Full wwPDB X-ray Structure Validation Report ⓘ

Jun 12, 2024 – 11:35 PM EDT

PDB ID	:	3G61
Title	:	Structure of P-glycoprotein Reveals a Molecular Basis for Poly-Specific Drug Binding
Authors	:	Aller, S.G.; Yu, J.; Ward, A.; Weng, Y.; Chittaboina, S.; Zhuo, R.; Harrell, P.M.; Trinh, Y.T.; Zhang, Q.; Urbatsch, I.L.; Chang, G.
Deposited on	:	2009-02-05
Resolution	:	4.35 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:

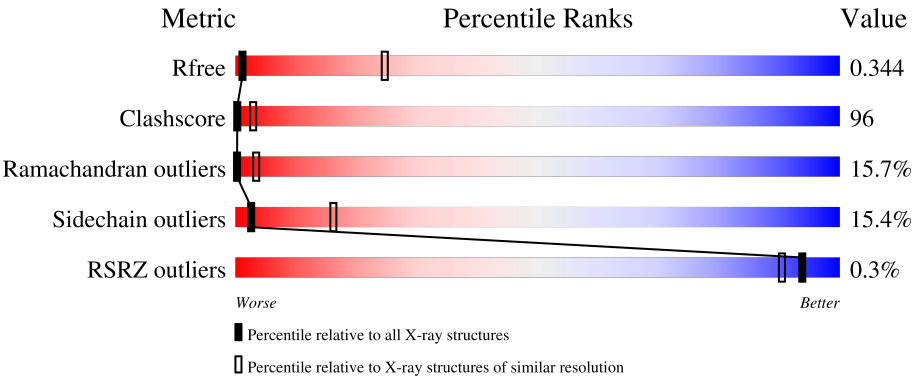
MolProbity	:	4.02b-467
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	1.20.1
EDS	:	2.36.2
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.36.2

1 Overall quality at a glance (i)

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

The reported resolution of this entry is 4.35 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	1018 (4.84-3.80)
Clashscore	141614	1081 (4.84-3.80)
Ramachandran outliers	138981	1033 (4.84-3.80)
Sidechain outliers	138945	1016 (4.84-3.80)
RSRZ outliers	127900	1078 (4.92-3.70)

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 <=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	1284	13% 57% 19% • 8%
1	B	1284	12% 59% 19% • 8%

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	2J8	A	6002	-	-	-	X
2	2J8	B	6003	-	-	-	X
2	2J8	B	6004	-	-	-	X

2 Entry composition (i)

There are 2 unique types of molecules in this entry. The entry contains 18448 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.

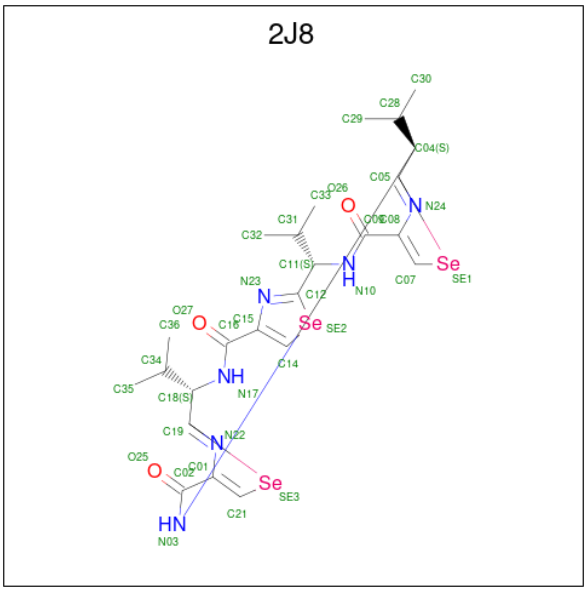
- Molecule 1 is a protein called Multidrug resistance protein 1a.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	1182	Total	C	N	O	S	0	0	0
			9171	5895	1552	1686	38			
1	B	1182	Total	C	N	O	S	0	0	0
			9171	5895	1552	1686	38			

There are 16 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	1277	TYR	-	expression tag	UNP Q5I1Y5
A	1278	VAL	-	expression tag	UNP Q5I1Y5
A	1279	HIS	-	expression tag	UNP Q5I1Y5
A	1280	HIS	-	expression tag	UNP Q5I1Y5
A	1281	HIS	-	expression tag	UNP Q5I1Y5
A	1282	HIS	-	expression tag	UNP Q5I1Y5
A	1283	HIS	-	expression tag	UNP Q5I1Y5
A	1284	HIS	-	expression tag	UNP Q5I1Y5
B	1277	TYR	-	expression tag	UNP Q5I1Y5
B	1278	VAL	-	expression tag	UNP Q5I1Y5
B	1279	HIS	-	expression tag	UNP Q5I1Y5
B	1280	HIS	-	expression tag	UNP Q5I1Y5
B	1281	HIS	-	expression tag	UNP Q5I1Y5
B	1282	HIS	-	expression tag	UNP Q5I1Y5
B	1283	HIS	-	expression tag	UNP Q5I1Y5
B	1284	HIS	-	expression tag	UNP Q5I1Y5

- Molecule 2 is (4S,11S,18S)-4,11,18-tri(propan-2-yl)-6,13,20-triselena-3,10,17,22,23,24-hexaazatetracyclo[17.2.1.1 5,8 .1 12,15]tetracosa-1(21),5(24),7,12(23),14,19(22)-hexaene-2,9,16-trione (three-letter code: 2J8) (formula: $C_{24}H_{30}N_6O_3Se_3$).



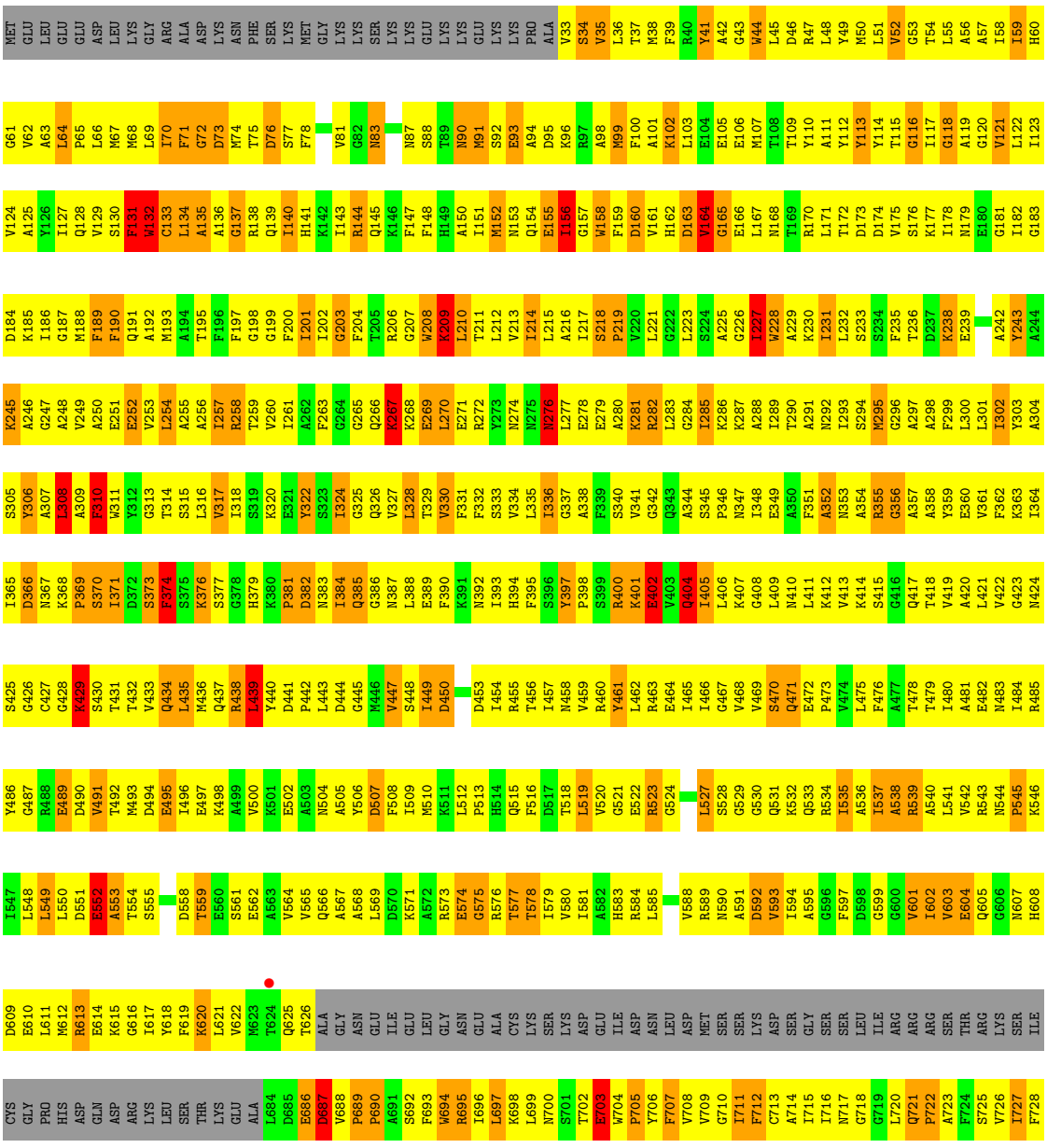
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
2	A	1	Total	C	N	O	Se	0	0
			36	24	6	3	3		
2	A	1	Total	C	N	O	Se	0	0
			17	11	3	1	2		
2	B	1	Total	C	N	O	Se	0	0
			36	24	6	3	3		
2	B	1	Total	C	N	O	Se	0	0
			17	11	3	1	2		

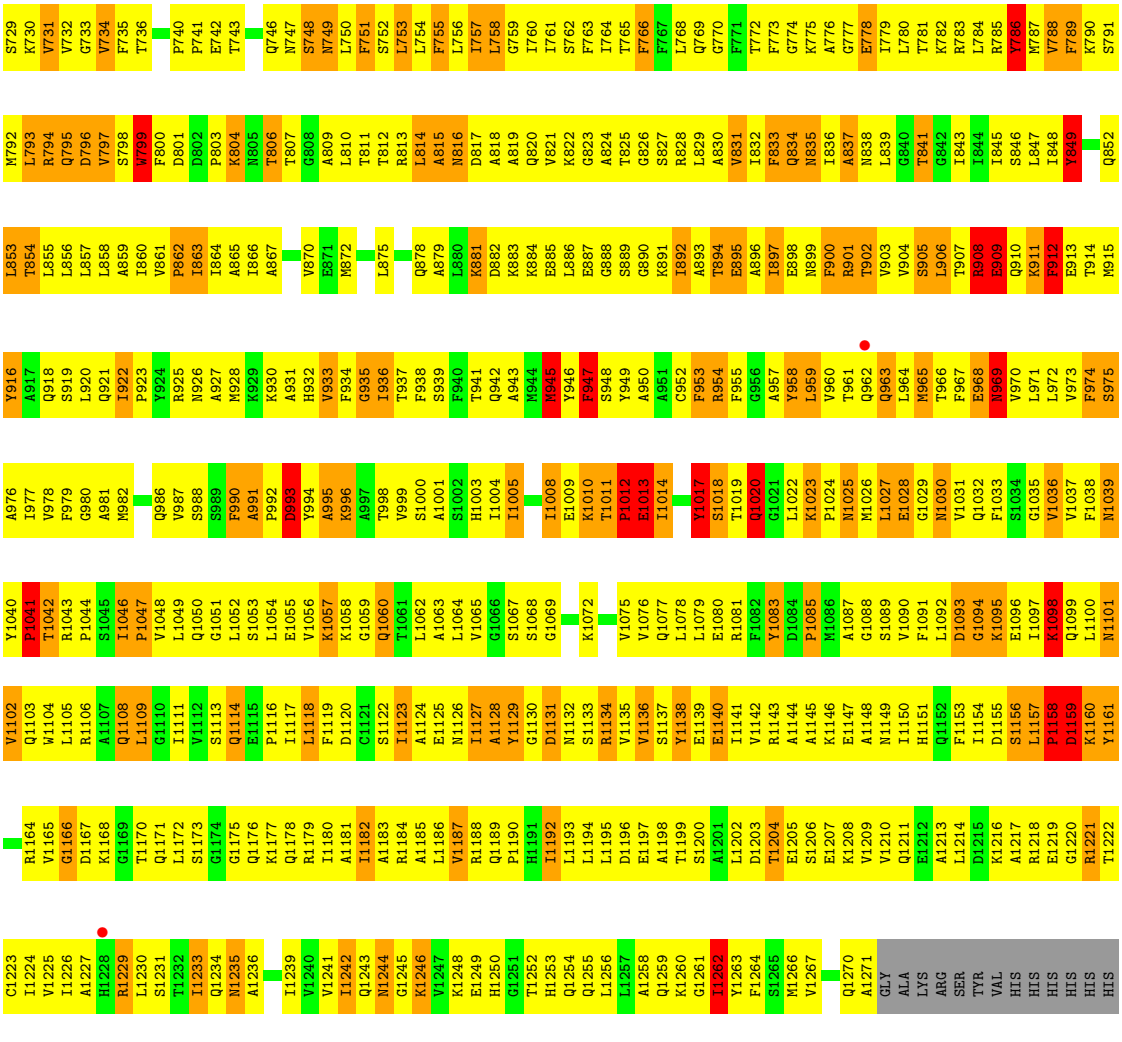
3 Residue-property plots (i)

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 1a

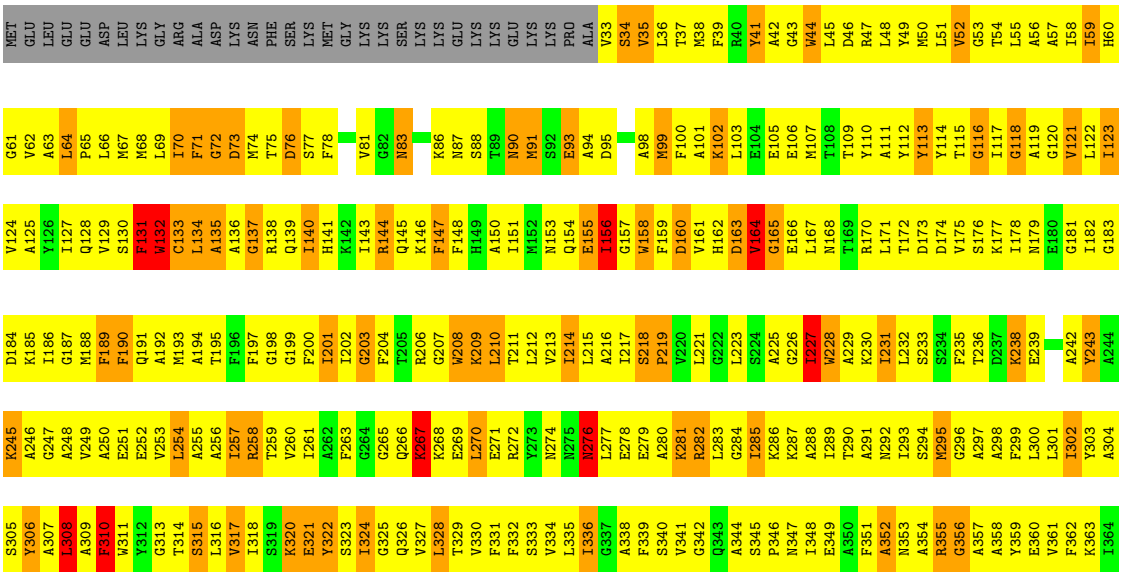
Chain A:

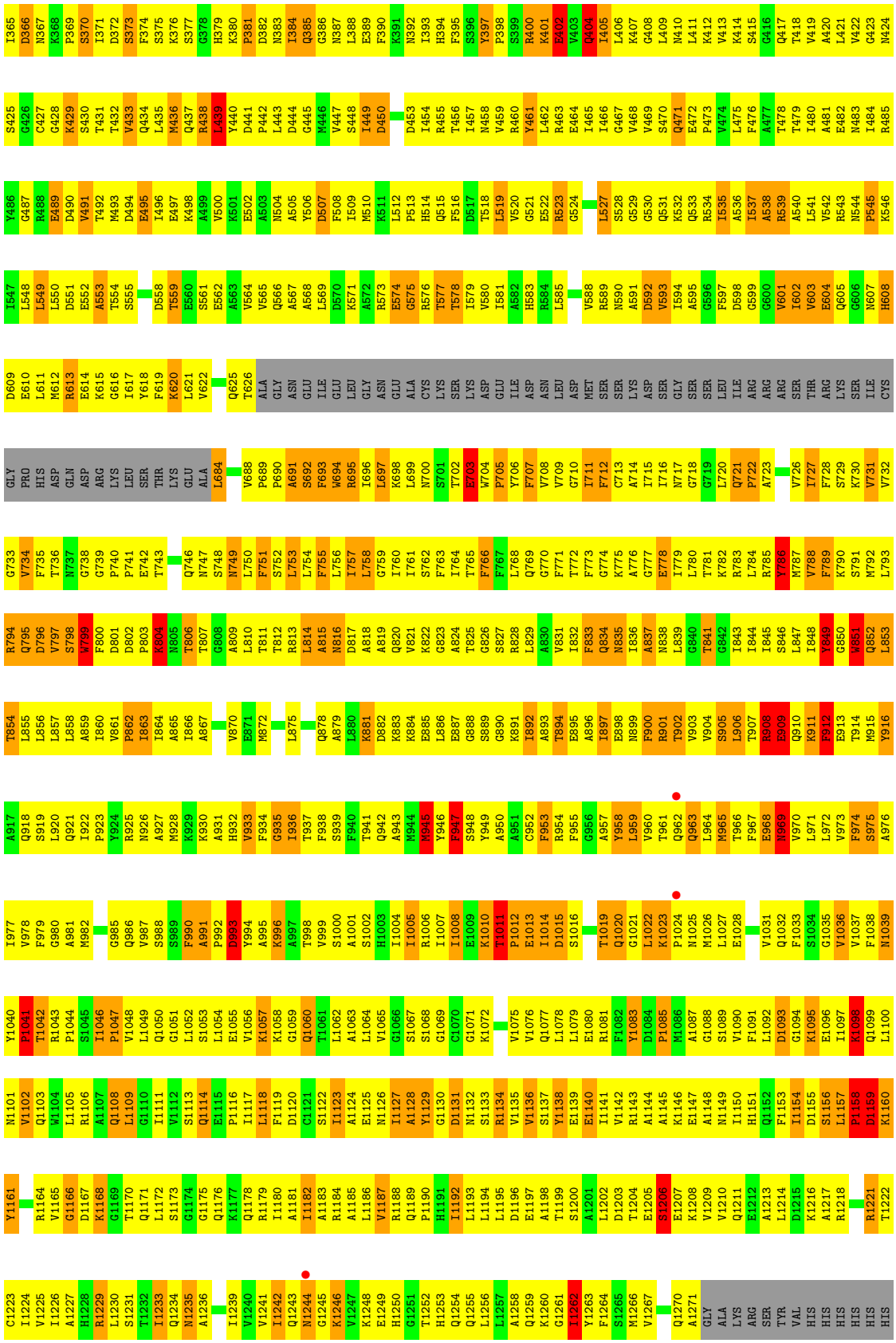




• Molecule 1: Multidrug resistance protein 1a

Chain B:





4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α, β, γ	97.74Å 114.98Å 375.81Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	19.95 – 4.35 19.95 – 4.35	Depositor EDS
% Data completeness (in resolution range)	93.3 (19.95-4.35) 93.2 (19.95-4.35)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	4.03 (at 4.36Å)	Xtriage
Refinement program	CNS	Depositor
R, R_{free}	0.308 , 0.356 0.298 , 0.344	Depositor DCC
R_{free} test set	2807 reflections (9.92%)	wwPDB-VP
Wilson B-factor (Å^2)	195.7	Xtriage
Anisotropy	0.362	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.16 , 39.2	EDS
L-test for twinning[2]	$< \|L\| > = 0.47$, $< L^2 > = 0.30$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o,F_c correlation	0.91	EDS
Total number of atoms	18448	wwPDB-VP
Average B, all atoms (Å^2)	182.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.34% of the height of the origin peak. No significant pseudotranslation is detected.*

[1] Intensities estimated from amplitudes.

[2] Theoretical values of $< |L| >$, $< L^2 >$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

5 Model quality (i)

5.1 Standard geometry (i)

Bond lengths and bond angles in the following residue types are not validated in this section: 2J8

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	0.40	0/9339	0.72	12/12626 (0.1%)
1	B	0.39	0/9339	0.71	14/12626 (0.1%)
All	All	0.40	0/18678	0.72	26/25252 (0.1%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	1
1	B	0	1
All	All	0	2

There are no bond length outliers.

All (26) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	370	SER	N-CA-C	10.10	138.27	111.00
1	B	1159	ASP	N-CA-C	-8.41	88.29	111.00
1	A	374	PHE	N-CA-C	8.32	133.47	111.00
1	A	450	ASP	N-CA-C	-8.05	89.26	111.00
1	A	1098	LYS	N-CA-C	-7.76	90.04	111.00
1	A	1159	ASP	N-CA-C	-7.42	90.98	111.00
1	B	165	GLY	N-CA-C	-6.93	95.76	113.10
1	A	267	LYS	N-CA-C	6.71	129.13	111.00
1	A	165	GLY	N-CA-C	-6.52	96.79	113.10
1	B	1098	LYS	N-CA-C	-6.25	94.14	111.00
1	A	1017	TYR	N-CA-C	6.13	127.55	111.00
1	A	575	GLY	N-CA-C	-6.05	97.97	113.10

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	64	LEU	C-N-CD	6.02	141.04	128.40
1	B	267	LYS	N-CA-C	5.97	127.12	111.00
1	A	64	LEU	C-N-CD	5.96	140.92	128.40
1	A	164	VAL	N-CA-C	5.91	126.95	111.00
1	B	1206	SER	CB-CA-C	5.85	121.21	110.10
1	B	450	ASP	N-CA-C	-5.72	95.56	111.00
1	A	552	GLU	CB-CA-C	-5.70	98.99	110.40
1	A	164	VAL	CB-CA-C	-5.59	100.77	111.40
1	B	575	GLY	N-CA-C	-5.56	99.21	113.10
1	B	370	SER	CB-CA-C	-5.40	99.84	110.10
1	B	852	GLN	N-CA-C	-5.35	96.55	111.00
1	B	851	TRP	CB-CA-C	-5.17	100.06	110.40
1	B	164	VAL	N-CA-C	5.07	124.68	111.00
1	B	804	LYS	N-CA-C	-5.03	97.43	111.00

There are no chirality outliers.

All (2) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	916	TYR	Sidechain
1	B	916	TYR	Sidechain

5.2 Too-close contacts (i)

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	9171	0	9344	1807	0
1	B	9171	0	9344	1791	0
2	A	53	0	36	5	0
2	B	53	0	36	20	0
All	All	18448	0	18760	3588	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 96.

All (3588) 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:B:718:GLY:O	1:B:722:PRO:HD2	1.44	1.17
1:A:718:GLY:O	1:A:722:PRO:HD2	1.43	1.15
1:B:858:LEU:O	1:B:862:PRO:HD2	1.47	1.15
1:A:195:THR:HB	1:A:340:SER:HB2	1.27	1.14
1:B:35:VAL:HG23	1:B:36:LEU:H	1.13	1.11
1:A:858:LEU:O	1:A:862:PRO:HD2	1.50	1.09
1:B:195:THR:HB	1:B:340:SER:HB2	1.30	1.09
1:A:35:VAL:HG23	1:A:36:LEU:H	1.14	1.08
1:B:1011:THR:H	1:B:1012:PRO:HD2	1.16	1.07
1:B:711:ILE:HD11	1:B:832:ILE:HG21	1.37	1.06
1:B:691:ALA:HA	1:B:1002:SER:OG	1.55	1.06
1:A:523:ARG:HD3	1:A:524:GLY:H	1.20	1.05
1:A:711:ILE:HD11	1:A:832:ILE:HG21	1.39	1.05
1:A:61:GLY:O	1:A:65:PRO:HD2	1.56	1.04
1:B:61:GLY:O	1:B:65:PRO:HD2	1.56	1.04
1:B:851:TRP:HA	1:B:854:THR:HB	1.38	1.04
1:A:387:ASN:HD22	1:A:414:LYS:HA	1.21	1.04
1:B:1063:ALA:HB3	1:B:1239:ILE:HA	1.37	1.04
1:A:826:GLY:HA2	1:A:829:LEU:HD12	1.39	1.03
1:B:387:ASN:HD22	1:B:414:LYS:HA	1.23	1.03
1:B:523:ARG:HD3	1:B:524:GLY:H	1.19	1.03
1:A:253:VAL:HB	1:A:1119:PHE:HE1	1.17	1.03
1:A:853:LEU:HD22	1:A:853:LEU:H	1.20	1.03
1:B:1039:ASN:HB2	1:B:1047:PRO:HA	1.39	1.03
1:B:766:PHE:HA	1:B:769:GLN:HE21	1.24	1.02
1:A:1039:ASN:HB2	1:A:1047:PRO:HA	1.38	1.01
1:A:1018:SER:O	1:A:1101:ASN:HB2	1.59	1.01
1:B:959:LEU:HD22	1:B:964:LEU:HB2	1.41	1.01
1:A:1144:ALA:HA	1:A:1186:LEU:HD11	1.43	1.01
1:A:1063:ALA:HB3	1:A:1239:ILE:HA	1.39	1.00
1:B:1090:VAL:HG13	1:B:1097:ILE:HB	1.40	1.00
1:A:384:ILE:HG22	1:A:385:GLN:H	1.24	1.00
1:B:826:GLY:HA2	1:B:829:LEU:HD12	1.40	0.99
1:A:766:PHE:HA	1:A:769:GLN:HE21	1.25	0.99
1:A:1090:VAL:HG13	1:A:1097:ILE:HB	1.40	0.99
1:A:158:TRP:HE1	1:A:900:PHE:CB	1.75	0.99
1:B:897:ILE:HG13	1:B:898:GLU:H	1.26	0.99
1:B:1144:ALA:HA	1:B:1186:LEU:HD11	1.42	0.98
1:B:1036:VAL:HB	1:B:1052:LEU:HB3	1.45	0.98
1:A:1218:ARG:HH22	1:A:1235:ASN:HD22	1.10	0.98
1:A:429:LYS:HD3	1:A:429:LYS:H	1.27	0.97
1:A:1022:LEU:HG	1:A:1104:TRP:NE1	1.80	0.97

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1218:ARG:HH22	1:B:1235:ASN:HD22	1.10	0.96
1:A:373:SER:O	1:A:374:PHE:HB2	1.62	0.96
1:A:1036:VAL:HB	1:A:1052:LEU:HB3	1.44	0.95
1:A:394:HIS:HA	1:A:406:LEU:O	1.66	0.95
1:B:339:PHE:CE2	2:B:6003:2J8:SE3	2.69	0.95
1:B:978:VAL:HG21	2:B:6003:2J8:H30	1.46	0.95
1:A:996:LYS:H	1:A:996:LYS:HD3	1.30	0.95
1:B:1011:THR:H	1:B:1012:PRO:CD	1.79	0.95
1:B:339:PHE:CZ	2:B:6003:2J8:SE3	2.69	0.94
1:A:897:ILE:HG13	1:A:898:GLU:H	1.29	0.94
1:B:523:ARG:CD	1:B:524:GLY:H	1.79	0.94
1:B:919:SER:O	1:B:923:PRO:HD2	1.67	0.94
1:A:616:GLY:O	1:A:620:LYS:HB2	1.66	0.94
1:B:996:LYS:H	1:B:996:LYS:HD3	1.30	0.94
1:A:1013:GLU:O	1:A:1014:ILE:HG23	1.68	0.93
1:B:394:HIS:HA	1:B:406:LEU:O	1.69	0.93
1:A:798:SER:OG	1:A:1041:PRO:HG2	1.69	0.93
1:A:158:TRP:HE1	1:A:900:PHE:HB3	1.31	0.92
1:B:318:ILE:HD11	1:B:325:GLY:N	1.83	0.92
1:A:797:VAL:HG21	1:A:1013:GLU:HG3	1.49	0.92
1:A:800:PHE:O	1:A:803:PRO:HD3	1.70	0.92
1:B:797:VAL:HG12	1:B:798:SER:H	1.35	0.92
1:B:795:GLN:HA	1:B:1012:PRO:HG3	1.52	0.92
1:B:1216:LYS:HA	1:B:1216:LYS:HE2	1.52	0.92
1:A:686:GLU:HG2	1:A:813:ARG:HH22	1.33	0.92
1:B:118:GLY:O	1:B:121:VAL:HG22	1.70	0.92
1:B:616:GLY:O	1:B:620:LYS:HB2	1.68	0.92
1:A:919:SER:O	1:A:923:PRO:HD2	1.70	0.91
1:A:964:LEU:HD13	1:A:965:MET:N	1.84	0.91
1:B:484:ILE:HG21	1:B:496:ILE:HD12	1.51	0.91
1:A:118:GLY:O	1:A:121:VAL:HG22	1.70	0.91
1:A:253:VAL:HB	1:A:1119:PHE:CE1	2.06	0.91
1:A:484:ILE:HG21	1:A:496:ILE:HD12	1.51	0.91
1:B:964:LEU:HD13	1:B:965:MET:N	1.85	0.91
1:B:690:PRO:HG2	1:B:1006:ARG:NH2	1.85	0.91
1:A:523:ARG:CD	1:A:524:GLY:H	1.83	0.91
1:B:202:ILE:HD12	1:B:203:GLY:N	1.86	0.91
1:B:318:ILE:HD13	1:B:327:VAL:HG13	1.54	0.90
1:B:892:ILE:HB	1:B:916:TYR:HE1	1.37	0.90
1:B:155:GLU:O	1:B:157:GLY:N	2.03	0.90
1:A:155:GLU:O	1:A:157:GLY:N	2.05	0.90

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1202:LEU:HD21	1:B:1206:SER:HB3	1.54	0.90
1:B:1091:PHE:HE1	1:B:1096:GLU:HG2	1.37	0.90
1:B:318:ILE:HD11	1:B:324:ILE:HG12	1.54	0.89
1:A:892:ILE:HB	1:A:916:TYR:HE1	1.37	0.89
1:B:202:ILE:HD12	1:B:203:GLY:H	1.36	0.89
1:A:278:GLU:O	1:A:282:ARG:HG2	1.71	0.89
1:B:816:ASN:O	1:B:820:GLN:HG2	1.71	0.89
1:A:270:LEU:HD23	1:A:270:LEU:H	1.36	0.89
1:A:816:ASN:O	1:A:820:GLN:HG2	1.72	0.88
1:A:72:GLY:HA2	1:A:326:GLN:NE2	1.88	0.88
1:B:270:LEU:HD23	1:B:270:LEU:H	1.35	0.88
1:B:278:GLU:O	1:B:282:ARG:HG2	1.73	0.88
1:A:292:ASN:HA	1:A:295:MET:HB2	1.55	0.88
1:A:267:LYS:N	1:A:270:LEU:HD21	1.89	0.88
1:B:207:GLY:HA3	1:B:211:THR:HB	1.54	0.88
1:B:384:ILE:HG22	1:B:385:GLN:H	1.36	0.88
1:B:889:SER:HA	1:B:892:ILE:HD11	1.56	0.88
1:A:318:ILE:HD11	1:A:325:GLY:H	1.39	0.87
1:B:386:GLY:HA3	1:B:450:ASP:HA	1.54	0.87
1:A:34:SER:O	1:A:38:MET:HB2	1.74	0.87
1:A:478:THR:HG22	1:A:479:THR:H	1.39	0.87
1:A:1216:LYS:HE2	1:A:1216:LYS:HA	1.54	0.87
1:A:122:LEU:HD12	1:A:939:SER:HB2	1.56	0.87
1:A:1179:ARG:HH21	1:A:1209:VAL:HG11	1.39	0.87
1:B:64:LEU:O	1:B:67:MET:HB3	1.74	0.87
1:B:72:GLY:HA2	1:B:326:GLN:NE2	1.90	0.87
1:B:209:LYS:O	1:B:212:LEU:HB3	1.72	0.87
1:A:67:MET:HE2	1:A:117:ILE:HG21	1.57	0.87
1:A:1261:GLY:H	1:A:1264:PHE:HB3	1.38	0.87
1:A:202:ILE:HD12	1:A:203:GLY:H	1.39	0.87
1:A:603:VAL:HG23	1:A:604:GLU:H	1.40	0.87
1:A:202:ILE:HD12	1:A:203:GLY:N	1.88	0.87
1:A:360:GLU:HA	1:A:363:LYS:HE2	1.56	0.87
1:B:267:LYS:N	1:B:270:LEU:HD21	1.89	0.87
1:A:1091:PHE:HE1	1:A:1096:GLU:HG2	1.37	0.86
1:B:34:SER:O	1:B:38:MET:HB2	1.74	0.86
1:B:379:HIS:O	1:B:381:PRO:HD3	1.75	0.86
1:B:1179:ARG:HH21	1:B:1209:VAL:HG11	1.39	0.86
1:B:1128:ALA:HB2	1:B:1141:ILE:HG21	1.57	0.86
1:B:1261:GLY:H	1:B:1264:PHE:HB3	1.38	0.86
1:B:603:VAL:HG23	1:B:604:GLU:H	1.39	0.86

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1020:GLN:HG2	1:B:1021:GLY:H	1.41	0.86
1:A:1202:LEU:HG	1:A:1203:ASP:H	1.41	0.86
1:B:964:LEU:HD13	1:B:965:MET:H	1.39	0.86
1:B:379:HIS:HB3	1:B:457:ILE:HA	1.58	0.86
1:A:1128:ALA:HB2	1:A:1141:ILE:HG21	1.58	0.86
1:B:67:MET:HE2	1:B:117:ILE:HG21	1.58	0.86
1:B:853:LEU:HD22	1:B:853:LEU:H	1.39	0.85
1:A:49:TYR:OH	1:A:130:SER:HB2	1.76	0.85
1:A:1202:LEU:HD21	1:A:1206:SER:HB3	1.59	0.85
1:A:697:LEU:O	1:A:700:ASN:HB3	1.76	0.85
1:B:49:TYR:OH	1:B:130:SER:HB2	1.76	0.85
1:A:64:LEU:O	1:A:67:MET:HB3	1.76	0.85
1:B:907:THR:C	1:B:908:ARG:HE	1.79	0.85
1:B:742:GLU:O	1:B:746:GLN:HG2	1.77	0.85
1:A:386:GLY:HA3	1:A:450:ASP:HA	1.59	0.84
1:A:889:SER:HA	1:A:892:ILE:HD11	1.58	0.84
1:B:210:LEU:HG	1:B:322:TYR:CD2	2.12	0.84
1:A:907:THR:C	1:A:908:ARG:HE	1.80	0.84
1:B:800:PHE:O	1:B:803:PRO:HD3	1.78	0.84
1:A:35:VAL:HG23	1:A:36:LEU:N	1.93	0.84
1:B:974:PHE:HB2	2:B:6004:2J8:SE2	2.26	0.84
1:B:292:ASN:HA	1:B:295:MET:HB2	1.58	0.84
1:A:791:SER:HA	1:A:1010:LYS:HE2	1.59	0.84
1:A:694:TRP:O	1:A:697:LEU:HG	1.77	0.84
1:B:478:THR:HG22	1:B:479:THR:H	1.41	0.84
1:B:360:GLU:HA	1:B:363:LYS:HE2	1.58	0.84
1:A:964:LEU:HD13	1:A:965:MET:H	1.37	0.83
1:B:986:GLN:HE22	2:B:6003:2J8:H31	1.41	0.83
1:B:697:LEU:O	1:B:700:ASN:HB3	1.78	0.83
1:A:136:ALA:HB2	1:A:182:ILE:HB	1.61	0.83
1:B:267:LYS:HB3	1:B:790:LYS:HE3	1.59	0.83
1:B:1197:GLU:HG2	1:B:1227:ALA:HA	1.60	0.83
1:B:35:VAL:HG23	1:B:36:LEU:N	1.92	0.83
1:B:164:VAL:HG12	1:B:164:VAL:O	1.76	0.83
1:B:324:ILE:HG13	1:B:326:GLN:HB3	1.61	0.83
1:B:811:THR:O	1:B:814:LEU:HB2	1.79	0.83
1:A:158:TRP:HA	1:A:162:HIS:HD2	1.42	0.83
1:A:689:PRO:HB2	1:A:690:PRO:HD3	1.61	0.83
1:B:374:PHE:HE1	1:B:376:LYS:HB2	1.43	0.83
1:B:552:GLU:O	1:B:554:THR:N	2.11	0.83
1:A:801:ASP:HB3	1:A:1083:TYR:OH	1.78	0.83

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1202:LEU:HG	1:B:1203:ASP:H	1.42	0.83
1:A:204:PHE:HA	1:A:211:THR:HG21	1.58	0.82
1:A:742:GLU:O	1:A:746:GLN:HG2	1.77	0.82
1:A:1120:ASP:HB3	1:A:1168:LYS:HA	1.61	0.82
1:A:969:ASN:HA	1:A:972:LEU:HD13	1.62	0.82
1:B:942:GLN:O	1:B:945:MET:HB3	1.80	0.82
1:A:1197:GLU:HG2	1:A:1227:ALA:HA	1.60	0.82
1:B:226:GLY:O	1:B:230:LYS:HG2	1.80	0.82
1:B:128:GLN:O	1:B:131:PHE:HB3	1.80	0.82
1:A:859:ALA:O	1:A:863:ILE:HG13	1.80	0.81
1:A:713:CYS:CB	1:A:768:LEU:HD11	2.11	0.81
1:A:812:THR:HG22	1:A:816:ASN:HD22	1.44	0.81
1:A:853:LEU:HG	1:A:973:VAL:HG22	1.62	0.81
1:B:136:ALA:HB2	1:B:182:ILE:HB	1.62	0.81
1:B:401:LYS:H	1:B:401:LYS:HD2	1.45	0.81
1:A:401:LYS:H	1:A:401:LYS:HD2	1.45	0.81
1:A:762:SER:HA	1:A:765:THR:HG22	1.60	0.81
1:A:226:GLY:O	1:A:230:LYS:HG2	1.80	0.81
1:B:286:LYS:HA	1:B:289:ILE:HB	1.62	0.81
1:A:39:PHE:CE2	1:A:355:ARG:HA	2.16	0.81
1:B:713:CYS:CB	1:B:768:LEU:HD11	2.10	0.81
1:B:766:PHE:O	1:B:769:GLN:HG2	1.80	0.81
1:A:185:LYS:HZ2	1:A:186:ILE:N	1.79	0.81
1:A:289:ILE:O	1:A:293:ILE:HG12	1.80	0.81
1:B:158:TRP:HA	1:B:162:HIS:HD2	1.45	0.81
1:B:324:ILE:HG13	1:B:326:GLN:CB	2.10	0.81
1:B:762:SER:HA	1:B:765:THR:HG22	1.61	0.81
1:A:183:GLY:O	1:A:186:ILE:HG13	1.81	0.81
1:A:942:GLN:O	1:A:945:MET:HB3	1.81	0.81
1:B:35:VAL:HG12	1:B:359:TYR:CE2	2.15	0.81
1:B:429:LYS:H	1:B:429:LYS:HD3	1.45	0.81
1:B:694:TRP:O	1:B:697:LEU:HG	1.80	0.81
1:A:212:LEU:HA	1:A:215:LEU:HG	1.63	0.80
1:B:982:MET:HG3	2:B:6003:2J8:H33	1.63	0.80
1:A:1181:ALA:O	1:A:1184:ARG:HB3	1.81	0.80
1:A:110:TYR:HA	1:A:113:TYR:HD2	1.46	0.80
1:A:363:LYS:O	1:A:367:ASN:HB3	1.81	0.80
1:B:183:GLY:O	1:B:186:ILE:HG13	1.80	0.80
1:B:1120:ASP:HB3	1:B:1168:LYS:HA	1.63	0.80
1:A:168:ASN:HB3	1:A:897:ILE:CD1	2.10	0.80
1:A:527:LEU:HD23	1:A:527:LEU:H	1.46	0.80

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:61:GLY:O	1:B:65:PRO:CD	2.29	0.80
1:B:318:ILE:HD11	1:B:325:GLY:H	1.45	0.80
1:B:363:LYS:O	1:B:367:ASN:HB3	1.82	0.80
1:A:286:LYS:HA	1:A:289:ILE:HB	1.62	0.80
1:B:39:PHE:CE2	1:B:355:ARG:HA	2.17	0.80
1:A:857:LEU:HD11	1:A:977:ILE:HG12	1.64	0.80
1:A:1092:LEU:HB3	1:A:1097:ILE:HD11	1.64	0.80
1:A:35:VAL:HG12	1:A:359:TYR:CE2	2.15	0.79
1:A:291:ALA:HA	1:A:294:SER:HB2	1.64	0.79
1:A:61:GLY:O	1:A:65:PRO:CD	2.30	0.79
1:A:766:PHE:O	1:A:769:GLN:HG2	1.82	0.79
1:A:958:TYR:O	1:A:966:THR:HG21	1.83	0.79
1:B:100:PHE:HB2	1:B:961:THR:HG23	1.64	0.79
1:B:257:ILE:O	1:B:260:VAL:HB	1.83	0.79
1:B:812:THR:HG22	1:B:816:ASN:HD22	1.44	0.79
1:B:889:SER:O	1:B:892:ILE:HG13	1.80	0.79
1:A:969:ASN:HD22	1:A:970:VAL:N	1.79	0.79
1:A:207:GLY:HA3	1:A:211:THR:H	1.48	0.79
1:A:834:GLN:HB3	1:A:986:GLN:HG2	1.65	0.79
1:B:820:GLN:HG3	1:B:1000:SER:CB	2.12	0.79
1:A:140:ILE:HG13	1:A:179:ASN:HD22	1.46	0.79
1:A:257:ILE:O	1:A:260:VAL:HB	1.83	0.79
1:B:969:ASN:HA	1:B:972:LEU:HD13	1.63	0.79
1:B:339:PHE:CE1	2:B:6003:2J8:SE3	2.86	0.79
1:B:1181:ALA:O	1:B:1184:ARG:HB3	1.83	0.79
1:A:512:LEU:HD12	1:A:513:PRO:HD2	1.65	0.79
1:A:756:LEU:HD12	1:A:757:ILE:N	1.98	0.79
1:B:110:TYR:HA	1:B:113:TYR:HD2	1.47	0.79
1:B:289:ILE:O	1:B:293:ILE:HG12	1.81	0.79
1:B:339:PHE:CD2	2:B:6003:2J8:SE3	2.86	0.79
1:B:1092:LEU:HB3	1:B:1097:ILE:HD11	1.64	0.79
1:B:102:LYS:HA	1:B:102:LYS:HE3	1.65	0.78
1:B:727:ILE:HG21	1:B:754:LEU:HG	1.64	0.78
1:A:852:GLN:HB2	1:A:853:LEU:HD22	1.65	0.78
1:A:1154:ILE:HD13	1:A:1161:TYR:CE2	2.19	0.78
1:B:834:GLN:HB3	1:B:986:GLN:HG2	1.66	0.78
1:A:727:ILE:HG21	1:A:754:LEU:HG	1.63	0.78
1:A:770:GLY:HA2	1:A:773:PHE:CZ	2.19	0.78
1:A:811:THR:O	1:A:814:LEU:HB2	1.84	0.78
1:A:992:PRO:HB2	1:A:996:LYS:NZ	1.98	0.78
1:A:278:GLU:C	1:A:282:ARG:HG2	2.03	0.78

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:102:LYS:HA	1:A:102:LYS:HE3	1.65	0.78
1:A:574:GLU:HG3	1:A:574:GLU:O	1.84	0.78
1:A:797:VAL:HG12	1:A:798:SER:H	1.48	0.78
1:B:239:GLU:HG3	1:B:288:ALA:CB	2.13	0.78
1:B:278:GLU:C	1:B:282:ARG:HG2	2.03	0.78
1:A:467:GLY:HA3	1:A:545:PRO:HG3	1.64	0.78
1:B:314:THR:HG23	1:B:327:VAL:HG21	1.66	0.78
1:B:467:GLY:HA3	1:B:545:PRO:HG3	1.66	0.78
1:B:756:LEU:HD12	1:B:757:ILE:N	1.99	0.78
1:A:47:ARG:O	1:A:50:MET:HB3	1.83	0.78
1:A:1145:ALA:CB	1:A:1154:ILE:HD12	2.14	0.78
1:B:263:PHE:HE1	1:B:1129:TYR:HB3	1.49	0.78
1:B:375:SER:C	1:B:376:LYS:HD2	2.04	0.78
1:B:770:GLY:HA2	1:B:773:PHE:CZ	2.19	0.78
1:B:117:ILE:O	1:B:121:VAL:HG13	1.83	0.78
1:B:969:ASN:HD22	1:B:970:VAL:N	1.80	0.78
1:B:992:PRO:HB2	1:B:996:LYS:NZ	1.98	0.78
1:A:128:GLN:O	1:A:131:PHE:HB3	1.84	0.78
1:A:239:GLU:HG3	1:A:288:ALA:CB	2.14	0.78
1:A:892:ILE:HB	1:A:916:TYR:CE1	2.19	0.78
1:B:1183:ALA:O	1:B:1187:VAL:HB	1.84	0.78
1:B:140:ILE:HG13	1:B:179:ASN:HD22	1.46	0.77
1:B:512:LEU:HD12	1:B:513:PRO:HD2	1.65	0.77
1:B:1010:LYS:H	1:B:1010:LYS:HD2	1.49	0.77
1:B:892:ILE:HB	1:B:916:TYR:CE1	2.18	0.77
1:A:889:SER:O	1:A:892:ILE:HG13	1.83	0.77
1:B:210:LEU:HD23	1:B:317:VAL:HG11	1.65	0.77
1:B:527:LEU:HD23	1:B:527:LEU:H	1.47	0.77
1:A:303:TYR:O	1:A:306:TYR:HB3	1.84	0.77
1:B:291:ALA:HA	1:B:294:SER:HB2	1.65	0.77
1:B:303:TYR:O	1:B:306:TYR:HB3	1.84	0.77
1:A:692:SER:OG	1:A:696:ILE:HG23	1.84	0.77
1:B:449:ILE:HD13	1:B:450:ASP:N	1.99	0.77
1:B:523:ARG:HD3	1:B:524:GLY:N	1.99	0.77
1:B:1120:ASP:HA	1:B:1165:VAL:CG2	2.15	0.77
1:B:1158:PRO:O	1:B:1159:ASP:HB2	1.85	0.77
1:A:573:ARG:HD2	1:A:578:THR:HG21	1.67	0.77
1:A:1120:ASP:HA	1:A:1165:VAL:CG2	2.14	0.77
1:B:185:LYS:HZ2	1:B:186:ILE:N	1.80	0.77
1:B:574:GLU:O	1:B:574:GLU:HG3	1.85	0.77
1:A:210:LEU:HD23	1:A:317:VAL:HG11	1.65	0.77

