:HB2	2.03	0.41
1:B:143:VAL:HG22	1:B:322:LYS:O	2.21	0.41
1:B:463:THR:O	1:B:466:ILE:HG12	2.20	0.41
1:B:527:TYR:CZ	1:B:966:CYS:HB3	2.56	0.41
1:C:7:ASP:C	1:C:8:ARG:HG3	2.41	0.41
1:C:150:THR:OG1	1:C:151:LYS:N	2.54	0.41
1:C:896:ILE:N	1:C:897:PRO:CD	2.84	0.41
1:D:222:LEU:HA	1:D:223:PRO:C	2.41	0.41
1:D:655:PHE:CG	1:D:663:VAL:HG11	2.55	0.41
1:D:973:ILE:HG12	1:D:973:ILE:H	1.67	0.41
1:E:278:ASN:O	1:E:612:VAL:HA	2.21	0.41
1:F:17:LEU:HD23	1:F:20:MET:CE	2.50	0.41
1:F:522:SER:O	1:F:525:HIS:HB2	2.21	0.41
1:F:929:GLY:HA2	1:F:932:THR:CG2	2.50	0.41
1:A:6:ILE:HD12	1:A:6:ILE:N	2.36	0.41
1:A:224:ALA:CB	1:B:780:MET:HE1	2.49	0.41
1:A:332:VAL:HG23	1:A:634:TRP:CZ2	2.56	0.41
1:A:445:ILE:HG13	1:A:446:ALA:N	2.34	0.41
1:A:457:ALA:O	1:A:468:ARG:HD3	2.20	0.41
1:A:650:ARG:HH11	1:A:650:ARG:HB2	1.86	0.41
1:A:699:ARG:NH2	1:A:824:MET:CG	2.77	0.41
1:A:745:ILE:HA	1:A:748:THR:HG22	2.03	0.41
1:A:780:MET:HB3	1:C:228:GLN:HE21	1.85	0.41
1:B:515:TRP:O	1:B:519:MET:HG2	2.20	0.41
1:B:527:TYR:HE2	1:B:966:CYS:HB3	1.83	0.41
1:C:184:MET:H	1:C:761:PHE:HE1	1.67	0.41
1:C:520:PHE:O	1:C:524:THR:HG23	2.21	0.41
1:C:553:ILE:HG12	1:C:553:ILE:H	1.73	0.41
1:C:652:GLN:OE1	1:C:652:GLN:HA	2.20	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:789:TYR:CE2	1:C:799:PRO:HG3	2.56	0.41
1:C:881:LEU:O	1:C:885:LEU:HG	2.21	0.41
1:C:930:LEU:O	1:C:933:THR:HB	2.20	0.41
1:D:631:LEU:CD2	1:D:644:VAL:HG23	2.51	0.41
1:D:864:GLU:C	1:D:866:ARG:H	2.24	0.41
1:E:164:ASP:HB3	1:E:165:PRO:HD3	2.03	0.41
1:E:641:GLU:O	1:E:650:ARG:NH2	2.54	0.41
1:F:5:PHE:CD1	1:F:487:ILE:HG23	2.56	0.41
1:F:184:MET:CB	1:F:770:VAL:HG12	2.46	0.41
1:F:187:TRP:O	1:F:266:ALA:HB1	2.21	0.41
1:F:489:THR:HA	1:F:492:LEU:HD12	2.03	0.41
1:F:545:TYR:CE1	1:F:1023:PHE:HZ	2.39	0.41
1:F:843:VAL:O	1:F:847:VAL:HG23	2.21	0.41
1:F:881:LEU:O	1:F:885:LEU:HG	2.20	0.41
1:A:137:LEU:HD11	1:A:330:THR:HG23	2.02	0.41
1:A:233:THR:CG2	1:B:725:GLN:HG2	2.47	0.41
1:A:295:THR:HG23	1:A:295:THR:O	2.20	0.41
1:A:437:GLN:HE21	1:A:437:GLN:HB3	1.65	0.41
1:A:616:ASN:HD22	1:A:616:ASN:HA	1.65	0.41
1:A:712:LEU:CD2	1:A:838:ASP:HB3	2.51	0.41
1:A:766:ARG:HE	1:B:67:GLN:NE2	2.19	0.41
1:A:879:SER:O	1:A:883:VAL:HG23	2.20	0.41
1:A:902:LEU:HD23	1:A:1023:PHE:CD1	2.56	0.41
1:A:958:ILE:HD13	1:A:958:ILE:N	2.36	0.41
2:A:2026:LMT:C8	2:A:2026:LMT:C12	2.98	0.41
1:B:99:ASP:OD2	1:B:101:ASP:HB2	2.21	0.41
1:B:222:LEU:HA	1:B:223:PRO:C	2.40	0.41
1:B:455:PRO:HG2	1:B:879:SER:HB3	2.02	0.41
1:B:683:PHE:O	1:B:856:TYR:HA	2.21	0.41
1:B:685:GLN:HB3	1:B:823:ALA:HB2	2.03	0.41
1:B:757:TYR:CE1	1:B:769:ARG:CG	3.03	0.41
1:C:489:THR:HA	1:C:492:LEU:HD12	2.03	0.41
1:C:652:GLN:HE22	1:C:664:PHE:CB	2.34	0.41
1:C:683:PHE:CG	1:C:818:TYR:CE1	3.08	0.41
1:C:726:TYR:HB3	1:C:727:LYS:H	1.70	0.41
1:C:845:GLU:C	1:C:847:VAL:H	2.24	0.41
1:C:915:THR:HG23	1:C:920:LEU:HB2	2.01	0.41
1:C:918:ARG:HG2	1:C:918:ARG:O	2.21	0.41
1:D:220:GLY:O	1:D:221:GLY:C	2.59	0.41
1:D:306:ILE:HG13	1:D:307:ARG:N	2.36	0.41
1:D:355:MET:HE1	1:D:406:VAL:HG11	2.02	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:356:TYR:C	1:D:356:TYR:CD1	2.94	0.41
1:D:457:ALA:O	1:D:468:ARG:HD3	2.21	0.41
1:D:587:THR:HG21	1:D:622:GLN:O	2.21	0.41
1:D:591:VAL:HG11	1:D:611:THR:CG2	2.51	0.41
1:D:902:LEU:HD23	1:D:1023:PHE:CD1	2.56	0.41
1:D:930:LEU:HD23	1:D:930:LEU:HA	1.84	0.41
1:E:143:VAL:HG12	1:E:286:ALA:HB2	2.03	0.41
1:E:293:LEU:HD13	1:E:294:ALA:O	2.20	0.41
1:E:374:VAL:CG1	1:E:375:VAL:N	2.84	0.41
1:E:527:TYR:CZ	1:E:966:CYS:HB3	2.55	0.41
1:E:541:TYR:O	1:E:1019:TRP:CZ3	2.73	0.41
1:E:563:PHE:O	1:E:923:ASP:HA	2.21	0.41
1:E:910:GLY:N	1:E:1011:THR:HG21	2.35	0.41
1:F:150:THR:OG1	1:F:151:LYS:N	2.54	0.41
1:F:362:PHE:HA	1:F:365:THR:HG22	2.03	0.41
1:F:370:ILE:O	1:F:373:PRO:HD2	2.20	0.41
1:F:690:VAL:HG12	1:F:694:VAL:HG21	2.03	0.41
1:F:789:TYR:HE2	1:F:799:PRO:HG3	1.84	0.41
1:A:38:ILE:HB	1:A:462:SER:OG	2.21	0.41
1:A:69:MET:HE1	1:A:107:VAL:HG13	2.04	0.41
1:A:76:ARG:HB3	1:A:77:TYR:H	1.71	0.41
1:A:578:THR:HG22	1:A:579:PRO:CD	2.50	0.41
1:A:631:LEU:CD2	1:A:644:VAL:HG23	2.51	0.41
1:A:728:LEU:HD23	1:A:728:LEU:HA	1.83	0.41
1:A:1003:THR:CG2	1:A:1004:GLY:N	2.84	0.41
1:B:483:ILE:O	1:B:487:ILE:HD13	2.21	0.41
1:B:910:GLY:HA3	1:B:1007:GLY:O	2.21	0.41
1:C:52:ALA:HB1	1:C:56:THR:CG2	2.51	0.41
1:C:111:LEU:O	1:C:113:LEU:N	2.53	0.41
1:C:445:ILE:N	1:C:942:ILE:HD11	2.36	0.41
1:C:548:ILE:HD11	1:C:906:LEU:CD2	2.47	0.41
1:C:579:PRO:HG3	1:C:660:ASP:OD2	2.21	0.41
1:D:192:LYS:O	1:D:193:LEU:C	2.59	0.41
1:D:376:LEU:HA	1:D:379:THR:HG22	2.03	0.41
1:D:527:TYR:O	1:D:531:VAL:N	2.45	0.41
1:D:579:PRO:HD3	1:D:661:ALA:HA	2.03	0.41
1:D:812:SER:HA	1:D:813:PRO:HD3	1.80	0.41
1:D:1001:ILE:CG2	1:D:1002:GLY:N	2.82	0.41
1:E:47:VAL:HG22	1:E:127:ILE:HG23	2.03	0.41
1:E:1001:ILE:HG13	1:E:1002:GLY:H	1.85	0.41
1:F:52:ALA:HB1	1:F:56:THR:CG2	2.51	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:43:ILE:HG12	1:A:104:GLN:HA	2.03	0.40
1:A:127:ILE:O	1:B:113:LEU:HG	2.21	0.40
1:A:192:LYS:O	1:A:193:LEU:C	2.58	0.40
1:A:220:GLY:O	1:A:221:GLY:C	2.59	0.40
1:B:616:ASN:HB2	1:B:619:GLY:O	2.21	0.40
1:B:936:LEU:HD23	1:B:936:LEU:HA	1.93	0.40
1:C:488:LEU:HD22	1:C:492:LEU:HG	2.03	0.40
1:C:690:VAL:HG12	1:C:694:VAL:HG21	2.02	0.40
1:C:742:LEU:HD23	1:C:745:ILE:HD11	2.02	0.40
1:C:836:SER:O	1:C:840:MET:HG3	2.21	0.40
1:D:295:THR:HG23	1:D:295:THR:O	2.21	0.40
1:D:438:ILE:O	1:D:438:ILE:HD12	2.21	0.40
1:D:455:PRO:HG2	1:D:879:SER:HA	2.03	0.40
1:E:116:PRO:HA	1:E:123:GLN:NE2	2.35	0.40
1:E:775:ARG:O	1:E:779:ARG:HG2	2.21	0.40
1:E:798:VAL:HA	1:E:799:PRO:HD3	1.82	0.40
1:E:958:ILE:CG1	1:E:959:VAL:N	2.83	0.40
1:F:667:ALA:O	1:F:678:THR:HG22	2.20	0.40
1:F:1001:ILE:HG13	1:F:1002:GLY:N	2.36	0.40
1:A:310:ILE:HD13	1:A:323:VAL:HG11	2.03	0.40
1:A:375:VAL:O	1:A:379:THR:HG22	2.22	0.40
1:A:598:LEU:HD23	1:A:598:LEU:HA	1.83	0.40
1:A:792:ASN:HD22	1:A:793:ASP:H	1.68	0.40
1:B:143:VAL:HG12	1:B:286:ALA:HB2	2.02	0.40
2:B:2033:LMT:O5B	2:B:2033:LMT:H5'	2.21	0.40
1:D:131:LYS:NZ	1:E:73:ASP:OD2	2.51	0.40
1:D:293:LEU:HD21	1:D:297:ALA:HB3	2.04	0.40
1:D:351:VAL:O	1:D:355:MET:HG2	2.22	0.40
1:D:354:VAL:HG11	1:D:979:ALA:CA	2.51	0.40
1:D:609:VAL:HG13	1:D:629:ILE:HD13	2.02	0.40
1:D:787:LYS:HB2	1:D:787:LYS:HE2	1.84	0.40
1:E:492:LEU:O	1:E:496:MET:HG3	2.21	0.40
1:E:575:GLN:NE2	1:E:617:PHE:HB2	2.36	0.40
1:E:929:GLY:C	1:E:932:THR:HG22	2.42	0.40
1:E:969:ARG:C	1:E:972:PRO:HD2	2.39	0.40
1:F:94:PHE:HB3	1:F:98:THR:HG21	2.02	0.40
1:F:138:MET:CB	1:F:328:ASP:HA	2.43	0.40
1:A:62:VAL:HG12	1:A:63:GLN:N	2.36	0.40
1:A:188:LEU:HG	1:A:772:LEU:CD2	2.51	0.40
1:A:438:ILE:HD12	1:A:438:ILE:C	2.41	0.40
1:A:609:VAL:HG13	1:A:629:ILE:HD13	2.03	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:199:THR:HG22	1:B:201:GLY:N	2.37	0.40
1:B:256:ASP:OD1	1:B:256:ASP:N	2.54	0.40
1:B:641:GLU:O	1:B:650:ARG:NH2	2.54	0.40
1:C:2:SER:O	1:C:6:ILE:HG13	2.21	0.40
1:C:182:TYR:HD2	1:C:271:GLY:O	2.04	0.40
1:C:363:ARG:O	1:C:367:ILE:HD13	2.22	0.40
1:C:431:ALA:O	1:C:432:ARG:C	2.59	0.40
1:D:273:GLN:NE2	1:D:769:ARG:NH1	2.67	0.40
1:D:563:PHE:O	1:D:563:PHE:CD2	2.74	0.40
1:D:600:GLU:OE1	1:D:600:GLU:HA	2.21	0.40
1:E:43:ILE:CG2	1:E:107:VAL:HG11	2.23	0.40
1:E:85:ASP:OD1	1:E:85:ASP:N	2.50	0.40
1:E:154:LEU:CD1	1:E:286:ALA:HA	2.51	0.40
1:E:428:ARG:HD2	1:E:428:ARG:N	2.27	0.40
1:E:463:THR:O	1:E:466:ILE:HG12	2.21	0.40
1:E:690:VAL:O	1:E:690:VAL:HG13	2.20	0.40
1:F:90:ILE:HD12	1:F:90:ILE:C	2.42	0.40
1:A:68:GLN:O	1:A:110:LYS:HG3	2.21	0.40
1:A:137:LEU:HD22	1:A:293:LEU:HD12	2.04	0.40
1:A:415:ASN:O	1:A:416:VAL:C	2.59	0.40
1:A:924:VAL:HG23	1:A:925:PHE:N	2.36	0.40
1:B:352:PHE:HD1	1:B:365:THR:CG2	2.34	0.40
1:B:375:VAL:HG22	1:B:484:VAL:HG21	2.02	0.40
1:B:418:ARG:HG2	1:B:418:ARG:NH1	2.37	0.40
1:C:185:ARG:HD3	1:C:771:TYR:HB2	2.03	0.40
1:C:479:ALA:O	1:C:483:ILE:HG23	2.22	0.40
1:C:544:ILE:O	1:C:547:VAL:HB	2.20	0.40
1:C:907:GLY:HA2	1:C:1011:THR:CG2	2.50	0.40
1:D:49:TYR:O	1:D:86:GLY:HA3	2.22	0.40
1:D:63:GLN:O	1:D:67:GLN:HG3	2.21	0.40
1:D:78:ILE:HG13	1:D:90:ILE:HD11	2.02	0.40
1:D:581:GLY:N	1:D:723:GLU:OE1	2.54	0.40
1:D:701:LYS:HE2	1:D:701:LYS:HB3	1.91	0.40
1:D:763:ASP:CB	1:D:768:LYS:HD2	2.52	0.40
1:E:88:MET:HE2	1:E:88:MET:HB3	1.89	0.40
1:E:376:LEU:HD22	1:E:398:MET:HE3	2.03	0.40
1:E:1001:ILE:O	1:E:1005:VAL:HG23	2.20	0.40
1:F:792:ASN:C	1:F:794:LYS:H	2.24	0.40
1:A:223:PRO:HD3	1:B:275:TYR:CG	2.56	0.40
1:A:351:VAL:O	1:A:355:MET:HG2	2.22	0.40
1:A:353:LEU:HD13	1:A:353:LEU:HA	1.86	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:396:PHE:HA	1:A:399:VAL:HG12	2.03	0.40
1:A:455:PRO:HG2	1:A:879:SER:HA	2.02	0.40
1:A:596:GLU:O	1:A:597:TYR:C	2.60	0.40
1:A:780:MET:HE3	1:C:224:ALA:CA	2.51	0.40
1:B:44:ALA:CB	1:B:132:ALA:HB2	2.52	0.40
1:B:162:ILE:O	1:B:166:LEU:HB2	2.22	0.40
1:B:352:PHE:CD2	1:B:352:PHE:C	2.95	0.40
1:B:702:PHE:CD2	1:B:826:ILE:HD12	2.56	0.40
1:B:864:GLU:O	1:B:865:GLU:C	2.60	0.40
1:B:890:LEU:CD1	1:B:891:TYR:CE2	3.05	0.40
1:C:362:PHE:HA	1:C:365:THR:HG22	2.04	0.40
1:C:438:ILE:C	1:C:440:GLY:N	2.75	0.40
1:C:840:MET:O	1:C:844:GLU:HG3	2.22	0.40
1:C:939:LYS:HB3	1:C:939:LYS:HE3	1.90	0.40
1:D:415:ASN:HA	1:D:418:ARG:HD2	2.02	0.40
1:D:528:GLU:OE2	1:D:967:ARG:NH2	2.55	0.40
1:D:579:PRO:HA	1:D:580:PRO:HD3	1.94	0.40
1:D:713:GLN:O	1:D:714:ARG:HB2	2.22	0.40
1:D:754:GLY:O	1:D:755:SER:O	2.39	0.40
1:D:985:VAL:N	1:D:986:PRO:CD	2.85	0.40
1:E:99:ASP:OD2	1:E:101:ASP:HB2	2.21	0.40
1:E:158:ILE:O	1:E:163:GLN:HB2	2.22	0.40
1:F:75:LEU:C	1:F:75:LEU:HD23	2.41	0.40
1:F:175:PHE:CD2	1:F:175:PHE:C	2.94	0.40
1:F:668:PRO:HA	1:F:669:PRO:HD3	1.75	0.40
1:F:753:TRP:HZ2	1:F:785:LEU:HA	1.86	0.40
1:F:757:TYR:HE1	1:F:769:ARG:CG	2.35	0.40
1:F:939:LYS:NZ	1:F:976:THR:HG21	2.33	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [\(i\)](#)

