Full wwPDB EM Validation Report ⓘ

Mar 6, 2026 – 12:09 PM UTC

PDB ID	:	5ZAP / pdb_00005zap
EMDB ID	:	EMD-6907
Title	:	Atomic structure of the herpes simplex virus type 2 B-capsid
Authors	:	Yuan, S.; Wang, J.L.; Zhu, D.J.; Wang, N.; Gao, Q.; Chen, W.Y.; Tang, H.; Wang, J.Z.; Zhang, X.Z.; Liu, H.R.; Rao, Z.H.; Wang, X.X.
Deposited on	:	2018-02-08
Resolution	:	3.10 Å(reported)

This is a Full wwPDB EM Validation Report for a publicly released PDB entry.

We welcome your comments at *validation@mail.wwpdb.org*
A user guide is available at
https://www.wwpdb.org/validation/2017/EMValidationReportHelp
with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at
http://www.wwpdb.org/validation/2017/FAQs#types.

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

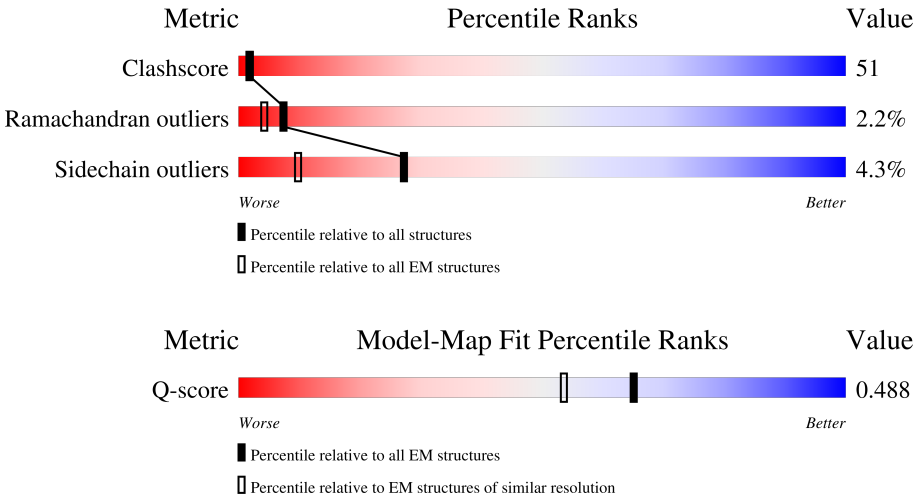
EMDB validation analysis	:	0.0.1.dev132
MolProbity	:	4-5-2 with Phenix2.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics	:	202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

1 Overall quality at a glance (i)

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

The reported resolution of this entry is 3.10 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	14724 (2.60 - 3.60)

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

Mol	Chain	Length	Quality of chain
1	A	1374	19% 48% 45% 5% ••
1	B	1374	16% 48% 43% 6% ••
1	C	1374	15% 50% 43% 5% ••
1	D	1374	18% 49% 44% 5% ••

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
1	E	1374	18% 54% 40%
1	F	1374	15% 51% 43% 5%
1	G	1374	48% 42% 49% 8%
1	H	1374	21% 51% 43% 5%
1	I	1374	14% 48% 44% 6%
1	J	1374	22% 36% 53% 9%
1	K	1374	11% 47% 43% 7%
1	L	1374	12% 48% 43% 7%
1	M	1374	13% 47% 43% 8%
1	N	1374	16% 49% 42% 7%
1	O	1374	14% 49% 41% 7%
1	P	1374	14% 51% 40% 7%
2	Q	318	65% 51% 39% 6%
2	R	318	72% 46% 41% 8%
2	T	318	40% 52% 36% 6% 6%
2	U	318	37% 51% 37% 8%
2	W	318	42% 49% 40% 5% 6%
2	X	318	39% 46% 43% 8%
2	Z	318	41% 47% 39% 8% 6%
2	a	318	44% 40% 42% 12%
2	c	318	36% 51% 38% 6%
2	d	318	30% 50% 38% 8%
3	S	466	59% 27% 33% 9% 29%
3	V	466	52% 29% 35% 10% 26%
3	Y	466	51% 27% 35% 10% 26%

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
3	b	466	51% 26% 32% 11% 26%
3	e	466	50% 29% 32% 10% 26%
4	f	112	80% 12% 49% 27% 7%
4	g	112	91% 17% 49% 23% 6%
4	h	112	92% 18% 46% 26% 5%
4	i	112	88% 19% 48% 22% 6%
4	j	112	91% 18% 50% 21% 6%
4	k	112	89% 19% 46% 25% 6%
4	l	112	88% 17% 50% 23% 5%
4	m	112	94% 15% 52% 22% 6%
4	n	112	93% 23% 41% 25% 6%
4	o	112	92% 13% 52% 23% 7%
4	p	112	87% 20% 46% 23% 6%
4	q	112	88% 15% 50% 25% 5%
4	r	112	88% 15% 50% 25% 5%
4	s	112	90% 18% 46% 26% 5%
4	t	112	88% 17% 51% 21% 7%

2 Entry composition (i)

There are 4 unique types of molecules in this entry. The entry contains 205925 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called Major capsid protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	G	1365	Total	C	N	O	S	0	0
			10104	6424	1819	1807	54		
1	A	1365	Total	C	N	O	S	0	0
			10160	6460	1837	1809	54		
1	B	1350	Total	C	N	O	S	0	0
			10105	6411	1825	1815	54		
1	C	1362	Total	C	N	O	S	0	0
			10220	6484	1852	1829	55		
1	D	1362	Total	C	N	O	S	0	0
			10229	6488	1849	1837	55		
1	E	1362	Total	C	N	O	S	0	0
			10233	6490	1853	1835	55		
1	F	1362	Total	C	N	O	S	0	0
			10239	6494	1857	1833	55		
1	H	1362	Total	C	N	O	S	0	0
			10245	6498	1851	1841	55		
1	I	1361	Total	C	N	O	S	0	0
			10239	6494	1850	1840	55		
1	J	1362	Total	C	N	O	S	0	0
			10204	6477	1842	1831	54		
1	K	1362	Total	C	N	O	S	0	0
			10253	6502	1857	1839	55		
1	L	1362	Total	C	N	O	S	0	0
			10242	6493	1851	1843	55		
1	M	1365	Total	C	N	O	S	0	0
			10275	6515	1859	1846	55		
1	N	1362	Total	C	N	O	S	0	0
			10254	6499	1857	1843	55		
1	O	1362	Total	C	N	O	S	0	0
			10251	6500	1859	1837	55		
1	P	1362	Total	C	N	O	S	0	0
			10256	6502	1855	1844	55		

- Molecule 2 is a protein called Triplex capsid protein 2.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	Q	299	Total	C	N	O	S	0	0
			2078	1341	373	357	7		
2	R	307	Total	C	N	O	S	0	0
			2175	1405	392	370	8		
2	T	299	Total	C	N	O	S	0	0
			2078	1341	373	357	7		
2	U	307	Total	C	N	O	S	0	0
			2179	1407	393	371	8		
2	W	299	Total	C	N	O	S	0	0
			2078	1341	373	357	7		
2	X	308	Total	C	N	O	S	0	0
			2187	1411	394	374	8		
2	Z	299	Total	C	N	O	S	0	0
			2063	1334	366	356	7		
2	a	307	Total	C	N	O	S	0	0
			2169	1402	389	370	8		
2	c	299	Total	C	N	O	S	0	0
			2078	1341	373	357	7		
2	d	308	Total	C	N	O	S	0	0
			2187	1411	394	374	8		

- Molecule 3 is a protein called Triplex capsid protein 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	S	329	Total	C	N	O	S	0	0
			2267	1437	411	402	17		
3	V	346	Total	C	N	O	S	0	0
			2365	1500	432	416	17		
3	Y	347	Total	C	N	O	S	0	0
			2386	1512	437	420	17		
3	b	343	Total	C	N	O	S	0	0
			2331	1478	421	416	16		
3	e	343	Total	C	N	O	S	0	0
			2364	1497	435	415	17		

- Molecule 4 is a protein called Small capsomere-interacting protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	f	107	Total	C	N	O	S	0	0
			628	387	119	120	2		
4	g	107	Total	C	N	O	S	0	0
			628	387	119	120	2		
4	h	107	Total	C	N	O	S	0	0
			628	387	119	120	2		

Continued on next page...

Continued from previous page...

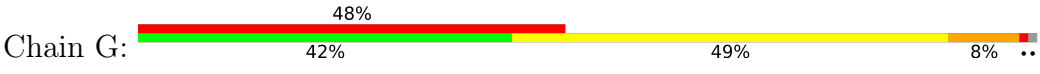
Mol	Chain	Residues	Atoms					AltConf	Trace
4	i	107	Total	C	N	O	S	0	0
			628	387	119	120	2		
4	j	107	Total	C	N	O	S	0	0
			632	390	120	120	2		
4	k	107	Total	C	N	O	S	0	0
			628	387	119	120	2		
4	l	107	Total	C	N	O	S	0	0
			628	387	119	120	2		
4	m	107	Total	C	N	O	S	0	0
			628	387	119	120	2		
4	n	107	Total	C	N	O	S	0	0
			625	385	119	120	1		
4	o	107	Total	C	N	O	S	0	0
			628	387	119	120	2		
4	p	107	Total	C	N	O	S	0	0
			628	387	119	120	2		
4	q	107	Total	C	N	O	S	0	0
			628	387	119	120	2		
4	r	107	Total	C	N	O	S	0	0
			632	390	120	120	2		
4	s	107	Total	C	N	O	S	0	0
			634	390	122	120	2		
4	t	107	Total	C	N	O	S	0	0
			628	387	119	120	2		

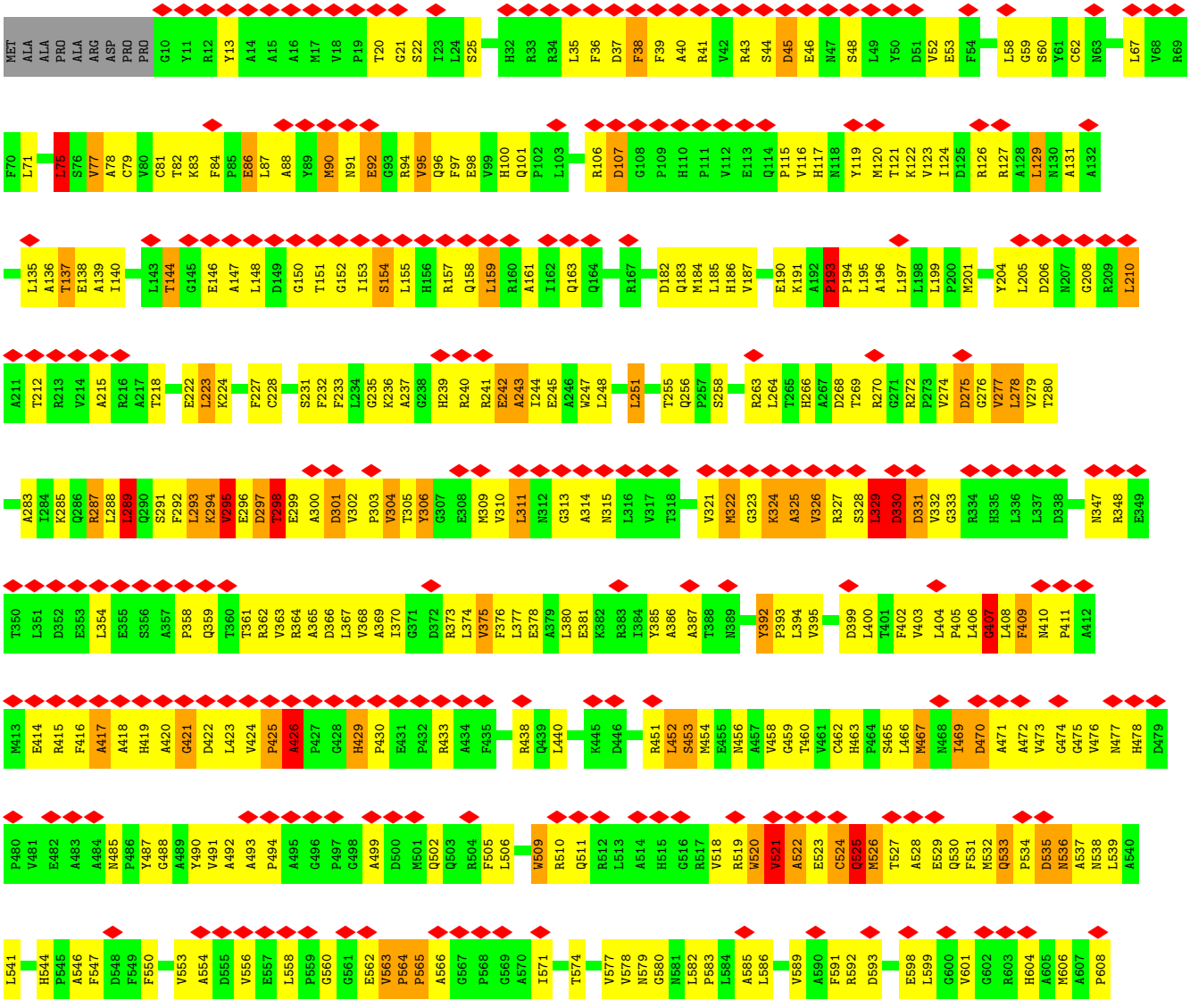
3 Residue-property plots (i)

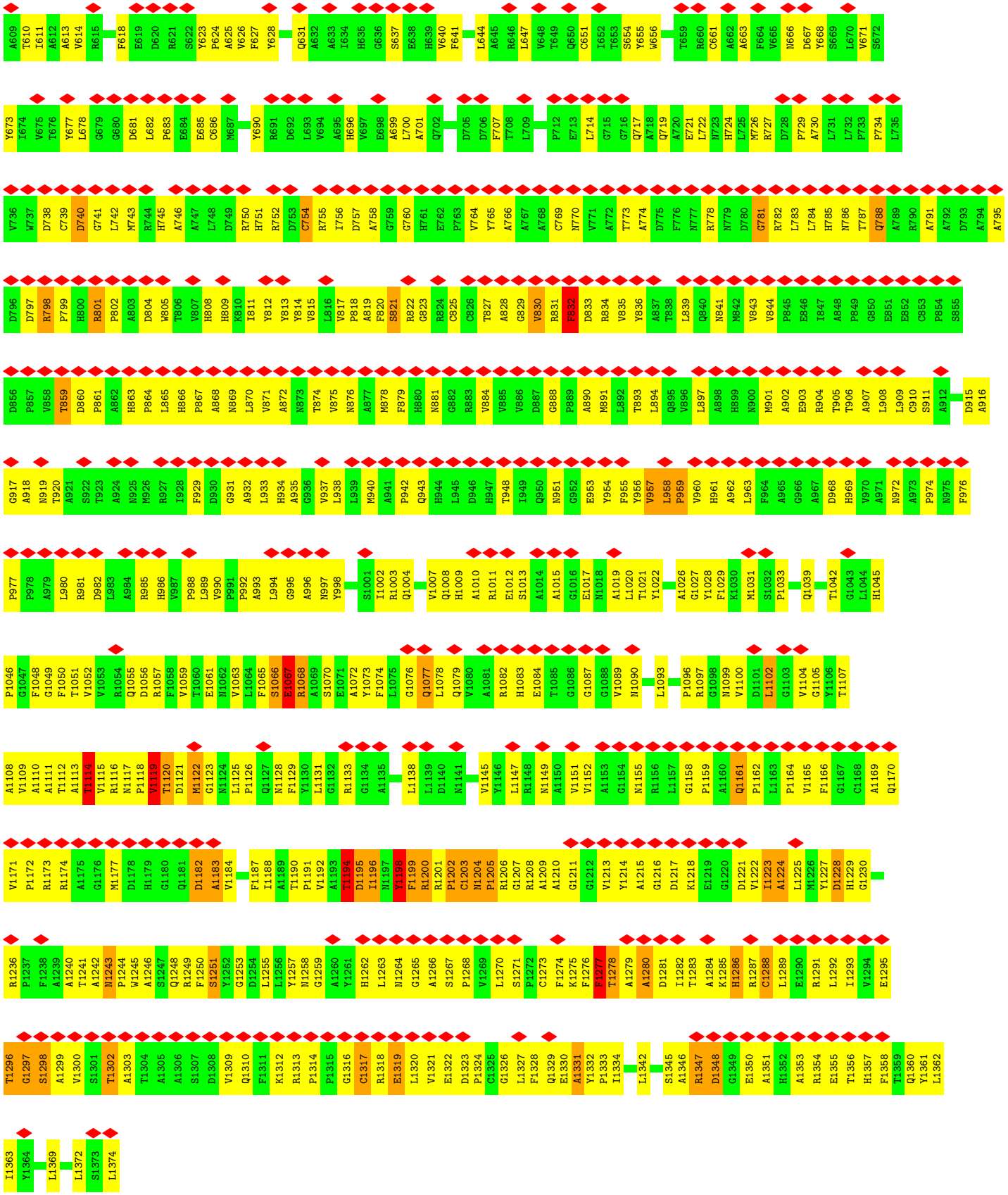
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion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

- Molecule 1: Major capsid protein

Chain G:

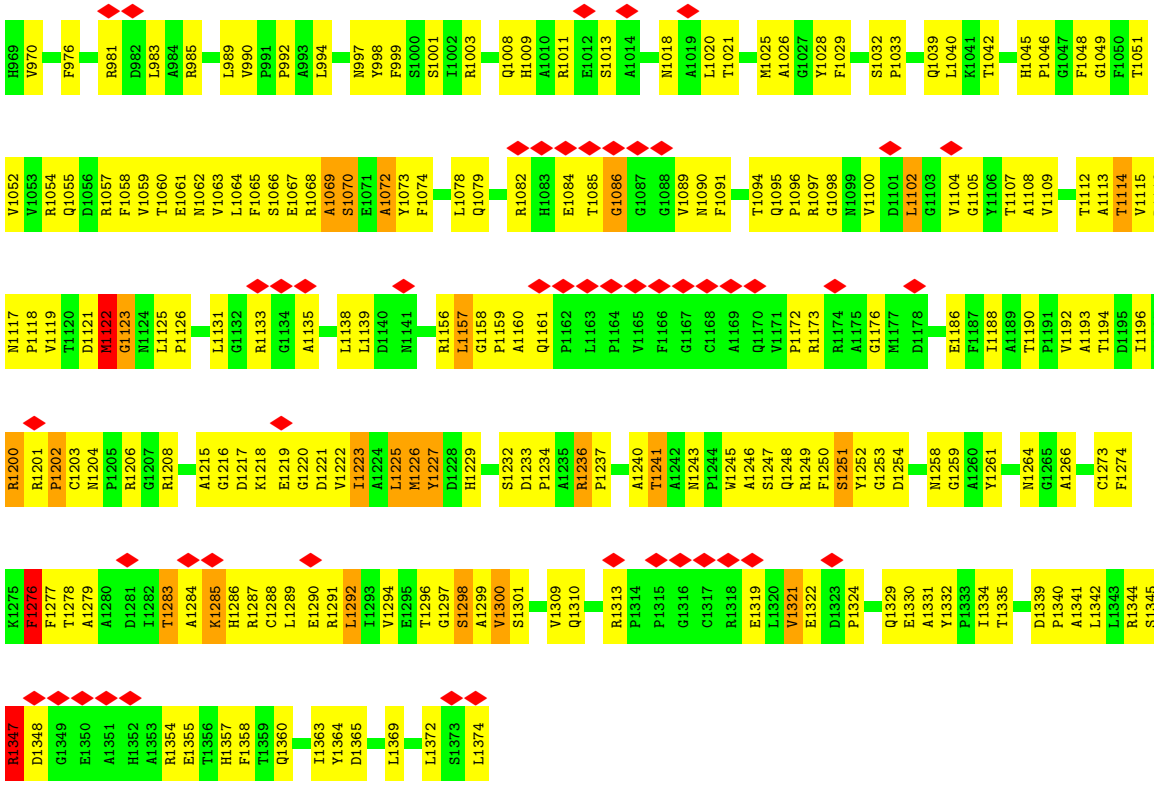






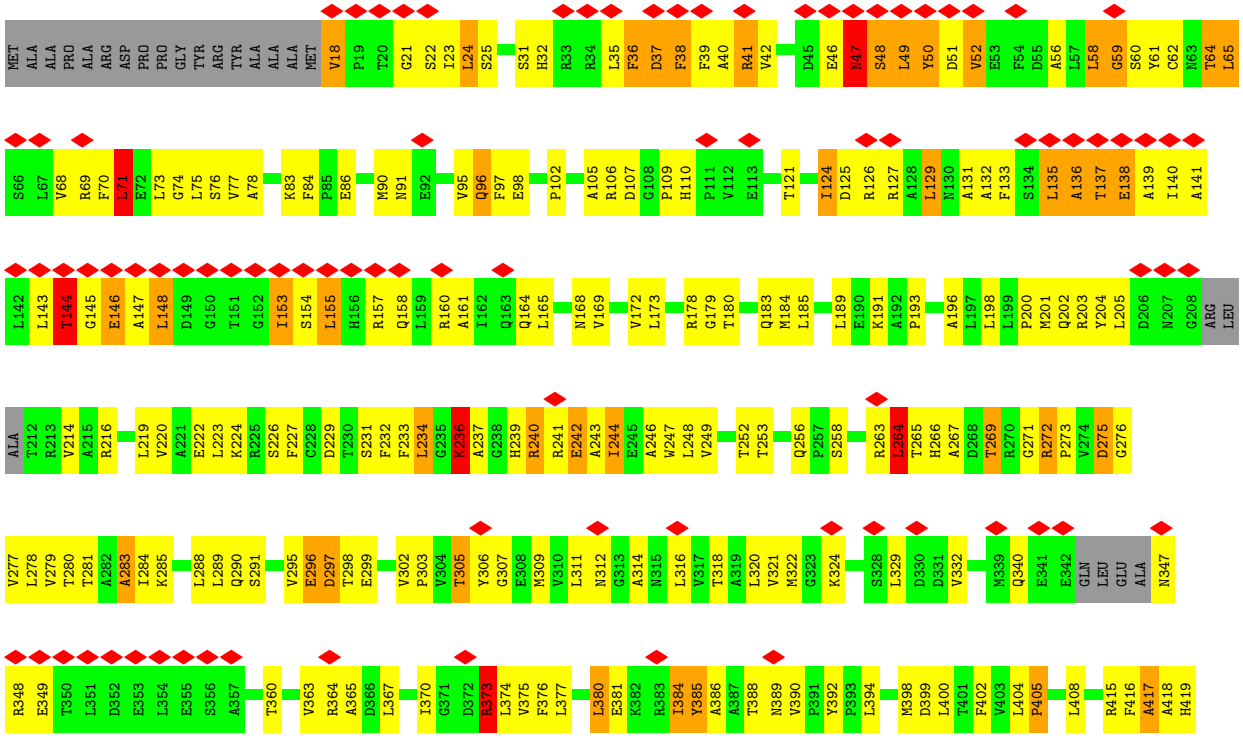
• Molecule 1: Major capsid protein

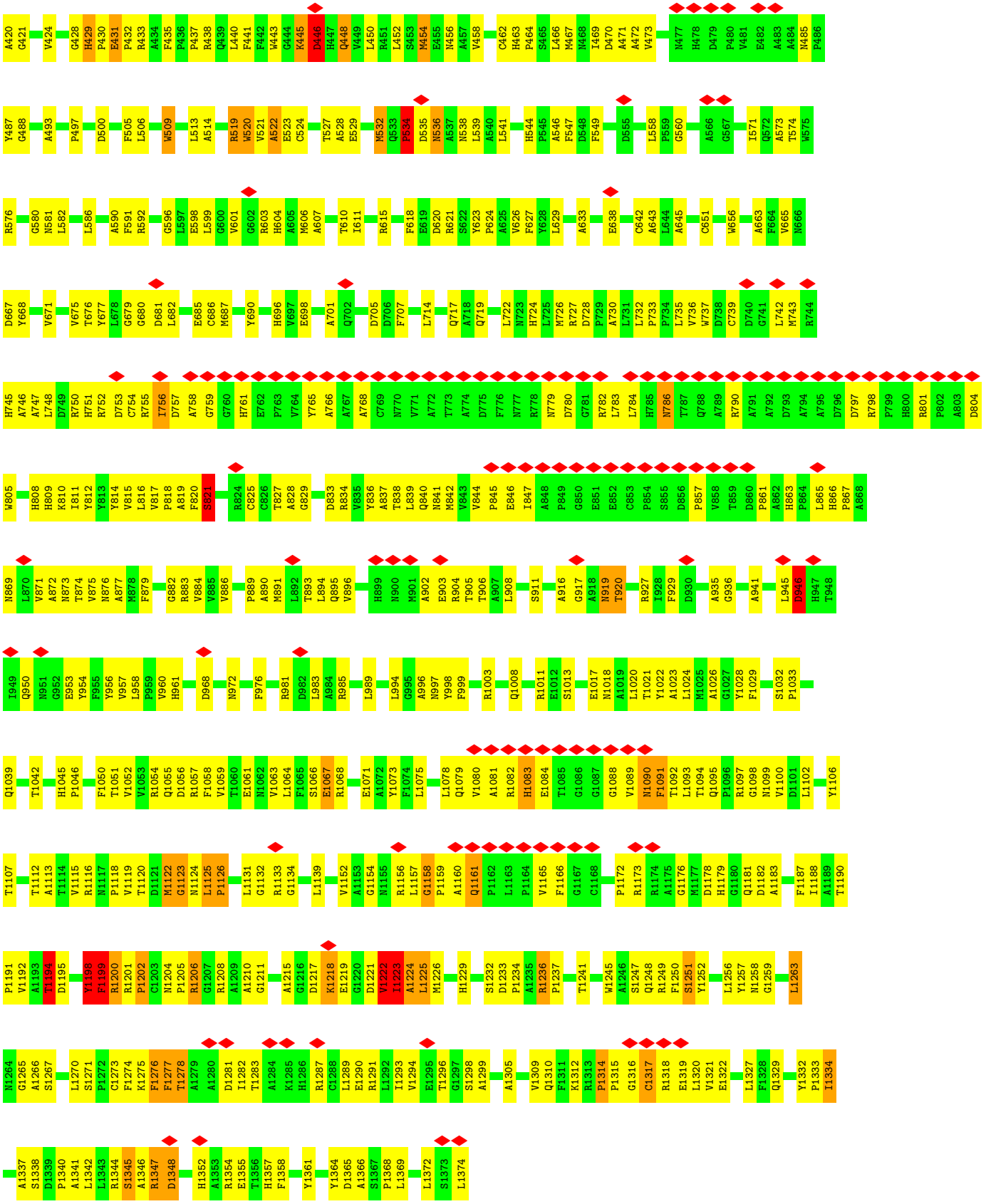
Chain A:



• Molecule 1: Major capsid protein

Chain B:

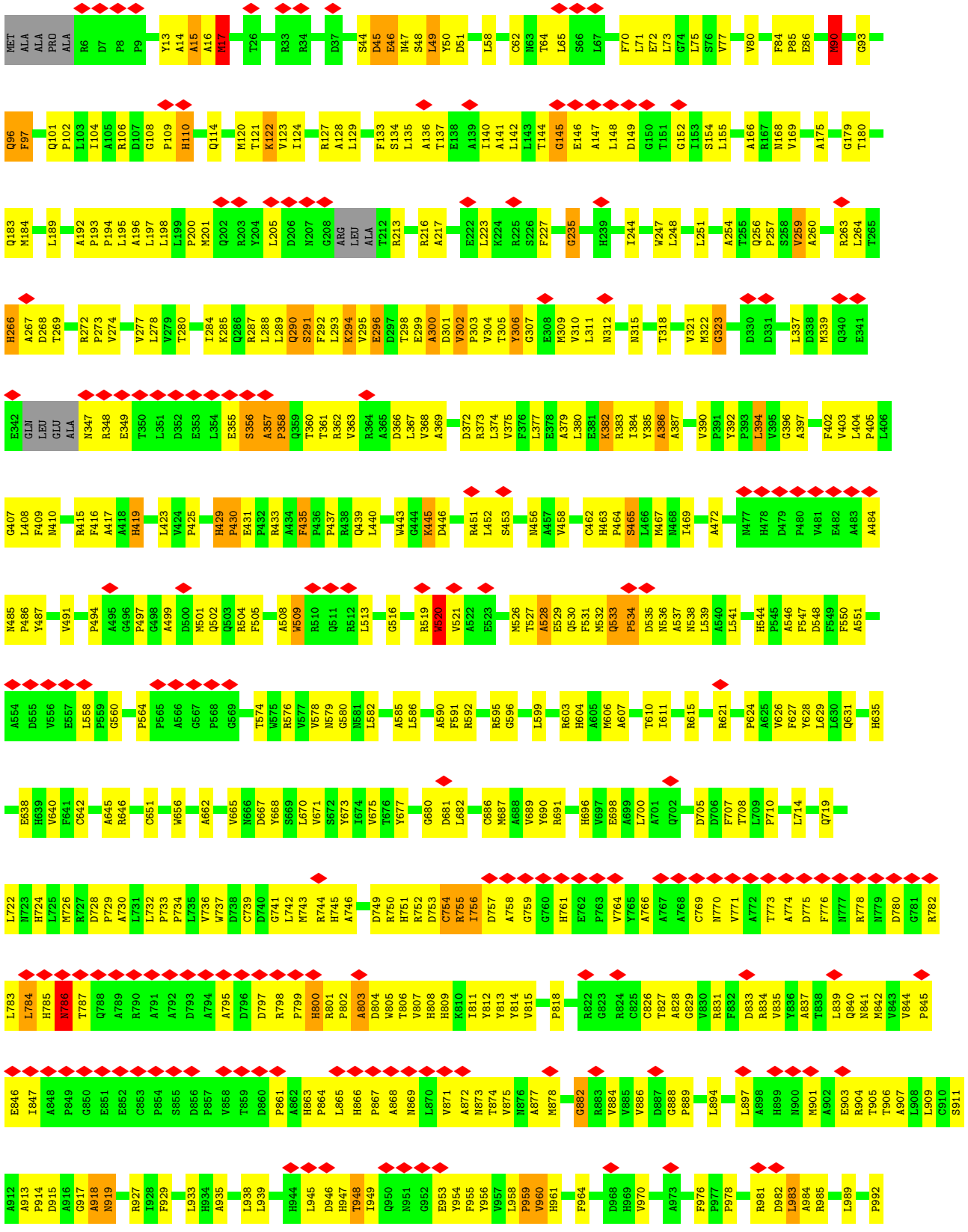


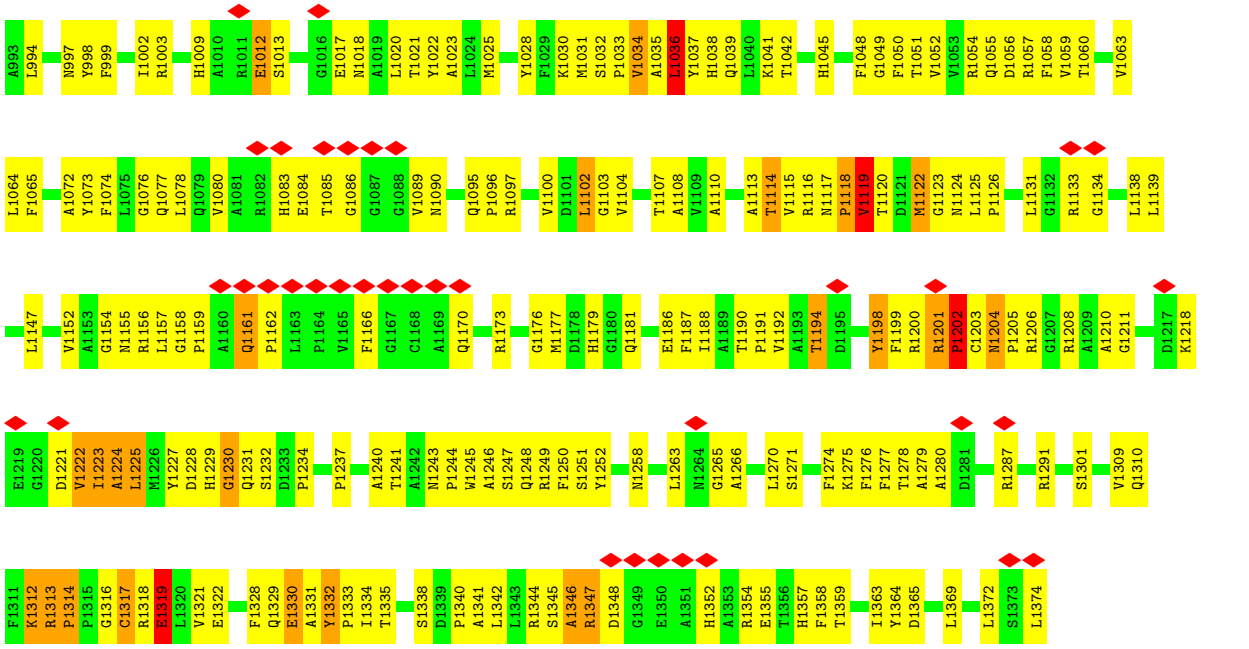


• Molecule 1: Major capsid protein

Chain C:

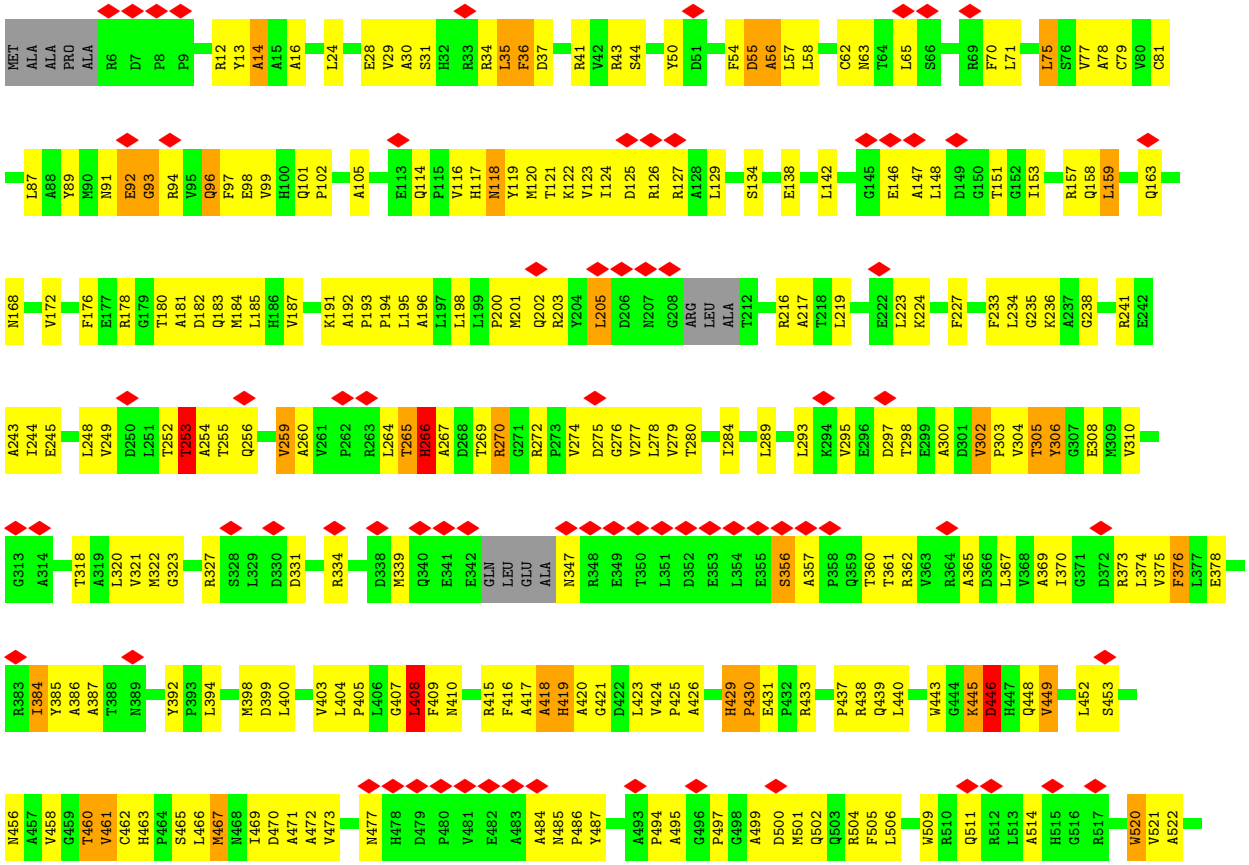
15%
50%
43%
5%

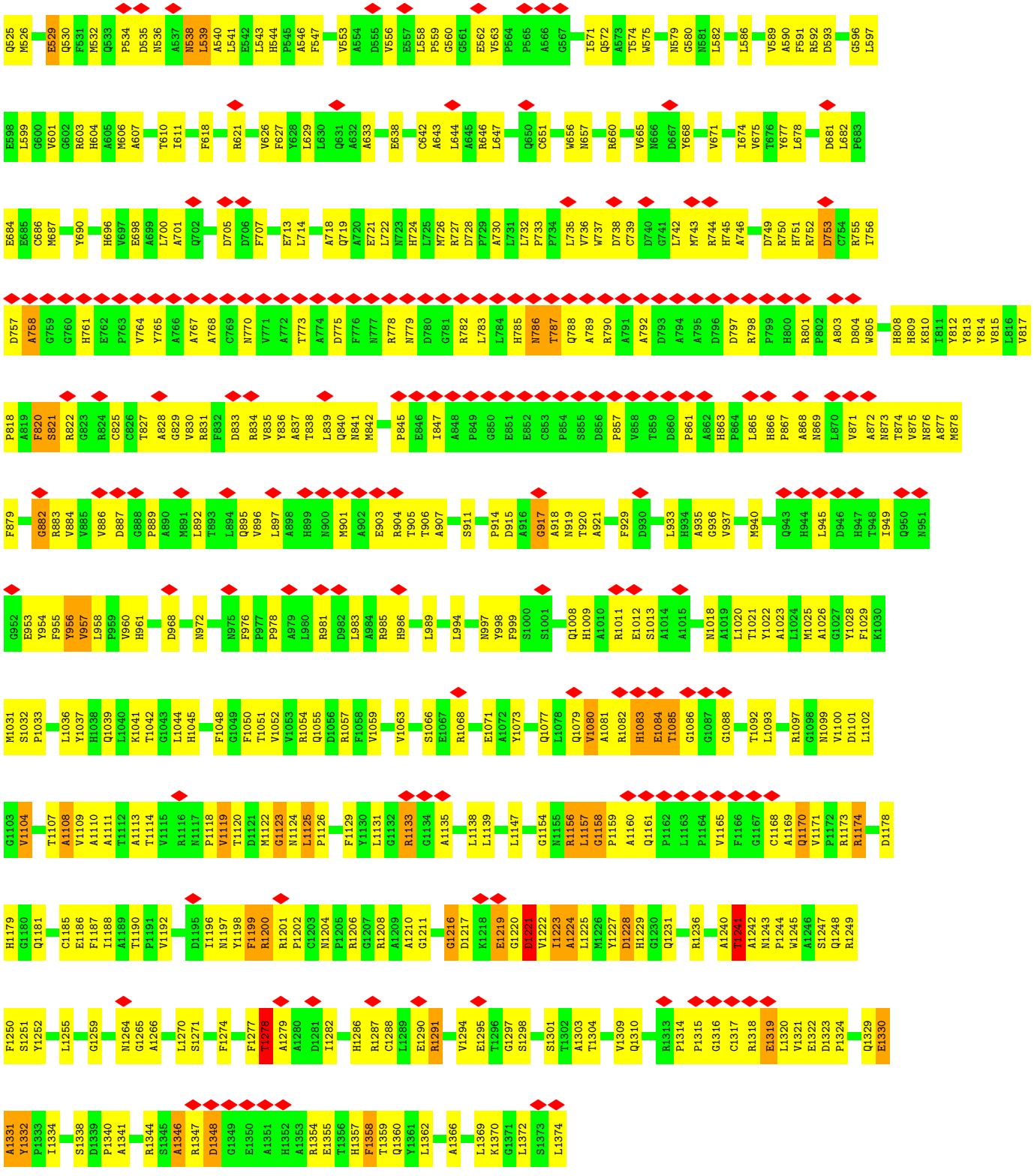

MET ALA ALA PRO ALA R6 D7 P8 P9 Y13 A14 A15 A16 M17 T26 R33 R34 D37 S44 D45 E46 N47 S48 L49 Y50 D51 L58 C62 M63 T64 L65 S66 L67 F70 L71 E72 L73 G74 L75 S76 V77 V80 F84 P85 E86 M90 G93
Q96 F97 Q101 P102 L103 I104 A105 R106 D107 G108 P109 H110 Q114 M120 T121 K122 V123 I124 R127 A128 L129 F133 S134 L135 A136 T137 E138 A139 I140 A141 L142 L143 T144 G145 E146 A147 L148 D149 G150 T151 G152 I153 S154 L155 A166 R167 N168 V169 A175 G179 T180
Q183 M184 L189 A192 P193 P194 L195 A196 L197 L198 L199 P200 M201 Q202 R203 Y204 L205 D206 N207 G208 ARG LEU ALA T212 R213 R216 A217 E222 L223 K224 R225 S226 F227 G235 H239 I244 W247 L248 L251 A254 T255 Q256 P257 S258 V259 A260 R263 L264 T265
H266 A267 D268 T269 R272 P273 V274 V277 L278 V279 T280 I284 K285 Q286 R287 L288 L289 Q290 S291 F292 L293 K294 V295 E296 D297 T298 E299 A300 D301 V302 P303 V304 T305 Y306 G307 E308 M309 V310 L311 N312 N315 T318 V321 M322 G323 D330 D331 L337 D338 M339 Q340 E341
E342 GLN LEU GLU ALA N347 R348 E349 T350 L351 D352 E353 L354 E355 S356 A357 P358 Q359 T360 T361 R362 V363 R364 A365 D366 L367 V368 A369 D372 R373 L374 V375 F376 L377 E378 A379 L380 E381 R382 R383 I384 Y385 A386 A387 V390 P391 Y392 P393 L394 V395 G396 A397 F402 V403 L404 P405 L406
G407 L408 F409 N410 R415 F416 A417 A418 H419 L423 V424 P425 H429 P430 E431 P432 R433 A434 F435 P436 P437 R438 Q439 L440 W443 G444 K445 D446 R451 L452 S453 N456 A457 V458 C462 H463 P464 S465 L466 M467 N468 I469 A472 N477 H478 D479 P480 V481 E482 A483 A484
N485 P486 Y487 V491 P494 A495 G496 P497 G498 A499 D500 M501 Q502 Q503 R504 F505 A508 W509 R510 Q511 R512 L513 G516 R519 W520 V521 A522 E523 M526 T527 A528 E529 Q530 F531 M532 Q533 P534 D535 N536 A537 N538 L539 A540 L541 H544 P545 A546 F547 D548 F549 F550 A551
A554 D555 V556 E557 L558 P559 G560 P564 P565 A566 G567 P568 G569 T574 W575 R576 V577 V578 N579 G580 N581 L582 A585 L586 A590 F591 R592 R595 G596 L599 R603 H604 A605 M606 A607 T610 I611 R615 R621 P624 A625 V626 F627 Y628 L629 L630 Q631 H635
E638 H639 V640 F641 C642 A645 R646 C651 W656 A662 V665 N666 D667 Y668 S669 L670 V671 S672 Y673 I674 V675 Y676 Y677 G680 D681 L682 C686 M687 A688 V689 Y690 R691 H696 V697 E698 A699 L700 A701 Q702 D705 D706 F707 T708 L709 P710 L714 Q719
L722 N723 H724 L725 M726 R727 D728 P729 A730 L731 L732 P733 P734 L735 V736 W737 D738 C739 D740 G741 L742 M743 R744 H745 A746 D749 R750 H751 R752 D753 G754 R755 I756 D757 A758 G759 G760 H761 E762 P763 V764 Y765 A766 A767 A768 C769 N770 V771 A772 T773 A774 D775 F776 N777 R778 N779 D780 G781 R782
L783 L784 H785 N786 T787 Q788 A789 R790 A791 A792 D793 A794 A795 D796 D797 R798 P799 H800 R801 P802 A803 D804 W805 T806 V807 H808 H809 K810 I811 Y812 Y813 Y814 V815 P818 R822 G823 R824 C825 C826 T827 A828 G829 V830 R831 F832 D833 R834 V835 Y836 A837 T838 L839 Q840 N841 M842 V843 V844 P845
E846 I847 A848 P849 G850 E851 E852 C853 P854 S855 D856 P857 V858 T859 D860 P861 A862 H863 P864 L865 H866 P867 A868 N869 L870 V871 A872 N873 T874 V875 N876 A877 M878 G882 R883 V884 V885 V886 D887 G888 P889 L894 L897 A898 H899 N900 M901 A902 E903 R904 T905 T906 A907 L908 L909 C910 S911
A912 A913 P914 D915 A916 G917 A918 N919 R927 I928 F929 L933 H934 A935 L938 L939 H944 L945 D946 H947 T948 I949 Q950 N951 G952 E953 Y954 F955 Y956 V957 L958 P959 V960 H961 F964 D968 H969 V970 A973 F976 P977 P978 R981 D982 L983 A984 R985 L989 P992