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1159:ASP:O	1:A:1160:LYS:HG3	1.84	0.77
1:A:385:GLN:HE21	1:A:386:GLY:H	1.33	0.77
1:B:693:PHE:H	1:B:693:PHE:HD2	1.31	0.77
1:B:1023:LYS:HB3	1:B:1026:MET:HG2	1.65	0.77
1:B:1120:ASP:HA	1:B:1165:VAL:HG21	1.67	0.77
1:A:164:VAL:O	1:A:164:VAL:HG12	1.84	0.76
1:A:1120:ASP:HA	1:A:1165:VAL:HG21	1.67	0.76
1:B:713:CYS:HB3	1:B:768:LEU:HD11	1.67	0.76
1:A:117:ILE:O	1:A:121:VAL:HG13	1.85	0.76
1:B:321:GLU:O	1:B:323:SER:N	2.17	0.76
1:B:1167:ASP:O	1:B:1168:LYS:HB2	1.85	0.76
1:A:361:VAL:O	1:A:365:ILE:HD12	1.85	0.76
1:A:820:GLN:HG3	1:A:1000:SER:CB	2.14	0.76
1:A:238:LYS:NZ	1:A:242:ALA:HB2	2.00	0.76
1:A:806:THR:O	1:A:810:LEU:HG	1.86	0.76
1:B:212:LEU:HA	1:B:215:LEU:HG	1.65	0.76
1:A:178:ILE:HG12	1:A:358:ALA:CB	2.14	0.76
1:A:1183:ALA:O	1:A:1187:VAL:HB	1.86	0.76
1:A:713:CYS:HB3	1:A:768:LEU:HD11	1.68	0.76
1:B:306:TYR:O	1:B:310:PHE:HB2	1.86	0.76
1:B:1010:LYS:O	1:B:1011:THR:HG23	1.85	0.76
1:B:178:ILE:HG12	1:B:358:ALA:CB	2.15	0.76
1:B:731:VAL:HG22	1:B:750:LEU:HB3	1.68	0.76
1:A:1039:ASN:CB	1:A:1047:PRO:HA	2.16	0.75
1:B:385:GLN:HE21	1:B:386:GLY:H	1.34	0.75
1:A:207:GLY:HA3	1:A:211:THR:HB	1.67	0.75
1:A:50:MET:HG3	1:A:131:PHE:CZ	2.22	0.75
1:A:306:TYR:O	1:A:310:PHE:HB2	1.85	0.75
1:B:238:LYS:NZ	1:B:242:ALA:HB2	2.01	0.75
1:B:362:PHE:HA	1:B:365:ILE:HD12	1.68	0.75
1:A:158:TRP:NE1	1:A:900:PHE:CB	2.50	0.75
1:A:552:GLU:O	1:A:554:THR:N	2.20	0.75
1:A:1179:ARG:NH2	1:A:1209:VAL:HG11	2.01	0.75
1:B:272:ARG:O	1:B:276:ASN:HB2	1.87	0.75
1:B:302:ILE:O	1:B:305:SER:HB3	1.85	0.75
1:B:859:ALA:O	1:B:863:ILE:HG13	1.85	0.75
1:A:324:ILE:HG13	1:A:326:GLN:CB	2.16	0.75
1:A:731:VAL:HG22	1:A:750:LEU:HB3	1.67	0.75
1:B:384:ILE:HG22	1:B:385:GLN:N	2.01	0.75
1:A:467:GLY:CA	1:A:545:PRO:HG3	2.16	0.75
1:A:780:LEU:O	1:A:784:LEU:HD23	1.87	0.75