5.3.1 Protein backbone [\(i\)](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	999/1052 (95%)	830 (83%)	123 (12%)	46 (5%)	2	14
1	B	1028/1052 (98%)	863 (84%)	147 (14%)	18 (2%)	8	37
1	C	1028/1052 (98%)	859 (84%)	143 (14%)	26 (2%)	5	28
1	D	990/1052 (94%)	820 (83%)	132 (13%)	38 (4%)	3	18
1	E	1006/1052 (96%)	847 (84%)	141 (14%)	18 (2%)	8	37
1	F	1028/1052 (98%)	866 (84%)	136 (13%)	26 (2%)	5	28
All	All	6079/6312 (96%)	5085 (84%)	822 (14%)	172 (3%)	5	25

All (172) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	62	VAL
1	A	134	LYS
1	A	203	VAL
1	A	204	SER
1	A	498	LYS
1	A	524	THR
1	A	532	ALA
1	A	533	SER
1	A	538	ARG
1	A	539	ALA
1	A	671	VAL
1	A	755	SER
1	A	866	ARG
1	A	872	ALA
1	A	917	MET
1	C	96	GLN
1	C	690	VAL
1	C	779	ARG
1	C	801	ASN
1	D	134	LYS
1	D	203	VAL
1	D	204	SER
1	D	498	LYS
1	D	524	THR
1	D	532	ALA
1	D	533	SER
1	D	538	ARG
1	D	539	ALA
1	D	866	ARG
1	D	872	ALA

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	D	917	MET
1	E	691	GLY
1	F	96	GLN
1	F	690	VAL
1	F	779	ARG
1	F	801	ASN
1	A	158	ILE
1	A	221	GLY
1	A	471	SER
1	A	523	THR
1	A	689	GLY
1	A	795	GLY
1	A	835	SER
1	B	439	GLN
1	B	563	PHE
1	B	657	SER
1	B	658	PHE
1	B	691	GLY
1	C	112	GLN
1	C	720	MET
1	C	721	SER
1	D	62	VAL
1	D	221	GLY
1	D	471	SER
1	D	523	THR
1	D	689	GLY
1	D	755	SER
1	D	835	SER
1	E	28	LEU
1	E	439	GLN
1	E	563	PHE
1	E	657	SER
1	E	658	PHE
1	F	112	GLN
1	F	217	GLY
1	F	720	MET
1	F	721	SER
1	A	542	LEU
1	A	595	ARG
1	A	596	GLU
1	A	710	PRO
1	A	870	SER

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	B	28	LEU
1	B	137	LEU
1	B	570	GLY
1	C	217	GLY
1	C	424	GLY
1	C	717	PRO
1	C	875	LEU
1	D	148	SER
1	D	158	ILE
1	D	319	GLN
1	D	542	LEU
1	D	595	ARG
1	D	596	GLU
1	D	792	ASN
1	D	870	SER
1	E	137	LEU
1	E	570	GLY
1	F	717	PRO
1	F	875	LEU
1	F	877	ALA
1	A	148	SER
1	A	564	LEU
1	A	639	GLY
1	A	690	VAL
1	A	787	LYS
1	A	819	ASN
1	A	839	ALA
1	A	865	GLU
1	B	306	ILE
1	B	677	ALA
1	B	750	SER
1	C	147	GLY
1	C	256	ASP
1	C	361	ASN
1	C	521	LEU
1	C	877	ALA
1	C	993	ALA
1	D	564	LEU
1	D	639	GLY
1	D	838	ASP
1	D	839	ALA
1	D	865	GLU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	E	29	SER
1	E	306	ILE
1	E	750	SER
1	F	147	GLY
1	F	256	ASP
1	F	361	ASN
1	F	424	GLY
1	F	521	LEU
1	F	993	ALA
1	A	276	SER
1	A	319	GLN
1	A	838	ASP
1	A	867	LEU
1	B	29	SER
1	B	57	VAL
1	B	195	SER
1	B	339	GLU
1	B	633	PRO
1	C	433	LYS
1	C	658	PHE
1	C	659	LYS
1	D	159	VAL
1	D	690	VAL
1	D	867	LEU
1	E	195	SER
1	E	633	PRO
1	F	433	LYS
1	F	658	PHE
1	F	659	LYS
1	B	310	ILE
1	C	804	ALA
1	E	57	VAL
1	E	310	ILE
1	E	954	GLN
1	F	804	ALA
1	A	438	ILE
1	A	530	GLY
1	C	638	PRO
1	C	719	GLY
1	D	438	ILE
1	F	719	GLY
1	D	715	VAL