• Molecule 1: Major capsid protein

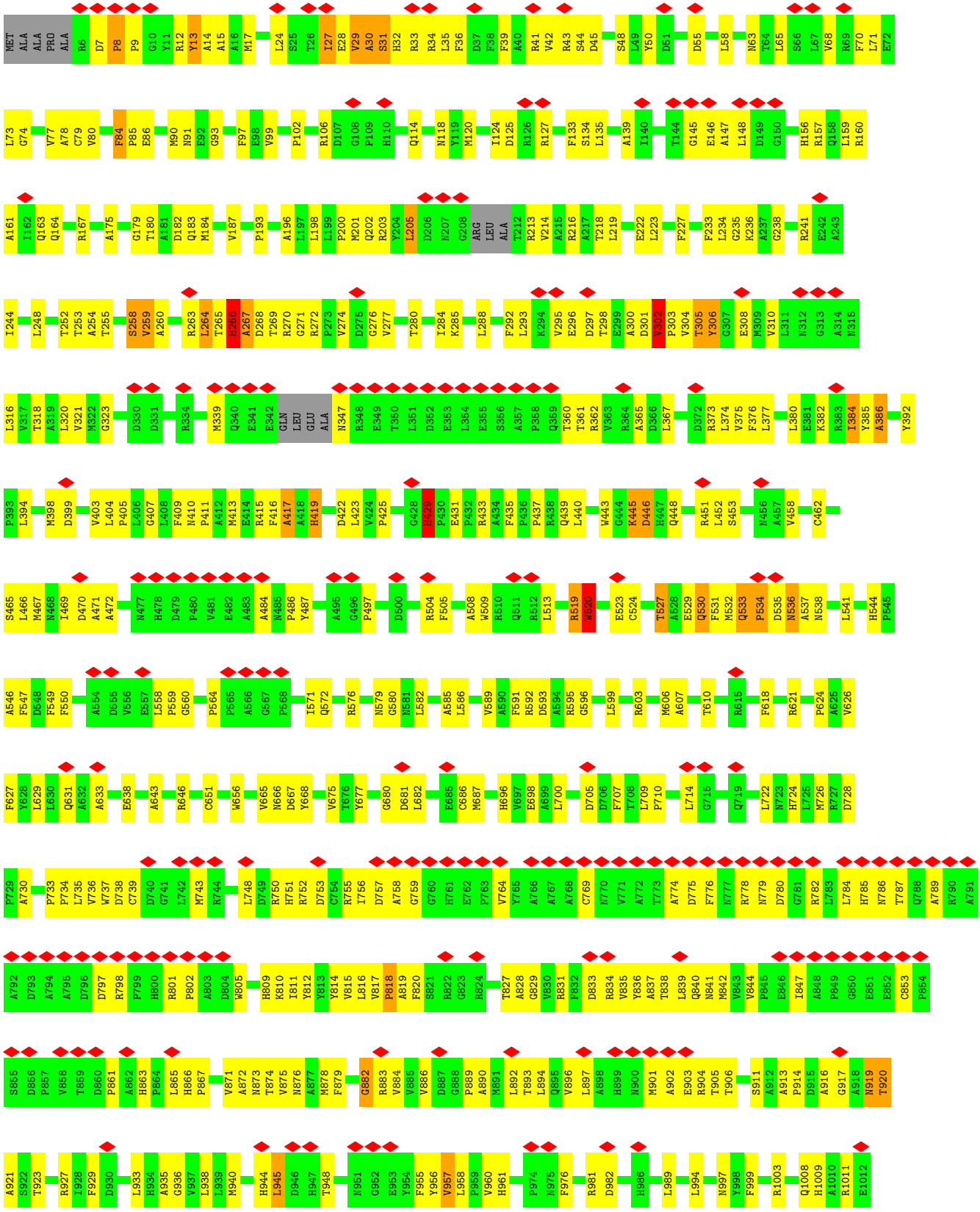
Chain D:

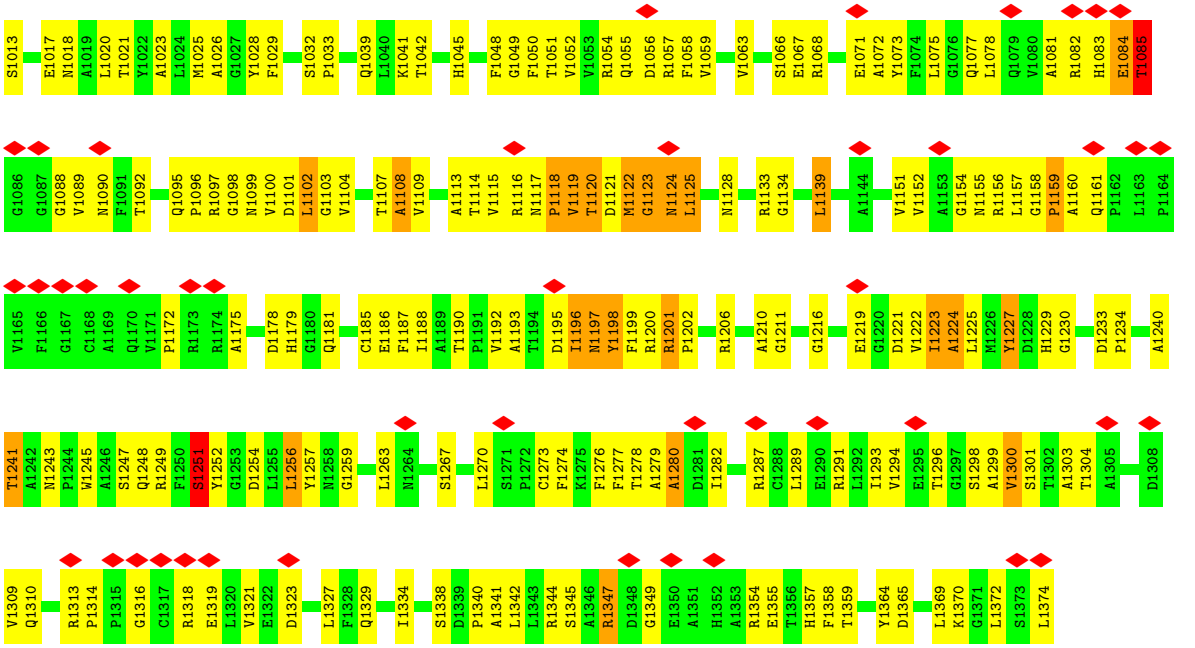




• Molecule 1: Major capsid protein

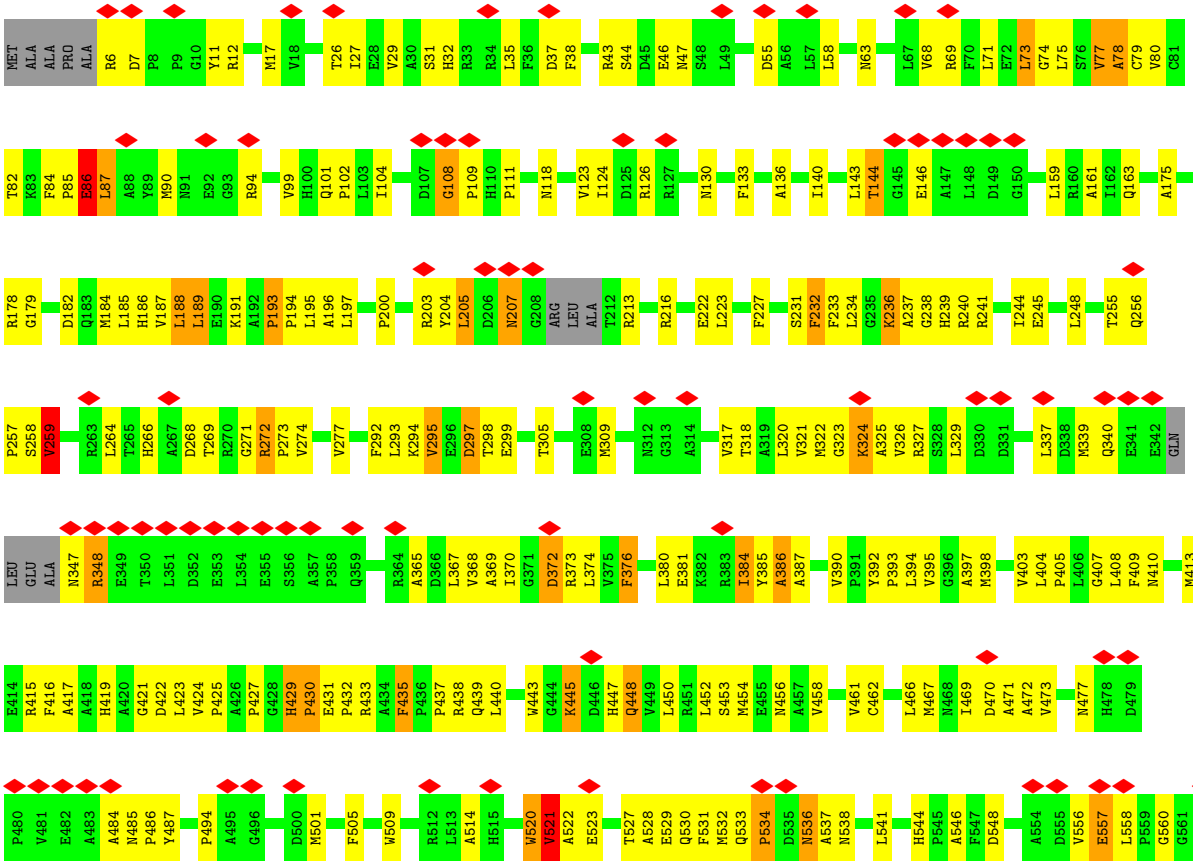
Chain E:

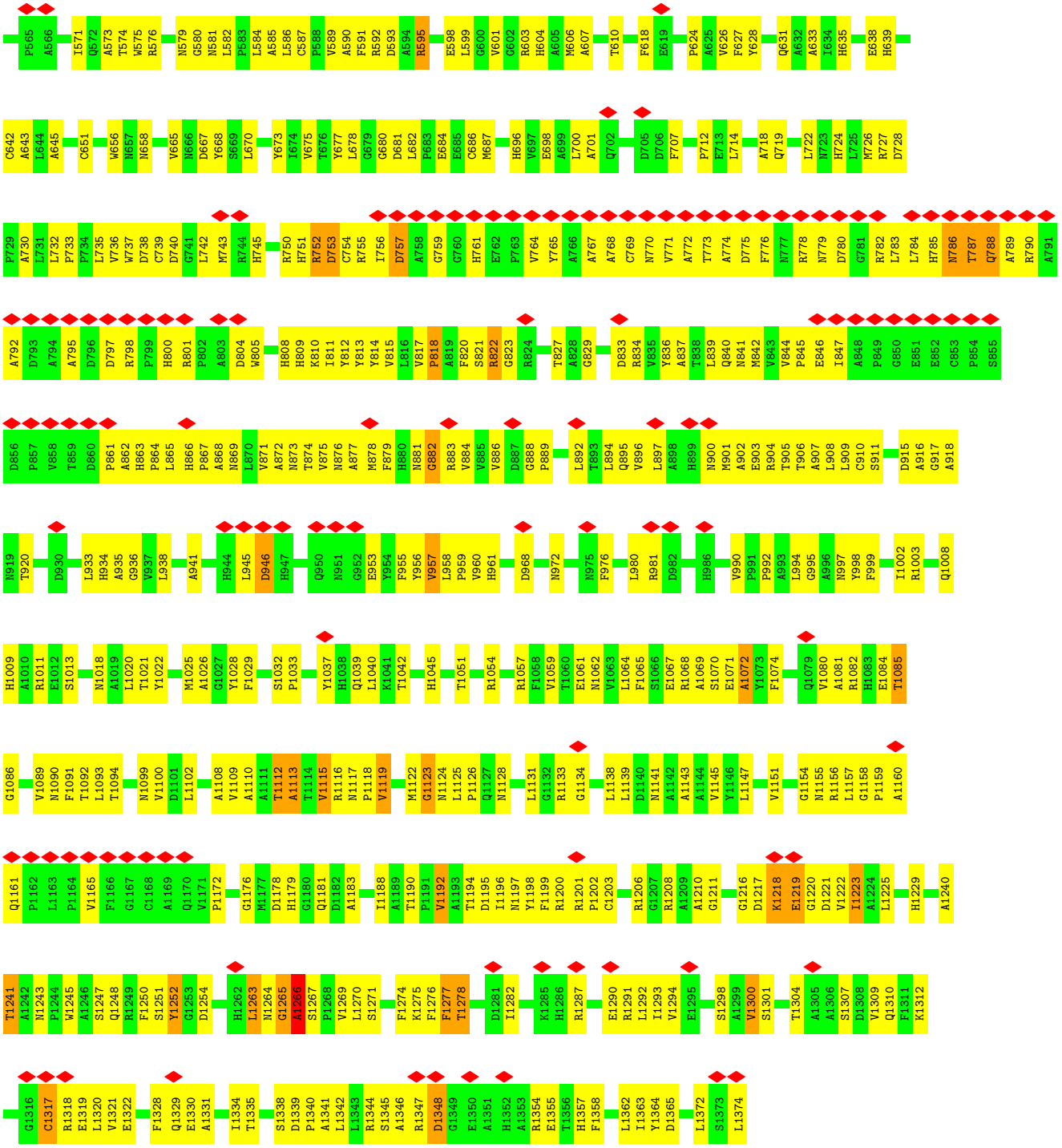

MET ALA ALA PRO ALA R6 D7 P8 P9 G10 Y11 R12 Y13 A14 A15 A16 M17 L24 S25 T26 I27 E28 V29 A30 S31 H32 R33 R34 L35 F36 D37 F38 F39 A40 R41 V42 R43 S44 D45 S48 L49 Y50 D51 D55 L58 N63 T64 L65 S66 L67 V68 R69 F70 L71 E72
L73 G74 V77 A78 C79 V80 F84 P85 E86 M90 N91 E92 G93 F97 E98 V99 P102 R106 D107 G108 P109 H110 Q114 N118 Y119 M120 I124 D125 R126 R127 F133 S134 L135 A139 T140 T144 G145 E146 A147 L148 D149 G150 H156 R157 Q158 L159 R160
A161 T162 Q163 Q164 R167 A175 G179 T180 A181 D182 Q183 M184 V187 P193 A196 L197 L198 L199 P200 M201 Q202 R203 Y204 L205 D206 N207 G208 ARG LEU ALA T212 R213 V214 A215 R216 A217 T218 L219 E222 L223 F227 F233 L234 G235 K236 A237 G238 R241 E242 A243
I244 L248 T252 T253 A254 T255 S258 V259 A260 R263 L264 T265 H266 A267 D268 T269 R270 G271 R272 P273 V274 D275 G276 V277 T280 I284 K285 L288 F292 L293 K294 V295 E296 D297 T298 E299 A300 D301 V302 P303 V304 T305 Y306 G307 E308 M309 V310 L311 N312 G313 A314 N315
L316 V317 T318 A319 L320 V321 M322 G323 D330 D331 R334 M339 Q340 E341 E342 GLN LEU GLU ALA N347 R348 E349 T350 L351 D352 E353 L354 E355 S356 A357 P358 Q359 T360 T361 R362 V363 R364 A365 D366 L367 D372 R373 L374 V375 F376 L377 L380 E381 K382 R383 I384 Y385 A386 Y392
P393 L394 M398 D399 V403 L404 P405 L406 G407 L408 F409 N410 P411 A412 M413 E414 R415 F416 A417 A418 H419 D422 L423 V424 P425 G428 H429 P430 E431 P432 R433 A434 F435 P436 P437 R438 Q439 L440 W443 G444 K445 D446 H447 Q448 R451 L452 S453 N456 A457 V458 C462
S465 L466 M467 N468 I469 D470 A471 A472 N477 H478 D479 P480 V481 E482 A483 A484 N485 P486 Y487 A495 G496 P497 D500 R504 F505 A508 W509 R510 Q511 R512 L513 R519 W520 E523 C524 T527 A528 E529 Q530 F531 M532 Q533 P534 D535 N536 A537 N538 L541 H544 P545
A546 F547 D548 F549 F550 A554 D555 V556 E557 L558 P559 G560 P564 P565 A566 G567 P568 I571 Q572 R576 N579 G580 N581 L582 A585 L586 V589 A590 F591 R592 D593 A594 R595 G596 L599 R603 M606 A607 T610 R615 F618 R621 P624 A625 V626
F627 Y628 L629 L630 Q631 A632 A633 E638 A643 R646 C651 W656 V665 N666 D667 Y668 V675 T676 Y677 G680 D681 L682 E685 C686 M687 H696 V697 E698 A699 L700 D705 D706 F707 T708 L709 P710 L714 G715 Q719 L722 N723 H724 L725 M726 R727 D728
P729 A730 P733 P734 L735 V736 W737 D738 C739 D740 G741 L742 M743 R744 L748 D749 R750 H751 R752 D753 C754 R755 I756 D757 A758 G759 G760 H761 E762 P763 V764 V765 A766 A767 A768 C769 N770 V771 A772 T773 A774 D775 F776 N777 R778 N779 D780 G781 R782 L783 L784 H785 N786 T787 Q788 A789 R790 A791
A792 D793 A794 A795 D796 D797 R798 P799 H800 R801 P802 A803 D804 W805 H809 K810 I811 Y812 Y813 Y814 V815 L816 V817 P818 A819 F820 S821 R822 G823 R824 T827 A828 G829 V830 R831 F832 D833 R834 V835 Y836 A837 T838 L839 Q840 N841 M842 Y843 V844 P845 E846 I847 A848 P849 G850 E851 E852 C853 P854
S855 D856 P857 V858 T859 D860 P861 A862 H863 P864 L865 H866 P867 V871 A872 N873 T874 V875 N876 A877 M878 F879 G882 R883 V884 V885 V886 D887 G888 P889 A890 M891 L892 T893 L894 Q895 V896 L897 A898 H899 N900 M901 A902 E903 R904 T905 T906 S911 A912 A913 P914 D915 A916 G917 A918 N919 T920
A921 S922 T923 R927 I928 F929 D930 L933 H934 A935 G936 V937 L938 L939 N940 H944 L945 D946 H947 T948 N951 G952 E953 Y954 F955 Y956 Y957 L958 P959 V960 H961 P974 N975 F976 R981 D982 H986 L989 L994 N997 Y998 F999 R1003 Q1008 H1009 A1010 R1011 E1012



• Molecule 1: Major capsid protein

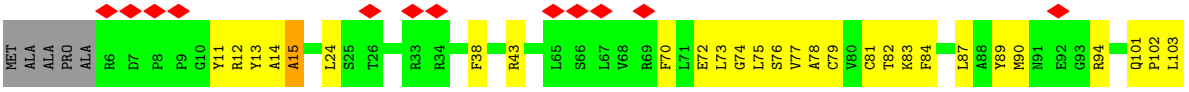
Chain F:

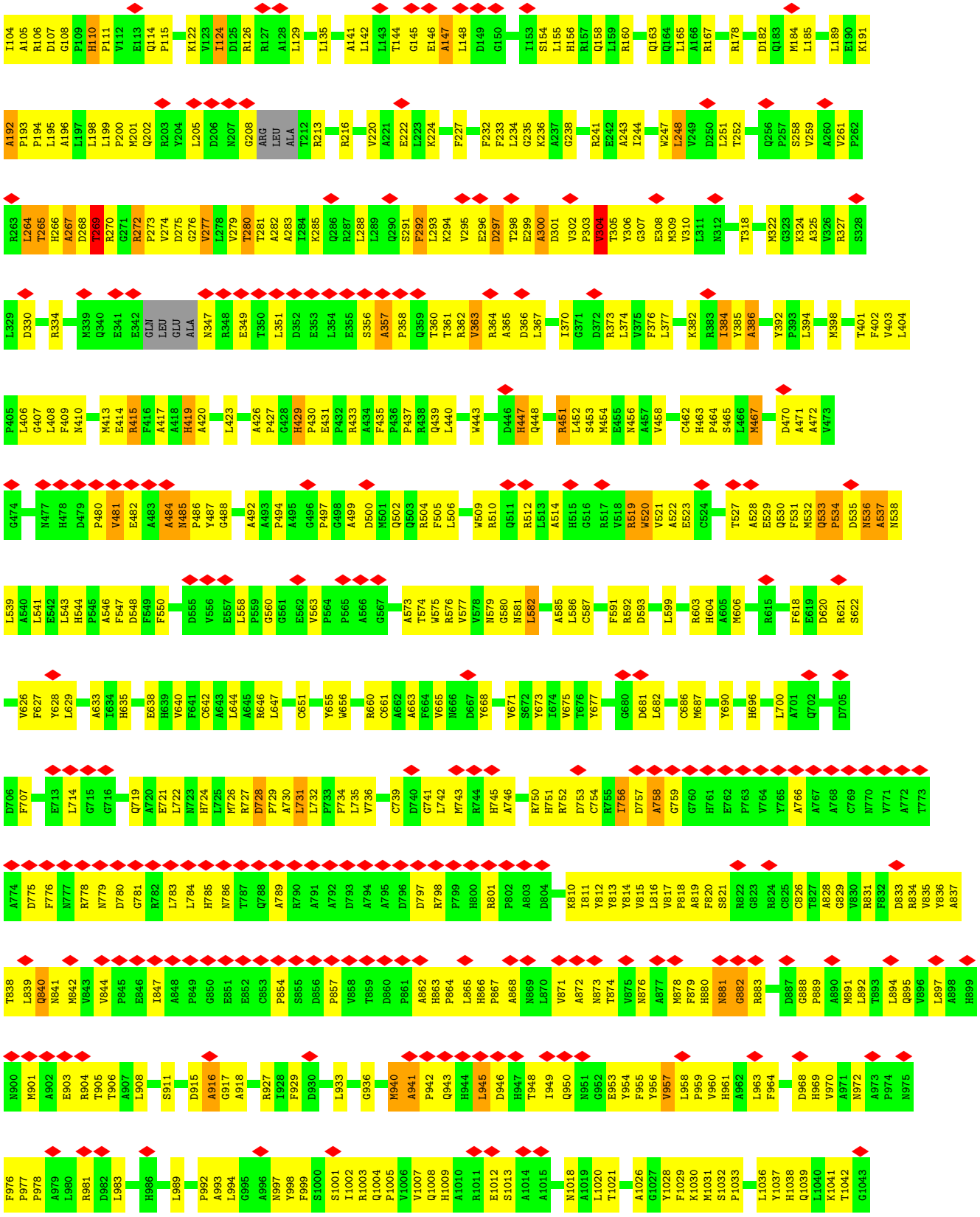


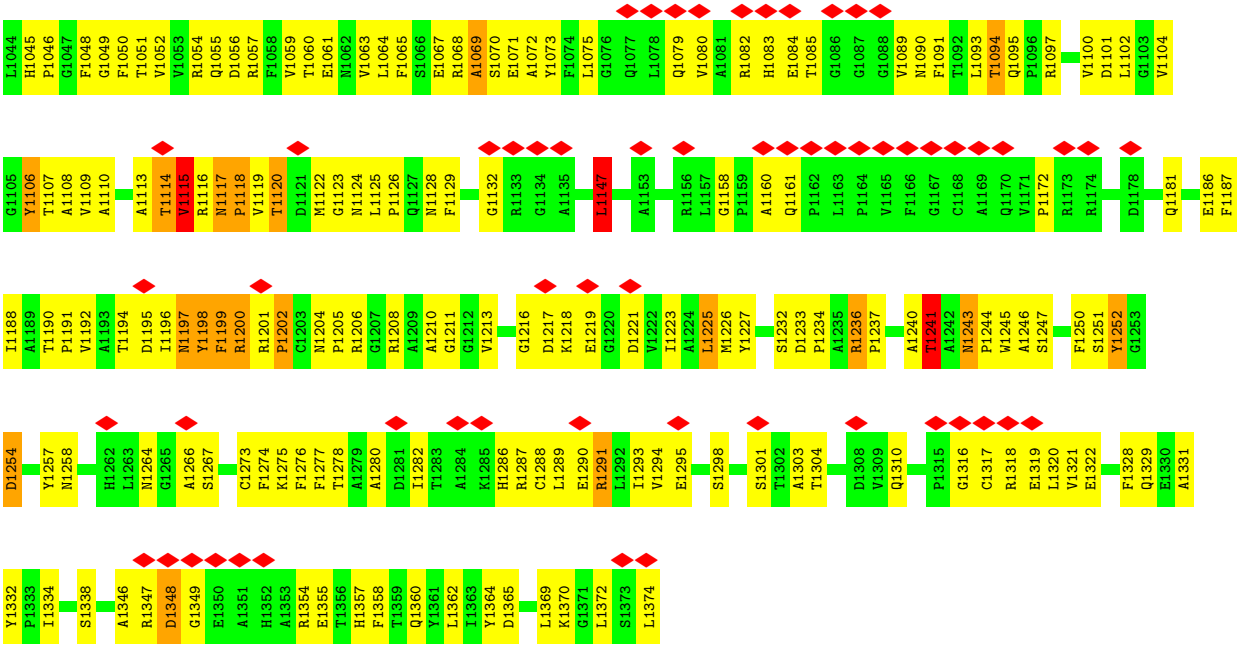


• Molecule 1: Major capsid protein

Chain H:

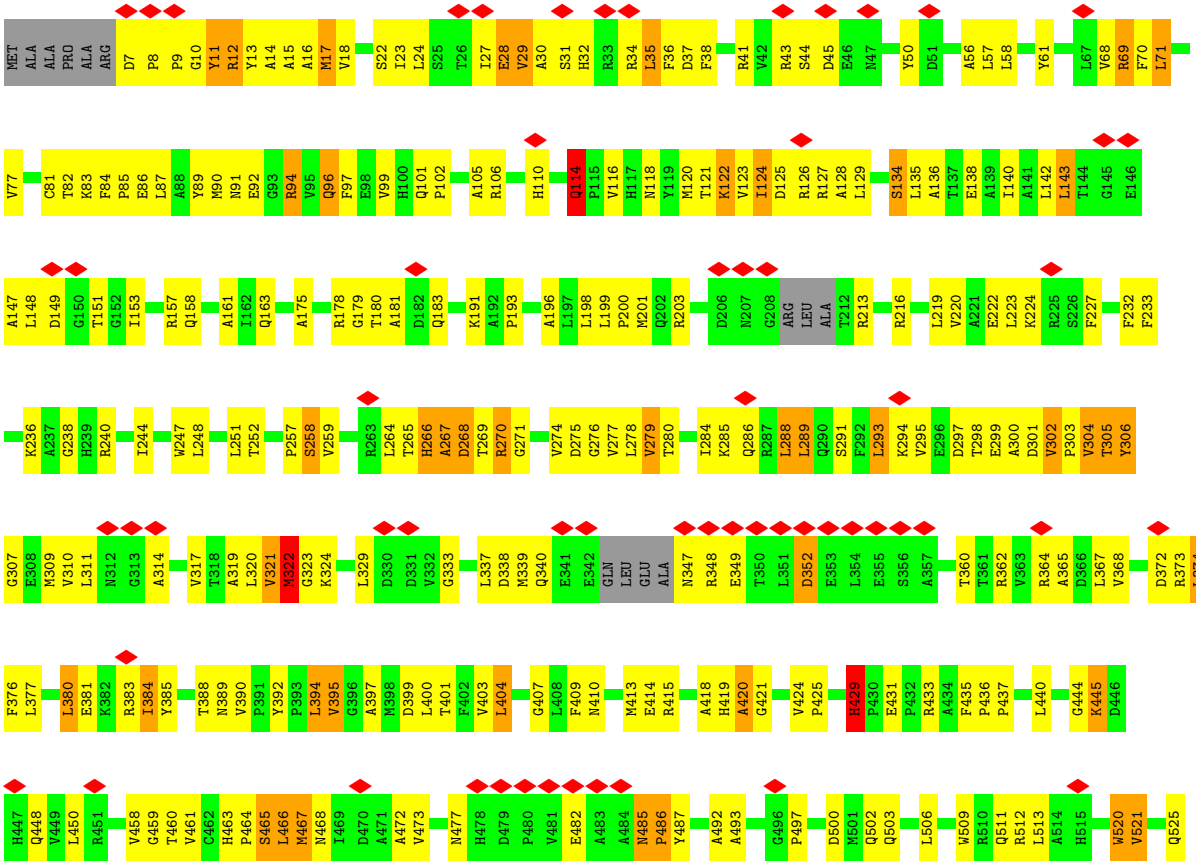


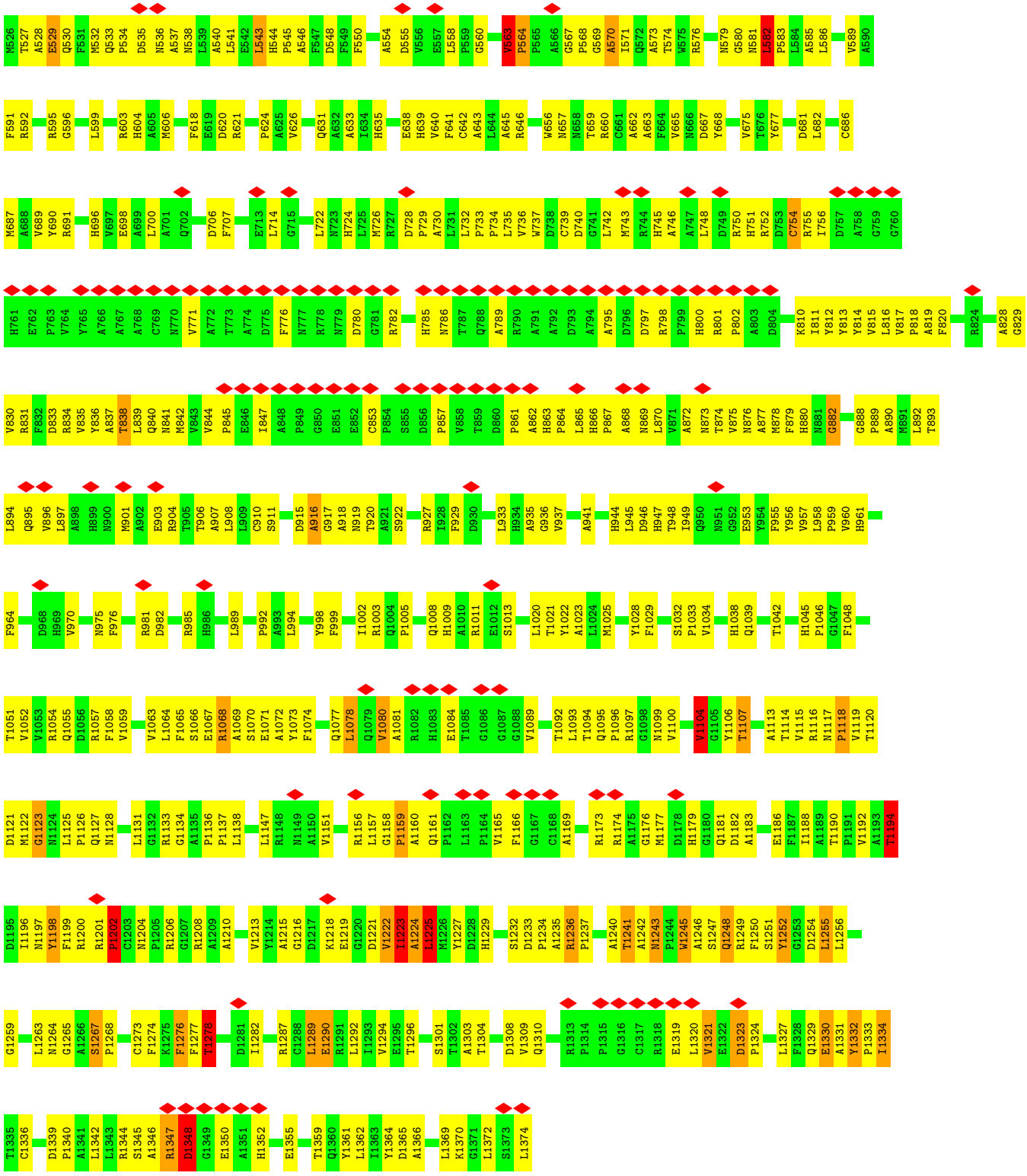

I104 A105 R106 D107 G108 P109 H110 P111 V112 E113 Q114 P115 K122 V123 I124 D125 R126 R127 A128 L129 L135 A141 L142 L143 T144 G145 E146 A147 L148 D149 G150 I153 S154 L155 H156 R157 Q158 L159 R160 Q163 Q164 L165 A166 R167 R178 D182 Q183 M184 L185 L189 E190 K191
A192 P193 P194 L195 A196 L197 L198 L199 P200 M201 Q202 R203 Y204 L205 D206 N207 G208 ARG LEU ALA T212 R213 R216 V220 A221 E222 L223 K224 F227 F232 F233 L234 G235 K236 A237 G238 R241 E242 A243 I244 W247 L248 V249 D250 L251 T252 Q256 P257 S258 V259 A260 V261 P262
R263 L264 T265 H266 A267 D268 T269 R270 G271 R272 P273 V274 D275 G276 V277 L278 V279 T280 T281 A282 A283 I284 K285 Q286 R287 L288 L289 Q290 S291 F292 L293 K294 V295 E296 D297 T298 E299 A300 D301 V302 P303 V304 T305 Y306 G307 E308 M309 V310 L311 N312 T318 M322 G323 K324 A325 V326 R327 S328
L329 D330 R334 M339 Q340 E341 E342 GLN LEU GLU ALA N347 R348 E349 T350 L351 D352 E353 L354 E355 S356 A357 P358 Q359 T360 T361 R362 V363 R364 A365 D366 L367 I370 G371 D372 R373 L374 V375 F376 L377 K382 R383 I384 Y385 A386 Y392 P393 L394 M398 T401 F402 V403 L404
P405 L406 G407 L408 F409 N410 M413 E414 R415 F416 A417 A418 H419 A420 L423 A426 P427 G428 H429 P430 E431 P432 R433 A434 F435 P436 P437 R438 Q439 L440 W443 D446 H447 Q448 R451 L452 S453 M454 E455 N456 A457 V458 C462 H463 P464 S465 L466 M467 D470 A471 A472 V473
G474 N477 H478 D479 P480 Y481 E482 A483 A484 N485 P486 Y487 G488 A492 A493 P494 A495 G496 P497 G498 A499 D500 M501 Q502 Q503 R504 F505 L506 W509 R510 Q511 R512 L513 A514 H515 G516 R517 V518 R519 W520 V521 A522 E523 C524 T527 A528 E529 Q530 F531 M532 Q533 P534 D535 N536 A537 N538
L539 A540 L541 E542 L543 H544 P545 A546 F547 D548 F549 F550 D555 V556 E557 L558 P559 G560 G561 E562 V563 P564 P565 A566 G567 A573 T574 W575 R576 V577 V578 N579 G580 N581 L582 A585 L586 C587 F591 R592 D593 L599 R603 H604 A605 M606 R615 F618 E619 D620 R621 S622
V626 F627 Y628 L629 A633 I634 H635 E638 H639 V640 F641 C642 A643 L644 A645 R646 L647 C651 Y655 W656 R660 C661 A662 A663 F664 V665 N666 D667 Y668 V671 S672 Y673 I674 V675 T676 Y677 G680 D681 L682 C686 M687 Y690 H696 L700 A701 Q702 D705
D706 F707 E713 L714 G715 G716 Q719 A720 E721 L722 N723 H724 L725 M726 R727 D728 P729 A730 L731 L732 P733 P734 L735 V736 C739 D740 G741 L742 M743 R744 H745 A746 R750 H751 R752 D753 C754 R755 I756 D757 A758 G759 G760 H761 E762 P763 V764 Y765 A766 A767 A768 C769 N770 V771 A772 T773
A774 D775 F776 N777 R778 N779 D780 G781 R782 L783 L784 H785 N786 T787 Q788 A789 R790 A791 A792 D793 A794 A795 D796 D797 R798 P799 H800 R801 P802 A803 D804 K810 I811 Y812 Y813 Y814 V815 L816 V817 P818 A819 F820 S821 R822 G823 R824 C825 C826 T827 A828 G829 V830 R831 F832 D833 R834 V835 Y836 A837
T838 L839 Q840 N841 M842 V843 V844 P845 E846 I847 A848 P849 G850 E851 E852 C853 P854 S855 D856 P857 V858 T859 D860 P861 A862 H863 P864 L865 H866 P867 A868 N869 L870 V871 A872 N873 T874 V875 N876 A877 M878 F879 H880 N881 G882 R883 D887 G888 P889 A890 M891 L892 T893 L894 Q895 V896 L897 A898 H899
N900 M901 A902 E903 R904 T905 T906 A907 L908 S911 D915 A916 G917 A918 R927 I928 F929 D930 L933 G936 M940 A941 P942 Q943 H944 L945 D946 H947 T948 I949 Q950 N951 G952 E953 Y954 F955 Y956 V957 L958 P959 V960 H961 A962 L963 F964 D968 H969 V970 A971 N972 A973 P974 N975
F976 P977 P978 A979 L980 R981 D982 L983 H986 L989 P992 A993 L994 G995 A996 N997 Y998 F999 S1000 S1001 I1002 R1003 Q1004 P1005 V1006 V1007 Q1008 H1009 A1010 R1011 E1012 S1013 A1014 A1015 N1018 A1019 L1020 T1021 A1026 G1027 Y1028 F1029 K1030 M1031 S1032 P1033 L1036 Y1037 H1038 Q1039 L1040 K1041 T1042 G1043