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:573:ARG:HD2	1:B:578:THR:HG21	1.67	0.75
1:B:849:TYR:HB3	1:B:854:THR:OG1	1.87	0.75
1:B:970:VAL:O	1:B:973:VAL:HB	1.87	0.75
1:A:484:ILE:HG23	1:A:542:VAL:HG21	1.68	0.74
1:A:531:GLN:O	1:A:534:ARG:HB2	1.87	0.74
1:A:945:MET:SD	1:A:946:TYR:N	2.60	0.74
1:A:519:LEU:H	1:A:519:LEU:HD13	1.52	0.74
1:B:118:GLY:HA3	1:B:946:TYR:CE2	2.22	0.74
1:B:902:THR:C	1:B:904:VAL:N	2.39	0.74
1:B:1020:GLN:HG2	1:B:1021:GLY:N	2.00	0.74
1:A:387:ASN:ND2	1:A:414:LYS:HA	2.01	0.74
1:A:927:ALA:HA	1:A:930:LYS:HE3	1.69	0.74
1:B:47:ARG:O	1:B:50:MET:HB3	1.86	0.74
1:A:156:ILE:N	1:A:156:ILE:HD12	2.02	0.74
1:B:531:GLN:O	1:B:534:ARG:HB2	1.87	0.74
1:B:945:MET:SD	1:B:946:TYR:N	2.60	0.74
1:A:589:ARG:O	1:A:591:ALA:N	2.17	0.74
1:A:695:ARG:O	1:A:699:LEU:HD23	1.87	0.74
1:A:718:GLY:O	1:A:722:PRO:CD	2.31	0.74
1:A:155:GLU:HB3	1:A:156:ILE:HD12	1.68	0.74
1:A:1167:ASP:O	1:A:1168:LYS:HB2	1.86	0.74
1:B:704:TRP:CZ2	1:B:707:PHE:HB2	2.22	0.74
1:B:239:GLU:HB3	1:B:285:ILE:HG12	1.69	0.74
1:B:991:ALA:HB1	1:B:992:PRO:HD2	1.70	0.74
1:B:1122:SER:HA	1:B:1164:ARG:HA	1.69	0.74
1:A:307:ALA:CB	1:A:754:LEU:HD22	2.17	0.74
1:A:1081:ARG:NH2	1:A:1098:LYS:O	2.20	0.74
1:A:195:THR:CB	1:A:340:SER:HB2	2.15	0.74
1:A:791:SER:N	1:A:794:ARG:HH21	1.86	0.74
1:A:902:THR:C	1:A:904:VAL:N	2.38	0.74
1:B:484:ILE:HG23	1:B:542:VAL:HG21	1.68	0.74
1:A:302:ILE:O	1:A:305:SER:HB3	1.88	0.73
1:A:523:ARG:HD3	1:A:524:GLY:N	2.00	0.73
1:B:780:LEU:O	1:B:784:LEU:HD23	1.88	0.73
1:A:588:VAL:O	1:A:591:ALA:HB2	1.88	0.73
1:B:155:GLU:HB3	1:B:156:ILE:HD12	1.71	0.73
1:B:387:ASN:ND2	1:B:414:LYS:HA	2.03	0.73
1:B:50:MET:HG3	1:B:131:PHE:CZ	2.22	0.73
1:B:543:ARG:NH1	1:B:905:SER:HB3	2.02	0.73
1:A:1091:PHE:CE1	1:A:1096:GLU:HG2	2.22	0.73
1:B:215:LEU:O	1:B:219:PRO:HD2	1.88	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1179:ARG:NH2	1:B:1209:VAL:HG11	2.02	0.73
1:A:225:ALA:HA	1:A:302:ILE:HD12	1.70	0.73
1:A:902:THR:C	1:A:904:VAL:H	1.90	0.73
1:B:695:ARG:O	1:B:699:LEU:HD23	1.88	0.73
1:A:35:VAL:CG2	1:A:36:LEU:H	1.98	0.73
1:A:420:ALA:C	1:A:421:LEU:HD12	2.09	0.73
1:A:704:TRP:CZ2	1:A:707:PHE:HB2	2.23	0.73
1:A:960:VAL:HG12	1:A:966:THR:OG1	1.87	0.73
1:B:878:GLN:O	1:B:882:ASP:HB2	1.88	0.73
1:B:786:TYR:HE2	1:B:790:LYS:HZ3	1.34	0.73
1:A:834:GLN:HG3	1:A:835:ASN:N	2.04	0.73
1:B:163:ASP:HB2	1:B:166:GLU:HB3	1.69	0.73
1:B:467:GLY:CA	1:B:545:PRO:HG3	2.19	0.73
1:B:233:SER:O	1:B:236:THR:HB	1.89	0.73
1:A:158:TRP:NE1	1:A:900:PHE:HB2	2.04	0.72
1:A:272:ARG:O	1:A:276:ASN:HB2	1.88	0.72
1:A:611:LEU:HD23	1:A:618:TYR:HB2	1.71	0.72
1:A:1022:LEU:HG	1:A:1104:TRP:CE2	2.23	0.72
1:A:1037:VAL:HG12	1:A:1051:GLY:H	1.53	0.72
1:B:419:VAL:HG23	1:B:593:VAL:HG13	1.71	0.72
1:B:791:SER:O	1:B:795:GLN:HB2	1.89	0.72
1:B:846:SER:O	1:B:849:TYR:HB2	1.89	0.72
1:B:927:ALA:HA	1:B:930:LYS:HE3	1.70	0.72
1:B:1076:VAL:HG13	1:B:1194:LEU:HD13	1.70	0.72
1:A:254:LEU:HD22	1:A:254:LEU:N	2.04	0.72
1:A:991:ALA:HB1	1:A:992:PRO:HD2	1.69	0.72
1:B:254:LEU:HD22	1:B:254:LEU:N	2.04	0.72
1:A:233:SER:O	1:A:236:THR:HB	1.89	0.72
1:A:1037:VAL:HG21	1:A:1087:ALA:HB3	1.71	0.72
1:B:213:VAL:O	1:B:217:ILE:HG12	1.89	0.72
1:B:484:ILE:CG2	1:B:496:ILE:HD12	2.19	0.72
1:A:1076:VAL:HG13	1:A:1194:LEU:HD13	1.70	0.72
1:A:168:ASN:HB3	1:A:897:ILE:HD13	1.69	0.72
1:A:550:LEU:HB2	1:A:580:VAL:HG23	1.72	0.72
1:B:797:VAL:O	1:B:799:TRP:N	2.23	0.72
1:A:913:GLU:OE2	1:A:913:GLU:HA	1.89	0.72
1:B:740:PRO:HG2	1:B:741:PRO:HD3	1.70	0.72
1:B:1091:PHE:CE1	1:B:1096:GLU:HG2	2.22	0.72
1:A:1080:GLU:OE2	1:A:1109:LEU:HD12	1.90	0.72
1:B:156:ILE:HD12	1:B:156:ILE:N	2.04	0.72
1:B:519:LEU:HD13	1:B:519:LEU:H	1.52	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:589:ARG:O	1:B:591:ALA:N	2.20	0.72
1:B:766:PHE:HA	1:B:769:GLN:NE2	2.04	0.72
1:B:888:GLY:O	1:B:892:ILE:HG12	1.90	0.72
1:B:1037:VAL:HG12	1:B:1051:GLY:H	1.54	0.72
1:B:1147:GLU:HB3	1:B:1186:LEU:HD22	1.71	0.72
1:A:970:VAL:O	1:A:973:VAL:HB	1.88	0.72
1:A:1012:PRO:O	1:A:1013:GLU:HB2	1.89	0.72
1:A:1150:ILE:O	1:A:1154:ILE:HG13	1.88	0.72
1:B:86:LYS:HG2	1:B:738:GLY:O	1.89	0.72
1:A:202:ILE:HG12	1:A:333:SER:OG	1.89	0.72
1:A:471:GLN:HA	1:A:553:ALA:HA	1.72	0.72
1:B:202:ILE:HG12	1:B:333:SER:OG	1.90	0.72
1:A:215:LEU:O	1:A:219:PRO:HD2	1.90	0.72
1:A:324:ILE:HG13	1:A:326:GLN:HB3	1.72	0.72
1:A:385:GLN:NE2	1:A:386:GLY:H	1.87	0.72
1:A:534:ARG:NH2	1:A:564:VAL:HG11	2.05	0.72
1:A:711:ILE:O	1:A:715:ILE:HG12	1.90	0.72
1:A:1040:TYR:O	1:A:1042:THR:HG22	1.89	0.72
1:A:178:ILE:HG12	1:A:358:ALA:HB2	1.72	0.71
1:A:922:ILE:HB	1:A:923:PRO:HD3	1.71	0.71
1:B:225:ALA:HA	1:B:302:ILE:HD12	1.71	0.71
1:B:588:VAL:O	1:B:591:ALA:HB2	1.90	0.71
1:B:1076:VAL:HG13	1:B:1194:LEU:HD22	1.72	0.71
1:A:318:ILE:HD11	1:A:325:GLY:N	2.05	0.71
1:A:878:GLN:O	1:A:882:ASP:HB2	1.89	0.71
1:B:453:ASP:HB3	1:B:456:THR:HG23	1.72	0.71
1:B:1037:VAL:HG21	1:B:1087:ALA:HB3	1.72	0.71
1:A:846:SER:O	1:A:849:TYR:HB2	1.91	0.71
1:A:1014:ILE:HD13	1:A:1106:ARG:NH1	2.05	0.71
1:B:267:LYS:H	1:B:270:LEU:HD21	1.52	0.71
1:B:711:ILE:O	1:B:715:ILE:HG12	1.89	0.71
1:B:718:GLY:O	1:B:722:PRO:CD	2.32	0.71
1:B:806:THR:O	1:B:810:LEU:HG	1.90	0.71
1:A:246:ALA:HB1	1:A:277:LEU:HB3	1.72	0.71
1:A:265:GLY:HA2	1:A:793:LEU:HD21	1.72	0.71
1:A:1014:ILE:HD13	1:A:1106:ARG:HH12	1.55	0.71
1:A:897:ILE:HG13	1:A:898:GLU:N	2.04	0.71
1:B:447:VAL:HG13	1:B:454:ILE:CG2	2.21	0.71
1:B:970:VAL:HG23	1:B:971:LEU:HD22	1.72	0.71
1:A:78:PHE:HZ	1:A:967:PHE:O	1.74	0.71
1:A:740:PRO:HG2	1:A:741:PRO:HD3	1.70	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:791:SER:O	1:A:795:GLN:HB2	1.90	0.71
1:A:888:GLY:O	1:A:892:ILE:HG12	1.91	0.71
1:A:1039:ASN:HB2	1:A:1047:PRO:CA	2.19	0.71
1:B:1037:VAL:CG2	1:B:1087:ALA:HB3	2.21	0.71
1:B:1260:LYS:HD2	1:B:1260:LYS:H	1.55	0.71
1:A:59:ILE:HD11	1:A:124:VAL:HG11	1.73	0.71
1:A:453:ASP:HB3	1:A:456:THR:HG23	1.71	0.71
1:A:1145:ALA:HB2	1:A:1154:ILE:HD12	1.71	0.71
1:B:58:ILE:HG13	1:B:193:MET:HG3	1.73	0.71
1:B:534:ARG:NH2	1:B:564:VAL:HG11	2.05	0.71
1:B:1079:LEU:HD23	1:B:1194:LEU:HD11	1.73	0.71
1:A:163:ASP:HB2	1:A:166:GLU:HB3	1.73	0.71
1:A:970:VAL:HG23	1:A:971:LEU:HD22	1.73	0.71
1:B:246:ALA:HB1	1:B:277:LEU:HB3	1.71	0.71
1:B:897:ILE:HG13	1:B:898:GLU:N	2.01	0.71
1:B:902:THR:C	1:B:904:VAL:H	1.91	0.71
1:A:158:TRP:CZ2	1:A:900:PHE:HB2	2.26	0.71
1:A:429:LYS:HD3	1:A:429:LYS:N	2.05	0.71
1:A:900:PHE:C	1:A:902:THR:H	1.93	0.71
1:B:386:GLY:CA	1:B:450:ASP:HA	2.21	0.71
1:B:429:LYS:HD3	1:B:429:LYS:N	2.06	0.71
1:B:550:LEU:HB2	1:B:580:VAL:HG23	1.72	0.71
1:B:1036:VAL:HG11	1:B:1052:LEU:HD23	1.73	0.71
1:A:213:VAL:O	1:A:217:ILE:HG12	1.91	0.71
1:A:419:VAL:HG23	1:A:593:VAL:HG13	1.71	0.71
1:A:484:ILE:CG2	1:A:496:ILE:HD12	2.19	0.71
1:B:35:VAL:CG2	1:B:36:LEU:H	1.97	0.71
1:B:1039:ASN:CB	1:B:1047:PRO:HA	2.16	0.71
1:A:68:MET:O	1:A:71:PHE:HB3	1.91	0.70
1:A:174:ASP:O	1:A:178:ILE:HG13	1.91	0.70
1:A:1037:VAL:CG2	1:A:1087:ALA:HB3	2.21	0.70
1:B:318:ILE:CD1	1:B:325:GLY:H	2.03	0.70
1:B:409:LEU:CD2	1:B:602:ILE:HB	2.21	0.70
1:A:35:VAL:CG2	1:A:355:ARG:HH21	2.05	0.70
1:B:611:LEU:HD23	1:B:618:TYR:HB2	1.72	0.70
1:A:1019:THR:OG1	1:A:1101:ASN:HA	1.91	0.70
1:A:1036:VAL:HG11	1:A:1052:LEU:HD23	1.73	0.70
1:B:133:CYS:O	1:B:134:LEU:C	2.30	0.70
1:B:385:GLN:NE2	1:B:386:GLY:H	1.89	0.70
1:B:791:SER:N	1:B:794:ARG:HH21	1.89	0.70
1:A:979:PHE:O	1:A:982:MET:HB3	1.91	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1076:VAL:HG13	1:A:1194:LEU:HD22	1.72	0.70
1:B:304:ALA:HB2	1:B:758:LEU:HD23	1.72	0.70
1:B:607:ASN:HB3	1:B:610:GLU:OE2	1.92	0.70
1:B:834:GLN:HG3	1:B:835:ASN:N	2.05	0.70
1:A:811:THR:HA	1:A:814:LEU:HD23	1.73	0.70
1:A:834:GLN:HG3	1:A:835:ASN:H	1.56	0.70
1:A:1122:SER:HA	1:A:1164:ARG:HA	1.72	0.70
1:B:1040:TYR:O	1:B:1042:THR:HG22	1.91	0.70
1:B:1202:LEU:HD21	1:B:1206:SER:CB	2.20	0.70
1:A:285:ILE:O	1:A:289:ILE:HG12	1.91	0.70
1:A:449:ILE:HD13	1:A:450:ASP:N	2.06	0.70
1:B:900:PHE:C	1:B:902:THR:H	1.94	0.70
1:A:324:ILE:CG1	1:A:326:GLN:H	2.05	0.70
1:B:261:ILE:C	1:B:263:PHE:H	1.95	0.70
1:B:1036:VAL:CB	1:B:1052:LEU:HB3	2.22	0.70
1:B:1080:GLU:OE2	1:B:1109:LEU:HD12	1.90	0.70
1:B:374:PHE:HD1	1:B:375:SER:H	1.40	0.70
1:B:392:ASN:O	1:B:445:GLY:HA3	1.92	0.70
1:A:527:LEU:HD23	1:A:527:LEU:N	2.06	0.70
1:A:618:TYR:O	1:A:622:VAL:HG23	1.91	0.70
1:B:35:VAL:CG2	1:B:355:ARG:HH21	2.05	0.70
1:B:834:GLN:HG3	1:B:835:ASN:H	1.57	0.70
1:A:60:HIS:O	1:A:63:ALA:HB3	1.92	0.69
1:A:354:ALA:O	1:A:358:ALA:HB3	1.92	0.69
1:A:1147:GLU:HB3	1:A:1186:LEU:HD22	1.73	0.69
1:A:1178:GLN:O	1:A:1181:ALA:HB3	1.92	0.69
1:B:318:ILE:CD1	1:B:324:ILE:HG12	2.20	0.69
1:A:423:GLY:HA2	1:A:597:PHE:O	1.93	0.69
1:A:607:ASN:HB3	1:A:610:GLU:OE2	1.92	0.69
1:B:297:ALA:O	1:B:301:LEU:HB2	1.92	0.69
1:B:537:ILE:O	1:B:538:ALA:C	2.30	0.69
1:A:218:SER:HB2	1:A:219:PRO:CD	2.22	0.69
1:A:727:ILE:O	1:A:731:VAL:HG23	1.92	0.69
1:B:178:ILE:HG12	1:B:358:ALA:HB2	1.72	0.69
1:B:232:LEU:HB2	1:B:295:MET:SD	2.32	0.69
1:B:285:ILE:O	1:B:289:ILE:HG12	1.91	0.69
1:B:322:TYR:CZ	1:B:324:ILE:HD12	2.27	0.69
1:A:786:TYR:HE2	1:A:790:LYS:HZ3	1.41	0.69
1:B:99:MET:HB3	1:B:960:VAL:O	1.92	0.69
1:B:409:LEU:HD13	1:B:410:ASN:N	2.08	0.69
1:B:819:ALA:O	1:B:822:LYS:HB3	1.91	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:913:GLU:HA	1:B:913:GLU:OE2	1.92	0.69
1:A:467:GLY:N	1:A:545:PRO:HG3	2.08	0.69
1:A:883:LYS:HA	1:A:886:LEU:HG	1.73	0.69
1:B:207:GLY:HA3	1:B:211:THR:N	2.08	0.69
1:B:218:SER:HB2	1:B:219:PRO:CD	2.22	0.69
1:A:58:ILE:HG13	1:A:193:MET:HG3	1.74	0.69
1:A:138:ARG:NH2	1:B:515:GLN:HE21	1.91	0.69
1:A:406:LEU:HD11	1:A:432:THR:CG2	2.23	0.69
1:A:857:LEU:HD13	1:A:976:ALA:HB3	1.74	0.69
1:B:913:GLU:HA	1:B:916:TYR:HD2	1.58	0.69
1:A:125:ALA:O	1:A:129:VAL:HG23	1.93	0.69
1:A:204:PHE:CA	1:A:211:THR:HG21	2.21	0.69
1:A:232:LEU:HB2	1:A:295:MET:SD	2.32	0.69
1:A:447:VAL:HG13	1:A:454:ILE:CG2	2.22	0.69
1:B:354:ALA:O	1:B:358:ALA:HB3	1.93	0.69
1:A:45:LEU:HD22	1:A:45:LEU:H	1.57	0.69
1:A:217:ILE:HG13	1:A:218:SER:N	2.08	0.69
1:A:388:LEU:HB2	1:A:413:VAL:HG12	1.73	0.69
1:A:409:LEU:CD2	1:A:602:ILE:HB	2.22	0.69
1:A:409:LEU:HD13	1:A:410:ASN:N	2.08	0.69
1:A:1079:LEU:HD23	1:A:1194:LEU:HD11	1.73	0.69
1:B:35:VAL:O	1:B:39:PHE:HB2	1.92	0.69
1:B:59:ILE:HD11	1:B:124:VAL:HG11	1.73	0.69
1:B:60:HIS:O	1:B:63:ALA:HB3	1.92	0.69
1:B:218:SER:HB2	1:B:219:PRO:HD3	1.75	0.69
1:B:420:ALA:C	1:B:421:LEU:HD12	2.12	0.69
1:B:527:LEU:HD23	1:B:527:LEU:N	2.07	0.69
1:B:849:TYR:HD1	1:B:854:THR:HA	1.58	0.69
1:B:883:LYS:HA	1:B:886:LEU:HG	1.74	0.69
1:B:1142:VAL:O	1:B:1146:LYS:HG2	1.92	0.69
1:A:219:PRO:O	1:A:223:LEU:HG	1.91	0.69
1:A:585:LEU:HD12	1:A:618:TYR:HE1	1.56	0.69
1:B:585:LEU:HD12	1:B:618:TYR:HE1	1.56	0.69
1:B:972:LEU:O	1:B:975:SER:HB2	1.93	0.69
1:A:133:CYS:O	1:A:134:LEU:C	2.29	0.69
1:A:519:LEU:HD13	1:A:519:LEU:N	2.07	0.69
1:A:267:LYS:H	1:A:270:LEU:HD21	1.56	0.68
1:A:482:GLU:O	1:A:485:ARG:N	2.26	0.68
1:B:121:VAL:HG23	1:B:122:LEU:N	2.08	0.68
1:B:324:ILE:CG1	1:B:326:GLN:H	2.05	0.68
1:A:354:ALA:O	1:A:358:ALA:CB	2.41	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:791:SER:HB3	1:A:1010:LYS:HG2	1.75	0.68
1:A:1053:SER:C	1:A:1054:LEU:HD22	2.13	0.68
1:B:615:LYS:HA	1:B:619:PHE:CD2	2.28	0.68
1:A:282:ARG:HB3	1:A:778:GLU:HG2	1.74	0.68
1:A:389:GLU:HB2	1:A:448:SER:HB3	1.75	0.68
1:A:1243:GLN:O	1:A:1246:LYS:HD2	1.93	0.68
1:B:857:LEU:CD1	1:B:976:ALA:HB3	2.23	0.68
1:B:1053:SER:C	1:B:1054:LEU:HD22	2.13	0.68
1:A:158:TRP:HE1	1:A:900:PHE:HB2	1.55	0.68
1:A:819:ALA:O	1:A:822:LYS:HB3	1.94	0.68
1:A:1137:SER:OG	1:A:1140:GLU:HB2	1.93	0.68
1:A:1158:PRO:O	1:A:1159:ASP:HB2	1.94	0.68
1:B:389:GLU:HB2	1:B:448:SER:HB3	1.74	0.68
1:A:210:LEU:HG	1:A:322:TYR:CD2	2.29	0.68
1:A:537:ILE:O	1:A:538:ALA:C	2.30	0.68
1:A:615:LYS:HA	1:A:619:PHE:CD2	2.28	0.68
1:A:972:LEU:O	1:A:975:SER:HB2	1.93	0.68
1:B:310:PHE:CE2	1:B:331:PHE:HB3	2.28	0.68
1:B:1166:GLY:O	1:B:1167:ASP:HB3	1.93	0.68
1:A:297:ALA:O	1:A:301:LEU:HB2	1.93	0.68
1:A:362:PHE:HA	1:A:365:ILE:HD12	1.75	0.68
1:A:1166:GLY:O	1:A:1167:ASP:HB3	1.93	0.68
1:A:36:LEU:HD12	1:A:37:THR:N	2.07	0.68
1:A:585:LEU:HD22	1:A:585:LEU:H	1.59	0.68
1:A:1036:VAL:CB	1:A:1052:LEU:HB3	2.22	0.68
1:A:1142:VAL:O	1:A:1146:LYS:HG2	1.94	0.68
1:B:388:LEU:HB2	1:B:413:VAL:HG12	1.75	0.68
1:B:979:PHE:O	1:B:982:MET:HB3	1.94	0.68
1:B:1102:VAL:HG13	1:B:1103:GLN:H	1.59	0.68
1:A:256:ALA:O	1:A:260:VAL:HG23	1.94	0.68
1:B:1037:VAL:HG22	1:B:1087:ALA:O	1.93	0.68
1:B:1137:SER:OG	1:B:1140:GLU:HB2	1.94	0.68
1:A:443:LEU:HD23	1:A:443:LEU:O	1.93	0.68
1:B:1032:GLN:HE21	1:B:1055:GLU:CG	2.07	0.68
1:B:1243:GLN:O	1:B:1246:LYS:HD2	1.94	0.68
1:A:697:LEU:HB3	1:A:828:ARG:NH2	2.09	0.68
1:A:826:GLY:O	1:A:829:LEU:HB2	1.94	0.68
1:A:911:LYS:O	1:A:914:THR:HB	1.94	0.68
1:B:519:LEU:HD13	1:B:519:LEU:N	2.09	0.68
1:B:922:ILE:HB	1:B:923:PRO:HD3	1.75	0.68
1:B:1039:ASN:HB2	1:B:1047:PRO:CA	2.20	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:315:SER:OG	1:A:747:ASN:HB3	1.95	0.67
1:B:45:LEU:HD22	1:B:45:LEU:H	1.57	0.67
1:B:36:LEU:HD12	1:B:37:THR:N	2.08	0.67
1:B:357:ALA:O	1:B:361:VAL:HG22	1.95	0.67
1:A:91:MET:HB2	1:A:94:ALA:HB3	1.76	0.67
1:A:288:ALA:HA	1:A:291:ALA:HB3	1.75	0.67
1:B:315:SER:CB	1:B:747:ASN:HD22	2.08	0.67
1:B:354:ALA:O	1:B:358:ALA:CB	2.42	0.67
1:B:390:PHE:HB2	1:B:411:LEU:O	1.94	0.67
1:B:401:LYS:H	1:B:401:LYS:CD	2.06	0.67
1:B:433:VAL:HG13	1:B:549:LEU:HD23	1.74	0.67
1:B:534:ARG:HH21	1:B:564:VAL:HG11	1.60	0.67
1:B:697:LEU:HB3	1:B:828:ARG:NH2	2.09	0.67
1:A:78:PHE:CZ	1:A:967:PHE:O	2.48	0.67
1:A:218:SER:HB2	1:A:219:PRO:HD3	1.75	0.67
1:A:314:THR:O	1:A:318:ILE:HG22	1.94	0.67
1:B:91:MET:HB2	1:B:94:ALA:HB3	1.75	0.67
1:B:99:MET:HB2	1:B:961:THR:O	1.95	0.67
1:B:187:GLY:O	1:B:190:PHE:HB3	1.94	0.67
1:B:286:LYS:HE2	1:B:778:GLU:HG2	1.77	0.67
1:B:919:SER:O	1:B:923:PRO:CD	2.42	0.67
1:A:552:GLU:O	1:A:555:SER:N	2.25	0.67
1:A:1037:VAL:HG22	1:A:1087:ALA:O	1.94	0.67
1:B:286:LYS:HG2	1:B:778:GLU:HG3	1.75	0.67
1:B:207:GLY:HA3	1:B:211:THR:H	1.59	0.67
1:B:338:ALA:O	1:B:341:VAL:HB	1.94	0.67
1:B:482:GLU:O	1:B:485:ARG:N	2.27	0.67
1:A:141:HIS:O	1:A:144:ARG:HB3	1.95	0.67
1:A:696:ILE:HD13	1:A:998:THR:HG23	1.75	0.67
1:A:1114:GLN:HE22	1:A:1200:SER:HB2	1.58	0.67
1:B:68:MET:O	1:B:71:PHE:HB3	1.94	0.67
1:B:811:THR:HA	1:B:814:LEU:HD23	1.75	0.67
1:B:1019:THR:HG22	1:B:1100:LEU:HD12	1.76	0.67
1:B:1229:ARG:C	1:B:1231:SER:H	1.98	0.67
1:A:35:VAL:O	1:A:39:PHE:HB2	1.94	0.67
1:B:55:LEU:O	1:B:59:ILE:HG23	1.95	0.67
1:B:1137:SER:HB3	1:B:1140:GLU:CB	2.25	0.67
1:B:696:ILE:HD13	1:B:998:THR:HG23	1.75	0.67
1:B:850:GLY:C	1:B:852:GLN:H	1.98	0.67
1:A:74:MET:SD	1:A:953:PHE:CE1	2.88	0.67
1:A:318:ILE:HG23	1:A:735:PHE:CE2	2.29	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1137:SER:HB3	1:A:1140:GLU:CB	2.24	0.67
1:B:618:TYR:O	1:B:622:VAL:HG23	1.94	0.67
1:B:799:TRP:HA	1:B:799:TRP:HE3	1.60	0.67
1:B:909:GLU:O	1:B:912:PHE:HB2	1.95	0.67
1:A:138:ARG:NH2	1:B:515:GLN:NE2	2.42	0.66
1:A:261:ILE:C	1:A:263:PHE:H	1.98	0.66
1:B:98:ALA:O	1:B:102:LYS:HG2	1.95	0.66
1:B:210:LEU:HG	1:B:322:TYR:HD2	1.58	0.66
1:B:773:PHE:O	1:B:776:ALA:HB3	1.95	0.66
1:B:1063:ALA:HA	1:B:1225:VAL:HG13	1.77	0.66
1:A:214:ILE:HG12	1:A:331:PHE:CE1	2.30	0.66
1:A:386:GLY:CA	1:A:450:ASP:HA	2.24	0.66
1:A:901:ARG:HD3	1:A:901:ARG:H	1.59	0.66
1:A:1032:GLN:HE21	1:A:1055:GLU:CG	2.07	0.66
1:A:1154:ILE:HD13	1:A:1161:TYR:HE2	1.58	0.66
1:B:125:ALA:O	1:B:129:VAL:HG23	1.94	0.66
1:B:908:ARG:O	1:B:909:GLU:C	2.34	0.66
1:A:35:VAL:HG21	1:A:355:ARG:HH21	1.60	0.66
1:A:1229:ARG:C	1:A:1231:SER:H	1.99	0.66
1:A:1260:LYS:H	1:A:1260:LYS:HD2	1.59	0.66
1:B:122:LEU:HD12	1:B:939:SER:HB2	1.77	0.66
1:B:164:VAL:O	1:B:164:VAL:CG1	2.43	0.66
1:B:414:LYS:HB2	1:B:417:GLN:OE1	1.96	0.66
1:B:447:VAL:HG13	1:B:454:ILE:HG22	1.77	0.66
1:B:851:TRP:HA	1:B:854:THR:CB	2.21	0.66
1:B:978:VAL:HG22	2:B:6003:2J8:H29	1.77	0.66
1:A:175:VAL:HG13	1:A:176:SER:N	2.10	0.66
1:A:238:LYS:HZ2	1:A:242:ALA:HB2	1.58	0.66
1:A:357:ALA:O	1:A:361:VAL:HG22	1.94	0.66
1:A:1001:ALA:O	1:A:1005:ILE:HG13	1.94	0.66
1:A:212:LEU:HA	1:A:215:LEU:CG	2.26	0.66
1:A:318:ILE:HG23	1:A:735:PHE:CZ	2.30	0.66
1:B:207:GLY:HA3	1:B:211:THR:CB	2.24	0.66
1:B:238:LYS:HZ3	1:B:242:ALA:HB2	1.57	0.66
1:A:121:VAL:HG23	1:A:122:LEU:N	2.09	0.66
1:A:900:PHE:O	1:A:902:THR:N	2.21	0.66
1:B:256:ALA:O	1:B:260:VAL:HG23	1.95	0.66
1:A:401:LYS:H	1:A:401:LYS:CD	2.07	0.66
1:A:534:ARG:HH21	1:A:564:VAL:HG11	1.60	0.66
1:A:790:LYS:HB3	1:A:794:ARG:NH2	2.10	0.66
1:B:219:PRO:O	1:B:223:LEU:HG	1.96	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:288:ALA:HA	1:B:291:ALA:HB3	1.78	0.66
1:B:318:ILE:HD13	1:B:327:VAL:CG1	2.25	0.66
1:B:443:LEU:O	1:B:443:LEU:HD23	1.96	0.66
1:B:458:ASN:ND2	1:B:459:VAL:N	2.44	0.66
1:B:468:VAL:HG22	1:B:549:LEU:HD13	1.78	0.66
1:A:239:GLU:HB3	1:A:285:ILE:HG12	1.78	0.66
1:A:282:ARG:O	1:A:286:LYS:HD3	1.96	0.66
1:A:909:GLU:O	1:A:912:PHE:HB2	1.96	0.66
1:B:207:GLY:CA	1:B:211:THR:HB	2.24	0.66
1:B:1179:ARG:HA	1:B:1182:ILE:HG13	1.77	0.66
1:B:1184:ARG:O	1:B:1187:VAL:HG12	1.95	0.66
1:A:414:LYS:HB2	1:A:417:GLN:OE1	1.95	0.66
1:B:985:GLY:HA3	2:B:6003:2J8:H32A	1.76	0.66
1:A:458:ASN:ND2	1:A:459:VAL:N	2.44	0.66
1:B:68:MET:SD	1:B:332:PHE:HE1	2.18	0.66
1:B:147:PHE:CD2	1:B:365:ILE:HG12	2.31	0.66
1:B:217:ILE:HG13	1:B:218:SER:N	2.11	0.66
1:B:465:ILE:O	1:B:545:PRO:HB2	1.96	0.66
1:B:697:LEU:HD12	1:B:698:LYS:N	2.11	0.66
1:A:447:VAL:HG13	1:A:454:ILE:HG22	1.78	0.65
1:A:468:VAL:HG22	1:A:549:LEU:HD13	1.77	0.65
1:B:141:HIS:O	1:B:144:ARG:HB3	1.96	0.65
1:B:467:GLY:N	1:B:545:PRO:HG3	2.11	0.65
1:A:98:ALA:O	1:A:102:LYS:HG2	1.96	0.65
1:A:158:TRP:CE2	1:A:900:PHE:HB2	2.31	0.65
1:A:214:ILE:HD11	1:A:330:VAL:HB	1.78	0.65
1:A:1137:SER:CB	1:A:1140:GLU:HB2	2.26	0.65
1:A:324:ILE:HG13	1:A:326:GLN:H	1.61	0.65
1:A:438:ARG:HB2	1:A:462:LEU:HD21	1.78	0.65
1:A:892:ILE:CB	1:A:916:TYR:HE1	2.09	0.65
1:B:379:HIS:CD2	1:B:380:LYS:H	2.14	0.65
1:B:972:LEU:N	1:B:972:LEU:HD12	2.12	0.65
1:B:1144:ALA:HA	1:B:1186:LEU:CD1	2.23	0.65
1:A:889:SER:OG	1:A:919:SER:HB2	1.96	0.65
1:B:286:LYS:HE2	1:B:778:GLU:CG	2.26	0.65
1:B:585:LEU:H	1:B:585:LEU:HD22	1.61	0.65
1:B:790:LYS:HB3	1:B:794:ARG:NH2	2.11	0.65
1:B:799:TRP:HA	1:B:799:TRP:CE3	2.28	0.65
1:A:148:PHE:HD2	1:A:913:GLU:OE2	1.79	0.65
1:A:462:LEU:O	1:A:466:ILE:HD13	1.96	0.65
1:A:533:GLN:NE2	1:A:553:ALA:HB1	2.11	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1063:ALA:HB2	1:B:1236:ALA:HB1	1.79	0.65
1:A:43:GLY:HA3	1:A:46:ASP:HB2	1.79	0.65
1:A:55:LEU:O	1:A:59:ILE:HG23	1.97	0.65
1:A:207:GLY:HA3	1:A:211:THR:N	2.11	0.65
1:A:857:LEU:CD1	1:A:977:ILE:HG12	2.25	0.65
1:B:727:ILE:O	1:B:731:VAL:HG23	1.96	0.65
1:A:68:MET:SD	1:A:332:PHE:HE1	2.19	0.65
1:A:338:ALA:O	1:A:341:VAL:HB	1.95	0.65
1:A:799:TRP:HA	1:A:799:TRP:CE3	2.29	0.65
1:A:799:TRP:HA	1:A:799:TRP:HE3	1.60	0.65
1:A:919:SER:O	1:A:923:PRO:CD	2.45	0.65
1:A:1106:ARG:O	1:A:1109:LEU:HD22	1.96	0.65
1:B:158:TRP:CZ2	1:B:900:PHE:HB2	2.32	0.65
1:B:536:ALA:O	1:B:539:ARG:HB3	1.97	0.65
1:B:1114:GLN:HE22	1:B:1200:SER:HB2	1.61	0.65
1:A:322:TYR:CZ	1:A:324:ILE:CD1	2.80	0.65
1:A:564:VAL:O	1:A:567:ALA:HB3	1.96	0.65
1:A:589:ARG:C	1:A:591:ALA:H	2.00	0.65
1:A:697:LEU:HD12	1:A:698:LYS:N	2.11	0.65
1:A:1063:ALA:HA	1:A:1225:VAL:HG13	1.79	0.65
1:B:211:THR:O	1:B:215:LEU:HG	1.97	0.65
1:B:1036:VAL:HB	1:B:1052:LEU:CB	2.24	0.65
1:A:1195:LEU:HD23	1:A:1214:LEU:HD11	1.79	0.65
1:B:288:ALA:O	1:B:291:ALA:HB3	1.97	0.65
1:B:769:GLN:HG3	1:B:773:PHE:HE2	1.62	0.65
1:B:1138:TYR:O	1:B:1142:VAL:HG23	1.97	0.65
1:A:257:ILE:HD13	1:A:257:ILE:C	2.17	0.65
1:A:315:SER:HA	1:A:747:ASN:HD22	1.61	0.65
1:A:388:LEU:HD13	1:A:413:VAL:HG13	1.79	0.65
1:A:883:LYS:O	1:A:887:GLU:HB2	1.97	0.65
1:B:1137:SER:CB	1:B:1140:GLU:HB2	2.26	0.65
1:A:834:GLN:O	1:A:837:ALA:HB3	1.96	0.64
1:A:857:LEU:HG	1:A:977:ILE:CD1	2.27	0.64
1:A:972:LEU:HD12	1:A:972:LEU:N	2.13	0.64
1:A:1179:ARG:HA	1:A:1182:ILE:HG13	1.78	0.64
1:B:198:GLY:O	1:B:202:ILE:HG13	1.97	0.64
1:B:324:ILE:HG12	1:B:326:GLN:H	1.61	0.64
1:B:361:VAL:O	1:B:365:ILE:HD12	1.96	0.64
1:B:879:ALA:O	1:B:883:LYS:HG2	1.97	0.64
1:A:371:ILE:CG2	1:A:371:ILE:O	2.45	0.64
1:A:549:LEU:HD12	1:A:549:LEU:N	2.13	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:722:PRO:HG2	1:A:841:THR:CB	2.27	0.64
1:A:1023:LYS:HG3	1:A:1026:MET:HG3	1.80	0.64
1:A:1102:VAL:HG13	1:A:1103:GLN:H	1.61	0.64
1:B:690:PRO:HG2	1:B:1006:ARG:HH22	1.60	0.64
1:B:762:SER:O	1:B:765:THR:HG22	1.96	0.64
1:B:838:ASN:ND2	1:B:979:PHE:HB3	2.11	0.64
1:B:845:ILE:HA	1:B:848:ILE:HG22	1.78	0.64
1:B:892:ILE:CB	1:B:916:TYR:HE1	2.09	0.64
1:A:762:SER:O	1:A:765:THR:HG22	1.97	0.64
1:B:107:MET:HA	1:B:110:TYR:HD2	1.62	0.64
1:B:174:ASP:O	1:B:178:ILE:HG13	1.97	0.64
1:B:857:LEU:HD12	1:B:973:VAL:HG13	1.79	0.64
1:B:1128:ALA:CB	1:B:1136:VAL:HG13	2.27	0.64
1:A:390:PHE:HB2	1:A:411:LEU:O	1.98	0.64
1:B:339:PHE:CE1	2:B:6003:2J8:C21	2.81	0.64
1:B:478:THR:HG21	1:B:482:GLU:HG3	1.80	0.64
1:B:692:SER:HB2	1:B:695:ARG:HB3	1.78	0.64
1:B:857:LEU:HD11	1:B:976:ALA:HB3	1.79	0.64
1:B:911:LYS:O	1:B:914:THR:HB	1.97	0.64
1:A:288:ALA:O	1:A:291:ALA:HB3	1.98	0.64
1:A:308:LEU:HA	1:A:751:PHE:CE2	2.32	0.64
1:A:419:VAL:O	1:A:579:ILE:HA	1.96	0.64
1:A:688:VAL:HG22	1:A:1003:HIS:CE1	2.33	0.64
1:A:1116:PRO:HB3	1:A:1178:GLN:OE1	1.97	0.64
1:A:1199:THR:CG2	1:A:1210:VAL:HG11	2.28	0.64
1:B:58:ILE:HD12	1:B:58:ILE:H	1.63	0.64
1:B:458:ASN:ND2	1:B:459:VAL:H	1.94	0.64
1:B:762:SER:CA	1:B:765:THR:HG22	2.28	0.64
1:B:883:LYS:O	1:B:887:GLU:HB2	1.96	0.64
1:B:1195:LEU:HD23	1:B:1214:LEU:HD11	1.79	0.64
1:B:1205:GLU:HA	1:B:1208:LYS:HB3	1.80	0.64
1:A:158:TRP:HA	1:A:162:HIS:CD2	2.30	0.64
1:A:198:GLY:O	1:A:202:ILE:HG13	1.98	0.64
1:A:536:ALA:O	1:A:539:ARG:HB3	1.98	0.64
1:A:1138:TYR:O	1:A:1142:VAL:HG23	1.97	0.64
1:B:359:TYR:HA	1:B:362:PHE:HB3	1.80	0.64
1:B:438:ARG:HB2	1:B:462:LEU:HD21	1.78	0.64
1:B:889:SER:OG	1:B:919:SER:HB2	1.97	0.64
1:B:901:ARG:H	1:B:901:ARG:HD3	1.60	0.64
1:B:1116:PRO:HB3	1:B:1178:GLN:OE1	1.97	0.64
1:A:211:THR:O	1:A:215:LEU:HG	1.98	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:267:LYS:HA	1:A:270:LEU:HD11	1.79	0.64
1:A:292:ASN:CA	1:A:295:MET:HB2	2.26	0.64
1:A:838:ASN:ND2	1:A:979:PHE:HB3	2.12	0.64
1:A:1020:GLN:NE2	1:A:1022:LEU:H	1.95	0.64
1:B:76:ASP:OD1	1:B:326:GLN:HB2	1.98	0.64
1:B:423:GLY:HA2	1:B:597:PHE:O	1.98	0.64
1:B:478:THR:CG2	1:B:482:GLU:HG3	2.28	0.64
1:A:147:PHE:CD2	1:A:365:ILE:HG12	2.33	0.64
1:A:279:GLU:HG2	1:A:782:LYS:NZ	2.13	0.64
1:A:458:ASN:ND2	1:A:459:VAL:H	1.96	0.64
1:A:996:LYS:H	1:A:996:LYS:CD	2.08	0.64
1:A:1081:ARG:CZ	1:A:1098:LYS:O	2.46	0.64
1:B:1159:ASP:O	1:B:1160:LYS:HG3	1.98	0.64
1:A:585:LEU:O	1:A:588:VAL:HB	1.97	0.64
1:B:175:VAL:HG13	1:B:176:SER:N	2.13	0.64
1:B:1178:GLN:O	1:B:1181:ALA:HB3	1.97	0.64
1:A:59:ILE:CD1	1:A:124:VAL:HG11	2.28	0.64
1:A:392:ASN:O	1:A:445:GLY:HA3	1.98	0.64
1:A:465:ILE:O	1:A:545:PRO:HB2	1.98	0.64
1:A:1128:ALA:CB	1:A:1136:VAL:HG13	2.27	0.64
1:B:322:TYR:CZ	1:B:324:ILE:CD1	2.81	0.64
1:B:464:GLU:HA	1:B:543:ARG:NH2	2.12	0.64
1:B:750:LEU:O	1:B:753:LEU:HB3	1.98	0.64
1:B:834:GLN:O	1:B:837:ALA:HB3	1.97	0.64
1:B:853:LEU:HD22	1:B:853:LEU:N	2.12	0.64
1:B:1192:ILE:HD13	1:B:1193:LEU:N	2.12	0.64
1:A:913:GLU:HA	1:A:916:TYR:HD2	1.62	0.63
1:A:1184:ARG:O	1:A:1187:VAL:HG12	1.98	0.63
1:B:59:ILE:CD1	1:B:124:VAL:HG11	2.28	0.63
1:B:458:ASN:HD22	1:B:459:VAL:H	1.46	0.63
1:A:478:THR:CG2	1:A:482:GLU:HG3	2.28	0.63
1:A:762:SER:HA	1:A:765:THR:CG2	2.29	0.63
1:A:795:GLN:HE21	1:A:796:ASP:N	1.96	0.63
1:A:879:ALA:O	1:A:883:LYS:HG2	1.98	0.63
1:A:891:LYS:O	1:A:894:THR:HB	1.98	0.63
1:B:212:LEU:HA	1:B:215:LEU:CG	2.28	0.63
1:B:239:GLU:HB3	1:B:285:ILE:CG1	2.28	0.63
1:B:564:VAL:O	1:B:567:ALA:HB3	1.99	0.63
1:B:891:LYS:O	1:B:894:THR:HB	1.99	0.63
1:B:910:GLN:O	1:B:911:LYS:C	2.37	0.63
1:A:478:THR:HG21	1:A:482:GLU:HG3	1.80	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:133:CYS:SG	1:B:931:ALA:HA	2.39	0.63
1:A:212:LEU:HD12	1:A:215:LEU:HB2	1.80	0.63
1:A:267:LYS:HG2	1:A:793:LEU:HG	1.79	0.63
1:B:263:PHE:CE1	1:B:1129:TYR:HB3	2.32	0.63
1:B:548:LEU:C	1:B:549:LEU:HD12	2.19	0.63
1:A:239:GLU:HB3	1:A:285:ILE:CG1	2.28	0.63
1:A:458:ASN:HD22	1:A:459:VAL:H	1.47	0.63
1:A:471:GLN:O	1:A:473:PRO:HD3	1.98	0.63
1:A:492:THR:HG22	1:A:494:ASP:H	1.63	0.63
1:A:933:VAL:O	1:A:936:ILE:HG22	1.99	0.63
1:A:1014:ILE:O	1:A:1014:ILE:HD12	1.98	0.63
1:B:341:VAL:O	1:B:344:ALA:HB3	1.99	0.63
1:B:933:VAL:O	1:B:936:ILE:HG22	1.98	0.63
1:A:908:ARG:O	1:A:909:GLU:C	2.34	0.63
1:B:35:VAL:HG21	1:B:355:ARG:HH21	1.60	0.63
1:B:43:GLY:HA3	1:B:46:ASP:HB2	1.80	0.63
1:B:1092:LEU:HD13	1:B:1100:LEU:HD21	1.81	0.63
1:A:164:VAL:O	1:A:164:VAL:CG1	2.47	0.63
1:A:187:GLY:O	1:A:190:PHE:HB3	1.98	0.63
1:A:762:SER:CA	1:A:765:THR:HG22	2.28	0.63
1:B:296:GLY:O	1:B:300:LEU:HG	1.97	0.63
1:B:1102:VAL:HG13	1:B:1103:GLN:N	2.14	0.63
1:B:1199:THR:CG2	1:B:1210:VAL:HG11	2.28	0.63
1:A:107:MET:HA	1:A:110:TYR:HD2	1.62	0.63
1:A:172:THR:O	1:A:175:VAL:HG12	1.99	0.63
1:A:296:GLY:O	1:A:300:LEU:HG	1.99	0.63
1:A:855:LEU:O	1:A:858:LEU:HG	1.99	0.63
1:A:1036:VAL:HB	1:A:1052:LEU:CB	2.24	0.63
1:B:147:PHE:O	1:B:151:ILE:HG13	1.99	0.63
1:B:204:PHE:HA	1:B:211:THR:HG21	1.80	0.63
1:B:282:ARG:O	1:B:286:LYS:HD3	1.99	0.63
1:B:462:LEU:O	1:B:466:ILE:HD13	1.99	0.63
1:B:339:PHE:CD1	2:B:6003:2J8:SE3	3.02	0.63
1:B:785:ARG:HH21	1:B:815:ALA:HA	1.63	0.63
1:B:1106:ARG:O	1:B:1109:LEU:HD22	1.99	0.63
1:A:58:ILE:H	1:A:58:ILE:HD12	1.64	0.62
1:A:374:PHE:CE2	1:A:376:LYS:HB3	2.34	0.62
1:A:540:ALA:O	1:A:543:ARG:HB3	1.98	0.62
1:B:59:ILE:CG1	1:B:124:VAL:HG11	2.29	0.62
1:B:195:THR:CB	1:B:340:SER:HB2	2.18	0.62
1:B:217:ILE:HD11	1:B:331:PHE:HE2	1.64	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:471:GLN:HA	1:B:553:ALA:HA	1.79	0.62
1:B:722:PRO:HG2	1:B:841:THR:CB	2.29	0.62
1:B:943:ALA:O	1:B:947:PHE:HB2	1.99	0.62
1:A:214:ILE:HG12	1:A:331:PHE:CZ	2.34	0.62
1:A:315:SER:HA	1:A:747:ASN:ND2	2.14	0.62
1:A:943:ALA:O	1:A:947:PHE:HB2	1.99	0.62
1:A:1005:ILE:O	1:A:1008:ILE:HG22	1.99	0.62
1:A:1063:ALA:HB2	1:A:1236:ALA:HB1	1.80	0.62
1:B:318:ILE:CD1	1:B:327:VAL:HG13	2.29	0.62
1:B:894:THR:O	1:B:897:ILE:HG13	1.99	0.62
1:A:769:GLN:HG3	1:A:773:PHE:HE2	1.63	0.62
1:A:785:ARG:HH21	1:A:815:ALA:HA	1.64	0.62
1:A:1095:LYS:H	1:A:1095:LYS:HD2	1.64	0.62
1:B:864:ILE:HD12	1:B:865:ALA:N	2.14	0.62
1:A:548:LEU:HD23	1:A:549:LEU:N	2.14	0.62
1:A:1109:LEU:O	1:A:1109:LEU:HD23	1.99	0.62
1:B:123:ILE:O	1:B:127:ILE:HG12	2.00	0.62
1:B:858:LEU:HD12	1:B:859:ALA:N	2.14	0.62
1:A:59:ILE:CG1	1:A:124:VAL:HG11	2.29	0.62
1:A:310:PHE:CE2	1:A:331:PHE:HB3	2.35	0.62
1:A:462:LEU:HD12	1:A:466:ILE:HD13	1.80	0.62
1:A:894:THR:O	1:A:897:ILE:HG13	1.99	0.62
1:A:1097:ILE:HG23	1:A:1105:LEU:HD22	1.81	0.62
1:A:1261:GLY:H	1:A:1264:PHE:CB	2.11	0.62
1:B:221:LEU:HD11	1:B:309:ALA:HB3	1.79	0.62
1:B:1011:THR:N	1:B:1012:PRO:CD	2.56	0.62
1:B:1097:ILE:HG23	1:B:1105:LEU:HD22	1.82	0.62
1:A:76:ASP:OD1	1:A:326:GLN:HB2	1.99	0.62
1:A:144:ARG:NH1	1:A:175:VAL:HG11	2.15	0.62
1:A:155:GLU:CB	1:A:156:ILE:HD12	2.30	0.62
1:A:286:LYS:O	1:A:290:THR:HG23	1.99	0.62
1:A:359:TYR:HA	1:A:362:PHE:HB3	1.80	0.62
1:A:933:VAL:O	1:A:934:PHE:C	2.38	0.62
1:A:1102:VAL:HG13	1:A:1103:GLN:N	2.14	0.62
1:B:304:ALA:CB	1:B:758:LEU:HD23	2.29	0.62
1:B:549:LEU:HD12	1:B:549:LEU:N	2.13	0.62
1:B:1026:MET:HG3	1:B:1026:MET:O	1.99	0.62
1:A:175:VAL:HG13	1:A:176:SER:H	1.64	0.62
1:A:1144:ALA:HA	1:A:1186:LEU:CD1	2.23	0.62
1:A:1192:ILE:HD13	1:A:1193:LEU:N	2.15	0.62
1:B:441:ASP:CG	1:B:442:PRO:HD2	2.20	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:750:LEU:O	1:A:753:LEU:HB3	1.99	0.62
1:A:864:ILE:HD12	1:A:865:ALA:N	2.14	0.62
1:A:1129:TYR:CD2	1:A:1184:ARG:HG3	2.35	0.62
1:B:419:VAL:O	1:B:579:ILE:HA	1.99	0.62
1:B:502:GLU:OE1	1:B:541:LEU:HD11	2.00	0.62
1:A:502:GLU:OE1	1:A:541:LEU:HD11	2.00	0.62
1:A:548:LEU:C	1:A:549:LEU:HD12	2.19	0.62
1:A:910:GLN:O	1:A:911:LYS:C	2.38	0.62
1:A:1218:ARG:HH22	1:A:1235:ASN:ND2	1.90	0.62
1:B:144:ARG:NH1	1:B:175:VAL:HG11	2.15	0.62
1:B:411:LEU:HD23	1:B:412:LYS:N	2.15	0.62
1:B:462:LEU:HD12	1:B:466:ILE:HD13	1.80	0.62
1:B:585:LEU:O	1:B:588:VAL:HB	1.99	0.62
1:B:900:PHE:O	1:B:903:VAL:HG12	1.99	0.62
1:A:123:ILE:O	1:A:127:ILE:HG12	1.99	0.62
1:A:221:LEU:HD11	1:A:309:ALA:HB3	1.81	0.62
1:A:257:ILE:HG21	1:A:800:PHE:HB3	1.81	0.62
1:A:298:ALA:O	1:A:302:ILE:HG13	1.99	0.62
1:A:429:LYS:H	1:A:429:LYS:CD	2.09	0.62
1:A:978:VAL:CG2	2:A:6001:2J8:H29	2.30	0.62
1:A:992:PRO:C	1:A:994:TYR:H	2.03	0.62
1:B:548:LEU:HD23	1:B:549:LEU:N	2.13	0.62
1:B:559:THR:O	1:B:562:GLU:HB3	2.00	0.62
1:B:971:LEU:O	1:B:974:PHE:HB3	1.99	0.62
1:B:1063:ALA:HB2	1:B:1236:ALA:CB	2.30	0.62
1:A:254:LEU:HD22	1:A:254:LEU:H	1.64	0.61
1:A:360:GLU:HA	1:A:363:LYS:CE	2.29	0.61
1:A:379:HIS:HB3	1:A:457:ILE:HA	1.80	0.61
1:A:441:ASP:CG	1:A:442:PRO:HD2	2.21	0.61
1:A:883:LYS:HD3	1:A:886:LEU:HD21	1.82	0.61
1:A:902:THR:O	1:A:904:VAL:N	2.33	0.61
1:A:959:LEU:HD22	1:A:964:LEU:HG	1.81	0.61
1:B:254:LEU:HD22	1:B:254:LEU:H	1.63	0.61
1:B:589:ARG:C	1:B:591:ALA:H	2.02	0.61
1:B:904:VAL:HG13	1:B:905:SER:N	2.15	0.61
1:B:996:LYS:H	1:B:996:LYS:CD	2.08	0.61
1:B:1150:ILE:O	1:B:1154:ILE:HG13	2.00	0.61
1:A:341:VAL:O	1:A:344:ALA:HB3	2.00	0.61
1:B:339:PHE:CG	2:B:6003:2J8:SE3	3.03	0.61
1:A:1058:LYS:O	1:A:1060:GLN:HG3	2.00	0.61
1:A:1260:LYS:HD2	1:A:1260:LYS:N	2.16	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:365:ILE:HG22	1:A:366:ASP:N	2.15	0.61
1:A:858:LEU:HD12	1:A:859:ALA:N	2.15	0.61
1:A:1063:ALA:HB2	1:A:1236:ALA:CB	2.30	0.61
1:A:1092:LEU:HD13	1:A:1100:LEU:HD21	1.81	0.61
1:B:172:THR:O	1:B:175:VAL:HG12	2.00	0.61
1:B:795:GLN:HE21	1:B:796:ASP:N	1.98	0.61
1:B:1001:ALA:O	1:B:1005:ILE:HG13	2.00	0.61
1:B:1260:LYS:HD2	1:B:1260:LYS:N	2.15	0.61
1:A:810:LEU:O	1:A:813:ARG:HB2	1.99	0.61
1:A:1205:GLU:HA	1:A:1208:LYS:HB3	1.81	0.61
1:A:1252:THR:HG23	1:A:1255:GLN:HB2	1.82	0.61
1:B:267:LYS:HA	1:B:270:LEU:HD11	1.83	0.61
1:B:292:ASN:CA	1:B:295:MET:HB2	2.29	0.61
1:B:388:LEU:HD13	1:B:413:VAL:HG13	1.81	0.61
1:B:691:ALA:HA	1:B:1002:SER:HG	1.65	0.61
1:B:1095:LYS:H	1:B:1095:LYS:HD2	1.64	0.61
1:A:515:GLN:HE21	1:B:138:ARG:NH2	1.98	0.61
1:A:722:PRO:HA	1:A:979:PHE:CZ	2.35	0.61
1:A:927:ALA:HA	1:A:930:LYS:CE	2.30	0.61
1:B:509:ILE:HD12	1:B:510:MET:N	2.15	0.61
1:B:1129:TYR:CD2	1:B:1184:ARG:HG3	2.35	0.61
1:A:39:PHE:HE2	1:A:358:ALA:HB3	1.65	0.61
1:B:982:MET:HA	2:B:6003:2J8:H32	1.83	0.61
1:A:265:GLY:CA	1:A:793:LEU:HD21	2.31	0.61
1:A:720:LEU:O	1:A:723:ALA:HB3	2.00	0.61
1:A:845:ILE:HA	1:A:848:ILE:HG22	1.81	0.61
1:A:857:LEU:HG	1:A:977:ILE:HD11	1.83	0.61
1:A:1090:VAL:HG13	1:A:1097:ILE:CB	2.25	0.61
1:B:810:LEU:O	1:B:813:ARG:HB2	2.00	0.61
1:B:1042:THR:C	1:B:1044:PRO:HD2	2.21	0.61
1:B:1113:SER:HA	1:B:1196:ASP:HB3	1.83	0.61
1:A:773:PHE:CD1	1:A:774:GLY:N	2.68	0.61
1:A:1023:LYS:NZ	1:A:1023:LYS:HB3	2.16	0.61
1:A:1202:LEU:CG	1:A:1203:ASP:H	2.11	0.61
1:A:1248:LYS:HG2	1:A:1262:ILE:HD12	1.83	0.61
1:B:883:LYS:HD3	1:B:886:LEU:HD21	1.82	0.61
1:A:303:TYR:CZ	2:A:6001:2J8:SE1	3.04	0.61
1:A:509:ILE:HD12	1:A:510:MET:N	2.15	0.61
1:A:766:PHE:HA	1:A:769:GLN:NE2	2.06	0.61
1:B:170:ARG:HB2	1:B:174:ASP:OD1	2.01	0.61
1:B:212:LEU:HD12	1:B:215:LEU:HB2	1.82	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:720:LEU:HD11	1:B:758:LEU:HA	1.83	0.61
1:A:756:LEU:HD12	1:A:757:ILE:HG12	1.83	0.60
1:B:168:ASN:O	1:B:171:LEU:HB3	2.01	0.60
1:B:1252:THR:HG23	1:B:1255:GLN:HB2	1.82	0.60
1:A:170:ARG:HB2	1:A:174:ASP:OD1	2.00	0.60
1:A:1042:THR:C	1:A:1044:PRO:HD2	2.22	0.60
1:B:382:ASP:HA	1:B:461:TYR:OH	2.01	0.60
1:B:959:LEU:HD22	1:B:964:LEU:CB	2.25	0.60
1:B:1005:ILE:O	1:B:1008:ILE:HG22	2.01	0.60
1:A:797:VAL:HG21	1:A:1013:GLU:CG	2.26	0.60
1:B:360:GLU:HA	1:B:363:LYS:CE	2.30	0.60
1:B:773:PHE:CD1	1:B:774:GLY:N	2.68	0.60
1:B:1048:VAL:O	1:B:1049:LEU:HD22	2.02	0.60
1:A:318:ILE:HD13	1:A:327:VAL:HG13	1.83	0.60
1:A:464:GLU:HA	1:A:543:ARG:NH2	2.16	0.60
1:B:257:ILE:C	1:B:257:ILE:HD13	2.21	0.60
1:B:689:PRO:N	1:B:690:PRO:HD2	2.17	0.60
1:B:711:ILE:HG13	1:B:715:ILE:HD11	1.83	0.60
1:B:855:LEU:O	1:B:858:LEU:HG	2.02	0.60
1:A:1043:ARG:N	1:A:1044:PRO:HD2	2.17	0.60
1:B:471:GLN:O	1:B:473:PRO:HD3	2.00	0.60
1:B:722:PRO:HA	1:B:979:PHE:CZ	2.36	0.60
1:A:384:ILE:HG22	1:A:385:GLN:N	2.05	0.60
1:A:971:LEU:O	1:A:974:PHE:HB3	2.01	0.60
1:A:1176:GLN:O	1:A:1180:ILE:HG13	2.01	0.60
1:B:379:HIS:HB2	1:B:456:THR:O	2.01	0.60
1:B:720:LEU:O	1:B:723:ALA:HB3	2.00	0.60
1:B:927:ALA:HA	1:B:930:LYS:CE	2.31	0.60
1:A:374:PHE:CE2	1:A:376:LYS:CB	2.84	0.60
1:A:411:LEU:HD23	1:A:412:LYS:N	2.17	0.60
1:A:711:ILE:HG13	1:A:715:ILE:HD11	1.83	0.60
1:A:727:ILE:HD12	1:A:754:LEU:CA	2.32	0.60
1:A:853:LEU:H	1:A:853:LEU:CD2	1.96	0.60
1:B:358:ALA:O	1:B:362:PHE:HB2	2.01	0.60
1:B:365:ILE:HG22	1:B:366:ASP:N	2.17	0.60
1:B:507:ASP:O	1:B:510:MET:N	2.35	0.60
1:B:762:SER:HA	1:B:765:THR:CG2	2.29	0.60
1:B:827:SER:O	1:B:831:VAL:HG23	2.01	0.60
1:B:1063:ALA:HB3	1:B:1239:ILE:CA	2.24	0.60
1:B:1150:ILE:HB	1:B:1179:ARG:HB3	1.83	0.60
1:A:905:SER:O	1:A:907:THR:N	2.35	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:430:SER:O	1:B:434:GLN:HG3	2.02	0.60
1:B:540:ALA:O	1:B:543:ARG:HB3	2.01	0.60
1:A:465:ILE:C	1:A:466:ILE:HD12	2.22	0.60
1:A:797:VAL:HG12	1:A:798:SER:N	2.16	0.60
1:A:883:LYS:HA	1:A:886:LEU:CG	2.32	0.60
1:B:902:THR:O	1:B:904:VAL:N	2.35	0.60
1:B:1023:LYS:O	1:B:1025:ASN:N	2.35	0.60
1:B:978:VAL:O	1:B:981:ALA:HB3	2.02	0.60
1:A:136:ALA:HB2	1:A:182:ILE:CB	2.32	0.59
1:A:692:SER:HB2	1:A:695:ARG:HB3	1.84	0.59
1:A:1178:GLN:O	1:A:1182:ILE:HG12	2.02	0.59
1:B:155:GLU:CB	1:B:156:ILE:HD12	2.30	0.59
1:B:465:ILE:C	1:B:466:ILE:HD12	2.22	0.59
1:B:492:THR:HG22	1:B:494:ASP:H	1.66	0.59
1:B:861:VAL:HB	1:B:862:PRO:CD	2.32	0.59
1:A:245:LYS:HA	1:A:245:LYS:HZ1	1.67	0.59
1:A:322:TYR:CZ	1:A:324:ILE:HD12	2.38	0.59
1:A:388:LEU:N	1:A:388:LEU:HD12	2.17	0.59
1:A:713:CYS:O	1:A:716:ILE:HG12	2.02	0.59
1:A:722:PRO:CG	1:A:841:THR:HB	2.31	0.59
1:A:861:VAL:HB	1:A:862:PRO:CD	2.32	0.59
1:A:1150:ILE:HB	1:A:1179:ARG:HB3	1.82	0.59
1:B:39:PHE:HE2	1:B:358:ALA:HB3	1.65	0.59
1:B:175:VAL:HG13	1:B:176:SER:H	1.68	0.59
1:B:279:GLU:HG2	1:B:782:LYS:HZ2	1.66	0.59
1:B:321:GLU:HG3	1:B:322:TYR:N	2.17	0.59
1:B:1133:SER:O	1:B:1135:VAL:N	2.35	0.59
1:A:147:PHE:O	1:A:151:ILE:HG13	2.01	0.59
1:A:437:GLN:NE2	1:A:468:VAL:HG21	2.17	0.59
1:A:703:GLU:HB3	1:A:780:LEU:HD23	1.84	0.59
1:A:1062:LEU:HD12	1:A:1224:ILE:HG23	1.85	0.59
1:B:211:THR:O	1:B:214:ILE:HB	2.02	0.59
1:B:554:THR:OG1	1:B:562:GLU:HG3	2.03	0.59
1:A:251:GLU:OE1	1:A:811:THR:HB	2.02	0.59
1:A:267:LYS:HA	1:A:270:LEU:HD21	1.83	0.59
1:A:297:ALA:HB1	1:A:763:PHE:CD2	2.38	0.59
1:A:559:THR:O	1:A:562:GLU:HB3	2.01	0.59
1:A:827:SER:O	1:A:828:ARG:C	2.41	0.59
1:A:1048:VAL:O	1:A:1049:LEU:HD22	2.01	0.59
1:A:1113:SER:HA	1:A:1196:ASP:HB3	1.83	0.59
1:B:267:LYS:HB3	1:B:790:LYS:CE	2.30	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:401:LYS:HD2	1:B:401:LYS:N	2.15	0.59
1:B:552:GLU:O	1:B:555:SER:N	2.33	0.59
1:B:847:LEU:C	1:B:849:TYR:H	2.04	0.59
1:B:850:GLY:O	1:B:852:GLN:N	2.35	0.59
1:A:818:ALA:O	1:A:821:VAL:HG22	2.03	0.59
1:A:894:THR:O	1:A:895:GLU:C	2.41	0.59
1:B:245:LYS:HZ1	1:B:245:LYS:HA	1.66	0.59
1:B:1020:GLN:HB3	1:B:1101:ASN:CB	2.32	0.59
1:B:1058:LYS:O	1:B:1060:GLN:HG3	2.02	0.59
1:A:324:ILE:HG13	1:A:326:GLN:N	2.17	0.59
1:A:773:PHE:O	1:A:776:ALA:HB3	2.02	0.59
1:A:784:LEU:HG	1:A:821:VAL:HG21	1.84	0.59
1:A:1189:GLN:N	1:A:1190:PRO:HD3	2.18	0.59
1:B:310:PHE:CZ	1:B:331:PHE:HB3	2.38	0.59
1:B:437:GLN:NE2	1:B:468:VAL:HG21	2.17	0.59
1:B:784:LEU:HG	1:B:821:VAL:HG21	1.84	0.59
1:B:1020:GLN:HB3	1:B:1101:ASN:HB2	1.85	0.59
1:B:1189:GLN:N	1:B:1190:PRO:HD3	2.18	0.59
1:B:1218:ARG:HH22	1:B:1235:ASN:ND2	1.90	0.59
1:A:324:ILE:HG13	1:A:326:GLN:CA	2.33	0.59
1:B:207:GLY:O	1:B:209:LYS:N	2.33	0.59
1:B:212:LEU:O	1:B:215:LEU:N	2.36	0.59
1:B:238:LYS:O	1:B:238:LYS:HD3	2.03	0.59
1:B:491:VAL:HG21	1:B:496:ILE:HD11	1.85	0.59
1:B:756:LEU:HD12	1:B:757:ILE:HG12	1.85	0.59
1:A:211:THR:O	1:A:214:ILE:HB	2.03	0.59
1:A:611:LEU:O	1:A:614:GLU:HB3	2.03	0.59
1:B:317:VAL:O	1:B:317:VAL:HG12	2.03	0.59
1:B:374:PHE:HD1	1:B:375:SER:N	2.01	0.59
1:B:1043:ARG:N	1:B:1044:PRO:HD2	2.17	0.59
1:A:65:PRO:O	1:A:68:MET:N	2.36	0.59
1:A:168:ASN:O	1:A:171:LEU:HB3	2.01	0.59
1:A:297:ALA:HB1	1:A:763:PHE:HA	1.85	0.59
1:A:491:VAL:HG21	1:A:496:ILE:HD11	1.85	0.59
1:B:856:LEU:HD21	1:B:952:CYS:HA	1.85	0.59
1:B:1109:LEU:HD23	1:B:1109:LEU:O	2.03	0.59
1:A:49:TYR:HH	1:A:130:SER:HB2	1.66	0.59
1:A:904:VAL:HG13	1:A:905:SER:N	2.17	0.59
1:A:1109:LEU:HD21	1:A:1188:ARG:HH11	1.68	0.59
1:B:313:GLY:O	1:B:317:VAL:HG23	2.03	0.59
1:B:473:PRO:HB3	1:B:533:GLN:HA	1.85	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:603:VAL:HG23	1:B:604:GLU:N	2.14	0.59
1:B:611:LEU:O	1:B:614:GLU:HB3	2.03	0.59
1:B:690:PRO:HG2	1:B:1006:ARG:CZ	2.32	0.59
1:A:118:GLY:O	1:A:119:ALA:C	2.42	0.58
1:A:405:ILE:HD12	1:A:427:CYS:HB3	1.85	0.58
1:B:223:LEU:O	1:B:227:ILE:HG13	2.04	0.58
1:B:722:PRO:HG2	1:B:841:THR:OG1	2.03	0.58
1:B:933:VAL:O	1:B:934:PHE:C	2.39	0.58
1:B:1020:GLN:CG	1:B:1021:GLY:N	2.66	0.58
1:A:358:ALA:O	1:A:362:PHE:HB2	2.02	0.58
1:A:721:GLN:HG3	1:A:979:PHE:HE1	1.67	0.58
1:A:1022:LEU:CD2	1:A:1022:LEU:O	2.51	0.58
1:B:53:GLY:O	1:B:56:ALA:HB3	2.02	0.58
1:B:813:ARG:HA	1:B:817:ASP:OD2	2.02	0.58
1:A:114:TYR:CB	1:A:950:ALA:HB2	2.33	0.58
1:A:209:LYS:O	1:A:212:LEU:HB3	2.04	0.58
1:A:345:SER:HB3	1:A:346:PRO:HD3	1.85	0.58
1:A:756:LEU:CD1	1:A:757:ILE:HG12	2.34	0.58
1:A:960:VAL:CG1	1:A:966:THR:OG1	2.51	0.58
1:B:837:ALA:HB1	1:B:982:MET:HE1	1.83	0.58
1:B:930:LYS:O	1:B:933:VAL:HB	2.03	0.58
1:A:186:ILE:HG13	1:A:187:GLY:H	1.68	0.58
1:A:214:ILE:HG12	1:A:331:PHE:CD1	2.39	0.58
1:B:110:TYR:HA	1:B:113:TYR:CD2	2.35	0.58
1:B:548:LEU:HD22	1:B:550:LEU:HD11	1.85	0.58
1:B:986:GLN:NE2	2:B:6003:2J8:H31	2.17	0.58
1:B:1090:VAL:HG13	1:B:1097:ILE:CB	2.25	0.58
1:B:1195:LEU:N	1:B:1195:LEU:HD12	2.18	0.58
1:B:1221:ARG:N	1:B:1221:ARG:HD2	2.19	0.58
1:A:548:LEU:HD22	1:A:550:LEU:HD11	1.85	0.58
1:A:611:LEU:HB3	1:A:618:TYR:HB3	1.86	0.58
1:A:722:PRO:HG2	1:A:841:THR:OG1	2.02	0.58
1:B:65:PRO:O	1:B:68:MET:N	2.36	0.58
1:B:136:ALA:HB2	1:B:182:ILE:CB	2.32	0.58
1:B:1248:LYS:HG2	1:B:1262:ILE:HD12	1.84	0.58
1:A:491:VAL:HG21	1:A:496:ILE:CD1	2.33	0.58
1:B:286:LYS:O	1:B:290:THR:HG23	2.02	0.58
1:B:713:CYS:O	1:B:716:ILE:HG12	2.02	0.58
1:B:806:THR:HG23	1:B:809:ALA:H	1.69	0.58
1:A:72:GLY:HA2	1:A:326:GLN:HE21	1.66	0.58
1:A:103:LEU:HB2	1:A:960:VAL:CG2	2.34	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:207:GLY:HA3	1:A:211:THR:CB	2.34	0.58
1:A:210:LEU:O	1:A:214:ILE:HG13	2.03	0.58
1:A:251:GLU:O	1:A:254:LEU:HD11	2.04	0.58
1:A:286:LYS:NZ	1:A:822:LYS:HZ2	2.02	0.58
1:A:554:THR:OG1	1:A:562:GLU:HG3	2.04	0.58
1:A:897:ILE:CG1	1:A:898:GLU:H	2.11	0.58
1:B:210:LEU:O	1:B:214:ILE:HG13	2.04	0.58
1:B:818:ALA:O	1:B:821:VAL:HG22	2.04	0.58
1:A:1221:ARG:HD2	1:A:1221:ARG:N	2.19	0.58
1:B:158:TRP:HZ2	1:B:900:PHE:HB2	1.66	0.58
1:B:314:THR:O	1:B:318:ILE:HG22	2.03	0.58
1:B:703:GLU:HB3	1:B:780:LEU:HD23	1.84	0.58
1:B:992:PRO:HB2	1:B:996:LYS:HZ3	1.67	0.58
1:B:1062:LEU:HD12	1:B:1224:ILE:HG23	1.85	0.58
1:B:1081:ARG:NH2	1:B:1098:LYS:O	2.37	0.58
1:B:1176:GLN:O	1:B:1180:ILE:HG13	2.04	0.58
1:A:212:LEU:O	1:A:215:LEU:N	2.37	0.58
1:A:284:GLY:O	1:A:287:LYS:HB3	2.04	0.58
1:A:720:LEU:HD11	1:A:758:LEU:HA	1.85	0.58
1:A:722:PRO:HG2	1:A:841:THR:HB	1.85	0.58
1:A:847:LEU:C	1:A:849:TYR:H	2.05	0.58
1:A:1012:PRO:O	1:A:1013:GLU:CB	2.51	0.58
1:A:1141:ILE:O	1:A:1144:ALA:HB3	2.04	0.58
1:A:1195:LEU:HD12	1:A:1195:LEU:N	2.18	0.58
1:B:56:ALA:O	1:B:59:ILE:HG13	2.04	0.58
1:B:186:ILE:HG13	1:B:187:GLY:H	1.69	0.58
1:B:199:GLY:O	1:B:203:GLY:HA3	2.04	0.58
1:B:374:PHE:HD1	1:B:376:LYS:H	1.50	0.58
1:B:594:ILE:O	1:B:605:GLN:HA	2.04	0.58
1:B:970:VAL:HA	1:B:973:VAL:HG23	1.86	0.58
1:A:603:VAL:HG23	1:A:604:GLU:N	2.15	0.58
1:A:780:LEU:O	1:A:784:LEU:HB2	2.04	0.58
1:B:491:VAL:HG21	1:B:496:ILE:CD1	2.33	0.58
1:B:1049:LEU:CD1	1:B:1052:LEU:HD22	2.33	0.58
1:A:59:ILE:HG12	1:A:124:VAL:HG11	1.86	0.57
1:A:497:GLU:O	1:A:500:VAL:HG22	2.04	0.57
1:A:856:LEU:HD21	1:A:952:CYS:HA	1.86	0.57
1:A:900:PHE:O	1:A:903:VAL:HG12	2.04	0.57
1:B:59:ILE:HG12	1:B:124:VAL:HG11	1.86	0.57
1:B:118:GLY:O	1:B:119:ALA:C	2.42	0.57
1:B:279:GLU:O	1:B:282:ARG:HB2	2.04	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:298:ALA:O	1:B:302:ILE:HG13	2.04	0.57
1:B:603:VAL:CG2	1:B:604:GLU:H	2.08	0.57
1:B:978:VAL:CG2	2:B:6003:2J8:H29	2.34	0.57
1:A:313:GLY:O	1:A:317:VAL:HG23	2.04	0.57
1:A:401:LYS:HD2	1:A:401:LYS:N	2.16	0.57
1:A:970:VAL:HA	1:A:973:VAL:HG23	1.85	0.57
1:A:1009:GLU:C	1:A:1010:LYS:HG3	2.23	0.57
1:A:1185:ALA:O	1:A:1190:PRO:HD3	2.04	0.57
1:B:158:TRP:HA	1:B:162:HIS:CD2	2.33	0.57
1:B:849:TYR:HD1	1:B:854:THR:CA	2.16	0.57
1:A:790:LYS:HB3	1:A:794:ARG:CZ	2.34	0.57
1:A:813:ARG:HA	1:A:817:ASP:OD2	2.03	0.57
1:A:827:SER:HG	1:A:994:TYR:HD2	1.52	0.57
1:B:209:LYS:C	1:B:212:LEU:HB3	2.25	0.57
1:B:371:ILE:C	1:B:373:SER:H	2.08	0.57
1:B:388:LEU:HD12	1:B:388:LEU:N	2.18	0.57
1:B:611:LEU:HD23	1:B:618:TYR:CB	2.34	0.57
1:B:883:LYS:HA	1:B:886:LEU:CG	2.33	0.57
1:B:921:GLN:HG2	1:B:922:ILE:HD12	1.86	0.57
1:B:1141:ILE:O	1:B:1144:ALA:HB3	2.05	0.57
1:A:210:LEU:HG	1:A:322:TYR:HD2	1.67	0.57
1:A:425:SER:HB3	1:A:599:GLY:HA3	1.86	0.57
1:A:1049:LEU:CD1	1:A:1052:LEU:HD22	2.33	0.57
1:B:251:GLU:O	1:B:254:LEU:HD11	2.03	0.57
1:B:263:PHE:HD1	1:B:1188:ARG:HH22	1.52	0.57
1:B:497:GLU:O	1:B:500:VAL:HG22	2.04	0.57
1:B:837:ALA:HB1	1:B:982:MET:CE	2.34	0.57
1:B:1032:GLN:HB2	1:B:1091:PHE:HB2	1.86	0.57
1:B:1109:LEU:HD21	1:B:1188:ARG:HH11	1.68	0.57
1:B:1137:SER:HB3	1:B:1140:GLU:HB2	1.85	0.57
1:A:861:VAL:HB	1:A:862:PRO:HD3	1.86	0.57
1:A:1127:ILE:O	1:A:1129:TYR:N	2.34	0.57
1:B:175:VAL:HA	1:B:178:ILE:HD12	1.87	0.57
1:B:693:PHE:CD2	1:B:693:PHE:N	2.71	0.57
1:B:788:VAL:O	1:B:791:SER:N	2.38	0.57
1:B:826:GLY:O	1:B:829:LEU:HB2	2.05	0.57
1:A:53:GLY:O	1:A:56:ALA:HB3	2.04	0.57
1:A:186:ILE:HG13	1:A:187:GLY:N	2.20	0.57
1:A:611:LEU:HD23	1:A:618:TYR:CB	2.34	0.57
1:A:1072:LYS:HB3	1:A:1226:ILE:HD13	1.87	0.57
1:A:1133:SER:O	1:A:1135:VAL:N	2.37	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:721:GLN:HG3	1:B:979:PHE:HE1	1.67	0.57
1:B:722:PRO:CG	1:B:841:THR:HB	2.34	0.57
1:B:731:VAL:HG22	1:B:750:LEU:CB	2.35	0.57
1:B:797:VAL:HG12	1:B:798:SER:N	2.14	0.57
1:B:921:GLN:HG2	1:B:922:ILE:N	2.20	0.57
1:A:144:ARG:HH12	1:A:175:VAL:HG11	1.70	0.57
1:A:175:VAL:HA	1:A:178:ILE:HD12	1.86	0.57
1:B:215:LEU:C	1:B:219:PRO:HD2	2.25	0.57
1:B:324:ILE:C	1:B:326:GLN:N	2.56	0.57
1:B:765:THR:HG23	1:B:766:PHE:N	2.19	0.57
1:B:1149:ASN:OD1	1:B:1209:VAL:HG22	2.05	0.57
1:B:1151:HIS:HA	1:B:1154:ILE:HG13	1.85	0.57
1:A:1092:LEU:HD13	1:A:1100:LEU:CD2	2.34	0.57
1:B:41:TYR:O	1:B:42:ALA:HB3	2.05	0.57
1:B:132:TRP:CD2	1:B:183:GLY:HA3	2.40	0.57
1:B:314:THR:O	1:B:315:SER:C	2.43	0.57
1:B:1014:ILE:HA	1:B:1102:VAL:HG11	1.87	0.57
1:A:56:ALA:O	1:A:59:ILE:HG13	2.04	0.57
1:A:238:LYS:O	1:A:238:LYS:HD3	2.03	0.57
1:A:324:ILE:C	1:A:326:GLN:N	2.56	0.57
1:A:371:ILE:O	1:A:371:ILE:HG22	2.05	0.57
1:A:583:HIS:O	1:A:585:LEU:HD22	2.04	0.57
1:A:612:MET:HA	1:A:619:PHE:HB2	1.86	0.57
1:A:1170:THR:O	1:A:1170:THR:HG22	2.04	0.57
1:B:43:GLY:CA	1:B:46:ASP:HB2	2.35	0.57
1:B:178:ILE:HG12	1:B:358:ALA:HB1	1.85	0.57
1:B:457:ILE:HD11	1:B:462:LEU:HD13	1.87	0.57
1:B:621:LEU:HD22	1:B:621:LEU:H	1.70	0.57
1:B:756:LEU:CD1	1:B:757:ILE:HG12	2.35	0.57
1:A:765:THR:HG23	1:A:766:PHE:N	2.20	0.57
1:A:853:LEU:O	1:A:854:THR:C	2.44	0.57
1:A:1137:SER:HB3	1:A:1140:GLU:HB2	1.85	0.57
1:A:1179:ARG:HH21	1:A:1209:VAL:CG1	2.13	0.57
1:B:64:LEU:HD11	1:B:945:MET:CE	2.35	0.57
1:B:118:GLY:O	1:B:121:VAL:N	2.37	0.57
1:B:324:ILE:HG13	1:B:326:GLN:CA	2.35	0.57
1:B:470:SER:HA	1:B:551:ASP:HB3	1.85	0.57
1:B:801:ASP:HB3	1:B:1083:TYR:CE2	2.40	0.57
1:B:1142:VAL:HA	1:B:1161:TYR:OH	2.05	0.57
1:B:1208:LYS:C	1:B:1208:LYS:HD3	2.25	0.57
1:A:157:GLY:HA2	1:A:160:ASP:OD2	2.05	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:178:ILE:HG12	1:A:358:ALA:HB1	1.84	0.56
1:A:457:ILE:HD11	1:A:462:LEU:HD13	1.87	0.56
1:A:621:LEU:H	1:A:621:LEU:HD22	1.70	0.56
1:A:806:THR:HG23	1:A:809:ALA:H	1.70	0.56
1:B:186:ILE:HG13	1:B:187:GLY:N	2.20	0.56
1:B:322:TYR:CE2	1:B:324:ILE:CD1	2.88	0.56
1:B:1129:TYR:O	1:B:1131:ASP:N	2.37	0.56
1:A:490:ASP:O	1:A:491:VAL:HB	2.05	0.56
1:A:992:PRO:O	1:A:994:TYR:N	2.37	0.56
1:A:1063:ALA:HB3	1:A:1239:ILE:CA	2.25	0.56
1:B:57:ALA:O	1:B:60:HIS:N	2.38	0.56
1:B:388:LEU:HB2	1:B:413:VAL:CG1	2.35	0.56
1:B:421:LEU:HD11	1:B:579:ILE:HD11	1.87	0.56
1:B:541:LEU:O	1:B:541:LEU:HD13	2.04	0.56
1:B:612:MET:HA	1:B:619:PHE:HB2	1.87	0.56
1:B:752:SER:O	1:B:755:PHE:HB3	2.05	0.56
1:B:777:GLY:CA	1:B:822:LYS:HG3	2.35	0.56
1:A:128:GLN:HG3	1:A:129:VAL:N	2.19	0.56
1:A:265:GLY:C	1:A:267:LYS:HG3	2.26	0.56
1:A:278:GLU:HA	1:A:282:ARG:CZ	2.35	0.56
1:A:473:PRO:HB3	1:A:533:GLN:HA	1.87	0.56
1:A:731:VAL:HG22	1:A:750:LEU:CB	2.34	0.56
1:A:837:ALA:HB1	1:A:982:MET:CE	2.36	0.56
1:A:1129:TYR:O	1:A:1131:ASP:N	2.39	0.56
1:A:1139:GLU:CD	1:A:1139:GLU:H	2.09	0.56
1:B:203:GLY:C	1:B:211:THR:OG1	2.43	0.56
1:B:212:LEU:CD1	1:B:215:LEU:HD12	2.34	0.56
1:B:284:GLY:O	1:B:287:LYS:HB3	2.05	0.56
1:B:358:ALA:O	1:B:362:PHE:CB	2.54	0.56
1:B:379:HIS:HD2	1:B:380:LYS:H	1.53	0.56
1:B:790:LYS:HB3	1:B:794:ARG:CZ	2.34	0.56
1:B:825:THR:O	1:B:829:LEU:HG	2.05	0.56
1:B:900:PHE:O	1:B:902:THR:N	2.26	0.56
1:B:1011:THR:N	1:B:1012:PRO:HD2	2.01	0.56
1:B:1092:LEU:HD13	1:B:1100:LEU:CD2	2.34	0.56
1:B:1099:GLN:HG2	1:B:1099:GLN:O	2.05	0.56
1:A:132:TRP:CD2	1:A:183:GLY:HA3	2.41	0.56
1:A:270:LEU:HD13	1:A:789:PHE:CZ	2.41	0.56
1:A:279:GLU:HG2	1:A:782:LYS:HZ2	1.69	0.56
1:A:317:VAL:HG12	1:A:317:VAL:O	2.05	0.56
1:A:706:TYR:CD1	1:A:706:TYR:C	2.78	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:902:THR:O	1:A:905:SER:N	2.35	0.56
1:B:265:GLY:C	1:B:267:LYS:HG3	2.26	0.56
1:B:611:LEU:HB3	1:B:618:TYR:HB3	1.88	0.56
1:A:199:GLY:O	1:A:203:GLY:HA3	2.05	0.56
1:A:267:LYS:CA	1:A:270:LEU:HD21	2.36	0.56
1:A:964:LEU:CD1	1:A:965:MET:H	2.16	0.56
1:A:1149:ASN:OD1	1:A:1209:VAL:HG22	2.05	0.56
1:A:1214:LEU:HD23	1:A:1218:ARG:HD3	1.87	0.56
1:B:101:ALA:O	1:B:105:GLU:HB2	2.04	0.56
1:B:129:VAL:HB	1:B:935:GLY:HA2	1.88	0.56
1:B:158:TRP:HE1	1:B:900:PHE:HB3	1.69	0.56
1:B:282:ARG:HB3	1:B:778:GLU:OE1	2.06	0.56
1:B:1185:ALA:O	1:B:1190:PRO:HD3	2.04	0.56
1:A:212:LEU:CD1	1:A:215:LEU:HD12	2.35	0.56
1:B:217:ILE:O	1:B:221:LEU:HG	2.05	0.56
1:B:253:VAL:C	1:B:254:LEU:HD13	2.26	0.56
1:B:425:SER:HB3	1:B:599:GLY:HA3	1.87	0.56
1:B:779:ILE:HG13	1:B:780:LEU:N	2.20	0.56
1:B:1072:LYS:HB3	1:B:1226:ILE:HD13	1.87	0.56
1:B:1140:GLU:O	1:B:1143:ARG:HB3	2.06	0.56
1:A:185:LYS:O	1:A:186:ILE:C	2.44	0.56
1:A:731:VAL:HA	1:A:750:LEU:HD13	1.87	0.56
1:A:752:SER:O	1:A:755:PHE:HB3	2.06	0.56
1:B:278:GLU:HA	1:B:282:ARG:CZ	2.36	0.56
1:B:383:ASN:O	1:B:384:ILE:C	2.44	0.56
1:B:1120:ASP:HA	1:B:1165:VAL:HG22	1.87	0.56
1:B:1214:LEU:HD23	1:B:1218:ARG:HD3	1.87	0.56
1:A:238:LYS:HD3	1:A:238:LYS:C	2.26	0.56
1:A:253:VAL:C	1:A:254:LEU:HD13	2.27	0.56
1:A:777:GLY:CA	1:A:822:LYS:HG3	2.35	0.56
1:B:861:VAL:HB	1:B:862:PRO:HD3	1.87	0.56
1:B:962:GLN:O	1:B:963:GLN:HB2	2.06	0.56
1:B:1027:LEU:HD23	1:B:1028:GLU:H	1.71	0.56
1:B:1139:GLU:H	1:B:1139:GLU:CD	2.09	0.56
1:B:1239:ILE:HD12	1:B:1239:ILE:N	2.20	0.56
1:A:153:ASN:HA	1:A:155:GLU:OE2	2.06	0.56
1:A:779:ILE:HG13	1:A:780:LEU:N	2.20	0.56
1:A:1124:ALA:HB2	1:A:1161:TYR:O	2.06	0.56
1:B:306:TYR:CD2	1:B:307:ALA:N	2.74	0.56
1:B:406:LEU:HD23	1:B:431:THR:HG21	1.86	0.56
1:B:490:ASP:O	1:B:491:VAL:HB	2.05	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:101:ALA:O	1:A:105:GLU:HB2	2.06	0.56
1:A:204:PHE:HA	1:A:211:THR:CG2	2.34	0.56
1:A:358:ALA:O	1:A:362:PHE:CB	2.54	0.56
1:A:857:LEU:CD1	1:A:976:ALA:HB3	2.36	0.56
1:A:1142:VAL:HA	1:A:1161:TYR:OH	2.06	0.56
1:B:214:ILE:HG12	1:B:331:PHE:CZ	2.40	0.56
1:B:311:TRP:HA	1:B:311:TRP:HE3	1.71	0.56
1:B:894:THR:O	1:B:895:GLU:C	2.45	0.56
1:B:1166:GLY:HA3	1:B:1171:GLN:OE1	2.05	0.56
1:B:1172:LEU:HD22	1:B:1176:GLN:HG2	1.88	0.56
1:A:138:ARG:HH22	1:B:515:GLN:HE21	1.53	0.55
1:A:421:LEU:HD11	1:A:579:ILE:HD11	1.88	0.55