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	F	638	PRO
1	F	846	ILE
1	A	919	GLY
1	C	310	ILE
1	C	715	VAL
1	C	846	ILE
1	F	310	ILE
1	A	236	GLY
1	A	715	VAL
1	A	989	ILE
1	B	539	ALA
1	D	236	GLY
1	E	539	ALA
1	E	580	PRO
1	A	873	PRO
1	F	715	VAL

5.3.2 Protein sidechains [i](#)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	823/860 (96%)	697 (85%)	126 (15%)	2	13
1	B	841/860 (98%)	736 (88%)	105 (12%)	4	20
1	C	841/860 (98%)	755 (90%)	86 (10%)	7	28
1	D	816/860 (95%)	695 (85%)	121 (15%)	3	14
1	E	829/860 (96%)	727 (88%)	102 (12%)	4	21
1	F	841/860 (98%)	751 (89%)	90 (11%)	6	26
All	All	4991/5160 (97%)	4361 (87%)	630 (13%)	4	20

All (630) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	10	ILE
1	A	11	PHE

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	A	15	ILE
1	A	21	LEU
1	A	25	LEU
1	A	34	GLN
1	A	38	ILE
1	A	43	ILE
1	A	49	TYR
1	A	55	GLU
1	A	56	THR
1	A	65	ILE
1	A	69	MET
1	A	75	LEU
1	A	76	ARG
1	A	79	SER
1	A	88	MET
1	A	90	ILE
1	A	92	VAL
1	A	140	VAL
1	A	166	LEU
1	A	170	LYS
1	A	181	GLN
1	A	184	MET
1	A	190	PRO
1	A	193	LEU
1	A	194	ASN
1	A	195	SER
1	A	196	TYR
1	A	197	GLN
1	A	207	ILE
1	A	226	LYS
1	A	233	THR
1	A	235	ILE
1	A	239	ARG
1	A	241	GLN
1	A	244	GLU
1	A	249	ILE
1	A	250	LEU
1	A	254	ASN
1	A	259	GLN
1	A	265	VAL
1	A	289	ILE
1	A	306	ILE

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	A	310	ILE
1	A	348	ILE
1	A	351	VAL
1	A	353	LEU
1	A	356	TYR
1	A	363	ARG
1	A	367	ILE
1	A	370	ILE
1	A	391	ASN
1	A	405	LEU
1	A	418	ARG
1	A	425	LEU
1	A	437	GLN
1	A	475	VAL
1	A	483	ILE
1	A	488	LEU
1	A	497	LEU
1	A	521	LEU
1	A	523	THR
1	A	524	THR
1	A	528	GLU
1	A	534	ILE
1	A	537	HIS
1	A	538	ARG
1	A	544	ILE
1	A	555	MET
1	A	556	PHE
1	A	596	GLU
1	A	599	LEU
1	A	616	ASN
1	A	620	ARG
1	A	634	TRP
1	A	643	SER
1	A	644	VAL
1	A	647	LEU
1	A	659	LYS
1	A	666	PHE
1	A	671	VAL
1	A	680	PHE
1	A	681	ASP
1	A	708	GLN
1	A	709	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	A	742	LEU
1	A	745	ILE
1	A	759	ASN
1	A	769	ARG
1	A	770	VAL
1	A	772	LEU
1	A	777	ASP
1	A	784	ASP
1	A	791	ARG
1	A	792	ASN
1	A	794	LYS
1	A	800	PHE
1	A	808	TRP
1	A	810	TYR
1	A	814	LYS
1	A	815	LEU
1	A	821	VAL
1	A	826	ILE
1	A	838	ASP
1	A	848	LYS
1	A	859	THR
1	A	861	LEU
1	A	871	GLN
1	A	875	LEU
1	A	885	LEU
1	A	890	LEU
1	A	896	ILE
1	A	901	MET
1	A	906	LEU
1	A	932	THR
1	A	933	THR
1	A	934	ILE
1	A	944	ILE
1	A	952	HIS
1	A	958	ILE
1	A	964	GLU
1	A	973	ILE
1	A	976	THR
1	A	978	LEU
1	A	981	ILE
1	B	14	VAL
1	B	17	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	B	33	ASN
1	B	34	GLN
1	B	38	ILE
1	B	47	VAL
1	B	49	TYR
1	B	55	GLU
1	B	58	GLN
1	B	70	ASN
1	B	82	SER
1	B	83	ASN
1	B	88	MET
1	B	90	ILE
1	B	107	VAL
1	B	108	GLN
1	B	110	LYS
1	B	113	LEU
1	B	117	LEU
1	B	118	LEU
1	B	121	GLU
1	B	127	ILE
1	B	129	VAL
1	B	130	THR
1	B	135	ASN
1	B	152	GLU
1	B	166	LEU
1	B	178	PHE
1	B	205	SER
1	B	207	ILE
1	B	242	THR
1	B	249	ILE
1	B	256	ASP
1	B	262	LEU
1	B	289	ILE
1	B	295	THR
1	B	301	ASP
1	B	312	ASN
1	B	324	VAL
1	B	329	THR
1	B	330	THR
1	B	348	ILE
1	B	352	PHE
1	B	357	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	B	365	THR
1	B	379	THR
1	B	392	THR
1	B	394	THR
1	B	405	LEU
1	B	407	ASP
1	B	410	ILE
1	B	414	GLU
1	B	428	ARG
1	B	445	ILE
1	B	462	SER
1	B	463	THR
1	B	474	ILE
1	B	483	ILE
1	B	487	ILE
1	B	488	LEU
1	B	515	TRP
1	B	521	LEU
1	B	522	SER
1	B	533	SER
1	B	544	ILE
1	B	548	ILE
1	B	552	MET
1	B	561	THR
1	B	566	ASP
1	B	577	GLN
1	B	578	THR
1	B	589	VAL
1	B	611	THR
1	B	612	VAL
1	B	637	ARG
1	B	641	GLU
1	B	646	GLU
1	B	647	LEU
1	B	673	GLU
1	B	678	THR
1	B	681	ASP
1	B	695	LEU
1	B	749	VAL
1	B	762	ILE
1	B	772	LEU
1	B	792	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	B	801	ASN
1	B	803	PHE
1	B	812	SER
1	B	817	ARG
1	B	821	VAL
1	B	880	LEU
1	B	881	LEU
1	B	890	LEU
1	B	896	ILE
1	B	922	ASN
1	B	933	THR
1	B	942	ILE
1	B	944	ILE
1	B	946	GLU
1	B	958	ILE
1	B	959	VAL
1	B	963	ILE
1	B	973	ILE
1	B	975	MET
1	C	1	MET
1	C	11	PHE
1	C	15	ILE
1	C	19	ILE
1	C	21	LEU
1	C	26	SER
1	C	38	ILE
1	C	47	VAL
1	C	55	GLU
1	C	56	THR
1	C	78	ILE
1	C	85	ASP
1	C	89	THR
1	C	98	THR
1	C	137	LEU
1	C	138	MET
1	C	148	SER
1	C	174	ASP
1	C	230	LEU
1	C	235	ILE
1	C	238	THR
1	C	262	LEU
1	C	287	SER

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	C	289	ILE
1	C	291	ILE
1	C	329	THR
1	C	330	THR
1	C	337	ILE
1	C	340	VAL
1	C	348	ILE
1	C	357	LEU
1	C	367	ILE
1	C	370	ILE
1	C	394	THR
1	C	414	GLU
1	C	415	ASN
1	C	425	LEU
1	C	433	LYS
1	C	434	SER
1	C	445	ILE
1	C	450	SER
1	C	456	MET
1	C	466	ILE
1	C	469	GLN
1	C	472	ILE
1	C	483	ILE
1	C	488	LEU
1	C	489	THR
1	C	534	ILE
1	C	544	ILE
1	C	548	ILE
1	C	553	ILE
1	C	561	THR
1	C	578	THR
1	C	611	THR
1	C	629	ILE
1	C	634	TRP
1	C	663	VAL
1	C	666	PHE
1	C	674	LEU
1	C	681	ASP
1	C	699	ARG
1	C	704	MET
1	C	712	LEU
1	C	714	ARG