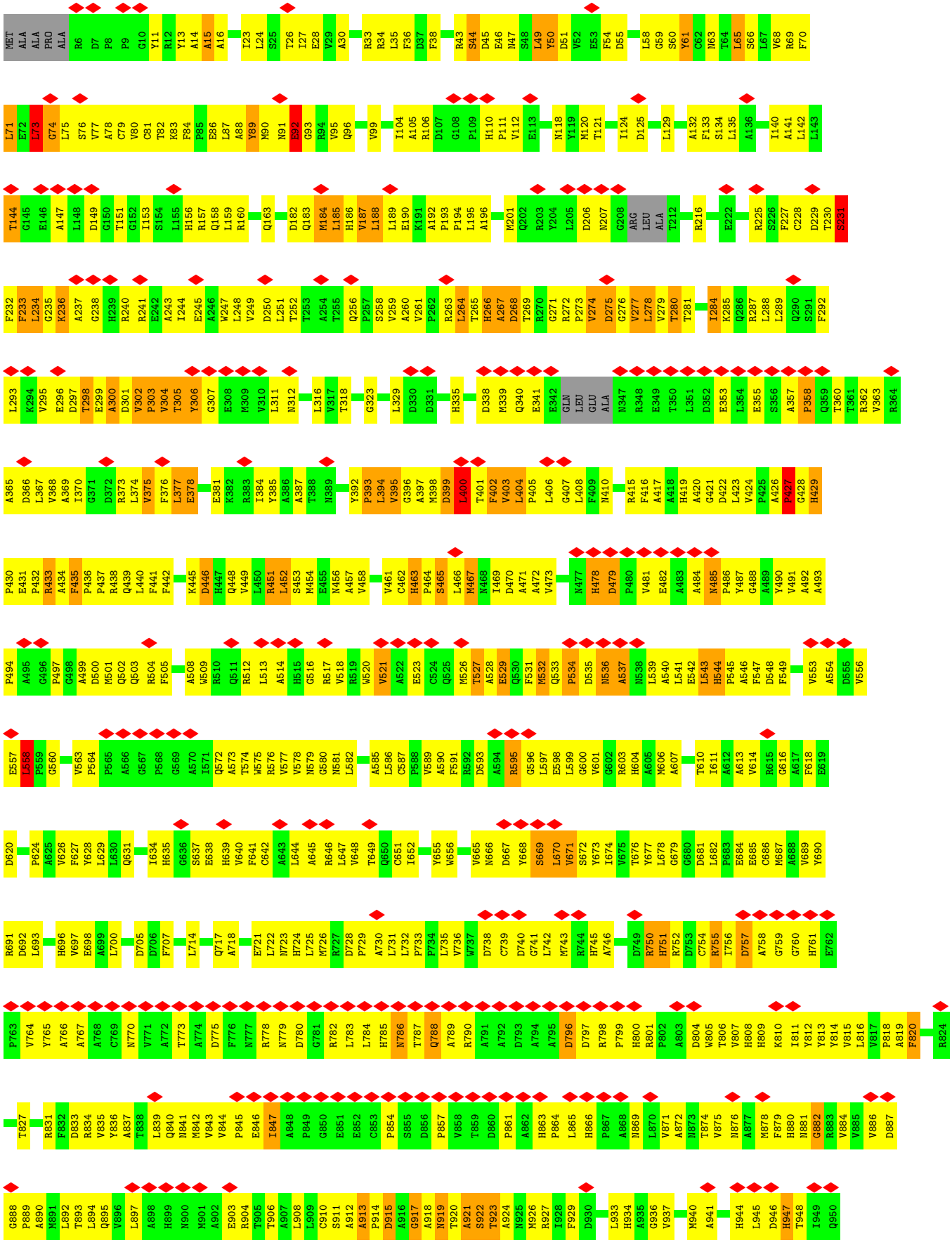
• Molecule 1: Major capsid protein

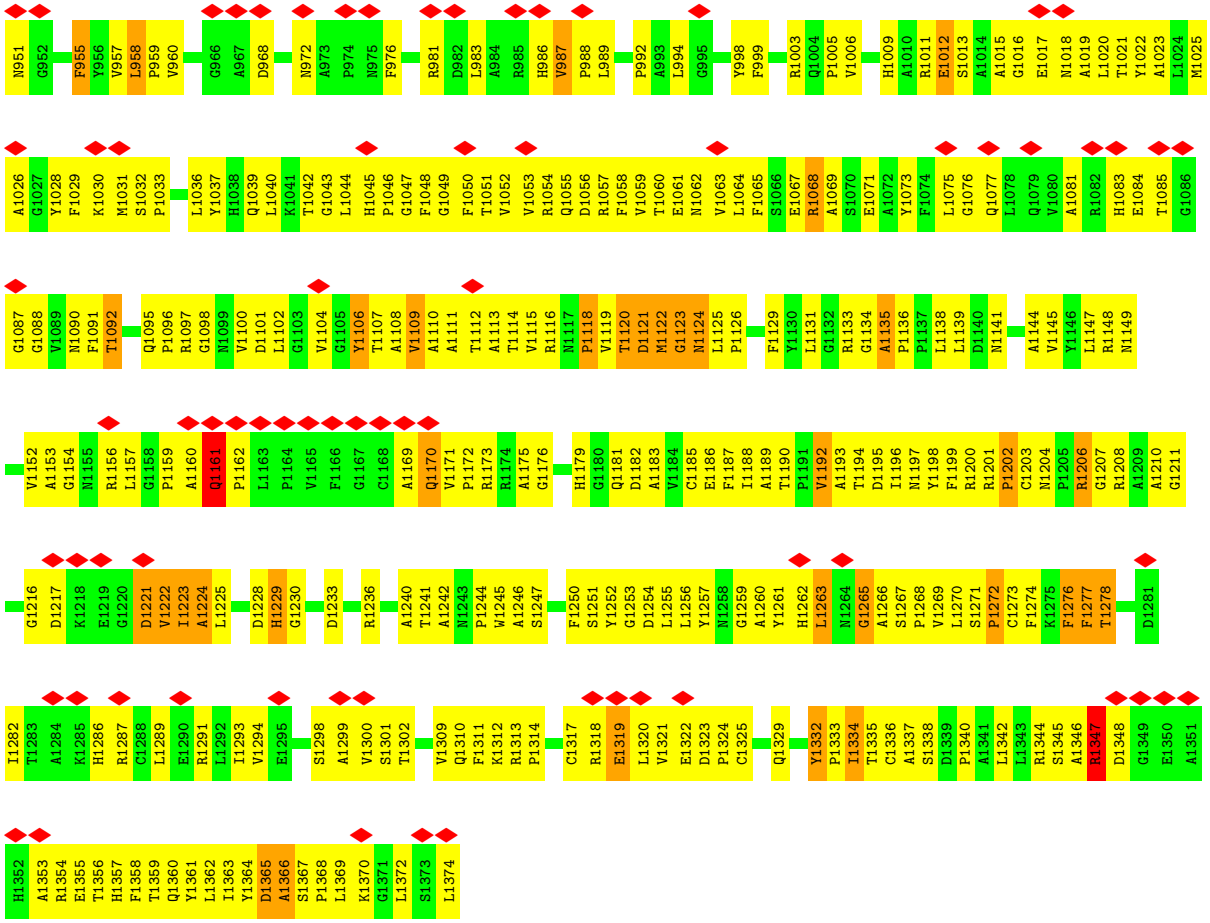
Chain I:





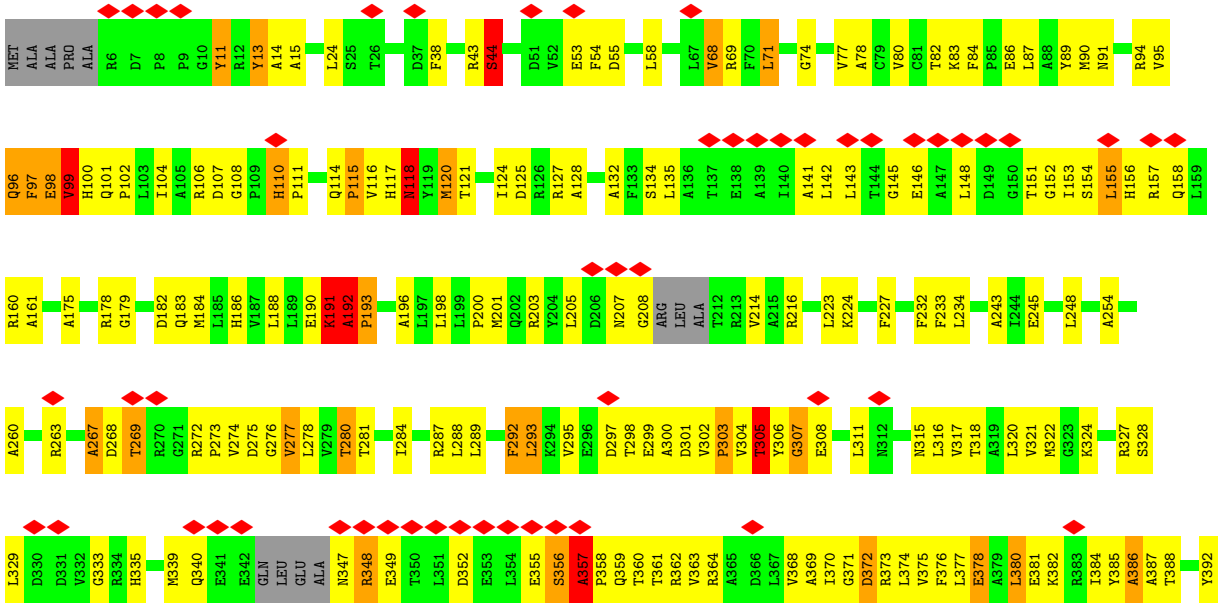
• Molecule 1: Major capsid protein

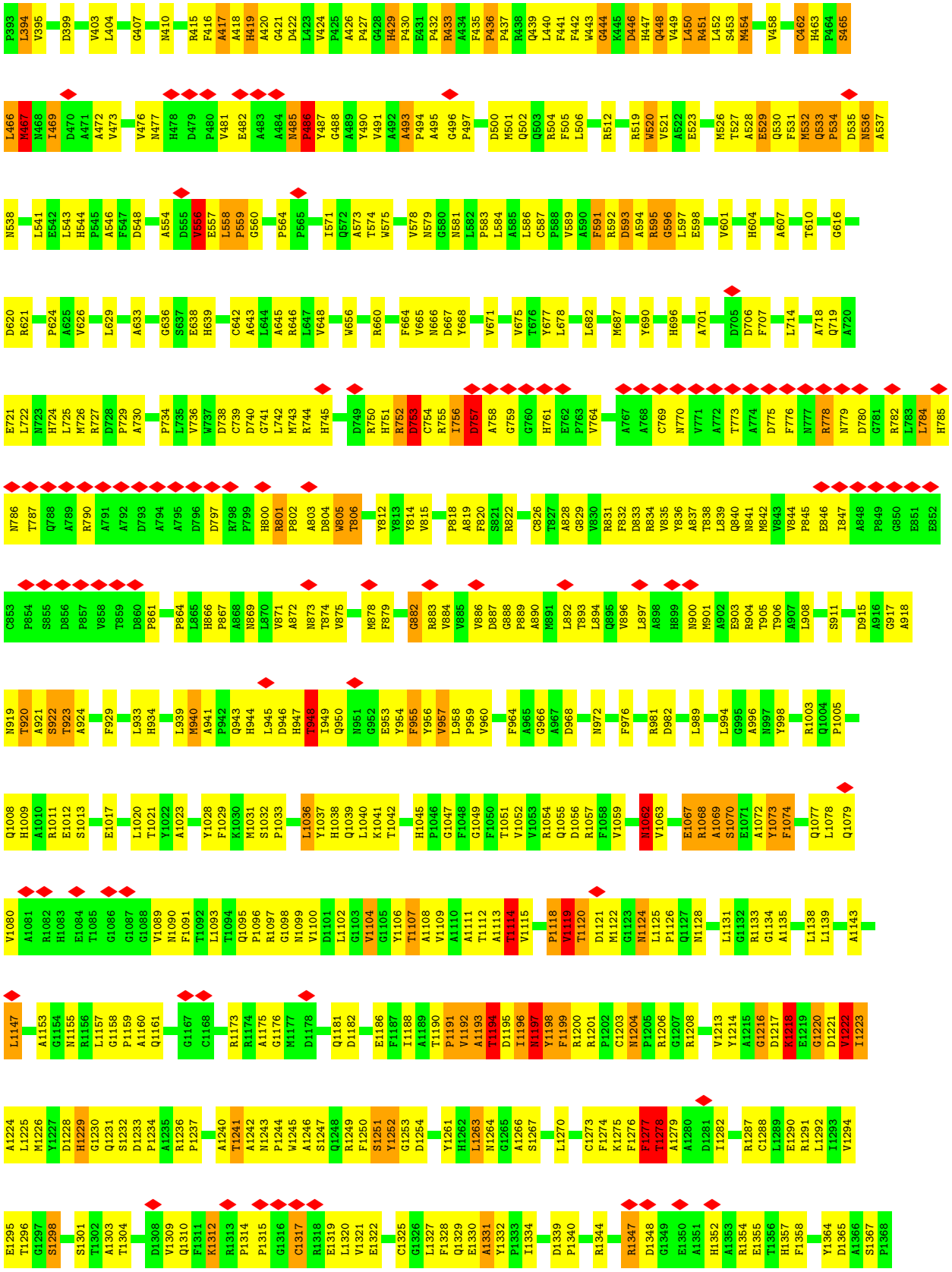

MET ALA ALA PRO ALA R6 D7 P8 P9 G10 Y11 R12 Y13 A14 A15 A16 I23 L24 S25 T26 I27 E28 V29 A30 R33 R34 L35 F36 D37 F38 R43 S44 D45 E46 N47 S48 L49 Y50 D51 V52 E53 F54 D55 L58 G59 S60 Y61 C62 N63 T64 L65 S66 L67 V68 R69 F70
L71 E72 L73 G74 L75 S76 V77 A78 C79 V80 C81 T82 K83 F84 P85 E86 L87 A88 Y89 M90 N91 E92 G93 R94 V95 Q96 V99 I104 A105 R106 D107 G108 P109 H110 P111 V112 E113 N118 Y119 M120 T121 I124 D125 L129 A132 F133 S134 L135 A136 I140 A141 L142 L143
T144 G145 E146 A147 L148 D149 G150 T151 G152 I153 S154 L155 H156 R157 Q158 L159 R160 Q163 D182 Q183 M184 L185 H186 V187 L188 L189 E190 K191 A192 P193 P194 L195 A196 M201 Q202 R203 Y204 L205 D206 N207 G208 ARG LEU ALA T212 R216 E222 R225 S226 F227 C228 D229 T230 S231
F232 F233 L234 G235 K236 A237 G238 H239 R240 R241 E242 A243 I244 E245 A246 W247 L248 V249 D250 L251 T252 T253 A254 T255 Q256 P257 S258 V259 A260 V261 P262 R263 L264 T265 H266 A267 D268 T269 R270 G271 R272 P273 V274 D275 G276 V277 L278 V279 T280 T281 I284 K285 Q286 R287 L288 L289 Q290 S291 F292
L293 K294 V295 E296 D297 T298 E299 A300 D301 V302 P303 V304 T305 Y306 G307 E308 M309 V310 L311 N312 L316 V317 T318 G323 L329 D330 D331 H335 D338 M339 Q340 E341 E342 GLN LEU GLU ALA N347 R348 E349 T350 L351 D352 E353 L354 E355 S356 A357 P358 Q359 T360 T361 R362 V363 R364
A365 D366 L367 V368 A369 I370 G371 D372 R373 L374 V375 F376 L377 E378 E381 K382 R383 I384 Y385 A386 A387 T388 N389 Y392 P393 L394 V395 G396 A397 M398 D399 L400 T401 F402 V403 L404 P405 L406 G407 L408 F409 N410 R415 F416 A417 A418 H419 A420 G421 D422 L423 V424 P425 A426 P427 G428 H429
P430 E431 P432 R433 A434 F435 P436 P437 R438 L440 F441 F442 K445 D446 H447 Q448 V449 L450 R451 L452 S453 M454 E455 N456 A457 V458 V461 C462 H463 P464 S465 L466 M467 N468 I469 D470 A471 A472 V473 N477 H478 D479 P480 V481 E482 A483 A484 N485 P486 Y487 G488 A489 Y490 V491 A492 A493
P494 A495 G496 P497 G498 A499 D500 M501 Q502 Q503 R504 F505 A508 W509 R510 Q511 R512 L513 A514 H515 G516 R517 V518 R519 W520 V521 A522 E523 C524 Q525 M526 T527 A528 E529 Q530 F531 M532 Q533 P534 D535 N536 A537 N538 L539 A540 L541 E542 L543 H544 P545 A546 F547 D548 F549 V553 A554 D555 V556
E557 L558 P559 G560 V563 P564 P565 A566 G567 P568 G569 A570 I571 Q572 A573 T574 W575 R576 V577 V578 N579 G580 N581 L582 A585 L586 C587 P588 V589 A590 F591 R592 D593 A594 R595 G596 L597 E598 L599 G600 V601 G602 R603 H604 A605 M606 A607 T610 I611 A612 A613 V614 R615 G616 A617 F618 E619
D620 P624 A625 V626 F627 Y628 L629 L630 Q631 I634 H635 G636 S637 E638 H639 V640 F641 C642 A643 L644 A645 R646 L647 V648 T649 Q650 C651 I652 Y655 W656 V665 N666 D667 Y668 S669 L670 V671 S672 Y673 I674 V675 T676 Y677 L678 G679 G680 D681 L682 P683 E684 E685 C686 M687 A688 V689 Y690
R691 D692 L693 H696 V697 E698 A699 L700 D705 D706 F707 L714 Q717 A718 E721 L722 N723 H724 L725 M726 R727 D728 P729 A730 L731 L732 P733 P734 L735 V736 W737 D738 C739 D740 G741 L742 M743 R744 H745 A746 D749 R750 H751 R752 D753 C754 R755 I756 D757 A758 G759 G760 H761 E762
P763 V764 Y765 A766 A767 A768 C769 N770 V771 A772 T773 A774 D775 F776 N777 R778 N779 D780 G781 R782 L783 L784 H785 N786 T787 Q788 A789 R790 A791 A792 D793 A794 A795 D796 D797 R798 P799 H800 R801 P802 A803 D804 W805 T806 V807 H808 H809 K810 I811 Y812 Y813 Y814 V815 L816 V817 P818 A819 F820 R824
T827 R831 F832 D833 R834 V835 Y836 A837 T838 L839 Q840 N841 M842 V843 V844 P845 E846 I847 A848 P849 G850 E851 E852 C853 P854 S855 D856 P857 V858 T859 D860 P861 A862 H863 P864 L865 H866 P867 A868 N869 L870 V871 A872 N873 T874 V875 N876 A877 M878 F879 H880 N881 G882 R883 V884 V885 V886 D887
G888 P889 A890 M891 L892 T893 L894 Q895 V896 L897 A898 H899 N900 M901 A902 E903 R904 T905 T906 A907 L908 L909 C910 S911 A912 A913 P914 D915 A916 G917 A918 N919 T920 A921 S922 T923 A924 N925 M926 R927 I928 F929 D930 L933 H934 A935 G936 V937 M940 A941 H944 L945 D946 H947 T948 I949 Q950

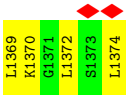


• Molecule 1: Major capsid protein

Chain K:

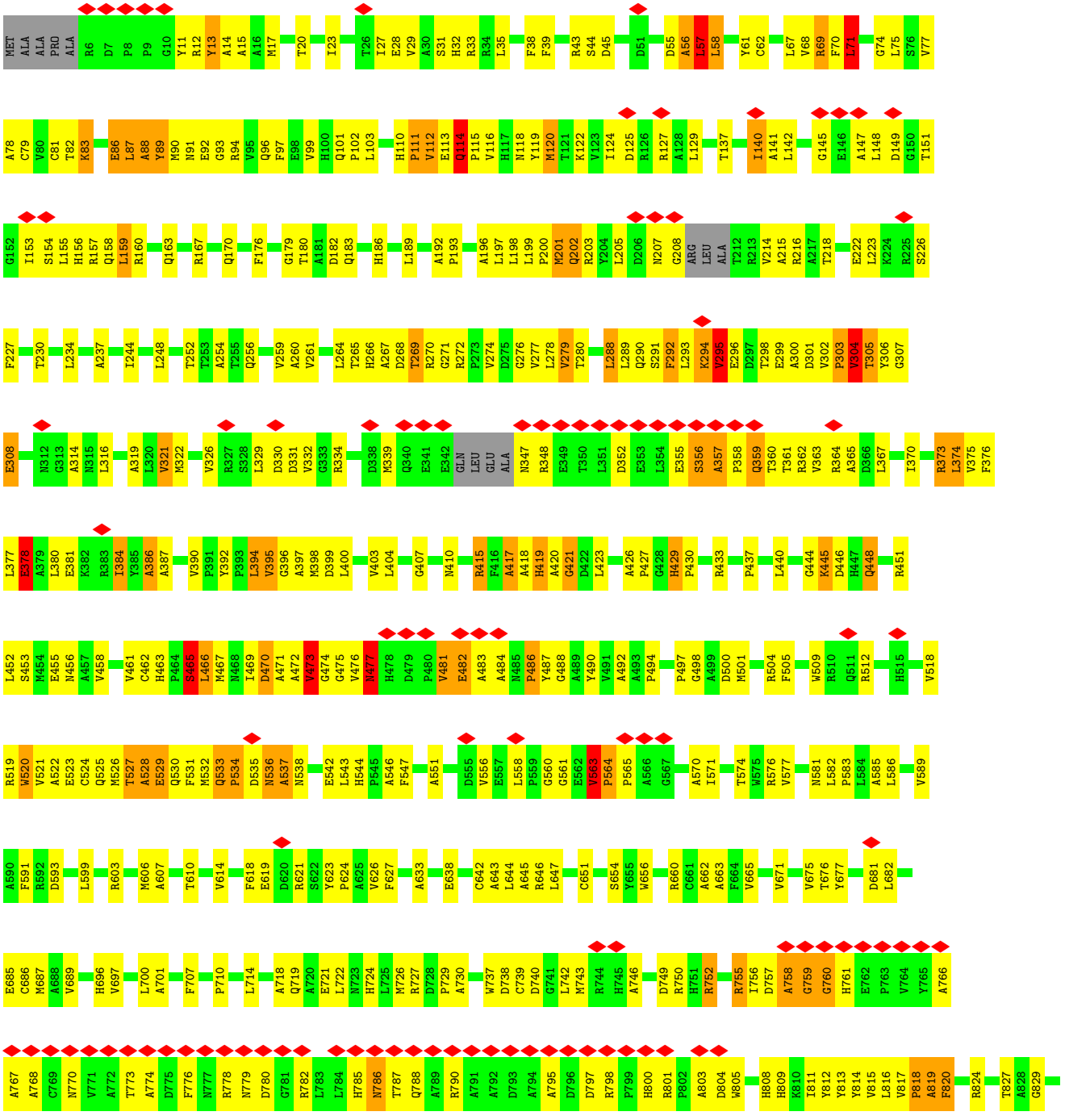


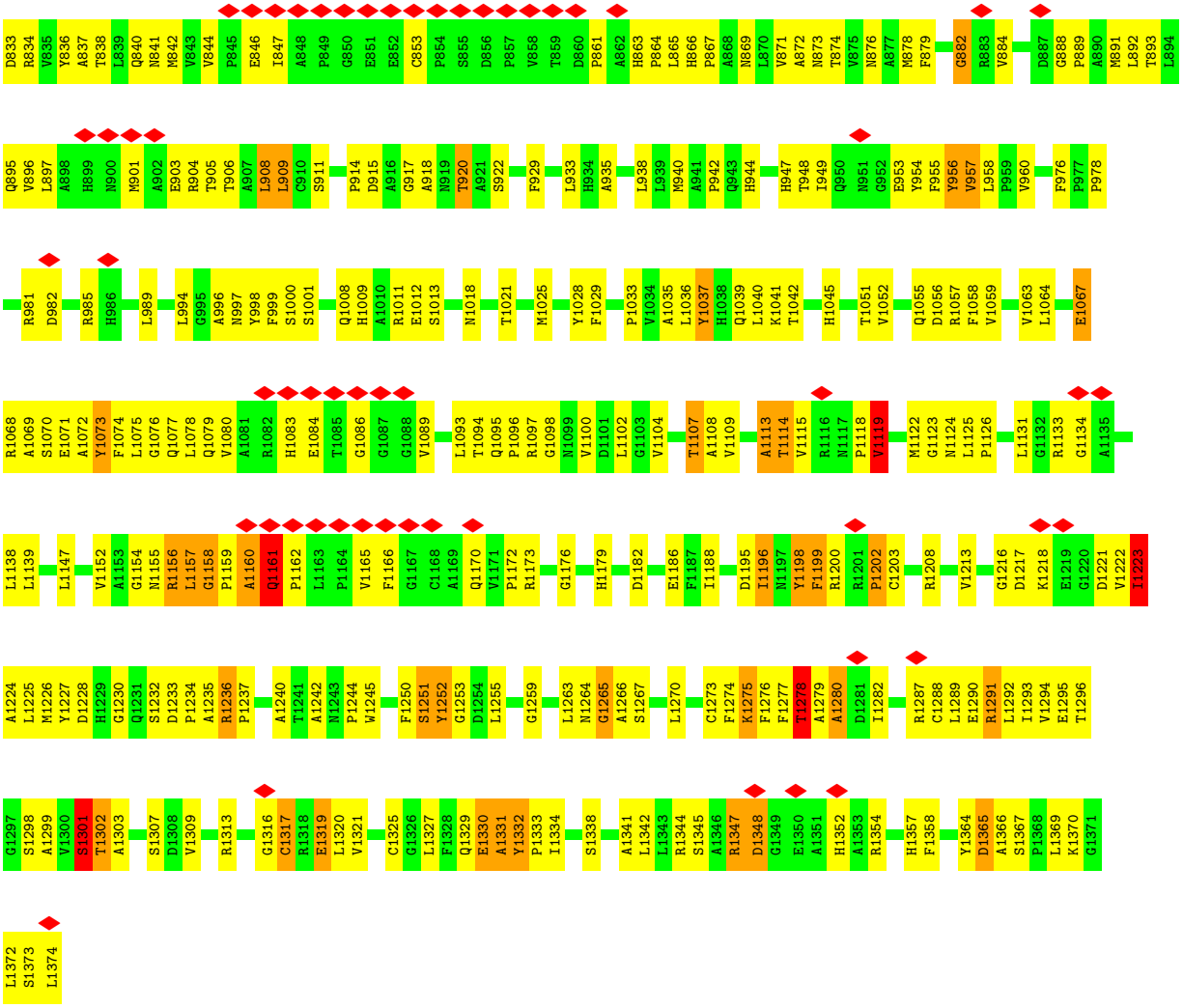

P393 L394 V395 D399 V403 L404 G407 N410 R415 F416 A417 A418 H419 A420 G421 D422 L423 V424 P425 A426 P427 G428 H429 P430 E431 P432 R433 A434 F435 P436 P437 R438 Q439 L440 F441 F442 W443 G444 K445 D446 H447 Q448 V449 L450 R451 L452 S453 M454 V458 C462 H463 P464 S465
L466 M467 N468 I469 D470 A471 A472 V473 V476 N477 H478 D479 P480 V481 E482 A483 A484 N485 P486 Y487 G488 A489 Y490 V491 A492 A493 P494 A495 G496 P497 D500 M501 Q502 Q503 R504 F505 L506 R512 R519 W520 V521 A522 E523 M526 T527 A528 E529 Q530 F531 M532 Q533 P534 D535 N536 A537
N538 L541 E542 L543 H544 P545 A546 F547 D548 A554 D555 V556 E557 L558 P559 G560 P564 P565 I571 Q572 A573 T574 W575 V578 N579 G580 N581 L582 P583 L584 A585 L586 C587 P588 V589 A590 F591 R592 D593 A594 R595 G596 L597 E598 V601 H604 A607 T610 G616
D620 R621 P624 A625 V626 L629 A633 G636 S637 E638 H639 C642 A643 L644 A645 R646 L647 V648 W656 R660 F664 V665 N666 D667 Y668 V671 V675 T676 Y677 L678 L682 M687 Y690 H696 A701 D705 D706 F707 L714 A718 Q719 A720
E721 L722 N723 H724 L725 M726 R727 D728 P729 A730 P734 L735 V736 W737 D738 C739 D740 G741 L742 M743 R744 H745 D749 R750 H751 R752 D753 C754 R755 I756 D757 A758 G759 G760 H761 E762 P763 V764 A767 A768 C769 N770 V771 A772 T773 A774 D775 F776 N777 R778 N779 D780 G781 R782 L783 L784 H785
N786 T787 Q788 A789 R790 A791 A792 D793 A794 A795 D796 D797 R798 P799 H800 R801 P802 A803 D804 W805 T806 Y812 Y813 Y814 V815 P818 A819 F820 S821 R822 C826 T827 A828 G829 V830 R831 F832 D833 R834 V835 Y836 A837 T838 L839 Q840 N841 M842 V843 V844 P845 E846 I847 A848 P849 G850 E851 E852
C853 P854 S855 D856 P857 V858 T859 D860 P861 P864 L865 H866 P867 A868 N869 L870 V871 A872 N873 T874 V875 M878 F879 G882 R883 V884 V885 V886 D887 G888 P889 A890 M891 L892 T893 L894 Q895 V896 L897 A898 H899 N900 M901 A902 E903 R904 T905 T906 A907 L908 S911 D915 A916 G917 A918
N919 T920 A921 S922 T923 A924 F929 L933 H934 L939 M940 A941 P942 Q943 H944 L945 D946 H947 T948 I949 Q950 N951 G952 E953 Y954 F955 Y956 V957 L958 P959 V960 F964 A965 G966 A967 D968 N972 F976 R981 D982 L989 L994 G995 A996 N997 Y998 R1003 Q1004 P1005
Q1008 H1009 A1010 R1011 E1012 S1013 E1017 L1020 T1021 Y1022 A1023 Y1028 F1029 K1030 M1031 S1032 P1033 L1036 Y1037 H1038 Q1039 L1040 K1041 T1042 H1045 P1046 G1047 F1048 G1049 F1050 T1051 V1052 V1053 R1054 Q1055 D1056 R1057 F1058 V1059 N1062 V1063 E1067 R1068 A1069 S1070 E1071 A1072 Y1073 F1074 Q1077 L1078 Q1079
V1080 A1081 R1082 H1083 E1084 T1085 G1086 G1087 G1088 V1089 N1090 F1091 T1092 L1093 T1094 Q1095 P1096 R1097 G1098 N1099 V1100 D1101 L1102 G1103 V1104 G1105 Y1106 T1107 A1108 V1109 A1110 A1111 T1112 A1113 T1114 V1115 P1118 V1119 T1120 D1121 M1122 G1123 N1124 L1125 P1126 Q1127 N1128 L1131 G1132 R1133 G1134 A1135 L1138 L1139 A1143
L1147 A1153 G1154 N1155 R1156 L1157 G1158 P1159 A1160 Q1161 G1167 C1168 R1173 R1174 A1175 G1176 M1177 D1178 Q1181 D1182 E1186 F1187 I1188 A1189 T1190 P1191 V1192 A1193 T1194 D1195 I1196 N1197 Y1198 F1199 R1200 R1201 P1202 C1203 N1204 P1205 R1206 G1207 R1208 V1213 Y1214 A1215 G1216 D1217 K1218 E1219 G1220 D1221 V1222 I1223
A1224 L1225 M1226 Y1227 D1228 H1229 G1230 Q1231 S1232 D1233 P1234 A1235 R1236 P1237 A1240 T1241 A1242 N1243 P1244 W1245 A1246 S1247 Q1248 R1249 F1250 S1251 Y1252 G1253 D1254 Y1261 H1262 L1263 N1264 G1265 A1266 S1267 L1270 C1273 F1274 K1275 F1276 F1277 T1278 A1279 A1280 D1281 I1282 R1287 C1288 L1289 E1290 R1291 L1292 I1293 V1294
E1295 T1296 G1297 S1298 S1301 T1302 A1303 T1304 D1308 V1309 Q1310 F1311 K1312 R1313 P1314 P1315 G1316 C1317 R1318 E1319 L1320 V1321 E1322 C1325 G1326 L1327 F1328 Q1329 E1330 A1331 Y1332 P1333 I1334 D1339 P1340 R1344 R1347 D1348 G1349 E1350 A1351 H1352 A1353 R1354 E1355 T1356 H1357 F1358 Y1364 D1365 A1366 S1367 P1368



• Molecule 1: Major capsid protein

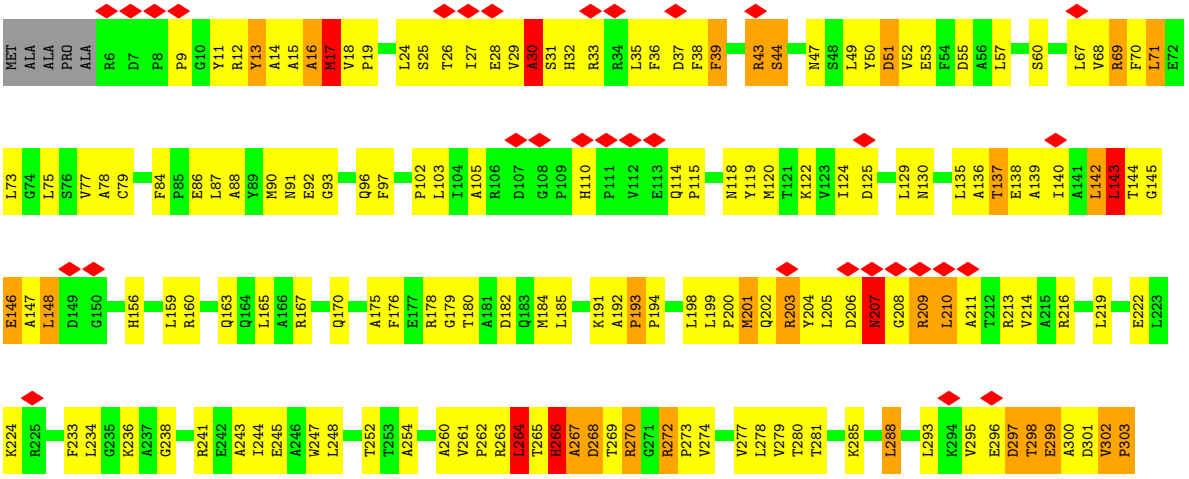
Chain L:

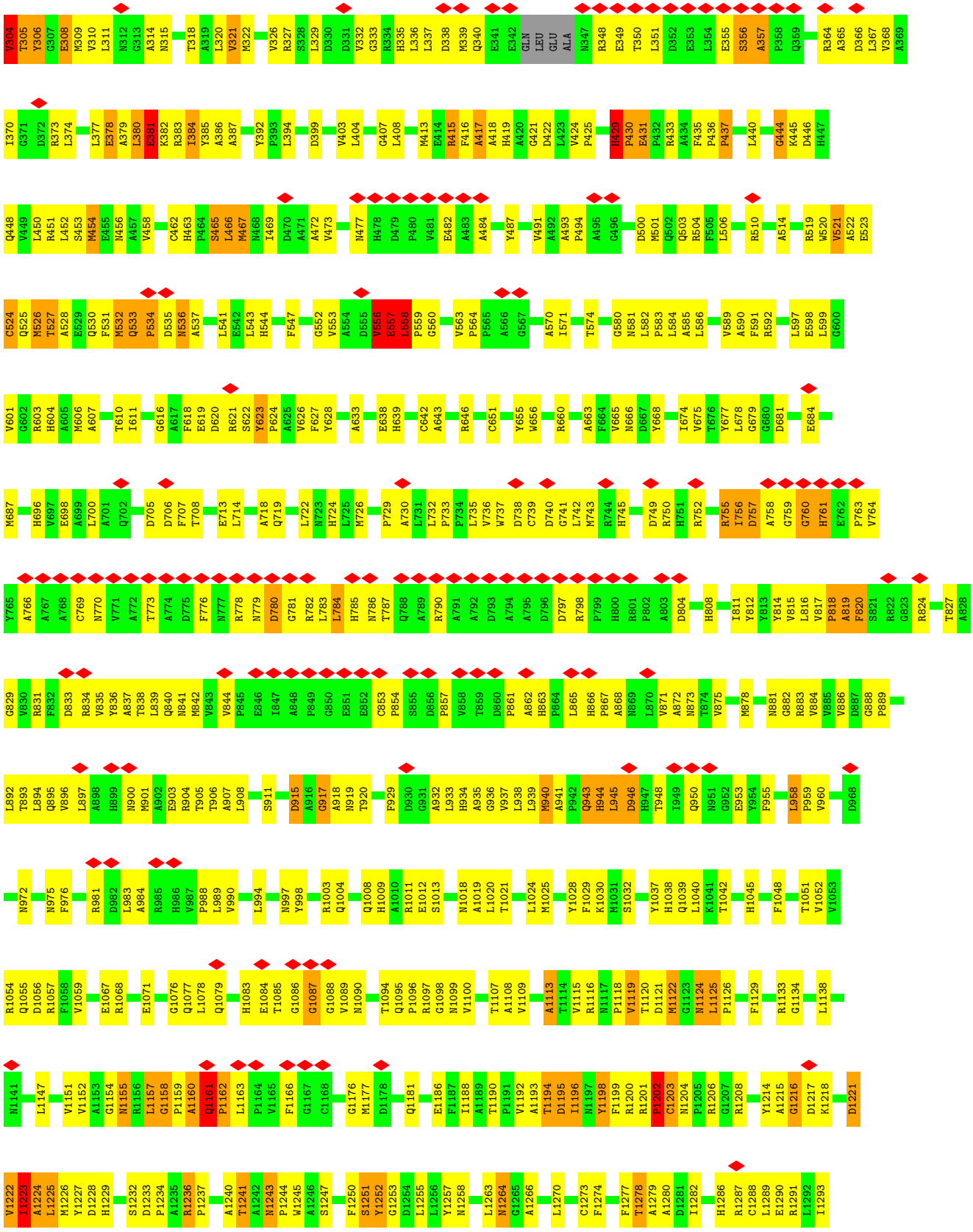


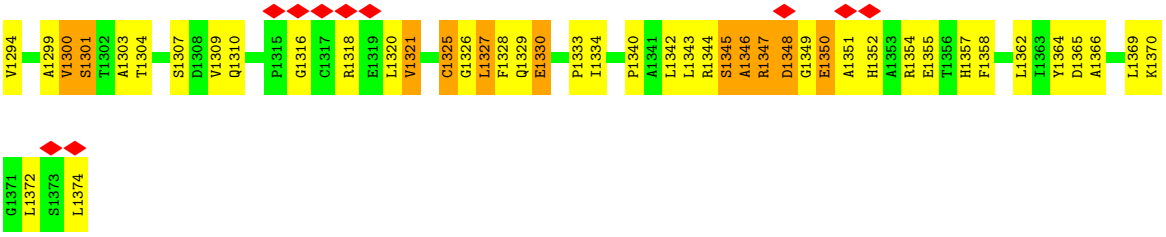


• Molecule 1: Major capsid protein

Chain M:

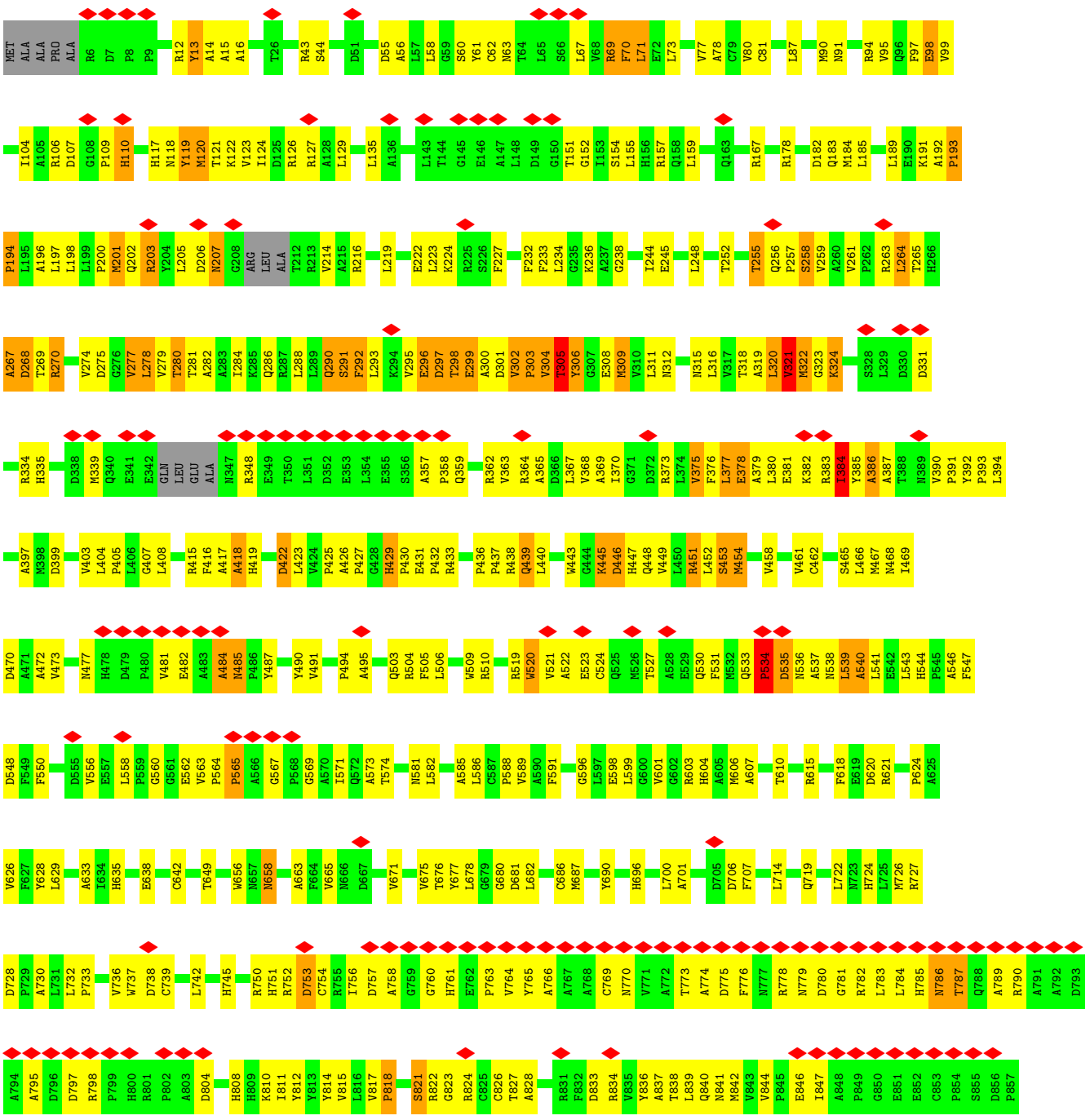


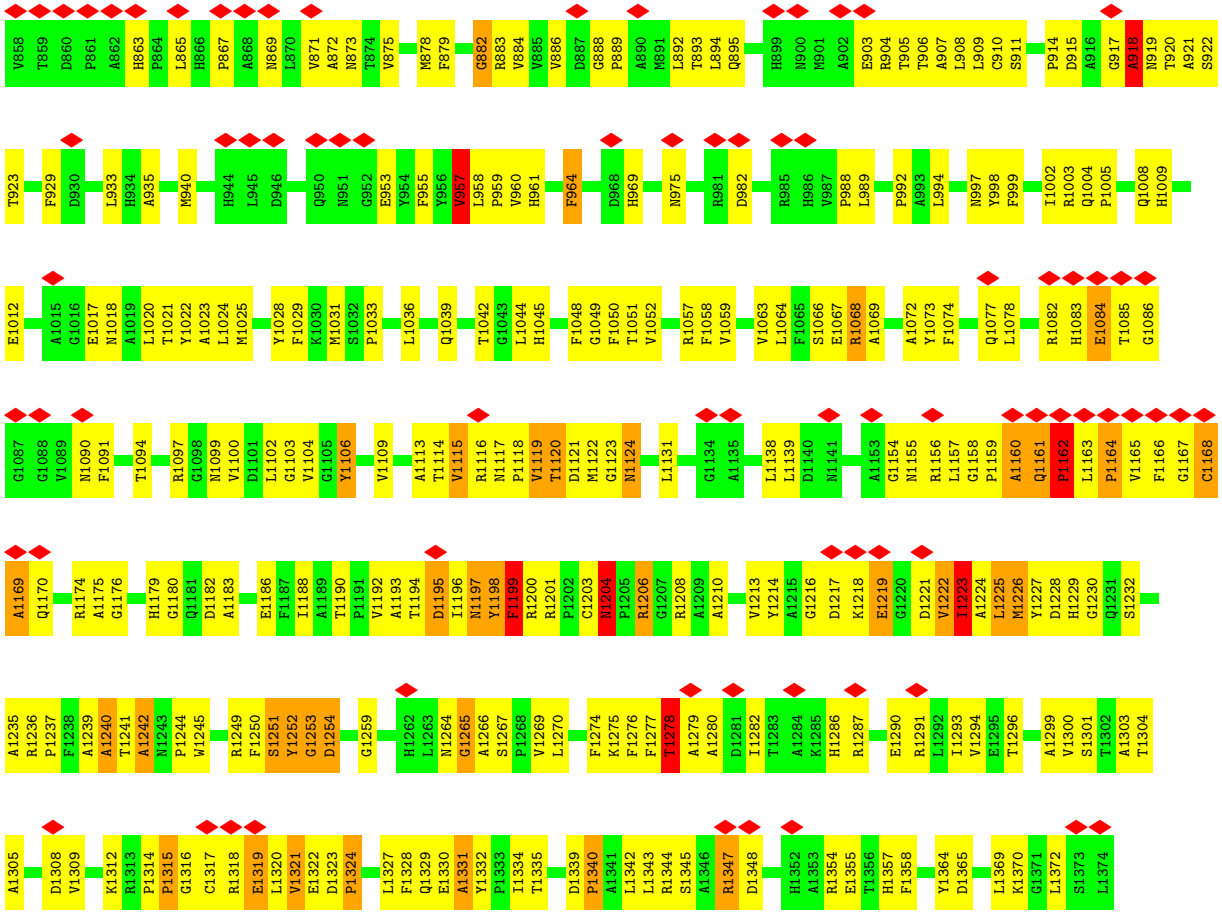




• Molecule 1: Major capsid protein

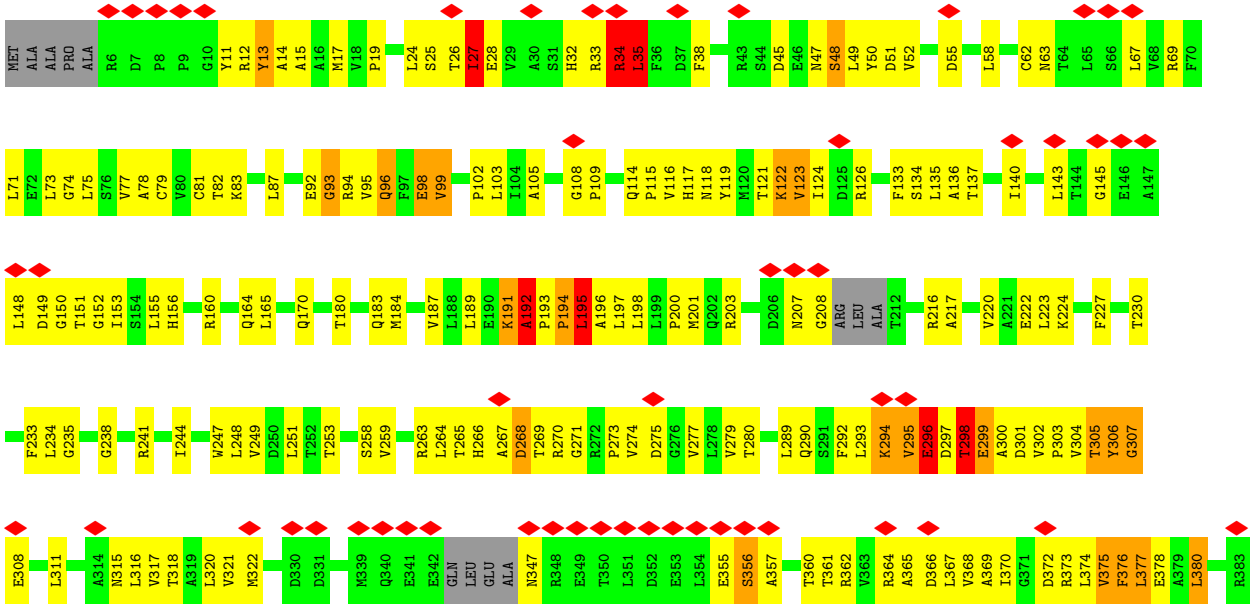
Chain N:

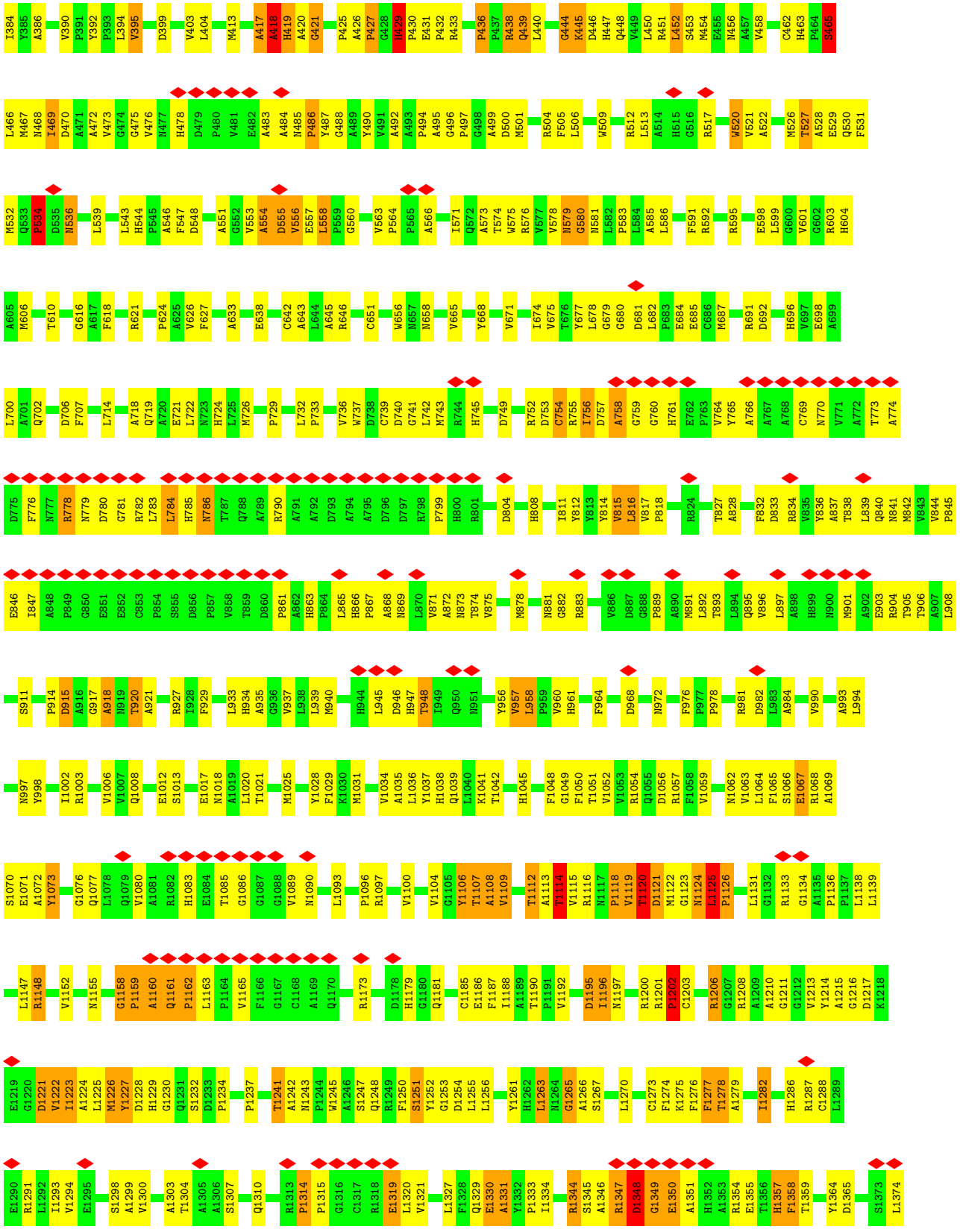




• Molecule 1: Major capsid protein

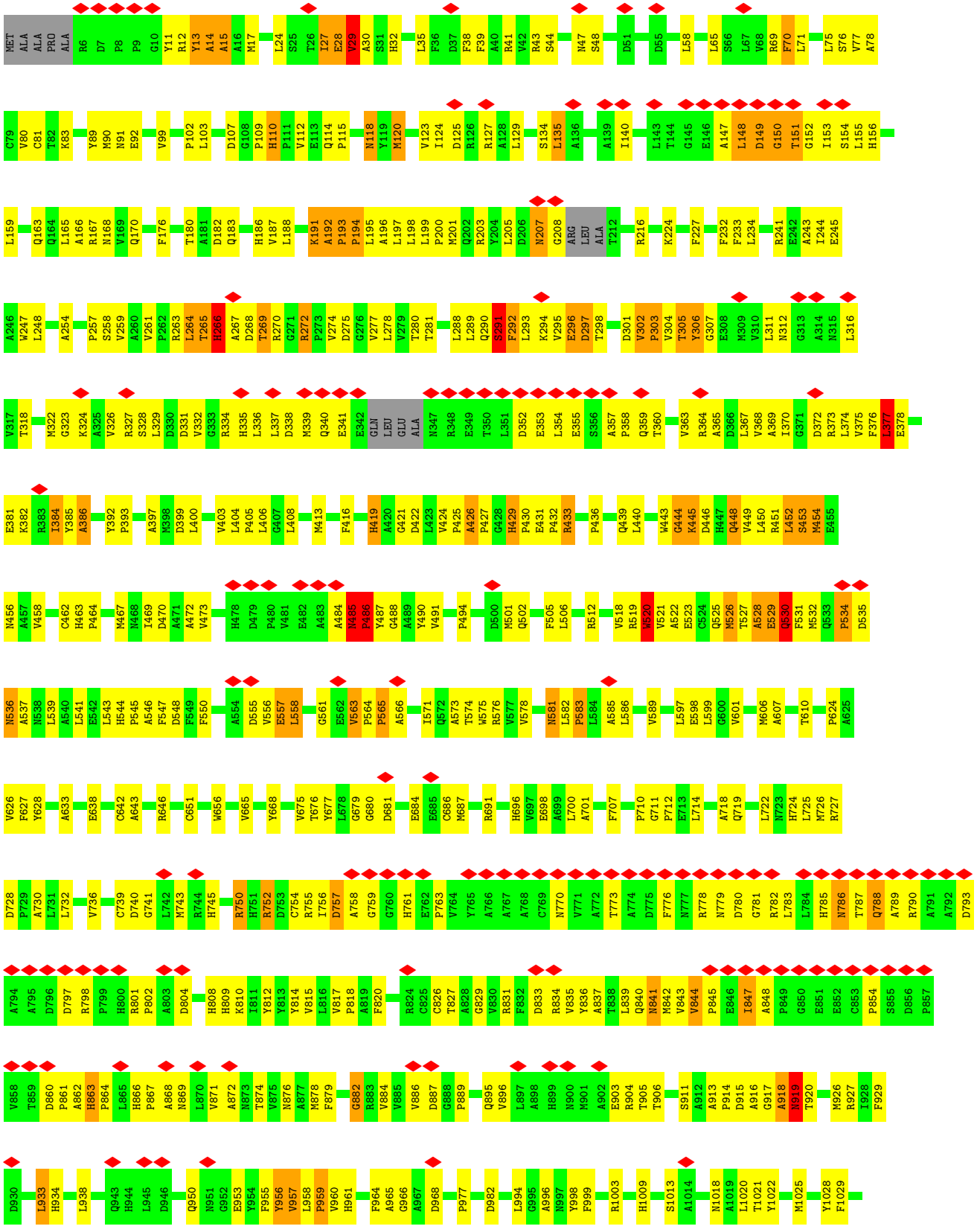
Chain O:

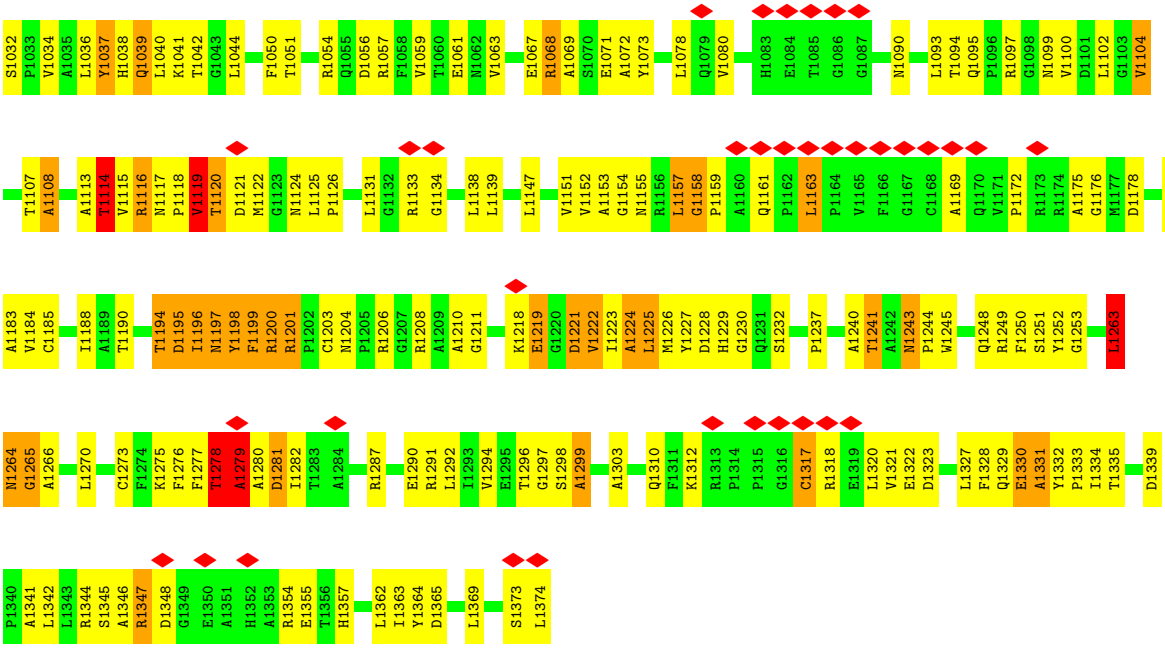




• Molecule 1: Major capsid protein

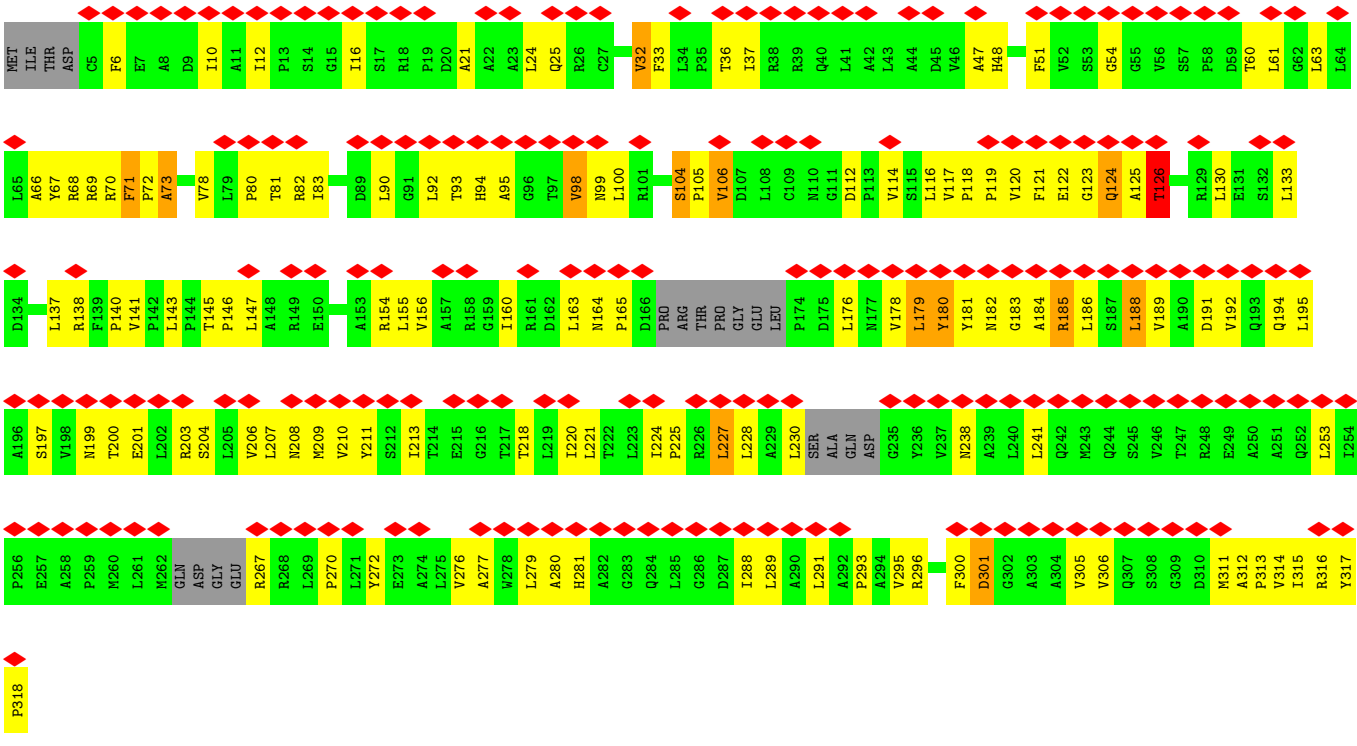
Chain P:





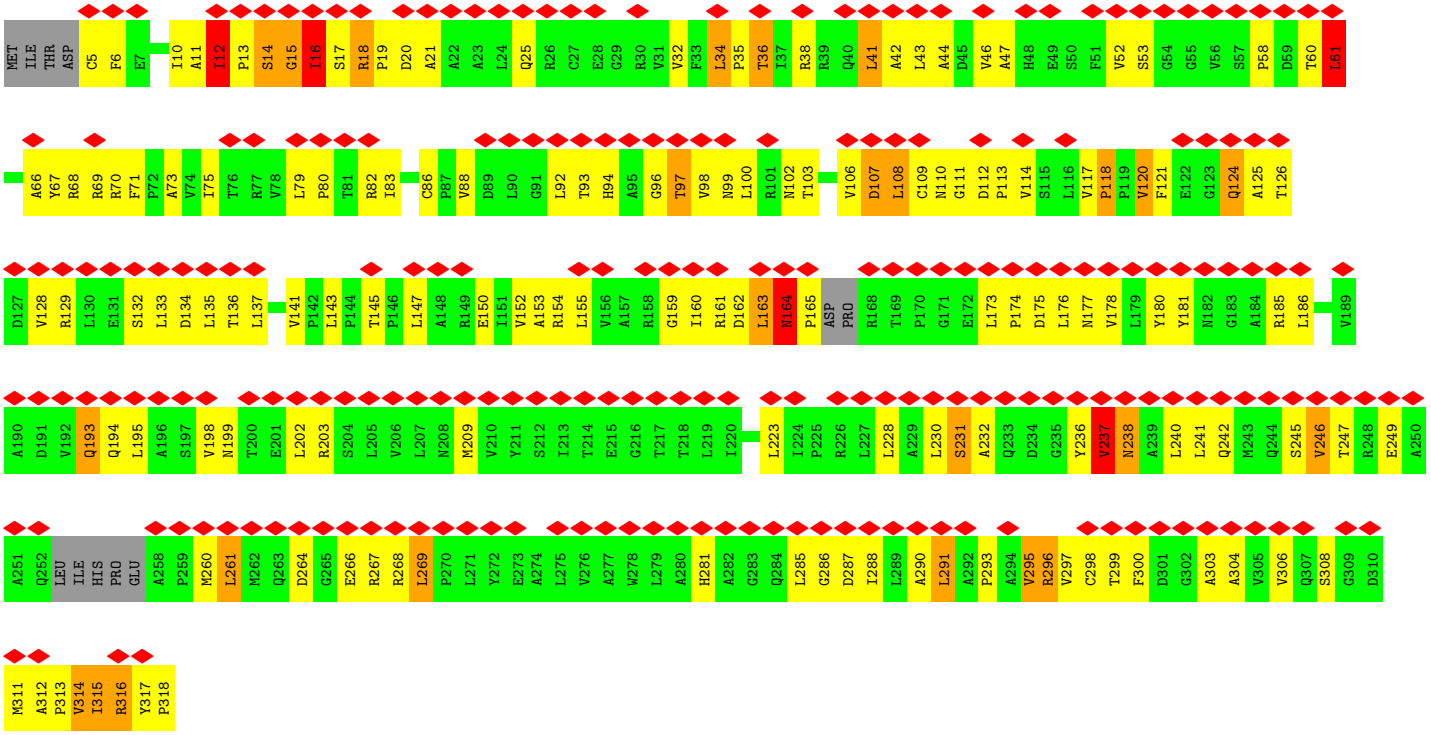
• Molecule 2: Triplex capsid protein 2

Chain Q:

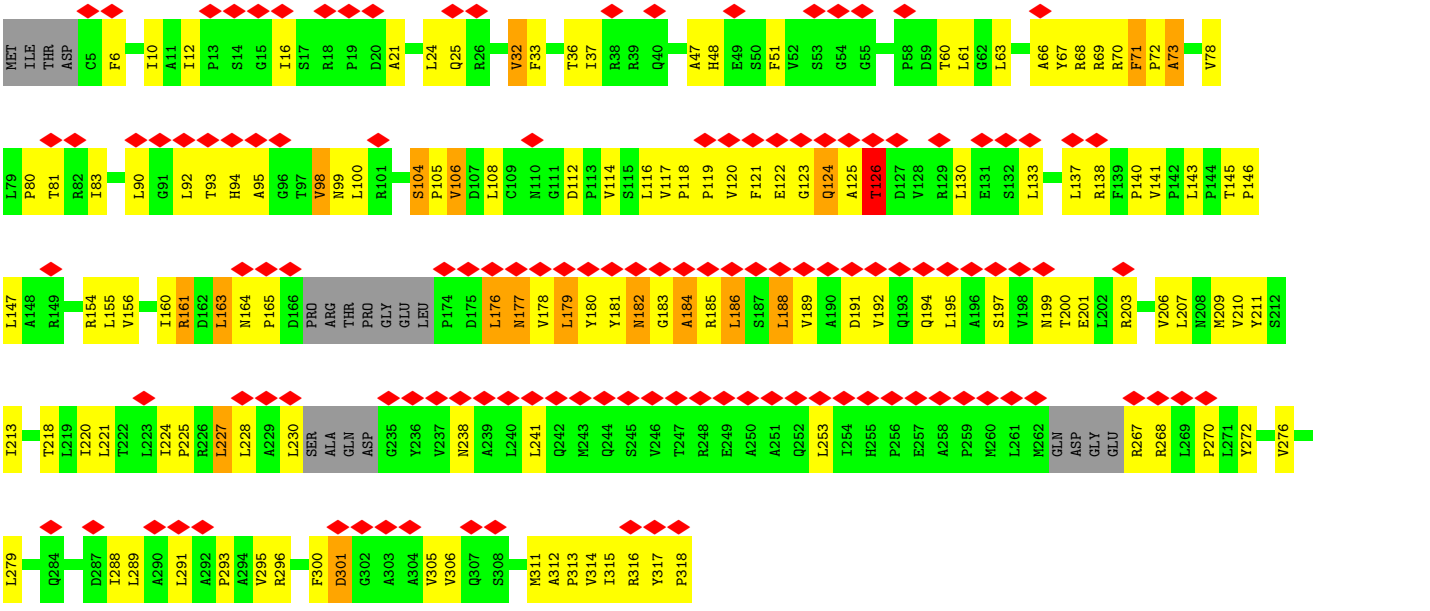


• Molecule 2: Triplex capsid protein 2

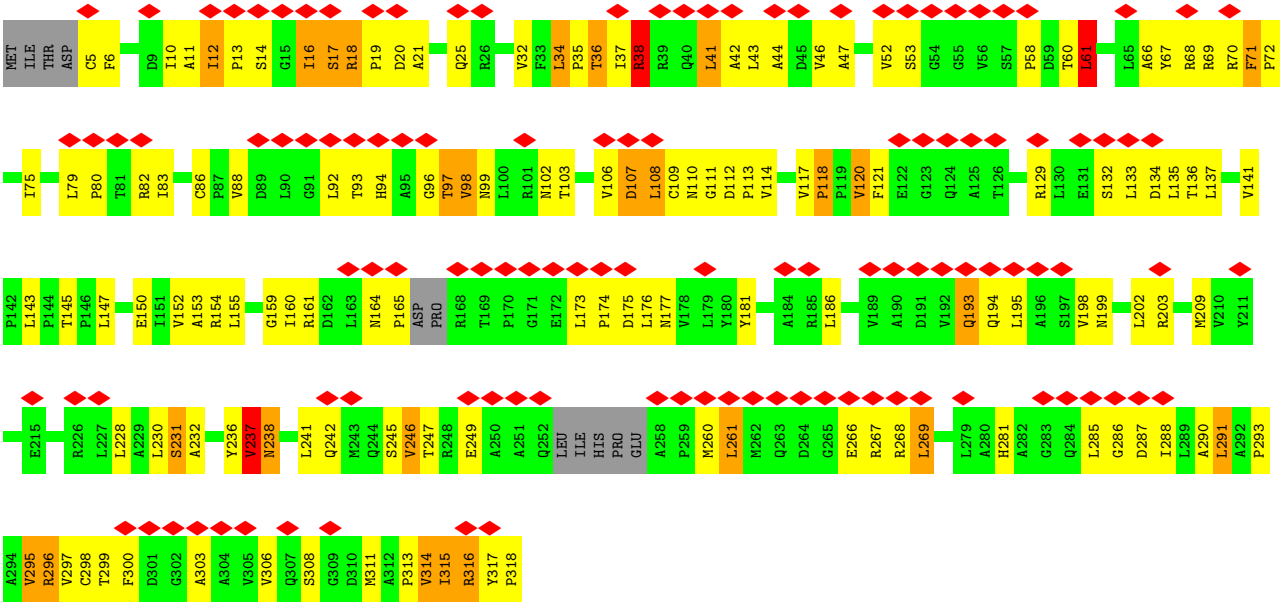
Chain R:



• Molecule 2: Triplex capsid protein 2

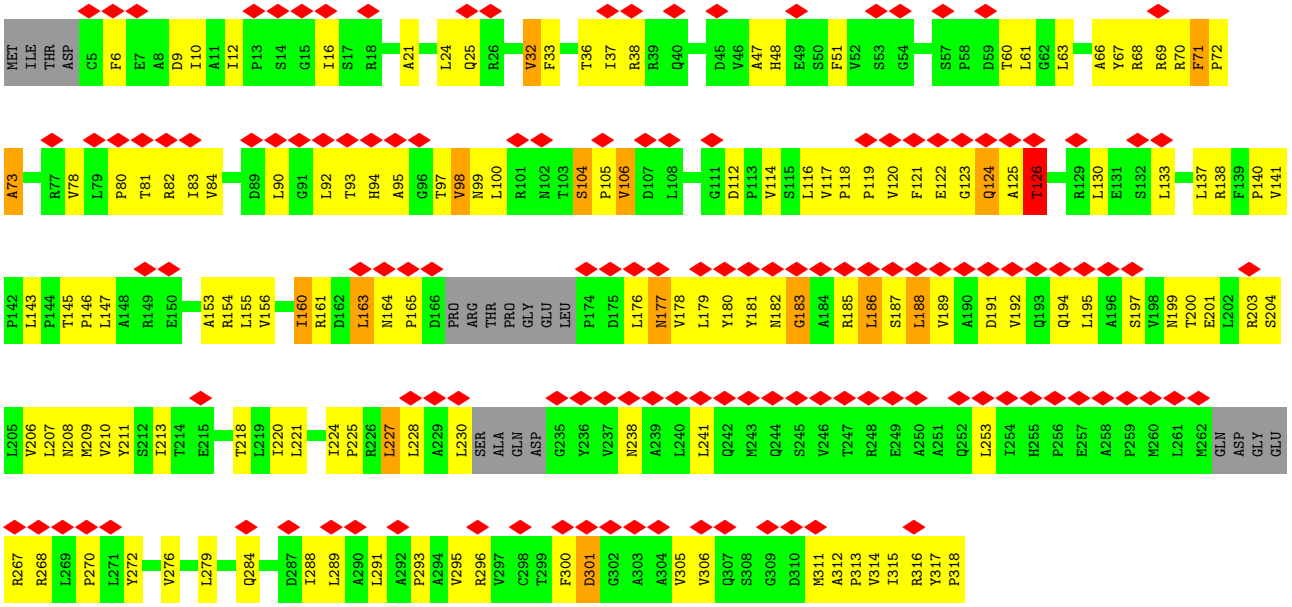


• Molecule 2: Triplex capsid protein 2



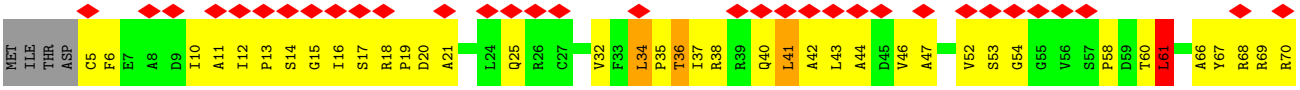
• Molecule 2: Triplex capsid protein 2

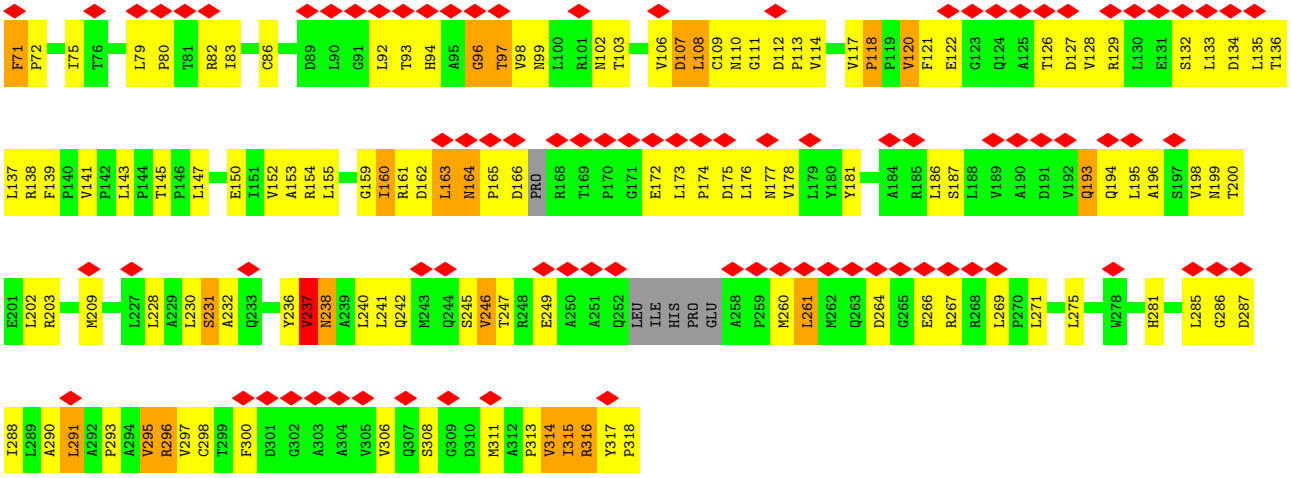
Chain W:



• Molecule 2: Triplex capsid protein 2

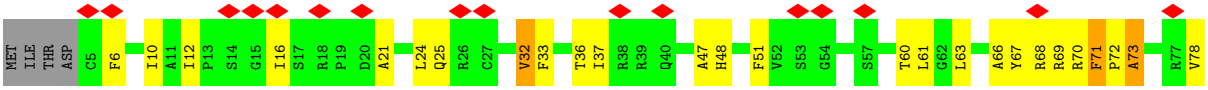
Chain X:

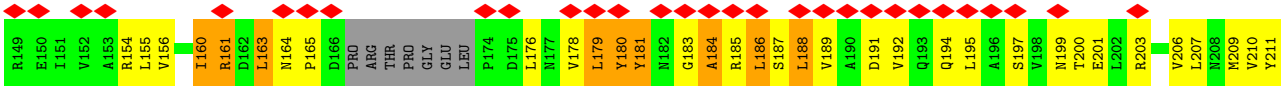


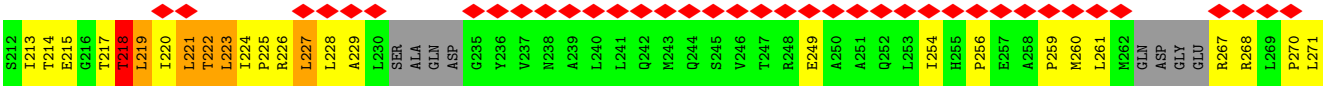


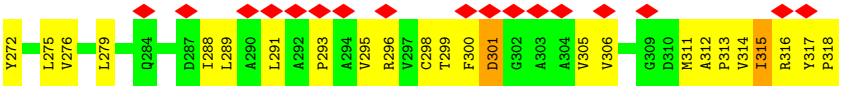
• Molecule 2: Triplex capsid protein 2

Chain Z:



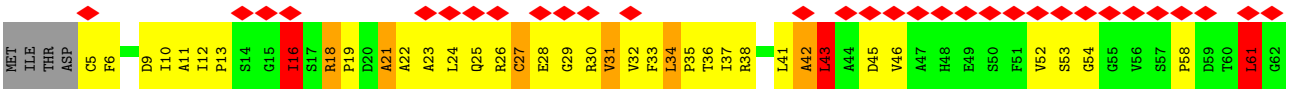


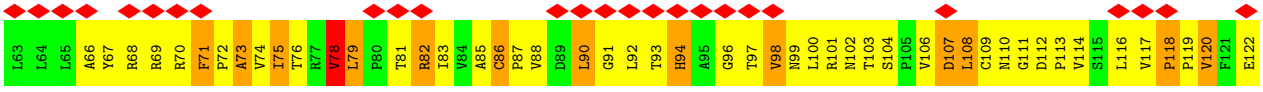


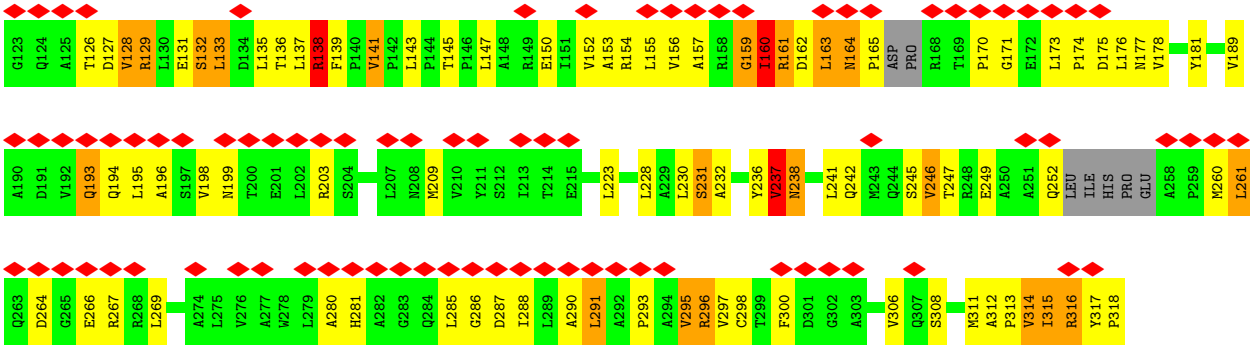


• Molecule 2: Triplex capsid protein 2

Chain a:

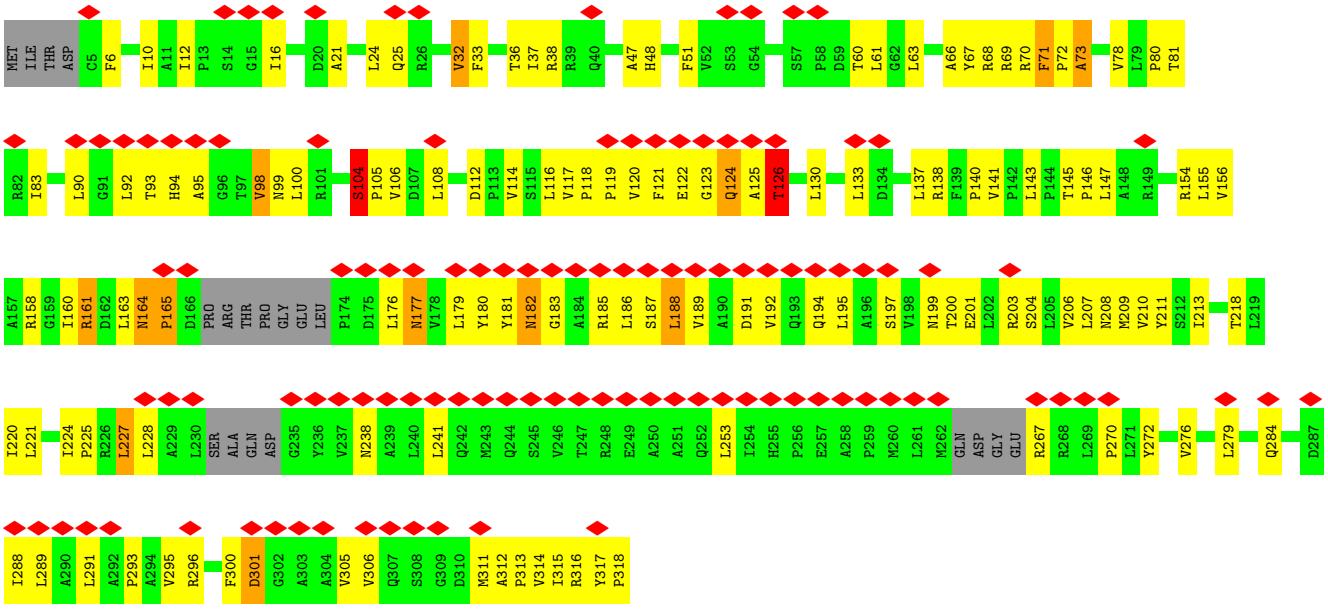






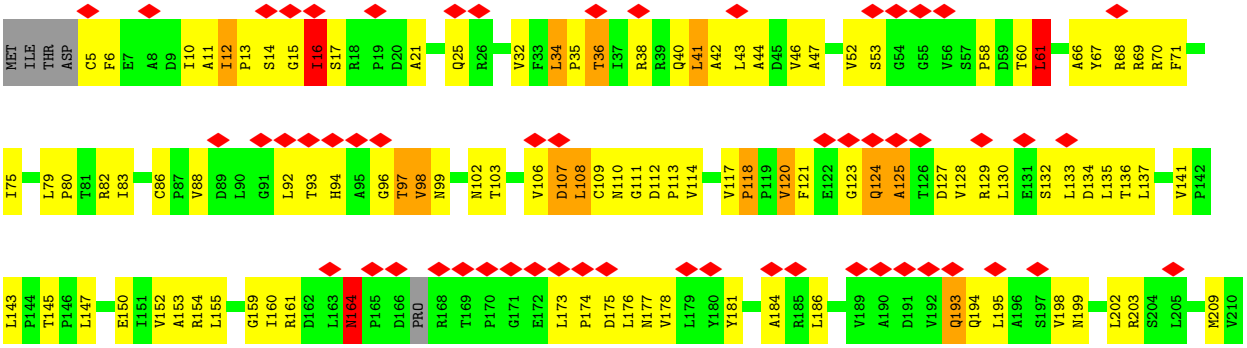
• Molecule 2: Triplex capsid protein 2

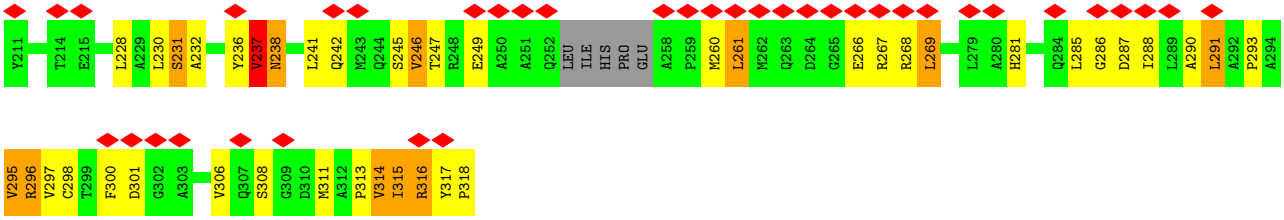
Chain c:



• Molecule 2: Triplex capsid protein 2

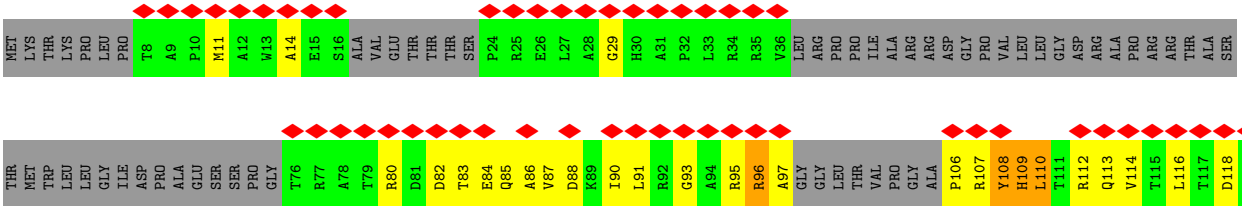
Chain d:

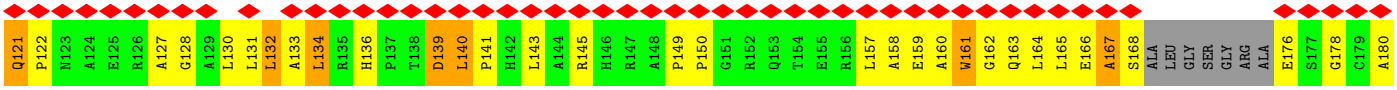


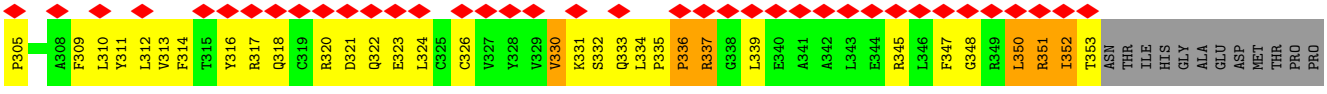


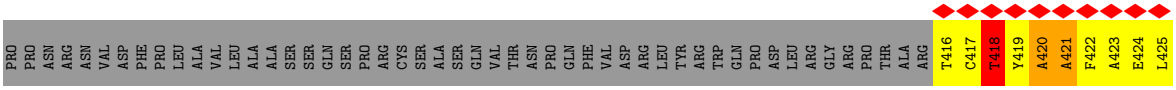
• Molecule 3: Triplex capsid protein 1

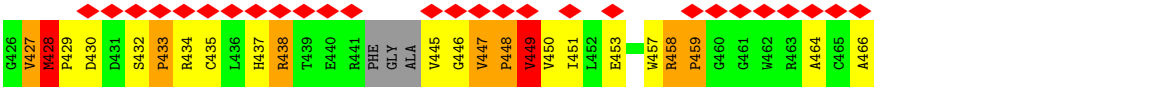
Chain S:





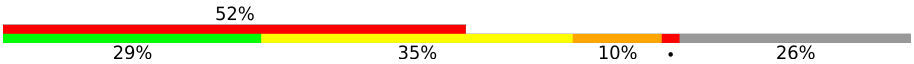


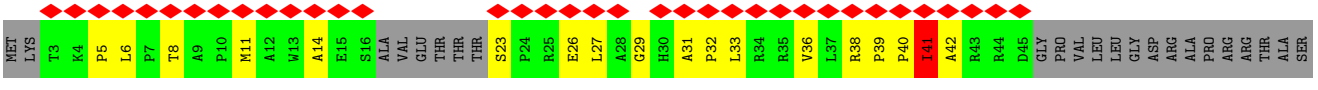


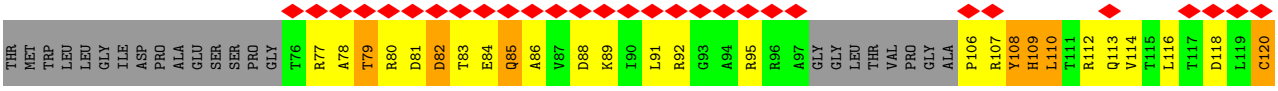


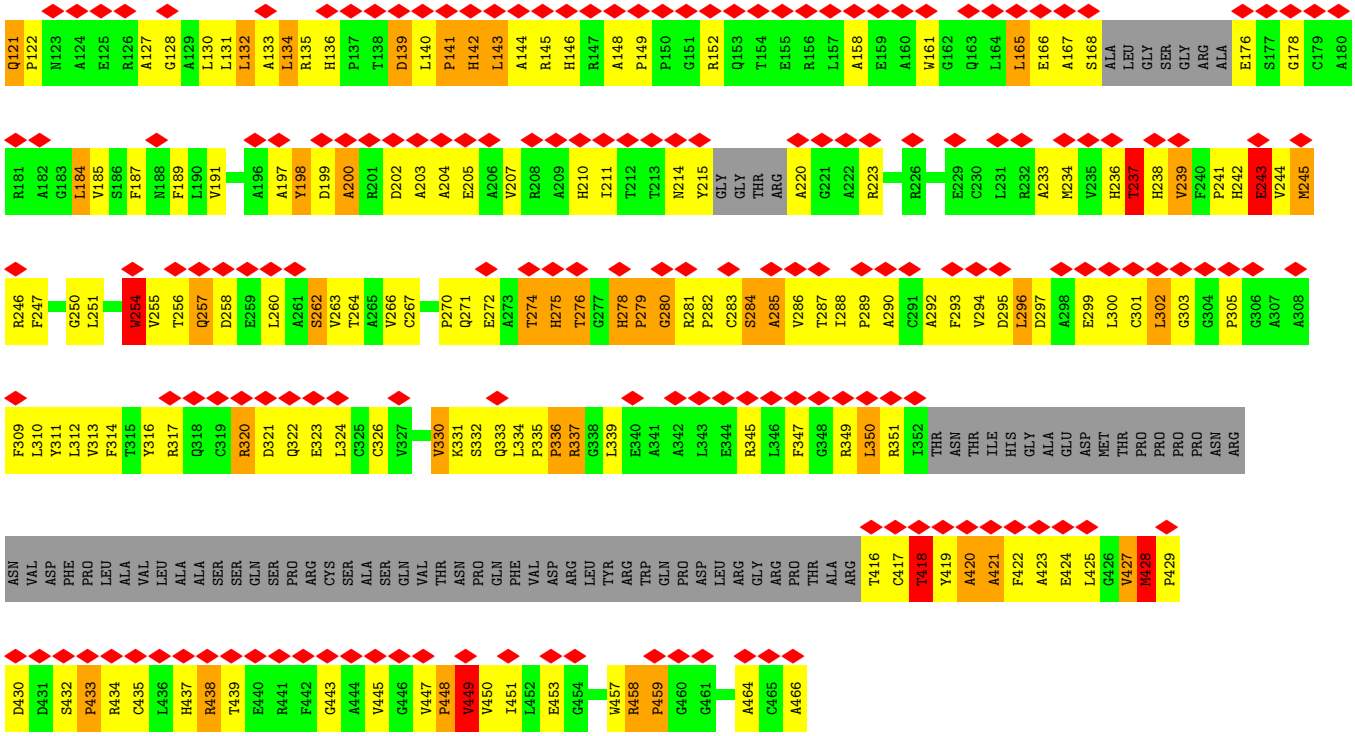
• Molecule 3: Triplex capsid protein 1

Chain V:



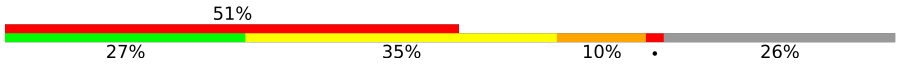


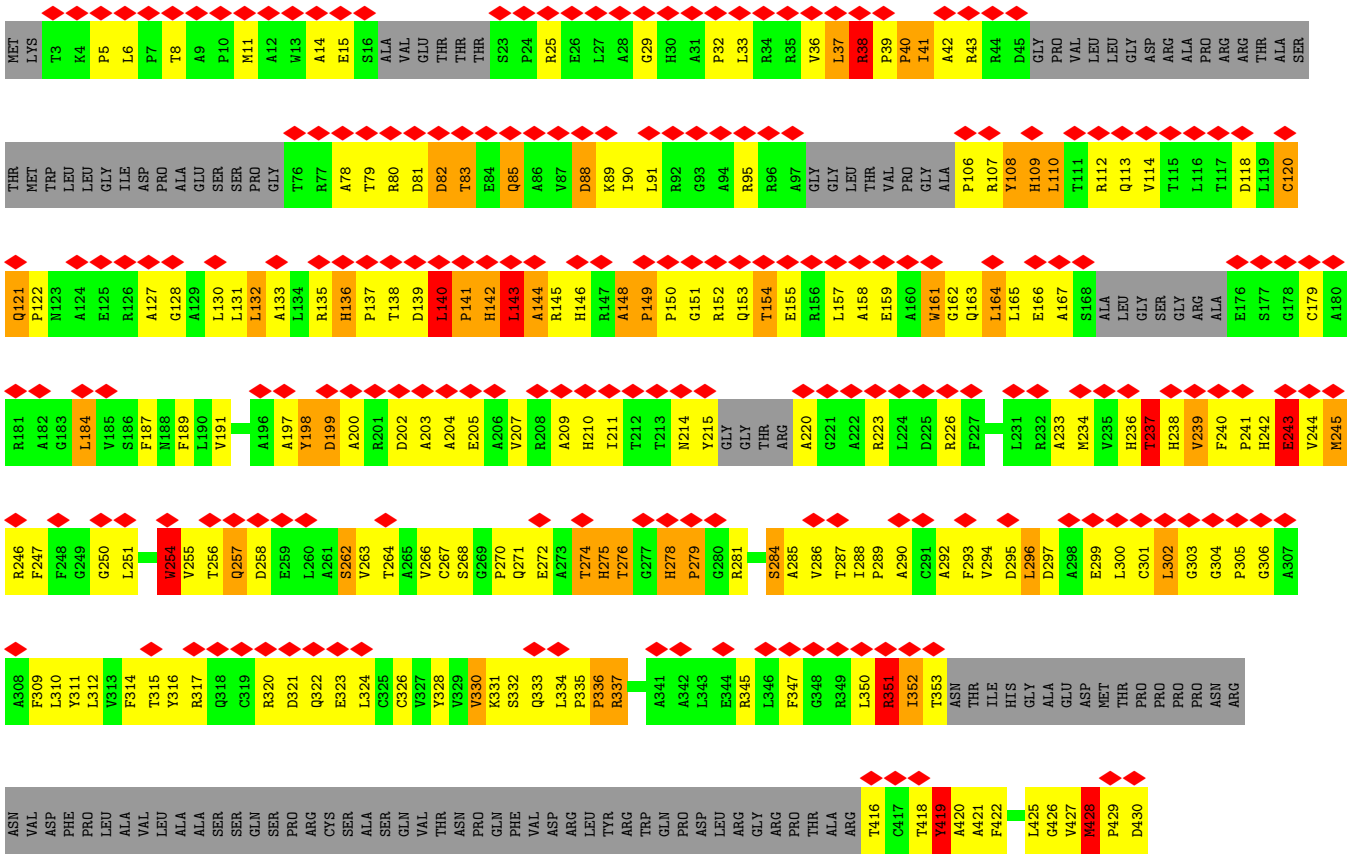


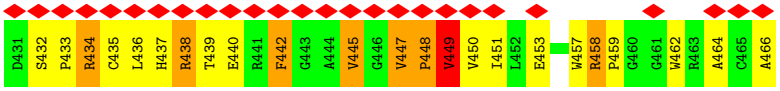


• Molecule 3: Triplex capsid protein 1

Chain Y:

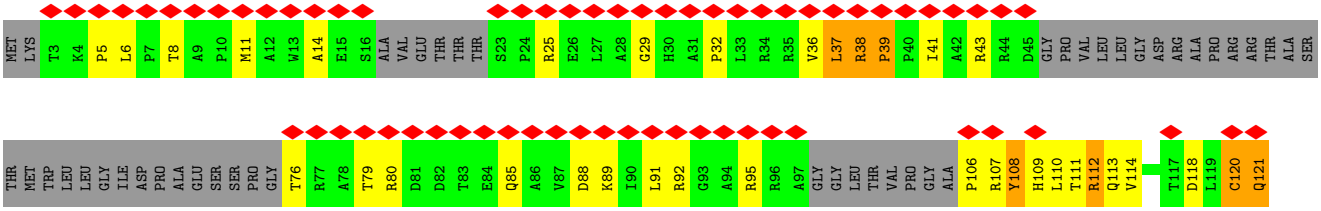


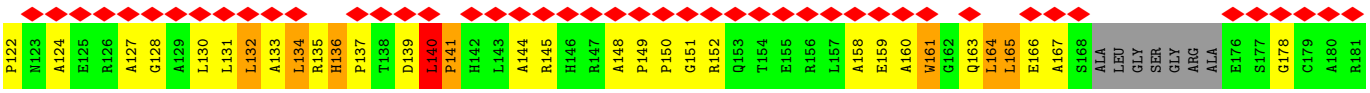


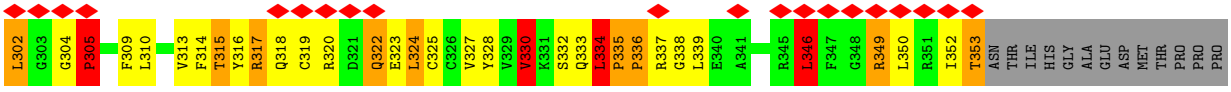


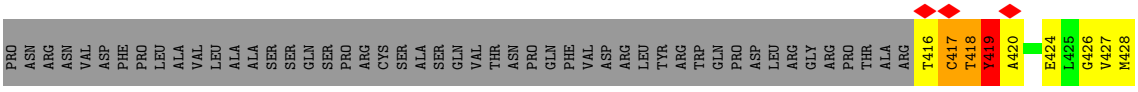
• Molecule 3: Triplex capsid protein 1

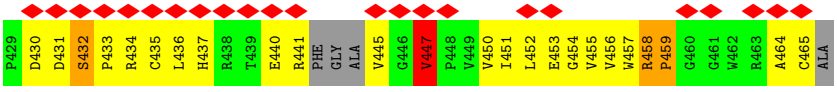
Chain b:





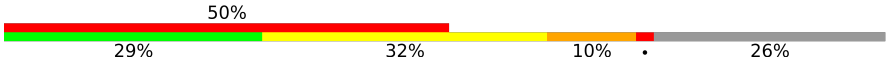


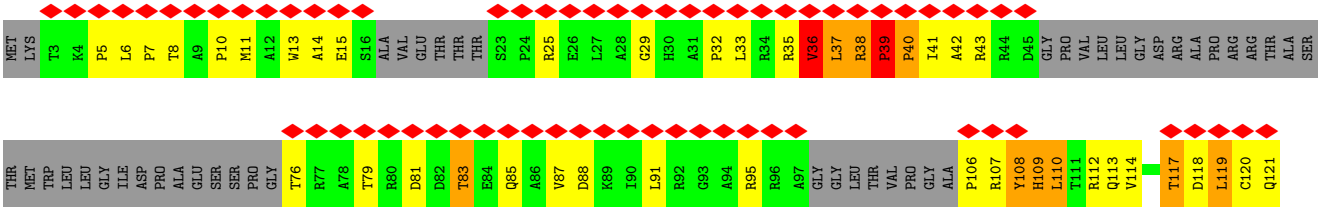


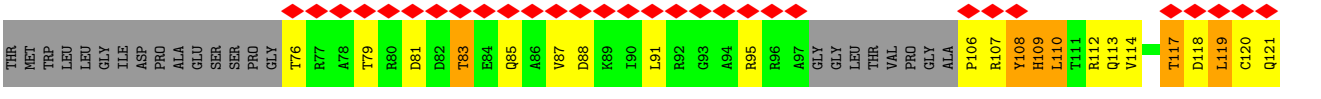


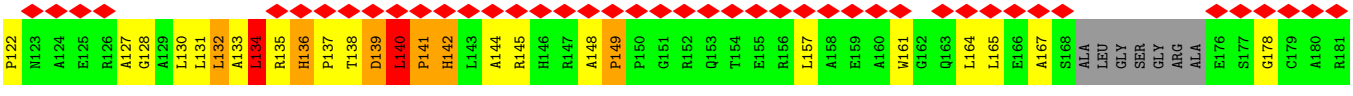
• Molecule 3: Triplex capsid protein 1

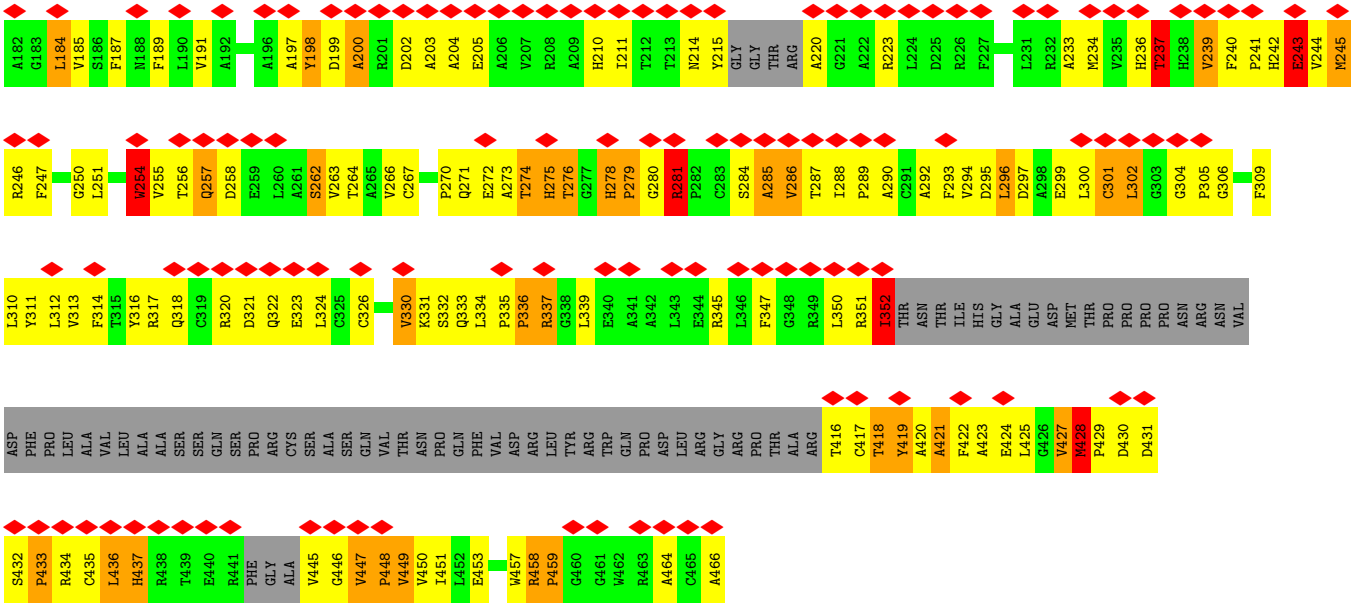
Chain e:





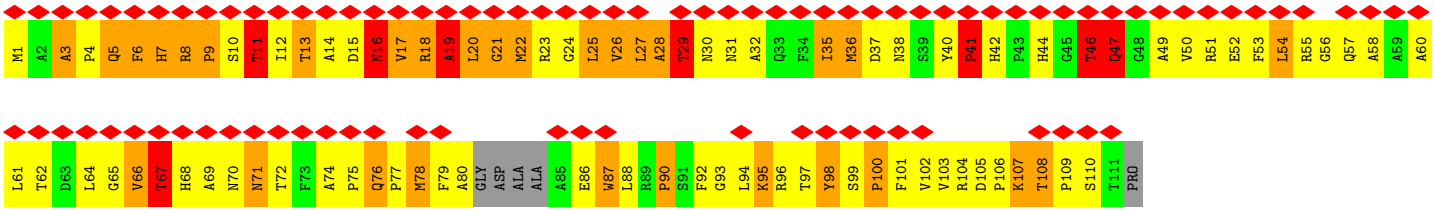






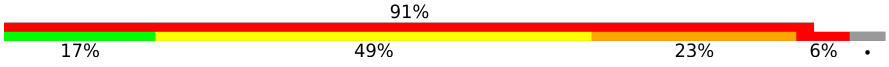
• Molecule 4: Small capsomere-interacting protein

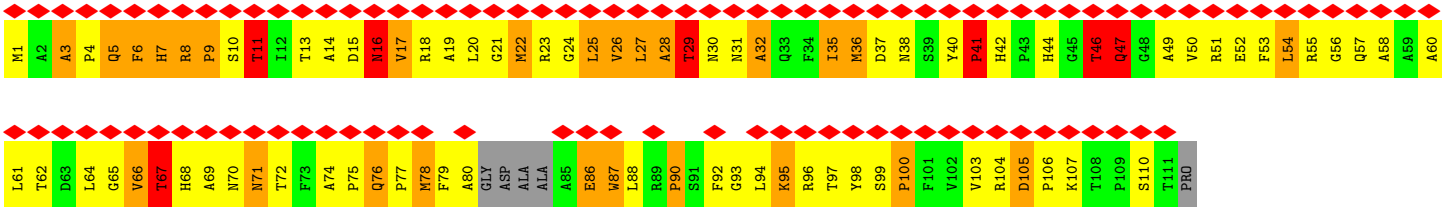
Chain f:



• Molecule 4: Small capsomere-interacting protein

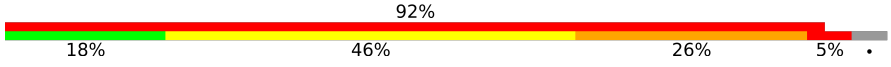
Chain g:

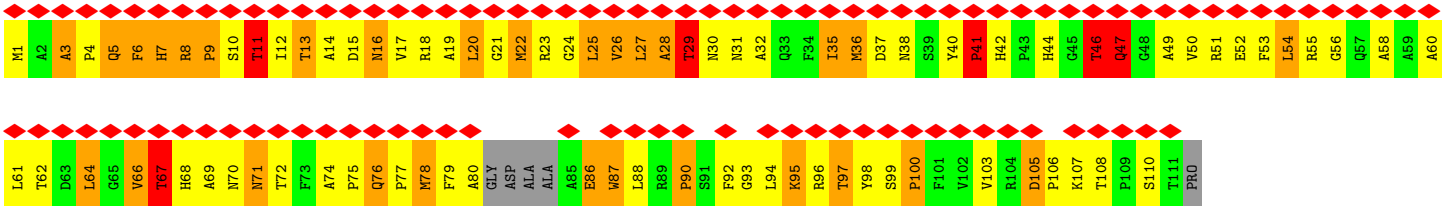




• Molecule 4: Small capsomere-interacting protein

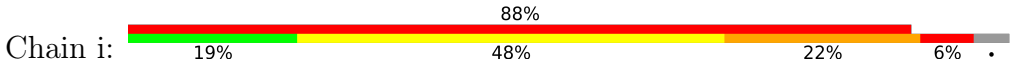
Chain h:

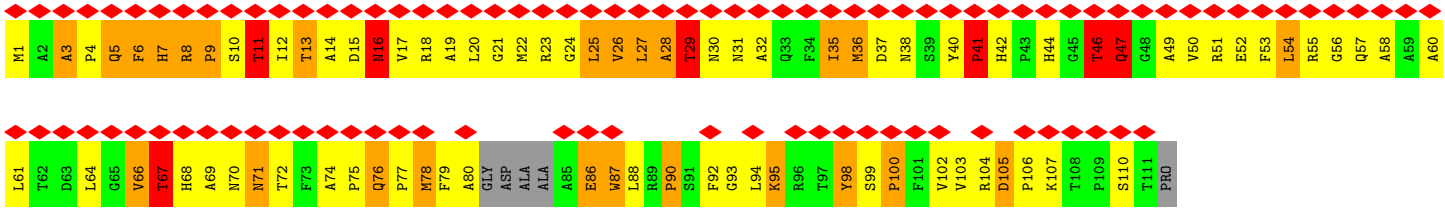




• Molecule 4: Small capsomere-interacting protein

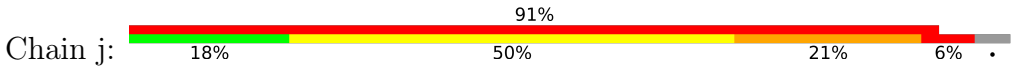
Chain i:

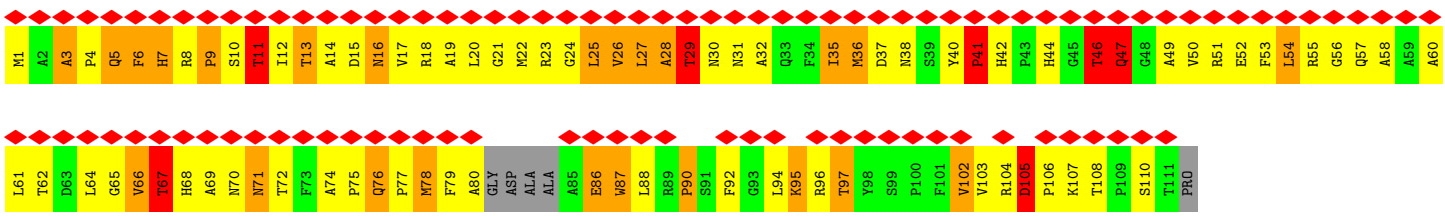




• Molecule 4: Small capsomere-interacting protein

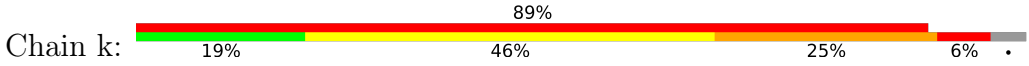
Chain j:

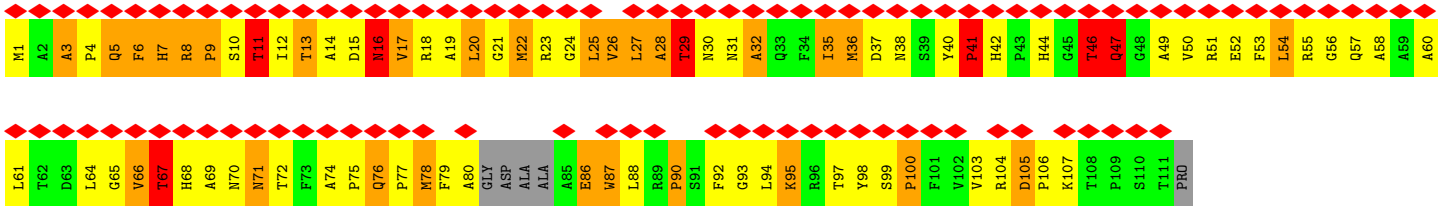




• Molecule 4: Small capsomere-interacting protein

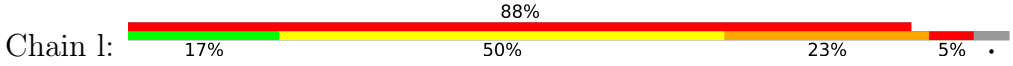
Chain k:

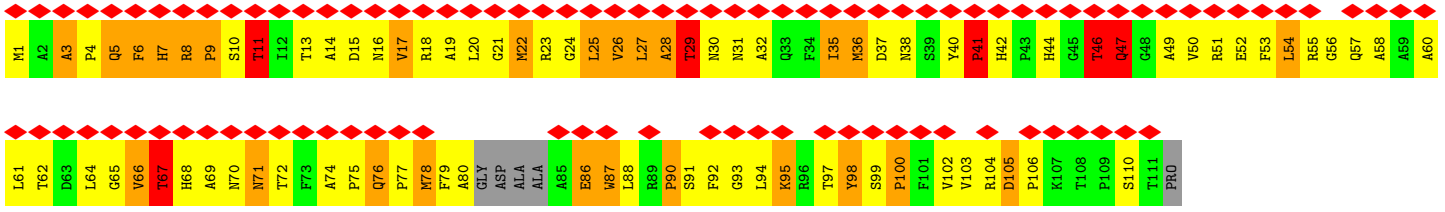




• Molecule 4: Small capsomere-interacting protein

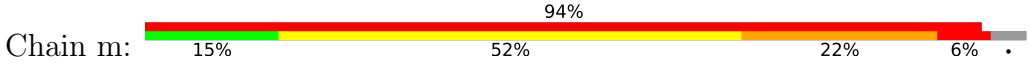
Chain l:

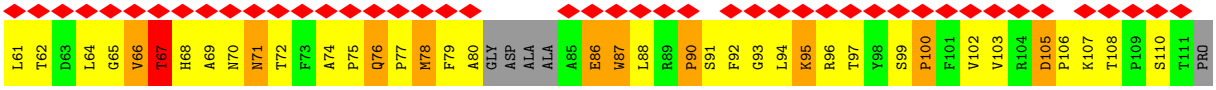




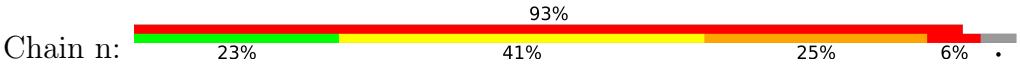
• Molecule 4: Small capsomere-interacting protein

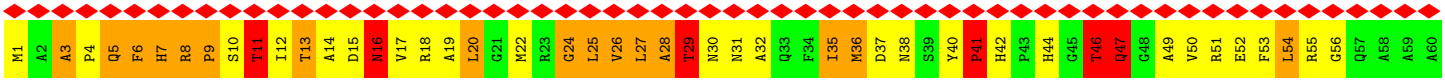
Chain m:

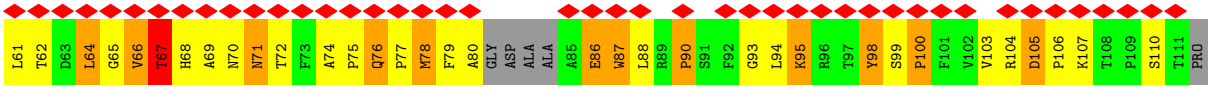




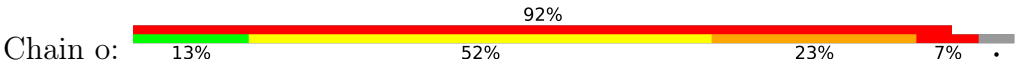
• Molecule 4: Small capsomere-interacting protein

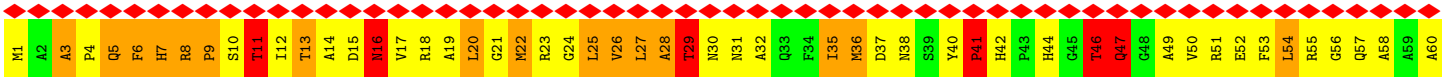


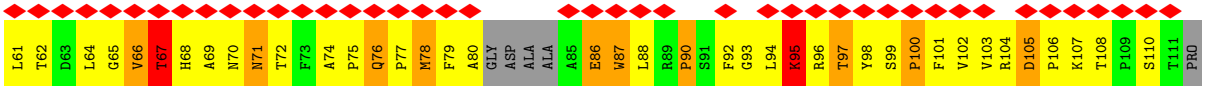




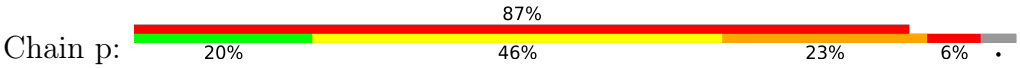
• Molecule 4: Small capsomere-interacting protein

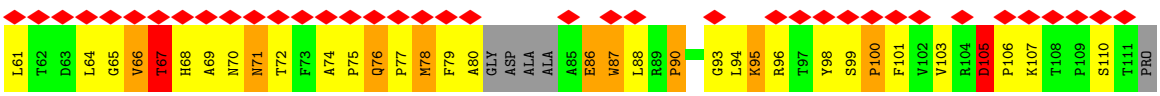




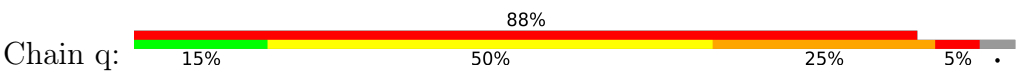


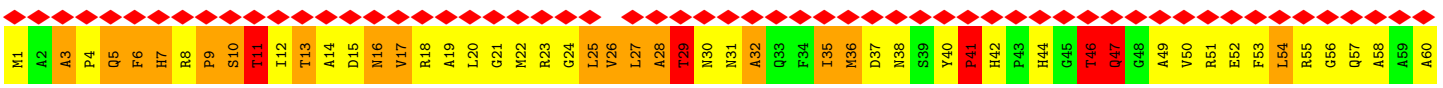
• Molecule 4: Small capsomere-interacting protein

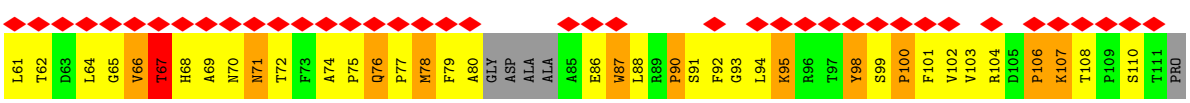




• Molecule 4: Small capsomere-interacting protein

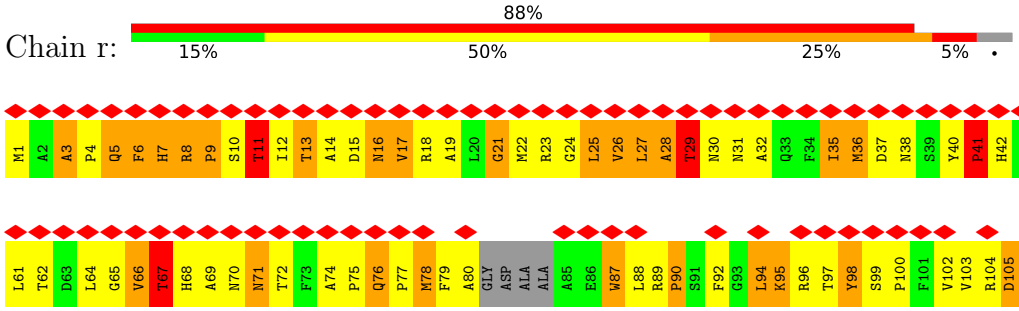






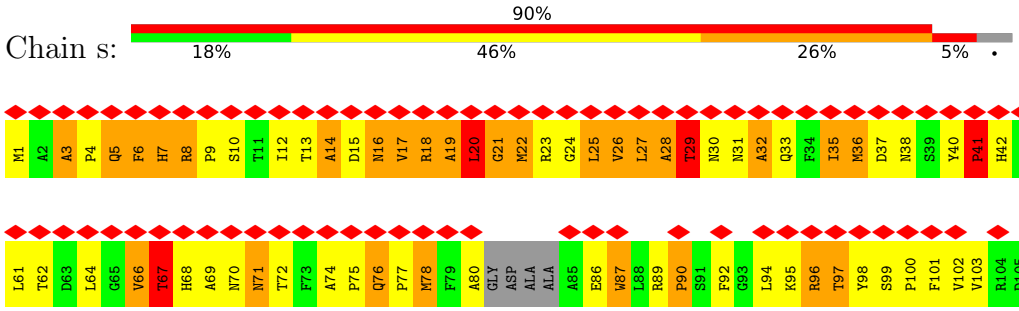
• Molecule 4: Small capsomere-interacting protein

Chain r:



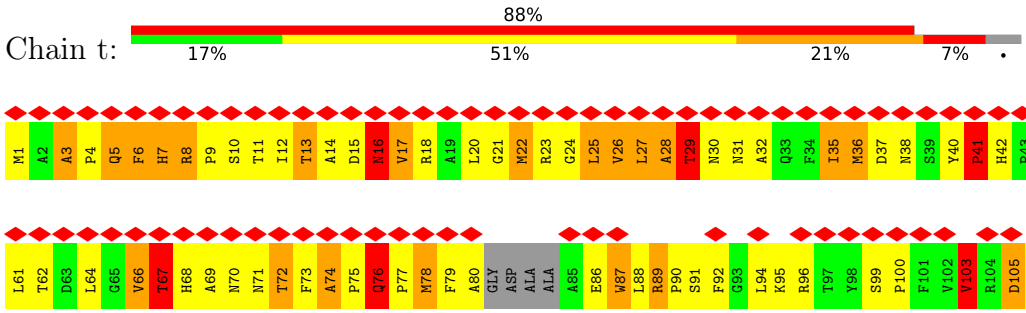
- Molecule 4: Small capsomere-interacting protein

Chain s:



- Molecule 4: Small capsomere-interacting protein

Chain t:



4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	45000	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	NONE	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/Å^2$)	1.1	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	FEI FALCON II (4k x 4k)	Depositor
Maximum map value	121.639	Depositor
Minimum map value	-84.361	Depositor
Average map value	0.001	Depositor
Map value standard deviation	3.240	Depositor
Recommended contour level	12	Depositor
Map size (Å)	1656.0, 1656.0, 1656.0	wwPDB
Map dimensions	1200, 1200, 1200	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.38, 1.38, 1.38	Depositor

5 Model quality (i)

5.1 Standard geometry (i)

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#$\|Z\|$ >5	RMSZ	#$\|Z\|$ >5
1	A	0.74	5/10414 (0.0%)	1.10	115/14248 (0.8%)
1	B	0.76	8/10355 (0.1%)	1.12	107/14158 (0.8%)
1	C	0.79	5/10476 (0.0%)	1.07	91/14321 (0.6%)
1	D	0.71	4/10485 (0.0%)	0.99	87/14333 (0.6%)
1	E	0.68	5/10488 (0.0%)	1.03	87/14335 (0.6%)
1	F	0.77	8/10494 (0.1%)	1.01	68/14341 (0.5%)
1	G	0.70	10/10355 (0.1%)	1.19	159/14175 (1.1%)
1	H	0.69	8/10501 (0.1%)	1.01	83/14351 (0.6%)
1	I	0.85	9/10495 (0.1%)	1.14	116/14343 (0.8%)
1	J	0.96	27/10460 (0.3%)	1.24	143/14301 (1.0%)
1	K	1.24	100/10509 (1.0%)	1.29	156/14360 (1.1%)
1	L	1.17	76/10497 (0.7%)	1.26	131/14346 (0.9%)
1	M	1.11	58/10532 (0.6%)	1.26	153/14394 (1.1%)
1	N	1.07	48/10509 (0.5%)	1.22	137/14360 (1.0%)
1	O	1.21	86/10507 (0.8%)	1.25	129/14358 (0.9%)
1	P	1.13	58/10512 (0.6%)	1.24	142/14365 (1.0%)
2	Q	0.85	1/2114 (0.0%)	1.06	15/2909 (0.5%)
2	R	0.91	4/2215 (0.2%)	1.31	30/3047 (1.0%)
2	T	0.88	2/2114 (0.1%)	1.08	18/2909 (0.6%)
2	U	0.90	4/2219 (0.2%)	1.29	28/3052 (0.9%)
2	W	0.87	1/2114 (0.0%)	1.10	16/2909 (0.6%)
2	X	0.90	4/2227 (0.2%)	1.27	26/3063 (0.8%)
2	Z	0.88	2/2099 (0.1%)	1.16	20/2891 (0.7%)
2	a	1.01	4/2209 (0.2%)	1.55	56/3040 (1.8%)
2	c	0.89	3/2114 (0.1%)	1.07	13/2909 (0.4%)
2	d	0.92	4/2227 (0.2%)	1.32	31/3063 (1.0%)
3	S	0.91	3/2311 (0.1%)	1.64	68/3167 (2.1%)
3	V	0.90	2/2413 (0.1%)	1.69	75/3309 (2.3%)
3	Y	0.94	5/2433 (0.2%)	1.74	79/3334 (2.4%)
3	b	0.91	4/2376 (0.2%)	1.61	69/3261 (2.1%)
3	e	0.90	2/2410 (0.1%)	1.57	72/3301 (2.2%)
4	f	1.29	6/635 (0.9%)	2.30	37/877 (4.2%)
4	g	1.27	6/635 (0.9%)	2.15	30/877 (3.4%)
4	h	1.24	5/635 (0.8%)	2.14	30/877 (3.4%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
4	i	1.27	6/635 (0.9%)	2.14	30/877 (3.4%)
4	j	1.23	5/639 (0.8%)	2.15	29/881 (3.3%)
4	k	1.27	6/635 (0.9%)	2.15	32/877 (3.6%)
4	l	1.25	5/635 (0.8%)	2.13	30/877 (3.4%)
4	m	1.27	6/635 (0.9%)	2.14	30/877 (3.4%)
4	n	1.26	6/632 (0.9%)	2.17	31/874 (3.5%)
4	o	1.26	6/635 (0.9%)	2.23	30/877 (3.4%)
4	p	1.29	6/635 (0.9%)	2.15	29/877 (3.3%)
4	q	1.28	6/635 (0.9%)	2.15	30/877 (3.4%)
4	r	1.19	5/639 (0.8%)	2.27	35/881 (4.0%)
4	s	1.12	3/641 (0.5%)	2.21	38/884 (4.3%)
4	t	1.20	6/635 (0.9%)	2.10	31/877 (3.5%)
All	All	0.95	643/210720 (0.3%)	1.26	2992/288420 (1.0%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	2
1	B	0	1
1	C	0	1
1	D	0	1
1	F	0	1
2	R	0	1
2	U	0	1
2	X	0	1
2	a	0	1
2	d	0	1
3	S	0	1
3	V	0	1
3	Y	0	1
3	e	0	1
4	f	0	1
4	g	0	1
4	h	0	1
4	i	0	1
4	j	0	1
4	k	0	1
4	l	0	1
4	m	0	1

Continued on next page...

Continued from previous page...