1:A:482:GLU:O	1:A:483:ASN:C	2.45	0.55
1:A:749:ASN:C	1:A:749:ASN:HD22	2.10	0.55
1:A:862:PRO:O	1:A:866:ILE:HG12	2.06	0.55
1:B:121:VAL:CG2	1:B:122:LEU:N	2.69	0.55
1:B:959:LEU:HD13	1:B:964:LEU:HG	1.88	0.55
1:B:1170:THR:O	1:B:1170:THR:HG22	2.06	0.55
1:A:43:GLY:CA	1:A:46:ASP:HB2	2.37	0.55
1:A:288:ALA:HA	1:A:291:ALA:CB	2.37	0.55
1:A:288:ALA:CA	1:A:291:ALA:HB3	2.36	0.55
1:A:328:LEU:C	1:A:328:LEU:HD12	2.26	0.55
1:A:825:THR:O	1:A:829:LEU:HG	2.06	0.55
1:A:1099:GLN:O	1:A:1099:GLN:HG2	2.06	0.55
1:A:1120:ASP:HA	1:A:1165:VAL:HG22	1.86	0.55
1:A:1207:GLU:O	1:A:1211:GLN:HG2	2.06	0.55
1:B:67:MET:CE	1:B:117:ILE:HG21	2.34	0.55
1:B:72:GLY:HA2	1:B:326:GLN:HE21	1.68	0.55
1:B:128:GLN:HG3	1:B:129:VAL:N	2.21	0.55
1:B:207:GLY:CA	1:B:211:THR:H	2.19	0.55
1:B:345:SER:HB3	1:B:346:PRO:HD3	1.86	0.55
1:B:429:LYS:H	1:B:429:LYS:CD	2.07	0.55
1:A:322:TYR:CE2	1:A:324:ILE:CD1	2.89	0.55
1:A:788:VAL:O	1:A:791:SER:N	2.40	0.55
1:A:858:LEU:HD12	1:A:858:LEU:C	2.26	0.55
1:A:906:LEU:O	1:A:906:LEU:HD23	2.05	0.55
1:A:1145:ALA:HB1	1:A:1154:ILE:HD12	1.88	0.55
1:B:188:MET:HG3	1:B:348:ILE:CD1	2.35	0.55
1:B:201:ILE:HG22	1:B:202:ILE:N	2.21	0.55
1:B:845:ILE:HA	1:B:848:ILE:CG2	2.36	0.55
1:A:449:ILE:O	1:A:450:ASP:C	2.45	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:470:SER:HA	1:A:551:ASP:HB3	1.89	0.55
1:A:899:ASN:OD1	1:A:901:ARG:NH2	2.39	0.55
1:A:1193:LEU:HB2	1:A:1223:CYS:HB2	1.88	0.55
1:A:1199:THR:HG21	1:A:1210:VAL:HG11	1.88	0.55
1:B:459:VAL:O	1:B:462:LEU:HB3	2.06	0.55
1:A:133:CYS:O	1:A:135:ALA:N	2.39	0.55
1:A:188:MET:HG3	1:A:348:ILE:CD1	2.35	0.55
1:A:239:GLU:HG3	1:A:288:ALA:HB3	1.89	0.55
1:A:306:TYR:CD2	1:A:307:ALA:N	2.74	0.55
1:A:388:LEU:HB2	1:A:413:VAL:CG1	2.35	0.55
1:A:484:ILE:HG21	1:A:496:ILE:CD1	2.32	0.55
1:A:541:LEU:HD13	1:A:541:LEU:O	2.06	0.55
1:A:817:ASP:OD1	1:A:1000:SER:HB3	2.07	0.55
1:A:921:GLN:HG2	1:A:922:ILE:N	2.21	0.55
1:A:1032:GLN:HB2	1:A:1091:PHE:HB2	1.87	0.55
1:A:1137:SER:O	1:A:1141:ILE:HG23	2.06	0.55
1:B:59:ILE:HG13	1:B:60:HIS:N	2.22	0.55
1:B:106:GLU:HG3	1:B:110:TYR:CE2	2.42	0.55
1:B:144:ARG:HH12	1:B:175:VAL:HG11	1.70	0.55
1:B:1145:ALA:HB2	1:B:1154:ILE:HD12	1.88	0.55
1:B:154:GLN:HE21	1:B:157:GLY:HA3	1.71	0.55
1:B:238:LYS:HD3	1:B:238:LYS:C	2.27	0.55
1:B:902:THR:O	1:B:905:SER:N	2.36	0.55
1:A:201:ILE:HG22	1:A:202:ILE:N	2.20	0.55
1:A:379:HIS:O	1:A:381:PRO:HD3	2.07	0.55
1:A:461:TYR:O	1:A:465:ILE:HG12	2.06	0.55
1:A:1018:SER:O	1:A:1101:ASN:CB	2.46	0.55
1:B:211:THR:HA	1:B:214:ILE:CD1	2.37	0.55
1:B:311:TRP:HA	1:B:311:TRP:CE3	2.42	0.55
1:B:708:VAL:HG13	1:B:709:VAL:N	2.21	0.55
1:B:1229:ARG:C	1:B:1231:SER:N	2.59	0.55
1:A:214:ILE:CD1	1:A:330:VAL:HB	2.37	0.55
1:A:1229:ARG:C	1:A:1231:SER:N	2.59	0.55
1:B:899:ASN:OD1	1:B:901:ARG:NH2	2.39	0.55
1:B:1056:VAL:CG2	1:B:1062:LEU:HB2	2.37	0.55
1:A:67:MET:CE	1:A:117:ILE:HG21	2.34	0.55
1:A:121:VAL:CG2	1:A:122:LEU:N	2.70	0.55
1:A:731:VAL:HA	1:A:750:LEU:CD1	2.36	0.55
1:A:1172:LEU:HD22	1:A:1176:GLN:HG2	1.89	0.55
1:B:409:LEU:HD21	1:B:602:ILE:HB	1.88	0.55
1:B:543:ARG:NH2	1:B:905:SER:O	2.40	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:713:CYS:SG	1:B:768:LEU:HD11	2.47	0.55
1:B:847:LEU:C	1:B:849:TYR:N	2.60	0.55
1:B:849:TYR:CB	1:B:854:THR:OG1	2.55	0.55
1:B:902:THR:HG23	1:B:903:VAL:H	1.72	0.55
1:A:311:TRP:CE3	1:A:311:TRP:HA	2.42	0.55
1:A:546:LYS:O	1:A:577:THR:HG23	2.06	0.55
1:A:856:LEU:O	1:A:859:ALA:HB3	2.07	0.55
1:A:1059:GLY:HA2	1:A:1221:ARG:C	2.27	0.55
1:B:328:LEU:O	1:B:332:PHE:HB3	2.07	0.55
1:B:566:GLN:HA	1:B:569:LEU:HD12	1.89	0.55
1:B:688:VAL:HG23	1:B:688:VAL:O	2.06	0.55
1:B:722:PRO:HG2	1:B:841:THR:HB	1.87	0.55
1:B:862:PRO:O	1:B:866:ILE:HG12	2.07	0.55
1:B:992:PRO:C	1:B:994:TYR:H	2.11	0.55
1:A:33:VAL:O	1:A:34:SER:C	2.45	0.54
1:A:35:VAL:HG12	1:A:359:TYR:CZ	2.42	0.54
1:A:245:LYS:HA	1:A:245:LYS:NZ	2.21	0.54
1:A:286:LYS:HE3	1:A:822:LYS:NZ	2.22	0.54
1:A:374:PHE:HE2	1:A:376:LYS:CB	2.20	0.54
1:A:930:LYS:O	1:A:933:VAL:HB	2.07	0.54
1:A:994:TYR:O	1:A:994:TYR:HD1	1.90	0.54
1:B:171:LEU:HD13	1:B:172:THR:N	2.21	0.54
1:B:727:ILE:HD12	1:B:754:LEU:CA	2.37	0.54
1:B:858:LEU:HD12	1:B:858:LEU:C	2.27	0.54
1:A:171:LEU:HD13	1:A:172:THR:N	2.21	0.54
1:A:182:ILE:O	1:A:185:LYS:HB3	2.06	0.54
1:A:215:LEU:C	1:A:219:PRO:HD2	2.27	0.54
1:A:548:LEU:HD22	1:A:550:LEU:CD1	2.38	0.54
1:A:801:ASP:HB3	1:A:1083:TYR:CZ	2.42	0.54
1:A:837:ALA:HB1	1:A:982:MET:HE1	1.89	0.54
1:A:1037:VAL:O	1:A:1037:VAL:HG23	2.08	0.54
1:A:1239:ILE:N	1:A:1239:ILE:HD12	2.22	0.54
1:B:70:ILE:O	1:B:71:PHE:C	2.46	0.54
1:B:86:LYS:HE2	1:B:739:GLY:HA2	1.89	0.54
1:B:548:LEU:HD22	1:B:550:LEU:CD1	2.37	0.54
1:B:1092:LEU:HD23	1:B:1093:ASP:H	1.72	0.54
1:B:1199:THR:HG21	1:B:1210:VAL:HG11	1.89	0.54
1:A:106:GLU:HG3	1:A:110:TYR:CE2	2.42	0.54
1:A:447:VAL:HG13	1:A:454:ILE:HG21	1.90	0.54
1:A:702:THR:C	1:A:704:TRP:H	2.11	0.54
1:A:708:VAL:HG13	1:A:709:VAL:N	2.22	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:722:PRO:HA	1:A:979:PHE:HZ	1.72	0.54
1:A:812:THR:HG22	1:A:816:ASN:ND2	2.19	0.54
1:A:961:THR:O	1:A:962:GLN:HB3	2.08	0.54
1:B:129:VAL:CB	1:B:935:GLY:HA2	2.37	0.54
1:B:157:GLY:HA2	1:B:160:ASP:OD2	2.07	0.54
1:B:731:VAL:HA	1:B:750:LEU:HD13	1.89	0.54
1:A:217:ILE:O	1:A:221:LEU:HG	2.08	0.54
1:A:254:LEU:HD23	1:A:811:THR:CG2	2.38	0.54
1:A:282:ARG:N	1:A:282:ARG:HH11	2.04	0.54
1:A:478:THR:HG22	1:A:479:THR:N	2.17	0.54
1:A:811:THR:CA	1:A:814:LEU:HD23	2.37	0.54
1:B:207:GLY:C	1:B:209:LYS:H	2.11	0.54
1:B:905:SER:HB2	1:B:908:ARG:NH1	2.21	0.54
1:B:1204:THR:HG23	1:B:1205:GLU:N	2.21	0.54
1:A:110:TYR:HA	1:A:113:TYR:CD2	2.34	0.54
1:A:118:GLY:O	1:A:121:VAL:N	2.40	0.54
1:A:211:THR:HA	1:A:214:ILE:CD1	2.37	0.54
1:A:215:LEU:O	1:A:219:PRO:CD	2.56	0.54
1:A:434:GLN:O	1:A:436:MET:N	2.41	0.54
1:B:39:PHE:CD2	1:B:355:ARG:HA	2.42	0.54
1:B:159:PHE:O	1:B:160:ASP:C	2.46	0.54
1:B:328:LEU:C	1:B:328:LEU:HD12	2.28	0.54
1:B:905:SER:O	1:B:907:THR:N	2.39	0.54
1:B:1064:LEU:HD12	1:B:1226:ILE:HB	1.90	0.54
1:A:45:LEU:HD22	1:A:45:LEU:N	2.22	0.54
1:A:311:TRP:HA	1:A:311:TRP:HE3	1.71	0.54
1:A:328:LEU:O	1:A:332:PHE:HB3	2.08	0.54
1:A:777:GLY:HA2	1:A:822:LYS:HG3	1.90	0.54
1:A:1052:LEU:HG	1:A:1053:SER:N	2.22	0.54
1:B:171:LEU:O	1:B:175:VAL:HG12	2.08	0.54
1:B:447:VAL:HG13	1:B:454:ILE:HG21	1.88	0.54
1:B:1246:LYS:HD2	1:B:1246:LYS:H	1.72	0.54
1:A:138:ARG:HH22	1:B:515:GLN:NE2	2.06	0.54
1:A:291:ALA:HA	1:A:294:SER:CB	2.37	0.54
1:A:315:SER:CA	1:A:747:ASN:HD22	2.21	0.54
1:A:507:ASP:O	1:A:510:MET:N	2.39	0.54
1:A:703:GLU:HG2	1:A:784:LEU:HD21	1.90	0.54
1:A:827:SER:O	1:A:831:VAL:HG23	2.08	0.54
1:A:921:GLN:HG2	1:A:922:ILE:CD1	2.37	0.54
1:B:35:VAL:HG12	1:B:359:TYR:CZ	2.42	0.54
1:B:129:VAL:HG11	1:B:935:GLY:N	2.22	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:215:LEU:CA	1:B:219:PRO:HD2	2.38	0.54
1:B:853:LEU:O	1:B:854:THR:C	2.45	0.54
1:B:1193:LEU:HB2	1:B:1223:CYS:HB2	1.90	0.54
1:A:39:PHE:CD2	1:A:355:ARG:HA	2.42	0.54
1:A:69:LEU:O	1:A:72:GLY:N	2.40	0.54
1:A:315:SER:CB	1:A:747:ASN:HD22	2.21	0.54
1:B:288:ALA:HA	1:B:291:ALA:CB	2.38	0.54
1:B:706:TYR:CD1	1:B:706:TYR:C	2.80	0.54
1:B:730:LYS:HG2	1:B:750:LEU:HD22	1.90	0.54
1:B:731:VAL:HA	1:B:750:LEU:CD1	2.38	0.54
1:B:749:ASN:O	1:B:750:LEU:C	2.45	0.54
1:B:893:ALA:O	1:B:897:ILE:HG12	2.07	0.54
1:B:921:GLN:HG2	1:B:922:ILE:CD1	2.38	0.54
1:B:1207:GLU:O	1:B:1211:GLN:HG2	2.08	0.54
1:B:1214:LEU:HD23	1:B:1214:LEU:O	2.08	0.54
1:A:686:GLU:H	1:A:686:GLU:CD	2.11	0.54
1:A:1050:GLN:HG2	1:A:1245:GLY:HA3	1.89	0.54
1:A:1166:GLY:HA3	1:A:1171:GLN:OE1	2.07	0.54
1:B:352:ALA:O	1:B:355:ARG:HB3	2.08	0.54
1:B:812:THR:HG22	1:B:816:ASN:ND2	2.19	0.54
1:B:992:PRO:HB2	1:B:996:LYS:CE	2.38	0.54
1:B:1059:GLY:HA2	1:B:1221:ARG:C	2.28	0.54
1:B:1193:LEU:HD11	1:B:1217:ALA:O	2.08	0.54
1:B:1202:LEU:CG	1:B:1203:ASP:H	2.12	0.54
1:A:936:ILE:HG23	1:A:937:THR:N	2.23	0.54
1:A:962:GLN:O	1:A:963:GLN:HB2	2.06	0.54
1:A:1056:VAL:CG2	1:A:1062:LEU:HB2	2.37	0.54
1:B:133:CYS:O	1:B:135:ALA:N	2.41	0.54
1:B:182:ILE:O	1:B:185:LYS:HB3	2.07	0.54
1:B:546:LYS:O	1:B:577:THR:HG23	2.08	0.54
1:B:722:PRO:HA	1:B:979:PHE:HZ	1.73	0.54
1:B:741:PRO:O	1:B:742:GLU:HB2	2.07	0.54
1:B:749:ASN:C	1:B:749:ASN:HD22	2.11	0.54
1:B:843:ILE:HA	1:B:846:SER:HB2	1.90	0.54
1:B:906:LEU:HD23	1:B:906:LEU:O	2.08	0.54
1:A:713:CYS:SG	1:A:768:LEU:HD11	2.47	0.53
1:A:992:PRO:HB2	1:A:996:LYS:CE	2.38	0.53
1:A:1023:LYS:HG3	1:A:1026:MET:CG	2.38	0.53
1:B:214:ILE:HG12	1:B:331:PHE:CE1	2.43	0.53
1:B:239:GLU:HG3	1:B:288:ALA:HB3	1.88	0.53
1:B:285:ILE:CG2	1:B:286:LYS:HD2	2.38	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:419:VAL:CG2	1:B:593:VAL:HG13	2.38	0.53
1:B:479:THR:HA	1:B:518:THR:O	2.08	0.53
1:B:695:ARG:HD3	1:B:699:LEU:HD23	1.90	0.53
1:B:703:GLU:HG2	1:B:784:LEU:HD21	1.90	0.53
1:B:765:THR:O	1:B:768:LEU:HG	2.08	0.53
1:B:817:ASP:OD1	1:B:1000:SER:HB3	2.08	0.53
1:B:827:SER:HG	1:B:994:TYR:HD2	1.56	0.53
1:A:188:MET:HG3	1:A:348:ILE:HD13	1.90	0.53
1:A:318:ILE:HG13	1:A:735:PHE:CZ	2.43	0.53
1:A:429:LYS:HB3	1:A:581:ILE:HD13	1.89	0.53
1:A:902:THR:HG23	1:A:903:VAL:H	1.72	0.53
1:B:505:ALA:O	1:B:509:ILE:HG23	2.08	0.53
1:B:561:SER:O	1:B:565:VAL:HG23	2.08	0.53
1:B:729:SER:HA	1:B:971:LEU:HB3	1.90	0.53
1:A:57:ALA:O	1:A:60:HIS:N	2.41	0.53
1:A:171:LEU:O	1:A:175:VAL:HG12	2.09	0.53
1:A:519:LEU:HD11	1:B:925:ARG:HD3	1.88	0.53
1:A:905:SER:HB2	1:A:908:ARG:NH1	2.23	0.53
1:A:921:GLN:OE1	1:B:479:THR:HG21	2.08	0.53
1:A:990:PHE:O	1:A:991:ALA:O	2.26	0.53
1:B:972:LEU:N	1:B:972:LEU:CD1	2.71	0.53
1:B:1261:GLY:H	1:B:1264:PHE:CB	2.12	0.53
1:A:99:MET:HB3	1:A:960:VAL:O	2.07	0.53
1:A:370:SER:O	1:A:371:ILE:HB	2.08	0.53
1:A:422:VAL:HG22	1:A:595:ALA:O	2.08	0.53
1:A:846:SER:HA	1:A:849:TYR:CG	2.43	0.53
1:B:282:ARG:N	1:B:282:ARG:HH11	2.06	0.53
1:B:484:ILE:HG21	1:B:496:ILE:CD1	2.32	0.53
1:B:885:GLU:HB3	1:B:923:PRO:HG3	1.90	0.53
1:A:38:MET:O	1:A:41:TYR:HB3	2.08	0.53
1:A:154:GLN:HE21	1:A:157:GLY:HA3	1.73	0.53
1:A:422:VAL:O	1:A:597:PHE:HB2	2.08	0.53
1:A:1032:GLN:HE21	1:A:1055:GLU:HG3	1.71	0.53
1:A:1076:VAL:CG1	1:A:1194:LEU:HD13	2.39	0.53
1:B:248:ALA:C	1:B:250:ALA:H	2.11	0.53
1:B:290:THR:HG22	1:B:770:GLY:C	2.28	0.53
1:B:696:ILE:O	1:B:700:ASN:HB2	2.08	0.53
1:B:709:VAL:HG13	1:B:710:GLY:N	2.24	0.53
1:B:1243:GLN:O	1:B:1244:ASN:C	2.47	0.53
1:A:184:ASP:O	1:A:187:GLY:N	2.41	0.53
1:A:881:LYS:O	1:A:884:LYS:HB2	2.08	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1014:ILE:HB	1:A:1102:VAL:HG21	1.91	0.53
1:A:1064:LEU:HB3	1:A:1226:ILE:HG22	1.91	0.53
1:B:131:PHE:C	1:B:131:PHE:CD2	2.81	0.53
1:B:215:LEU:HA	1:B:219:PRO:HD2	1.89	0.53
1:B:374:PHE:CD1	1:B:375:SER:N	2.74	0.53
1:B:811:THR:CA	1:B:814:LEU:HD23	2.38	0.53
1:B:958:TYR:O	1:B:966:THR:OG1	2.21	0.53
1:A:696:ILE:O	1:A:700:ASN:HB2	2.09	0.53
1:A:800:PHE:HA	1:A:803:PRO:HB3	1.90	0.53
1:A:1204:THR:OG1	1:A:1205:GLU:N	2.42	0.53
1:B:37:THR:O	1:B:38:MET:C	2.45	0.53
1:B:45:LEU:HD22	1:B:45:LEU:N	2.23	0.53
1:B:307:ALA:CB	1:B:754:LEU:HD22	2.39	0.53
1:B:324:ILE:HD11	1:B:327:VAL:HG13	1.90	0.53
1:B:692:SER:HB2	1:B:695:ARG:CB	2.39	0.53
1:B:827:SER:O	1:B:828:ARG:C	2.47	0.53
1:B:846:SER:HA	1:B:849:TYR:CG	2.44	0.53
1:B:1052:LEU:HG	1:B:1053:SER:N	2.23	0.53
1:A:68:MET:O	1:A:329:THR:HG23	2.08	0.53
1:A:432:THR:O	1:A:433:VAL:C	2.48	0.53
1:A:795:GLN:HE21	1:A:796:ASP:H	1.56	0.53
1:B:381:PRO:HD2	1:B:461:TYR:CD2	2.44	0.53
1:B:684:LEU:HD23	1:B:684:LEU:N	2.23	0.53
1:B:881:LYS:HB2	1:B:881:LYS:NZ	2.24	0.53
1:B:936:ILE:HG23	1:B:937:THR:N	2.24	0.53
1:B:969:ASN:O	1:B:972:LEU:N	2.40	0.53
1:B:1057:LYS:H	1:B:1057:LYS:HD2	1.73	0.53
1:B:1064:LEU:HB3	1:B:1226:ILE:HG22	1.90	0.53
1:A:730:LYS:HG2	1:A:750:LEU:HD22	1.90	0.53
1:A:741:PRO:O	1:A:742:GLU:HB2	2.09	0.53
1:A:749:ASN:O	1:A:750:LEU:C	2.47	0.53
1:A:1076:VAL:HG11	1:A:1111:ILE:HD13	1.90	0.53
1:A:1234:GLN:HG2	1:A:1253:HIS:CD2	2.44	0.53
1:B:69:LEU:O	1:B:72:GLY:N	2.42	0.53
1:B:217:ILE:HD11	1:B:331:PHE:CE2	2.44	0.53
1:B:1038:PHE:HB2	1:B:1085:PRO:HA	1.90	0.53
1:B:1179:ARG:HH21	1:B:1209:VAL:CG1	2.14	0.53
1:B:1260:LYS:H	1:B:1260:LYS:CD	2.20	0.53
1:A:203:GLY:O	1:A:215:LEU:HD21	2.08	0.53
1:A:215:LEU:CA	1:A:219:PRO:HD2	2.39	0.53
1:A:215:LEU:HA	1:A:219:PRO:HD2	1.91	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:267:LYS:HB3	1:A:790:LYS:NZ	2.24	0.53
1:A:308:LEU:HA	1:A:751:PHE:CD2	2.44	0.53
1:A:395:PHE:HB3	1:A:406:LEU:HB2	1.91	0.53
1:A:409:LEU:HD21	1:A:602:ILE:HB	1.89	0.53
1:A:978:VAL:O	1:A:981:ALA:HB3	2.08	0.53
1:A:1064:LEU:CD1	1:A:1072:LYS:HG2	2.39	0.53
1:B:153:ASN:HA	1:B:155:GLU:OE2	2.09	0.53
1:B:246:ALA:CB	1:B:277:LEU:HB3	2.38	0.53
1:B:297:ALA:HB1	1:B:763:PHE:CD2	2.43	0.53
1:B:881:LYS:O	1:B:884:LYS:HB2	2.09	0.53
1:A:223:LEU:O	1:A:227:ILE:HG13	2.09	0.52
1:A:385:GLN:HE21	1:A:386:GLY:N	2.06	0.52
1:A:722:PRO:HG3	1:A:979:PHE:CE1	2.44	0.52
1:A:765:THR:O	1:A:768:LEU:HG	2.09	0.52
1:A:899:ASN:O	1:A:902:THR:HG22	2.10	0.52
1:A:1193:LEU:HD11	1:A:1217:ALA:O	2.08	0.52
1:A:1199:THR:HG23	1:A:1210:VAL:HG11	1.90	0.52
1:B:245:LYS:HA	1:B:245:LYS:NZ	2.23	0.52
1:B:722:PRO:HG3	1:B:979:PHE:CE1	2.44	0.52
1:B:992:PRO:O	1:B:994:TYR:N	2.42	0.52
1:B:1032:GLN:HE21	1:B:1055:GLU:HG3	1.72	0.52
1:A:70:ILE:O	1:A:71:PHE:C	2.44	0.52
1:A:283:LEU:HD12	1:A:284:GLY:N	2.24	0.52
1:A:436:MET:HE3	1:A:454:ILE:HD12	1.90	0.52
1:A:1064:LEU:HD12	1:A:1226:ILE:HB	1.89	0.52
1:A:1246:LYS:HD2	1:A:1246:LYS:H	1.74	0.52
1:B:215:LEU:O	1:B:219:PRO:CD	2.55	0.52
1:B:288:ALA:CA	1:B:291:ALA:HB3	2.37	0.52
1:B:422:VAL:HG22	1:B:595:ALA:O	2.08	0.52
1:A:157:GLY:HA2	1:A:160:ASP:CG	2.30	0.52
1:A:324:ILE:HG12	1:A:326:GLN:H	1.74	0.52
1:A:498:LYS:C	1:A:498:LYS:HD3	2.29	0.52
1:A:566:GLN:HA	1:A:569:LEU:HD12	1.91	0.52
1:A:729:SER:HA	1:A:971:LEU:HB3	1.90	0.52
1:A:972:LEU:N	1:A:972:LEU:CD1	2.72	0.52
1:A:1208:LYS:HD3	1:A:1208:LYS:C	2.29	0.52
1:B:231:ILE:HG22	1:B:232:LEU:HD22	1.91	0.52
1:B:297:ALA:HB1	1:B:763:PHE:HA	1.90	0.52
1:B:308:LEU:HD13	1:B:755:PHE:CE1	2.45	0.52
1:B:461:TYR:O	1:B:465:ILE:HG12	2.08	0.52
1:B:478:THR:HG22	1:B:479:THR:N	2.18	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:543:ARG:HH12	1:B:905:SER:HB3	1.73	0.52
1:B:824:ALA:O	1:B:828:ARG:HG2	2.10	0.52
1:B:1118:LEU:O	1:B:1118:LEU:HD12	2.10	0.52
1:B:1270:GLN:HG2	1:B:1271:ALA:N	2.25	0.52
1:A:45:LEU:H	1:A:45:LEU:CD2	2.22	0.52
1:A:124:VAL:HG23	1:A:125:ALA:N	2.25	0.52
1:A:693:PHE:C	1:A:695:ARG:H	2.11	0.52
1:A:1206:SER:O	1:A:1210:VAL:HG23	2.10	0.52
1:B:68:MET:HA	1:B:68:MET:CE	2.39	0.52
1:B:197:PHE:O	1:B:201:ILE:HG12	2.09	0.52
1:B:397:TYR:HB3	1:B:398:PRO:HD2	1.91	0.52
1:B:795:GLN:HE21	1:B:796:ASP:H	1.57	0.52
1:B:899:ASN:HA	1:B:901:ARG:NH1	2.25	0.52
1:B:990:PHE:O	1:B:991:ALA:O	2.27	0.52
1:B:1124:ALA:HB2	1:B:1161:TYR:O	2.09	0.52
1:B:1144:ALA:CA	1:B:1186:LEU:HD11	2.30	0.52
1:A:709:VAL:HG13	1:A:710:GLY:N	2.24	0.52
1:A:1031:VAL:HB	1:A:1056:VAL:HG12	1.91	0.52
1:A:1038:PHE:HB2	1:A:1085:PRO:HA	1.91	0.52
1:B:111:ALA:HA	1:B:114:TYR:HE1	1.73	0.52
1:B:504:ASN:OD1	1:B:568:ALA:HB2	2.09	0.52
1:B:780:LEU:O	1:B:784:LEU:HB2	2.09	0.52
1:B:1050:GLN:HG2	1:B:1245:GLY:HA3	1.91	0.52
1:A:68:MET:HA	1:A:68:MET:CE	2.39	0.52
1:A:434:GLN:O	1:A:435:LEU:C	2.46	0.52
1:A:480:ILE:O	1:A:481:ALA:C	2.47	0.52
1:A:504:ASN:OD1	1:A:568:ALA:HB2	2.10	0.52
1:A:523:ARG:CD	1:A:524:GLY:N	2.65	0.52
1:A:1032:GLN:O	1:A:1090:VAL:HA	2.10	0.52
1:B:185:LYS:O	1:B:186:ILE:C	2.46	0.52
1:B:188:MET:HG3	1:B:348:ILE:HD13	1.90	0.52
1:B:901:ARG:HD3	1:B:901:ARG:N	2.24	0.52
1:B:1037:VAL:HG23	1:B:1037:VAL:O	2.08	0.52
1:B:1076:VAL:CG1	1:B:1194:LEU:HD13	2.39	0.52
1:B:1234:GLN:HG2	1:B:1253:HIS:CD2	2.44	0.52
1:A:182:ILE:O	1:A:185:LYS:HE3	2.10	0.52
1:A:207:GLY:C	1:A:209:LYS:H	2.13	0.52
1:A:594:ILE:O	1:A:605:GLN:HA	2.09	0.52
1:A:769:GLN:HG3	1:A:773:PHE:CE2	2.43	0.52
1:A:791:SER:CA	1:A:1010:LYS:HE2	2.34	0.52
1:A:1092:LEU:HD23	1:A:1093:ASP:H	1.74	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1118:LEU:HD12	1:A:1118:LEU:O	2.10	0.52
1:B:167:LEU:HD23	1:B:167:LEU:C	2.30	0.52
1:B:318:ILE:CG1	1:B:325:GLY:H	2.22	0.52
1:B:712:PHE:O	1:B:715:ILE:N	2.42	0.52
1:B:1067:SER:O	1:B:1068:SER:HB2	2.09	0.52
1:A:59:ILE:HG13	1:A:60:HIS:N	2.24	0.52
1:A:231:ILE:HG22	1:A:232:LEU:HD22	1.92	0.52
1:A:362:PHE:O	1:A:365:ILE:HB	2.10	0.52
1:A:702:THR:HB	1:A:703:GLU:OE1	2.10	0.52
1:A:994:TYR:O	1:A:994:TYR:CD1	2.63	0.52
1:A:1202:LEU:HD21	1:A:1206:SER:CB	2.37	0.52
1:A:1267:VAL:HG13	1:A:1270:GLN:OE1	2.10	0.52
1:B:33:VAL:O	1:B:34:SER:C	2.47	0.52
1:B:64:LEU:HD22	1:B:64:LEU:N	2.25	0.52
1:B:970:VAL:CG2	1:B:971:LEU:HD22	2.40	0.52
1:B:1064:LEU:CD1	1:B:1072:LYS:HG2	2.39	0.52
1:A:37:THR:O	1:A:38:MET:C	2.48	0.52
1:A:419:VAL:CG2	1:A:593:VAL:HG13	2.38	0.52
1:A:697:LEU:HD12	1:A:697:LEU:C	2.30	0.52
1:B:50:MET:HG3	1:B:131:PHE:CE2	2.45	0.52
1:B:111:ALA:HA	1:B:114:TYR:CE1	2.45	0.52
1:B:291:ALA:HA	1:B:294:SER:CB	2.38	0.52
1:B:336:ILE:HD12	2:B:6004:2J8:SE3	2.60	0.52
1:B:480:ILE:O	1:B:481:ALA:C	2.47	0.52
1:B:1057:LYS:HD2	1:B:1057:LYS:N	2.25	0.52
1:B:1076:VAL:HG11	1:B:1111:ILE:HD13	1.90	0.52
1:A:397:TYR:HB3	1:A:398:PRO:HD2	1.92	0.52
1:A:453:ASP:HB3	1:A:456:THR:CG2	2.40	0.52
1:A:1088:GLY:O	1:A:1089:SER:HB2	2.10	0.52
1:A:1140:GLU:O	1:A:1143:ARG:HB3	2.10	0.52
1:B:38:MET:O	1:B:41:TYR:HB3	2.08	0.52
1:B:211:THR:HA	1:B:214:ILE:HD12	1.92	0.52
1:B:362:PHE:O	1:B:365:ILE:HB	2.10	0.52
1:B:813:ARG:HD3	1:B:817:ASP:OD2	2.10	0.52
1:A:50:MET:HG3	1:A:131:PHE:CE2	2.45	0.51
1:A:131:PHE:C	1:A:131:PHE:CD2	2.82	0.51
1:A:212:LEU:O	1:A:213:VAL:C	2.48	0.51
1:A:263:PHE:HE1	1:A:1129:TYR:HB3	1.74	0.51
1:A:278:GLU:HA	1:A:282:ARG:NH2	2.24	0.51
1:A:459:VAL:O	1:A:462:LEU:HB3	2.10	0.51
1:A:492:THR:C	1:A:494:ASP:N	2.63	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:540:ALA:O	1:A:543:ARG:CB	2.58	0.51
1:A:552:GLU:HB3	1:A:555:SER:OG	2.10	0.51
1:A:686:GLU:CG	1:A:813:ARG:HH22	2.13	0.51
1:A:813:ARG:HD3	1:A:817:ASP:OD2	2.11	0.51
1:A:843:ILE:HA	1:A:846:SER:HB2	1.92	0.51
1:A:957:ALA:O	1:A:960:VAL:HG13	2.10	0.51
1:A:1020:GLN:NE2	1:A:1022:LEU:N	2.58	0.51
1:A:1132:ASN:OD1	1:A:1134:ARG:HG2	2.10	0.51
1:B:48:LEU:O	1:B:49:TYR:C	2.46	0.51
1:B:210:LEU:HD13	1:B:210:LEU:C	2.30	0.51
1:B:336:ILE:CD1	2:B:6004:2J8:SE3	3.09	0.51
1:B:395:PHE:HB3	1:B:406:LEU:HB2	1.91	0.51
1:B:463:ARG:HH11	1:B:463:ARG:HG3	1.76	0.51
1:B:498:LYS:HD3	1:B:498:LYS:C	2.31	0.51
1:B:697:LEU:HD12	1:B:697:LEU:C	2.30	0.51
1:B:900:PHE:C	1:B:902:THR:N	2.63	0.51
1:B:1267:VAL:HG13	1:B:1270:GLN:OE1	2.10	0.51
1:A:167:LEU:HD23	1:A:167:LEU:C	2.31	0.51
1:A:203:GLY:C	1:A:211:THR:OG1	2.49	0.51
1:A:258:ARG:O	1:A:259:THR:C	2.49	0.51
1:A:847:LEU:C	1:A:849:TYR:N	2.63	0.51
1:A:1243:GLN:O	1:A:1244:ASN:C	2.48	0.51
1:B:53:GLY:HA2	1:B:127:ILE:HG22	1.92	0.51
1:B:68:MET:O	1:B:329:THR:HG23	2.11	0.51
1:B:184:ASP:O	1:B:187:GLY:N	2.43	0.51
1:B:185:LYS:HZ2	1:B:186:ILE:CA	2.23	0.51
1:B:360:GLU:O	1:B:363:LYS:HB2	2.10	0.51
1:B:469:VAL:HG12	1:B:553:ALA:HB2	1.91	0.51
1:B:976:ALA:HA	1:B:979:PHE:HD2	1.75	0.51
1:B:1023:LYS:HB3	1:B:1026:MET:CG	2.38	0.51
1:A:156:ILE:HG23	1:A:439:LEU:HD12	1.91	0.51
1:A:695:ARG:HD3	1:A:699:LEU:HD23	1.91	0.51
1:A:976:ALA:HA	1:A:979:PHE:HD2	1.74	0.51
1:A:1019:THR:HB	1:A:1099:GLN:O	2.09	0.51
1:A:1101:ASN:O	1:A:1102:VAL:C	2.48	0.51
1:B:57:ALA:O	1:B:58:ILE:C	2.49	0.51
1:B:106:GLU:HG3	1:B:110:TYR:CZ	2.45	0.51
1:B:125:ALA:O	1:B:128:GLN:HG2	2.11	0.51
1:B:384:ILE:CG2	1:B:385:GLN:N	2.72	0.51
1:B:551:ASP:HA	1:B:581:ILE:CG2	2.40	0.51
1:B:702:THR:O	1:B:704:TRP:N	2.43	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:730:LYS:HG2	1:B:750:LEU:CD2	2.40	0.51
1:B:899:ASN:O	1:B:902:THR:HG22	2.11	0.51
1:B:905:SER:OG	1:B:908:ARG:NH2	2.43	0.51
1:B:1154:ILE:CD1	1:B:1161:TYR:CE2	2.93	0.51
1:B:1173:SER:HB3	1:B:1176:GLN:NE2	2.25	0.51
1:A:70:ILE:O	1:A:74:MET:HG2	2.11	0.51
1:A:148:PHE:HB3	1:A:913:GLU:CD	2.31	0.51
1:A:285:ILE:CG2	1:A:286:LYS:HD2	2.40	0.51
1:A:845:ILE:HA	1:A:848:ILE:CG2	2.40	0.51
1:A:853:LEU:CG	1:A:973:VAL:HG22	2.38	0.51
1:A:885:GLU:HB3	1:A:923:PRO:HG3	1.92	0.51
1:A:916:TYR:O	1:A:920:LEU:HD23	2.11	0.51
1:A:970:VAL:O	1:A:973:VAL:CB	2.58	0.51
1:A:1122:SER:O	1:A:1125:GLU:HB2	2.11	0.51
1:B:45:LEU:H	1:B:45:LEU:CD2	2.23	0.51
1:B:81:VAL:HG22	1:B:102:LYS:HG3	1.93	0.51
1:B:212:LEU:O	1:B:213:VAL:C	2.49	0.51
1:B:232:LEU:HD22	1:B:232:LEU:N	2.26	0.51
1:B:260:VAL:O	1:B:263:PHE:HB3	2.09	0.51
1:B:282:ARG:HB3	1:B:778:GLU:CD	2.31	0.51
1:A:41:TYR:O	1:A:42:ALA:HB3	2.10	0.51
1:A:106:GLU:HG3	1:A:110:TYR:CZ	2.46	0.51
1:A:131:PHE:CZ	1:A:185:LYS:NZ	2.75	0.51
1:A:133:CYS:SG	1:A:931:ALA:HA	2.51	0.51
1:A:155:GLU:O	1:A:156:ILE:C	2.49	0.51
1:A:730:LYS:HG2	1:A:750:LEU:CD2	2.41	0.51
1:A:1067:SER:O	1:A:1068:SER:HB2	2.10	0.51
1:A:1173:SER:HB3	1:A:1176:GLN:NE2	2.25	0.51
1:B:51:LEU:O	1:B:54:THR:HB	2.10	0.51
1:B:155:GLU:O	1:B:156:ILE:C	2.48	0.51
1:B:278:GLU:HA	1:B:282:ARG:NH2	2.26	0.51
1:B:342:GLY:O	1:B:345:SER:N	2.43	0.51
1:B:534:ARG:O	1:B:537:ILE:HB	2.10	0.51
1:A:57:ALA:O	1:A:58:ILE:C	2.49	0.51
1:A:136:ALA:CB	1:A:182:ILE:HB	2.38	0.51
1:A:425:SER:HB3	1:A:599:GLY:CA	2.40	0.51
1:A:711:ILE:CD1	1:A:832:ILE:HD13	2.40	0.51
1:A:824:ALA:O	1:A:828:ARG:HG2	2.09	0.51
1:A:905:SER:OG	1:A:908:ARG:NH2	2.44	0.51
1:A:1038:PHE:CG	1:A:1039:ASN:N	2.78	0.51
1:A:1078:LEU:HD23	1:A:1083:TYR:O	2.11	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:147:PHE:CE2	1:B:365:ILE:HG12	2.46	0.51
1:B:371:ILE:O	1:B:373:SER:N	2.43	0.51
1:B:742:GLU:HA	1:B:742:GLU:OE2	2.11	0.51
1:B:799:TRP:O	1:B:803:PRO:HB3	2.10	0.51
1:B:1031:VAL:HB	1:B:1056:VAL:HG12	1.91	0.51
1:A:111:ALA:HA	1:A:114:TYR:HE1	1.76	0.51
1:A:210:LEU:C	1:A:210:LEU:HD13	2.31	0.51
1:A:282:ARG:C	1:A:286:LYS:HD3	2.31	0.51
1:A:352:ALA:O	1:A:355:ARG:HB3	2.10	0.51
1:A:374:PHE:HE2	1:A:376:LYS:HB2	1.76	0.51
1:A:551:ASP:HA	1:A:581:ILE:CG2	2.41	0.51
1:A:881:LYS:HB2	1:A:881:LYS:NZ	2.26	0.51
1:A:1242:ILE:HG12	1:A:1246:LYS:O	2.11	0.51
1:B:786:TYR:O	1:B:787:MET:C	2.49	0.51
1:A:51:LEU:O	1:A:54:THR:HB	2.10	0.51
1:A:64:LEU:HD22	1:A:64:LEU:N	2.26	0.51
1:A:286:LYS:NZ	1:A:822:LYS:NZ	2.59	0.51
1:A:793:LEU:C	1:A:795:GLN:H	2.14	0.51
1:A:1013:GLU:O	1:A:1014:ILE:CG2	2.52	0.51
1:A:1057:LYS:H	1:A:1057:LYS:HD2	1.74	0.51
1:B:958:TYR:O	1:B:966:THR:HG21	2.10	0.51
1:B:1038:PHE:CG	1:B:1039:ASN:N	2.78	0.51
1:B:1132:ASN:OD1	1:B:1134:ARG:HG2	2.11	0.51
1:B:1144:ALA:HB2	1:B:1187:VAL:HG23	1.93	0.51
1:B:1148:ALA:HB1	1:B:1179:ARG:O	2.11	0.51
1:A:72:GLY:O	1:A:75:THR:N	2.43	0.51
1:A:225:ALA:HB2	1:A:302:ILE:HG21	1.92	0.51
1:A:314:THR:O	1:A:315:SER:C	2.48	0.51
1:A:324:ILE:HD11	1:A:327:VAL:HG13	1.92	0.51
1:A:398:PRO:HD3	1:A:440:TYR:CE2	2.46	0.51
1:A:588:VAL:O	1:A:591:ALA:CB	2.57	0.51
1:A:686:GLU:HG2	1:A:813:ARG:NH2	2.13	0.51
1:A:901:ARG:HD3	1:A:901:ARG:N	2.23	0.51
1:A:1001:ALA:O	1:A:1004:ILE:HG22	2.11	0.51
1:B:225:ALA:HB2	1:B:302:ILE:HG21	1.91	0.51
1:B:282:ARG:HB3	1:B:778:GLU:HG2	1.93	0.51
1:B:769:GLN:HG3	1:B:773:PHE:CE2	2.43	0.51
1:B:856:LEU:O	1:B:859:ALA:HB3	2.10	0.51
1:B:949:TYR:CE2	1:B:977:ILE:HG21	2.46	0.51
1:B:955:PHE:O	1:B:958:TYR:HB3	2.11	0.51
1:B:1199:THR:HG23	1:B:1210:VAL:HG11	1.92	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:113:TYR:CG	1:A:114:TYR:N	2.79	0.51
1:A:185:LYS:HZ2	1:A:186:ILE:CA	2.24	0.51
1:A:573:ARG:O	1:A:575:GLY:N	2.43	0.51
1:A:1050:GLN:H	1:A:1245:GLY:HA2	1.76	0.51
1:A:1057:LYS:HD2	1:A:1057:LYS:N	2.26	0.51
1:A:1114:GLN:HE22	1:A:1200:SER:CB	2.23	0.51
1:B:121:VAL:HG23	1:B:122:LEU:H	1.74	0.51
1:B:124:VAL:HG23	1:B:125:ALA:N	2.26	0.51
1:B:462:LEU:HD12	1:B:466:ILE:CD1	2.40	0.51
1:B:806:THR:OG1	1:B:807:THR:N	2.44	0.51
1:B:1123:ILE:HG12	1:B:1124:ALA:N	2.26	0.51
1:A:74:MET:HG3	1:A:75:THR:N	2.26	0.50
1:A:81:VAL:HG22	1:A:102:LYS:HG3	1.93	0.50
1:A:131:PHE:O	1:A:132:TRP:C	2.48	0.50
1:A:702:THR:O	1:A:704:TRP:N	2.44	0.50
1:A:703:GLU:HA	1:A:783:ARG:HH12	1.75	0.50
1:B:1037:VAL:HG12	1:B:1051:GLY:N	2.24	0.50
1:A:48:LEU:O	1:A:49:TYR:C	2.49	0.50
1:A:68:MET:SD	1:A:332:PHE:CE1	3.02	0.50
1:A:118:GLY:HA3	1:A:946:TYR:CE2	2.46	0.50
1:A:260:VAL:O	1:A:263:PHE:HB3	2.11	0.50
1:A:279:GLU:O	1:A:282:ARG:HB2	2.11	0.50
1:A:566:GLN:NE2	1:A:569:LEU:HD12	2.26	0.50
1:B:552:GLU:HB3	1:B:555:SER:HB2	1.93	0.50
1:B:702:THR:C	1:B:704:TRP:H	2.13	0.50
1:B:748:SER:O	1:B:751:PHE:HD1	1.94	0.50
1:B:910:GLN:O	1:B:913:GLU:N	2.44	0.50
1:B:970:VAL:O	1:B:973:VAL:CB	2.58	0.50
1:B:1149:ASN:OD1	1:B:1213:ALA:HB2	2.11	0.50
1:A:922:ILE:CB	1:A:923:PRO:HD3	2.38	0.50
1:A:1023:LYS:HB3	1:A:1023:LYS:HZ3	1.77	0.50
1:A:1214:LEU:HD23	1:A:1214:LEU:O	2.11	0.50
1:B:131:PHE:C	1:B:131:PHE:HD2	2.15	0.50
1:B:583:HIS:O	1:B:585:LEU:HD22	2.10	0.50
1:A:53:GLY:HA2	1:A:127:ILE:HG22	1.93	0.50
1:A:113:TYR:CD1	1:A:114:TYR:N	2.80	0.50
1:A:114:TYR:HB3	1:A:950:ALA:HB2	1.94	0.50
1:A:207:GLY:CA	1:A:211:THR:H	2.22	0.50
1:A:218:SER:CB	1:A:219:PRO:CD	2.90	0.50
1:A:286:LYS:HE3	1:A:822:LYS:HZ1	1.75	0.50
1:A:1067:SER:OG	1:A:1244:ASN:ND2	2.45	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1149:ASN:OD1	1:A:1213:ALA:HB2	2.10	0.50
1:B:74:MET:HG3	1:B:75:THR:N	2.27	0.50
1:B:604:GLU:OE2	1:B:616:GLY:HA3	2.12	0.50
1:B:702:THR:HB	1:B:703:GLU:OE1	2.11	0.50
1:B:777:GLY:HA2	1:B:822:LYS:HG3	1.93	0.50
1:B:1032:GLN:O	1:B:1090:VAL:HA	2.11	0.50
1:B:1204:THR:OG1	1:B:1205:GLU:N	2.42	0.50
1:A:159:PHE:O	1:A:160:ASP:C	2.48	0.50
1:A:267:LYS:HB3	1:A:790:LYS:CE	2.41	0.50
1:A:326:GLN:HE21	1:A:329:THR:HG1	1.57	0.50
1:A:384:ILE:CG2	1:A:385:GLN:H	2.03	0.50
1:A:433:VAL:CG1	1:A:549:LEU:HD23	2.41	0.50
1:A:892:ILE:O	1:A:893:ALA:C	2.49	0.50
1:A:906:LEU:HG	1:A:909:GLU:CD	2.31	0.50
1:A:1027:LEU:HD12	1:A:1027:LEU:N	2.26	0.50
1:A:1037:VAL:HG12	1:A:1051:GLY:N	2.24	0.50
1:A:1144:ALA:HB2	1:A:1187:VAL:HG23	1.92	0.50
1:B:573:ARG:O	1:B:575:GLY:N	2.45	0.50
1:A:91:MET:HB3	1:A:93:GLU:OE2	2.12	0.50
1:A:362:PHE:HA	1:A:365:ILE:CD1	2.41	0.50
1:A:462:LEU:HD12	1:A:466:ILE:CD1	2.40	0.50
1:A:463:ARG:HH11	1:A:463:ARG:HG3	1.76	0.50
1:A:469:VAL:HG12	1:A:553:ALA:HB2	1.94	0.50
1:A:505:ALA:O	1:A:509:ILE:HG23	2.10	0.50
1:A:561:SER:O	1:A:565:VAL:HG23	2.10	0.50
1:A:905:SER:C	1:A:907:THR:H	2.14	0.50
1:A:1028:GLU:HB2	1:A:1093:ASP:OD1	2.12	0.50
1:A:1081:ARG:NH1	1:A:1098:LYS:O	2.44	0.50
1:B:113:TYR:CG	1:B:114:TYR:N	2.79	0.50
1:B:283:LEU:HD12	1:B:284:GLY:N	2.25	0.50
1:B:454:ILE:HG23	1:B:455:ARG:N	2.27	0.50
1:B:695:ARG:HD3	1:B:699:LEU:CD2	2.42	0.50
1:B:780:LEU:C	1:B:784:LEU:HD23	2.32	0.50
1:A:342:GLY:O	1:A:346:PRO:CD	2.60	0.50
1:A:544:ASN:HB2	1:A:576:ARG:HH21	1.77	0.50
1:A:899:ASN:HA	1:A:901:ARG:NH1	2.25	0.50
1:B:113:TYR:CD1	1:B:114:TYR:N	2.79	0.50
1:B:131:PHE:O	1:B:132:TRP:C	2.49	0.50
1:B:171:LEU:HD13	1:B:171:LEU:C	2.32	0.50
1:B:186:ILE:CG1	1:B:187:GLY:N	2.75	0.50
1:B:482:GLU:O	1:B:483:ASN:C	2.48	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:566:GLN:NE2	1:B:569:LEU:HD12	2.26	0.50
1:B:603:VAL:HG21	1:B:617:ILE:HG13	1.94	0.50
1:B:906:LEU:HG	1:B:909:GLU:CD	2.31	0.50
1:B:957:ALA:O	1:B:960:VAL:HG13	2.12	0.50
1:B:1001:ALA:O	1:B:1004:ILE:HG22	2.12	0.50
1:A:374:PHE:CD2	1:A:376:LYS:HB3	2.47	0.50
1:A:384:ILE:O	1:A:385:GLN:O	2.30	0.50
1:A:603:VAL:HG21	1:A:617:ILE:HG13	1.94	0.50
1:A:937:THR:OG1	1:A:938:PHE:N	2.44	0.50
1:A:945:MET:O	1:A:949:TYR:HD1	1.95	0.50
1:A:955:PHE:O	1:A:958:TYR:HB3	2.12	0.50
1:B:49:TYR:HH	1:B:130:SER:HB2	1.75	0.50
1:B:453:ASP:HB3	1:B:456:THR:CG2	2.41	0.50
1:B:853:LEU:H	1:B:853:LEU:CD2	2.16	0.50
1:B:1023:LYS:CB	1:B:1026:MET:HG2	2.41	0.50
1:A:118:GLY:HA3	1:A:946:TYR:CD2	2.46	0.50
1:A:534:ARG:O	1:A:537:ILE:HB	2.12	0.50
1:A:697:LEU:HB3	1:A:828:ARG:CZ	2.41	0.50
1:A:1196:ASP:OD2	1:A:1226:ILE:HD11	2.12	0.50
1:B:114:TYR:CB	1:B:950:ALA:HB2	2.42	0.50
1:B:182:ILE:O	1:B:185:LYS:HE3	2.11	0.50
1:B:189:PHE:O	1:B:190:PHE:C	2.51	0.50
1:B:218:SER:CB	1:B:219:PRO:CD	2.90	0.50
1:B:820:GLN:HG3	1:B:1000:SER:HB3	1.92	0.50
1:B:1178:GLN:O	1:B:1182:ILE:HG12	2.11	0.50
1:B:1196:ASP:OD2	1:B:1226:ILE:HD11	2.12	0.50
1:A:689:PRO:HB2	1:A:690:PRO:CD	2.37	0.49
1:A:799:TRP:O	1:A:803:PRO:HB3	2.12	0.49
1:A:848:ILE:O	1:A:848:ILE:HG12	2.12	0.49
1:A:972:LEU:O	1:A:975:SER:CB	2.60	0.49
1:A:1079:LEU:C	1:A:1081:ARG:N	2.66	0.49
1:B:91:MET:HB3	1:B:93:GLU:OE2	2.12	0.49
1:B:897:ILE:CG1	1:B:898:GLU:H	2.10	0.49
1:B:1067:SER:OG	1:B:1244:ASN:ND2	2.45	0.49
1:B:1154:ILE:HD13	1:B:1161:TYR:CE2	2.47	0.49
1:A:131:PHE:C	1:A:131:PHE:HD2	2.16	0.49
1:A:232:LEU:HD22	1:A:232:LEU:N	2.27	0.49
1:A:238:LYS:HZ3	1:A:242:ALA:HB2	1.77	0.49
1:A:304:ALA:HB2	1:A:758:LEU:HD23	1.94	0.49
1:A:393:ILE:HG13	1:A:409:LEU:HB3	1.94	0.49
1:A:507:ASP:OD1	1:A:508:PHE:N	2.35	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:778:GLU:O	1:A:779:ILE:C	2.49	0.49
1:B:70:ILE:O	1:B:74:MET:HG2	2.12	0.49
1:B:406:LEU:HD12	1:B:409:LEU:HB2	1.93	0.49
1:B:536:ALA:O	1:B:537:ILE:O	2.30	0.49
1:B:937:THR:OG1	1:B:938:PHE:N	2.45	0.49
1:B:1050:GLN:H	1:B:1245:GLY:HA2	1.77	0.49
1:B:1175:GLY:O	1:B:1179:ARG:HG3	2.12	0.49
1:B:1249:GLU:OE1	1:B:1262:ILE:HB	2.12	0.49
1:A:265:GLY:O	1:A:267:LYS:HG3	2.12	0.49
1:A:361:VAL:O	1:A:365:ILE:CD1	2.59	0.49
1:A:969:ASN:O	1:A:972:LEU:N	2.44	0.49
1:A:1255:GLN:HG2	1:A:1259:GLN:HE22	1.77	0.49
1:B:265:GLY:O	1:B:267:LYS:HG3	2.11	0.49
1:B:342:GLY:O	1:B:346:PRO:CD	2.60	0.49
1:B:544:ASN:HB2	1:B:576:ARG:HH21	1.77	0.49
1:B:900:PHE:C	1:B:900:PHE:CD1	2.85	0.49
1:B:969:ASN:HD22	1:B:970:VAL:H	1.57	0.49
1:B:1229:ARG:O	1:B:1231:SER:N	2.45	0.49
1:A:44:TRP:CD1	1:A:45:LEU:HD22	2.47	0.49
1:A:406:LEU:HD12	1:A:409:LEU:HB2	1.93	0.49
1:A:454:ILE:HG23	1:A:455:ARG:N	2.27	0.49
1:A:520:VAL:HG12	1:A:523:ARG:O	2.11	0.49
1:A:695:ARG:HD3	1:A:699:LEU:CD2	2.42	0.49
1:A:730:LYS:O	1:A:733:GLY:N	2.46	0.49
1:A:748:SER:O	1:A:751:PHE:HD1	1.94	0.49
1:A:795:GLN:NE2	1:A:796:ASP:H	2.10	0.49
1:A:893:ALA:O	1:A:897:ILE:HG12	2.13	0.49
1:A:1076:VAL:HG22	1:A:1194:LEU:HD22	1.95	0.49
1:A:1078:LEU:C	1:A:1081:ARG:H	2.15	0.49
1:A:1216:LYS:HA	1:A:1216:LYS:CE	2.36	0.49
1:B:697:LEU:HB3	1:B:828:ARG:CZ	2.43	0.49
1:B:934:PHE:O	1:B:935:GLY:C	2.48	0.49
1:B:1022:LEU:O	1:B:1023:LYS:O	2.31	0.49
1:B:1046:ILE:HD12	1:B:1046:ILE:N	2.28	0.49
1:B:1062:LEU:HB3	1:B:1224:ILE:HA	1.94	0.49
1:A:111:ALA:HA	1:A:114:TYR:CE1	2.47	0.49
1:A:214:ILE:HG12	1:A:331:PHE:CE2	2.48	0.49
1:A:246:ALA:CB	1:A:277:LEU:HB3	2.39	0.49
1:A:585:LEU:HD12	1:A:618:TYR:CE1	2.43	0.49
1:A:585:LEU:H	1:A:585:LEU:CD2	2.25	0.49
1:A:712:PHE:O	1:A:715:ILE:N	2.45	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:806:THR:OG1	1:A:807:THR:N	2.45	0.49
1:A:883:LYS:CA	1:A:886:LEU:HG	2.43	0.49
1:A:962:GLN:O	1:A:962:GLN:HG2	2.13	0.49
1:A:1041:PRO:O	1:A:1042:THR:HB	2.13	0.49
1:B:44:TRP:CD1	1:B:45:LEU:HD22	2.47	0.49
1:B:118:GLY:HA3	1:B:946:TYR:CD2	2.48	0.49
1:B:158:TRP:CD1	1:B:158:TRP:C	2.86	0.49
1:B:261:ILE:C	1:B:263:PHE:N	2.62	0.49
1:B:327:VAL:HG23	1:B:328:LEU:N	2.27	0.49
1:B:588:VAL:O	1:B:591:ALA:CB	2.59	0.49
1:B:974:PHE:O	1:B:978:VAL:HG12	2.13	0.49
1:B:1032:GLN:NE2	1:B:1055:GLU:HG3	2.28	0.49
1:A:121:VAL:CG2	1:A:122:LEU:H	2.25	0.49
1:A:186:ILE:CG1	1:A:187:GLY:N	2.75	0.49
1:A:248:ALA:C	1:A:250:ALA:H	2.14	0.49
1:A:807:THR:O	1:A:811:THR:HG23	2.13	0.49
1:A:1249:GLU:OE1	1:A:1262:ILE:HB	2.13	0.49
1:B:68:MET:SD	1:B:332:PHE:CE1	3.02	0.49
1:B:425:SER:HB3	1:B:599:GLY:CA	2.43	0.49
1:B:492:THR:C	1:B:494:ASP:N	2.64	0.49
1:B:703:GLU:HA	1:B:783:ARG:HH12	1.76	0.49
1:B:711:ILE:CD1	1:B:832:ILE:HD13	2.42	0.49
1:B:1041:PRO:O	1:B:1042:THR:HB	2.13	0.49
1:B:1076:VAL:HG22	1:B:1194:LEU:HD22	1.95	0.49
1:B:1137:SER:O	1:B:1141:ILE:HG23	2.12	0.49
1:A:99:MET:N	1:A:99:MET:SD	2.85	0.49
1:A:171:LEU:HD13	1:A:171:LEU:C	2.33	0.49
1:A:286:LYS:CE	1:A:822:LYS:NZ	2.76	0.49
1:A:742:GLU:HA	1:A:742:GLU:OE2	2.12	0.49
1:A:969:ASN:HD22	1:A:970:VAL:H	1.56	0.49
1:A:154:GLN:O	1:A:154:GLN:HG2	2.13	0.49
1:A:207:GLY:O	1:A:209:LYS:N	2.46	0.49
1:A:418:THR:HG22	1:A:578:THR:CG2	2.43	0.49
1:A:1186:LEU:HD12	1:A:1187:VAL:N	2.28	0.49
1:A:1260:LYS:H	1:A:1260:LYS:CD	2.23	0.49
1:B:64:LEU:HD11	1:B:945:MET:HE1	1.95	0.49
1:B:286:LYS:HG2	1:B:778:GLU:CG	2.43	0.49
1:B:398:PRO:HD3	1:B:440:TYR:CE2	2.47	0.49
1:B:422:VAL:O	1:B:597:PHE:HB2	2.12	0.49
1:B:835:ASN:O	1:B:836:ILE:C	2.50	0.49
1:B:1114:GLN:HE22	1:B:1200:SER:CB	2.25	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:158:TRP:NE1	1:A:900:PHE:HB3	2.12	0.49
1:A:342:GLY:O	1:A:346:PRO:HD2	2.12	0.49
1:A:922:ILE:HB	1:A:923:PRO:CD	2.41	0.49
1:B:65:PRO:O	1:B:66:LEU:C	2.50	0.49
1:B:324:ILE:HG13	1:B:326:GLN:N	2.28	0.49
1:B:962:GLN:O	1:B:962:GLN:HG2	2.13	0.49
1:B:1147:GLU:HB3	1:B:1186:LEU:CD2	2.40	0.49
1:A:433:VAL:HG13	1:A:549:LEU:HD23	1.95	0.49
1:A:849:TYR:OH	1:A:976:ALA:CB	2.61	0.49
1:A:1057:LYS:N	1:A:1060:GLN:NE2	2.61	0.49
1:B:121:VAL:CG2	1:B:122:LEU:H	2.25	0.49
1:B:321:GLU:HG3	1:B:322:TYR:H	1.76	0.49
1:B:385:GLN:HE21	1:B:386:GLY:N	2.08	0.49
1:B:848:ILE:O	1:B:848:ILE:HG12	2.11	0.49
1:B:850:GLY:C	1:B:852:GLN:N	2.65	0.49
1:A:77:SER:O	1:A:81:VAL:HG23	2.13	0.48
1:A:520:VAL:CG1	1:A:524:GLY:HA2	2.43	0.48
1:A:1032:GLN:NE2	1:A:1055:GLU:HG3	2.27	0.48
1:A:1037:VAL:CG2	1:A:1037:VAL:O	2.61	0.48
1:A:1046:ILE:HD12	1:A:1046:ILE:N	2.28	0.48
1:B:99:MET:N	1:B:99:MET:SD	2.86	0.48
1:B:158:TRP:HE1	1:B:900:PHE:CB	2.26	0.48
1:B:202:ILE:O	1:B:204:PHE:N	2.45	0.48
1:B:303:TYR:O	1:B:306:TYR:CB	2.60	0.48
1:B:418:THR:HG22	1:B:578:THR:CG2	2.42	0.48
1:B:1088:GLY:O	1:B:1089:SER:HB2	2.12	0.48
1:A:121:VAL:O	1:A:122:LEU:C	2.51	0.48
1:A:342:GLY:O	1:A:345:SER:N	2.47	0.48
1:A:360:GLU:O	1:A:363:LYS:HB2	2.13	0.48
1:A:780:LEU:C	1:A:784:LEU:HD23	2.33	0.48
1:B:916:TYR:O	1:B:920:LEU:HD23	2.13	0.48
1:B:1186:LEU:HD12	1:B:1187:VAL:N	2.28	0.48
1:A:199:GLY:HA2	1:A:334:VAL:HG23	1.95	0.48
1:A:211:THR:HA	1:A:214:ILE:HD12	1.95	0.48
1:A:376:LYS:HD2	1:A:376:LYS:C	2.33	0.48
1:A:479:THR:O	1:A:482:GLU:HB2	2.13	0.48
1:A:781:THR:HG23	1:A:818:ALA:HB1	1.95	0.48
1:A:900:PHE:C	1:A:902:THR:N	2.61	0.48
1:A:1009:GLU:O	1:A:1010:LYS:HG3	2.13	0.48
1:B:188:MET:SD	1:B:188:MET:C	2.92	0.48
1:B:291:ALA:CA	1:B:294:SER:HB2	2.40	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:484:ILE:CG2	1:B:496:ILE:CD1	2.91	0.48
1:B:969:ASN:HD22	1:B:969:ASN:C	2.16	0.48
1:B:1145:ALA:CB	1:B:1154:ILE:HD12	2.44	0.48
1:A:121:VAL:HG23	1:A:122:LEU:H	1.76	0.48
1:A:301:LEU:O	1:A:304:ALA:HB3	2.13	0.48
1:A:327:VAL:HG23	1:A:328:LEU:N	2.28	0.48
1:A:368:LYS:O	1:A:369:PRO:C	2.51	0.48
1:A:374:PHE:CE2	1:A:376:LYS:HB2	2.48	0.48
1:A:550:LEU:HD12	1:A:550:LEU:N	2.29	0.48
1:A:728:PHE:O	1:A:732:VAL:HG22	2.13	0.48
1:A:783:ARG:HG2	1:A:783:ARG:HH11	1.78	0.48
1:A:978:VAL:HG21	2:A:6001:2J8:H29	1.95	0.48
1:B:86:LYS:HE2	1:B:738:GLY:C	2.33	0.48
1:B:154:GLN:O	1:B:154:GLN:HG2	2.13	0.48
1:B:207:GLY:HA2	1:B:210:LEU:HD12	1.94	0.48
1:B:324:ILE:HG13	1:B:326:GLN:H	1.76	0.48
1:B:781:THR:HG23	1:B:818:ALA:HB1	1.94	0.48
1:B:894:THR:HA	1:B:897:ILE:HD11	1.96	0.48
1:B:905:SER:C	1:B:907:THR:H	2.17	0.48
1:B:922:ILE:CB	1:B:923:PRO:HD3	2.41	0.48
1:B:945:MET:O	1:B:949:TYR:HD1	1.96	0.48
1:B:1037:VAL:CG2	1:B:1037:VAL:O	2.61	0.48
1:A:51:LEU:O	1:A:52:VAL:C	2.52	0.48
1:A:204:PHE:O	1:A:211:THR:HG21	2.14	0.48
1:A:420:ALA:O	1:A:421:LEU:HD12	2.14	0.48
1:A:479:THR:HA	1:A:518:THR:O	2.14	0.48
1:A:728:PHE:CE1	2:A:6002:2J8:SE2	3.16	0.48
1:A:785:ARG:O	1:A:786:TYR:C	2.52	0.48
1:A:797:VAL:O	1:A:801:ASP:HB2	2.14	0.48
1:A:908:ARG:CD	1:A:908:ARG:N	2.76	0.48
1:B:35:VAL:HA	1:B:359:TYR:CD2	2.49	0.48
1:B:77:SER:O	1:B:81:VAL:HG23	2.14	0.48
1:B:238:LYS:HZ2	1:B:242:ALA:HB2	1.78	0.48
1:B:306:TYR:CE1	1:B:335:LEU:HD22	2.49	0.48
1:B:318:ILE:HD13	1:B:327:VAL:HG22	1.95	0.48
1:B:324:ILE:HD11	1:B:327:VAL:CG1	2.43	0.48
1:B:464:GLU:HA	1:B:543:ARG:CZ	2.43	0.48
1:B:711:ILE:HD11	1:B:832:ILE:CG2	2.27	0.48
1:B:711:ILE:O	1:B:714:ALA:HB3	2.14	0.48
1:B:907:THR:N	1:B:908:ARG:NE	2.60	0.48
1:B:1057:LYS:N	1:B:1060:GLN:NE2	2.62	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:212:LEU:C	1:A:214:ILE:N	2.65	0.48
1:A:214:ILE:CG2	1:A:334:VAL:HG11	2.43	0.48
1:A:348:ILE:O	1:A:351:PHE:N	2.47	0.48
1:A:465:ILE:O	1:A:465:ILE:HG22	2.13	0.48
1:A:970:VAL:CG2	1:A:971:LEU:HD22	2.40	0.48
1:A:1147:GLU:HB3	1:A:1186:LEU:CD2	2.42	0.48
1:B:144:ARG:O	1:B:145:GLN:C	2.50	0.48
1:B:181:GLY:HA3	1:B:354:ALA:CB	2.44	0.48
1:B:332:PHE:O	1:B:335:LEU:HB3	2.13	0.48
1:B:471:GLN:OE1	1:B:472:GLU:N	2.45	0.48
1:B:883:LYS:CA	1:B:886:LEU:HG	2.43	0.48
1:B:906:LEU:C	1:B:908:ARG:HD2	2.34	0.48
1:B:1255:GLN:O	1:B:1258:ALA:HB3	2.13	0.48
1:A:128:GLN:O	1:A:131:PHE:N	2.47	0.48
1:A:144:ARG:O	1:A:145:GLN:C	2.52	0.48
1:A:148:PHE:CD2	1:A:913:GLU:OE2	2.64	0.48
1:A:183:GLY:O	1:A:186:ILE:CG1	2.58	0.48
1:A:702:THR:C	1:A:704:TRP:N	2.66	0.48
1:A:721:GLN:O	1:A:722:PRO:C	2.51	0.48
1:A:1137:SER:HB3	1:A:1140:GLU:HB3	1.94	0.48
1:B:106:GLU:OE2	1:B:109:THR:HB	2.14	0.48
1:B:293:ILE:HG21	1:B:770:GLY:HA3	1.96	0.48
1:B:529:GLY:HA2	1:B:532:LYS:HD3	1.96	0.48
1:B:540:ALA:O	1:B:543:ARG:CB	2.61	0.48
1:B:793:LEU:C	1:B:795:GLN:H	2.17	0.48
1:B:1001:ALA:O	1:B:1005:ILE:CG1	2.62	0.48
1:B:1078:LEU:HD23	1:B:1083:TYR:O	2.13	0.48
1:B:1242:ILE:HG12	1:B:1246:LYS:O	2.14	0.48
1:A:158:TRP:C	1:A:158:TRP:CD1	2.87	0.48
1:A:189:PHE:O	1:A:190:PHE:C	2.52	0.48
1:A:479:THR:OG1	1:A:482:GLU:HG2	2.13	0.48
1:A:749:ASN:C	1:A:749:ASN:ND2	2.67	0.48
1:A:861:VAL:O	1:A:862:PRO:C	2.51	0.48
1:A:886:LEU:HD12	1:A:887:GLU:N	2.28	0.48
1:A:934:PHE:O	1:A:935:GLY:C	2.51	0.48
1:A:1032:GLN:HE21	1:A:1055:GLU:HB2	1.79	0.48
1:B:38:MET:O	1:B:39:PHE:C	2.52	0.48
1:B:218:SER:CB	1:B:219:PRO:HD3	2.44	0.48
1:B:316:LEU:C	1:B:318:ILE:H	2.17	0.48
1:B:342:GLY:O	1:B:346:PRO:HD2	2.12	0.48
1:B:520:VAL:HG12	1:B:523:ARG:O	2.13	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:523:ARG:CD	1:B:524:GLY:N	2.63	0.48
1:B:849:TYR:OH	1:B:976:ALA:CB	2.61	0.48
1:A:217:ILE:HG13	1:A:218:SER:H	1.78	0.48
1:A:318:ILE:HD13	1:A:327:VAL:CG1	2.44	0.48
1:A:531:GLN:O	1:A:535:ILE:HG12	2.14	0.48
1:B:128:GLN:O	1:B:131:PHE:N	2.47	0.48
1:B:393:ILE:HG13	1:B:409:LEU:HB3	1.95	0.48
1:B:783:ARG:HG2	1:B:783:ARG:HH11	1.77	0.48
1:A:140:ILE:HG13	1:A:179:ASN:HB2	1.95	0.48
1:A:197:PHE:O	1:A:201:ILE:HG12	2.13	0.48
1:A:257:ILE:O	1:A:257:ILE:HD13	2.12	0.48
1:A:506:TYR:O	1:A:510:MET:HG2	2.14	0.48
1:A:538:ALA:O	1:A:541:LEU:HB3	2.13	0.48
1:A:711:ILE:CD1	1:A:832:ILE:HG21	2.28	0.48
1:A:727:ILE:HD11	1:A:753:LEU:CG	2.44	0.48
1:A:923:PRO:HA	1:A:926:ASN:HB3	1.96	0.48
1:A:1029:GLY:O	1:A:1031:VAL:N	2.47	0.48
1:A:1217:ALA:O	1:A:1221:ARG:HD3	2.14	0.48
1:B:484:ILE:O	1:B:487:GLY:N	2.46	0.48
1:B:532:LYS:O	1:B:533:GLN:C	2.52	0.48
1:B:533:GLN:O	1:B:536:ALA:HB3	2.14	0.48
1:B:730:LYS:O	1:B:733:GLY:N	2.46	0.48
1:B:902:THR:OG1	1:B:908:ARG:HD3	2.14	0.48
1:B:908:ARG:CD	1:B:908:ARG:N	2.77	0.48
1:B:1032:GLN:HE21	1:B:1055:GLU:HB2	1.78	0.48
1:B:1255:GLN:HG2	1:B:1259:GLN:HE22	1.78	0.48
1:A:175:VAL:CG1	1:A:176:SER:H	2.27	0.47
1:A:386:GLY:HA3	1:A:450:ASP:CA	2.39	0.47
1:A:773:PHE:CD1	1:A:773:PHE:C	2.87	0.47
1:A:835:ASN:O	1:A:836:ILE:C	2.52	0.47
1:A:907:THR:C	1:A:908:ARG:NE	2.60	0.47
1:A:959:LEU:O	1:A:964:LEU:HB3	2.13	0.47
1:A:1020:GLN:NE2	1:A:1104:TRP:CE3	2.77	0.47
1:A:1056:VAL:O	1:A:1056:VAL:HG13	2.14	0.47
1:A:1092:LEU:O	1:A:1093:ASP:HB3	2.14	0.47
1:B:136:ALA:O	1:B:139:GLN:HB2	2.14	0.47
1:B:282:ARG:HG3	1:B:782:LYS:HD3	1.96	0.47
1:B:311:TRP:CD1	1:B:754:LEU:HD13	2.49	0.47
1:B:550:LEU:N	1:B:550:LEU:HD12	2.28	0.47
1:B:1032:GLN:NE2	1:B:1055:GLU:HB2	2.29	0.47
1:A:188:MET:SD	1:A:188:MET:C	2.92	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:539:ARG:O	1:A:540:ALA:C	2.52	0.47
1:A:625:GLN:O	1:A:626:THR:HB	2.14	0.47
1:A:706:TYR:O	1:A:707:PHE:CG	2.67	0.47
1:A:734:VAL:HG11	1:A:746:GLN:HB3	1.96	0.47
1:A:861:VAL:O	1:A:864:ILE:HG13	2.14	0.47
1:A:908:ARG:N	1:A:908:ARG:HD2	2.29	0.47
1:A:910:GLN:O	1:A:913:GLU:N	2.46	0.47
1:A:948:SER:O	1:A:952:CYS:HB2	2.13	0.47
1:A:1057:LYS:H	1:A:1060:GLN:NE2	2.12	0.47
1:B:308:LEU:HD12	1:B:751:PHE:CE2	2.48	0.47
1:B:449:ILE:HD13	1:B:449:ILE:C	2.34	0.47
1:B:479:THR:OG1	1:B:482:GLU:HG2	2.15	0.47
1:B:538:ALA:O	1:B:539:ARG:C	2.53	0.47
1:B:625:GLN:O	1:B:626:THR:HB	2.14	0.47
1:B:1019:THR:O	1:B:1101:ASN:N	2.43	0.47
1:B:1117:ILE:HG13	1:B:1118:LEU:N	2.30	0.47
1:A:207:GLY:CA	1:A:211:THR:HB	2.39	0.47
1:A:270:LEU:HD23	1:A:270:LEU:N	2.17	0.47
1:A:324:ILE:HD11	1:A:327:VAL:CG1	2.45	0.47
1:A:398:PRO:O	1:A:400:ARG:N	2.46	0.47
1:A:430:SER:O	1:A:431:THR:C	2.52	0.47
1:A:464:GLU:HA	1:A:543:ARG:CZ	2.43	0.47
1:A:800:PHE:C	1:A:803:PRO:HD3	2.31	0.47
1:A:1117:ILE:HG13	1:A:1118:LEU:N	2.30	0.47
1:B:204:PHE:N	1:B:211:THR:OG1	2.47	0.47
1:B:285:ILE:HG22	1:B:286:LYS:HD2	1.96	0.47
1:B:397:TYR:CB	1:B:398:PRO:HD2	2.44	0.47
1:B:539:ARG:O	1:B:540:ALA:C	2.52	0.47
1:B:589:ARG:C	1:B:591:ALA:N	2.65	0.47
1:B:702:THR:C	1:B:704:TRP:N	2.67	0.47
1:B:1154:ILE:CD1	1:B:1161:TYR:HE2	2.27	0.47
1:A:533:GLN:HE21	1:A:553:ALA:HB1	1.79	0.47
1:A:732:VAL:HG21	1:A:971:LEU:HG	1.97	0.47
1:A:853:LEU:HG	1:A:973:VAL:CG2	2.40	0.47
1:A:1062:LEU:HB3	1:A:1224:ILE:HA	1.95	0.47
1:B:191:GLN:O	1:B:192:ALA:C	2.53	0.47
1:B:212:LEU:HD12	1:B:215:LEU:HD12	1.95	0.47
1:B:258:ARG:O	1:B:259:THR:C	2.52	0.47
1:B:279:GLU:HA	1:B:782:LYS:HZ2	1.79	0.47
1:B:282:ARG:HB3	1:B:778:GLU:CG	2.44	0.47
1:B:348:ILE:O	1:B:351:PHE:N	2.48	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:566:GLN:HA	1:B:569:LEU:CD1	2.44	0.47
1:B:785:ARG:NH2	1:B:815:ALA:HA	2.29	0.47
1:B:795:GLN:NE2	1:B:796:ASP:H	2.11	0.47
1:B:820:GLN:CB	1:B:1000:SER:HB2	2.44	0.47
1:B:886:LEU:HD12	1:B:887:GLU:N	2.30	0.47
1:B:904:VAL:CG1	1:B:905:SER:N	2.77	0.47
1:B:959:LEU:O	1:B:964:LEU:HB3	2.14	0.47
1:A:125:ALA:O	1:A:128:GLN:HG2	2.15	0.47
1:A:188:MET:HB2	1:A:347:ASN:HB3	1.96	0.47
1:A:202:ILE:O	1:A:204:PHE:N	2.45	0.47
1:A:269:GLU:O	1:A:270:LEU:C	2.52	0.47
1:A:376:LYS:NZ	1:A:377:SER:HB2	2.30	0.47
1:A:469:VAL:HG12	1:A:553:ALA:CB	2.45	0.47
1:A:928:MET:O	1:A:931:ALA:HB3	2.14	0.47
1:A:943:ALA:HA	1:A:946:TYR:HE1	1.79	0.47
1:B:121:VAL:O	1:B:122:LEU:C	2.51	0.47
1:B:157:GLY:HA2	1:B:160:ASP:CG	2.34	0.47
1:B:286:LYS:CA	1:B:289:ILE:HB	2.39	0.47
1:B:362:PHE:CA	1:B:365:ILE:HD12	2.41	0.47
1:B:432:THR:O	1:B:435:LEU:HB2	2.15	0.47
1:B:465:ILE:O	1:B:465:ILE:HG22	2.14	0.47
1:B:727:ILE:HD12	1:B:754:LEU:HB2	1.97	0.47
1:B:861:VAL:O	1:B:864:ILE:HG13	2.15	0.47
1:B:915:MET:O	1:B:918:GLN:HB2	2.14	0.47
1:B:923:PRO:HA	1:B:926:ASN:HB3	1.96	0.47
1:B:943:ALA:HA	1:B:946:TYR:CE1	2.50	0.47
1:B:1077:GLN:O	1:B:1080:GLU:HB2	2.15	0.47
1:B:1214:LEU:HD23	1:B:1214:LEU:C	2.34	0.47
1:A:62:VAL:C	1:A:65:PRO:HD2	2.35	0.47
1:A:191:GLN:O	1:A:192:ALA:C	2.53	0.47
1:A:210:LEU:C	1:A:212:LEU:N	2.65	0.47
1:A:212:LEU:HD12	1:A:215:LEU:HD12	1.96	0.47
1:A:288:ALA:C	1:A:291:ALA:HB3	2.35	0.47
1:A:295:MET:CE	1:A:295:MET:HA	2.45	0.47
1:A:796:ASP:O	1:A:797:VAL:HB	2.14	0.47
1:A:821:VAL:O	1:A:822:LYS:C	2.52	0.47
1:A:867:ALA:O	1:A:870:VAL:HG12	2.14	0.47
1:A:1032:GLN:NE2	1:A:1055:GLU:HB2	2.29	0.47
1:A:1077:GLN:O	1:A:1080:GLU:HB2	2.15	0.47
1:B:159:PHE:HD2	1:B:440:TYR:HH	1.62	0.47
1:B:267:LYS:CA	1:B:270:LEU:HD21	2.45	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:290:THR:HG22	1:B:771:PHE:N	2.30	0.47
1:B:382:ASP:HA	1:B:461:TYR:HH	1.80	0.47
1:B:384:ILE:CG2	1:B:385:GLN:H	2.12	0.47
1:A:106:GLU:OE2	1:A:109:THR:HB	2.15	0.47
1:A:308:LEU:HD13	1:A:755:PHE:CE1	2.50	0.47
1:A:498:LYS:HZ3	1:A:502:GLU:CD	2.18	0.47
1:A:519:LEU:HD11	1:B:925:ARG:CD	2.45	0.47
1:A:533:GLN:O	1:A:536:ALA:HB3	2.14	0.47
1:A:784:LEU:O	1:A:785:ARG:C	2.53	0.47
1:A:786:TYR:O	1:A:787:MET:C	2.52	0.47
1:A:900:PHE:C	1:A:900:PHE:CD1	2.88	0.47
1:A:902:THR:OG1	1:A:908:ARG:HD3	2.15	0.47
1:A:1079:LEU:C	1:A:1081:ARG:H	2.17	0.47
1:A:1225:VAL:HG13	1:A:1225:VAL:O	2.15	0.47
1:A:1229:ARG:O	1:A:1231:SER:N	2.47	0.47
1:B:51:LEU:O	1:B:52:VAL:C	2.52	0.47
1:B:55:LEU:HD23	1:B:55:LEU:C	2.35	0.47
1:B:65:PRO:C	1:B:67:MET:N	2.65	0.47
1:B:140:ILE:HG13	1:B:179:ASN:HB2	1.95	0.47
1:B:212:LEU:HD13	1:B:215:LEU:HD12	1.96	0.47
1:B:249:VAL:O	1:B:249:VAL:HG12	2.15	0.47
1:B:282:ARG:C	1:B:286:LYS:HD3	2.35	0.47
1:B:290:THR:HG21	1:B:771:PHE:HA	1.97	0.47
1:B:315:SER:HB3	1:B:747:ASN:HD22	1.77	0.47
1:B:394:HIS:HB2	1:B:444:ASP:HB3	1.97	0.47
1:B:429:LYS:N	1:B:429:LYS:CD	2.74	0.47
1:B:807:THR:O	1:B:811:THR:HG23	2.14	0.47
1:B:943:ALA:HA	1:B:946:TYR:HE1	1.79	0.47
1:B:976:ALA:O	1:B:979:PHE:HB2	2.14	0.47
1:B:992:PRO:HB2	1:B:996:LYS:HE2	1.96	0.47
1:B:1023:LYS:C	1:B:1025:ASN:H	2.18	0.47
1:B:1101:ASN:O	1:B:1102:VAL:C	2.53	0.47
1:A:144:ARG:NH1	1:A:175:VAL:HG21	2.30	0.47
1:A:332:PHE:O	1:A:335:LEU:HB3	2.14	0.47
1:A:519:LEU:CD1	1:B:925:ARG:HD3	2.45	0.47
1:A:535:ILE:O	1:A:538:ALA:HB3	2.15	0.47
1:A:796:ASP:O	1:A:797:VAL:CB	2.62	0.47
1:B:140:ILE:O	1:B:143:ILE:N	2.48	0.47
1:B:236:THR:O	1:B:239:GLU:HB2	2.15	0.47
1:B:257:ILE:HG23	1:B:258:ARG:N	2.30	0.47
1:B:320:LYS:O	1:B:323:SER:OG	2.32	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:479:THR:O	1:B:482:GLU:HB2	2.15	0.47
1:B:506:TYR:O	1:B:510:MET:HG2	2.14	0.47
1:B:554:THR:HG23	1:B:555:SER:N	2.29	0.47
1:B:779:ILE:HG13	1:B:780:LEU:H	1.79	0.47
1:B:861:VAL:O	1:B:862:PRO:C	2.50	0.47
1:A:136:ALA:O	1:A:139:GLN:HB2	2.15	0.47
1:A:943:ALA:HA	1:A:946:TYR:CE1	2.49	0.47
1:A:992:PRO:HB2	1:A:996:LYS:HZ3	1.76	0.47
1:A:1141:ILE:HG13	1:A:1142:VAL:N	2.30	0.47
1:B:183:GLY:O	1:B:186:ILE:CG1	2.57	0.47
1:B:278:GLU:O	1:B:279:GLU:C	2.53	0.47
1:B:295:MET:HA	1:B:295:MET:CE	2.45	0.47
1:B:321:GLU:O	1:B:322:TYR:C	2.54	0.47
1:B:353:ASN:O	1:B:354:ALA:C	2.53	0.47
1:B:552:GLU:HB3	1:B:555:SER:CB	2.45	0.47
1:B:732:VAL:HG21	1:B:971:LEU:HG	1.97	0.47
1:B:841:THR:O	1:B:845:ILE:HG13	2.14	0.47
1:B:892:ILE:O	1:B:893:ALA:C	2.53	0.47
1:B:1141:ILE:HG13	1:B:1142:VAL:N	2.30	0.47
1:B:1252:THR:HG23	1:B:1255:GLN:CB	2.44	0.47
1:A:100:PHE:HB2	1:A:961:THR:HG23	1.97	0.47
1:A:903:VAL:HG23	1:A:906:LEU:HD12	1.97	0.47
1:B:72:GLY:O	1:B:75:THR:N	2.48	0.47
1:B:144:ARG:NH1	1:B:175:VAL:HG21	2.30	0.47
1:B:362:PHE:HA	1:B:365:ILE:CD1	2.40	0.47
1:B:706:TYR:O	1:B:707:PHE:CG	2.67	0.47
1:B:726:VAL:HA	1:B:729:SER:OG	2.15	0.47
1:B:773:PHE:CD1	1:B:773:PHE:C	2.88	0.47
1:B:1056:VAL:HG13	1:B:1056:VAL:O	2.15	0.47
1:B:1122:SER:O	1:B:1125:GLU:HB2	2.15	0.47
1:A:181:GLY:HA3	1:A:354:ALA:CB	2.44	0.46
1:A:212:LEU:HD13	1:A:215:LEU:HD12	1.95	0.46
1:A:249:VAL:O	1:A:249:VAL:HG12	2.15	0.46
1:A:484:ILE:CG2	1:A:496:ILE:CD1	2.91	0.46
1:A:554:THR:HG23	1:A:555:SER:N	2.31	0.46
1:A:849:TYR:OH	1:A:976:ALA:HB2	2.15	0.46
1:A:992:PRO:C	1:A:994:TYR:N	2.68	0.46
1:A:1043:ARG:N	1:A:1044:PRO:CD	2.78	0.46
1:A:1249:GLU:CD	1:A:1262:ILE:HB	2.35	0.46
1:B:64:LEU:HD11	1:B:945:MET:HE2	1.97	0.46
1:B:202:ILE:CD1	1:B:203:GLY:H	2.19	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:263:PHE:HD1	1:B:1188:ARG:NH2	2.14	0.46
1:B:314:THR:HG22	1:B:315:SER:N	2.30	0.46
1:B:538:ALA:O	1:B:541:LEU:HB3	2.15	0.46
1:B:882:ASP:O	1:B:886:LEU:HG	2.16	0.46
1:B:885:GLU:CB	1:B:923:PRO:HG3	2.45	0.46
1:B:1127:ILE:O	1:B:1129:TYR:N	2.36	0.46
1:B:1127:ILE:C	1:B:1129:TYR:H	2.17	0.46
1:A:90:ASN:HB2	1:A:91:MET:HE3	1.97	0.46
1:A:135:ALA:O	1:A:136:ALA:C	2.53	0.46
1:A:165:GLY:O	1:A:168:ASN:OD1	2.34	0.46
1:A:218:SER:CB	1:A:219:PRO:HD3	2.43	0.46
1:A:261:ILE:C	1:A:263:PHE:N	2.64	0.46
1:A:382:ASP:OD2	1:A:382:ASP:N	2.47	0.46
1:A:397:TYR:CB	1:A:398:PRO:HD2	2.46	0.46
1:A:711:ILE:CD1	1:A:832:ILE:CD1	2.94	0.46
1:A:718:GLY:HA3	1:A:837:ALA:HB2	1.97	0.46
1:A:894:THR:O	1:A:896:ALA:N	2.48	0.46
1:A:1255:GLN:O	1:A:1258:ALA:HB3	2.16	0.46
1:B:90:ASN:HB2	1:B:91:MET:HE3	1.96	0.46
1:B:348:ILE:O	1:B:349:GLU:C	2.52	0.46
1:B:734:VAL:CG1	1:B:735:PHE:N	2.79	0.46
1:B:791:SER:O	1:B:795:GLN:CB	2.60	0.46
1:B:1014:ILE:O	1:B:1015:ASP:CG	2.53	0.46
1:B:1216:LYS:HA	1:B:1216:LYS:CE	2.34	0.46
1:A:59:ILE:C	1:A:59:ILE:HD12	2.36	0.46
1:A:210:LEU:HD23	1:A:317:VAL:CG1	2.41	0.46
1:A:236:THR:O	1:A:239:GLU:HB2	2.14	0.46
1:A:318:ILE:O	1:A:735:PHE:HZ	1.99	0.46
1:A:460:ARG:O	1:A:461:TYR:C	2.53	0.46
1:A:716:ILE:HG13	1:A:717:ASN:N	2.30	0.46
1:A:1214:LEU:HD23	1:A:1214:LEU:C	2.36	0.46
1:B:62:VAL:C	1:B:65:PRO:HD2	2.36	0.46
1:B:536:ALA:O	1:B:537:ILE:C	2.54	0.46
1:B:604:GLU:OE1	1:B:617:ILE:HB	2.15	0.46
1:B:908:ARG:HD2	1:B:908:ARG:N	2.30	0.46
1:B:1137:SER:HB3	1:B:1140:GLU:HB3	1.96	0.46
1:A:65:PRO:O	1:A:66:LEU:C	2.53	0.46