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	C	720	MET
1	C	730	ILE
1	C	762	ILE
1	C	826	ILE
1	C	856	TYR
1	C	859	THR
1	C	867	LEU
1	C	875	LEU
1	C	879	SER
1	C	881	LEU
1	C	890	LEU
1	C	903	VAL
1	C	932	THR
1	C	934	ILE
1	C	942	ILE
1	C	958	ILE
1	C	964	GLU
1	C	981	ILE
1	C	982	LEU
1	C	991	THR
1	C	1015	LEU
1	D	10	ILE
1	D	11	PHE
1	D	15	ILE
1	D	21	LEU
1	D	25	LEU
1	D	34	GLN
1	D	38	ILE
1	D	49	TYR
1	D	55	GLU
1	D	65	ILE
1	D	69	MET
1	D	75	LEU
1	D	76	ARG
1	D	79	SER
1	D	88	MET
1	D	90	ILE
1	D	92	VAL
1	D	140	VAL
1	D	166	LEU
1	D	170	LYS
1	D	181	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	D	184	MET
1	D	190	PRO
1	D	193	LEU
1	D	194	ASN
1	D	195	SER
1	D	196	TYR
1	D	197	GLN
1	D	207	ILE
1	D	226	LYS
1	D	233	THR
1	D	235	ILE
1	D	239	ARG
1	D	241	GLN
1	D	244	GLU
1	D	249	ILE
1	D	250	LEU
1	D	265	VAL
1	D	289	ILE
1	D	306	ILE
1	D	310	ILE
1	D	316	PHE
1	D	348	ILE
1	D	351	VAL
1	D	353	LEU
1	D	356	TYR
1	D	363	ARG
1	D	367	ILE
1	D	370	ILE
1	D	391	ASN
1	D	405	LEU
1	D	418	ARG
1	D	425	LEU
1	D	437	GLN
1	D	475	VAL
1	D	483	ILE
1	D	488	LEU
1	D	497	LEU
1	D	523	THR
1	D	524	THR
1	D	528	GLU
1	D	534	ILE
1	D	537	HIS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	D	538	ARG
1	D	544	ILE
1	D	555	MET
1	D	556	PHE
1	D	596	GLU
1	D	599	LEU
1	D	616	ASN
1	D	620	ARG
1	D	634	TRP
1	D	643	SER
1	D	644	VAL
1	D	647	LEU
1	D	659	LYS
1	D	666	PHE
1	D	680	PHE
1	D	681	ASP
1	D	690	VAL
1	D	742	LEU
1	D	745	ILE
1	D	759	ASN
1	D	769	ARG
1	D	770	VAL
1	D	772	LEU
1	D	777	ASP
1	D	784	ASP
1	D	792	ASN
1	D	794	LYS
1	D	797	MET
1	D	800	PHE
1	D	805	THR
1	D	808	TRP
1	D	810	TYR
1	D	814	LYS
1	D	815	LEU
1	D	826	ILE
1	D	838	ASP
1	D	848	LYS
1	D	859	THR
1	D	861	LEU
1	D	871	GLN
1	D	875	LEU
1	D	885	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	D	890	LEU
1	D	896	ILE
1	D	901	MET
1	D	906	LEU
1	D	930	LEU
1	D	932	THR
1	D	933	THR
1	D	934	ILE
1	D	944	ILE
1	D	952	HIS
1	D	958	ILE
1	D	964	GLU
1	D	973	ILE
1	D	976	THR
1	D	978	LEU
1	D	981	ILE
1	E	14	VAL
1	E	17	LEU
1	E	33	ASN
1	E	34	GLN
1	E	38	ILE
1	E	47	VAL
1	E	49	TYR
1	E	55	GLU
1	E	58	GLN
1	E	70	ASN
1	E	82	SER
1	E	83	ASN
1	E	88	MET
1	E	90	ILE
1	E	107	VAL
1	E	108	GLN
1	E	110	LYS
1	E	113	LEU
1	E	117	LEU
1	E	118	LEU
1	E	121	GLU
1	E	127	ILE
1	E	129	VAL
1	E	130	THR
1	E	133	VAL
1	E	135	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	E	152	GLU
1	E	166	LEU
1	E	178	PHE
1	E	207	ILE
1	E	242	THR
1	E	249	ILE
1	E	256	ASP
1	E	262	LEU
1	E	289	ILE
1	E	295	THR
1	E	301	ASP
1	E	312	ASN
1	E	324	VAL
1	E	329	THR
1	E	330	THR
1	E	348	ILE
1	E	352	PHE
1	E	357	LEU
1	E	365	THR
1	E	379	THR
1	E	392	THR
1	E	394	THR
1	E	405	LEU
1	E	407	ASP
1	E	410	ILE
1	E	414	GLU
1	E	428	ARG
1	E	445	ILE
1	E	462	SER
1	E	463	THR
1	E	474	ILE
1	E	483	ILE
1	E	487	ILE
1	E	488	LEU
1	E	515	TRP
1	E	521	LEU
1	E	522	SER
1	E	533	SER
1	E	544	ILE
1	E	548	ILE
1	E	552	MET
1	E	561	THR

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	E	566	ASP
1	E	577	GLN
1	E	578	THR
1	E	589	VAL
1	E	611	THR
1	E	612	VAL
1	E	637	ARG
1	E	641	GLU
1	E	646	GLU
1	E	647	LEU
1	E	695	LEU
1	E	762	ILE
1	E	772	LEU
1	E	792	ASN
1	E	801	ASN
1	E	803	PHE
1	E	812	SER
1	E	817	ARG
1	E	821	VAL
1	E	880	LEU
1	E	881	LEU
1	E	890	LEU
1	E	896	ILE
1	E	922	ASN
1	E	933	THR
1	E	942	ILE
1	E	944	ILE
1	E	946	GLU
1	E	958	ILE
1	E	959	VAL
1	E	963	ILE
1	E	973	ILE
1	E	975	MET
1	E	1011	THR
1	F	1	MET
1	F	11	PHE
1	F	15	ILE
1	F	19	ILE
1	F	21	LEU
1	F	26	SER
1	F	38	ILE
1	F	47	VAL

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	F	55	GLU
1	F	56	THR
1	F	77	TYR
1	F	78	ILE
1	F	85	ASP
1	F	89	THR
1	F	98	THR
1	F	137	LEU
1	F	138	MET
1	F	148	SER
1	F	174	ASP
1	F	230	LEU
1	F	235	ILE
1	F	238	THR
1	F	249	ILE
1	F	262	LEU
1	F	287	SER
1	F	289	ILE
1	F	291	ILE
1	F	329	THR
1	F	330	THR
1	F	337	ILE
1	F	340	VAL
1	F	348	ILE
1	F	357	LEU
1	F	367	ILE
1	F	370	ILE
1	F	394	THR
1	F	414	GLU
1	F	415	ASN
1	F	425	LEU
1	F	433	LYS
1	F	434	SER
1	F	445	ILE
1	F	450	SER
1	F	456	MET
1	F	466	ILE
1	F	469	GLN
1	F	472	ILE
1	F	481	SER
1	F	483	ILE
1	F	488	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	F	489	THR
1	F	534	ILE
1	F	544	ILE
1	F	548	ILE
1	F	553	ILE
1	F	561	THR
1	F	578	THR
1	F	611	THR
1	F	629	ILE
1	F	634	TRP
1	F	663	VAL
1	F	666	PHE
1	F	674	LEU
1	F	681	ASP
1	F	699	ARG
1	F	704	MET
1	F	712	LEU
1	F	714	ARG
1	F	720	MET
1	F	730	ILE
1	F	762	ILE
1	F	826	ILE
1	F	856	TYR
1	F	859	THR
1	F	867	LEU
1	F	875	LEU
1	F	879	SER
1	F	881	LEU
1	F	890	LEU
1	F	903	VAL
1	F	932	THR
1	F	934	ILE
1	F	942	ILE
1	F	946	GLU
1	F	958	ILE
1	F	964	GLU
1	F	981	ILE
1	F	982	LEU
1	F	991	THR
1	F	1015	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (158) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	33	ASN
1	A	34	GLN
1	A	68	GLN
1	A	83	ASN
1	A	96	GLN
1	A	156	ASN
1	A	181	GLN
1	A	194	ASN
1	A	213	GLN
1	A	228	GLN
1	A	245	GLN
1	A	254	ASN
1	A	259	GLN
1	A	273	GLN
1	A	308	GLN
1	A	360	GLN
1	A	437	GLN
1	A	569	GLN
1	A	575	GLN
1	A	577	GLN
1	A	616	ASN
1	A	642	ASN
1	A	654	HIS
1	A	700	ASN
1	A	709	ASN
1	A	725	GLN
1	A	792	ASN
1	A	819	ASN
1	A	871	GLN
1	A	922	ASN
1	A	952	HIS
1	B	33	ASN
1	B	34	GLN
1	B	46	GLN
1	B	67	GLN
1	B	104	GLN
1	B	108	GLN
1	B	125	GLN
1	B	156	ASN
1	B	161	ASN
1	B	163	GLN
1	B	176	GLN
1	B	181	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	B	211	ASN
1	B	228	GLN
1	B	231	ASN
1	B	245	GLN
1	B	278	ASN
1	B	308	GLN
1	B	312	ASN
1	B	391	ASN
1	B	415	ASN
1	B	575	GLN
1	B	588	GLN
1	B	652	GLN
1	B	676	ASN
1	B	685	GLN
1	B	687	GLN
1	B	692	HIS
1	B	759	ASN
1	B	773	GLN
1	B	792	ASN
1	B	922	ASN
1	C	34	GLN
1	C	67	GLN
1	C	125	GLN
1	C	280	GLN
1	C	282	ASN
1	C	319	GLN
1	C	391	ASN
1	C	415	ASN
1	C	437	GLN
1	C	439	GLN
1	C	469	GLN
1	C	508	HIS
1	C	652	GLN
1	C	713	GLN
1	C	759	ASN
1	D	33	ASN
1	D	34	GLN
1	D	68	GLN
1	D	83	ASN
1	D	96	GLN
1	D	108	GLN
1	D	156	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	D	163	GLN
1	D	181	GLN
1	D	194	ASN
1	D	213	GLN
1	D	228	GLN
1	D	231	ASN
1	D	245	GLN
1	D	273	GLN
1	D	308	GLN
1	D	360	GLN
1	D	437	GLN
1	D	575	GLN
1	D	577	GLN
1	D	616	ASN
1	D	622	GLN
1	D	642	ASN
1	D	652	GLN
1	D	654	HIS
1	D	697	GLN
1	D	700	ASN
1	D	708	GLN
1	D	725	GLN
1	D	792	ASN
1	D	819	ASN
1	D	871	GLN
1	D	922	ASN
1	D	952	HIS
1	E	33	ASN
1	E	34	GLN
1	E	46	GLN
1	E	67	GLN
1	E	104	GLN
1	E	108	GLN
1	E	125	GLN
1	E	156	ASN
1	E	161	ASN
1	E	163	GLN
1	E	176	GLN
1	E	181	GLN
1	E	211	ASN
1	E	228	GLN
1	E	231	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	E	245	GLN
1	E	278	ASN
1	E	308	GLN
1	E	312	ASN
1	E	391	ASN
1	E	415	ASN
1	E	575	GLN
1	E	588	GLN
1	E	652	GLN
1	E	685	GLN
1	E	692	HIS
1	E	759	ASN
1	E	773	GLN
1	E	792	ASN
1	E	922	ASN
1	F	34	GLN
1	F	67	GLN
1	F	125	GLN
1	F	280	GLN
1	F	282	ASN
1	F	319	GLN
1	F	391	ASN
1	F	415	ASN
1	F	437	GLN
1	F	439	GLN
1	F	469	GLN
1	F	508	HIS
1	F	517	ASN
1	F	652	GLN
1	F	713	GLN
1	F	759	ASN

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 monosaccharides in this entry.