Mol	Chain	#Chirality outliers	#Planarity outliers
4	n	0	1
4	o	0	1
4	p	0	1
4	q	0	1
4	r	0	1
4	s	0	1
4	t	0	1
All	All	0	30

All (643) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	L	1253	GLY	C-O	-10.88	1.10	1.23
4	l	32	ALA	CA-C	10.29	1.67	1.53
4	n	32	ALA	CA-C	10.27	1.67	1.53
4	r	32	ALA	CA-C	10.26	1.67	1.53
4	g	32	ALA	CA-C	10.25	1.67	1.53
4	h	32	ALA	CA-C	10.25	1.67	1.53
4	t	32	ALA	CA-C	10.24	1.67	1.53
4	i	32	ALA	CA-C	10.24	1.67	1.53
4	j	32	ALA	CA-C	10.22	1.67	1.53
4	k	32	ALA	CA-C	10.21	1.67	1.53
4	q	32	ALA	CA-C	10.21	1.67	1.53
4	o	32	ALA	CA-C	10.21	1.67	1.53
4	s	32	ALA	CA-C	10.21	1.67	1.53
4	f	32	ALA	CA-C	10.20	1.67	1.53
4	p	32	ALA	CA-C	10.19	1.67	1.53
4	m	32	ALA	CA-C	10.19	1.67	1.53
1	L	475	GLY	C-O	-9.92	1.12	1.23
1	K	1203	CYS	C-O	-9.80	1.11	1.23
1	M	193	PRO	C-O	-9.76	1.16	1.24
1	M	1243	ASN	CA-C	-9.43	1.44	1.52
1	K	1109	VAL	C-O	-9.41	1.14	1.24
1	P	1243	ASN	C-O	-9.39	1.17	1.25
1	N	1332	TYR	CA-C	-9.30	1.41	1.52
1	P	443	TRP	CA-C	-9.29	1.41	1.52
1	L	1109	VAL	C-O	-9.28	1.14	1.23
1	K	1253	GLY	C-O	-9.25	1.12	1.23
1	M	1251	SER	CA-C	-9.21	1.41	1.53
1	K	453	SER	C-O	-8.96	1.14	1.23
1	K	267	ALA	CA-C	-8.87	1.42	1.52
1	N	278	LEU	C-O	-8.84	1.14	1.24

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	O	1035	ALA	CA-C	-8.60	1.42	1.52
1	O	420	ALA	CA-C	-8.57	1.42	1.52
1	K	592	ARG	CA-C	-8.53	1.41	1.52
1	N	818	PRO	N-CD	-8.53	1.35	1.47
1	L	1069	ALA	CA-C	-8.46	1.43	1.52
1	P	1251	SER	CA-C	-8.39	1.42	1.52
1	K	593	ASP	C-O	-8.36	1.14	1.24
1	L	120	MET	C-O	-8.26	1.13	1.23
1	K	485	ASN	CA-C	-8.21	1.44	1.53
1	O	1072	ALA	CA-C	-8.19	1.42	1.52
1	K	426	ALA	CA-C	-8.03	1.43	1.53
1	P	583	PRO	C-O	-8.03	1.14	1.23
1	O	417	ALA	CA-C	-8.00	1.42	1.52
1	K	419	HIS	C-O	-7.88	1.13	1.23
1	K	1254	ASP	C-O	-7.88	1.14	1.24
1	L	1252	TYR	C-O	-7.85	1.15	1.24
1	P	426	ALA	CA-C	-7.84	1.43	1.53
1	O	815	VAL	C-O	-7.83	1.15	1.23
1	J	273	PRO	N-CD	-7.79	1.36	1.47
1	F	818	PRO	N-CD	-7.77	1.36	1.47
1	L	486	PRO	N-CD	-7.75	1.36	1.47
1	K	592	ARG	C-O	-7.74	1.15	1.24
1	K	941	ALA	CA-C	-7.72	1.43	1.52
1	O	1254	ASP	C-O	-7.72	1.15	1.24
1	N	1206	ARG	C-O	-7.71	1.14	1.24
1	O	1267	SER	CA-C	-7.68	1.44	1.52
1	L	87	LEU	CA-C	-7.67	1.43	1.52
1	O	194	PRO	C-O	-7.65	1.14	1.23
1	H	1243	ASN	C-O	-7.59	1.18	1.25
3	b	428	MET	C-N	7.58	1.39	1.33
1	L	1036	LEU	C-O	-7.57	1.14	1.24
1	K	116	VAL	C-O	-7.50	1.16	1.24
1	K	529	GLU	C-O	-7.47	1.15	1.24
1	K	1251	SER	CA-C	-7.47	1.43	1.53
1	O	1148	ARG	C-O	-7.42	1.15	1.24
1	M	818	PRO	N-CD	-7.41	1.37	1.47
1	K	559	PRO	CA-C	-7.40	1.46	1.52
1	P	1253	GLY	C-O	-7.40	1.15	1.23
1	O	378	GLU	C-O	-7.38	1.15	1.23
1	N	1324	PRO	N-CD	-7.37	1.37	1.47
1	K	1197	ASN	CA-C	-7.36	1.43	1.52
1	O	466	LEU	C-O	-7.35	1.14	1.24

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	O	580	GLY	C-O	-7.33	1.15	1.24
1	P	448	GLN	CA-C	-7.30	1.43	1.52
1	M	1253	GLY	C-O	-7.25	1.15	1.23
1	L	419	HIS	C-O	-7.23	1.14	1.23
1	K	1229	HIS	CA-C	-7.23	1.43	1.52
1	K	447	HIS	CA-C	-7.23	1.45	1.53
1	O	123	VAL	C-O	-7.19	1.16	1.24
1	J	439	GLN	CA-C	-7.17	1.43	1.52
1	O	583	PRO	C-O	-7.16	1.15	1.23
1	J	278	LEU	CA-C	-7.14	1.44	1.52
1	K	591	PHE	CA-C	-7.12	1.43	1.52
1	M	1120	THR	C-O	-7.08	1.15	1.23
1	K	1264	ASN	CA-C	-7.07	1.44	1.53
1	O	119	TYR	C-O	-7.01	1.15	1.24
1	K	1111	ALA	C-O	-7.00	1.16	1.23
1	N	277	VAL	CA-C	-6.99	1.44	1.52
1	L	418	ALA	C-O	-6.97	1.16	1.24
1	L	527	THR	CA-C	-6.97	1.43	1.53
1	O	419	HIS	C-O	-6.96	1.15	1.23
1	P	272	ARG	CA-C	-6.94	1.45	1.53
1	K	193	PRO	C-O	-6.91	1.16	1.24
1	I	1243	ASN	CA-C	-6.90	1.46	1.52
1	L	1275	LYS	C-O	-6.90	1.16	1.24
1	K	1067	GLU	C-O	-6.89	1.14	1.23
1	O	452	LEU	C-O	-6.89	1.15	1.23
1	L	417	ALA	CA-C	-6.88	1.44	1.52
1	L	533	GLN	CA-C	-6.87	1.44	1.52
2	Q	73	ALA	C-O	-6.87	1.16	1.24
2	T	73	ALA	C-O	-6.86	1.16	1.24
2	Z	73	ALA	C-O	-6.86	1.16	1.24
1	N	1323	ASP	C-N	6.84	1.39	1.33
1	K	190	GLU	C-O	-6.84	1.16	1.24
1	P	151	THR	CA-C	-6.84	1.44	1.52
1	K	418	ALA	C-O	-6.82	1.16	1.24
1	P	454	MET	C-O	-6.80	1.15	1.24
1	O	417	ALA	C-O	-6.79	1.16	1.24
1	K	1073	TYR	C-O	-6.79	1.16	1.24
1	L	396	GLY	C-O	-6.78	1.17	1.23
2	c	73	ALA	C-O	-6.78	1.16	1.24
2	W	73	ALA	C-O	-6.78	1.16	1.24
1	K	1266	ALA	CA-C	-6.77	1.47	1.52
1	P	1243	ASN	CA-C	-6.77	1.44	1.52

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	O	377	LEU	C-O	-6.74	1.15	1.23
1	L	292	PHE	CA-C	-6.72	1.44	1.52
1	L	1073	TYR	C-O	-6.72	1.15	1.24
1	P	109	PRO	N-CD	-6.72	1.38	1.47
1	K	95	VAL	C-O	-6.71	1.17	1.24
1	M	454	MET	C-O	-6.68	1.15	1.24
1	O	1114	THR	C-O	-6.66	1.15	1.24
1	K	108	GLY	C-N	6.64	1.38	1.33
1	O	375	VAL	C-O	-6.63	1.16	1.23
1	J	399	ASP	N-CA	-6.63	1.37	1.46
1	L	374	LEU	CA-C	-6.62	1.44	1.52
1	L	475	GLY	CA-C	-6.62	1.44	1.52
1	P	1119	VAL	C-O	-6.61	1.16	1.24
1	K	277	VAL	C-O	-6.61	1.17	1.24
1	N	119	TYR	C-O	-6.61	1.16	1.24
1	O	1072	ALA	C-O	-6.61	1.16	1.24
1	N	485	ASN	C-N	6.61	1.39	1.33
1	O	439	GLN	CA-C	-6.60	1.44	1.52
1	O	520	TRP	CA-C	6.58	1.60	1.53
1	K	1252	TYR	CA-C	-6.58	1.44	1.52
1	L	1251	SER	C-O	-6.58	1.15	1.23
1	N	277	VAL	C-O	-6.57	1.16	1.23
1	O	1277	PHE	C-O	-6.57	1.16	1.24
1	K	453	SER	CA-C	-6.57	1.46	1.53
1	M	1328	PHE	CA-C	-6.56	1.44	1.52
1	M	466	LEU	C-O	-6.56	1.16	1.24
1	O	1202	PRO	N-CD	-6.55	1.38	1.47
1	N	1267	SER	CA-C	-6.55	1.46	1.52
1	K	453	SER	N-CA	-6.54	1.38	1.46
1	P	752	ARG	CA-C	-6.53	1.48	1.52
1	K	533	GLN	C-O	-6.52	1.18	1.24
1	N	1332	TYR	C-O	-6.51	1.15	1.24
1	P	1199	PHE	C-O	-6.51	1.15	1.23
1	B	417	ALA	C-O	-6.50	1.15	1.24
2	R	98	VAL	C-O	-6.50	1.17	1.24
1	L	201	MET	C-O	-6.49	1.16	1.24
1	K	378	GLU	C-O	-6.49	1.16	1.23
1	G	276	GLY	CA-C	-6.48	1.46	1.52
1	H	728	ASP	C-N	6.48	1.39	1.33
1	N	277	VAL	N-CA	-6.47	1.38	1.46
1	E	84	PHE	C-N	6.46	1.39	1.33
1	P	1036	LEU	C-O	-6.46	1.15	1.24

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	O	1253	GLY	C-O	-6.45	1.15	1.23
1	N	98	GLU	C-O	-6.43	1.16	1.24
1	F	534	PRO	CA-C	-6.42	1.46	1.52
1	K	533	GLN	CA-C	-6.42	1.44	1.52
1	L	378	GLU	C-O	-6.42	1.15	1.23
1	O	52	VAL	C-O	-6.41	1.17	1.24
1	K	591	PHE	C-O	-6.41	1.16	1.24
1	C	300	ALA	N-CA	-6.41	1.38	1.46
1	J	403	VAL	N-CA	-6.40	1.39	1.46
1	M	1243	ASN	C-O	-6.39	1.17	1.25
3	e	110	LEU	N-CA	-6.39	1.38	1.46
1	K	466	LEU	C-O	-6.39	1.16	1.24
1	M	583	PRO	C-O	-6.39	1.16	1.23
3	V	110	LEU	N-CA	-6.39	1.38	1.46
2	U	98	VAL	C-O	-6.38	1.17	1.24
1	L	526	MET	CA-C	-6.37	1.44	1.53
2	d	98	VAL	C-O	-6.37	1.17	1.24
1	N	1252	TYR	CA-C	-6.37	1.44	1.52
1	N	1331	ALA	C-O	-6.37	1.15	1.23
1	O	1331	ALA	C-O	-6.36	1.15	1.23
3	Y	110	LEU	N-CA	-6.35	1.38	1.46
1	L	1252	TYR	CA-C	-6.35	1.44	1.52
1	K	1203	CYS	CA-C	-6.35	1.44	1.52
3	Y	351	ARG	CA-C	-6.34	1.44	1.52
1	K	596	GLY	C-O	-6.33	1.15	1.23
2	X	107	ASP	CA-C	-6.33	1.44	1.52
1	M	941	ALA	CA-C	-6.33	1.46	1.52
1	O	454	MET	C-O	-6.32	1.15	1.24
1	L	119	TYR	CA-C	-6.31	1.45	1.52
1	P	305	THR	CA-C	6.31	1.60	1.52
2	U	107	ASP	CA-C	-6.31	1.45	1.52
2	X	98	VAL	C-O	-6.30	1.17	1.24
2	R	107	ASP	CA-C	-6.30	1.45	1.52
1	J	61	TYR	N-CA	6.29	1.53	1.45
1	L	537	ALA	CA-C	-6.29	1.44	1.52
3	S	110	LEU	N-CA	-6.29	1.38	1.46
1	O	1106	TYR	C-O	-6.29	1.16	1.24
1	N	1197	ASN	C-O	-6.28	1.16	1.24
1	K	117	HIS	C-O	-6.28	1.16	1.24
1	G	1067	GLU	C-O	-6.27	1.15	1.23
1	F	1331	ALA	C-N	-6.25	1.20	1.33
1	L	1071	GLU	C-O	-6.25	1.16	1.23

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	L	1074	PHE	CA-C	-6.24	1.45	1.52
1	P	194	PRO	C-O	-6.24	1.16	1.23
2	d	107	ASP	CA-C	-6.24	1.45	1.52
1	O	1196	ILE	C-O	-6.23	1.17	1.24
2	a	107	ASP	CA-C	-6.23	1.45	1.52
1	P	1197	ASN	C-O	-6.22	1.15	1.24
1	F	268	ASP	C-O	-6.21	1.17	1.23
1	K	1301	SER	CA-C	-6.20	1.44	1.52
1	O	98	GLU	C-O	-6.18	1.16	1.24
1	O	1228	ASP	CA-C	-6.17	1.45	1.53
1	O	1357	HIS	C-O	-6.16	1.17	1.23
2	X	296	ARG	C-O	-6.15	1.16	1.23
1	K	450	LEU	C-O	-6.15	1.16	1.23
4	f	32	ALA	N-CA	6.13	1.54	1.45
4	h	32	ALA	N-CA	6.13	1.54	1.45
1	M	1221	ASP	C-O	-6.12	1.17	1.24
1	P	523	GLU	CA-C	-6.12	1.45	1.52
4	i	32	ALA	N-CA	6.12	1.54	1.45
1	K	99	VAL	C-O	-6.12	1.17	1.24
2	U	296	ARG	C-O	-6.11	1.16	1.23
1	L	448	GLN	C-O	-6.11	1.16	1.24
4	p	32	ALA	N-CA	6.11	1.54	1.45
4	m	32	ALA	N-CA	6.10	1.54	1.45
4	n	32	ALA	N-CA	6.10	1.54	1.45
4	t	32	ALA	N-CA	6.10	1.54	1.45
1	L	1037	TYR	C-O	-6.10	1.17	1.24
2	a	296	ARG	C-O	-6.10	1.16	1.23
4	r	32	ALA	N-CA	6.10	1.54	1.45
4	q	32	ALA	N-CA	6.08	1.54	1.45
1	L	956	TYR	C-O	-6.08	1.16	1.23
4	j	32	ALA	N-CA	6.07	1.54	1.45
1	B	529	GLU	N-CA	-6.07	1.38	1.46
4	l	32	ALA	N-CA	6.06	1.54	1.45
4	k	32	ALA	N-CA	6.06	1.54	1.45
1	O	98	GLU	CA-C	-6.06	1.45	1.52
1	N	432	PRO	C-O	-6.05	1.16	1.24
1	P	1224	ALA	C-O	-6.05	1.17	1.24
1	O	1345	SER	C-O	-6.05	1.17	1.24
4	g	32	ALA	N-CA	6.05	1.54	1.45
2	d	296	ARG	C-O	-6.03	1.16	1.23
1	J	404	LEU	CA-C	-6.03	1.45	1.52
1	M	268	ASP	CA-C	-6.03	1.45	1.52

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	P	519	ARG	C-O	-6.02	1.16	1.24
2	X	237	VAL	CA-C	-6.01	1.45	1.52
1	K	595	ARG	C-O	-6.01	1.16	1.24
1	N	192	ALA	N-CA	-6.01	1.38	1.45
1	O	1035	ALA	C-O	-6.01	1.17	1.24
1	C	1036	LEU	C-O	-6.00	1.16	1.24
1	O	426	ALA	CA-C	-6.00	1.45	1.53
1	P	195	LEU	C-O	-6.00	1.17	1.24
1	I	431	GLU	C-N	6.00	1.39	1.33
4	o	32	ALA	N-CA	5.99	1.53	1.45
1	G	304	VAL	N-CA	-5.99	1.39	1.46
4	s	32	ALA	N-CA	5.99	1.53	1.45
2	R	296	ARG	C-O	-5.99	1.16	1.23
1	L	1067	GLU	CA-CB	-5.98	1.45	1.53
1	E	1201	ARG	C-O	-5.97	1.19	1.24
1	K	1109	VAL	CA-C	-5.96	1.45	1.52
2	d	237	VAL	CA-C	-5.96	1.45	1.52
1	O	1034	VAL	C-O	-5.95	1.16	1.23
2	U	237	VAL	CA-C	-5.94	1.45	1.52
1	N	1239	ALA	C-O	-5.94	1.16	1.23
1	K	1347	ARG	CA-C	-5.94	1.45	1.52
1	L	1236	ARG	CA-C	-5.94	1.45	1.52
1	O	448	GLN	C-O	-5.93	1.16	1.24
1	P	530	GLN	N-CA	-5.93	1.38	1.46
1	N	1299	ALA	C-O	-5.93	1.16	1.24
1	L	373	ARG	C-O	-5.92	1.17	1.23
1	M	118	ASN	C-O	-5.92	1.16	1.24
2	R	237	VAL	CA-C	-5.91	1.45	1.52
1	N	375	VAL	C-O	-5.91	1.17	1.23
1	L	819	ALA	C-O	-5.91	1.17	1.24
2	a	237	VAL	CA-C	-5.91	1.45	1.52
1	K	1253	GLY	CA-C	-5.90	1.44	1.51
1	I	279	VAL	C-O	-5.89	1.18	1.24
1	O	195	LEU	C-O	-5.88	1.16	1.24
1	N	305	THR	N-CA	5.88	1.52	1.45
1	N	427	PRO	CA-C	-5.88	1.45	1.52
1	N	1224	ALA	C-O	-5.88	1.16	1.24
1	O	1195	ASP	CA-C	-5.88	1.45	1.52
1	M	1330	GLU	C-O	-5.87	1.16	1.23
1	K	1072	ALA	C-O	-5.86	1.17	1.24
1	L	1156	ARG	N-CA	-5.86	1.38	1.46
1	L	1108	ALA	C-O	-5.85	1.16	1.23

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	O	421	GLY	C-O	-5.85	1.16	1.23
1	J	1171	VAL	N-CA	-5.85	1.41	1.46
1	O	438	ARG	C-O	-5.85	1.16	1.24
1	K	920	THR	C-O	-5.85	1.16	1.24
1	M	1067	GLU	C-O	-5.85	1.16	1.23
1	M	1108	ALA	CA-C	-5.84	1.45	1.52
1	N	1204	ASN	CA-C	-5.84	1.46	1.52
1	K	98	GLU	CA-C	-5.84	1.45	1.52
1	L	581	ASN	C-O	-5.84	1.16	1.24
1	H	108	GLY	C-N	5.84	1.38	1.33
1	K	594	ALA	C-O	-5.83	1.16	1.24
1	O	915	ASP	CA-C	-5.83	1.45	1.53
1	N	1199	PHE	CA-C	-5.82	1.45	1.52
1	M	1109	VAL	CA-C	-5.82	1.45	1.52
1	O	1073	TYR	C-O	-5.81	1.17	1.24
1	P	933	LEU	CA-C	-5.81	1.45	1.52
1	O	1344	ARG	C-O	-5.81	1.17	1.24
1	L	486	PRO	CA-C	-5.80	1.48	1.53
1	C	1039	GLN	CA-C	-5.80	1.45	1.52
1	O	526	MET	CA-C	-5.79	1.45	1.53
1	O	192	ALA	CA-C	-5.79	1.45	1.52
1	K	118	ASN	C-O	-5.79	1.17	1.24
1	M	194	PRO	C-O	-5.78	1.16	1.23
1	K	96	GLN	C-O	-5.78	1.16	1.23
1	J	915	ASP	CA-C	-5.78	1.45	1.53
1	K	882	GLY	C-O	-5.77	1.17	1.23
1	O	448	GLN	CA-C	-5.76	1.45	1.52
1	M	1113	ALA	CA-C	-5.76	1.46	1.52
2	c	104	SER	C-N	5.75	1.40	1.33
1	L	1158	GLY	CA-C	-5.73	1.43	1.51
1	O	1358	PHE	CA-C	-5.73	1.48	1.53
1	H	1331	ALA	C-N	-5.73	1.21	1.33
1	K	1251	SER	C-O	-5.72	1.16	1.23
1	O	96	GLN	CA-C	-5.72	1.45	1.52
1	K	293	LEU	CA-C	-5.72	1.45	1.53
1	L	526	MET	C-O	-5.72	1.16	1.23
1	K	303	PRO	N-CD	-5.72	1.39	1.47
1	M	1120	THR	CA-C	-5.71	1.45	1.52
1	N	13	TYR	CA-C	-5.71	1.45	1.53
1	O	380	LEU	C-O	-5.71	1.17	1.23
1	P	431	GLU	C-N	5.71	1.38	1.33
1	K	1275	LYS	C-O	-5.70	1.17	1.24

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	454	MET	C-O	-5.70	1.16	1.24
1	P	150	GLY	C-O	-5.70	1.18	1.24
1	O	418	ALA	C-O	-5.68	1.16	1.24
1	P	149	ASP	CA-C	-5.68	1.45	1.52
1	F	1112	THR	CA-C	-5.67	1.45	1.52
1	P	1195	ASP	C-O	-5.67	1.16	1.23
1	L	1253	GLY	CA-C	-5.66	1.45	1.52
1	M	119	TYR	C-O	-5.66	1.17	1.24
1	P	1251	SER	C-O	-5.66	1.16	1.23
1	M	1157	LEU	C-O	-5.64	1.16	1.24
1	K	452	LEU	C-O	-5.64	1.17	1.24
4	l	14	ALA	CA-C	-5.64	1.45	1.52
4	i	14	ALA	CA-C	-5.64	1.45	1.52
1	G	79	CYS	CA-C	-5.64	1.45	1.52
1	M	533	GLN	CA-C	-5.63	1.45	1.52
1	J	1109	VAL	C-O	-5.62	1.17	1.23
1	M	435	PHE	C-N	5.62	1.40	1.33
1	O	1221	ASP	C-O	-5.62	1.17	1.24
4	f	14	ALA	CA-C	-5.62	1.45	1.52
1	P	959	PRO	C-O	-5.62	1.17	1.23
1	P	151	THR	C-O	-5.61	1.17	1.23
1	N	201	MET	C-O	-5.61	1.16	1.24
4	r	14	ALA	CA-C	-5.61	1.45	1.52
1	O	466	LEU	CA-C	-5.61	1.44	1.52
1	O	93	GLY	C-O	-5.60	1.16	1.23
1	L	525	GLN	CA-C	-5.60	1.45	1.52
1	E	534	PRO	CA-C	-5.60	1.46	1.52
4	q	14	ALA	CA-C	-5.59	1.45	1.52
4	o	14	ALA	CA-C	-5.59	1.45	1.52
1	O	1347	ARG	CA-C	-5.59	1.46	1.52
1	P	195	LEU	CA-C	-5.59	1.45	1.52
4	t	14	ALA	CA-C	-5.59	1.45	1.52
1	K	1231	GLN	CA-C	-5.58	1.45	1.53
1	O	1109	VAL	C-O	-5.58	1.17	1.24
1	P	1037	TYR	C-O	-5.58	1.17	1.24
1	L	1223	ILE	C-O	-5.58	1.17	1.24
1	K	68	VAL	CA-C	-5.57	1.45	1.52
4	k	14	ALA	CA-C	-5.57	1.45	1.52
4	m	14	ALA	CA-C	-5.57	1.45	1.52
1	B	1067	GLU	C-O	-5.57	1.17	1.23
1	J	192	ALA	C-N	5.56	1.40	1.33
1	D	192	ALA	C-N	5.56	1.40	1.33

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	J	284	ILE	C-O	-5.56	1.17	1.24
1	J	1135	ALA	C-N	5.56	1.40	1.33
1	P	1203	CYS	C-O	-5.56	1.17	1.23
1	J	453	SER	CA-C	-5.55	1.45	1.53
1	M	532	MET	CA-C	-5.55	1.45	1.52
1	P	114	GLN	CA-C	-5.55	1.45	1.52
1	K	436	PRO	C-N	5.54	1.40	1.33
1	K	1266	ALA	N-CA	-5.54	1.42	1.47
1	N	118	ASN	C-O	-5.54	1.16	1.23
1	N	1203	CYS	C-O	-5.54	1.16	1.23
4	g	14	ALA	CA-C	-5.54	1.45	1.52
4	j	14	ALA	CA-C	-5.54	1.45	1.52
1	M	1202	PRO	N-CD	-5.54	1.40	1.47
1	O	1224	ALA	N-CA	-5.53	1.38	1.46
1	O	1277	PHE	CA-C	-5.53	1.45	1.52
1	G	1066	SER	CA-C	-5.53	1.46	1.52
1	N	194	PRO	C-O	-5.53	1.17	1.23
1	K	594	ALA	CA-C	-5.52	1.44	1.52
1	P	1253	GLY	CA-C	-5.52	1.46	1.52
1	L	1036	LEU	CA-C	-5.52	1.44	1.52
4	p	14	ALA	CA-C	-5.52	1.45	1.52
1	A	195	LEU	CA-C	-5.52	1.45	1.52
1	L	378	GLU	CA-C	-5.52	1.45	1.52
1	N	427	PRO	C-O	-5.52	1.17	1.23
1	K	467	MET	C-O	-5.51	1.16	1.23
1	K	1036	LEU	C-O	-5.51	1.17	1.24
1	D	1323	ASP	C-N	5.50	1.38	1.33
4	n	14	ALA	CA-C	-5.50	1.45	1.52
1	P	966	GLY	C-O	-5.50	1.16	1.23
1	F	429	HIS	C-N	5.50	1.40	1.34
1	K	449	VAL	CA-C	-5.49	1.46	1.52
1	K	1320	LEU	CA-C	-5.49	1.45	1.52
1	K	915	ASP	CA-C	-5.49	1.46	1.53
1	M	1243	ASN	C-N	5.48	1.39	1.34
1	K	532	MET	C-O	-5.48	1.16	1.23
4	h	14	ALA	CA-C	-5.48	1.45	1.52
1	K	519	ARG	C-O	-5.48	1.17	1.24
1	M	1158	GLY	CA-C	-5.48	1.44	1.51
1	K	280	THR	CA-C	-5.47	1.45	1.53
1	M	201	MET	C-O	-5.47	1.17	1.24
1	M	1301	SER	CA-C	-5.47	1.45	1.52
1	L	1251	SER	CA-C	-5.46	1.45	1.53

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	J	400	LEU	C-O	-5.46	1.17	1.23
4	p	26	VAL	CA-C	-5.46	1.46	1.52
1	M	1345	SER	CA-C	-5.46	1.45	1.52
1	F	188	LEU	C-O	-5.45	1.17	1.24
1	N	120	MET	C-O	-5.45	1.16	1.23
1	O	296	GLU	N-CA	-5.45	1.39	1.46
1	O	431	GLU	CA-C	-5.45	1.46	1.52
4	o	26	VAL	CA-C	-5.45	1.46	1.52
1	M	417	ALA	C-O	-5.44	1.16	1.24
4	l	26	VAL	CA-C	-5.44	1.46	1.52
1	L	522	ALA	N-CA	-5.43	1.39	1.46
1	K	95	VAL	CA-CB	-5.43	1.47	1.54
1	N	1224	ALA	CA-C	-5.43	1.45	1.52
4	f	26	VAL	CA-C	-5.43	1.46	1.52
4	p	16	ASN	CA-C	5.43	1.60	1.52
1	K	528	ALA	N-CA	-5.42	1.39	1.46
4	t	26	VAL	CA-C	-5.42	1.46	1.52
1	P	530	GLN	C-O	-5.42	1.17	1.24
1	P	302	VAL	C-N	5.42	1.40	1.33
4	n	26	VAL	CA-C	-5.42	1.46	1.52
1	G	533	GLN	CA-C	-5.42	1.45	1.52
1	K	529	GLU	CA-C	-5.41	1.45	1.52
1	K	293	LEU	C-O	-5.41	1.18	1.23
1	O	425	PRO	C-O	-5.40	1.16	1.23
4	i	26	VAL	CA-C	-5.40	1.46	1.52
4	m	26	VAL	CA-C	-5.40	1.46	1.52
1	F	7	ASP	C-N	5.40	1.39	1.33
1	L	1107	THR	C-O	-5.40	1.16	1.24
1	B	244	ILE	C-O	-5.39	1.17	1.24
4	g	26	VAL	CA-C	-5.39	1.46	1.52
4	r	26	VAL	CA-C	-5.39	1.46	1.52
1	L	534	PRO	N-CD	-5.39	1.40	1.47
4	n	16	ASN	CA-C	5.39	1.59	1.52
1	O	429	HIS	CA-C	-5.39	1.45	1.52
4	j	26	VAL	CA-C	-5.39	1.46	1.52
1	J	544	HIS	CA-C	-5.38	1.47	1.52
4	q	26	VAL	CA-C	-5.38	1.46	1.52
1	L	528	ALA	C-O	-5.38	1.17	1.24
1	J	277	VAL	C-O	-5.37	1.18	1.24
1	K	1107	THR	C-O	-5.37	1.17	1.24
4	k	16	ASN	CA-C	5.37	1.59	1.52
1	H	192	ALA	C-N	5.37	1.39	1.33

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	L	474	GLY	C-O	-5.37	1.17	1.23
4	t	16	ASN	CA-C	5.37	1.59	1.52
1	N	1251	SER	CA-C	-5.37	1.46	1.52
3	b	136	HIS	C-N	5.37	1.39	1.33
4	s	26	VAL	CA-C	-5.37	1.46	1.52
4	k	26	VAL	CA-C	-5.37	1.46	1.52
1	A	1135	ALA	C-N	5.36	1.39	1.33
1	K	99	VAL	CA-C	-5.36	1.45	1.52
1	M	1122	MET	CA-C	-5.36	1.46	1.53
1	L	192	ALA	C-N	5.35	1.39	1.33
1	K	939	LEU	C-O	-5.35	1.17	1.24
4	h	26	VAL	CA-C	-5.35	1.46	1.52
1	D	1135	ALA	C-N	5.35	1.39	1.33
2	a	71	PHE	C-O	-5.35	1.20	1.25
4	m	16	ASN	CA-C	5.35	1.59	1.52
1	L	420	ALA	CA-C	-5.35	1.46	1.52
1	M	454	MET	N-CA	-5.35	1.39	1.46
4	q	16	ASN	CA-C	5.35	1.59	1.52
1	E	417	ALA	CA-C	-5.34	1.46	1.52
1	M	192	ALA	C-N	5.34	1.40	1.33
1	M	272	ARG	CA-C	-5.34	1.47	1.53
1	L	417	ALA	C-O	-5.34	1.17	1.23
4	j	16	ASN	CA-C	5.34	1.59	1.52
4	g	16	ASN	CA-C	5.34	1.59	1.52
1	K	454	MET	C-O	-5.34	1.16	1.23
1	K	448	GLN	CA-C	-5.33	1.46	1.52
1	O	1251	SER	CA-C	-5.33	1.46	1.52
1	L	89	TYR	C-O	-5.33	1.16	1.23
1	N	290	GLN	CA-C	-5.33	1.45	1.52
1	L	818	PRO	C-O	-5.33	1.17	1.24
1	L	1070	SER	CA-C	-5.32	1.46	1.52
1	L	1332	TYR	CA-C	-5.32	1.45	1.52
1	L	1113	ALA	N-CA	-5.32	1.39	1.47
4	r	16	ASN	CA-C	5.32	1.59	1.52
1	A	295	VAL	N-CA	5.32	1.52	1.46
4	i	16	ASN	CA-C	5.32	1.59	1.52
1	O	378	GLU	CA-CB	-5.32	1.45	1.53
1	M	915	ASP	CA-C	-5.31	1.46	1.53
1	K	192	ALA	C-N	5.31	1.39	1.33
4	f	16	ASN	CA-C	5.31	1.59	1.52
1	K	417	ALA	C-O	-5.30	1.17	1.24
1	M	466	LEU	CA-C	-5.30	1.45	1.52

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	M	1109	VAL	C-O	-5.29	1.18	1.23
1	N	821	SER	CA-CB	-5.29	1.44	1.53
1	O	114	GLN	CA-C	-5.29	1.45	1.53
1	P	581	ASN	C-O	-5.29	1.17	1.24
1	L	305	THR	CA-C	5.29	1.59	1.52
1	G	1196	ILE	C-O	-5.29	1.17	1.24
1	A	1298	SER	N-CA	-5.28	1.38	1.46
1	P	522	ALA	N-CA	-5.28	1.39	1.46
1	K	583	PRO	C-O	-5.28	1.17	1.23
1	O	1147	LEU	C-O	-5.28	1.17	1.24
1	N	1201	ARG	C-N	5.27	1.39	1.33
1	P	1330	GLU	C-O	-5.27	1.17	1.23
1	M	819	ALA	C-O	-5.26	1.16	1.23
1	I	96	GLN	CA-C	-5.26	1.46	1.52
1	L	86	GLU	C-O	-5.25	1.17	1.24
1	L	295	VAL	N-CA	-5.25	1.39	1.46
1	O	526	MET	C-O	-5.25	1.16	1.23
1	O	418	ALA	CA-C	-5.24	1.45	1.52
1	O	1330	GLU	CA-CB	-5.24	1.45	1.53
1	K	1197	ASN	C-O	-5.24	1.17	1.24
1	P	750	ARG	C-O	-5.23	1.17	1.24
2	c	161	ARG	C-O	-5.23	1.17	1.24
1	K	1072	ALA	CA-C	-5.22	1.46	1.52
1	J	73	LEU	CA-C	-5.22	1.46	1.52
1	J	266	HIS	CA-C	-5.21	1.46	1.52
1	K	1230	GLY	C-O	-5.21	1.19	1.24
1	M	1196	ILE	C-O	-5.21	1.16	1.24
1	L	119	TYR	C-O	-5.21	1.17	1.24
1	J	1267	SER	CA-C	-5.21	1.47	1.52
1	C	300	ALA	CA-C	-5.20	1.46	1.52
1	L	1267	SER	CA-C	-5.20	1.48	1.52
1	O	376	PHE	C-O	-5.20	1.17	1.24
1	L	1200	ARG	CZ-NH2	-5.20	1.26	1.33
1	P	1332	TYR	CA-C	-5.20	1.47	1.52
4	o	16	ASN	CA-C	5.20	1.59	1.52
1	B	448	GLN	C-O	-5.20	1.17	1.24
1	M	1236	ARG	CA-C	-5.20	1.47	1.52
1	P	304	VAL	CA-C	5.19	1.59	1.52
1	O	116	VAL	C-O	-5.19	1.18	1.24
1	P	1157	LEU	C-O	-5.19	1.17	1.24
4	i	95	LYS	CA-C	-5.19	1.45	1.52
1	A	194	PRO	C-O	-5.18	1.18	1.23

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	O	1344	ARG	CA-C	-5.18	1.46	1.52
1	B	821	SER	CA-C	-5.18	1.46	1.52
1	H	486	PRO	CA-C	-5.18	1.48	1.52
4	k	95	LYS	CA-C	-5.17	1.45	1.52
1	J	452	LEU	C-O	-5.17	1.17	1.24
1	K	1204	ASN	CG-OD1	-5.17	1.13	1.23
1	K	1069	ALA	CA-C	-5.16	1.45	1.53
1	K	1074	PHE	CA-C	-5.16	1.46	1.52
1	I	7	ASP	C-N	5.16	1.39	1.33
1	O	1333	PRO	C-O	-5.16	1.18	1.23
1	P	1198	TYR	C-O	-5.16	1.17	1.24
4	q	95	LYS	CA-C	-5.16	1.45	1.52
1	K	1074	PHE	C-O	-5.15	1.17	1.24
4	f	95	LYS	CA-C	-5.15	1.45	1.52
1	G	193	PRO	C-O	-5.15	1.18	1.24
2	T	161	ARG	C-O	-5.15	1.18	1.24
1	M	419	HIS	CA-C	-5.14	1.46	1.52
1	M	1241	THR	C-O	-5.14	1.17	1.23
1	P	526	MET	CA-C	-5.14	1.46	1.53
1	P	1201	ARG	C-O	-5.14	1.18	1.24
1	J	233	PHE	N-CA	-5.13	1.39	1.45
1	O	1330	GLU	C-O	-5.13	1.17	1.23
1	G	563	VAL	C-N	5.13	1.39	1.33
1	L	56	ALA	C-O	-5.13	1.17	1.23
1	L	1157	LEU	C-O	-5.13	1.17	1.24
1	B	96	GLN	CA-C	-5.13	1.46	1.52
1	N	280	THR	C-O	-5.13	1.19	1.24
1	N	303	PRO	N-CD	-5.13	1.40	1.47
1	O	429	HIS	C-N	5.13	1.40	1.33
1	O	69	ARG	CA-C	-5.12	1.46	1.52
1	N	324	LYS	CA-C	-5.12	1.46	1.52
4	g	95	LYS	CA-C	-5.12	1.46	1.52
4	l	95	LYS	CA-C	-5.12	1.46	1.52
1	O	1358	PHE	C-O	-5.12	1.19	1.24
1	E	258	SER	CA-C	-5.12	1.47	1.52
1	M	465	SER	N-CA	-5.12	1.39	1.46
1	O	578	VAL	C-O	-5.12	1.17	1.23
1	J	1109	VAL	CA-C	-5.11	1.46	1.52
4	n	95	LYS	CA-C	-5.11	1.46	1.52
4	m	95	LYS	CA-C	-5.11	1.46	1.52
4	o	95	LYS	CA-C	-5.11	1.46	1.52
4	p	95	LYS	CA-C	-5.11	1.46	1.52

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	K	955	PHE	C-O	-5.11	1.17	1.24
1	J	44	SER	CA-C	-5.10	1.46	1.52
1	P	1196	ILE	CA-C	-5.10	1.46	1.52
1	M	433	ARG	N-CA	-5.09	1.39	1.46
1	M	1345	SER	C-O	-5.09	1.18	1.24
1	M	429	HIS	CA-C	-5.09	1.46	1.52
1	N	1120	THR	C-O	-5.09	1.17	1.23
1	P	305	THR	N-CA	5.09	1.52	1.45
1	O	1228	ASP	C-O	-5.09	1.18	1.23
1	O	1275	LYS	C-O	-5.09	1.18	1.24
1	N	1225	LEU	C-O	-5.09	1.18	1.24
1	K	191	LYS	C-O	-5.08	1.18	1.24
1	K	462	CYS	C-N	-5.08	1.25	1.33
2	Z	161	ARG	C-O	-5.08	1.18	1.24
1	M	267	ALA	N-CA	-5.08	1.39	1.46
1	M	444	GLY	C-O	-5.08	1.16	1.23
1	L	519	ARG	C-O	-5.08	1.18	1.24
1	M	1328	PHE	C-O	-5.08	1.18	1.24
3	S	449	VAL	N-CA	-5.08	1.40	1.46
1	D	96	GLN	CA-C	-5.08	1.46	1.52
1	I	11	TYR	CA-C	-5.08	1.46	1.52
1	I	322	MET	CA-C	-5.08	1.46	1.52
1	L	1074	PHE	C-O	-5.08	1.18	1.24
1	N	1324	PRO	C-O	-5.08	1.18	1.24
1	L	419	HIS	CA-C	-5.07	1.46	1.52
1	P	1201	ARG	C-N	5.07	1.39	1.33
1	L	534	PRO	CA-C	-5.07	1.45	1.52
3	V	449	VAL	N-CA	-5.07	1.40	1.46
3	Y	304	GLY	C-N	5.07	1.39	1.33
1	J	393	PRO	C-O	-5.06	1.18	1.24
1	K	1062	ASN	CA-C	-5.06	1.46	1.52
1	P	1334	ILE	C-O	-5.06	1.17	1.23
1	I	429	HIS	C-N	5.06	1.39	1.33
3	Y	449	VAL	N-CA	-5.06	1.40	1.46
1	L	374	LEU	C-O	-5.05	1.17	1.23
1	H	435	PHE	C-N	5.05	1.39	1.33
1	K	276	GLY	C-O	-5.05	1.17	1.23
1	P	1199	PHE	CA-C	-5.05	1.45	1.52
1	M	1252	TYR	C-O	-5.05	1.18	1.24
1	G	1066	SER	C-O	-5.05	1.17	1.23
4	h	95	LYS	CA-C	-5.04	1.46	1.52
3	b	447	VAL	C-N	5.04	1.39	1.33

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	J	433	ARG	CA-C	-5.04	1.44	1.52
1	I	1219	GLU	CA-C	-5.04	1.48	1.53
3	S	304	GLY	C-N	5.04	1.39	1.33
1	L	492	ALA	C-N	-5.03	1.23	1.33
1	B	454	MET	C-O	-5.03	1.17	1.24
1	O	1036	LEU	C-O	-5.03	1.17	1.24
4	t	74	ALA	C-N	5.03	1.39	1.33
1	K	448	GLN	C-O	-5.03	1.18	1.24
1	P	433	ARG	CA-C	-5.03	1.45	1.52
1	L	114	GLN	CA-C	-5.02	1.47	1.52
1	M	39	PHE	CA-C	-5.02	1.46	1.52
1	M	537	ALA	CA-C	-5.02	1.45	1.52
1	N	267	ALA	C-O	-5.02	1.18	1.23
3	Y	38	ARG	C-N	5.02	1.39	1.33
1	N	1198	TYR	CA-C	-5.02	1.46	1.52
1	C	1039	GLN	C-O	-5.02	1.18	1.24
1	M	1346	ALA	CA-C	-5.01	1.45	1.52
1	O	1038	HIS	CA-C	-5.01	1.46	1.52
1	H	1069	ALA	C-O	-5.01	1.19	1.24
1	P	1331	ALA	C-O	-5.01	1.17	1.23
3	b	164	LEU	CA-C	-5.01	1.46	1.52
1	M	1251	SER	C-O	-5.01	1.18	1.23
1	J	479	ASP	C-N	5.00	1.39	1.33
1	P	444	GLY	C-O	-5.00	1.16	1.23
3	e	38	ARG	C-N	5.00	1.39	1.33

All (2992) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	295	VAL	N-CA-C	23.83	132.93	110.53
1	C	529	GLU	N-CA-C	-21.45	87.44	114.04
1	A	1086	GLY	N-CA-C	-20.09	87.85	111.36
1	A	270	ARG	N-CA-C	-19.93	89.33	114.04
1	L	957	VAL	N-CA-C	18.41	128.10	110.42
1	E	1316	GLY	N-CA-C	18.41	134.82	112.73
1	E	1124	ASN	N-CA-C	18.33	131.26	111.28
1	N	71	LEU	N-CA-C	-18.23	91.45	113.88
1	J	527	THR	N-CA-C	-18.22	87.02	110.53
1	E	882	GLY	N-CA-C	-17.62	89.40	112.14
1	M	528	ALA	N-CA-C	-17.47	91.53	113.55
1	I	1224	ALA	N-CA-C	-17.18	91.90	113.55
1	H	363	VAL	N-CA-C	17.12	130.02	111.88

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	O	957	VAL	N-CA-C	17.08	126.81	110.42
1	I	882	GLY	N-CA-C	-17.07	90.12	112.14
3	Y	140	LEU	C-N-CD	-17.06	55.04	125.00
1	P	1280	ALA	N-CA-C	-16.84	92.33	113.55
3	S	293	PHE	N-CA-C	-16.84	91.95	113.17
3	e	293	PHE	N-CA-C	-16.83	91.96	113.17
3	Y	293	PHE	N-CA-C	-16.82	91.98	113.17
1	O	1224	ALA	N-CA-C	-16.80	92.26	113.43
3	V	293	PHE	N-CA-C	-16.80	92.01	113.17
2	Z	316	ARG	N-CA-C	16.38	129.13	111.28
1	B	529	GLU	N-CA-C	-16.32	93.81	113.88
1	H	536	ASN	N-CA-C	-16.31	90.12	112.30
1	M	44	SER	N-CA-C	-16.30	91.25	112.93
1	B	882	GLY	N-CA-C	-16.12	91.34	112.14
1	K	557	GLU	N-CA-C	-16.07	82.33	108.52
3	V	275	HIS	N-CA-C	-15.99	94.21	114.04
3	b	275	HIS	N-CA-C	-15.99	94.21	114.04
3	e	275	HIS	N-CA-C	-15.98	94.23	114.04
3	Y	275	HIS	N-CA-C	-15.95	94.26	114.04
1	N	1124	ASN	N-CA-C	15.89	129.98	111.71
1	P	30	ALA	N-CA-C	-15.72	94.55	113.88
1	M	31	SER	N-CA-C	-15.71	92.03	112.93
1	P	957	VAL	N-CA-C	15.49	125.29	110.42
3	e	203	ALA	N-CA-C	-15.41	93.86	113.12
3	S	203	ALA	N-CA-C	-15.39	93.89	113.12
3	V	203	ALA	N-CA-C	-15.37	93.91	113.12
3	Y	203	ALA	N-CA-C	-15.36	93.92	113.12
1	G	523	GLU	N-CA-C	-15.29	94.66	113.01
4	o	97	THR	N-CA-C	-15.27	85.57	109.23
1	K	1266	ALA	N-CA-C	-15.24	91.87	113.21
1	K	1196	ILE	N-CA-C	-15.19	88.84	108.89
1	F	557	GLU	N-CA-C	-15.19	90.48	110.53
1	I	1323	ASP	CA-C-N	15.08	135.28	118.85
1	I	1323	ASP	C-N-CA	15.08	135.28	118.85
3	Y	199	ASP	N-CA-C	15.05	127.69	111.28
3	S	352	ILE	N-CA-C	-15.03	95.54	110.72
1	C	96	GLN	N-CA-C	14.84	127.54	111.36
1	L	1198	TYR	N-CA-C	-14.84	88.52	110.48
1	P	882	GLY	N-CA-C	-14.72	91.52	111.54
1	O	1124	ASN	N-CA-C	14.68	127.28	111.28
1	N	13	TYR	N-CA-C	-14.57	91.73	110.53
1	M	527	THR	CB-CA-C	-14.44	87.69	111.23