1:A:128:GLN:O	1:A:129:VAL:C	2.51	0.46
1:A:348:ILE:O	1:A:349:GLU:C	2.52	0.46
1:A:604:GLU:OE2	1:A:616:GLY:HA3	2.15	0.46
1:A:908:ARG:O	1:A:911:LYS:N	2.49	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:962:GLN:O	1:A:963:GLN:CB	2.63	0.46
1:A:1092:LEU:HD23	1:A:1093:ASP:N	2.30	0.46
1:B:35:VAL:HG21	1:B:355:ARG:NH2	2.29	0.46
1:B:137:GLY:O	1:B:138:ARG:C	2.54	0.46
1:B:218:SER:O	1:B:219:PRO:C	2.52	0.46
1:B:281:LYS:O	1:B:285:ILE:HB	2.15	0.46
1:B:528:SER:OG	1:B:531:GLN:HG3	2.15	0.46
1:B:578:THR:OG1	1:B:579:ILE:N	2.48	0.46
1:B:721:GLN:O	1:B:722:PRO:C	2.51	0.46
1:B:994:TYR:N	1:B:996:LYS:HZ1	2.13	0.46
1:B:1225:VAL:HG13	1:B:1225:VAL:O	2.14	0.46
1:A:35:VAL:HA	1:A:359:TYR:CD2	2.50	0.46
1:A:38:MET:O	1:A:39:PHE:C	2.54	0.46
1:A:71:PHE:CZ	1:A:328:LEU:HD11	2.51	0.46
1:A:308:LEU:HD12	1:A:751:PHE:CE2	2.51	0.46
1:A:353:ASN:O	1:A:354:ALA:C	2.53	0.46
1:A:428:GLY:O	1:A:432:THR:HG23	2.16	0.46
1:A:532:LYS:O	1:A:533:GLN:C	2.53	0.46
1:A:604:GLU:OE1	1:A:617:ILE:HB	2.14	0.46
1:A:770:GLY:HA2	1:A:773:PHE:CE2	2.50	0.46
1:A:882:ASP:O	1:A:886:LEU:HG	2.15	0.46
1:A:902:THR:CA	1:A:904:VAL:HG12	2.46	0.46
1:A:1019:THR:O	1:A:1020:GLN:HB3	2.14	0.46
1:A:1080:GLU:CD	1:A:1109:LEU:HD12	2.36	0.46
1:B:214:ILE:O	1:B:215:LEU:C	2.54	0.46
1:B:311:TRP:CZ2	1:B:728:PHE:CE2	3.04	0.46
1:B:386:GLY:HA3	1:B:450:ASP:CA	2.37	0.46
1:B:921:GLN:CG	1:B:922:ILE:HD12	2.44	0.46
1:B:969:ASN:O	1:B:972:LEU:HB2	2.15	0.46
1:B:1022:LEU:O	1:B:1026:MET:HG2	2.16	0.46
1:A:137:GLY:O	1:A:138:ARG:C	2.53	0.46
1:A:257:ILE:HG23	1:A:258:ARG:N	2.30	0.46
1:A:730:LYS:HZ3	1:A:750:LEU:HD21	1.80	0.46
1:A:841:THR:O	1:A:845:ILE:HG13	2.15	0.46
1:A:1093:ASP:C	1:A:1093:ASP:OD2	2.53	0.46
1:B:59:ILE:C	1:B:59:ILE:HD12	2.36	0.46
1:B:266:GLN:HB2	1:B:270:LEU:CD2	2.46	0.46
1:B:270:LEU:H	1:B:270:LEU:CD2	2.16	0.46
1:B:286:LYS:HE2	1:B:778:GLU:HG3	1.97	0.46
1:B:288:ALA:C	1:B:291:ALA:HB3	2.35	0.46
1:B:749:ASN:C	1:B:749:ASN:ND2	2.68	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:800:PHE:HA	1:B:803:PRO:HB3	1.97	0.46
1:B:962:GLN:O	1:B:963:GLN:CB	2.63	0.46
1:B:1043:ARG:N	1:B:1044:PRO:CD	2.79	0.46
1:B:1092:LEU:HD23	1:B:1093:ASP:N	2.30	0.46
1:B:1092:LEU:O	1:B:1093:ASP:HB3	2.16	0.46
1:A:1078:LEU:O	1:A:1081:ARG:N	2.48	0.46
1:A:1270:GLN:O	1:A:1271:ALA:C	2.53	0.46
1:B:131:PHE:CZ	1:B:185:LYS:NZ	2.75	0.46
1:B:356:GLY:O	1:B:357:ALA:C	2.54	0.46
1:B:727:ILE:HD11	1:B:753:LEU:CG	2.46	0.46
1:B:1079:LEU:C	1:B:1081:ARG:N	2.67	0.46
1:B:1142:VAL:HG22	1:B:1161:TYR:HE1	1.80	0.46
1:A:528:SER:OG	1:A:531:GLN:HG3	2.16	0.46
1:A:543:ARG:NH1	1:A:905:SER:HB3	2.31	0.46
1:A:1056:VAL:HG23	1:A:1060:GLN:HE22	1.81	0.46
1:A:1154:ILE:CD1	1:A:1161:TYR:CE2	2.96	0.46
1:B:207:GLY:HA3	1:B:211:THR:CA	2.44	0.46
1:B:267:LYS:HA	1:B:270:LEU:HD21	1.98	0.46
1:B:318:ILE:HD12	1:B:324:ILE:H	1.79	0.46
1:B:466:ILE:HD12	1:B:466:ILE:N	2.31	0.46
1:B:585:LEU:HD12	1:B:618:TYR:CE1	2.43	0.46
1:B:902:THR:CA	1:B:904:VAL:HG12	2.46	0.46
1:B:1033:PHE:CD1	1:B:1036:VAL:HG22	2.51	0.46
1:A:72:GLY:O	1:A:73:ASP:C	2.54	0.46
1:A:183:GLY:O	1:A:184:ASP:C	2.54	0.46
1:A:475:LEU:HD12	1:A:532:LYS:HG2	1.98	0.46
1:A:729:SER:CB	1:A:971:LEU:HB3	2.46	0.46
1:A:885:GLU:CB	1:A:923:PRO:HG3	2.46	0.46
1:A:1252:THR:HG23	1:A:1255:GLN:CB	2.45	0.46
1:B:113:TYR:OH	1:B:950:ALA:HA	2.15	0.46
1:B:118:GLY:HA3	1:B:946:TYR:CZ	2.50	0.46
1:B:199:GLY:HA2	1:B:334:VAL:HG23	1.97	0.46
1:B:762:SER:O	1:B:763:PHE:C	2.53	0.46
1:B:817:ASP:O	1:B:821:VAL:HG13	2.16	0.46
1:B:849:TYR:OH	1:B:976:ALA:HB2	2.16	0.46
1:B:1131:ASP:OD1	1:B:1134:ARG:HG3	2.15	0.46
1:A:55:LEU:O	1:A:56:ALA:C	2.53	0.46
1:A:449:ILE:HD13	1:A:449:ILE:C	2.35	0.46
1:A:549:LEU:N	1:A:549:LEU:CD1	2.79	0.46
1:A:775:LYS:O	1:A:776:ALA:C	2.54	0.46
1:A:817:ASP:O	1:A:821:VAL:HG13	2.15	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1131:ASP:OD1	1:A:1134:ARG:HG3	2.15	0.46
1:B:165:GLY:O	1:B:168:ASN:OD1	2.34	0.46
1:B:203:GLY:O	1:B:215:LEU:HD21	2.16	0.46
1:B:411:LEU:HD23	1:B:411:LEU:C	2.37	0.46
1:B:475:LEU:HD12	1:B:532:LYS:HG2	1.98	0.46
1:B:1057:LYS:H	1:B:1060:GLN:NE2	2.13	0.46
1:B:1080:GLU:CD	1:B:1109:LEU:HD12	2.36	0.46
1:B:1093:ASP:C	1:B:1093:ASP:OD2	2.55	0.46
1:A:227:ILE:HG22	1:A:228:TRP:N	2.31	0.45
1:A:472:GLU:OE1	1:A:472:GLU:HA	2.15	0.45
1:A:904:VAL:CG1	1:A:905:SER:N	2.78	0.45
1:A:974:PHE:O	1:A:978:VAL:HG12	2.15	0.45
1:A:1095:LYS:H	1:A:1095:LYS:CD	2.29	0.45
1:A:1148:ALA:HB1	1:A:1179:ARG:O	2.14	0.45
1:A:1193:LEU:HB2	1:A:1223:CYS:CB	2.45	0.45
1:B:585:LEU:H	1:B:585:LEU:CD2	2.26	0.45
1:B:705:PRO:O	1:B:706:TYR:HB3	2.16	0.45
1:B:790:LYS:O	1:B:793:LEU:N	2.49	0.45
1:B:796:ASP:O	1:B:797:VAL:HB	2.15	0.45
1:B:851:TRP:CA	1:B:854:THR:HB	2.26	0.45
1:B:1078:LEU:C	1:B:1081:ARG:H	2.20	0.45
1:A:68:MET:HA	1:A:68:MET:HE2	1.98	0.45
1:A:458:ASN:HD22	1:A:459:VAL:N	2.11	0.45
1:A:489:GLU:O	1:A:491:VAL:HG12	2.16	0.45
1:A:921:GLN:HG2	1:A:922:ILE:HD13	1.98	0.45
1:A:932:HIS:O	1:A:933:VAL:C	2.55	0.45
1:A:976:ALA:O	1:A:979:PHE:HB2	2.16	0.45
1:A:1196:ASP:HA	1:A:1226:ILE:CG1	2.47	0.45
1:B:188:MET:HB2	1:B:347:ASN:HB3	1.97	0.45
1:B:235:PHE:O	1:B:239:GLU:HG2	2.16	0.45
1:B:394:HIS:O	1:B:443:LEU:HB3	2.17	0.45
1:B:433:VAL:O	1:B:434:GLN:C	2.54	0.45
1:B:734:VAL:HG11	1:B:746:GLN:HB3	1.98	0.45
1:B:770:GLY:HA2	1:B:773:PHE:CE2	2.50	0.45
1:B:890:GLY:O	1:B:893:ALA:HB3	2.16	0.45
1:B:908:ARG:O	1:B:911:LYS:N	2.49	0.45
1:B:1079:LEU:C	1:B:1081:ARG:H	2.18	0.45
1:A:345:SER:O	1:A:346:PRO:C	2.53	0.45
1:A:463:ARG:HG3	1:A:463:ARG:NH1	2.32	0.45
1:A:504:ASN:HB3	1:A:571:LYS:NZ	2.32	0.45
1:B:72:GLY:O	1:B:73:ASP:C	2.55	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:133:CYS:HB2	1:B:931:ALA:HB1	1.98	0.45
1:B:139:GLN:O	1:B:140:ILE:C	2.54	0.45
1:B:257:ILE:O	1:B:257:ILE:HD13	2.16	0.45
1:B:381:PRO:HD2	1:B:461:TYR:CE2	2.51	0.45
1:B:478:THR:HG22	1:B:482:GLU:HG3	1.99	0.45
1:B:527:LEU:N	1:B:527:LEU:CD2	2.77	0.45
1:B:717:ASN:ND2	1:B:765:THR:CG2	2.79	0.45
1:B:821:VAL:CG2	1:B:822:LYS:N	2.80	0.45
1:B:948:SER:O	1:B:952:CYS:HB2	2.15	0.45
1:B:964:LEU:CD1	1:B:965:MET:H	2.18	0.45
1:B:1150:ILE:HD13	1:B:1176:GLN:HA	1.98	0.45
1:A:57:ALA:O	1:A:60:HIS:HB3	2.17	0.45
1:A:235:PHE:O	1:A:239:GLU:HG2	2.16	0.45
1:A:693:PHE:O	1:A:694:TRP:HB2	2.15	0.45
1:A:710:GLY:O	1:A:711:ILE:C	2.55	0.45
1:A:789:PHE:O	1:A:792:MET:HB2	2.16	0.45
1:A:804:LYS:N	1:A:804:LYS:HE3	2.32	0.45
1:A:820:GLN:CB	1:A:1000:SER:HB2	2.46	0.45
1:A:992:PRO:HB2	1:A:996:LYS:HE2	1.98	0.45
1:A:1063:ALA:CB	1:A:1239:ILE:HG13	2.46	0.45
1:A:1142:VAL:HG22	1:A:1161:TYR:HE1	1.80	0.45
1:B:212:LEU:C	1:B:214:ILE:N	2.66	0.45
1:B:359:TYR:O	1:B:362:PHE:HB3	2.16	0.45
1:B:580:VAL:HG22	1:B:581:ILE:N	2.31	0.45
1:B:785:ARG:O	1:B:786:TYR:C	2.54	0.45
1:B:949:TYR:HE2	1:B:977:ILE:HG21	1.82	0.45
1:B:1036:VAL:CG1	1:B:1052:LEU:HB3	2.45	0.45
1:B:1206:SER:O	1:B:1207:GLU:C	2.55	0.45
1:A:286:LYS:CA	1:A:289:ILE:HB	2.40	0.45
1:A:413:VAL:HG21	1:A:419:VAL:CG1	2.47	0.45
1:A:533:GLN:HA	1:A:533:GLN:OE1	2.17	0.45
1:A:578:THR:OG1	1:A:579:ILE:N	2.47	0.45
1:A:717:ASN:ND2	1:A:765:THR:CG2	2.79	0.45
1:A:907:THR:N	1:A:908:ARG:NE	2.64	0.45
1:A:1020:GLN:HB3	1:A:1100:LEU:HD12	1.97	0.45
1:A:1032:GLN:HE21	1:A:1055:GLU:CB	2.29	0.45
1:A:1101:ASN:OD1	1:A:1103:GLN:HB3	2.17	0.45
1:B:71:PHE:HD2	1:B:71:PHE:O	1.98	0.45
1:B:114:TYR:CB	1:B:950:ALA:CB	2.95	0.45
1:B:114:TYR:HB3	1:B:950:ALA:CB	2.46	0.45
1:B:326:GLN:HE21	1:B:329:THR:HG1	1.60	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:390:PHE:HZ	1:B:436:MET:HG2	1.82	0.45
1:B:428:GLY:O	1:B:431:THR:HB	2.16	0.45
1:B:504:ASN:HB3	1:B:571:LYS:NZ	2.31	0.45
1:B:922:ILE:HB	1:B:923:PRO:CD	2.45	0.45
1:B:972:LEU:O	1:B:975:SER:CB	2.63	0.45
1:B:993:ASP:C	1:B:995:ALA:H	2.19	0.45
1:A:316:LEU:C	1:A:318:ILE:H	2.20	0.45
1:A:359:TYR:O	1:A:362:PHE:HB3	2.17	0.45
1:A:519:LEU:H	1:A:519:LEU:HD22	1.80	0.45
1:A:528:SER:O	1:A:529:GLY:C	2.53	0.45
1:A:762:SER:O	1:A:763:PHE:C	2.53	0.45
1:A:779:ILE:HG13	1:A:780:LEU:H	1.82	0.45
1:A:846:SER:C	1:A:849:TYR:HB2	2.37	0.45
1:A:906:LEU:C	1:A:908:ARG:HD2	2.37	0.45
1:A:1033:PHE:CD1	1:A:1036:VAL:HG22	2.52	0.45
1:A:1036:VAL:CG1	1:A:1052:LEU:HB3	2.45	0.45
1:A:1119:PHE:O	1:A:1165:VAL:HG11	2.17	0.45
1:B:71:PHE:CZ	1:B:328:LEU:HD11	2.52	0.45
1:B:114:TYR:HB3	1:B:950:ALA:HB2	1.99	0.45
1:B:269:GLU:O	1:B:270:LEU:C	2.54	0.45
1:B:318:ILE:CD1	1:B:324:ILE:H	2.29	0.45
1:B:346:PRO:O	1:B:349:GLU:HB3	2.16	0.45
1:B:535:ILE:O	1:B:536:ALA:C	2.54	0.45
1:B:690:PRO:O	1:B:691:ALA:C	2.54	0.45
1:A:55:LEU:C	1:A:55:LEU:HD23	2.36	0.45
1:A:136:ALA:HB2	1:A:182:ILE:CG2	2.47	0.45
1:A:152:MET:HG3	1:A:909:GLU:HG3	1.98	0.45
1:A:200:PHE:O	1:A:201:ILE:C	2.54	0.45
1:A:208:TRP:O	1:A:209:LYS:HE3	2.17	0.45
1:A:426:GLY:O	1:A:427:CYS:HB2	2.17	0.45
1:A:992:PRO:HB2	1:A:996:LYS:HZ1	1.79	0.45
1:B:140:ILE:O	1:B:141:HIS:C	2.55	0.45
1:B:322:TYR:CE2	1:B:327:VAL:HG12	2.52	0.45
1:B:472:GLU:OE1	1:B:472:GLU:HA	2.16	0.45
1:B:528:SER:O	1:B:529:GLY:C	2.55	0.45
1:B:559:THR:O	1:B:562:GLU:N	2.49	0.45
1:B:711:ILE:HG23	1:B:712:PHE:N	2.32	0.45
1:B:729:SER:CB	1:B:971:LEU:HB3	2.47	0.45
1:B:852:GLN:O	1:B:856:LEU:HB3	2.16	0.45
1:B:1056:VAL:HG23	1:B:1060:GLN:HE22	1.81	0.45
1:B:1195:LEU:N	1:B:1195:LEU:CD1	2.80	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:65:PRO:C	1:A:67:MET:N	2.67	0.45
1:A:270:LEU:HB3	1:A:789:PHE:CE1	2.52	0.45
1:A:529:GLY:HA2	1:A:532:LYS:HD3	1.97	0.45
1:A:566:GLN:HA	1:A:569:LEU:CD1	2.47	0.45
1:A:603:VAL:CG2	1:A:604:GLU:H	2.09	0.45
1:A:718:GLY:CA	1:A:837:ALA:CB	2.94	0.45
1:A:788:VAL:HG21	1:A:1004:ILE:HD11	1.98	0.45
1:A:1022:LEU:O	1:A:1022:LEU:HD22	2.17	0.45
1:A:1029:GLY:O	1:A:1031:VAL:HG23	2.16	0.45
1:B:248:ALA:C	1:B:250:ALA:N	2.68	0.45
1:B:301:LEU:O	1:B:304:ALA:HB3	2.17	0.45
1:B:431:THR:O	1:B:435:LEU:HD23	2.17	0.45
1:B:792:MET:HA	1:B:795:GLN:HB2	1.98	0.45
1:B:834:GLN:O	1:B:835:ASN:O	2.35	0.45
1:B:1035:GLY:C	1:B:1052:LEU:O	2.55	0.45
1:B:1095:LYS:H	1:B:1095:LYS:CD	2.30	0.45
1:A:150:ALA:O	1:A:151:ILE:C	2.55	0.45
1:A:248:ALA:C	1:A:250:ALA:N	2.71	0.45
1:A:295:MET:O	1:A:298:ALA:N	2.50	0.45
1:A:466:ILE:HD12	1:A:466:ILE:N	2.32	0.45
1:A:792:MET:HA	1:A:795:GLN:HB2	1.98	0.45
1:A:812:THR:O	1:A:813:ARG:C	2.54	0.45
1:B:68:MET:HA	1:B:68:MET:HE1	1.97	0.45
1:B:175:VAL:CG1	1:B:176:SER:N	2.79	0.45
1:B:286:LYS:HE3	1:B:822:LYS:HZ1	1.81	0.45
1:B:366:ASP:O	1:B:367:ASN:C	2.55	0.45
1:B:531:GLN:O	1:B:532:LYS:C	2.55	0.45
1:B:711:ILE:CD1	1:B:832:ILE:CD1	2.94	0.45
1:B:820:GLN:HG3	1:B:1000:SER:HB2	1.98	0.45
1:B:1037:VAL:HA	1:B:1049:LEU:O	2.16	0.45
1:A:314:THR:HG22	1:A:315:SER:N	2.31	0.45
1:A:322:TYR:CE2	1:A:327:VAL:HG12	2.52	0.45
1:A:389:GLU:OE1	1:A:412:LYS:HB2	2.16	0.45
1:A:734:VAL:CG1	1:A:735:PHE:N	2.79	0.45
1:A:810:LEU:O	1:A:811:THR:C	2.55	0.45
1:A:1094:GLY:O	1:A:1095:LYS:O	2.35	0.45
1:B:549:LEU:N	1:B:549:LEU:CD1	2.79	0.45
1:B:716:ILE:HG13	1:B:717:ASN:N	2.30	0.45
1:B:728:PHE:O	1:B:732:VAL:HG22	2.17	0.45
1:B:903:VAL:HG23	1:B:906:LEU:HD12	1.98	0.45
1:B:1248:LYS:CG	1:B:1262:ILE:HD12	2.46	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:35:VAL:HG21	1:A:355:ARG:NH2	2.29	0.44
1:A:52:VAL:O	1:A:53:GLY:C	2.53	0.44
1:A:132:TRP:HB2	1:A:186:ILE:HG12	1.99	0.44
1:A:140:ILE:O	1:A:143:ILE:N	2.50	0.44
1:A:214:ILE:O	1:A:215:LEU:C	2.56	0.44
1:A:278:GLU:O	1:A:282:ARG:NH1	2.49	0.44
1:A:370:SER:OG	1:A:374:PHE:CD1	2.65	0.44
1:A:388:LEU:N	1:A:388:LEU:CD1	2.80	0.44
1:A:693:PHE:O	1:A:693:PHE:CD1	2.70	0.44
1:B:50:MET:O	1:B:51:LEU:C	2.55	0.44
1:B:270:LEU:HD23	1:B:270:LEU:N	2.17	0.44
1:B:326:GLN:O	1:B:327:VAL:C	2.55	0.44
1:B:537:ILE:O	1:B:540:ALA:N	2.51	0.44
1:B:899:ASN:HA	1:B:901:ARG:CZ	2.47	0.44
1:B:913:GLU:OE2	1:B:913:GLU:CA	2.64	0.44
1:B:972:LEU:HA	1:B:975:SER:OG	2.18	0.44
1:B:1064:LEU:HB3	1:B:1226:ILE:HA	1.98	0.44
1:A:303:TYR:O	1:A:306:TYR:N	2.50	0.44
1:A:404:GLN:HG2	1:A:404:GLN:O	2.18	0.44
1:A:464:GLU:C	1:A:466:ILE:H	2.20	0.44
1:A:580:VAL:HG22	1:A:581:ILE:N	2.32	0.44
1:A:721:GLN:HG3	1:A:979:PHE:CE1	2.51	0.44
1:A:788:VAL:O	1:A:789:PHE:C	2.54	0.44
1:A:821:VAL:C	1:A:823:GLY:N	2.69	0.44
1:A:1037:VAL:HG22	1:A:1087:ALA:HB3	1.99	0.44
1:A:1156:SER:O	1:A:1157:LEU:O	2.35	0.44
1:A:1178:GLN:OE1	1:A:1178:GLN:HA	2.17	0.44
1:B:136:ALA:HB2	1:B:182:ILE:CG2	2.47	0.44
1:B:314:THR:HG23	1:B:327:VAL:CG2	2.42	0.44
1:B:463:ARG:HG3	1:B:463:ARG:NH1	2.32	0.44
1:B:800:PHE:C	1:B:803:PRO:HD3	2.35	0.44
1:B:974:PHE:CB	2:B:6004:2J8:SE2	3.09	0.44
1:B:1179:ARG:O	1:B:1182:ILE:HB	2.18	0.44
1:A:109:THR:O	1:A:113:TYR:HB3	2.17	0.44
1:A:131:PHE:CZ	1:A:186:ILE:HG22	2.53	0.44
1:A:147:PHE:CG	1:A:365:ILE:HG12	2.52	0.44
1:A:175:VAL:CG1	1:A:176:SER:N	2.76	0.44
1:A:257:ILE:HG13	1:A:800:PHE:CD2	2.52	0.44
1:A:308:LEU:HA	1:A:751:PHE:HE2	1.81	0.44
1:A:471:GLN:OE1	1:A:472:GLU:N	2.46	0.44
1:A:732:VAL:O	1:A:736:THR:HG23	2.18	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:764:ILE:HG22	1:A:768:LEU:HD23	2.00	0.44
1:A:894:THR:HA	1:A:897:ILE:HD11	1.97	0.44
1:A:1027:LEU:N	1:A:1027:LEU:CD1	2.81	0.44
1:A:1150:ILE:HD13	1:A:1176:GLN:HA	1.99	0.44
1:B:174:ASP:O	1:B:175:VAL:C	2.54	0.44
1:B:210:LEU:C	1:B:212:LEU:N	2.66	0.44
1:B:506:TYR:O	1:B:509:ILE:HG13	2.17	0.44
1:B:509:ILE:HD13	1:B:516:PHE:CE1	2.52	0.44
1:B:519:LEU:H	1:B:519:LEU:HD22	1.82	0.44
1:B:537:ILE:O	1:B:539:ARG:N	2.51	0.44
1:B:539:ARG:O	1:B:542:VAL:N	2.50	0.44
1:B:836:ILE:O	1:B:837:ALA:C	2.55	0.44
1:B:846:SER:C	1:B:849:TYR:HB2	2.37	0.44
1:B:849:TYR:CD1	1:B:854:THR:HA	2.44	0.44
1:B:907:THR:C	1:B:908:ARG:NE	2.59	0.44
1:B:1063:ALA:CB	1:B:1239:ILE:HG13	2.46	0.44
1:B:1119:PHE:O	1:B:1165:VAL:HG11	2.16	0.44
1:B:1217:ALA:O	1:B:1221:ARG:HD3	2.16	0.44
1:A:509:ILE:HD13	1:A:516:PHE:CE1	2.52	0.44
1:A:510:MET:SD	1:A:515:GLN:OE1	2.76	0.44
1:A:609:ASP:O	1:A:613:ARG:HB2	2.18	0.44
1:A:899:ASN:HA	1:A:901:ARG:CZ	2.47	0.44
1:A:996:LYS:HD3	1:A:996:LYS:N	2.12	0.44
1:A:1011:THR:O	1:A:1012:PRO:C	2.55	0.44
1:A:1023:LYS:HD2	1:A:1095:LYS:NZ	2.32	0.44
1:A:1128:ALA:HB2	1:A:1141:ILE:CG2	2.38	0.44
1:B:132:TRP:HB2	1:B:186:ILE:HG12	1.99	0.44
1:B:282:ARG:HD3	1:B:286:LYS:HZ3	1.82	0.44
1:B:543:ARG:NH1	1:B:905:SER:CB	2.76	0.44
1:B:718:GLY:HA3	1:B:837:ALA:HB2	1.99	0.44
1:B:1038:PHE:CD1	1:B:1039:ASN:N	2.85	0.44
1:B:1101:ASN:OD1	1:B:1103:GLN:HB3	2.18	0.44
1:A:120:GLY:O	1:A:121:VAL:C	2.56	0.44
1:A:266:GLN:HB2	1:A:270:LEU:CD2	2.47	0.44
1:A:286:LYS:CE	1:A:822:LYS:HZ2	2.30	0.44
1:A:406:LEU:HD11	1:A:432:THR:HG22	1.97	0.44
1:A:468:VAL:CG2	1:A:549:LEU:HD13	2.47	0.44
1:A:536:ALA:O	1:A:537:ILE:O	2.36	0.44
1:A:791:SER:O	1:A:795:GLN:CB	2.62	0.44
1:A:821:VAL:CG2	1:A:822:LYS:N	2.80	0.44
1:A:921:GLN:HG2	1:A:922:ILE:HD12	1.99	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:972:LEU:HA	1:A:975:SER:OG	2.18	0.44
1:A:1033:PHE:O	1:A:1053:SER:HA	2.17	0.44
1:A:1195:LEU:O	1:A:1226:ILE:HG13	2.18	0.44
1:B:39:PHE:CZ	1:B:178:ILE:HG23	2.53	0.44
1:B:239:GLU:O	1:B:243:TYR:HB2	2.17	0.44
1:B:431:THR:O	1:B:432:THR:C	2.55	0.44
1:B:764:ILE:HG22	1:B:768:LEU:HD23	2.00	0.44
1:B:788:VAL:O	1:B:791:SER:HB2	2.18	0.44
1:B:938:PHE:O	1:B:941:THR:N	2.50	0.44
1:B:974:PHE:CE2	1:B:978:VAL:HB	2.53	0.44
1:B:1156:SER:O	1:B:1157:LEU:O	2.36	0.44
1:A:174:ASP:O	1:A:175:VAL:C	2.54	0.44
1:A:279:GLU:HG2	1:A:782:LYS:CD	2.47	0.44
1:A:411:LEU:HD23	1:A:411:LEU:C	2.38	0.44
1:A:431:THR:O	1:A:434:GLN:HB3	2.18	0.44
1:A:559:THR:O	1:A:562:GLU:N	2.51	0.44
1:A:585:LEU:HD22	1:A:585:LEU:N	2.31	0.44
1:A:915:MET:O	1:A:918:GLN:HB2	2.17	0.44
1:A:1038:PHE:CD1	1:A:1039:ASN:N	2.86	0.44
1:A:1114:GLN:OE1	1:A:1197:GLU:HB2	2.17	0.44
1:A:1204:THR:HG23	1:A:1205:GLU:N	2.33	0.44
1:B:55:LEU:O	1:B:56:ALA:C	2.55	0.44
1:B:78:PHE:HZ	1:B:967:PHE:O	2.01	0.44
1:B:113:TYR:CD1	1:B:113:TYR:C	2.90	0.44
1:B:398:PRO:O	1:B:400:ARG:N	2.47	0.44
1:B:409:LEU:HD13	1:B:409:LEU:C	2.38	0.44
1:B:718:GLY:CA	1:B:837:ALA:CB	2.95	0.44
1:B:727:ILE:HG22	1:B:728:PHE:N	2.33	0.44
1:B:932:HIS:O	1:B:933:VAL:C	2.54	0.44
1:B:977:ILE:O	1:B:980:GLY:N	2.50	0.44
1:B:1032:GLN:HE21	1:B:1055:GLU:CB	2.28	0.44
1:A:112:TYR:CD2	1:A:112:TYR:N	2.85	0.44
1:A:247:GLY:O	1:A:250:ALA:HB3	2.17	0.44
1:A:438:ARG:CZ	1:A:455:ARG:HA	2.48	0.44
1:A:833:PHE:CG	1:A:834:GLN:N	2.86	0.44
1:A:967:PHE:N	1:A:967:PHE:CD2	2.86	0.44
1:A:1014:ILE:CD1	1:A:1106:ARG:HH12	2.27	0.44
1:A:1027:LEU:CD1	1:A:1027:LEU:H	2.30	0.44
1:A:1030:ASN:HA	1:A:1056:VAL:O	2.17	0.44
1:B:52:VAL:O	1:B:53:GLY:C	2.55	0.44
1:B:71:PHE:C	1:B:71:PHE:CD2	2.91	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:81:VAL:HG13	1:B:99:MET:HG3	2.00	0.44
1:B:150:ALA:O	1:B:153:ASN:N	2.41	0.44
1:B:282:ARG:HD3	1:B:282:ARG:HA	1.81	0.44
1:B:361:VAL:O	1:B:365:ILE:CD1	2.63	0.44
1:B:432:THR:O	1:B:433:VAL:C	2.55	0.44
1:B:460:ARG:O	1:B:461:TYR:C	2.54	0.44
1:B:468:VAL:CG2	1:B:549:LEU:HD13	2.47	0.44
1:B:688:VAL:HB	1:B:1006:ARG:HH22	1.82	0.44
1:B:885:GLU:HB3	1:B:923:PRO:CG	2.48	0.44
1:B:957:ALA:O	1:B:958:TYR:C	2.56	0.44
1:B:1196:ASP:HA	1:B:1226:ILE:CG1	2.48	0.44
1:B:1202:LEU:HG	1:B:1203:ASP:N	2.21	0.44
1:B:1249:GLU:CD	1:B:1262:ILE:HB	2.37	0.44
1:A:258:ARG:O	1:A:261:ILE:N	2.51	0.44
1:A:267:LYS:HB3	1:A:790:LYS:HE3	1.99	0.44
1:A:282:ARG:HD3	1:A:282:ARG:HA	1.82	0.44
1:A:303:TYR:O	1:A:306:TYR:CB	2.60	0.44
1:A:449:ILE:HG21	1:A:457:ILE:HD13	2.00	0.44
1:A:476:PHE:O	1:A:520:VAL:HB	2.18	0.44
1:A:711:ILE:O	1:A:714:ALA:HB3	2.17	0.44
1:A:726:VAL:HA	1:A:729:SER:OG	2.18	0.44
1:A:925:ARG:HG2	1:B:514:HIS:ND1	2.33	0.44
1:A:974:PHE:CE2	1:A:978:VAL:HB	2.52	0.44
1:A:1023:LYS:HD2	1:A:1095:LYS:CE	2.48	0.44
1:A:1195:LEU:N	1:A:1195:LEU:CD1	2.81	0.44
1:B:227:ILE:HG22	1:B:228:TRP:N	2.32	0.44
1:B:280:ALA:C	1:B:282:ARG:H	2.21	0.44
1:B:431:THR:HG22	1:B:435:LEU:HD23	1.99	0.44
1:B:449:ILE:HG21	1:B:457:ILE:HD13	2.00	0.44
1:B:510:MET:SD	1:B:515:GLN:OE1	2.76	0.44
1:B:689:PRO:N	1:B:690:PRO:CD	2.81	0.44
1:B:788:VAL:HG21	1:B:1004:ILE:HD11	1.99	0.44
1:B:1252:THR:CG2	1:B:1255:GLN:HB2	2.47	0.44
1:A:39:PHE:CZ	1:A:178:ILE:HG23	2.53	0.44
1:A:147:PHE:CE2	1:A:365:ILE:HG12	2.53	0.44
1:A:214:ILE:HA	1:A:331:PHE:CE2	2.53	0.44
1:A:218:SER:O	1:A:219:PRO:C	2.56	0.44
1:A:927:ALA:HA	1:A:930:LYS:HG2	1.99	0.44
1:A:969:ASN:HD22	1:A:969:ASN:C	2.15	0.44
1:A:969:ASN:O	1:A:972:LEU:HB2	2.18	0.44
1:A:1049:LEU:HD11	1:A:1052:LEU:HD22	2.00	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:112:TYR:N	1:B:112:TYR:CD2	2.86	0.44
1:B:208:TRP:O	1:B:209:LYS:HG2	2.18	0.44
1:B:255:ALA:C	1:B:257:ILE:N	2.71	0.44
1:B:476:PHE:O	1:B:520:VAL:HB	2.18	0.44
1:B:751:PHE:CG	1:B:752:SER:N	2.86	0.44
1:A:113:TYR:CD1	1:A:113:TYR:C	2.91	0.43
1:A:394:HIS:HB2	1:A:444:ASP:HB3	1.99	0.43
1:A:589:ARG:C	1:A:591:ALA:N	2.62	0.43
1:A:711:ILE:HG23	1:A:712:PHE:N	2.33	0.43
1:A:1059:GLY:HA2	1:A:1222:THR:N	2.33	0.43
1:B:60:HIS:O	1:B:63:ALA:CB	2.65	0.43
1:B:71:PHE:C	1:B:71:PHE:HD2	2.22	0.43
1:B:210:LEU:HD23	1:B:317:VAL:CG1	2.41	0.43
1:B:514:HIS:HB2	1:B:518:THR:OG1	2.18	0.43
1:B:710:GLY:O	1:B:711:ILE:C	2.55	0.43
1:B:777:GLY:HA3	1:B:822:LYS:HG3	2.00	0.43
1:B:1064:LEU:C	1:B:1064:LEU:HD13	2.38	0.43
1:A:156:ILE:HG23	1:A:439:LEU:CD1	2.48	0.43
1:A:185:LYS:NZ	1:A:186:ILE:HG22	2.33	0.43
1:A:281:LYS:O	1:A:285:ILE:HB	2.18	0.43
1:A:285:ILE:HG22	1:A:286:LYS:HD2	1.99	0.43
1:A:527:LEU:N	1:A:527:LEU:CD2	2.77	0.43
1:A:751:PHE:CG	1:A:752:SER:N	2.85	0.43
1:A:936:ILE:HG23	1:A:937:THR:H	1.83	0.43
1:A:1037:VAL:HA	1:A:1049:LEU:O	2.18	0.43
1:B:57:ALA:O	1:B:60:HIS:HB3	2.17	0.43
1:B:109:THR:O	1:B:113:TYR:HB3	2.17	0.43
1:B:148:PHE:HD2	1:B:913:GLU:OE2	2.01	0.43
1:B:175:VAL:CG1	1:B:176:SER:H	2.31	0.43
1:B:243:TYR:C	1:B:243:TYR:CD2	2.91	0.43
1:B:388:LEU:HD22	1:B:413:VAL:HG11	2.00	0.43
1:B:509:ILE:HD12	1:B:509:ILE:C	2.39	0.43
1:B:753:LEU:O	1:B:754:LEU:C	2.56	0.43
1:B:1154:ILE:HD12	1:B:1161:TYR:CE2	2.53	0.43
1:A:377:SER:O	1:A:458:ASN:ND2	2.51	0.43
1:A:751:PHE:CD1	1:A:752:SER:N	2.86	0.43
1:A:755:PHE:O	1:A:756:LEU:C	2.56	0.43
1:A:912:PHE:O	1:A:913:GLU:C	2.57	0.43
1:A:993:ASP:C	1:A:995:ALA:H	2.21	0.43
1:A:1075:VAL:O	1:A:1076:VAL:C	2.55	0.43
1:B:159:PHE:HD2	1:B:440:TYR:OH	2.00	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:339:PHE:CZ	2:B:6003:2J8:C21	3.01	0.43
1:B:533:GLN:HA	1:B:533:GLN:OE1	2.18	0.43
1:B:535:ILE:H	1:B:535:ILE:HG12	1.48	0.43
1:B:614:GLU:O	1:B:615:LYS:C	2.56	0.43
1:B:784:LEU:O	1:B:788:VAL:HG23	2.18	0.43
1:B:1049:LEU:HD11	1:B:1052:LEU:HD22	2.00	0.43
1:B:1056:VAL:HG21	1:B:1062:LEU:HB2	2.00	0.43
1:A:139:GLN:O	1:A:140:ILE:C	2.55	0.43
1:A:291:ALA:CA	1:A:294:SER:HB2	2.39	0.43
1:A:361:VAL:C	1:A:365:ILE:HD12	2.38	0.43
1:A:482:GLU:O	1:A:484:ILE:N	2.51	0.43
1:A:538:ALA:O	1:A:539:ARG:C	2.56	0.43
1:A:717:ASN:O	1:A:720:LEU:HB3	2.18	0.43
1:A:727:ILE:HD11	1:A:753:LEU:HD23	2.00	0.43
1:B:428:GLY:O	1:B:432:THR:HG23	2.19	0.43
1:B:592:ASP:O	1:B:593:VAL:HB	2.19	0.43
1:B:821:VAL:HG23	1:B:822:LYS:N	2.34	0.43
1:B:860:ILE:CG2	1:B:948:SER:HB3	2.48	0.43
1:B:1114:GLN:OE1	1:B:1197:GLU:HB2	2.18	0.43
1:B:1193:LEU:HB2	1:B:1223:CYS:CB	2.48	0.43
1:B:1260:LYS:HA	1:B:1264:PHE:HB2	2.00	0.43
1:A:95:ASP:O	1:A:99:MET:HB2	2.18	0.43
1:A:172:THR:O	1:A:175:VAL:CG1	2.66	0.43
1:A:239:GLU:O	1:A:243:TYR:HB2	2.17	0.43
1:A:271:GLU:C	1:A:271:GLU:OE2	2.56	0.43
1:A:287:LYS:HA	1:A:290:THR:OG1	2.19	0.43
1:A:388:LEU:HD22	1:A:413:VAL:HG11	2.01	0.43
1:A:492:THR:HB	1:A:495:GLU:OE2	2.18	0.43
1:A:718:GLY:HA3	1:A:837:ALA:CB	2.48	0.43
1:A:757:ILE:HG23	1:A:761:ILE:HD12	2.01	0.43
1:A:820:GLN:HG3	1:A:1000:SER:HB3	1.95	0.43
1:A:994:TYR:N	1:A:996:LYS:HZ1	2.16	0.43
1:A:1019:THR:OG1	1:A:1101:ASN:CA	2.63	0.43
1:A:1042:THR:O	1:A:1042:THR:HG23	2.18	0.43
1:A:1151:HIS:HA	1:A:1154:ILE:HB	2.01	0.43
1:A:1175:GLY:O	1:A:1179:ARG:HG3	2.17	0.43
1:B:131:PHE:CZ	1:B:186:ILE:HG22	2.52	0.43
1:B:132:TRP:CG	1:B:183:GLY:HA3	2.53	0.43
1:B:183:GLY:O	1:B:184:ASP:C	2.55	0.43
1:B:307:ALA:HB1	1:B:754:LEU:HD22	1.99	0.43
1:B:345:SER:O	1:B:346:PRO:C	2.56	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:387:ASN:N	1:B:450:ASP:HA	2.33	0.43
1:B:1010:LYS:HB3	1:B:1012:PRO:HD2	2.00	0.43
1:A:71:PHE:C	1:A:71:PHE:CD2	2.92	0.43
1:A:71:PHE:O	1:A:71:PHE:HD2	2.02	0.43
1:A:140:ILE:HG13	1:A:179:ASN:ND2	2.23	0.43
1:A:366:ASP:O	1:A:367:ASN:C	2.56	0.43
1:A:857:LEU:O	1:A:860:ILE:N	2.51	0.43
1:A:971:LEU:HD22	1:A:971:LEU:N	2.34	0.43
1:A:1150:ILE:O	1:A:1150:ILE:HG13	2.19	0.43
1:B:158:TRP:O	1:B:158:TRP:HD1	2.01	0.43
1:B:404:GLN:O	1:B:404:GLN:HG2	2.17	0.43
1:B:405:ILE:HD12	1:B:427:CYS:CB	2.48	0.43
1:B:449:ILE:O	1:B:450:ASP:C	2.56	0.43
1:B:721:GLN:HG3	1:B:979:PHE:CE1	2.51	0.43
1:B:722:PRO:HG3	1:B:979:PHE:CZ	2.54	0.43
1:B:802:ASP:CB	1:B:1041:PRO:HB2	2.48	0.43
1:B:927:ALA:HA	1:B:930:LYS:HG2	2.00	0.43
1:A:116:GLY:O	1:A:117:ILE:C	2.56	0.43
1:A:150:ALA:O	1:A:153:ASN:N	2.43	0.43
1:A:480:ILE:C	1:A:482:GLU:N	2.71	0.43
1:A:530:GLY:O	1:A:531:GLN:C	2.56	0.43
1:A:692:SER:OG	1:A:692:SER:O	2.37	0.43
1:A:764:ILE:O	1:A:768:LEU:HD23	2.19	0.43
1:A:785:ARG:NH2	1:A:815:ALA:HA	2.30	0.43
1:A:1252:THR:CG2	1:A:1255:GLN:HB2	2.48	0.43
1:B:271:GLU:OE2	1:B:271:GLU:C	2.57	0.43
1:B:283:LEU:HA	1:B:778:GLU:OE2	2.18	0.43
1:B:438:ARG:CZ	1:B:455:ARG:HA	2.48	0.43
1:B:573:ARG:C	1:B:575:GLY:H	2.22	0.43
1:B:727:ILE:HD11	1:B:753:LEU:HD23	2.00	0.43
1:B:886:LEU:HD12	1:B:886:LEU:C	2.39	0.43
1:B:934:PHE:H	1:B:934:PHE:HD1	1.66	0.43
1:B:1031:VAL:HB	1:B:1056:VAL:CG1	2.49	0.43
1:B:1123:ILE:HG12	1:B:1124:ALA:H	1.82	0.43
1:B:1150:ILE:O	1:B:1150:ILE:HG13	2.18	0.43
1:B:1196:ASP:HA	1:B:1226:ILE:HG13	2.00	0.43
1:A:71:PHE:C	1:A:71:PHE:HD2	2.22	0.43
1:A:114:TYR:CG	1:A:950:ALA:CB	3.01	0.43
1:A:209:LYS:C	1:A:212:LEU:HB3	2.38	0.43
1:A:279:GLU:CG	1:A:782:LYS:HD2	2.48	0.43
1:A:308:LEU:CA	1:A:751:PHE:HE2	2.32	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:369:PRO:O	1:A:370:SER:C	2.57	0.43
1:A:393:ILE:CG1	1:A:409:LEU:HB3	2.48	0.43
1:A:1025:ASN:CG	1:A:1025:ASN:O	2.57	0.43
1:A:1123:ILE:HG12	1:A:1124:ALA:N	2.33	0.43
1:A:1250:HIS:N	1:A:1256:LEU:HD21	2.34	0.43
1:B:136:ALA:CB	1:B:182:ILE:HB	2.40	0.43
1:B:320:LYS:O	1:B:321:GLU:O	2.36	0.43
1:B:389:GLU:OE1	1:B:412:LYS:HB2	2.18	0.43
1:B:1138:TYR:O	1:B:1141:ILE:HG12	2.18	0.43
1:B:1143:ARG:O	1:B:1146:LYS:HB2	2.18	0.43
1:A:170:ARG:HB2	1:A:174:ASP:CG	2.39	0.43
1:A:202:ILE:C	1:A:204:PHE:H	2.22	0.43
1:A:387:ASN:N	1:A:450:ASP:HA	2.33	0.43
1:A:429:LYS:O	1:A:432:THR:OG1	2.30	0.43
1:A:707:PHE:O	1:A:710:GLY:N	2.51	0.43
1:B:247:GLY:O	1:B:250:ALA:HB3	2.18	0.43
1:B:303:TYR:O	1:B:306:TYR:N	2.51	0.43
1:B:389:GLU:O	1:B:447:VAL:HA	2.19	0.43
1:B:435:LEU:HD13	1:B:435:LEU:HA	1.82	0.43
1:B:751:PHE:CD1	1:B:752:SER:N	2.87	0.43
1:B:821:VAL:O	1:B:822:LYS:C	2.58	0.43
1:B:1126:ASN:O	1:B:1129:TYR:CG	2.72	0.43
1:A:81:VAL:HG13	1:A:99:MET:HG3	2.01	0.43
1:A:217:ILE:HD11	1:A:331:PHE:HE2	1.84	0.43
1:A:324:ILE:O	1:A:325:GLY:C	2.58	0.43
1:A:326:GLN:O	1:A:327:VAL:C	2.57	0.43
1:A:356:GLY:O	1:A:357:ALA:C	2.56	0.43
1:A:601:VAL:HG13	1:A:601:VAL:O	2.19	0.43
1:A:727:ILE:HG22	1:A:728:PHE:N	2.34	0.43
1:A:1114:GLN:O	1:A:1116:PRO:HD3	2.19	0.43
1:B:128:GLN:O	1:B:129:VAL:C	2.56	0.43
1:B:135:ALA:O	1:B:136:ALA:C	2.57	0.43
1:B:413:VAL:HG21	1:B:419:VAL:CG1	2.48	0.43
1:B:492:THR:O	1:B:494:ASP:N	2.52	0.43
1:B:520:VAL:CG1	1:B:524:GLY:HA2	2.49	0.43
1:B:756:LEU:O	1:B:760:ILE:HB	2.17	0.43
1:B:784:LEU:O	1:B:785:ARG:C	2.56	0.43
1:B:814:LEU:HD22	1:B:814:LEU:N	2.34	0.43
1:B:1092:LEU:HB3	1:B:1097:ILE:CD1	2.44	0.43
1:B:1109:LEU:HD21	1:B:1188:ARG:NH1	2.33	0.43
1:A:102:LYS:HE3	1:A:102:LYS:CA	2.44	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:282:ARG:HB3	1:A:778:GLU:CG	2.45	0.42
1:A:318:ILE:HD11	1:A:324:ILE:H	1.84	0.42
1:A:421:LEU:HD12	1:A:421:LEU:N	2.34	0.42
1:A:492:THR:O	1:A:494:ASP:N	2.52	0.42
1:A:790:LYS:O	1:A:793:LEU:N	2.52	0.42
1:A:792:MET:CE	1:A:810:LEU:HD22	2.49	0.42
1:A:857:LEU:HD12	1:A:973:VAL:HG13	1.99	0.42
1:A:896:ALA:O	1:A:897:ILE:C	2.56	0.42
1:A:1022:LEU:O	1:A:1022:LEU:HD23	2.18	0.42
1:A:1026:MET:SD	1:A:1104:TRP:CH2	3.12	0.42
1:A:1204:THR:HG23	1:A:1206:SER:H	1.84	0.42
1:A:1229:ARG:HA	1:A:1229:ARG:HD2	1.81	0.42
1:B:54:THR:O	1:B:57:ALA:HB3	2.18	0.42
1:B:266:GLN:HB2	1:B:270:LEU:HD21	2.01	0.42
1:B:278:GLU:O	1:B:282:ARG:NH1	2.52	0.42
1:B:393:ILE:CG1	1:B:409:LEU:HB3	2.49	0.42
1:B:484:ILE:CG2	1:B:542:VAL:HG21	2.46	0.42
1:B:492:THR:HB	1:B:495:GLU:OE2	2.18	0.42
1:B:857:LEU:O	1:B:860:ILE:N	2.52	0.42
1:B:936:ILE:HG23	1:B:937:THR:H	1.83	0.42
1:B:967:PHE:CD2	1:B:967:PHE:N	2.86	0.42
1:B:1143:ARG:HG2	1:B:1143:ARG:HH11	1.83	0.42
1:B:1178:GLN:OE1	1:B:1178:GLN:HA	2.19	0.42
1:A:346:PRO:O	1:A:349:GLU:HB3	2.18	0.42
1:A:389:GLU:O	1:A:447:VAL:HA	2.19	0.42
1:A:402:GLU:CA	1:A:402:GLU:OE2	2.67	0.42
1:A:536:ALA:O	1:A:537:ILE:C	2.58	0.42
1:A:686:GLU:HB2	1:A:687:ASP:H	1.61	0.42
1:A:705:PRO:O	1:A:706:TYR:HB3	2.19	0.42
1:A:722:PRO:HG3	1:A:979:PHE:CZ	2.54	0.42
1:A:722:PRO:CB	1:A:841:THR:HB	2.50	0.42
1:A:810:LEU:O	1:A:813:ARG:N	2.52	0.42
1:A:827:SER:OG	1:A:994:TYR:HD2	2.02	0.42
1:A:993:ASP:O	1:A:994:TYR:HB3	2.18	0.42
1:A:1064:LEU:HD13	1:A:1064:LEU:C	2.39	0.42
1:A:1117:ILE:O	1:A:1184:ARG:NH2	2.53	0.42
1:A:1143:ARG:HG2	1:A:1143:ARG:HH11	1.84	0.42
1:A:1202:LEU:HG	1:A:1203:ASP:N	2.22	0.42
1:B:120:GLY:O	1:B:121:VAL:C	2.56	0.42
1:B:140:ILE:HG13	1:B:179:ASN:ND2	2.23	0.42
1:B:185:LYS:NZ	1:B:186:ILE:HG22	2.34	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:200:PHE:O	1:B:201:ILE:C	2.57	0.42
1:B:304:ALA:CA	1:B:758:LEU:HD23	2.49	0.42
1:B:304:ALA:O	1:B:307:ALA:HB3	2.19	0.42
1:B:473:PRO:HB3	1:B:533:GLN:CA	2.48	0.42
1:B:482:GLU:O	1:B:484:ILE:N	2.52	0.42
1:B:492:THR:C	1:B:494:ASP:H	2.23	0.42
1:B:717:ASN:O	1:B:720:LEU:HB3	2.18	0.42
1:B:827:SER:OG	1:B:994:TYR:HD2	2.02	0.42
1:B:986:GLN:C	1:B:988:SER:H	2.23	0.42
1:A:140:ILE:O	1:A:141:HIS:C	2.57	0.42
1:A:381:PRO:O	1:A:461:TYR:OH	2.33	0.42
1:A:449:ILE:HD13	1:A:450:ASP:HB2	2.01	0.42
1:A:535:ILE:O	1:A:536:ALA:C	2.58	0.42
1:A:708:VAL:CG1	1:A:709:VAL:N	2.83	0.42
1:A:722:PRO:HB2	1:A:841:THR:HG21	2.01	0.42
1:A:892:ILE:CG1	1:A:916:TYR:HE1	2.32	0.42
1:A:1026:MET:HE2	1:A:1095:LYS:HD3	2.01	0.42
1:A:1153:PHE:O	1:A:1157:LEU:HD23	2.19	0.42
1:A:1196:ASP:HA	1:A:1226:ILE:HG13	1.99	0.42
1:B:83:ASN:HD22	1:B:83:ASN:HA	1.53	0.42
1:B:346:PRO:O	1:B:347:ASN:C	2.57	0.42
1:B:375:SER:HB2	1:B:376:LYS:NZ	2.33	0.42
1:B:718:GLY:HA3	1:B:837:ALA:CB	2.49	0.42
1:B:732:VAL:O	1:B:736:THR:HG23	2.19	0.42
1:B:860:ILE:HG21	1:B:948:SER:HB3	2.01	0.42
1:B:912:PHE:O	1:B:913:GLU:C	2.58	0.42
1:B:964:LEU:CD1	1:B:965:MET:N	2.72	0.42
1:B:971:LEU:HD22	1:B:971:LEU:N	2.34	0.42
1:B:972:LEU:CD1	1:B:972:LEU:H	2.31	0.42
1:B:1081:ARG:HG2	1:B:1081:ARG:O	2.19	0.42
1:A:50:MET:O	1:A:51:LEU:C	2.56	0.42
1:A:214:ILE:HG12	1:A:331:PHE:CG	2.53	0.42
1:A:217:ILE:HD11	1:A:331:PHE:CE2	2.55	0.42
1:A:278:GLU:O	1:A:279:GLU:C	2.57	0.42
1:A:293:ILE:HG22	1:A:766:PHE:HB3	2.01	0.42
1:A:409:LEU:HD13	1:A:409:LEU:C	2.39	0.42
1:A:457:ILE:CD1	1:A:462:LEU:HD13	2.50	0.42
1:A:539:ARG:O	1:A:542:VAL:N	2.52	0.42
1:A:708:VAL:O	1:A:709:VAL:C	2.58	0.42
1:A:718:GLY:CA	1:A:837:ALA:HB2	2.50	0.42
1:A:885:GLU:HB3	1:A:923:PRO:CG	2.49	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:897:ILE:O	1:A:898:GLU:C	2.57	0.42
1:A:987:VAL:HG22	1:A:987:VAL:O	2.19	0.42
1:A:1023:LYS:HD2	1:A:1095:LYS:HE2	2.01	0.42
1:A:1035:GLY:C	1:A:1052:LEU:O	2.57	0.42
1:B:74:MET:SD	1:B:953:PHE:CE1	3.13	0.42
1:B:132:TRP:CD2	1:B:183:GLY:CA	3.03	0.42
1:B:433:VAL:O	1:B:436:MET:N	2.41	0.42
1:B:711:ILE:CD1	1:B:832:ILE:HG21	2.27	0.42
1:B:764:ILE:O	1:B:768:LEU:HD23	2.19	0.42
1:B:782:LYS:O	1:B:783:ARG:C	2.57	0.42
1:B:789:PHE:HD2	1:B:789:PHE:O	2.01	0.42
1:B:993:ASP:O	1:B:994:TYR:HB3	2.20	0.42
1:B:1050:GLN:HG2	1:B:1245:GLY:CA	2.49	0.42
1:A:208:TRP:O	1:A:209:LYS:CE	2.68	0.42
1:A:369:PRO:O	1:A:370:SER:O	2.38	0.42
1:A:506:TYR:O	1:A:509:ILE:HG13	2.19	0.42
1:A:753:LEU:O	1:A:754:LEU:C	2.58	0.42
1:A:790:LYS:CB	1:A:794:ARG:NH2	2.82	0.42
1:A:836:ILE:O	1:A:837:ALA:C	2.55	0.42
1:B:212:LEU:O	1:B:214:ILE:N	2.52	0.42
1:B:357:ALA:O	1:B:361:VAL:HG13	2.19	0.42
1:B:388:LEU:N	1:B:388:LEU:CD1	2.81	0.42
1:B:535:ILE:O	1:B:538:ALA:HB3	2.20	0.42
1:B:757:ILE:HG23	1:B:761:ILE:HD12	2.02	0.42
1:B:792:MET:CE	1:B:810:LEU:HD22	2.49	0.42
1:B:859:ALA:O	1:B:863:ILE:CG1	2.60	0.42
1:A:83:ASN:HD22	1:A:83:ASN:HA	1.50	0.42
1:A:114:TYR:O	1:A:115:THR:C	2.55	0.42
1:A:132:TRP:CG	1:A:183:GLY:HA3	2.54	0.42
1:A:727:ILE:CG2	1:A:728:PHE:N	2.83	0.42
1:A:848:ILE:O	1:A:849:TYR:O	2.38	0.42
1:A:972:LEU:CD1	1:A:972:LEU:H	2.33	0.42
1:A:1263:TYR:O	1:A:1266:MET:HB2	2.20	0.42
1:B:47:ARG:O	1:B:48:LEU:C	2.57	0.42
1:B:464:GLU:C	1:B:466:ILE:H	2.22	0.42
1:B:1153:PHE:HA	1:B:1157:LEU:HD23	2.01	0.42
1:A:357:ALA:O	1:A:361:VAL:HG13	2.19	0.42
1:A:584:ARG:O	1:A:585:LEU:C	2.57	0.42
1:A:727:ILE:HD12	1:A:754:LEU:HA	2.01	0.42
1:A:732:VAL:CG2	1:A:971:LEU:HG	2.50	0.42
1:A:821:VAL:HG23	1:A:822:LYS:N	2.34	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:860:ILE:CG2	1:A:948:SER:HB3	2.50	0.42
1:B:75:THR:HB	1:B:326:GLN:HE22	1.84	0.42
1:B:318:ILE:HG23	1:B:735:PHE:CZ	2.54	0.42
1:B:379:HIS:CD2	1:B:380:LYS:N	2.84	0.42
1:B:439:LEU:HB3	1:B:440:TYR:H	1.71	0.42
1:B:454:ILE:O	1:B:457:ILE:HG12	2.20	0.42
1:B:530:GLY:O	1:B:531:GLN:C	2.57	0.42
1:B:531:GLN:O	1:B:535:ILE:HG12	2.20	0.42
1:B:585:LEU:HD22	1:B:585:LEU:N	2.33	0.42
1:B:754:LEU:O	1:B:754:LEU:HD23	2.19	0.42
1:B:792:MET:O	1:B:793:LEU:C	2.58	0.42
1:B:875:LEU:HD23	1:B:875:LEU:C	2.40	0.42
1:B:1153:PHE:O	1:B:1157:LEU:HD23	2.20	0.42
1:A:270:LEU:CB	1:A:789:PHE:CE1	3.02	0.42
1:A:394:HIS:O	1:A:443:LEU:HB3	2.19	0.42
1:A:464:GLU:C	1:A:466:ILE:N	2.72	0.42
1:A:483:ASN:O	1:A:486:TYR:HB2	2.20	0.42
1:A:509:ILE:HD11	1:A:510:MET:HG2	2.01	0.42
1:A:535:ILE:HG12	1:A:535:ILE:H	1.46	0.42
1:A:711:ILE:CG1	1:A:715:ILE:HD11	2.49	0.42
1:A:730:LYS:O	1:A:731:VAL:C	2.58	0.42
1:A:934:PHE:HD1	1:A:934:PHE:H	1.66	0.42
1:A:968:GLU:O	1:A:971:LEU:HD23	2.20	0.42
1:A:1064:LEU:HB3	1:A:1226:ILE:HA	2.00	0.42
1:A:1143:ARG:O	1:A:1146:LYS:HB2	2.20	0.42
1:A:1218:ARG:C	1:A:1220:GLY:H	2.23	0.42
1:A:1241:VAL:HB	1:A:1249:GLU:HB2	2.00	0.42
1:B:114:TYR:O	1:B:115:THR:C	2.58	0.42
1:B:349:GLU:O	1:B:352:ALA:HB3	2.20	0.42
1:B:376:LYS:HD2	1:B:376:LYS:N	2.35	0.42
1:B:727:ILE:HD12	1:B:754:LEU:CB	2.50	0.42
1:B:796:ASP:O	1:B:797:VAL:CB	2.67	0.42
1:B:810:LEU:O	1:B:811:THR:C	2.58	0.42
1:B:1057:LYS:H	1:B:1057:LYS:CD	2.33	0.42
1:A:163:ASP:O	1:A:165:GLY:N	2.50	0.42
1:A:333:SER:O	1:A:336:ILE:HB	2.19	0.42
1:A:566:GLN:CD	1:A:569:LEU:HD12	2.40	0.42
1:A:817:ASP:OD1	1:A:1000:SER:CB	2.68	0.42
1:A:827:SER:O	1:A:830:ALA:N	2.52	0.42
1:A:1022:LEU:HG	1:A:1104:TRP:HE1	1.74	0.42
1:A:1062:LEU:C	1:A:1062:LEU:HD13	2.40	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:49:TYR:OH	1:B:130:SER:CB	2.60	0.42
1:B:509:ILE:HD11	1:B:510:MET:HG2	2.01	0.42
1:B:765:THR:CG2	1:B:766:PHE:N	2.83	0.42
1:B:812:THR:O	1:B:813:ARG:C	2.58	0.42
1:A:74:MET:SD	1:A:953:PHE:HE1	2.38	0.42
1:A:173:ASP:O	1:A:177:LYS:HG3	2.19	0.42
1:A:263:PHE:CE1	1:A:1129:TYR:HB3	2.54	0.42
1:A:307:ALA:HB1	1:A:754:LEU:HD22	1.98	0.42
1:A:373:SER:O	1:A:374:PHE:CB	2.44	0.42
1:A:388:LEU:HD12	1:A:388:LEU:H	1.84	0.42
1:A:421:LEU:O	1:A:581:ILE:HD12	2.20	0.42
1:A:827:SER:O	1:A:829:LEU:N	2.52	0.42
1:A:1001:ALA:O	1:A:1005:ILE:CG1	2.63	0.42
1:A:1023:LYS:C	1:A:1025:ASN:H	2.23	0.42
1:A:1026:MET:C	1:A:1028:GLU:H	2.23	0.42
1:A:1052:LEU:HG	1:A:1054:LEU:CD2	2.50	0.42
1:A:1063:ALA:HA	1:A:1225:VAL:CG1	2.49	0.42
1:A:1131:ASP:OD2	1:A:1188:ARG:NE	2.53	0.42
1:B:91:MET:H	1:B:91:MET:HG3	1.49	0.42
1:B:324:ILE:O	1:B:325:GLY:C	2.58	0.42
1:B:388:LEU:HD12	1:B:388:LEU:H	1.85	0.42
1:B:490:ASP:O	1:B:491:VAL:CB	2.68	0.42
1:B:552:GLU:HB3	1:B:555:SER:OG	2.19	0.42
1:B:609:ASP:O	1:B:613:ARG:HB2	2.20	0.42
1:B:749:ASN:O	1:B:752:SER:N	2.53	0.42
1:B:788:VAL:O	1:B:789:PHE:C	2.58	0.42
1:B:921:GLN:CG	1:B:922:ILE:N	2.81	0.42
1:B:1042:THR:O	1:B:1042:THR:HG23	2.20	0.42
1:B:1058:LYS:HB2	1:B:1058:LYS:HE3	1.86	0.42
1:B:1239:ILE:HD12	1:B:1239:ILE:H	1.84	0.42
1:A:75:THR:HB	1:A:326:GLN:HE22	1.84	0.41
1:A:243:TYR:C	1:A:243:TYR:CD2	2.92	0.41
1:A:282:ARG:O	1:A:283:LEU:C	2.58	0.41
1:A:303:TYR:CD1	1:A:303:TYR:C	2.93	0.41
1:A:318:ILE:CG1	1:A:735:PHE:CZ	3.03	0.41
1:A:324:ILE:C	1:A:326:GLN:H	2.22	0.41
1:A:534:ARG:HH21	1:A:564:VAL:CG1	2.29	0.41
1:A:789:PHE:O	1:A:789:PHE:HD2	2.03	0.41
1:A:1011:THR:O	1:A:1011:THR:HG23	2.20	0.41
1:A:1127:ILE:C	1:A:1129:TYR:H	2.17	0.41
1:B:844:ILE:O	1:B:847:LEU:HB2	2.20	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:867:ALA:O	1:B:870:VAL:HG12	2.20	0.41
1:B:1076:VAL:HG13	1:B:1194:LEU:CD1	2.45	0.41
1:B:1128:ALA:HB2	1:B:1141:ILE:CG2	2.38	0.41
1:B:1147:GLU:CB	1:B:1186:LEU:HD22	2.46	0.41
1:B:1241:VAL:HB	1:B:1249:GLU:HB2	2.01	0.41
1:B:1248:LYS:HG2	1:B:1262:ILE:CD1	2.48	0.41
1:B:1250:HIS:N	1:B:1256:LEU:HD21	2.35	0.41
1:A:492:THR:C	1:A:494:ASP:H	2.24	0.41
1:A:814:LEU:HD22	1:A:814:LEU:N	2.34	0.41
1:A:890:GLY:O	1:A:893:ALA:HB3	2.20	0.41
1:A:1052:LEU:HD11	1:A:1054:LEU:HD21	2.02	0.41
1:B:95:ASP:O	1:B:99:MET:HB2	2.20	0.41
1:B:116:GLY:O	1:B:117:ILE:C	2.58	0.41
1:B:229:ALA:HB1	1:B:299:PHE:CE2	2.54	0.41
1:B:239:GLU:HG3	1:B:288:ALA:HB2	1.98	0.41
1:B:295:MET:C	1:B:297:ALA:N	2.73	0.41
1:B:464:GLU:C	1:B:466:ILE:N	2.74	0.41
1:B:489:GLU:O	1:B:491:VAL:HG12	2.19	0.41
1:B:611:LEU:HA	1:B:614:GLU:HB3	2.02	0.41
1:B:790:LYS:CB	1:B:794:ARG:NH2	2.82	0.41
1:B:843:ILE:O	1:B:846:SER:HB2	2.20	0.41
1:B:1113:SER:OG	1:B:1114:GLN:N	2.53	0.41
1:B:1114:GLN:O	1:B:1116:PRO:HD3	2.19	0.41
1:A:128:GLN:CG	1:A:129:VAL:N	2.82	0.41
1:A:155:GLU:HB3	1:A:156:ILE:CD1	2.45	0.41
1:A:239:GLU:HB3	1:A:285:ILE:HG13	1.99	0.41
1:A:266:GLN:HB2	1:A:270:LEU:HD21	2.01	0.41
1:A:318:ILE:CD1	1:A:324:ILE:H	2.32	0.41
1:A:466:ILE:HG22	1:A:468:VAL:HG23	2.02	0.41
1:A:490:ASP:O	1:A:491:VAL:CB	2.67	0.41
1:A:604:GLU:H	1:A:604:GLU:HG3	1.52	0.41
1:A:902:THR:C	1:A:904:VAL:HG12	2.41	0.41
1:A:905:SER:O	1:A:907:THR:HG23	2.20	0.41
1:A:938:PHE:O	1:A:941:THR:N	2.53	0.41
1:A:1081:ARG:O	1:A:1081:ARG:HG2	2.20	0.41
1:A:1113:SER:OG	1:A:1114:GLN:N	2.52	0.41
1:A:1179:ARG:O	1:A:1182:ILE:HB	2.20	0.41
1:B:100:PHE:O	1:B:103:LEU:HB3	2.21	0.41
1:B:147:PHE:CG	1:B:365:ILE:HG12	2.56	0.41
1:B:150:ALA:O	1:B:151:ILE:C	2.58	0.41
1:B:354:ALA:O	1:B:358:ALA:HB2	2.20	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:480:ILE:C	1:B:482:GLU:N	2.70	0.41
1:B:543:ARG:NH1	1:B:543:ARG:HG2	2.35	0.41
1:B:715:ILE:O	1:B:718:GLY:N	2.53	0.41
1:B:775:LYS:O	1:B:776:ALA:C	2.58	0.41
1:B:1028:GLU:O	1:B:1093:ASP:OD1	2.39	0.41
1:B:1076:VAL:HG13	1:B:1194:LEU:CD2	2.46	0.41
1:B:1151:HIS:HA	1:B:1154:ILE:HB	2.02	0.41
1:A:74:MET:SD	1:A:953:PHE:CD1	3.13	0.41
1:A:362:PHE:CA	1:A:365:ILE:HD12	2.47	0.41
1:A:467:GLY:H	1:A:545:PRO:HG3	1.82	0.41
1:A:478:THR:HG22	1:A:482:GLU:HG3	1.99	0.41
1:A:722:PRO:HG2	1:A:841:THR:HG1	1.82	0.41
1:A:762:SER:C	1:A:765:THR:HG22	2.41	0.41
1:A:1000:SER:O	1:A:1004:ILE:HG22	2.20	0.41
1:A:1031:VAL:HB	1:A:1056:VAL:CG1	2.49	0.41
1:A:1050:GLN:HG2	1:A:1245:GLY:CA	2.49	0.41
1:A:1052:LEU:HG	1:A:1053:SER:H	1.84	0.41
1:A:1058:LYS:HB2	1:A:1058:LYS:HE3	1.87	0.41
1:A:1144:ALA:CA	1:A:1186:LEU:HD11	2.30	0.41
1:B:155:GLU:HB3	1:B:156:ILE:CD1	2.46	0.41
1:B:290:THR:CG2	1:B:771:PHE:HA	2.51	0.41
1:B:415:SER:HA	1:B:577:THR:HB	2.01	0.41
1:B:420:ALA:O	1:B:421:LEU:HD12	2.19	0.41
1:B:421:LEU:HD12	1:B:421:LEU:N	2.35	0.41
1:B:722:PRO:HB2	1:B:841:THR:HG21	2.03	0.41
1:B:787:MET:O	1:B:790:LYS:HB2	2.21	0.41
1:B:892:ILE:CG1	1:B:916:TYR:HE1	2.33	0.41
1:B:897:ILE:O	1:B:898:GLU:C	2.58	0.41
1:B:987:VAL:O	1:B:987:VAL:HG22	2.21	0.41
1:B:1131:ASP:OD2	1:B:1188:ARG:NE	2.53	0.41
1:B:1261:GLY:N	1:B:1264:PHE:HB3	2.20	0.41
1:A:346:PRO:O	1:A:347:ASN:C	2.54	0.41
1:A:383:ASN:O	1:A:384:ILE:HB	2.20	0.41
1:A:592:ASP:O	1:A:593:VAL:HB	2.20	0.41
1:A:756:LEU:O	1:A:760:ILE:HB	2.20	0.41
1:A:961:THR:O	1:A:962:GLN:CB	2.69	0.41
1:A:967:PHE:CD1	1:A:968:GLU:N	2.88	0.41
1:A:1076:VAL:HG13	1:A:1194:LEU:CD1	2.45	0.41
1:A:1138:TYR:HA	1:A:1141:ILE:HG12	2.03	0.41
1:A:1147:GLU:CB	1:A:1186:LEU:HD22	2.48	0.41
1:A:1177:LYS:O	1:A:1180:ILE:N	2.53	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1202:LEU:CG	1:A:1203:ASP:N	2.81	0.41
1:B:133:CYS:HB3	1:B:931:ALA:CB	2.50	0.41
1:B:170:ARG:HB2	1:B:174:ASP:CG	2.40	0.41
1:B:303:TYR:CD1	1:B:303:TYR:C	2.94	0.41
1:B:309:ALA:O	1:B:310:PHE:O	2.39	0.41
1:B:817:ASP:OD1	1:B:1000:SER:CB	2.68	0.41
1:B:928:MET:O	1:B:931:ALA:HB3	2.20	0.41
1:B:1102:VAL:CG1	1:B:1103:GLN:N	2.83	0.41
1:A:92:SER:O	1:A:96:LYS:HG3	2.20	0.41
1:A:103:LEU:HB2	1:A:960:VAL:HG23	2.02	0.41
1:A:255:ALA:C	1:A:257:ILE:N	2.73	0.41
1:A:327:VAL:O	1:A:328:LEU:C	2.59	0.41
1:A:354:ALA:O	1:A:355:ARG:C	2.57	0.41
1:A:913:GLU:OE2	1:A:913:GLU:CA	2.63	0.41
1:A:1109:LEU:HD23	1:A:1109:LEU:N	2.35	0.41
1:A:1166:GLY:O	1:A:1167:ASP:CB	2.64	0.41
1:A:1203:ASP:C	1:A:1204:THR:HG22	2.40	0.41
1:B:173:ASP:O	1:B:177:LYS:HG3	2.21	0.41
1:B:197:PHE:O	1:B:201:ILE:N	2.54	0.41
1:B:215:LEU:HA	1:B:219:PRO:CD	2.49	0.41
1:B:314:THR:O	1:B:316:LEU:N	2.54	0.41
1:B:327:VAL:O	1:B:328:LEU:C	2.59	0.41
1:B:727:ILE:HD11	1:B:753:LEU:HB3	2.01	0.41
1:B:896:ALA:O	1:B:897:ILE:C	2.59	0.41
1:B:1078:LEU:O	1:B:1081:ARG:N	2.53	0.41
1:B:1150:ILE:O	1:B:1154:ILE:CG1	2.68	0.41
1:A:875:LEU:C	1:A:875:LEU:HD23	2.41	0.41
1:A:921:GLN:CG	1:A:922:ILE:N	2.84	0.41
1:A:954:ARG:HE	1:A:955:PHE:HA	1.85	0.41
1:A:973:VAL:O	1:A:974:PHE:C	2.59	0.41
1:A:978:VAL:HG22	2:A:6001:2J8:H29	2.01	0.41
1:A:1192:ILE:HA	1:A:1222:THR:O	2.21	0.41
1:A:1260:LYS:HA	1:A:1264:PHE:HB2	2.01	0.41
1:B:133:CYS:CB	1:B:931:ALA:HB1	2.50	0.41
1:B:295:MET:O	1:B:298:ALA:N	2.53	0.41
1:B:358:ALA:O	1:B:362:PHE:N	2.52	0.41
1:B:387:ASN:O	1:B:450:ASP:O	2.39	0.41
1:B:449:ILE:HD13	1:B:450:ASP:HB2	2.03	0.41
1:B:717:ASN:HB3	1:B:833:PHE:CE1	2.56	0.41
1:B:718:GLY:CA	1:B:837:ALA:HB2	2.51	0.41
1:B:776:ALA:O	1:B:780:LEU:HG	2.21	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:833:PHE:CG	1:B:834:GLN:N	2.88	0.41
1:B:968:GLU:O	1:B:971:LEU:HD23	2.21	0.41
1:B:1000:SER:O	1:B:1004:ILE:HG22	2.21	0.41
1:B:1052:LEU:HD11	1:B:1054:LEU:HD21	2.02	0.41
1:B:1109:LEU:HD23	1:B:1109:LEU:N	2.36	0.41
1:A:148:PHE:HB3	1:A:913:GLU:OE1	2.21	0.41
1:A:229:ALA:HB1	1:A:299:PHE:CE2	2.55	0.41
1:A:354:ALA:O	1:A:358:ALA:HB2	2.19	0.41
1:A:480:ILE:O	1:A:482:GLU:N	2.54	0.41
1:A:712:PHE:O	1:A:713:CYS:C	2.58	0.41
1:A:727:ILE:HD11	1:A:753:LEU:HB3	2.02	0.41
1:A:730:LYS:NZ	1:A:750:LEU:HD21	2.36	0.41
1:A:788:VAL:O	1:A:791:SER:HB2	2.21	0.41
1:A:797:VAL:CG1	1:A:798:SER:H	2.20	0.41
1:A:814:LEU:H	1:A:814:LEU:CD2	2.34	0.41
1:A:1017:TYR:HB3	1:A:1018:SER:H	1.42	0.41
1:A:1056:VAL:HG21	1:A:1062:LEU:HB2	2.01	0.41
1:A:1065:VAL:HG13	1:A:1241:VAL:HG22	2.02	0.41
1:B:402:GLU:CA	1:B:402:GLU:OE2	2.68	0.41
1:B:491:VAL:HG23	1:B:495:GLU:OE1	2.21	0.41
1:B:507:ASP:OD1	1:B:508:PHE:N	2.37	0.41
1:B:604:GLU:H	1:B:604:GLU:HG3	1.51	0.41
1:B:762:SER:O	1:B:764:ILE:N	2.54	0.41
1:B:843:ILE:HA	1:B:846:SER:CB	2.50	0.41
1:B:946:TYR:CG	1:B:947:PHE:N	2.89	0.41
1:B:1059:GLY:HA2	1:B:1222:THR:N	2.35	0.41
1:A:39:PHE:CE2	1:A:358:ALA:HB3	2.52	0.41
1:A:214:ILE:HG21	1:A:334:VAL:HG11	2.01	0.41
1:A:251:GLU:O	1:A:252:GLU:HB2	2.21	0.41
1:A:267:LYS:O	1:A:790:LYS:NZ	2.52	0.41
1:A:282:ARG:HD3	1:A:286:LYS:NZ	2.36	0.41
1:A:311:TRP:CE3	1:A:311:TRP:CA	3.04	0.41
1:A:358:ALA:O	1:A:362:PHE:N	2.54	0.41
1:A:415:SER:HA	1:A:577:THR:HB	2.03	0.41
1:A:438:ARG:O	1:A:439:LEU:O	2.39	0.41
1:A:531:GLN:O	1:A:532:LYS:C	2.57	0.41
1:A:614:GLU:O	1:A:615:LYS:C	2.58	0.41
1:A:711:ILE:HD11	1:A:832:ILE:CG2	2.29	0.41
1:A:713:CYS:SG	1:A:769:GLN:HB3	2.61	0.41
1:A:722:PRO:O	1:A:725:SER:OG	2.32	0.41
1:A:728:PHE:CD1	1:A:728:PHE:C	2.95	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:782:LYS:O	1:A:783:ARG:C	2.58	0.41
1:A:886:LEU:HD12	1:A:886:LEU:C	2.41	0.41
1:A:986:GLN:C	1:A:988:SER:H	2.24	0.41
1:A:1020:GLN:OE1	1:A:1020:GLN:C	2.59	0.41
1:A:1109:LEU:HD23	1:A:1109:LEU:H	1.86	0.41
1:A:1153:PHE:HA	1:A:1157:LEU:HD23	2.02	0.41
1:B:58:ILE:H	1:B:58:ILE:CD1	2.33	0.41
1:B:178:ILE:HG13	1:B:178:ILE:H	1.73	0.41
1:B:185:LYS:HB3	1:B:185:LYS:HE3	1.90	0.41
1:B:268:LYS:NZ	1:B:272:ARG:HD3	2.36	0.41
1:B:276:ASN:HD22	1:B:276:ASN:HA	1.70	0.41
1:B:308:LEU:HD13	1:B:755:PHE:CD1	2.55	0.41
1:B:356:GLY:O	1:B:358:ALA:N	2.54	0.41
1:B:432:THR:OG1	1:B:433:VAL:N	2.53	0.41
1:B:457:ILE:CD1	1:B:462:LEU:HD13	2.49	0.41
1:B:713:CYS:SG	1:B:769:GLN:HB3	2.61	0.41
1:B:730:LYS:NZ	1:B:750:LEU:HD21	2.36	0.41
1:B:757:ILE:HG22	1:B:758:LEU:N	2.35	0.41
1:B:778:GLU:O	1:B:779:ILE:C	2.58	0.41
1:B:789:PHE:O	1:B:792:MET:HB2	2.20	0.41
1:B:1037:VAL:HG22	1:B:1087:ALA:HB3	1.99	0.41
1:B:1052:LEU:HG	1:B:1054:LEU:CD2	2.50	0.41
1:B:1054:LEU:HD22	1:B:1054:LEU:N	2.35	0.41
1:B:1108:GLN:HE21	1:B:1108:GLN:H	1.68	0.41
1:B:1233:ILE:O	1:B:1233:ILE:HG13	2.21	0.41
1:A:103:LEU:HD13	1:A:960:VAL:HG22	2.02	0.41
1:A:318:ILE:HD12	1:A:322:TYR:O	2.21	0.41
1:A:349:GLU:O	1:A:352:ALA:HB3	2.21	0.41
1:A:364:ILE:HG22	1:A:364:ILE:O	2.20	0.41
1:A:401:LYS:O	1:A:402:GLU:C	2.59	0.41
1:A:509:ILE:HD12	1:A:509:ILE:C	2.40	0.41
1:A:541:LEU:HD13	1:A:541:LEU:C	2.41	0.41
1:A:573:ARG:C	1:A:575:GLY:H	2.22	0.41
1:A:611:LEU:HA	1:A:614:GLU:HB3	2.03	0.41
1:A:1108:GLN:HE21	1:A:1108:GLN:H	1.68	0.41
1:A:1126:ASN:O	1:A:1129:TYR:CG	2.74	0.41
1:A:1233:ILE:O	1:A:1233:ILE:HG13	2.20	0.41
1:B:167:LEU:O	1:B:170:ARG:HG2	2.20	0.41
1:B:430:SER:O	1:B:433:VAL:HB	2.21	0.41
1:B:433:VAL:O	1:B:436:MET:HB2	2.21	0.41
1:B:466:ILE:HG22	1:B:468:VAL:HG23	2.03	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:566:GLN:CD	1:B:569:LEU:HD12	2.40	0.41
1:B:722:PRO:HA	1:B:979:PHE:CE1	2.55	0.41
1:B:804:LYS:HE3	1:B:804:LYS:N	2.35	0.41
1:B:821:VAL:C	1:B:823:GLY:N	2.71	0.41
1:B:1027:LEU:HD23	1:B:1028:GLU:N	2.34	0.41
1:A:52:VAL:O	1:A:55:LEU:HB3	2.22	0.40
1:A:54:THR:O	1:A:57:ALA:HB3	2.22	0.40
1:A:167:LEU:O	1:A:170:ARG:HG2	2.21	0.40
1:A:214:ILE:HG12	1:A:331:PHE:CD2	2.56	0.40
1:A:279:GLU:CG	1:A:782:LYS:CD	2.99	0.40
1:A:484:ILE:O	1:A:487:GLY:N	2.55	0.40
1:A:706:TYR:O	1:A:707:PHE:CD2	2.74	0.40
1:A:729:SER:HA	1:A:971:LEU:CB	2.50	0.40
1:A:1138:TYR:O	1:A:1141:ILE:HG12	2.21	0.40
1:A:1234:GLN:O	1:A:1236:ALA:N	2.51	0.40
1:A:1267:VAL:O	1:A:1270:GLN:HB3	2.21	0.40
1:B:298:ALA:O	1:B:302:ILE:CG1	2.68	0.40
1:B:310:PHE:HB3	1:B:311:TRP:H	1.61	0.40
1:B:433:VAL:CG1	1:B:549:LEU:HD23	2.48	0.40
1:B:484:ILE:O	1:B:485:ARG:C	2.60	0.40
1:B:1033:PHE:O	1:B:1053:SER:HA	2.21	0.40
1:B:1065:VAL:HG13	1:B:1241:VAL:HG22	2.03	0.40
1:A:132:TRP:CD2	1:A:183:GLY:CA	3.04	0.40
1:A:212:LEU:O	1:A:214:ILE:N	2.55	0.40
1:A:318:ILE:HD11	1:A:324:ILE:HG12	2.02	0.40
1:A:491:VAL:HG23	1:A:495:GLU:OE1	2.21	0.40
1:A:611:LEU:HB2	1:A:618:TYR:HD2	1.86	0.40
1:A:765:THR:CG2	1:A:766:PHE:N	2.83	0.40
1:A:861:VAL:CB	1:A:862:PRO:CD	2.99	0.40
1:A:990:PHE:HB3	1:A:991:ALA:H	1.72	0.40
1:A:1109:LEU:HD21	1:A:1188:ARG:NH1	2.33	0.40
1:A:1218:ARG:O	1:A:1219:GLU:HB3	2.21	0.40
1:B:128:GLN:CG	1:B:129:VAL:N	2.83	0.40
1:B:258:ARG:O	1:B:261:ILE:N	2.54	0.40
1:B:324:ILE:C	1:B:326:GLN:H	2.23	0.40
1:B:404:GLN:HE21	1:B:404:GLN:HB3	1.64	0.40
1:B:473:PRO:O	1:B:532:LYS:HE2	2.22	0.40
1:B:601:VAL:O	1:B:601:VAL:HG13	2.20	0.40
1:B:954:ARG:C	1:B:954:ARG:CD	2.90	0.40
1:B:967:PHE:CD1	1:B:968:GLU:N	2.87	0.40
1:B:993:ASP:N	1:B:996:LYS:HZ1	2.18	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1071:GLY:O	1:B:1075:VAL:HG23	2.21	0.40
1:B:1173:SER:HB3	1:B:1176:GLN:HE22	1.85	0.40
1:B:1263:TYR:O	1:B:1266:MET:HB2	2.20	0.40
1:A:158:TRP:O	1:A:158:TRP:HD1	2.03	0.40
1:A:827:SER:C	1:A:829:LEU:N	2.72	0.40
1:A:930:LYS:O	1:A:931:ALA:C	2.58	0.40
1:A:977:ILE:O	1:A:980:GLY:N	2.53	0.40
1:A:1026:MET:CE	1:A:1095:LYS:HD3	2.52	0.40
1:A:1057:LYS:H	1:A:1057:LYS:CD	2.34	0.40
1:A:1261:GLY:N	1:A:1264:PHE:HB3	2.20	0.40
1:B:39:PHE:CE2	1:B:358:ALA:HB3	2.52	0.40
1:B:188:MET:O	1:B:189:PHE:C	2.58	0.40
1:B:191:GLN:O	1:B:194:ALA:N	2.54	0.40
1:B:202:ILE:C	1:B:204:PHE:H	2.24	0.40
1:B:437:GLN:HE21	1:B:468:VAL:HG21	1.86	0.40
1:B:548:LEU:HD23	1:B:549:LEU:H	1.86	0.40
1:B:689:PRO:HG2	1:B:690:PRO:HD3	2.02	0.40
1:B:712:PHE:O	1:B:713:CYS:C	2.59	0.40
1:B:732:VAL:CG2	1:B:971:LEU:HG	2.51	0.40
1:B:765:THR:HG23	1:B:766:PHE:H	1.84	0.40
1:B:913:GLU:CA	1:B:916:TYR:HD2	2.31	0.40
1:B:1062:LEU:C	1:B:1062:LEU:HD13	2.41	0.40
1:B:1165:VAL:O	1:B:1171:GLN:HG2	2.21	0.40
1:A:47:ARG:O	1:A:48:LEU:C	2.58	0.40
1:A:195:THR:HB	1:A:337:GLY:O	2.22	0.40
1:A:268:LYS:NZ	1:A:272:ARG:HD3	2.36	0.40
1:A:721:GLN:HB3	1:A:722:PRO:HD3	2.04	0.40
1:A:791:SER:CB	1:A:1010:LYS:HE2	2.52	0.40
1:A:799:TRP:O	1:A:803:PRO:CA	2.70	0.40
1:A:947:PHE:HD2	1:A:947:PHE:HA	1.77	0.40
1:A:969:ASN:CA	1:A:972:LEU:HD13	2.43	0.40
1:A:1083:TYR:CD1	1:A:1083:TYR:N	2.89	0.40
1:A:1157:LEU:O	1:A:1158:PRO:C	2.60	0.40
1:B:146:LYS:O	1:B:150:ALA:HB2	2.21	0.40
1:B:268:LYS:HD3	1:B:268:LYS:C	2.41	0.40
1:B:282:ARG:HD3	1:B:286:LYS:NZ	2.37	0.40
1:B:534:ARG:HH21	1:B:564:VAL:CG1	2.29	0.40
1:B:778:GLU:HB3	1:B:782:LYS:HE2	2.03	0.40
1:B:990:PHE:HB3	1:B:991:ALA:H	1.72	0.40
1:A:395:PHE:HA	1:A:443:LEU:CB	2.52	0.40
1:A:404:GLN:HE21	1:A:404:GLN:HB3	1.63	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:472:GLU:OE1	1:A:473:PRO:HD2	2.22	0.40
1:A:476:PHE:CD2	1:A:486:TYR:HE1	2.39	0.40
1:A:727:ILE:HD12	1:A:754:LEU:CB	2.52	0.40
1:A:784:LEU:O	1:A:788:VAL:HG23	2.21	0.40
1:A:834:GLN:O	1:A:835:ASN:O	2.39	0.40
1:A:860:ILE:HG21	1:A:948:SER:HB3	2.02	0.40
1:A:946:TYR:CG	1:A:947:PHE:N	2.90	0.40
1:A:1056:VAL:HG23	1:A:1062:LEU:HB2	2.04	0.40
1:B:311:TRP:CE3	1:B:311:TRP:CA	3.04	0.40
1:B:429:LYS:NZ	1:B:581:ILE:HD11	2.37	0.40
1:B:480:ILE:O	1:B:482:GLU:N	2.54	0.40
1:B:607:ASN:O	1:B:608:HIS:C	2.59	0.40
1:B:708:VAL:CG1	1:B:709:VAL:N	2.83	0.40
1:B:721:GLN:HG2	1:B:982:MET:SD	2.62	0.40
1:B:795:GLN:CD	1:B:1012:PRO:HD3	2.42	0.40
1:B:814:LEU:CD2	1:B:814:LEU:H	2.35	0.40
1:B:852:GLN:OE1	1:B:955:PHE:O	2.39	0.40
1:B:1075:VAL:O	1:B:1076:VAL:C	2.58	0.40
1:B:1083:TYR:CD1	1:B:1083:TYR:N	2.89	0.40
1:B:1234:GLN:O	1:B:1236:ALA:N	2.52	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	1178/1284 (92%)	685 (58%)	305 (26%)	188 (16%)	0	3
1	B	1178/1284 (92%)	678 (58%)	318 (27%)	182 (15%)	0	3
All	All	2356/2568 (92%)	1363 (58%)	623 (26%)	370 (16%)	0	3