5.6 Ligand geometry [i](#)

8 ligands are modelled in this entry.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
2	LMT	B	2032	-	36,36,36	0.76	1 (2%)	47,47,47	2.01	9 (19%)
2	LMT	D	2026	-	36,36,36	0.71	1 (2%)	47,47,47	1.76	8 (17%)
2	LMT	A	2026	-	36,36,36	0.57	0	47,47,47	1.44	6 (12%)
2	LMT	E	2031	-	36,36,36	0.89	1 (2%)	47,47,47	1.81	9 (19%)
2	LMT	B	2033	-	36,36,36	1.19	3 (8%)	47,47,47	3.63	19 (40%)
2	LMT	E	2033	-	36,36,36	1.11	4 (11%)	47,47,47	3.55	18 (38%)
2	LMT	E	2032	-	36,36,36	0.62	1 (2%)	47,47,47	1.40	5 (10%)
2	LMT	B	2031	-	36,36,36	0.97	1 (2%)	47,47,47	1.42	9 (19%)

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	LMT	B	2032	-	-	0/21/61/61	0/2/2/2
2	LMT	D	2026	-	-	4/21/61/61	0/2/2/2
2	LMT	A	2026	-	-	6/21/61/61	0/2/2/2
2	LMT	E	2031	-	-	1/21/61/61	0/2/2/2
2	LMT	B	2033	-	-	7/21/61/61	0/2/2/2
2	LMT	E	2033	-	-	7/21/61/61	0/2/2/2
2	LMT	E	2032	-	-	5/21/61/61	0/2/2/2
2	LMT	B	2031	-	-	1/21/61/61	0/2/2/2

All (12) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	2033	LMT	O1 ² -C1'	4.28	1.47	1.40
2	E	2033	LMT	O1 ² -C1'	3.77	1.46	1.40
2	B	2032	LMT	O1 ² -C1'	3.68	1.46	1.40
2	B	2031	LMT	O1 ² -C1'	3.41	1.46	1.40
2	E	2031	LMT	O1 ² -C1'	3.16	1.45	1.40
2	B	2033	LMT	C4 ³ -C5'	2.54	1.59	1.52
2	D	2026	LMT	O1 ² -C1'	2.43	1.44	1.40
2	E	2032	LMT	O1 ² -C1'	2.42	1.44	1.40
2	B	2033	LMT	O5 ² -C5'	2.13	1.49	1.44
2	E	2033	LMT	O5 ² -C5'	2.11	1.49	1.44
2	E	2033	LMT	O1B-C1B	2.07	1.47	1.41
2	E	2033	LMT	C4 ³ -C5'	2.03	1.58	1.52

All (83) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	2033	LMT	C1-O1 ² -C1'	14.36	137.65	113.84
2	E	2033	LMT	C1-O1 ² -C1'	13.64	136.47	113.84
2	B	2033	LMT	C1B-O1B-C4'	-10.03	93.14	117.96
2	E	2033	LMT	C1B-O1B-C4'	-9.66	94.06	117.96
2	B	2033	LMT	C3 ² -C4 ³ -C5'	-7.90	92.81	110.93
2	E	2033	LMT	C3 ² -C4 ³ -C5'	-7.84	92.95	110.93
2	B	2032	LMT	C1-O1 ² -C1'	-7.54	101.33	113.84
2	E	2031	LMT	C1-O1 ² -C1'	-6.67	102.78	113.84
2	E	2032	LMT	C1-O1 ² -C1'	-6.41	103.21	113.84
2	E	2033	LMT	O5 ² -C5 ² -C4'	6.10	122.62	109.75
2	B	2033	LMT	O5 ² -C5 ² -C4'	6.08	122.58	109.75
2	B	2032	LMT	C3 ² -C4 ³ -C5'	-5.64	98.00	110.93
2	D	2026	LMT	O1 ² -C1 ² -C2'	5.63	117.10	108.30
2	E	2033	LMT	O1 ² -C1-C2	5.37	128.37	109.56
2	B	2033	LMT	O1B-C4 ³ -C5'	4.88	122.81	109.45
2	E	2033	LMT	O1B-C4 ³ -C5'	4.76	122.48	109.45
2	D	2026	LMT	O1 ² -C1-C2	-4.71	93.06	109.56
2	B	2033	LMT	O1B-C4 ³ -C3'	-4.49	95.33	107.28
2	D	2026	LMT	O5 ² -C5 ² -C6'	-4.33	95.67	106.44
2	B	2033	LMT	O1 ² -C1-C2	4.28	124.58	109.56
2	B	2032	LMT	C6B-C5B-C4B	-4.24	103.08	113.00
2	E	2031	LMT	O5B-C5B-C6B	4.21	116.91	106.44
2	E	2033	LMT	O5 ² -C1 ² -O1'	4.14	119.78	109.97
2	E	2033	LMT	O1B-C1B-O5B	4.14	122.23	110.67
2	E	2031	LMT	O1 ² -C1-C2	4.04	123.72	109.56
2	B	2033	LMT	O5 ² -C1 ² -O1'	4.01	119.46	109.97

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	2026	LMT	O1'-C1'-C2'	4.00	114.54	108.30
2	E	2033	LMT	C4B-C3B-C2B	-3.99	103.85	110.82
2	B	2033	LMT	O1B-C1B-O5B	3.95	121.71	110.67
2	B	2033	LMT	O1'-C1'-C2'	3.90	114.39	108.30
2	B	2033	LMT	C4B-C3B-C2B	-3.74	104.29	110.82
2	E	2033	LMT	O2B-C2B-C1B	3.66	118.93	110.05
2	E	2033	LMT	O1B-C4'-C3'	-3.59	97.73	107.28
2	E	2031	LMT	C6'-C5'-C4'	-3.57	102.94	113.33
2	E	2031	LMT	O1'-C1'-C2'	3.49	113.75	108.30
2	B	2033	LMT	C3B-C4B-C5B	-3.44	104.11	110.24
2	B	2033	LMT	O2B-C2B-C1B	3.43	118.39	110.05
2	E	2033	LMT	C3B-C4B-C5B	-3.39	104.19	110.24
2	D	2026	LMT	O1B-C4'-C5'	3.38	118.71	109.45
2	B	2031	LMT	C3'-C4'-C5'	-3.33	103.29	110.93
2	B	2032	LMT	O5'-C1'-O1'	3.33	117.85	109.97
2	D	2026	LMT	O5'-C1'-C2'	-3.28	103.40	110.35
2	B	2032	LMT	O1B-C1B-O5B	3.26	119.78	110.67
2	E	2033	LMT	O1'-C1'-C2'	3.25	113.38	108.30
2	D	2026	LMT	O5'-C1'-O1'	-3.21	102.36	109.97
2	E	2033	LMT	C1B-O5B-C5B	-3.18	107.44	113.69
2	B	2031	LMT	O5'-C1'-O1'	3.15	117.44	109.97
2	B	2033	LMT	O5B-C5B-C4B	3.09	115.31	109.69
2	A	2026	LMT	O1B-C4'-C3'	3.07	115.45	107.28
2	B	2033	LMT	C1B-O5B-C5B	-3.00	107.80	113.69
2	A	2026	LMT	O5'-C5'-C6'	-3.00	98.99	106.44
2	E	2032	LMT	O1B-C1B-O5B	-2.99	102.32	110.67
2	B	2033	LMT	C6B-C5B-C4B	-2.95	106.10	113.00
2	E	2033	LMT	C6B-C5B-C4B	-2.93	106.14	113.00
2	B	2033	LMT	O5'-C1'-C2'	-2.93	104.15	110.35
2	B	2033	LMT	C2'-C3'-C4'	2.92	116.36	109.68
2	B	2031	LMT	O1B-C4'-C5'	2.90	117.39	109.45
2	A	2026	LMT	O5'-C1'-O1'	-2.89	103.12	109.97
2	E	2033	LMT	O5B-C5B-C4B	2.84	114.85	109.69
2	E	2031	LMT	O1B-C1B-O5B	-2.79	102.87	110.67
2	E	2031	LMT	O1B-C4'-C3'	2.78	114.69	107.28
2	B	2031	LMT	C1-O1'-C1'	-2.73	109.31	113.84
2	A	2026	LMT	C6'-C5'-C4'	-2.73	105.38	113.33
2	E	2033	LMT	C2'-C3'-C4'	2.73	115.91	109.68
2	B	2031	LMT	O1B-C1B-O5B	2.63	118.01	110.67
2	E	2033	LMT	O5'-C1'-C2'	-2.56	104.92	110.35
2	E	2032	LMT	O1'-C1'-C2'	2.47	112.16	108.30
2	B	2031	LMT	C4B-C3B-C2B	-2.45	106.54	110.82

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	2026	LMT	O1B-C1B-O5B	-2.45	103.83	110.67
2	E	2031	LMT	C1B-O1B-C4'	-2.44	111.92	117.96
2	E	2032	LMT	C1'-O5'-C5'	-2.44	108.90	113.69
2	E	2031	LMT	O1B-C1B-C2B	2.39	114.30	108.10
2	B	2032	LMT	C1B-C2B-C3B	2.35	114.89	110.00
2	B	2032	LMT	O1B-C1B-C2B	-2.35	102.02	108.10
2	D	2026	LMT	C6B-C5B-C4B	-2.30	107.61	113.00
2	B	2031	LMT	C1B-O1B-C4'	-2.27	112.35	117.96
2	B	2032	LMT	O1'-C1'-C2'	2.23	111.78	108.30
2	B	2032	LMT	C1B-O5B-C5B	2.23	118.06	113.69
2	B	2031	LMT	O5B-C1B-C2B	-2.18	105.74	110.35
2	B	2033	LMT	O2B-C2B-C3B	-2.17	105.34	110.35
2	E	2032	LMT	C9-C8-C7	-2.09	103.84	114.42
2	B	2031	LMT	C1B-C2B-C3B	2.05	114.27	110.00
2	D	2026	LMT	C4B-C3B-C2B	-2.03	107.28	110.82

There are no chirality outliers.

All (31) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	2026	LMT	O5'-C1'-O1'-C1
2	B	2033	LMT	O5'-C1'-O1'-C1
2	B	2033	LMT	C2-C1-O1'-C1'
2	D	2026	LMT	C2'-C1'-O1'-C1
2	D	2026	LMT	O5'-C1'-O1'-C1
2	E	2033	LMT	O5'-C1'-O1'-C1
2	E	2033	LMT	C2-C1-O1'-C1'
2	B	2033	LMT	O5B-C1B-O1B-C4'
2	E	2033	LMT	O5B-C1B-O1B-C4'
2	B	2033	LMT	C3'-C4'-O1B-C1B
2	E	2033	LMT	C3'-C4'-O1B-C1B
2	D	2026	LMT	C3'-C4'-O1B-C1B
2	D	2026	LMT	C5'-C4'-O1B-C1B
2	A	2026	LMT	C2'-C1'-O1'-C1
2	E	2032	LMT	O5B-C5B-C6B-O6B
2	A	2026	LMT	O5B-C5B-C6B-O6B
2	B	2033	LMT	C2'-C1'-O1'-C1
2	E	2033	LMT	C2'-C1'-O1'-C1
2	E	2032	LMT	C2-C1-O1'-C1'
2	E	2032	LMT	C3'-C4'-O1B-C1B
2	E	2033	LMT	C2B-C1B-O1B-C4'
2	A	2026	LMT	C3'-C4'-O1B-C1B

Continued on next page...

Continued from previous page...