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	L	445	LYS	N-CA-C	-14.36	91.58	110.53
1	L	536	ASN	N-CA-C	-14.29	89.57	109.71
4	r	94	LEU	N-CA-C	-14.25	90.41	110.50
1	E	29	VAL	CB-CA-C	-14.24	93.04	110.84
1	K	1068	ARG	N-CA-C	14.19	126.26	111.07
1	O	920	THR	N-CA-C	-14.14	89.11	109.18
1	L	15	ALA	N-CA-C	-14.08	96.56	113.88
1	K	371	GLY	N-CA-C	-14.03	87.84	112.53
1	C	296	GLU	N-CA-C	14.03	128.14	110.61
1	I	485	ASN	CA-C-N	-13.99	105.29	119.56
1	I	485	ASN	C-N-CA	-13.99	105.29	119.56
1	O	529	GLU	N-CA-C	-13.97	96.72	114.04
1	E	786	ASN	N-CA-C	13.93	132.29	110.70
1	G	417	ALA	N-CA-C	13.92	126.46	111.28
1	B	757	ASP	N-CA-C	13.90	128.15	108.54
1	M	381	GLU	N-CA-C	-13.87	87.73	109.23
1	N	258	SER	N-CA-C	13.87	132.78	111.56
1	N	268	ASP	N-CA-C	13.79	128.44	112.72
1	H	916	ALA	N-CA-C	-13.77	91.63	110.35
1	P	384	ILE	N-CA-C	13.71	123.60	111.81
1	H	1199	PHE	N-CA-C	-13.70	88.57	107.88
1	N	386	ALA	N-CA-C	13.62	125.64	111.07
1	P	71	LEU	N-CA-C	-13.61	97.14	113.88
1	B	385	TYR	N-CA-C	13.57	126.16	111.36
1	O	1265	GLY	N-CA-C	-13.57	87.45	111.19
2	R	108	LEU	N-CA-C	13.45	125.94	111.28
2	X	108	LEU	N-CA-C	13.45	125.94	111.28
2	d	108	LEU	N-CA-C	13.44	125.93	111.28
2	U	108	LEU	N-CA-C	13.40	125.88	111.28
2	a	108	LEU	N-CA-C	13.38	125.87	111.28
4	o	32	ALA	N-CA-C	13.28	126.75	110.41
4	r	32	ALA	N-CA-C	13.28	126.75	110.41
4	s	32	ALA	N-CA-C	13.28	126.74	110.41
4	k	32	ALA	N-CA-C	13.26	126.72	110.41
4	m	32	ALA	N-CA-C	13.26	126.72	110.41
1	B	786	ASN	N-CA-C	13.26	131.25	110.70
4	p	32	ALA	N-CA-C	13.26	126.72	110.41
1	P	386	ALA	N-CA-C	13.25	125.73	111.28
4	g	32	ALA	N-CA-C	13.25	126.71	110.41
4	j	32	ALA	N-CA-C	13.25	126.70	110.41
4	q	32	ALA	N-CA-C	13.25	126.70	110.41
4	h	32	ALA	N-CA-C	13.24	126.69	110.41

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	l	32	ALA	N-CA-C	13.24	126.69	110.41
4	i	32	ALA	N-CA-C	13.23	126.69	110.41
4	n	32	ALA	N-CA-C	13.23	126.69	110.41
4	f	32	ALA	N-CA-C	13.23	126.68	110.41
4	t	32	ALA	N-CA-C	13.22	126.68	110.41
1	D	1266	ALA	N-CA-C	-13.22	95.83	112.88
1	B	1124	ASN	N-CA-C	13.17	128.61	112.54
1	P	965	ALA	N-CA-C	-13.15	86.70	109.06
1	H	786	ASN	N-CA-C	13.15	130.30	109.39
1	H	1124	ASN	N-CA-C	13.12	129.38	111.54
1	J	355	GLU	N-CA-C	-13.11	90.94	108.24
1	N	1254	ASP	N-CA-C	-13.10	95.95	112.72
1	G	306	TYR	N-CA-C	13.08	125.54	111.28
1	K	1279	ALA	CA-C-N	13.04	138.25	120.38
1	K	1279	ALA	C-N-CA	13.04	138.25	120.38
1	L	522	ALA	N-CA-C	-13.04	96.89	112.92
1	K	536	ASN	N-CA-C	-13.03	86.99	108.49
1	P	1266	ALA	N-CA-C	-13.00	96.73	112.59
1	L	466	LEU	N-CA-C	-13.00	93.01	110.55
1	D	921	ALA	N-CA-C	12.91	129.12	112.34
1	A	1266	ALA	N-CA-C	-12.90	93.51	113.89
1	K	292	PHE	N-CA-C	12.89	125.34	111.28
1	O	356	SER	N-CA-C	12.87	125.31	111.28
1	P	1124	ASN	N-CA-C	12.83	127.30	110.88
4	j	97	THR	N-CA-C	-12.81	88.52	109.40
1	D	16	ALA	N-CA-C	-12.73	96.43	114.12
1	L	527	THR	N-CA-C	-12.71	93.39	110.55
1	E	1349	GLY	N-CA-C	12.70	128.36	111.72
1	B	1083	HIS	N-CA-C	-12.67	91.61	110.24
1	M	146	GLU	N-CA-C	12.61	126.22	111.71
1	C	97	PHE	N-CA-C	12.61	125.66	110.91
3	e	254	TRP	N-CA-C	12.55	125.04	111.36
1	F	429	HIS	N-CA-C	12.55	128.40	110.07
1	A	382	LYS	N-CA-C	-12.55	96.24	112.93
3	Y	254	TRP	N-CA-C	12.54	125.03	111.36
2	a	31	VAL	N-CA-C	12.53	125.65	108.11
1	F	108	GLY	CA-C-N	12.50	132.44	119.19
1	F	108	GLY	C-N-CA	12.50	132.44	119.19
3	S	254	TRP	N-CA-C	12.50	124.98	111.36
3	b	254	TRP	N-CA-C	12.48	124.97	111.36
3	V	254	TRP	N-CA-C	12.47	124.95	111.36
1	D	1199	PHE	N-CA-C	-12.42	90.36	107.88

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	K	940	MET	N-CA-C	12.38	128.76	113.17
1	K	155	LEU	N-CA-C	-12.36	97.84	111.07
1	F	325	ALA	N-CA-C	12.35	124.47	111.14
1	M	940	MET	N-CA-C	12.33	124.80	111.36
1	A	429	HIS	N-CA-C	12.32	124.30	110.13
3	b	184	LEU	N-CA-C	12.30	126.39	111.02
1	L	13	TYR	N-CA-C	-12.29	94.30	110.53
1	N	1276	PHE	N-CA-C	12.28	124.74	111.36
1	C	17	MET	N-CA-C	-12.18	98.09	111.36
1	C	1276	PHE	N-CA-C	12.17	125.94	111.82
1	N	445	LYS	N-CA-C	-12.11	95.51	110.41
4	s	7	HIS	N-CA-C	-12.10	91.99	109.18
1	B	236	LYS	N-CA-C	-12.07	94.94	111.96
1	M	882	GLY	N-CA-C	-12.07	92.69	111.64
1	F	1115	VAL	N-CA-C	12.05	122.89	110.72
1	B	1314	PRO	CA-C-N	12.04	132.41	119.05
1	B	1314	PRO	C-N-CA	12.04	132.41	119.05
1	A	786	ASN	N-CA-C	12.02	128.50	109.39
1	F	1123	GLY	N-CA-C	12.02	125.75	112.29
1	C	533	GLN	CA-C-N	12.01	133.91	119.98
1	C	533	GLN	C-N-CA	12.01	133.91	119.98
1	B	1090	ASN	N-CA-C	11.97	123.88	111.07
1	G	243	ALA	N-CA-C	-11.96	99.21	114.04
1	J	400	LEU	N-CA-C	-11.96	90.22	108.99
1	M	1198	TYR	N-CA-C	-11.95	93.65	110.50
2	a	43	LEU	CA-C-N	-11.90	102.60	122.11
2	a	43	LEU	C-N-CA	-11.90	102.60	122.11
1	H	957	VAL	N-CA-C	11.87	121.81	110.42
1	L	1265	GLY	N-CA-C	-11.83	85.14	113.18
1	G	83	LYS	CA-C-N	-11.83	108.08	123.34
1	G	83	LYS	C-N-CA	-11.83	108.08	123.34
3	V	278	HIS	O-C-N	11.79	130.98	120.48
1	P	1194	THR	N-CA-C	-11.78	90.89	109.50
1	K	1264	ASN	N-CA-C	-11.76	92.10	109.63
4	r	102	VAL	N-CA-C	11.76	124.51	113.10
1	O	1108	ALA	N-CA-C	11.74	130.65	113.40
1	G	520	TRP	N-CA-C	-11.73	92.92	110.28
1	K	13	TYR	N-CA-C	-11.72	94.72	110.55
2	R	238	ASN	N-CA-C	-11.72	98.79	113.55
3	S	278	HIS	CA-C-N	11.71	134.47	119.84
3	S	278	HIS	C-N-CA	11.71	134.47	119.84
2	a	238	ASN	N-CA-C	-11.71	98.80	113.55

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	138	GLU	N-CA-C	-11.69	96.03	110.41
2	X	238	ASN	N-CA-C	-11.68	98.84	113.55
2	d	238	ASN	N-CA-C	-11.67	98.85	113.55
2	U	238	ASN	N-CA-C	-11.67	98.85	113.55
1	J	947	HIS	N-CA-C	11.66	128.16	112.30
1	A	1158	GLY	N-CA-C	-11.62	88.63	112.34
1	L	69	ARG	N-CA-C	11.61	124.02	111.36
1	B	271	GLY	N-CA-C	11.60	126.25	110.58
1	E	1120	THR	N-CA-C	-11.60	89.35	109.06
1	J	757	ASP	N-CA-C	11.58	123.90	111.28
3	S	275	HIS	N-CA-C	-11.57	97.75	112.90
1	J	463	HIS	N-CA-C	-11.56	93.19	110.07
1	P	444	GLY	N-CA-C	-11.56	97.74	112.54
1	B	919	ASN	N-CA-C	11.56	123.96	111.36
1	M	1280	ALA	N-CA-C	-11.54	96.41	112.45
2	R	12	ILE	N-CA-C	-11.53	96.27	108.96
1	E	302	VAL	CA-C-N	11.53	131.44	120.03
1	E	302	VAL	C-N-CA	11.53	131.44	120.03
1	M	917	GLY	N-CA-C	-11.53	91.21	111.62
1	K	558	LEU	N-CA-C	11.52	127.79	112.35
1	H	192	ALA	N-CA-C	11.51	124.15	109.65
1	C	1194	THR	N-CA-C	-11.48	89.54	109.06
4	l	7	HIS	N-CA-C	-11.47	91.97	109.41
4	n	7	HIS	N-CA-C	-11.47	91.98	109.41
4	r	7	HIS	N-CA-C	-11.47	91.98	109.41
1	D	786	ASN	N-CA-C	11.46	126.86	108.41
4	k	7	HIS	N-CA-C	-11.46	91.99	109.41
4	p	7	HIS	N-CA-C	-11.46	91.99	109.41
4	g	7	HIS	N-CA-C	-11.46	92.00	109.41
1	N	277	VAL	N-CA-C	-11.45	90.05	108.95
4	m	7	HIS	N-CA-C	-11.45	92.01	109.41
4	f	7	HIS	N-CA-C	-11.44	92.02	109.41
4	j	7	HIS	N-CA-C	-11.44	92.03	109.41
4	i	7	HIS	N-CA-C	-11.44	92.03	109.41
4	o	7	HIS	N-CA-C	-11.44	92.03	109.41
4	h	7	HIS	N-CA-C	-11.43	92.03	109.41
4	p	11	THR	N-CA-C	11.43	127.57	113.17
4	q	7	HIS	N-CA-C	-11.43	92.04	109.41
3	V	278	HIS	CA-C-N	11.42	134.11	119.84
3	V	278	HIS	C-N-CA	11.42	134.11	119.84
4	t	7	HIS	N-CA-C	-11.42	92.06	109.41
1	L	1224	ALA	N-CA-C	-11.37	86.59	110.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	O	526	MET	N-CA-C	-11.37	95.87	110.53
1	L	142	LEU	N-CA-C	-11.35	99.13	113.43
1	J	275	ASP	N-CA-C	11.31	123.36	111.14
1	K	1276	PHE	N-CA-C	11.29	123.34	111.14
2	T	106	VAL	N-CA-C	11.28	126.74	111.17
1	G	1204	ASN	N-CA-C	11.26	122.55	109.60
2	W	106	VAL	N-CA-C	11.26	126.70	111.17
1	K	882	GLY	N-CA-C	-11.24	89.39	111.31
1	P	526	MET	N-CA-C	-11.24	92.25	109.79
2	Q	106	VAL	N-CA-C	11.24	126.68	111.17
1	M	430	PRO	N-CA-C	11.23	127.90	113.86
1	B	429	HIS	N-CA-C	11.22	121.04	108.14
1	C	145	GLY	N-CA-C	-11.21	92.18	111.47
1	C	1312	LYS	N-CA-C	-11.18	95.77	110.53
1	N	484	ALA	N-CA-C	-11.18	92.97	109.63
1	P	1276	PHE	N-CA-C	11.17	124.77	111.82
1	C	15	ALA	N-CA-C	-11.16	93.96	110.48
1	L	1347	ARG	N-CA-C	-11.16	91.21	109.96
1	O	485	ASN	N-CA-C	-11.14	96.11	109.93
1	M	1124	ASN	N-CA-C	11.14	126.68	113.20
3	S	278	HIS	O-C-N	11.14	130.39	120.48
1	B	753	ASP	N-CA-C	11.13	126.60	111.24
4	s	97	THR	N-CA-C	-11.12	89.19	108.20
1	I	69	ARG	N-CA-C	11.11	123.47	111.36
2	U	12	ILE	CA-C-N	-11.07	106.00	119.84
2	U	12	ILE	C-N-CA	-11.07	106.00	119.84
3	Y	448	PRO	N-CA-C	-11.07	93.98	111.03
4	t	96	ARG	N-CA-C	-11.06	97.08	112.45
1	N	1280	ALA	N-CA-C	-11.06	98.09	111.69
1	N	1222	VAL	N-CA-C	-11.04	92.33	109.78
1	D	529	GLU	N-CA-C	-11.03	87.31	110.80
1	H	820	PHE	N-CA-C	11.02	123.05	111.14
4	n	87	TRP	N-CA-C	-11.02	99.27	111.28
2	d	12	ILE	CA-C-N	-11.02	106.07	119.84
2	d	12	ILE	C-N-CA	-11.02	106.07	119.84
4	k	76	GLN	N-CA-C	-11.01	90.21	108.82
4	m	87	TRP	N-CA-C	-11.01	99.28	111.28
3	V	184	LEU	N-CA-C	11.01	126.43	111.24
4	h	87	TRP	N-CA-C	-11.01	99.28	111.28
4	o	87	TRP	N-CA-C	-11.01	99.28	111.28
4	f	87	TRP	N-CA-C	-11.00	99.29	111.28
1	M	528	ALA	CA-C-N	11.00	139.39	120.58

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	M	528	ALA	C-N-CA	11.00	139.39	120.58
4	i	87	TRP	N-CA-C	-11.00	99.29	111.28
4	j	76	GLN	N-CA-C	-11.00	90.24	108.82
4	k	87	TRP	N-CA-C	-10.99	99.30	111.28
4	q	76	GLN	N-CA-C	-10.99	90.24	108.82
4	r	76	GLN	N-CA-C	-10.99	90.24	108.82
4	s	76	GLN	N-CA-C	-10.99	90.25	108.82
4	h	76	GLN	N-CA-C	-10.99	90.25	108.82
1	M	16	ALA	N-CA-C	-10.99	96.03	110.53
4	o	76	GLN	N-CA-C	-10.99	90.25	108.82
3	S	184	LEU	N-CA-C	10.98	126.40	111.24
4	g	76	GLN	N-CA-C	-10.98	90.25	108.82
4	l	76	GLN	N-CA-C	-10.98	90.26	108.82
3	e	184	LEU	N-CA-C	10.98	126.40	111.24
4	i	76	GLN	N-CA-C	-10.98	90.26	108.82
4	f	76	GLN	N-CA-C	-10.98	90.26	108.82
4	m	76	GLN	N-CA-C	-10.98	90.26	108.82
4	p	76	GLN	N-CA-C	-10.98	90.27	108.82
4	j	87	TRP	N-CA-C	-10.98	99.32	111.28
3	Y	184	LEU	N-CA-C	10.97	126.38	111.24
4	p	87	TRP	N-CA-C	-10.97	99.32	111.28
4	t	87	TRP	N-CA-C	-10.97	99.32	111.28
1	J	267	ALA	CA-C-N	-10.97	103.68	122.66
1	J	267	ALA	C-N-CA	-10.97	103.68	122.66
4	g	87	TRP	N-CA-C	-10.96	99.33	111.28
4	n	76	GLN	N-CA-C	-10.96	90.30	108.82
4	q	87	TRP	N-CA-C	-10.96	99.34	111.28
1	P	1221	ASP	N-CA-C	10.94	123.29	111.36
4	l	87	TRP	N-CA-C	-10.94	99.36	111.28
1	G	760	GLY	N-CA-C	10.90	129.85	115.36
3	Y	439	THR	N-CA-C	10.88	124.21	110.61
1	N	485	ASN	N-CA-C	-10.88	97.09	109.60
2	R	232	ALA	N-CA-C	10.87	126.54	113.28
4	f	18	ARG	N-CA-C	-10.87	94.19	110.28
1	J	234	LEU	CB-CA-C	-10.85	93.65	110.04
1	J	1347	ARG	N-CA-C	-10.85	92.86	109.24
3	V	41	ILE	N-CA-C	-10.84	92.40	109.20
4	s	99	SER	N-CA-C	-10.82	98.39	108.13
1	G	467	MET	N-CA-C	10.81	123.07	111.28
2	X	232	ALA	N-CA-C	10.80	126.55	113.16
1	G	1228	ASP	N-CA-C	10.79	122.62	111.07
1	J	915	ASP	N-CA-C	-10.79	96.30	110.43

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	f	19	ALA	N-CA-C	-10.77	87.86	110.80
2	a	232	ALA	N-CA-C	10.76	126.50	113.16
2	a	31	VAL	CA-C-N	-10.76	108.84	122.93
2	a	31	VAL	C-N-CA	-10.76	108.84	122.93
1	O	1347	ARG	N-CA-C	-10.75	88.88	108.02
1	M	355	GLU	N-CA-C	10.75	122.75	111.14
2	d	232	ALA	N-CA-C	10.75	126.49	113.16
2	U	232	ALA	N-CA-C	10.74	126.47	113.16
1	E	15	ALA	N-CA-C	-10.73	100.30	113.50
1	P	528	ALA	N-CA-C	-10.73	84.31	107.49
1	E	1198	TYR	N-CA-C	-10.73	92.70	109.76
1	O	1350	GLU	N-CA-C	-10.72	100.92	112.93
1	F	820	PHE	N-CA-C	10.71	123.04	111.36
1	L	87	LEU	N-CA-C	-10.71	91.94	108.96
1	L	420	ALA	N-CA-C	10.70	122.52	111.07
1	J	536	ASN	N-CA-C	10.69	125.71	111.28
1	L	355	GLU	N-CA-C	10.69	126.80	107.99
1	L	477	ASN	N-CA-C	10.68	124.00	111.71
1	L	1124	ASN	N-CA-C	10.66	126.38	113.16
2	c	316	ARG	N-CA-C	10.65	122.89	111.28
1	N	70	PHE	CB-CA-C	-10.64	93.88	111.23
1	B	1194	THR	N-CA-C	-10.63	91.57	108.90
1	G	1267	SER	CA-C-N	-10.62	106.56	119.84
1	G	1267	SER	C-N-CA	-10.62	106.56	119.84
1	P	291	SER	N-CA-C	10.62	122.93	111.36
2	Q	316	ARG	N-CA-C	10.61	122.84	111.28
1	M	484	ALA	N-CA-C	-10.61	96.85	110.53
1	J	1265	GLY	N-CA-C	-10.60	98.97	112.54
3	V	448	PRO	N-CA-C	-10.59	94.00	111.26
2	T	316	ARG	N-CA-C	10.59	122.82	111.28
2	W	316	ARG	N-CA-C	10.59	122.82	111.28
2	a	286	GLY	CA-C-N	10.58	134.82	120.44
2	a	286	GLY	C-N-CA	10.58	134.82	120.44
1	N	320	LEU	N-CA-C	-10.57	95.76	110.35
1	G	1182	ASP	N-CA-C	10.55	125.93	108.73
2	d	286	GLY	CA-C-N	10.55	134.79	120.44
2	d	286	GLY	C-N-CA	10.55	134.79	120.44
2	R	286	GLY	CA-C-N	10.55	134.79	120.44
2	R	286	GLY	C-N-CA	10.55	134.79	120.44
2	X	286	GLY	CA-C-N	10.53	134.76	120.44
2	X	286	GLY	C-N-CA	10.53	134.76	120.44
3	b	293	PHE	N-CA-C	-10.50	99.91	111.36

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	U	286	GLY	CA-C-N	10.50	134.72	120.44
2	U	286	GLY	C-N-CA	10.50	134.72	120.44
1	N	1264	ASN	N-CA-C	-10.48	94.42	109.31
1	A	757	ASP	N-CA-C	10.44	122.66	111.28
1	I	529	GLU	N-CA-C	-10.43	88.59	110.80
1	J	1332	TYR	N-CA-C	10.40	122.83	109.93
1	C	800	HIS	N-CA-C	10.37	122.16	111.07
1	K	1218	LYS	N-CA-C	-10.36	95.56	110.59
1	B	153	ILE	N-CA-C	10.36	120.27	110.53
3	b	274	THR	N-CA-C	10.34	130.62	110.56
1	J	51	ASP	N-CA-C	-10.34	91.29	108.76
1	J	446	ASP	N-CA-C	-10.33	88.81	110.80
3	e	274	THR	N-CA-C	10.32	130.59	110.56
3	Y	274	THR	N-CA-C	10.29	130.53	110.56
3	V	274	THR	N-CA-C	10.28	130.50	110.56
1	P	429	HIS	N-CA-C	10.28	125.80	110.39
1	F	1113	ALA	N-CA-C	10.26	122.55	111.36
1	G	536	ASN	N-CA-C	-10.26	88.95	110.80
1	O	429	HIS	N-CA-C	10.26	121.93	110.13
1	P	292	PHE	N-CA-C	10.24	126.29	112.68
1	M	1200	ARG	N-CA-C	-10.23	97.44	111.87
4	i	66	VAL	N-CA-C	10.22	120.23	110.42
1	K	941	ALA	CA-C-N	-10.21	109.55	119.76
1	K	941	ALA	C-N-CA	-10.21	109.55	119.76
4	o	66	VAL	N-CA-C	10.21	120.22	110.42
4	f	66	VAL	N-CA-C	10.20	120.22	110.42
4	m	66	VAL	N-CA-C	10.20	120.21	110.42
1	N	1226	MET	N-CA-C	10.20	122.48	111.36
1	I	429	HIS	N-CA-C	10.19	124.15	110.08
4	r	66	VAL	N-CA-C	10.19	120.21	110.42
4	s	66	VAL	N-CA-C	10.20	120.21	110.42
4	k	66	VAL	N-CA-C	10.18	120.19	110.42
4	l	66	VAL	N-CA-C	10.17	120.19	110.42
4	t	66	VAL	N-CA-C	10.17	120.19	110.42
4	h	66	VAL	N-CA-C	10.17	120.18	110.42
4	n	66	VAL	N-CA-C	10.17	120.18	110.42
4	q	11	THR	N-CA-C	10.16	132.45	110.80
2	Z	106	VAL	N-CA-C	10.16	126.67	112.35
4	q	66	VAL	N-CA-C	10.14	120.16	110.42
1	M	193	PRO	CA-C-O	-10.14	112.72	120.73
4	g	66	VAL	N-CA-C	10.13	120.14	110.42
1	L	1203	CYS	N-CA-C	10.12	124.12	110.35

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	p	66	VAL	N-CA-C	10.12	120.14	110.42
4	j	66	VAL	N-CA-C	10.12	120.14	110.42
1	K	444	GLY	N-CA-C	-10.10	97.05	112.51
1	G	821	SER	N-CA-C	-10.10	92.15	108.41
1	F	882	GLY	N-CA-C	-10.10	89.24	113.18
1	F	1265	GLY	N-CA-C	-10.08	89.28	113.18
1	M	51	ASP	N-CA-C	10.07	125.15	108.73
1	I	35	LEU	N-CA-C	-10.06	101.78	114.56
1	O	1267	SER	N-CA-C	-10.06	93.31	109.40
1	G	533	GLN	CA-C-N	10.04	130.00	119.85
1	G	533	GLN	C-N-CA	10.04	130.00	119.85
1	I	1194	THR	N-CA-C	-10.04	90.91	108.69
3	e	239	VAL	N-CA-C	-10.04	93.25	107.80
3	b	239	VAL	N-CA-C	-10.03	93.26	107.80
3	V	239	VAL	N-CA-C	-10.02	93.27	107.80
1	F	324	LYS	N-CA-C	10.01	125.04	109.52
3	S	239	VAL	N-CA-C	-10.01	93.28	107.80
1	L	356	SER	N-CA-C	10.01	122.27	111.36
3	Y	239	VAL	N-CA-C	-9.99	93.32	107.80
3	b	431	ASP	N-CA-C	9.97	125.73	113.17
1	G	1280	ALA	N-CA-C	-9.96	99.44	111.69
1	O	395	VAL	N-CA-C	-9.96	92.99	108.23
1	G	210	LEU	N-CA-C	9.95	124.27	109.24
1	M	944	HIS	N-CA-C	-9.93	96.50	110.50
3	Y	419	TYR	N-CA-C	9.91	122.08	111.28
1	K	537	ALA	N-CA-C	-9.90	101.21	113.18
1	P	15	ALA	N-CA-C	-9.90	100.57	111.36
1	L	529	GLU	N-CA-C	-9.89	100.86	113.72
4	t	89	ARG	N-CA-C	9.89	122.20	109.64
1	K	1224	ALA	N-CA-C	-9.89	99.77	112.93
1	P	754	CYS	N-CA-C	-9.88	92.74	109.24
1	O	527	THR	N-CA-C	-9.87	97.80	110.53
1	O	484	ALA	N-CA-C	-9.84	95.34	109.31
1	E	484	ALA	N-CA-C	-9.84	98.31	110.41
1	H	447	HIS	CA-C-N	-9.84	108.08	122.93
1	H	447	HIS	C-N-CA	-9.84	108.08	122.93
1	M	1086	GLY	N-CA-C	-9.78	93.94	111.15
1	L	1279	ALA	N-CA-C	-9.78	100.90	112.92
1	H	1349	GLY	N-CA-C	9.76	121.22	111.95
1	M	306	TYR	N-CA-C	9.75	124.37	110.23
1	G	297	ASP	N-CA-C	9.75	125.45	112.88
1	B	272	ARG	CA-C-N	9.75	129.82	119.78

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	272	ARG	C-N-CA	9.75	129.82	119.78
1	J	1068	ARG	N-CA-C	9.73	121.89	111.28
1	J	235	GLY	N-CA-C	-9.72	90.15	113.18
3	S	282	PRO	N-CA-C	9.71	130.48	112.33
1	N	1201	ARG	N-CA-C	-9.70	92.42	108.82
1	L	526	MET	N-CA-C	-9.64	97.80	110.53
2	c	177	ASN	N-CA-C	9.63	121.78	111.28
1	L	1280	ALA	N-CA-C	-9.63	100.86	111.36
1	I	15	ALA	N-CA-C	-9.61	99.09	112.45
1	I	321	VAL	N-CA-C	9.60	120.42	110.72
1	P	557	GLU	N-CA-C	-9.60	96.96	110.50
1	B	37	ASP	N-CA-C	-9.60	100.77	111.14
4	r	99	SER	N-CA-C	9.58	125.81	108.94
1	I	267	ALA	N-CA-C	-9.57	93.64	108.76
1	M	465	SER	N-CA-C	-9.57	101.73	113.50
3	e	36	VAL	N-CA-C	9.55	122.51	109.80
1	O	536	ASN	N-CA-C	-9.52	92.78	108.49
1	O	918	ALA	N-CA-C	9.51	122.85	111.82
1	A	32	HIS	N-CA-C	-9.49	98.74	110.41
1	N	69	ARG	N-CA-C	9.49	126.11	113.97
1	G	788	GLN	N-CA-C	9.48	124.23	110.10
1	C	306	TYR	N-CA-C	9.48	123.98	110.23
1	P	966	GLY	N-CA-C	-9.48	94.87	111.46
1	M	71	LEU	N-CA-C	-9.48	101.40	113.72
1	N	1219	GLU	CB-CA-C	-9.47	91.57	110.42
1	J	798	ARG	CA-C-N	-9.47	108.00	119.84
1	J	798	ARG	C-N-CA	-9.47	108.00	119.84
1	C	1119	VAL	CB-CA-C	-9.47	95.76	111.29
4	n	11	THR	N-CA-C	9.46	130.95	110.80
4	h	11	THR	N-CA-C	9.45	130.93	110.80
4	o	11	THR	N-CA-C	9.45	130.93	110.80
1	J	882	GLY	N-CA-C	-9.45	94.52	111.15
1	K	1194	THR	N-CA-C	-9.45	93.50	108.90
4	l	11	THR	N-CA-C	9.45	130.92	110.80
4	g	11	THR	N-CA-C	9.44	130.90	110.80
4	i	11	THR	N-CA-C	9.44	130.91	110.80
1	I	322	MET	N-CA-C	-9.44	101.89	113.50
4	k	11	THR	N-CA-C	9.44	130.90	110.80
1	F	521	VAL	N-CA-C	-9.43	104.28	113.53
4	j	11	THR	N-CA-C	9.43	130.89	110.80
1	C	266	HIS	N-CA-C	9.43	121.64	111.36
4	f	11	THR	N-CA-C	9.43	130.88	110.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	m	11	THR	N-CA-C	9.43	130.88	110.80
1	G	275	ASP	N-CA-C	9.42	124.09	112.59
1	P	558	LEU	N-CA-C	9.41	125.54	112.75
3	Y	297	ASP	N-CA-C	-9.40	95.78	109.59
1	E	429	HIS	N-CA-C	9.39	123.78	110.07
1	E	29	VAL	N-CA-C	9.38	123.65	113.43
3	S	297	ASP	N-CA-C	-9.38	95.81	109.59
3	e	297	ASP	N-CA-C	-9.38	95.81	109.59
1	I	258	SER	N-CA-C	-9.37	96.45	109.95
1	G	75	LEU	N-CA-C	9.37	124.25	113.01
3	b	279	PRO	N-CA-C	-9.37	93.18	112.47
1	B	51	ASP	N-CA-C	-9.36	96.72	109.54
1	A	214	VAL	N-CA-C	-9.35	103.77	111.81
3	V	297	ASP	N-CA-C	-9.35	95.85	109.59
2	a	42	ALA	N-CA-C	-9.33	98.50	110.53
1	H	15	ALA	N-CA-C	-9.31	100.89	114.39
1	J	529	GLU	N-CA-C	-9.31	102.43	113.88
1	G	305	THR	N-CA-C	9.29	124.18	109.50
1	O	1276	PHE	N-CA-C	9.29	121.48	111.36
1	O	294	LYS	N-CA-C	-9.27	102.16	112.72
1	O	35	LEU	N-CA-C	-9.27	99.71	113.61
1	J	403	VAL	N-CA-C	-9.25	93.69	108.95
1	B	527	THR	N-CA-C	-9.24	96.84	110.52
1	M	519	ARG	N-CA-C	9.23	121.42	111.36
1	D	1158	GLY	N-CA-C	-9.23	93.52	112.34
1	M	43	ARG	N-CA-C	9.23	124.97	111.96
3	V	199	ASP	N-CA-C	9.22	124.06	109.39
1	O	447	HIS	N-CA-C	9.22	123.83	112.58
1	N	753	ASP	N-CA-C	9.21	124.42	112.26
1	A	1253	GLY	N-CA-C	-9.20	91.38	113.18
1	K	1198	TYR	N-CA-C	-9.18	101.28	111.28
1	C	753	ASP	N-CA-C	9.17	124.11	111.17
1	J	231	SER	N-CA-C	-9.15	93.96	109.24
2	a	72	PRO	N-CA-C	9.15	125.93	111.38
1	B	283	ALA	N-CA-C	-9.14	99.07	111.96
1	M	1349	GLY	N-CA-C	-9.14	98.13	110.56
1	H	882	GLY	N-CA-C	-9.14	97.29	111.64
1	N	378	GLU	N-CA-C	9.14	122.77	108.79
1	F	101	GLN	CA-C-N	9.14	129.82	120.14
1	F	101	GLN	C-N-CA	9.14	129.82	120.14
1	P	304	VAL	CB-CA-C	-9.10	96.36	111.29
1	K	1348	ASP	N-CA-C	9.09	120.80	111.07

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	L	882	GLY	N-CA-C	-9.09	91.63	113.18
1	O	1315	PRO	N-CA-C	9.09	125.92	113.65
1	N	1224	ALA	N-CA-C	-9.09	91.44	110.80
1	H	484	ALA	N-CA-C	9.08	123.07	112.72
1	B	1224	ALA	N-CA-C	-9.08	91.46	110.80
1	K	427	PRO	N-CA-C	9.07	126.14	113.53
1	N	384	ILE	N-CA-C	9.07	118.79	111.62
1	J	49	LEU	N-CA-C	-9.06	95.81	109.86
1	K	1106	TYR	N-CA-C	9.04	123.71	111.24
1	N	918	ALA	N-CA-C	-9.02	91.59	110.80
1	E	304	VAL	CB-CA-C	-9.01	96.52	111.29
1	B	234	LEU	N-CA-C	-8.98	95.50	109.25
1	J	300	ALA	N-CA-C	8.97	122.66	110.55
1	C	47	ASN	N-CA-C	8.97	121.06	111.28
1	E	1125	LEU	N-CA-C	8.97	120.60	109.57
1	M	917	GLY	CA-C-O	-8.96	113.30	121.18
2	X	118	PRO	CA-C-N	-8.95	110.16	119.83
2	X	118	PRO	C-N-CA	-8.95	110.16	119.83
3	e	448	PRO	N-CA-C	-8.95	94.03	112.47
2	U	118	PRO	CA-C-N	-8.95	110.17	119.83
2	U	118	PRO	C-N-CA	-8.95	110.17	119.83
1	H	267	ALA	N-CA-C	8.94	123.01	108.34
1	O	483	ALA	N-CA-C	-8.94	97.89	110.50
1	E	536	ASN	N-CA-C	-8.94	93.74	108.49
1	E	1313	ARG	CA-C-N	8.94	129.59	120.38
1	E	1313	ARG	C-N-CA	8.94	129.59	120.38
1	N	921	ALA	N-CA-C	8.94	122.19	111.82
3	S	448	PRO	N-CA-C	-8.94	94.06	112.47
2	a	118	PRO	CA-C-N	-8.94	110.18	119.83
2	a	118	PRO	C-N-CA	-8.94	110.18	119.83
1	I	1104	VAL	N-CA-C	8.93	119.74	110.72
1	A	1070	SER	N-CA-C	-8.93	102.30	113.55
2	d	118	PRO	CA-C-N	-8.93	110.19	119.83
2	d	118	PRO	C-N-CA	-8.93	110.19	119.83
1	L	140	ILE	CB-CA-C	-8.92	98.97	111.28
1	L	294	LYS	N-CA-C	-8.92	93.00	108.52
1	P	357	ALA	N-CA-C	-8.92	92.50	108.47
1	M	536	ASN	N-CA-C	-8.91	89.04	107.67
1	O	816	LEU	N-CA-C	8.91	121.07	111.36
1	I	28	GLU	N-CA-C	-8.90	94.08	108.41
2	R	118	PRO	CA-C-N	-8.90	110.22	119.83
2	R	118	PRO	C-N-CA	-8.90	110.22	119.83

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	I	1227	TYR	N-CA-C	8.89	124.13	113.28
1	L	1067	GLU	N-CA-C	8.89	122.49	109.69
1	B	1267	SER	CA-C-N	8.88	128.61	119.64
1	B	1267	SER	C-N-CA	8.88	128.61	119.64
1	M	69	ARG	N-CA-C	8.87	122.60	111.69
1	B	445	LYS	N-CA-C	-8.87	96.89	110.10
4	t	76	GLN	N-CA-C	-8.86	90.22	109.81
1	A	522	ALA	N-CA-C	-8.86	102.03	112.92
1	H	429	HIS	N-CA-C	8.84	123.66	110.39
1	N	1319	GLU	N-CA-C	-8.83	93.85	108.34
1	E	417	ALA	N-CA-C	8.83	120.98	111.36
1	K	753	ASP	N-CA-C	8.82	123.61	111.17
1	N	1203	CYS	N-CA-C	8.82	122.82	109.41
1	N	1160	ALA	N-CA-C	-8.81	97.45	110.23
1	B	71	LEU	N-CA-C	-8.81	101.76	111.36
1	I	1292	LEU	N-CA-C	8.81	120.88	111.28
1	J	144	THR	N-CA-C	-8.80	95.05	109.40
1	K	306	TYR	N-CA-C	8.80	123.16	109.96
1	O	917	GLY	N-CA-C	-8.80	92.32	113.18
1	J	185	LEU	CA-C-N	-8.80	109.00	120.44
1	J	185	LEU	C-N-CA	-8.80	109.00	120.44
1	K	305	THR	N-CA-C	8.79	122.34	109.69
1	N	259	VAL	N-CA-CB	8.77	125.70	111.23
1	M	760	GLY	N-CA-C	-8.77	100.83	112.14
1	D	356	SER	N-CA-C	8.75	124.01	113.16
1	D	429	HIS	N-CA-C	8.74	129.13	109.81
1	J	1222	VAL	N-CA-C	-8.74	98.17	109.80
1	E	920	THR	N-CA-C	8.74	121.59	108.31
1	F	1194	THR	N-CA-C	-8.74	93.99	108.76
1	L	429	HIS	N-CA-C	8.73	122.06	110.36
1	E	919	ASN	N-CA-C	8.73	120.57	111.14
1	K	957	VAL	N-CA-C	8.72	120.83	111.77
4	r	11	THR	N-CA-C	8.71	129.36	110.80
1	C	1012	GLU	N-CA-C	8.71	120.85	111.36
1	I	1123	GLY	N-CA-C	8.70	133.81	113.18
3	Y	442	PHE	N-CA-C	-8.70	96.75	109.11
1	M	1224	ALA	N-CA-C	-8.68	102.61	113.55
1	G	1194	THR	N-CA-C	-8.68	94.75	108.90
3	b	135	ARG	N-CA-C	8.67	122.73	110.50
1	K	1199	PHE	N-CA-C	-8.67	98.39	110.35
1	L	563	VAL	CA-C-N	-8.67	113.42	119.66
1	L	563	VAL	C-N-CA	-8.67	113.42	119.66

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	I	445	LYS	N-CA-C	-8.66	97.67	110.23
3	V	303	GLY	N-CA-C	8.65	123.95	110.71
4	r	87	TRP	N-CA-C	-8.65	101.85	111.28
1	L	1317	CYS	N-CA-C	8.65	122.70	110.50
1	G	409	PHE	N-CA-C	-8.64	95.16	109.07
1	A	236	LYS	N-CA-C	-8.64	93.80	110.56
1	J	74	GLY	N-CA-C	-8.63	102.37	112.73
1	P	426	ALA	N-CA-C	-8.63	97.50	110.01
3	e	432	SER	N-CA-C	8.61	128.84	109.81
1	C	1280	ALA	N-CA-C	-8.60	92.48	110.80
1	M	757	ASP	N-CA-C	-8.59	97.80	110.52
3	S	432	SER	N-CA-C	8.59	128.80	109.81
3	V	432	SER	N-CA-C	8.59	128.78	109.81
2	d	61	LEU	N-CA-C	-8.59	102.98	113.97
1	M	945	LEU	CB-CA-C	-8.58	93.35	110.42
1	I	555	ASP	N-CA-C	8.57	123.20	111.54
1	G	798	ARG	CA-C-N	-8.57	109.12	119.84
1	G	798	ARG	C-N-CA	-8.57	109.12	119.84
2	X	61	LEU	N-CA-C	-8.57	103.00	113.97
1	M	1218	LYS	N-CA-C	-8.57	96.23	109.52
1	P	555	ASP	N-CA-C	8.56	122.48	112.72
1	E	271	GLY	N-CA-C	8.56	126.74	115.36
1	N	306	TYR	N-CA-C	8.55	122.94	110.28
3	Y	432	SER	N-CA-C	8.55	128.71	109.81
3	b	280	GLY	N-CA-C	-8.55	92.91	113.18
2	a	61	LEU	N-CA-C	-8.55	103.03	113.97
2	U	61	LEU	N-CA-C	-8.54	103.03	113.97
3	e	278	HIS	O-C-N	8.54	128.08	120.48
3	Y	284	SER	N-CA-C	8.54	122.35	108.34
1	J	1206	ARG	N-CA-C	-8.54	99.52	110.53
1	O	465	SER	N-CA-C	-8.54	103.00	113.50
2	R	61	LEU	N-CA-C	-8.54	103.04	113.97
1	A	430	PRO	N-CA-C	8.53	124.52	113.86
1	F	430	PRO	N-CA-C	8.52	124.51	114.03
1	A	359	GLN	N-CA-C	8.52	126.16	108.53
1	K	11	TYR	N-CA-C	-8.52	96.75	110.20
2	a	27	CYS	N-CA-C	8.52	123.23	113.01
1	O	448	GLN	N-CA-C	-8.51	95.37	109.07
2	d	266	GLU	CA-C-N	-8.51	108.89	122.76
2	d	266	GLU	C-N-CA	-8.51	108.89	122.76
2	R	266	GLU	CA-C-N	-8.51	108.90	122.76
2	R	266	GLU	C-N-CA	-8.51	108.90	122.76