All (370) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	35	VAL
1	A	52	VAL
1	A	88	SER
1	A	131	PHE
1	A	133	CYS
1	A	134	LEU
1	A	135	ALA
1	A	155	GLU
1	A	156	ILE
1	A	164	VAL
1	A	201	ILE
1	A	208	TRP
1	A	209	LYS
1	A	267	LYS
1	A	276	ASN
1	A	310	PHE
1	A	371	ILE
1	A	374	PHE
1	A	384	ILE
1	A	385	GLN
1	A	400	ARG
1	A	439	LEU
1	A	489	GLU
1	A	491	VAL
1	A	537	ILE
1	A	553	ALA
1	A	574	GLU
1	A	590	ASN
1	A	593	VAL
1	A	731	VAL
1	A	755	PHE
1	A	757	ILE
1	A	788	VAL
1	A	797	VAL
1	A	799	TRP
1	A	835	ASN
1	A	849	TYR
1	A	901	ARG
1	A	906	LEU
1	A	909	GLU
1	A	933	VAL
1	A	963	GLN
1	A	990	PHE

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	A	993	ASP
1	A	1012	PRO
1	A	1014	ILE
1	A	1020	GLN
1	A	1042	THR
1	A	1057	LYS
1	A	1093	ASP
1	A	1098	LYS
1	A	1134	ARG
1	A	1158	PRO
1	A	1244	ASN
1	B	35	VAL
1	B	52	VAL
1	B	88	SER
1	B	131	PHE
1	B	133	CYS
1	B	134	LEU
1	B	135	ALA
1	B	155	GLU
1	B	156	ILE
1	B	164	VAL
1	B	201	ILE
1	B	274	ASN
1	B	276	ASN
1	B	310	PHE
1	B	321	GLU
1	B	322	TYR
1	B	370	SER
1	B	372	ASP
1	B	400	ARG
1	B	439	LEU
1	B	489	GLU
1	B	491	VAL
1	B	537	ILE
1	B	553	ALA
1	B	574	GLU
1	B	590	ASN
1	B	593	VAL
1	B	731	VAL
1	B	755	PHE
1	B	757	ILE
1	B	797	VAL