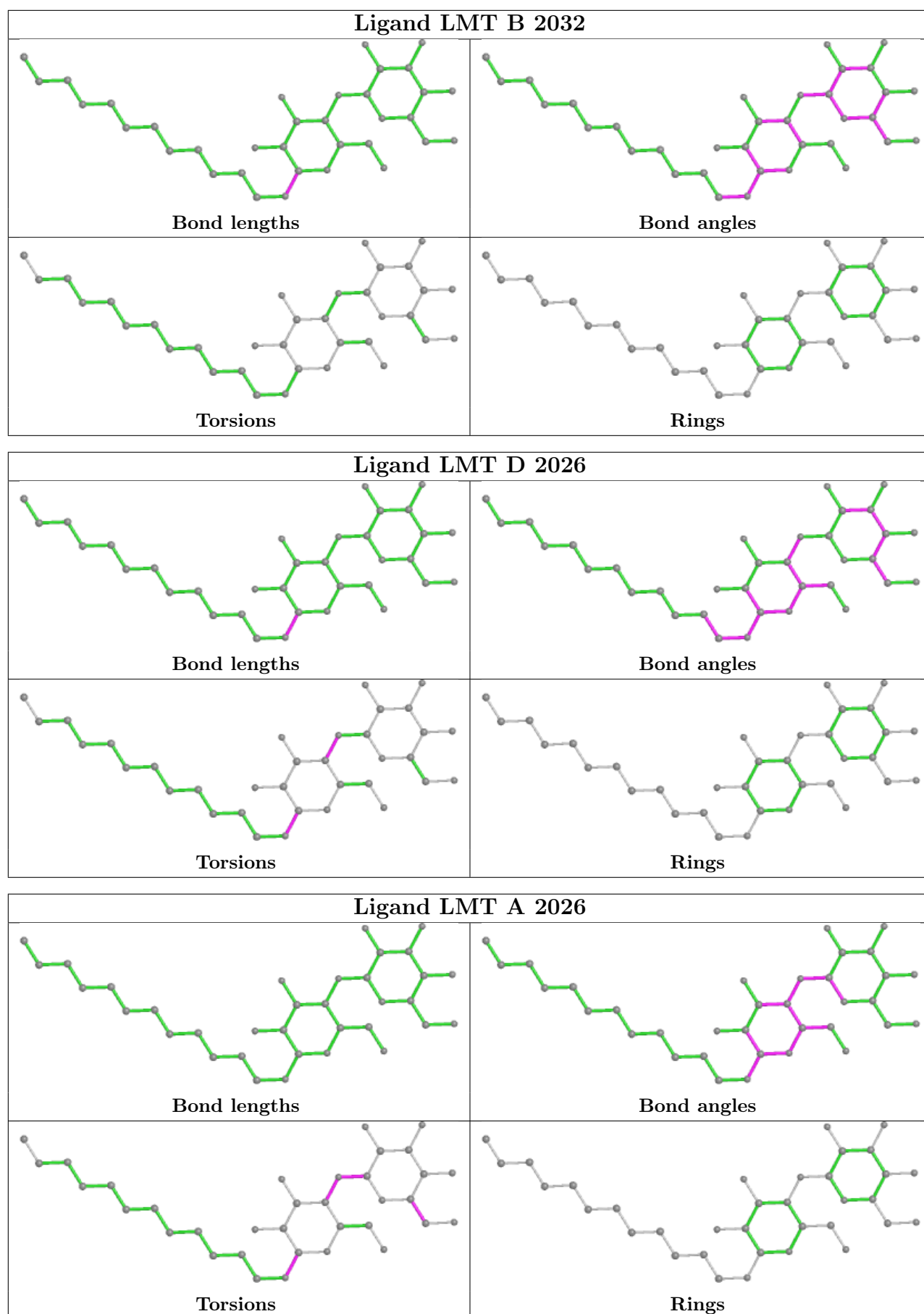
Mol	Chain	Res	Type	Atoms
2	E	2032	LMT	C2-C3-C4-C5
2	E	2032	LMT	C5'-C4'-O1B-C1B
2	E	2033	LMT	C4'-C5'-C6'-O6'
2	E	2031	LMT	C3'-C4'-O1B-C1B
2	B	2033	LMT	C4'-C5'-C6'-O6'
2	B	2033	LMT	C2B-C1B-O1B-C4'
2	B	2031	LMT	C3'-C4'-O1B-C1B
2	A	2026	LMT	C2B-C1B-O1B-C4'
2	A	2026	LMT	C5'-C4'-O1B-C1B

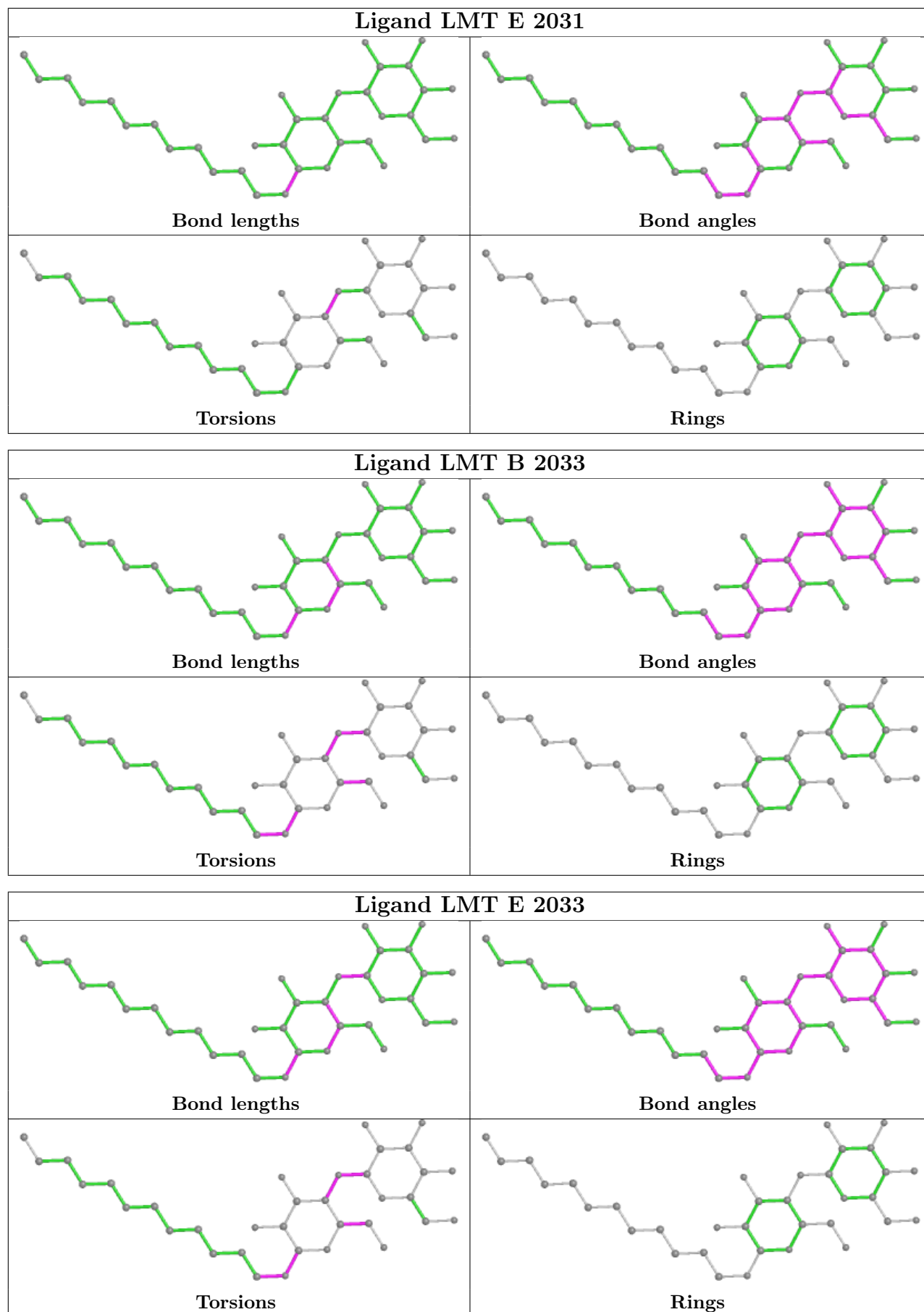
There are no ring outliers.

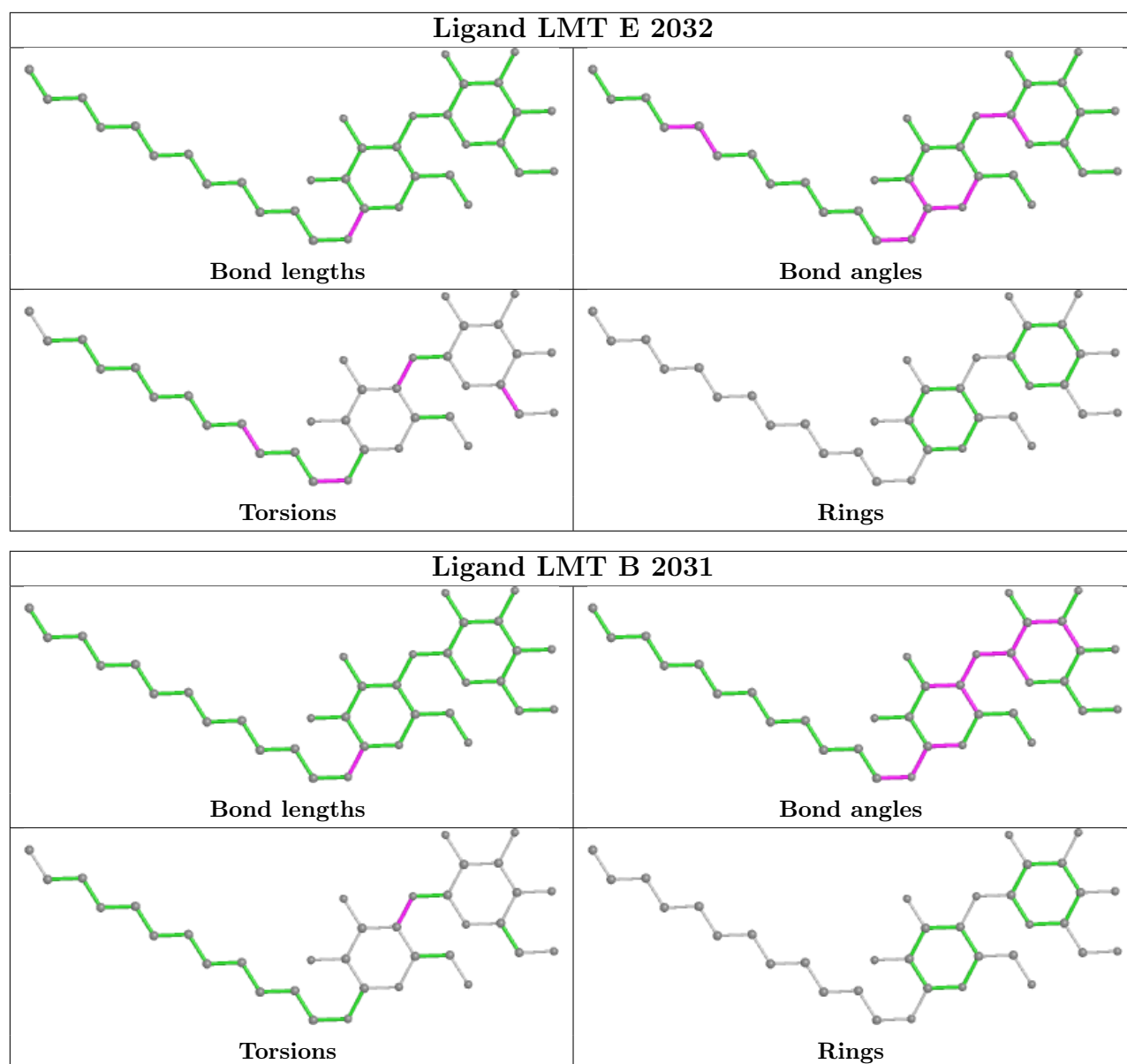
8 monomers are involved in 54 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	B	2032	LMT	4	0
2	D	2026	LMT	5	0
2	A	2026	LMT	10	0
2	E	2031	LMT	4	0
2	B	2033	LMT	8	0
2	E	2033	LMT	10	0
2	E	2032	LMT	8	0
2	B	2031	LMT	5	0