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	B	798	SER
1	B	835	ASN
1	B	849	TYR
1	B	901	ARG
1	B	906	LEU
1	B	909	GLU
1	B	933	VAL
1	B	963	GLN
1	B	990	PHE
1	B	993	ASP
1	B	1011	THR
1	B	1012	PRO
1	B	1014	ILE
1	B	1023	LYS
1	B	1042	THR
1	B	1057	LYS
1	B	1093	ASP
1	B	1134	ARG
1	B	1158	PRO
1	B	1244	ASN
1	A	34	SER
1	A	44	TRP
1	A	72	GLY
1	A	90	ASN
1	A	132	TRP
1	A	137	GLY
1	A	140	ILE
1	A	144	ARG
1	A	160	ASP
1	A	203	GLY
1	A	216	ALA
1	A	274	ASN
1	A	308	LEU
1	A	356	GLY
1	A	373	SER
1	A	404	GLN
1	A	407	LYS
1	A	408	GLY
1	A	424	ASN
1	A	521	GLY
1	A	539	ARG
1	A	620	LYS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	A	687	ASP
1	A	712	PHE
1	A	796	ASP
1	A	815	ALA
1	A	837	ALA
1	A	947	PHE
1	A	959	LEU
1	A	991	ALA
1	A	1028	GLU
1	A	1030	ASN
1	A	1095	LYS
1	A	1114	GLN
1	A	1128	ALA
1	A	1129	TYR
1	A	1130	GLY
1	A	1155	ASP
1	A	1157	LEU
1	A	1160	LYS
1	A	1198	ALA
1	A	1262	ILE
1	B	34	SER
1	B	44	TRP
1	B	72	GLY
1	B	132	TRP
1	B	140	ILE
1	B	160	ASP
1	B	190	PHE
1	B	203	GLY
1	B	216	ALA
1	B	267	LYS
1	B	308	LEU
1	B	320	LYS
1	B	356	GLY
1	B	404	GLN
1	B	408	GLY
1	B	424	ASN
1	B	521	GLY
1	B	522	GLU
1	B	539	ARG
1	B	620	LYS
1	B	712	PHE
1	B	788	VAL