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







5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Fit of model and data

6.1 Protein, DNA and RNA chains

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	A	1004/1052 (95%)	-0.24	10 (0%) 82 59	54, 91, 132, 178	0
1	B	1030/1052 (97%)	-0.13	22 (2%) 63 34	53, 91, 143, 188	0
1	C	1028/1052 (97%)	-0.07	45 (4%) 34 13	58, 101, 178, 238	0
1	D	998/1052 (94%)	-0.28	19 (1%) 66 37	58, 91, 134, 179	0
1	E	1012/1052 (96%)	-0.15	38 (3%) 40 16	55, 93, 143, 189	0
1	F	1030/1052 (97%)	-0.09	46 (4%) 33 12	59, 100, 177, 238	0
All	All	6102/6312 (96%)	-0.16	180 (2%) 51 23	53, 94, 153, 238	0

All (180) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	F	803	PHE	7.4
1	E	260	VAL	6.6
1	E	251	LEU	6.0
1	C	778	ALA	6.0
1	F	753	TRP	5.3
1	F	660	ASP	5.2
1	C	503	GLY	5.0
1	A	841	ALA	4.8
1	F	640	GLY	4.8
1	C	783	ASP	4.7
1	D	585	GLU	4.6
1	C	505	HIS	4.6
1	D	252	LYS	4.6
1	F	745	ILE	4.3
1	F	659	LYS	4.3
1	F	744	ASP	4.3
1	E	506	GLY	4.2
1	E	834	LEU	4.2
1	B	140	VAL	4.1

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	C	203	VAL	4.1
1	E	833	GLY	4.0
1	F	251	LEU	4.0
1	E	252	LYS	4.0
1	E	732	ASP	3.9
1	C	790	VAL	3.9
1	C	638	PRO	3.9
1	B	162	ILE	3.9
1	B	678	THR	3.8
1	D	841	ALA	3.8
1	C	636	GLU	3.7
1	C	753	TRP	3.7
1	F	658	PHE	3.7
1	A	955	GLY	3.6
1	F	506	GLY	3.6
1	D	199	THR	3.6
1	E	250	LEU	3.6
1	D	635	GLU	3.5
1	D	785	LEU	3.5
1	E	229	GLN	3.5
1	C	721	SER	3.5
1	B	251	LEU	3.5
1	C	738	LEU	3.4
1	F	507	GLU	3.4
1	F	600	GLU	3.4
1	E	253	VAL	3.4
1	E	246	PHE	3.4
1	C	745	ILE	3.3
1	F	502	LYS	3.3
1	E	261	ARG	3.3
1	B	224	ALA	3.3
1	F	790	VAL	3.3
1	C	688	ALA	3.2
1	A	868	SER	3.2
1	E	507	GLU	3.2
1	C	507	GLU	3.2
1	C	805	THR	3.1
1	D	570	GLY	3.1
1	E	1030	LEU	3.1
1	B	141	GLY	3.1
1	E	600	GLU	3.1
1	B	237	LYS	3.1

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	C	199	THR	3.0
1	A	230	LEU	3.0
1	C	785	LEU	3.0
1	F	800	PHE	3.0
1	E	807	LYS	3.0
1	F	255	PRO	3.0
1	D	636	GLU	3.0
1	E	598	LEU	2.9
1	F	732	ASP	2.9
1	C	732	ASP	2.9
1	C	800	PHE	2.9
1	F	225	VAL	2.9
1	D	202	ASP	2.9
1	C	786	SER	2.9
1	F	250	LEU	2.8
1	C	200	PRO	2.8
1	C	198	LEU	2.8
1	E	262	LEU	2.8
1	C	147	GLY	2.8
1	A	147	GLY	2.8
1	F	261	ARG	2.7
1	C	265	VAL	2.7
1	D	840	MET	2.7
1	E	228	GLN	2.7
1	E	753	TRP	2.7
1	F	601	LYS	2.7
1	A	732	ASP	2.7
1	B	360	GLN	2.7
1	F	260	VAL	2.7
1	F	748	THR	2.7
1	F	591	VAL	2.7
1	C	794	LYS	2.6
1	D	264	ASP	2.6
1	E	655	PHE	2.6
1	C	259	GLN	2.6
1	D	251	LEU	2.6
1	B	498	LYS	2.6
1	B	289	ILE	2.6
1	E	561	THR	2.6
1	F	789	TYR	2.6
1	A	542	LEU	2.6
1	E	599	LEU	2.6

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	B	610	PHE	2.6
1	E	562	ALA	2.6
1	F	799	PRO	2.6
1	C	250	LEU	2.6
1	B	322	LYS	2.5
1	F	259	GLN	2.5
1	F	726	TYR	2.5
1	C	362	PHE	2.5
1	C	502	LYS	2.5
1	A	687	GLN	2.5
1	B	225	VAL	2.5
1	A	839	ALA	2.5
1	E	258	SER	2.5
1	E	708	GLN	2.4
1	E	704	MET	2.4
1	F	252	LYS	2.4
1	B	362	PHE	2.4
1	C	261	ARG	2.4
1	F	738	LEU	2.4
1	C	777	ASP	2.4
1	C	635	GLU	2.4
1	F	796	GLU	2.4
1	D	730	ILE	2.4
1	C	508	HIS	2.4
1	F	156	ASN	2.3
1	E	519	MET	2.3
1	E	805	THR	2.3
1	B	1030	LEU	2.3
1	C	854	VAL	2.3
1	F	788	TRP	2.3
1	C	730	ILE	2.3
1	E	788	TRP	2.3
1	F	224	ALA	2.3
1	F	265	VAL	2.3
1	C	600	GLU	2.3
1	D	248	ASN	2.3
1	F	258	SER	2.3
1	A	733	GLU	2.2
1	C	804	ALA	2.2
1	F	661	ALA	2.2
1	E	264	ASP	2.2
1	F	504	ASP	2.2

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	F	505	HIS	2.2
1	C	242	THR	2.2
1	F	200	PRO	2.2
1	C	251	LEU	2.2
1	F	246	PHE	2.2
1	C	726	TYR	2.2
1	E	832	PRO	2.2
1	D	690	VAL	2.2
1	C	728	LEU	2.2
1	B	581	GLY	2.2
1	E	509	LYS	2.2
1	B	587	THR	2.2
1	F	626	MET	2.2
1	B	250	LEU	2.2
1	D	583	SER	2.1
1	D	604	SER	2.1
1	B	260	VAL	2.1
1	C	801	ASN	2.1
1	B	263	LYS	2.1
1	D	263	LYS	2.1
1	F	253	VAL	2.1
1	B	849	GLN	2.1
1	E	849	GLN	2.1
1	E	778	ALA	2.1
1	F	226	LYS	2.1
1	C	852	LYS	2.1
1	F	262	LEU	2.1
1	C	640	GLY	2.1
1	F	188	LEU	2.1
1	E	254	ASN	2.1
1	E	266	ALA	2.1
1	E	697	GLN	2.0
1	B	800	PHE	2.0
1	C	743	ALA	2.0
1	D	160	SER	2.0

6.2 Non-standard residues in protein, DNA, RNA chains

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

6.3 Carbohydrates

There are no monosaccharides in this entry.

6.4 Ligands

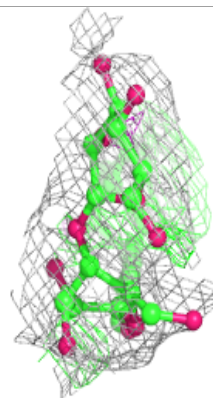
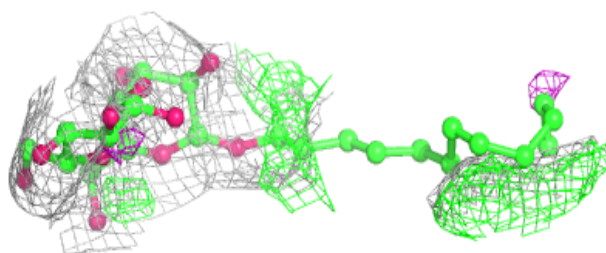
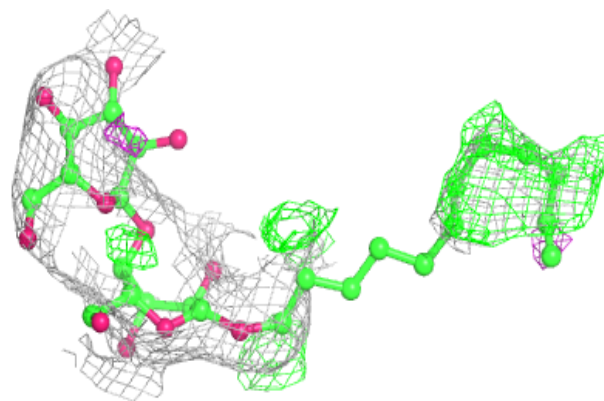
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
2	LMT	B	2033	35/35	0.72	0.42	100,155,176,183	0
2	LMT	E	2033	35/35	0.76	0.33	111,146,174,179	0
2	LMT	E	2031	35/35	0.85	0.23	72,95,121,130	0
2	LMT	B	2031	35/35	0.90	0.20	59,82,109,114	0
2	LMT	A	2026	35/35	0.90	0.21	80,110,145,173	0
2	LMT	D	2026	35/35	0.91	0.16	75,113,140,142	0
2	LMT	E	2032	35/35	0.93	0.23	66,90,115,128	0
2	LMT	B	2032	35/35	0.93	0.25	52,70,157,169	0

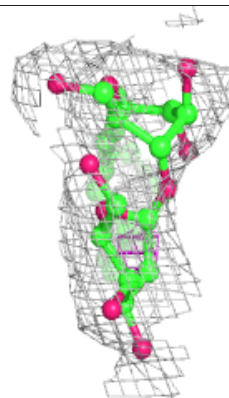
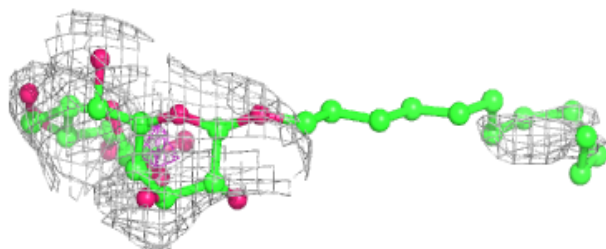
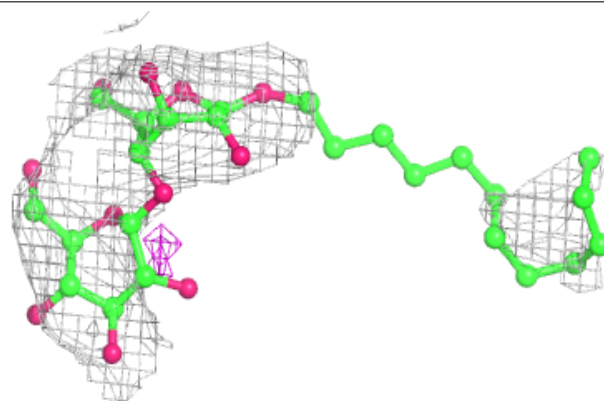
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.

Electron density around LMT B 2033:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

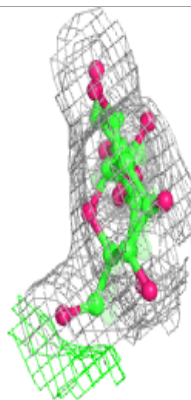
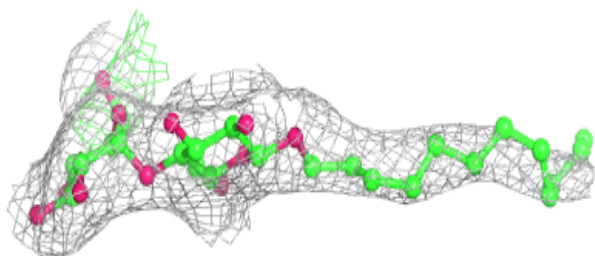
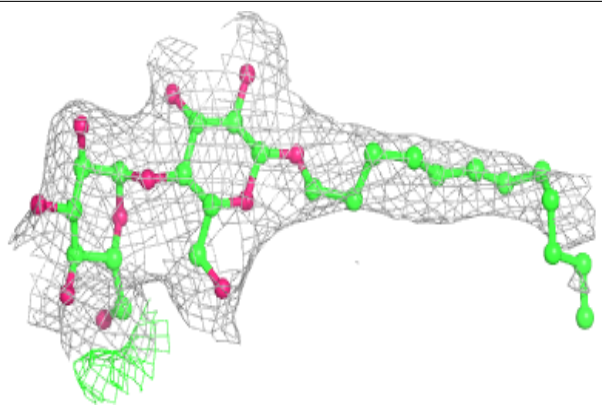
**Electron density around LMT E 2033:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

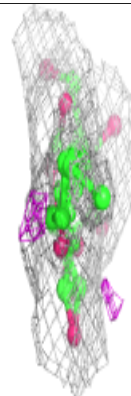
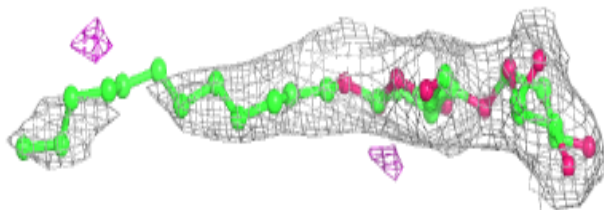
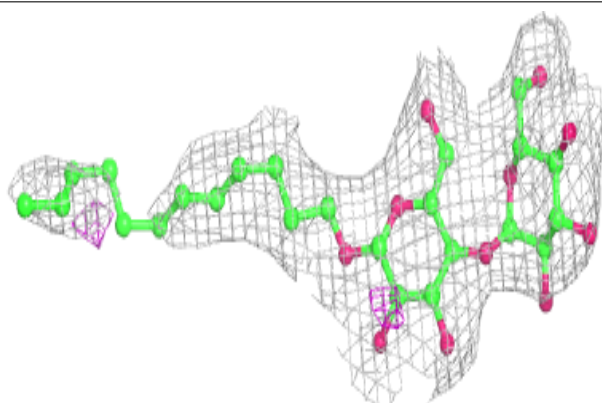


Electron density around LMT E 2031:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

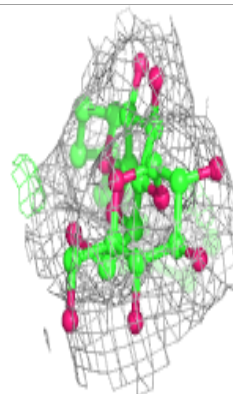
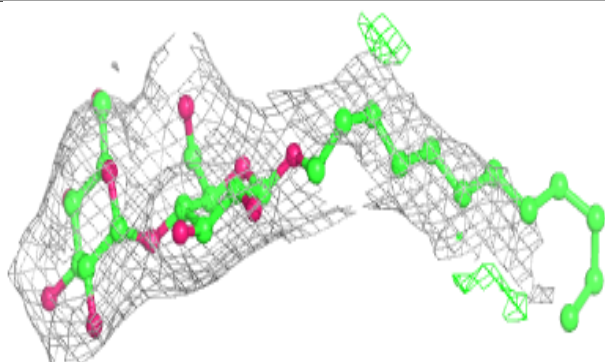
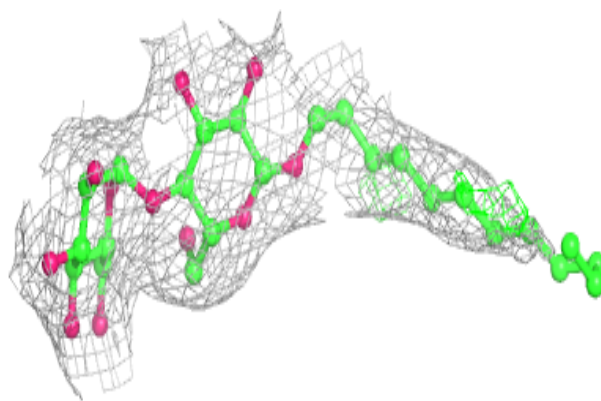
**Electron density around LMT B 2031:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

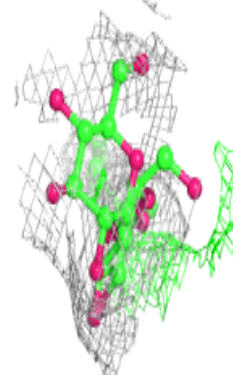
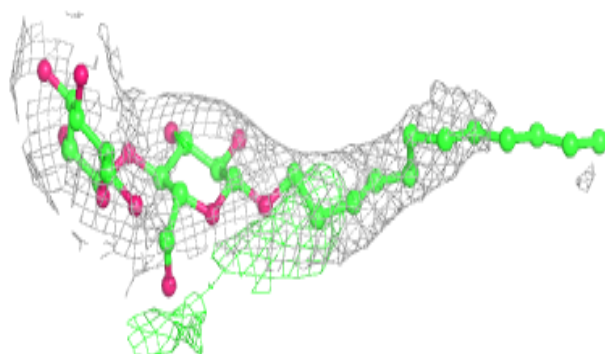
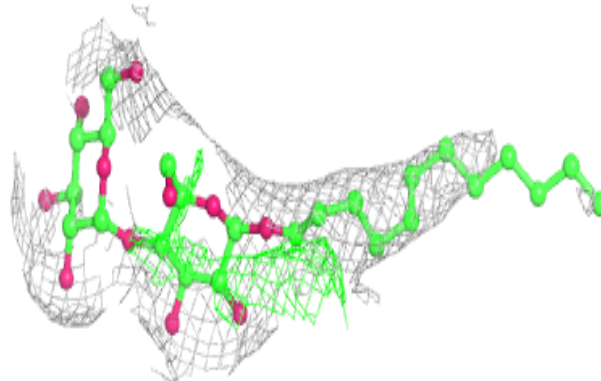


Electron density around LMT A 2026:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

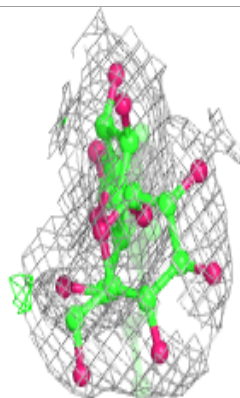
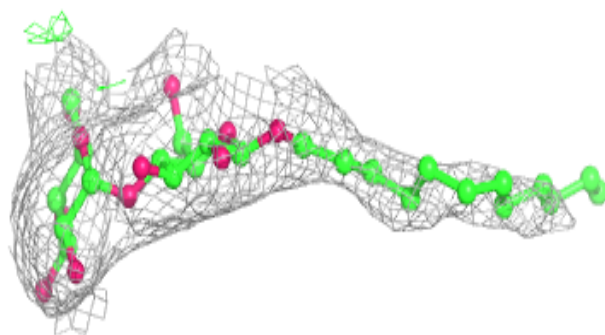
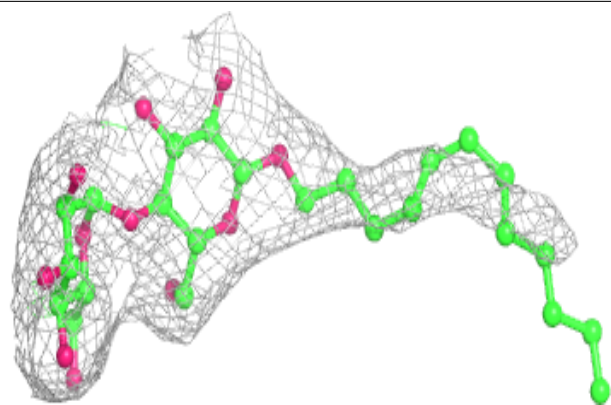
**Electron density around LMT D 2026:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

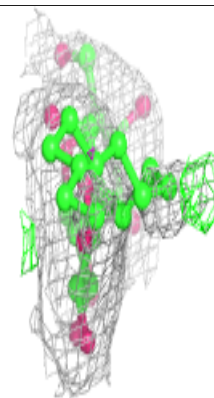
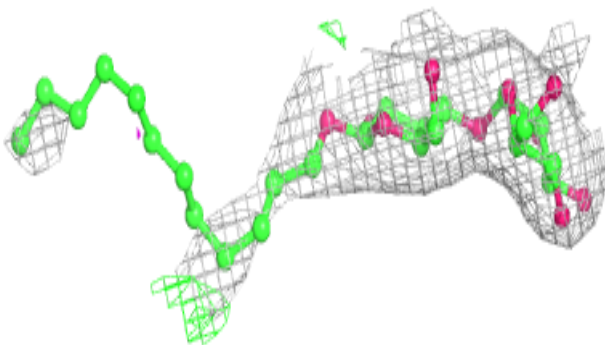
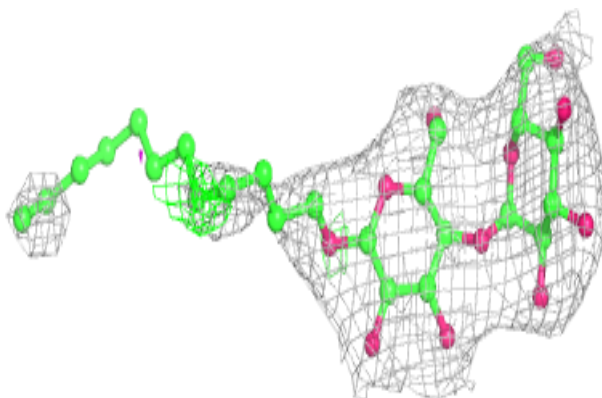


Electron density around LMT E 2032:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

**Electron density around LMT B 2032:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



6.5 Other polymers [i](#)

There are no such residues in this entry.