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	B	796	ASP
1	B	799	TRP
1	B	814	LEU
1	B	815	ALA
1	B	837	ALA
1	B	851	TRP
1	B	947	PHE
1	B	959	LEU
1	B	991	ALA
1	B	1016	SER
1	B	1024	PRO
1	B	1095	LYS
1	B	1098	LYS
1	B	1114	GLN
1	B	1128	ALA
1	B	1129	TYR
1	B	1130	GLY
1	B	1155	ASP
1	B	1198	ALA
1	B	1262	ILE
1	A	73	ASP
1	A	118	GLY
1	A	190	PHE
1	A	317	VAL
1	A	320	LYS
1	A	355	ARG
1	A	369	PRO
1	A	370	SER
1	A	434	GLN
1	A	435	LEU
1	A	522	GLU
1	A	552	GLU
1	A	703	GLU
1	A	707	PHE
1	A	758	LEU
1	A	778	GLU
1	A	794	ARG
1	A	814	LEU
1	A	833	PHE
1	A	839	LEU
1	A	908	ARG
1	A	935	GLY

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	A	945	MET
1	A	965	MET
1	A	969	ASN
1	A	975	SER
1	A	995	ALA
1	A	1013	GLU
1	A	1017	TYR
1	A	1018	SER
1	A	1027	LEU
1	A	1041	PRO
1	A	1230	LEU
1	A	1235	ASN
1	B	73	ASP
1	B	90	ASN
1	B	118	GLY
1	B	137	GLY
1	B	144	ARG
1	B	208	TRP
1	B	355	ARG
1	B	373	SER
1	B	385	GLN
1	B	407	LYS
1	B	703	GLU
1	B	707	PHE
1	B	758	LEU
1	B	772	THR
1	B	778	GLU
1	B	833	PHE
1	B	839	LEU
1	B	854	THR
1	B	908	ARG
1	B	935	GLY
1	B	945	MET
1	B	965	MET
1	B	969	ASN
1	B	975	SER
1	B	1010	LYS
1	B	1015	ASP
1	B	1041	PRO
1	B	1157	LEU
1	B	1159	ASP
1	B	1160	LYS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	B	1230	LEU
1	A	152	MET
1	A	402	GLU
1	A	523	ARG
1	A	538	ALA
1	A	558	ASP
1	A	608	HIS
1	A	766	PHE
1	A	772	THR
1	A	786	TYR
1	A	806	THR
1	A	854	THR
1	A	894	THR
1	A	895	GLU
1	A	912	PHE
1	A	958	TYR
1	A	1046	ILE
1	A	1102	VAL
1	A	1156	SER
1	A	1159	ASP
1	A	1204	THR
1	B	317	VAL
1	B	369	PRO
1	B	377	SER
1	B	384	ILE
1	B	433	VAL
1	B	538	ALA
1	B	608	HIS
1	B	691	ALA
1	B	766	PHE
1	B	786	TYR
1	B	794	ARG
1	B	912	PHE
1	B	958	TYR
1	B	1013	GLU
1	B	1020	GLN
1	B	1046	ILE
1	B	1102	VAL
1	B	1156	SER
1	B	1235	ASN
1	A	218	SER
1	A	258	ARG

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	A	269	GLU
1	A	352	ALA
1	A	429	LYS
1	A	559	THR
1	A	690	PRO
1	A	705	PRO
1	A	748	SER
1	A	753	LEU
1	A	793	LEU
1	A	1024	PRO
1	A	1036	VAL
1	A	1101	ASN
1	B	209	LYS
1	B	218	SER
1	B	258	ARG
1	B	352	ALA
1	B	381	PRO
1	B	402	GLU
1	B	507	ASP
1	B	558	ASP
1	B	559	THR
1	B	692	SER
1	B	705	PRO
1	B	753	LEU
1	B	894	THR
1	B	1036	VAL
1	B	1206	SER
1	A	161	VAL
1	A	280	ALA
1	A	322	TYR
1	A	507	ASP
1	A	759	GLY
1	A	897	ILE
1	A	1085	PRO
1	B	161	VAL
1	B	315	SER
1	B	523	ARG
1	B	598	ASP
1	B	759	GLY
1	B	806	THR
1	B	1019	THR
1	B	1136	VAL

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	B	1168	LYS
1	A	214	ILE
1	A	545	PRO
1	A	603	VAL
1	A	689	PRO
1	A	1069	GLY
1	A	1136	VAL
1	A	1166	GLY
1	B	603	VAL
1	B	1085	PRO
1	A	381	PRO
1	B	214	ILE
1	B	897	ILE
1	B	1166	GLY
1	A	227	ILE
1	A	1047	PRO
1	A	1094	GLY
1	B	545	PRO
1	B	999	VAL
1	B	1069	GLY
1	B	1094	GLY
1	A	121	VAL
1	A	601	VAL
1	A	999	VAL
1	A	1127	ILE
1	B	116	GLY
1	B	121	VAL
1	B	227	ILE
1	B	601	VAL
1	B	1047	PRO
1	B	1127	ILE
1	A	116	GLY
1	A	831	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	976/1065 (92%)	823 (84%)	153 (16%)	2 16
1	B	976/1065 (92%)	829 (85%)	147 (15%)	3 17
All	All	1952/2130 (92%)	1652 (85%)	300 (15%)	2 16

All (300) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	41	TYR
1	A	59	ILE
1	A	70	ILE
1	A	71	PHE
1	A	76	ASP
1	A	83	ASN
1	A	87	ASN
1	A	91	MET
1	A	93	GLU
1	A	99	MET
1	A	102	LYS
1	A	113	TYR
1	A	131	PHE
1	A	132	TRP
1	A	156	ILE
1	A	158	TRP
1	A	163	ASP
1	A	189	PHE
1	A	206	ARG
1	A	209	LYS
1	A	210	LEU
1	A	219	PRO
1	A	227	ILE
1	A	228	TRP
1	A	231	ILE
1	A	238	LYS
1	A	243	TYR
1	A	245	LYS
1	A	252	GLU
1	A	254	LEU
1	A	257	ILE
1	A	267	LYS
1	A	270	LEU
1	A	276	ASN
1	A	281	LYS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	A	282	ARG
1	A	285	ILE
1	A	295	MET
1	A	302	ILE
1	A	306	TYR
1	A	308	LEU
1	A	310	PHE
1	A	324	ILE
1	A	328	LEU
1	A	330	VAL
1	A	336	ILE
1	A	366	ASP
1	A	376	LYS
1	A	382	ASP
1	A	397	TYR
1	A	401	LYS
1	A	402	GLU
1	A	404	GLN
1	A	405	ILE
1	A	429	LYS
1	A	438	ARG
1	A	439	LEU
1	A	447	VAL
1	A	449	ILE
1	A	461	TYR
1	A	470	SER
1	A	471	GLN
1	A	493	MET
1	A	495	GLU
1	A	519	LEU
1	A	527	LEU
1	A	535	ILE
1	A	549	LEU
1	A	577	THR
1	A	578	THR
1	A	592	ASP
1	A	602	ILE
1	A	604	GLU
1	A	613	ARG
1	A	686	GLU
1	A	687	ASP
1	A	694	TRP

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	A	695	ARG
1	A	697	LEU
1	A	703	GLU
1	A	711	ILE
1	A	721	GLN
1	A	722	PRO
1	A	727	ILE
1	A	734	VAL
1	A	743	THR
1	A	749	ASN
1	A	751	PHE
1	A	786	TYR
1	A	789	PHE
1	A	795	GLN
1	A	799	TRP
1	A	804	LYS
1	A	816	ASN
1	A	834	GLN
1	A	841	THR
1	A	849	TYR
1	A	853	LEU
1	A	862	PRO
1	A	863	ILE
1	A	872	MET
1	A	881	LYS
1	A	892	ILE
1	A	900	PHE
1	A	902	THR
1	A	905	SER
1	A	908	ARG
1	A	909	GLU
1	A	911	LYS
1	A	912	PHE
1	A	922	ILE
1	A	936	ILE
1	A	945	MET
1	A	947	PHE
1	A	953	PHE
1	A	954	ARG
1	A	968	GLU
1	A	969	ASN
1	A	974	PHE

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	A	993	ASP
1	A	996	LYS
1	A	1005	ILE
1	A	1008	ILE
1	A	1010	LYS
1	A	1011	THR
1	A	1012	PRO
1	A	1013	GLU
1	A	1020	GLN
1	A	1023	LYS
1	A	1025	ASN
1	A	1039	ASN
1	A	1041	PRO
1	A	1060	GLN
1	A	1083	TYR
1	A	1108	GLN
1	A	1109	LEU
1	A	1118	LEU
1	A	1123	ILE
1	A	1131	ASP
1	A	1138	TYR
1	A	1140	GLU
1	A	1158	PRO
1	A	1161	TYR
1	A	1182	ILE
1	A	1187	VAL
1	A	1192	ILE
1	A	1221	ARG
1	A	1229	ARG
1	A	1233	ILE
1	A	1242	ILE
1	A	1246	LYS
1	A	1254	GLN
1	A	1262	ILE
1	B	41	TYR
1	B	59	ILE
1	B	70	ILE
1	B	71	PHE
1	B	76	ASP
1	B	83	ASN
1	B	87	ASN
1	B	91	MET

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	B	93	GLU
1	B	99	MET
1	B	102	LYS
1	B	113	TYR
1	B	123	ILE
1	B	131	PHE
1	B	132	TRP
1	B	147	PHE
1	B	156	ILE
1	B	158	TRP
1	B	163	ASP
1	B	189	PHE
1	B	206	ARG
1	B	210	LEU
1	B	219	PRO
1	B	227	ILE
1	B	228	TRP
1	B	231	ILE
1	B	238	LYS
1	B	243	TYR
1	B	245	LYS
1	B	252	GLU
1	B	254	LEU
1	B	257	ILE
1	B	267	LYS
1	B	270	LEU
1	B	276	ASN
1	B	281	LYS
1	B	282	ARG
1	B	285	ILE
1	B	295	MET
1	B	302	ILE
1	B	306	TYR
1	B	308	LEU
1	B	310	PHE
1	B	324	ILE
1	B	328	LEU
1	B	330	VAL
1	B	336	ILE
1	B	366	ASP
1	B	397	TYR
1	B	401	LYS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	B	402	GLU
1	B	404	GLN
1	B	405	ILE
1	B	429	LYS
1	B	436	MET
1	B	438	ARG
1	B	439	LEU
1	B	449	ILE
1	B	461	TYR
1	B	471	GLN
1	B	493	MET
1	B	495	GLU
1	B	519	LEU
1	B	527	LEU
1	B	535	ILE
1	B	549	LEU
1	B	577	THR
1	B	578	THR
1	B	592	ASP
1	B	602	ILE
1	B	604	GLU
1	B	613	ARG
1	B	684	LEU
1	B	693	PHE
1	B	694	TRP
1	B	695	ARG
1	B	697	LEU
1	B	703	GLU
1	B	711	ILE
1	B	721	GLN
1	B	722	PRO
1	B	727	ILE
1	B	734	VAL
1	B	743	THR
1	B	749	ASN
1	B	751	PHE
1	B	786	TYR
1	B	789	PHE
1	B	795	GLN
1	B	799	TRP
1	B	804	LYS
1	B	816	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	B	834	GLN
1	B	841	THR
1	B	849	TYR
1	B	853	LEU
1	B	862	PRO
1	B	863	ILE
1	B	872	MET
1	B	881	LYS
1	B	892	ILE
1	B	900	PHE
1	B	902	THR
1	B	905	SER
1	B	908	ARG
1	B	909	GLU
1	B	911	LYS
1	B	912	PHE
1	B	936	ILE
1	B	945	MET
1	B	947	PHE
1	B	953	PHE
1	B	968	GLU
1	B	969	ASN
1	B	974	PHE
1	B	993	ASP
1	B	996	LYS
1	B	1005	ILE
1	B	1007	ILE
1	B	1008	ILE
1	B	1011	THR
1	B	1013	GLU
1	B	1022	LEU
1	B	1039	ASN
1	B	1041	PRO
1	B	1060	GLN
1	B	1083	TYR
1	B	1108	GLN
1	B	1109	LEU
1	B	1118	LEU
1	B	1123	ILE
1	B	1131	ASP
1	B	1138	TYR
1	B	1140	GLU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	B	1154	ILE
1	B	1158	PRO
1	B	1161	TYR
1	B	1182	ILE
1	B	1187	VAL
1	B	1192	ILE
1	B	1221	ARG
1	B	1229	ARG
1	B	1233	ILE
1	B	1242	ILE
1	B	1246	LYS
1	B	1254	GLN
1	B	1262	ILE

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (78) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	60	HIS
1	A	83	ASN
1	A	87	ASN
1	A	153	ASN
1	A	154	GLN
1	A	179	ASN
1	A	274	ASN
1	A	275	ASN
1	A	276	ASN
1	A	385	GLN
1	A	387	ASN
1	A	394	HIS
1	A	404	GLN
1	A	434	GLN
1	A	437	GLN
1	A	458	ASN
1	A	515	GLN
1	A	625	GLN
1	A	717	ASN
1	A	721	GLN
1	A	749	ASN
1	A	769	GLN
1	A	795	GLN
1	A	816	ASN
1	A	834	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	A	878	GLN
1	A	962	GLN
1	A	969	ASN
1	A	1003	HIS
1	A	1032	GLN
1	A	1039	ASN
1	A	1099	GLN
1	A	1108	GLN
1	A	1114	GLN
1	A	1149	ASN
1	A	1235	ASN
1	A	1244	ASN
1	A	1253	HIS
1	B	60	HIS
1	B	83	ASN
1	B	87	ASN
1	B	153	ASN
1	B	154	GLN
1	B	179	ASN
1	B	274	ASN
1	B	276	ASN
1	B	379	HIS
1	B	385	GLN
1	B	387	ASN
1	B	394	HIS
1	B	404	GLN
1	B	434	GLN
1	B	437	GLN
1	B	458	ASN
1	B	515	GLN
1	B	625	GLN
1	B	717	ASN
1	B	721	GLN
1	B	747	ASN
1	B	749	ASN
1	B	769	GLN
1	B	795	GLN
1	B	816	ASN
1	B	834	GLN
1	B	852	GLN
1	B	878	GLN
1	B	963	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	B	969	ASN
1	B	1003	HIS
1	B	1032	GLN
1	B	1039	ASN
1	B	1099	GLN
1	B	1108	GLN
1	B	1114	GLN
1	B	1149	ASN
1	B	1235	ASN
1	B	1244	ASN
1	B	1253	HIS

5.3.3 RNA

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates

There are no monosaccharides in this entry.

5.6 Ligand geometry

4 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	2J8	A	6002	-	9,18,39	1.49	1 (11%)	8,24,57	1.30	2 (25%)
2	2J8	B	6003	-	21,39,39	1.50	3 (14%)	24,57,57	1.25	3 (12%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
2	2J8	B	6004	-	9,18,39	1.62	1 (11%)	8,24,57	1.43	2 (25%)
2	2J8	A	6001	-	21,39,39	1.49	3 (14%)	24,57,57	1.32	5 (20%)

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	2J8	A	6002	-	-	0/8/16/48	0/2/2/4
2	2J8	B	6003	-	-	0/24/48/48	0/3/4/4
2	2J8	B	6004	-	-	0/8/16/48	0/2/2/4
2	2J8	A	6001	-	-	0/24/48/48	0/3/4/4

All (8) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	6004	2J8	C16-N17	4.45	1.44	1.34
2	A	6002	2J8	C16-N17	4.17	1.43	1.34
2	B	6003	2J8	C16-N17	4.10	1.43	1.34
2	A	6001	2J8	C16-N17	3.66	1.42	1.34
2	A	6001	2J8	C02-N03	3.57	1.42	1.34
2	A	6001	2J8	C09-N10	3.56	1.42	1.34
2	B	6003	2J8	C09-N10	3.40	1.42	1.34
2	B	6003	2J8	C02-N03	2.95	1.41	1.34

All (12) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	A	6001	2J8	C36-C34-C18	2.70	114.63	111.33
2	B	6004	2J8	C18-N17-C16	2.65	127.28	121.94
2	A	6001	2J8	C11-N10-C09	2.65	127.26	121.94
2	B	6004	2J8	C36-C34-C18	2.59	114.50	111.33
2	A	6002	2J8	C36-C34-C18	2.50	114.38	111.33
2	A	6001	2J8	C04-N03-C02	2.44	126.84	121.94
2	B	6003	2J8	C11-N10-C09	2.42	126.82	121.94
2	B	6003	2J8	C18-N17-C16	2.38	126.72	121.94
2	B	6003	2J8	C36-C34-C18	2.38	114.23	111.33
2	A	6001	2J8	C32-C31-C11	2.37	114.22	111.33
2	A	6001	2J8	C18-N17-C16	2.35	126.66	121.94
2	A	6002	2J8	C18-N17-C16	2.20	126.37	121.94

There are no chirality outliers.

There are no torsion outliers.

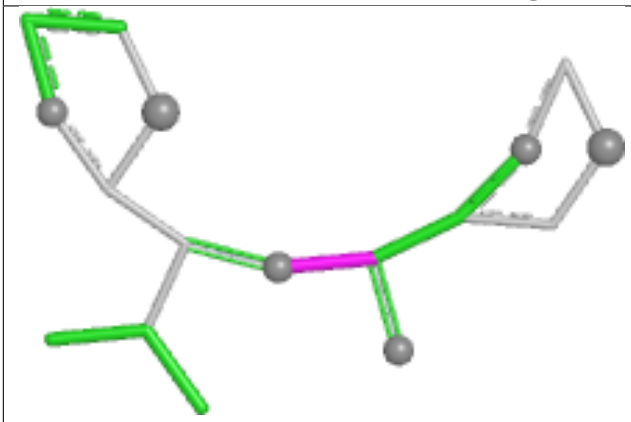
There are no ring outliers.

4 monomers are involved in 25 short contacts:

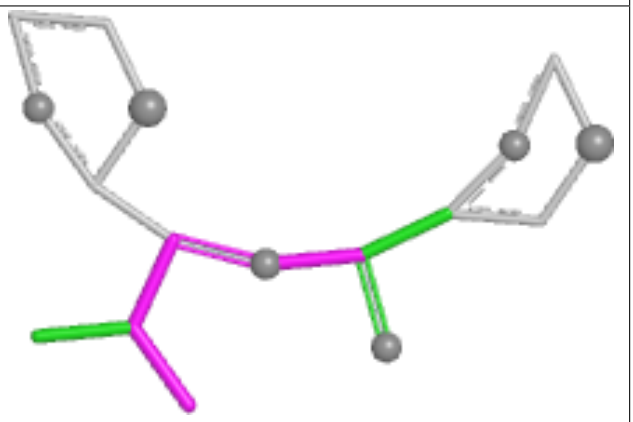
Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	6002	2J8	1	0
2	B	6003	2J8	16	0
2	B	6004	2J8	4	0
2	A	6001	2J8	4	0

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 then 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.

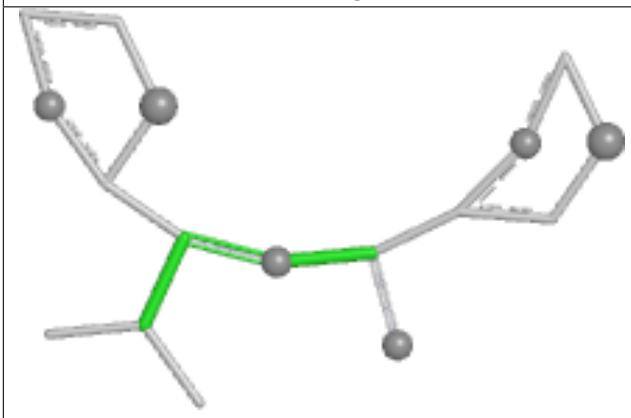
Ligand 2J8 A 6002



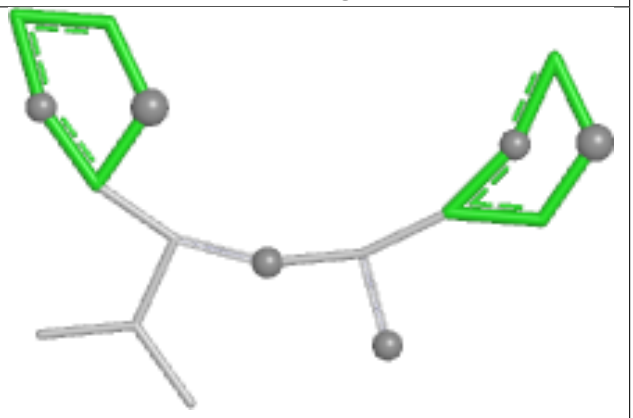
Bond lengths



Bond angles

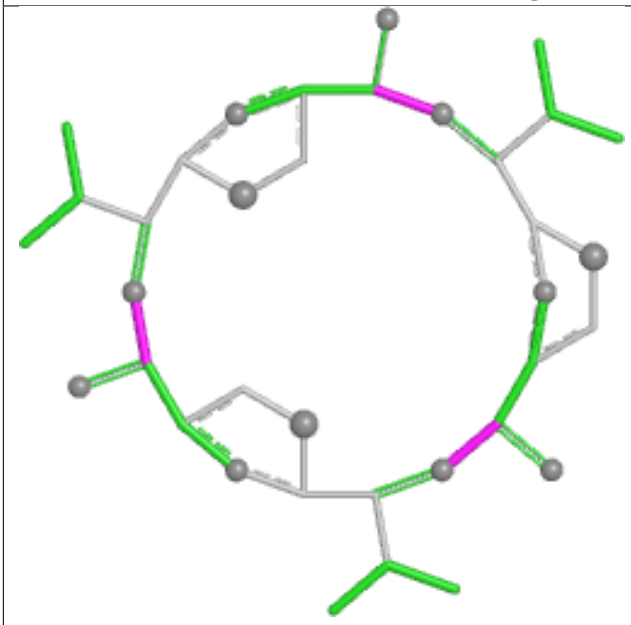


Torsions

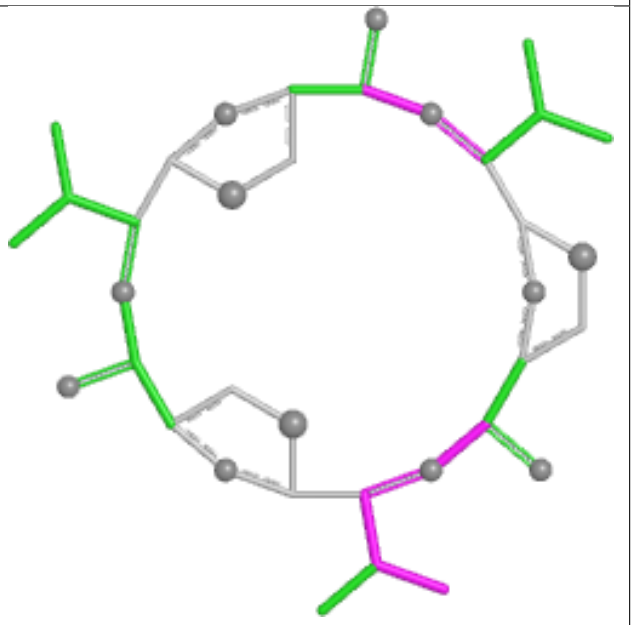


Rings

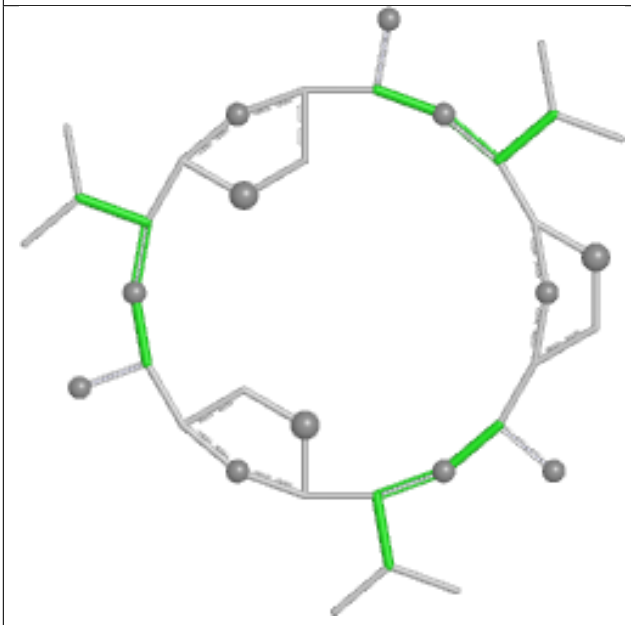
Ligand 2J8 B 6003



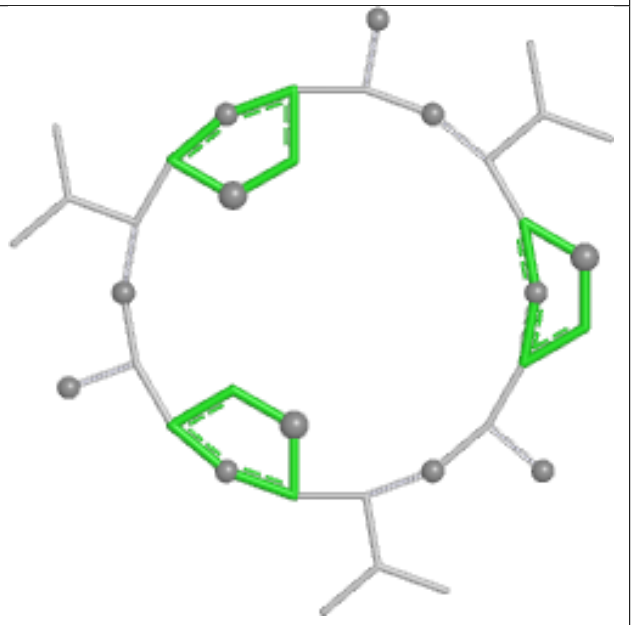
Bond lengths



Bond angles

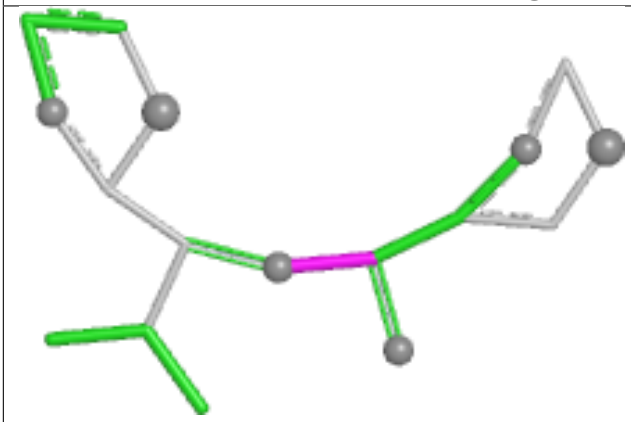


Torsions

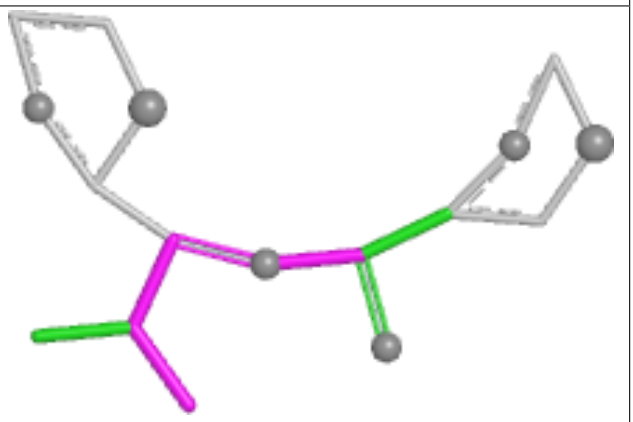


Rings

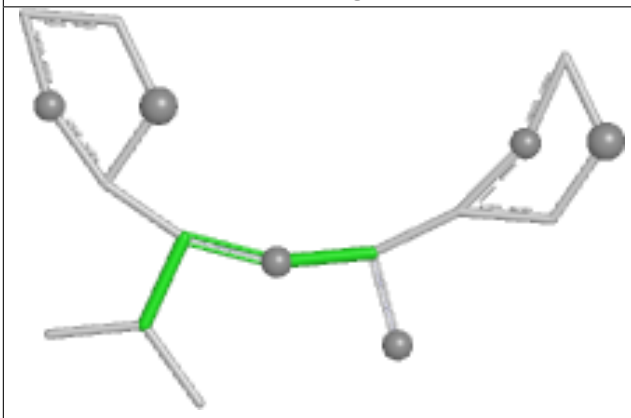
Ligand 2J8 B 6004



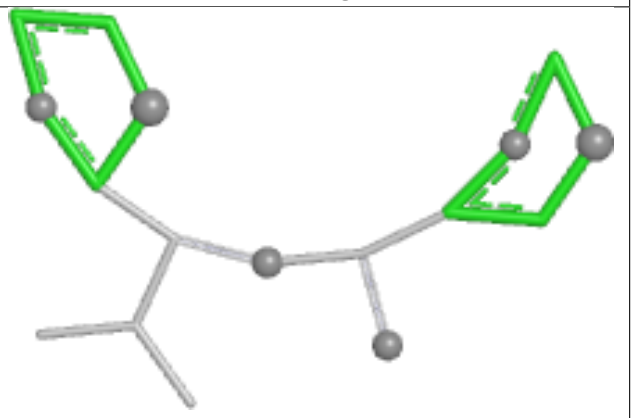
Bond lengths



Bond angles

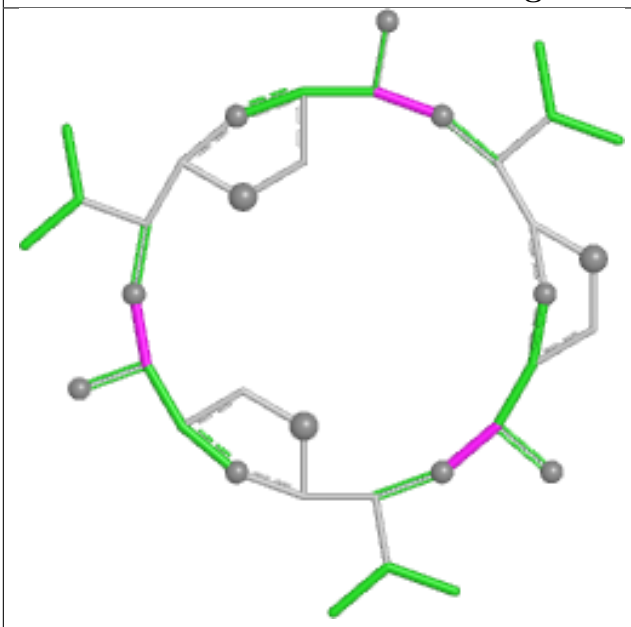


Torsions

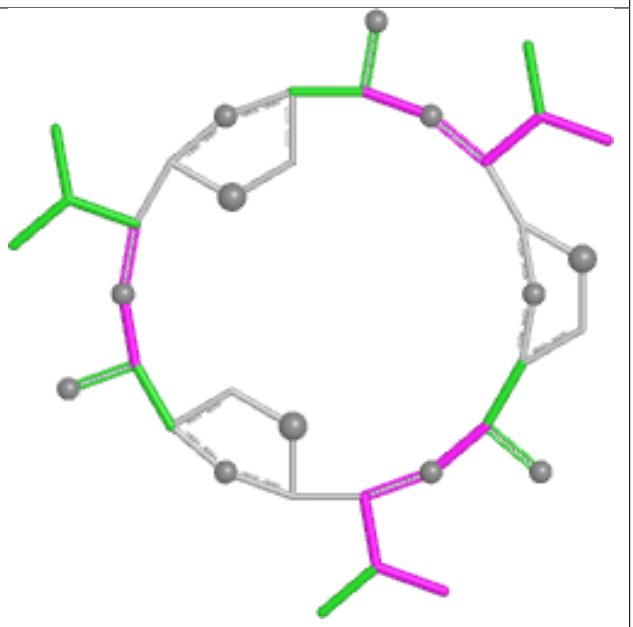


Rings

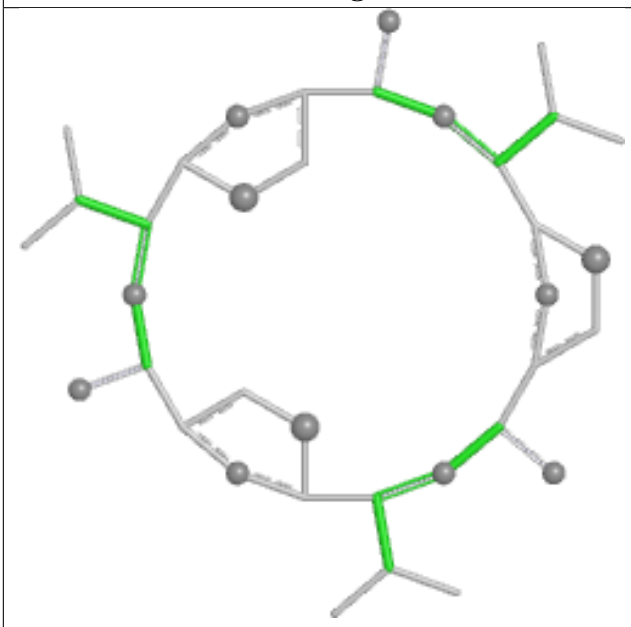
Ligand 2J8 A 6001



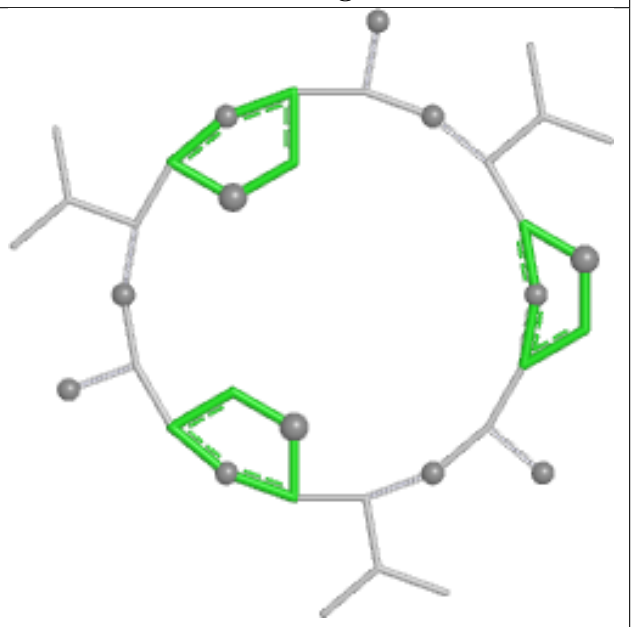
Bond lengths



Bond angles



Torsions



Rings

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.

6 Fit of model and data

6.1 Protein, DNA and RNA chains

In the following table, the column labelled '#RSRZ> 2' contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95^{th} 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	1182/1284 (92%)	-0.58	3 (0%)	94	90	115, 180, 210, 247	0
1	B	1182/1284 (92%)	-0.56	3 (0%)	94	90	97, 183, 214, 303	0
All	All	2364/2568 (92%)	-0.57	6 (0%)	94	90	97, 182, 212, 303	0

All (6) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	1024	PRO	3.7
1	A	962	GLN	3.4
1	B	1244	ASN	3.0
1	A	1228	HIS	2.4
1	A	624	THR	2.1
1	B	962	GLN	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

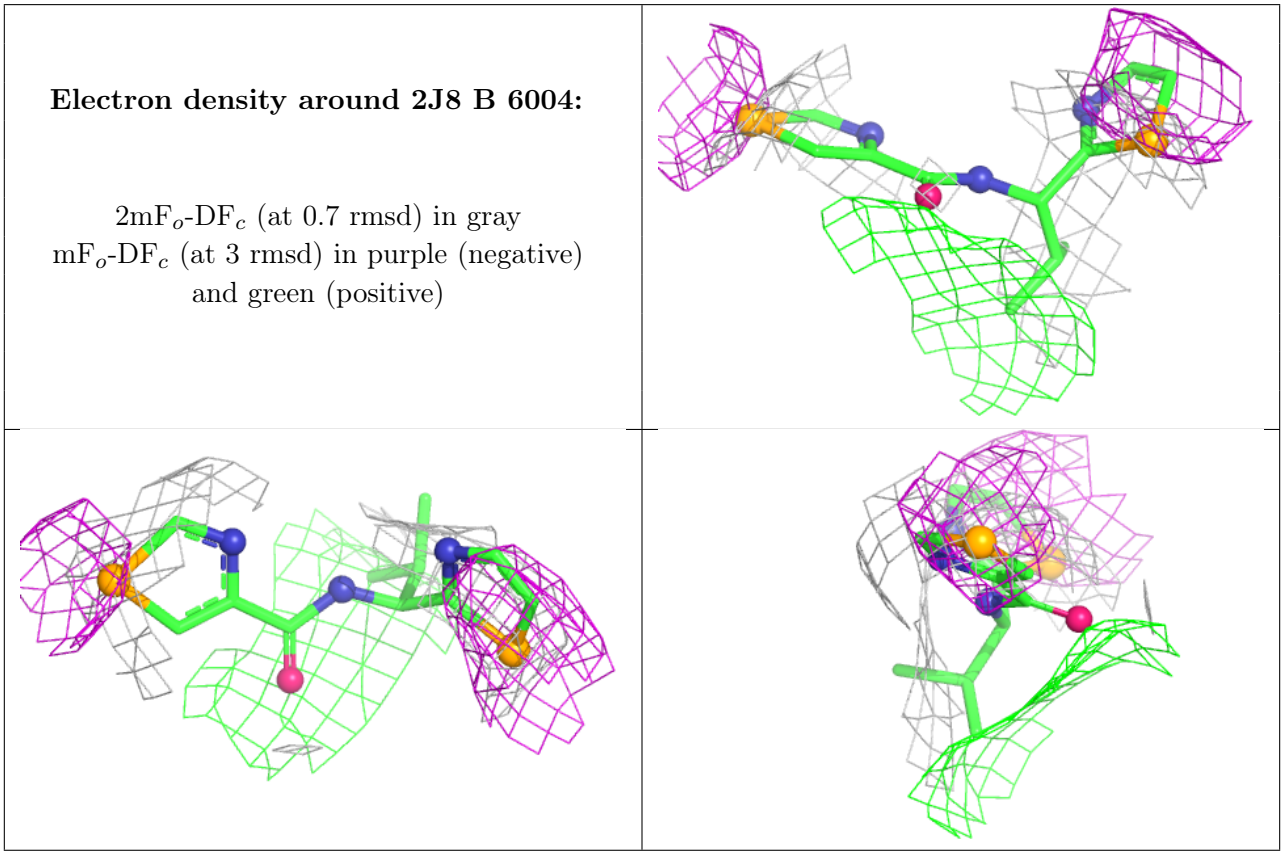
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95^{th} percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9'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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
2	2J8	B	6004	17/36	0.52	0.48	185,185,185,185	0
2	2J8	A	6002	17/36	0.68	0.52	185,185,185,185	0
2	2J8	B	6003	36/36	0.69	0.44	185,185,185,185	0
2	2J8	A	6001	36/36	0.80	0.36	185,185,185,185	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.

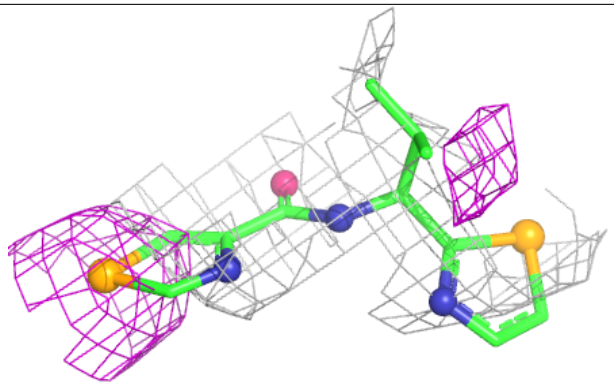
Electron density around 2J8 B 6004:

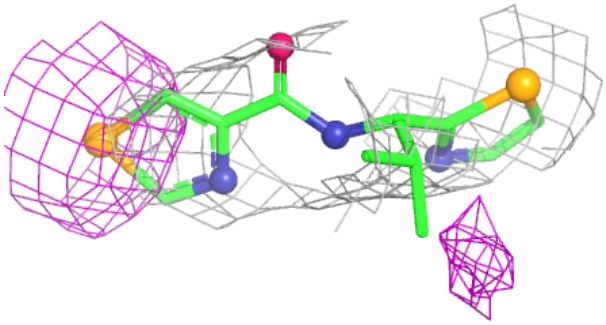
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

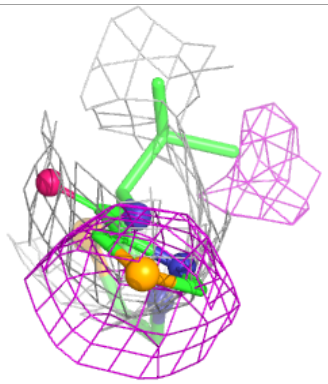


Electron density around 2J8 A 6002:

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

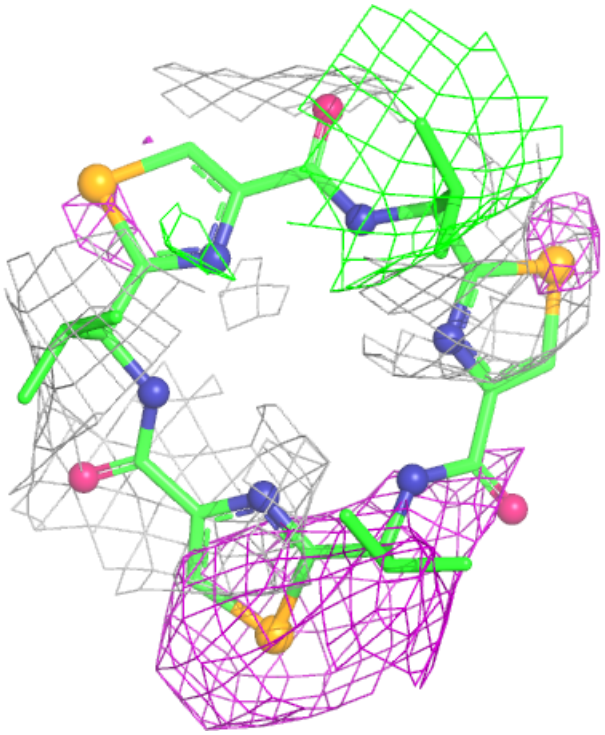


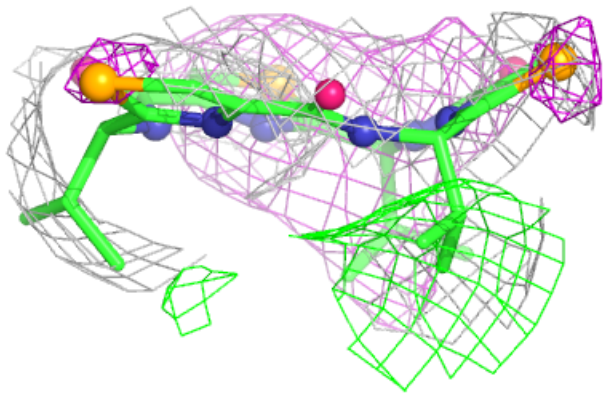


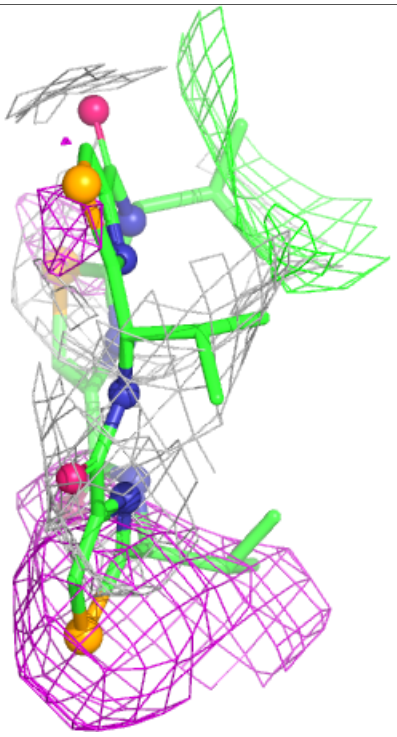


Electron density around 2J8 B 6003:

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

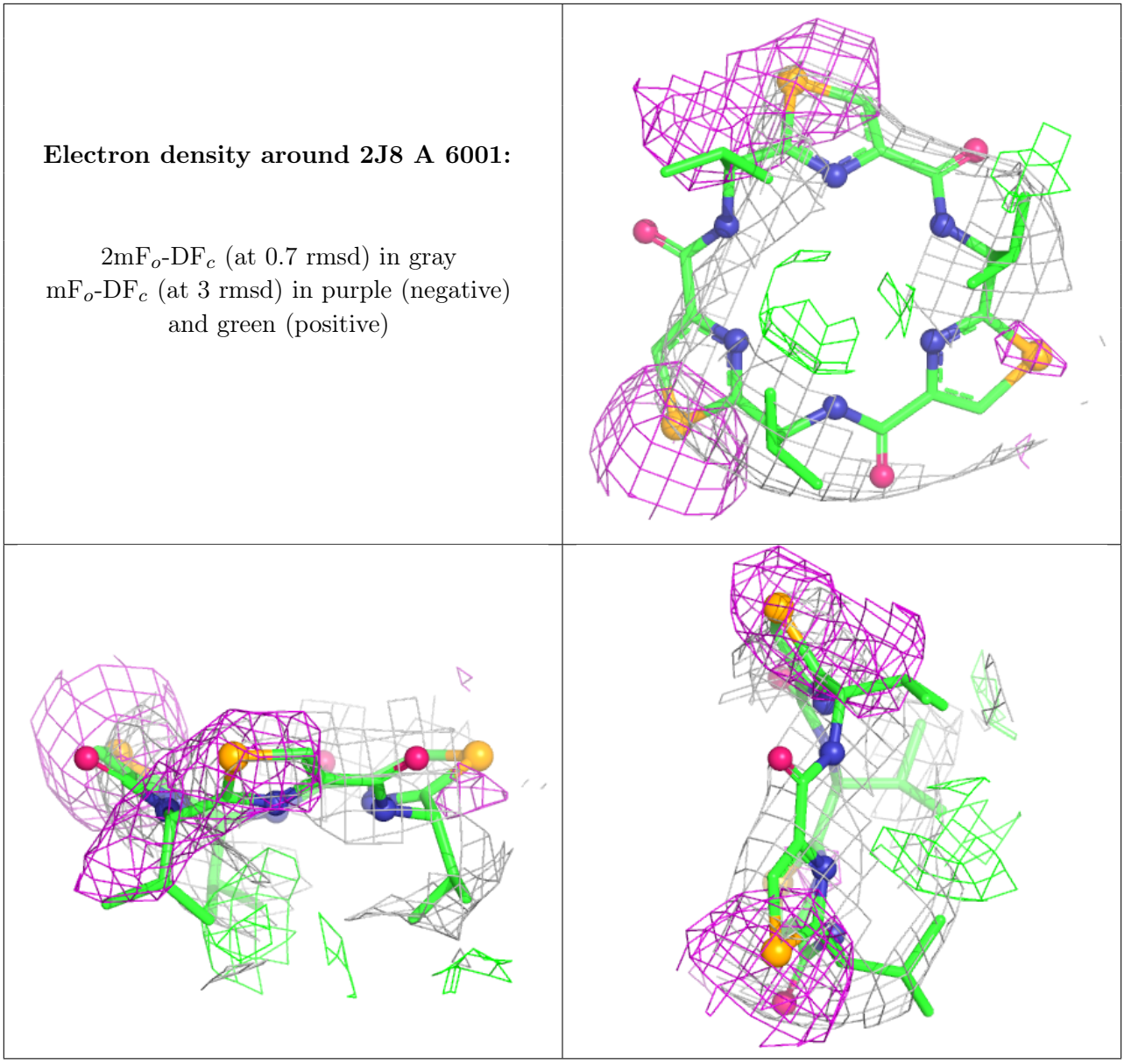






Electron density around 2J8 A 6001:

$2mF_o$-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

There are no such residues in this entry.