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	U	266	GLU	CA-C-N	-8.51	108.89	122.76
2	U	266	GLU	C-N-CA	-8.51	108.89	122.76
3	b	167	ALA	CA-C-N	8.51	137.01	121.70
3	b	167	ALA	C-N-CA	8.51	137.01	121.70
1	M	1161	GLN	C-N-CD	-8.50	90.14	125.00
1	O	1107	THR	N-CA-C	-8.50	96.34	109.52
1	I	265	THR	N-CA-C	-8.50	103.04	113.15
2	a	266	GLU	CA-C-N	-8.50	108.91	122.76
2	a	266	GLU	C-N-CA	-8.50	108.91	122.76
1	G	1123	GLY	N-CA-C	8.48	122.10	110.56
1	E	537	ALA	N-CA-C	-8.48	102.83	113.01
3	V	420	ALA	N-CA-C	8.48	122.94	111.24
1	G	304	VAL	N-CA-C	-8.48	103.50	113.42
1	C	882	GLY	N-CA-C	-8.48	93.09	113.18
3	S	420	ALA	N-CA-C	8.47	122.94	111.24
1	I	512	ARG	N-CA-C	-8.47	101.95	113.30
1	O	520	TRP	CA-C-N	8.47	137.21	121.97
1	O	520	TRP	C-N-CA	8.47	137.21	121.97
2	X	266	GLU	CA-C-N	-8.46	108.97	122.76
2	X	266	GLU	C-N-CA	-8.46	108.97	122.76
1	J	427	PRO	N-CA-C	8.46	129.89	112.47
1	D	1200	ARG	N-CA-C	-8.45	101.82	113.56
3	Y	278	HIS	O-C-N	8.45	128.00	120.48
1	C	960	VAL	N-CA-C	8.43	118.46	110.53
1	J	306	TYR	N-CA-C	8.43	122.46	110.23
1	O	1348	ASP	N-CA-C	-8.42	92.86	110.80
2	a	73	ALA	N-CA-C	8.42	121.87	109.07
1	B	1091	PHE	N-CA-C	8.41	122.98	111.54
1	E	267	ALA	N-CA-C	8.40	123.27	109.24
1	O	13	TYR	N-CA-C	-8.40	98.09	110.52
1	B	59	GLY	N-CA-C	-8.39	104.33	115.32
1	D	882	GLY	N-CA-C	-8.38	93.31	113.18
1	B	240	ARG	CA-C-N	-8.38	110.09	122.41
1	B	240	ARG	C-N-CA	-8.38	110.09	122.41
1	L	415	ARG	N-CA-C	8.38	121.53	109.71
1	N	1198	TYR	N-CA-C	-8.38	92.23	107.98
1	A	520	TRP	N-CA-C	8.36	122.58	112.38
1	I	570	ALA	N-CA-C	-8.36	96.66	109.95
1	A	1219	GLU	N-CA-C	8.36	128.60	110.80
1	I	538	ASN	N-CA-C	-8.36	101.15	112.94
1	I	916	ALA	N-CA-C	-8.36	97.42	109.96
3	b	433	PRO	CA-C-N	-8.35	109.61	121.72

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	b	433	PRO	C-N-CA	-8.35	109.61	121.72
1	A	1086	GLY	CA-C-N	-8.35	114.03	122.63
1	A	1086	GLY	C-N-CA	-8.35	114.03	122.63
1	J	61	TYR	N-CA-C	8.34	122.68	109.50
3	S	301	CYS	N-CA-C	-8.34	102.19	111.28
1	I	820	PHE	N-CA-C	8.34	120.45	111.36
1	O	427	PRO	N-CA-C	8.34	126.17	113.75
1	J	1224	ALA	N-CA-C	-8.33	93.05	110.80
1	M	298	THR	N-CA-C	-8.33	96.18	109.59
1	E	445	LYS	N-CA-C	-8.32	99.03	110.35
1	N	1194	THR	N-CA-C	-8.31	94.93	109.06
1	H	269	THR	N-CA-C	-8.31	96.70	109.24
1	M	378	GLU	N-CA-C	8.31	122.62	109.50
3	S	433	PRO	CA-C-N	-8.31	109.67	121.72
3	S	433	PRO	C-N-CA	-8.31	109.67	121.72
3	e	433	PRO	CA-C-N	-8.30	109.68	121.72
3	e	433	PRO	C-N-CA	-8.30	109.68	121.72
3	V	433	PRO	CA-C-N	-8.29	109.71	121.72
3	V	433	PRO	C-N-CA	-8.29	109.71	121.72
3	Y	161	TRP	N-CA-C	8.28	119.92	111.07
2	a	33	PHE	N-CA-C	-8.28	96.23	109.39
1	L	1253	GLY	CA-C-N	8.27	131.19	120.44
1	L	1253	GLY	C-N-CA	8.27	131.19	120.44
1	G	832	PHE	N-CA-C	8.27	120.37	111.36
1	D	430	PRO	N-CA-C	8.25	124.38	113.57
1	G	190	GLU	N-CA-C	-8.25	102.24	111.07
1	E	1347	ARG	N-CA-C	-8.24	94.83	108.76
1	M	444	GLY	N-CA-C	-8.24	99.58	112.85
1	N	1123	GLY	CA-C-N	8.22	132.12	120.28
1	N	1123	GLY	C-N-CA	8.22	132.12	120.28
1	M	786	ASN	N-CA-C	8.22	122.93	113.15
1	K	1124	ASN	CA-C-N	-8.22	107.46	121.76
1	K	1124	ASN	C-N-CA	-8.22	107.46	121.76
1	I	29	VAL	N-CA-C	8.21	119.02	110.72
1	O	444	GLY	N-CA-C	-8.21	101.49	112.82
1	A	509	TRP	N-CA-C	8.21	121.84	112.57
4	s	87	TRP	N-CA-C	-8.19	102.44	111.36
1	G	823	GLY	CA-C-N	-8.18	111.03	123.14
1	G	823	GLY	C-N-CA	-8.18	111.03	123.14
1	D	1264	ASN	N-CA-C	-8.18	98.97	110.50
1	G	1183	ALA	N-CA-C	-8.16	96.46	109.59
4	r	96	ARG	N-CA-C	-8.15	93.44	110.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	L	306	TYR	N-CA-C	8.15	123.28	110.17
1	A	536	ASN	N-CA-C	-8.14	93.45	110.80
1	C	90	MET	N-CA-C	8.14	120.15	111.28
1	K	805	TRP	N-CA-C	-8.13	102.37	111.07
1	O	1346	ALA	N-CA-C	8.12	121.97	110.68
4	l	28	ALA	N-CA-C	8.12	119.76	111.07
1	H	414	GLU	N-CA-C	8.12	121.23	111.82
1	I	306	TYR	N-CA-C	8.12	122.00	110.23
1	P	123	VAL	N-CA-C	8.11	121.55	108.97
4	o	28	ALA	N-CA-C	8.10	119.73	111.07
1	F	17	MET	N-CA-C	-8.09	102.17	112.93
4	j	28	ALA	N-CA-C	8.08	119.72	111.07
4	n	28	ALA	N-CA-C	8.08	119.71	111.07
1	D	1219	GLU	CB-CA-C	-8.07	94.36	110.42
3	Y	278	HIS	CA-C-N	8.07	129.93	119.84
3	Y	278	HIS	C-N-CA	8.07	129.93	119.84
4	t	28	ALA	N-CA-C	8.07	119.71	111.07
4	r	28	ALA	N-CA-C	8.07	119.70	111.07
1	J	557	GLU	N-CA-C	-8.06	95.58	108.73
1	M	1163	LEU	N-CA-C	8.06	118.88	109.60
4	g	28	ALA	N-CA-C	8.06	119.69	111.07
4	i	28	ALA	N-CA-C	8.06	119.69	111.07
4	m	28	ALA	N-CA-C	8.06	119.69	111.07
1	L	374	LEU	N-CA-C	-8.06	96.42	109.96
4	f	28	ALA	N-CA-C	8.05	119.69	111.07
1	G	1288	CYS	CA-C-N	-8.05	108.63	120.38
1	G	1288	CYS	C-N-CA	-8.05	108.63	120.38
1	O	921	ALA	N-CA-C	8.05	120.06	111.28
1	B	69	ARG	N-CA-C	8.04	123.28	113.38
1	J	1195	ASP	N-CA-C	8.04	122.38	110.48
4	h	28	ALA	N-CA-C	8.04	119.67	111.07
4	q	28	ALA	N-CA-C	8.03	119.66	111.07
4	r	76	GLN	C-N-CD	8.03	138.26	120.60
1	D	1080	VAL	N-CA-C	8.03	120.47	109.80
4	k	28	ALA	N-CA-C	8.03	119.66	111.07
1	G	294	LYS	N-CA-C	8.02	120.77	108.42
4	h	76	GLN	C-N-CD	8.02	138.24	120.60
4	f	76	GLN	C-N-CD	8.02	138.24	120.60
1	H	300	ALA	N-CA-C	8.01	120.13	110.19
1	I	1068	ARG	N-CA-C	8.01	120.01	111.28
4	s	76	GLN	C-N-CD	8.01	138.22	120.60
1	J	305	THR	N-CA-C	8.01	121.36	110.55

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	l	76	GLN	C-N-CD	8.01	138.22	120.60
3	e	285	ALA	N-CA-C	8.01	121.61	108.08
1	C	1347	ARG	N-CA-C	-8.01	95.06	108.75
4	p	28	ALA	N-CA-C	8.00	119.63	111.07
4	q	76	GLN	C-N-CD	8.00	138.21	120.60
1	C	430	PRO	N-CA-C	8.00	125.30	114.18
1	C	1224	ALA	N-CA-C	-8.00	103.12	113.12
1	K	15	ALA	N-CA-C	-8.00	101.25	113.89
1	P	135	LEU	N-CA-C	-8.00	95.86	108.90
4	i	76	GLN	C-N-CD	8.00	138.19	120.60
4	k	76	GLN	C-N-CD	8.00	138.19	120.60
1	E	1123	GLY	N-CA-C	7.99	132.12	113.18
3	Y	140	LEU	N-CA-C	-7.99	92.14	109.81
4	o	76	GLN	C-N-CD	7.99	138.18	120.60
4	p	76	GLN	C-N-CD	7.99	138.18	120.60
1	B	756	ILE	CA-C-N	-7.99	112.18	123.20
1	B	756	ILE	C-N-CA	-7.99	112.18	123.20
4	g	76	GLN	C-N-CD	7.99	138.17	120.60
4	n	76	GLN	C-N-CD	7.99	138.17	120.60
2	a	16	ILE	N-CA-C	-7.98	95.93	107.98
4	j	76	GLN	C-N-CD	7.98	138.16	120.60
4	t	76	GLN	C-N-CD	7.98	138.16	120.60
1	F	1263	LEU	N-CA-C	-7.98	102.53	111.14
4	m	76	GLN	C-N-CD	7.98	138.15	120.60
4	s	28	ALA	N-CA-C	7.97	119.60	111.07
1	A	1158	GLY	CA-C-N	-7.96	111.54	119.90
1	A	1158	GLY	C-N-CA	-7.96	111.54	119.90
1	I	1276	PHE	N-CA-C	7.96	119.74	111.14
1	N	1347	ARG	N-CA-C	-7.96	97.62	110.20
1	L	111	PRO	N-CA-C	7.96	124.85	113.47
1	A	325	ALA	N-CA-C	-7.95	102.69	111.36
3	S	256	THR	N-CA-C	7.95	122.24	110.48
1	L	57	LEU	N-CA-C	-7.95	95.57	108.52
1	G	1281	ASP	N-CA-C	-7.94	101.00	111.24
1	P	820	PHE	N-CA-C	7.94	120.02	111.36
3	b	256	THR	N-CA-C	7.94	122.23	110.48
3	Y	256	THR	N-CA-C	7.93	122.22	110.48
3	V	256	THR	N-CA-C	7.93	122.22	110.48
3	S	320	ARG	N-CA-C	-7.92	102.58	111.14
1	J	671	VAL	N-CA-C	-7.92	101.19	112.35
1	A	526	MET	N-CA-C	-7.92	100.32	110.53
3	Y	135	ARG	N-CA-C	7.91	121.80	108.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	f	98	TYR	N-CA-C	7.91	119.91	111.28
1	O	93	GLY	N-CA-C	-7.91	94.44	113.18
3	e	256	THR	N-CA-C	7.90	122.18	110.48
3	b	140	LEU	C-N-CD	7.90	137.98	120.60
2	T	177	ASN	N-CA-C	7.89	119.88	111.28
1	B	1123	GLY	N-CA-C	7.89	123.48	110.55
1	H	1257	TYR	N-CA-C	7.89	123.08	113.38
3	Y	320	ARG	N-CA-C	-7.88	102.62	111.14
1	F	536	ASN	N-CA-C	-7.88	95.07	109.56
1	C	1227	TYR	N-CA-C	7.87	123.06	113.38
1	H	753	ASP	N-CA-CB	7.87	123.31	110.32
3	V	77	ARG	N-CA-C	7.87	119.49	111.07
1	A	1219	GLU	CB-CA-C	-7.86	94.78	110.42
1	H	533	GLN	CA-C-N	7.86	129.01	120.13
1	H	533	GLN	C-N-CA	7.86	129.01	120.13
1	N	304	VAL	CB-CA-C	-7.85	98.42	111.29
1	D	956	TYR	CA-C-N	-7.85	115.05	122.66
1	D	956	TYR	C-N-CA	-7.85	115.05	122.66
3	e	320	ARG	N-CA-C	-7.85	102.66	111.14
1	G	38	PHE	N-CA-C	7.85	122.22	111.39
1	J	1043	GLY	N-CA-C	7.84	126.33	115.27
3	Y	351	ARG	CA-C-N	7.84	131.55	120.42
3	Y	351	ARG	C-N-CA	7.84	131.55	120.42
3	V	320	ARG	N-CA-C	-7.83	102.68	111.14
1	C	1119	VAL	N-CA-C	7.83	125.62	109.34
1	D	266	HIS	N-CA-C	-7.83	94.12	110.80
2	a	141	VAL	N-CA-C	7.83	116.65	107.73
1	C	534	PRO	N-CA-C	-7.83	98.27	110.95
1	E	1202	PRO	CB-CA-C	-7.83	105.30	111.87
1	N	16	ALA	N-CA-C	-7.82	103.46	113.16
1	L	760	GLY	CA-C-N	-7.82	108.09	122.09
1	L	760	GLY	C-N-CA	-7.82	108.09	122.09
1	D	779	ASN	N-CA-C	7.82	120.88	110.88
1	K	453	SER	N-CA-C	-7.81	98.22	109.31
1	K	95	VAL	N-CA-C	-7.81	96.82	108.46
1	N	305	THR	N-CA-C	7.81	121.96	110.17
1	L	45	ASP	N-CA-CB	-7.80	98.36	110.85
2	Z	254	ILE	N-CA-C	7.80	118.58	110.62
2	d	164	ASN	N-CA-C	-7.80	92.87	109.01
3	S	237	THR	N-CA-C	7.80	121.66	112.93
4	n	24	GLY	N-CA-C	-7.79	105.24	113.58
1	A	1072	ALA	N-CA-C	-7.79	97.19	109.50

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	J	377	LEU	N-CA-C	-7.78	99.53	110.50
1	O	1066	SER	N-CA-C	-7.78	98.30	110.36
1	P	305	THR	N-CA-C	7.78	121.58	110.14
1	P	1263	LEU	N-CA-C	-7.78	102.74	111.14
1	P	1251	SER	N-CA-C	-7.78	98.09	110.14
1	C	1319	GLU	N-CA-C	7.77	119.83	111.36
1	J	93	GLY	N-CA-C	-7.77	97.59	111.19
1	E	820	PHE	N-CA-C	7.77	119.53	111.14
3	e	237	THR	N-CA-C	7.77	121.63	112.93
3	V	237	THR	N-CA-C	7.76	121.63	112.93
1	H	292	PHE	N-CA-C	7.75	119.37	111.07
1	B	1263	LEU	N-CA-C	-7.75	102.77	111.14
1	O	1123	GLY	CA-C-N	7.75	130.67	120.28
1	O	1123	GLY	C-N-CA	7.75	130.67	120.28
3	S	199	ASP	N-CA-C	7.74	121.70	109.39
3	b	237	THR	N-CA-C	7.74	121.60	112.93
1	K	1068	ARG	CB-CA-C	-7.74	98.74	110.88
1	B	1346	ALA	N-CA-C	7.73	119.71	111.28
1	L	1235	ALA	N-CA-C	7.72	119.48	111.14
1	O	307	GLY	N-CA-C	-7.72	102.17	112.82
3	Y	237	THR	N-CA-C	7.72	121.57	112.93
1	O	778	ARG	N-CA-C	7.72	121.19	109.23
1	I	1241	THR	CB-CA-C	-7.71	96.28	110.62
1	M	556	VAL	N-CA-C	7.71	119.53	109.58
1	M	1350	GLU	N-CA-C	7.71	121.95	112.54
2	d	127	ASP	N-CA-C	-7.71	95.73	108.76
1	C	537	ALA	N-CA-C	-7.70	104.03	113.19
1	K	417	ALA	N-CA-C	-7.70	96.86	109.40
1	K	1216	GLY	N-CA-C	7.69	129.18	115.80
1	K	556	VAL	N-CA-C	7.69	120.70	109.63
1	D	1279	ALA	N-CA-C	-7.68	103.49	113.17
1	N	1106	TYR	N-CA-C	7.68	119.90	110.91
1	F	1264	ASN	N-CA-C	-7.68	99.46	110.59
1	L	1161	GLN	CA-C-N	-7.68	111.85	119.76
1	L	1161	GLN	C-N-CA	-7.68	111.85	119.76
3	S	245	MET	N-CA-C	7.66	121.81	111.24
2	d	16	ILE	N-CA-C	-7.65	93.43	109.34
2	W	183	GLY	N-CA-C	7.65	121.91	112.73
1	C	1222	VAL	N-CA-C	-7.63	99.65	109.80
3	Y	148	ALA	CA-C-N	-7.63	114.17	119.66
3	Y	148	ALA	C-N-CA	-7.63	114.17	119.66
1	J	192	ALA	N-CA-C	7.63	120.72	109.50

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	K	923	THR	N-CA-C	-7.63	103.86	113.02
1	K	307	GLY	N-CA-C	-7.63	101.69	112.37
1	M	1109	VAL	N-CA-C	-7.63	96.46	108.81
1	K	304	VAL	CB-CA-C	-7.62	98.79	111.29
1	I	259	VAL	N-CA-CB	-7.62	98.65	111.23
1	D	1291	ARG	N-CA-C	7.62	119.66	111.36
3	V	8	THR	N-CA-C	7.62	119.58	111.28
3	e	245	MET	N-CA-C	7.61	121.75	111.24
3	Y	245	MET	N-CA-C	7.61	121.74	111.24
1	I	786	ASN	N-CA-C	7.61	121.48	109.39
1	P	841	ASN	N-CA-C	-7.60	94.28	107.20
1	G	948	THR	N-CA-C	-7.60	101.72	112.13
3	b	245	MET	N-CA-C	7.60	121.72	111.24
3	b	8	THR	N-CA-C	7.59	119.56	111.28
1	P	1253	GLY	CA-C-N	7.59	130.31	120.44
1	P	1253	GLY	C-N-CA	7.59	130.31	120.44
4	s	8	ARG	N-CA-C	7.59	118.91	109.57
1	G	77	VAL	CB-CA-C	-7.59	101.90	112.14
1	L	1227	TYR	N-CA-C	7.59	122.84	112.90
4	r	97	THR	N-CA-C	-7.58	98.59	109.96
3	b	6	LEU	CA-C-N	7.58	129.31	119.84
3	b	6	LEU	C-N-CA	7.58	129.31	119.84
1	A	90	MET	N-CA-C	7.58	120.87	108.52
1	C	419	HIS	N-CA-CB	7.58	123.08	111.56
1	P	294	LYS	N-CA-C	-7.57	97.35	109.39
1	C	754	CYS	N-CA-C	-7.57	98.25	109.15
3	Y	78	ALA	N-CA-C	7.57	119.61	111.36
3	Y	458	ARG	N-CA-C	-7.57	96.51	109.15
3	b	349	ARG	N-CA-C	-7.57	103.78	113.16
1	E	265	THR	N-CA-C	-7.56	97.36	109.39
1	E	1277	PHE	N-CA-C	7.56	122.33	113.18
1	N	453	SER	N-CA-C	-7.56	97.90	109.85
3	V	245	MET	N-CA-C	7.55	121.66	111.24
1	K	1241	THR	CB-CA-C	-7.55	96.58	110.62
1	O	378	GLU	N-CA-C	7.55	120.34	108.79
1	P	565	PRO	N-CA-C	-7.55	96.92	112.47
2	X	164	ASN	C-N-CD	7.55	137.21	120.60
3	V	6	LEU	CA-C-N	7.54	129.26	119.84
3	V	6	LEU	C-N-CA	7.54	129.26	119.84
1	K	352	ASP	N-CA-C	7.53	121.25	108.67
1	N	359	GLN	N-CA-C	-7.53	99.31	110.23
1	K	372	ASP	CA-C-N	-7.53	107.76	121.69

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	K	372	ASP	C-N-CA	-7.53	107.76	121.69
2	W	177	ASN	N-CA-C	7.52	119.26	111.14
1	P	522	ALA	CA-C-N	7.52	130.97	120.29
1	P	522	ALA	C-N-CA	7.52	130.97	120.29
1	F	757	ASP	N-CA-C	7.52	123.72	107.49
3	Y	8	THR	N-CA-C	7.52	119.47	111.28
1	L	1107	THR	N-CA-C	7.51	123.36	113.30
1	L	1119	VAL	CB-CA-C	-7.51	98.97	111.29
3	Y	6	LEU	CA-C-N	7.51	129.23	119.84
3	Y	6	LEU	C-N-CA	7.51	129.23	119.84
1	E	1123	GLY	CA-C-N	7.51	130.34	120.28
1	E	1123	GLY	C-N-CA	7.51	130.34	120.28
3	b	195	THR	N-CA-C	7.50	119.09	111.07
4	s	8	ARG	C-N-CD	7.50	137.09	120.60
1	I	1264	ASN	N-CA-C	-7.49	99.08	110.70
1	K	446	ASP	N-CA-C	-7.49	97.33	108.79
3	b	458	ARG	N-CA-C	-7.49	93.15	109.11
4	r	108	THR	N-CA-C	-7.49	101.40	108.07
1	B	1276	PHE	N-CA-C	7.49	119.53	111.36
3	e	8	THR	N-CA-C	7.48	119.51	111.36
2	R	124	GLN	N-CA-C	7.48	119.07	111.07
1	G	453	SER	N-CA-C	-7.48	98.55	110.14
3	Y	142	HIS	N-CA-C	-7.47	103.21	111.36
1	G	521	VAL	N-CA-C	-7.47	93.81	109.34
1	P	70	PHE	CB-CA-C	-7.47	95.56	110.42
2	a	159	GLY	N-CA-C	-7.47	103.77	112.73
1	G	1117	ASN	CA-C-N	-7.46	111.69	120.13
1	G	1117	ASN	C-N-CA	-7.46	111.69	120.13
1	D	445	LYS	N-CA-C	-7.46	98.77	109.96
1	J	89	TYR	N-CA-C	7.46	119.49	111.36
1	K	1278	THR	CB-CA-C	7.46	125.27	110.42
1	A	196	ALA	N-CA-C	-7.46	94.92	110.80
1	A	313	GLY	N-CA-C	7.46	126.03	111.34
1	M	534	PRO	CB-CA-C	-7.46	105.61	111.87
1	E	916	ALA	N-CA-C	-7.46	99.42	110.23
1	H	534	PRO	N-CA-C	7.46	122.70	110.55
1	N	882	GLY	N-CA-C	-7.45	96.66	111.34
1	K	554	ALA	N-CA-C	7.45	121.63	112.54
1	A	312	ASN	N-CA-C	-7.45	100.00	110.50
1	P	1224	ALA	N-CA-C	-7.44	103.25	111.36
1	M	148	LEU	N-CA-C	7.44	120.56	107.61
1	O	377	LEU	N-CA-C	-7.44	100.02	110.50

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	G	41	ARG	N-CA-C	7.43	119.03	111.07
1	M	429	HIS	CA-C-N	7.43	127.06	119.56
1	M	429	HIS	C-N-CA	7.43	127.06	119.56
3	b	161	TRP	N-CA-C	7.43	119.38	111.28
3	V	141	PRO	N-CA-C	-7.42	102.46	112.48
1	K	922	SER	N-CA-C	7.42	119.44	111.36
3	Y	438	ARG	N-CA-C	-7.41	100.38	110.68
1	G	1319	GLU	N-CA-C	7.41	120.62	108.99
1	J	532	MET	N-CA-C	7.40	121.43	110.48
1	G	526	MET	N-CA-C	-7.38	97.90	109.72
1	K	948	THR	N-CA-C	-7.38	95.07	110.80
1	C	235	GLY	N-CA-C	7.38	122.21	112.77
3	e	140	LEU	C-N-CD	-7.37	94.77	125.00
3	Y	301	CYS	N-CA-C	-7.37	103.25	111.28
1	K	526	MET	N-CA-C	-7.37	98.85	109.31
3	V	459	PRO	N-CA-C	7.37	124.00	113.47
3	b	281	ARG	C-N-CD	-7.36	94.82	125.00
1	I	754	CYS	N-CA-C	-7.36	99.45	109.54
1	J	917	GLY	N-CA-C	-7.36	98.20	111.15
1	E	306	TYR	N-CA-C	7.36	121.17	110.28
1	L	1123	GLY	N-CA-C	7.35	123.14	112.55
1	N	1331	ALA	N-CA-C	-7.35	98.13	109.52
1	A	1156	ARG	N-CA-C	-7.35	103.27	111.28
1	J	669	SER	N-CA-C	-7.35	103.35	111.36
1	B	758	ALA	N-CA-C	-7.34	101.61	111.96
1	P	520	TRP	CA-C-N	7.34	135.18	121.97
1	P	520	TRP	C-N-CA	7.34	135.18	121.97
4	f	16	ASN	CA-C-N	7.34	135.18	121.97
4	f	16	ASN	C-N-CA	7.34	135.18	121.97
3	e	459	PRO	N-CA-C	7.33	123.96	113.47
3	V	142	HIS	N-CA-C	-7.33	103.37	111.36
3	S	459	PRO	N-CA-C	7.32	123.94	113.47
3	e	134	LEU	N-CA-C	-7.31	96.61	108.52
1	L	419	HIS	N-CA-C	-7.30	97.96	109.50
1	P	355	GLU	N-CA-C	7.30	121.04	109.50
3	b	279	PRO	CB-CA-C	-7.30	99.51	111.56
1	G	287	ARG	N-CA-C	-7.29	103.27	111.07
1	A	306	TYR	N-CA-C	7.29	120.52	108.49
3	b	335	PRO	N-CA-C	7.29	118.38	110.58
4	h	95	LYS	N-CA-C	-7.29	95.28	110.80
4	l	95	LYS	N-CA-C	-7.29	95.28	110.80
4	o	95	LYS	N-CA-C	-7.28	95.29	110.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	K	1279	ALA	N-CA-C	7.28	120.08	111.71
4	g	95	LYS	N-CA-C	-7.28	95.30	110.80
1	B	1251	SER	N-CA-C	-7.28	101.14	110.53
1	C	1316	GLY	N-CA-C	7.28	121.46	112.73
1	K	433	ARG	NE-CZ-NH2	7.28	125.75	119.20
4	i	95	LYS	N-CA-C	-7.28	95.30	110.80
4	m	95	LYS	N-CA-C	-7.26	95.33	110.80
1	I	259	VAL	N-CA-C	7.26	124.44	109.34
4	p	95	LYS	N-CA-C	-7.26	95.33	110.80
1	G	823	GLY	N-CA-C	-7.26	105.96	115.47
4	f	95	LYS	N-CA-C	-7.26	95.33	110.80
1	J	1348	ASP	N-CA-C	-7.26	103.73	112.58
2	c	125	ALA	N-CA-C	-7.26	99.08	109.96
4	q	95	LYS	N-CA-C	-7.26	95.34	110.80
1	O	1319	GLU	N-CA-C	7.25	124.49	113.61
2	Z	125	ALA	N-CA-C	-7.25	99.08	109.96
4	n	95	LYS	N-CA-C	-7.25	95.36	110.80
1	E	921	ALA	N-CA-C	-7.24	106.36	114.62
1	M	308	GLU	N-CA-C	7.24	120.18	109.24
2	T	125	ALA	N-CA-C	-7.24	99.10	109.96
2	W	125	ALA	N-CA-C	-7.24	99.10	109.96
1	M	340	GLN	N-CA-C	7.24	119.25	111.36
4	k	95	LYS	N-CA-C	-7.24	95.39	110.80
1	D	265	THR	N-CA-C	-7.23	104.48	112.72
1	G	1277	PHE	N-CA-C	-7.22	95.41	110.80
1	A	527	THR	N-CA-C	-7.22	95.85	108.20
1	O	1253	GLY	N-CA-C	-7.22	96.08	113.18
1	G	88	ALA	N-CA-C	-7.21	103.50	111.36
1	B	38	PHE	N-CA-C	-7.21	99.07	109.31
1	D	945	LEU	N-CA-C	7.21	121.67	113.02
1	L	529	GLU	N-CA-CB	7.21	121.25	110.65
1	J	465	SER	N-CA-C	-7.21	102.97	112.34
1	L	265	THR	N-CA-C	-7.21	101.43	111.81
1	M	1241	THR	CB-CA-C	-7.21	96.03	110.30
1	O	268	ASP	N-CA-C	-7.21	101.02	110.53
2	Q	125	ALA	N-CA-C	-7.20	99.16	109.96
3	V	263	VAL	CA-C-N	-7.20	111.13	121.42
3	V	263	VAL	C-N-CA	-7.20	111.13	121.42
1	P	427	PRO	N-CA-C	7.19	123.53	113.53
1	I	380	LEU	N-CA-C	7.19	122.88	111.81
4	s	106	PRO	N-CA-C	-7.19	99.95	111.38
1	B	47	ASN	N-CA-C	-7.18	95.50	110.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	C	1198	TYR	N-CA-C	-7.18	103.45	111.28
2	d	231	SER	O-C-N	7.17	129.55	122.09
1	G	535	ASP	N-CA-C	7.17	126.07	110.80
1	L	292	PHE	N-CA-C	-7.17	98.17	109.50
1	H	881	ASN	N-CA-C	-7.16	102.52	111.11
3	S	263	VAL	CA-C-N	-7.16	111.18	121.42
3	S	263	VAL	C-N-CA	-7.16	111.18	121.42
3	b	263	VAL	CA-C-N	-7.16	111.18	121.42
3	b	263	VAL	C-N-CA	-7.16	111.18	121.42
1	I	1222	VAL	N-CA-C	-7.16	99.44	108.89
1	L	920	THR	N-CA-C	-7.16	95.55	110.80
1	M	1120	THR	N-CA-C	-7.16	98.14	109.23
3	Y	440	GLU	CA-C-N	-7.16	113.13	123.00
3	Y	440	GLU	C-N-CA	-7.16	113.13	123.00
1	P	1299	ALA	N-CA-C	-7.15	98.44	109.24
1	F	126	ARG	N-CA-C	7.15	120.13	108.26
4	s	21	GLY	CA-C-N	-7.14	110.71	120.28
4	s	21	GLY	C-N-CA	-7.14	110.71	120.28
4	f	21	GLY	CA-C-N	-7.14	110.72	120.28
4	f	21	GLY	C-N-CA	-7.14	110.72	120.28
1	I	374	LEU	N-CA-C	-7.13	97.62	109.46
3	e	263	VAL	CA-C-N	-7.13	111.22	121.42
3	e	263	VAL	C-N-CA	-7.13	111.22	121.42
1	I	1255	LEU	N-CA-C	-7.13	104.55	113.18
4	m	97	THR	N-CA-C	-7.13	103.59	112.72
1	A	207	ASN	N-CA-C	-7.12	98.20	108.60
1	L	1160	ALA	N-CA-C	7.12	119.12	111.36
3	Y	263	VAL	CA-C-N	-7.12	111.24	121.42
3	Y	263	VAL	C-N-CA	-7.12	111.24	121.42
1	F	299	GLU	N-CA-C	-7.12	96.75	108.49
4	s	12	ILE	N-CA-C	7.12	120.69	108.95
1	K	267	ALA	N-CA-C	-7.11	97.31	108.90
1	K	1277	PHE	N-CA-C	-7.11	96.04	108.20
4	l	8	ARG	N-CA-C	7.11	119.81	109.71
1	I	121	THR	CB-CA-C	-7.11	102.62	111.43
1	M	193	PRO	O-C-N	7.11	124.49	121.15
1	N	278	LEU	N-CA-C	-7.11	96.68	108.34
1	P	302	VAL	N-CA-C	7.11	124.23	108.88
4	k	8	ARG	N-CA-C	7.11	119.80	109.71
4	m	8	ARG	N-CA-C	7.10	119.80	109.71
1	A	327	ARG	N-CA-C	-7.10	95.67	110.80
4	i	8	ARG	N-CA-C	7.10	119.79	109.71

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	k	98	TYR	N-CA-C	7.10	125.92	110.80
4	r	8	ARG	N-CA-C	7.10	119.79	109.71
1	H	1267	SER	N-CA-C	7.10	118.65	109.64
2	X	231	SER	O-C-N	7.10	129.47	122.09
1	F	1112	THR	CA-C-N	7.09	130.37	120.29
1	F	1112	THR	C-N-CA	7.09	130.37	120.29
2	d	96	GLY	N-CA-C	7.09	129.99	113.18
2	X	96	GLY	N-CA-C	7.09	129.99	113.18
4	f	8	ARG	N-CA-C	7.09	119.78	109.71
1	A	376	PHE	N-CA-C	-7.09	97.69	108.67
2	U	96	GLY	N-CA-C	7.09	129.98	113.18
2	R	96	GLY	N-CA-C	7.08	129.97	113.18
4	h	8	ARG	N-CA-C	7.08	119.76	109.71
4	o	8	ARG	N-CA-C	7.08	119.76	109.71
4	q	8	ARG	N-CA-C	7.08	119.76	109.71
1	I	258	SER	CB-CA-C	-7.07	97.97	111.48
2	U	231	SER	O-C-N	7.07	129.44	122.09
1	O	1112	THR	N-CA-C	-7.07	96.75	108.34
2	a	231	SER	O-C-N	7.07	129.44	122.09
1	B	623	TYR	N-CA-C	-7.07	99.11	109.50
1	I	1245	TRP	CA-C-N	7.07	133.88	121.80
1	I	1245	TRP	C-N-CA	7.07	133.88	121.80
4	g	8	ARG	N-CA-C	7.06	119.74	109.71
1	C	429	HIS	N-CA-C	7.06	125.41	109.81
1	O	305	THR	N-CA-C	7.06	119.20	109.18
1	N	1340	PRO	CA-C-N	7.06	130.31	120.29
1	N	1340	PRO	C-N-CA	7.06	130.31	120.29
4	n	8	ARG	N-CA-C	7.06	119.73	109.71
1	B	916	ALA	N-CA-C	-7.05	100.00	110.23
1	G	452	LEU	N-CA-C	-7.05	97.41	108.90
4	t	8	ARG	N-CA-C	7.05	119.72	109.71
1	J	1069	ALA	N-CA-C	-7.05	101.86	110.88
1	M	1222	VAL	N-CA-C	-7.05	97.99	109.12
2	R	231	SER	O-C-N	7.05	129.42	122.09
1	M	1194	THR	N-CA-C	-7.04	97.48	109.24
4	p	8	ARG	N-CA-C	7.04	119.71	109.71
1	P	1198	TYR	N-CA-C	-7.04	103.62	111.71
1	G	563	VAL	CA-C-N	-7.03	113.14	120.38
1	G	563	VAL	C-N-CA	-7.03	113.14	120.38
4	j	8	ARG	N-CA-C	7.03	119.69	109.71
3	b	140	LEU	N-CA-C	7.02	123.26	113.57
1	P	1331	ALA	N-CA-C	-7.02	98.64	109.52

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	E	1276	PHE	N-CA-C	7.02	118.72	111.14
1	B	373	ARG	N-CA-C	7.01	120.40	110.23
1	H	351	LEU	N-CA-C	7.01	118.92	111.28
1	I	1330	GLU	N-CA-C	7.01	118.84	108.60
1	D	485	ASN	N-CA-C	-7.01	94.32	109.81
1	L	1200	ARG	N-CA-C	-7.00	104.34	113.17
3	e	274	THR	CB-CA-C	-6.99	99.48	112.00
1	A	1133	ARG	N-CA-C	6.98	121.11	112.59
2	X	96	GLY	CA-C-N	-6.98	108.21	121.54
2	X	96	GLY	C-N-CA	-6.98	108.21	121.54
3	V	274	THR	CB-CA-C	-6.98	99.51	112.00
3	V	6	LEU	CB-CA-C	6.97	123.90	110.17
1	P	1104	VAL	CB-CA-C	6.97	121.43	111.88
1	O	1123	GLY	N-CA-C	6.97	129.69	113.18
1	A	535	ASP	N-CA-C	6.96	121.16	112.24
3	b	274	THR	CB-CA-C	-6.96	99.53	112.00
3	b	6	LEU	CB-CA-C	6.96	123.88	110.17
1	L	270	ARG	N-CA-C	-6.96	102.20	110.41
1	L	582	LEU	N-CA-C	-6.96	100.99	109.83
1	G	830	VAL	N-CA-C	6.96	119.46	108.89
1	E	758	ALA	N-CA-C	-6.95	102.80	112.12
1	O	1359	THR	N-CA-C	6.95	121.61	113.20
1	E	266	HIS	N-CA-C	-6.95	102.07	111.87
1	I	302	VAL	C-N-CD	-6.95	96.50	125.00
1	A	533	GLN	CA-C-N	-6.95	113.50	120.31
1	A	533	GLN	C-N-CA	-6.95	113.50	120.31
3	Y	274	THR	CB-CA-C	-6.95	99.56	112.00
4	h	14	ALA	N-CA-C	-6.95	96.28	108.23
2	d	96	GLY	CA-C-N	-6.95	108.27	121.54
2	d	96	GLY	C-N-CA	-6.95	108.27	121.54
4	j	14	ALA	N-CA-C	-6.94	96.29	108.23
4	o	14	ALA	N-CA-C	-6.94	96.29	108.23
1	O	1160	ALA	N-CA-C	-6.94	98.72	109.76
2	U	96	GLY	CA-C-N	-6.94	108.28	121.54
2	U	96	GLY	C-N-CA	-6.94	108.28	121.54
1	J	1278	THR	N-CA-CB	6.94	121.72	110.90
3	Y	6	LEU	CB-CA-C	6.93	123.83	110.17
4	n	14	ALA	N-CA-C	-6.93	96.30	108.23
1	E	757	ASP	N-CA-C	6.93	122.46	107.49
4	p	14	ALA	N-CA-C	-6.93	96.31	108.23
3	Y	136	HIS	N-CA-C	6.93	125.12	109.81
3	V	38	ARG	C-N-CD	6.92	135.83	120.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	m	14	ALA	N-CA-C	-6.92	96.32	108.23
4	l	14	ALA	N-CA-C	-6.92	96.33	108.23
4	g	14	ALA	N-CA-C	-6.92	96.33	108.23
1	L	1199	PHE	CB-CA-C	-6.91	102.99	109.83
2	R	96	GLY	CA-C-N	-6.91	108.33	121.54
2	R	96	GLY	C-N-CA	-6.91	108.33	121.54
4	f	14	ALA	N-CA-C	-6.91	96.34	108.23
4	q	14	ALA	N-CA-C	-6.91	96.34	108.23
1	E	1267	SER	CA-C-N	6.91	126.61	119.56
1	E	1267	SER	C-N-CA	6.91	126.61	119.56
1	M	270	ARG	N-CA-C	-6.91	99.12	109.83
1	P	847	ILE	N-CA-C	6.91	119.58	109.63
4	k	14	ALA	N-CA-C	-6.91	96.35	108.23
4	i	14	ALA	N-CA-C	-6.91	96.35	108.23
4	t	14	ALA	N-CA-C	-6.91	96.35	108.23
1	D	1123	GLY	N-CA-C	6.90	129.53	113.18
1	F	1084	GLU	N-CA-C	6.90	119.65	111.02
3	V	421	ALA	CA-C-N	-6.90	111.03	122.21
3	V	421	ALA	C-N-CA	-6.90	111.03	122.21
1	E	13	TYR	N-CA-C	-6.88	100.29	110.48
1	F	1275	LYS	N-CA-C	6.88	118.78	111.28
3	S	421	ALA	CA-C-N	-6.88	111.06	122.21
3	S	421	ALA	C-N-CA	-6.88	111.06	122.21
1	A	1251	SER	N-CA-C	6.88	121.53	113.20
1	M	268	ASP	N-CA-C	-6.88	97.82	108.42
1	P	306	TYR	N-CA-C	6.88	119.70	109.59
4	t	47	GLN	N-CA-C	-6.88	96.15	110.80
4	r	14	ALA	N-CA-C	-6.88	96.41	108.23
1	K	528	ALA	N-CA-C	-6.87	103.87	111.36
4	p	47	GLN	N-CA-C	-6.87	96.17	110.80
4	s	19	ALA	N-CA-C	-6.87	101.46	110.53
4	h	47	GLN	N-CA-C	-6.87	96.17	110.80
4	k	47	GLN	N-CA-C	-6.86	96.19	110.80
4	r	47	GLN	N-CA-C	-6.86	96.19	110.80
4	s	47	GLN	N-CA-C	-6.86	96.19	110.80
1	A	419	HIS	N-CA-CB	6.86	123.28	111.69
4	i	47	GLN	N-CA-C	-6.86	96.19	110.80
1	K	1331	ALA	N-CA-C	-6.85	99.52	110.14
4	g	47	GLN	N-CA-C	-6.85	96.21	110.80
1	J	268	ASP	N-CA-C	6.85	119.65	108.08
1	N	1223	ILE	CB-CA-C	-6.85	100.06	111.29
3	Y	352	ILE	N-CA-C	-6.85	103.80	110.72

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	J	15	ALA	N-CA-C	-6.84	103.88	111.82
4	f	47	GLN	N-CA-C	-6.84	96.22	110.80
1	B	1122	MET	N-CA-C	-6.84	99.91	110.10
2	d	164	ASN	CA-C-N	-6.84	112.44	119.83
2	d	164	ASN	C-N-CA	-6.84	112.44	119.83
1	J	1276	PHE	N-CA-C	-6.84	99.08	109.95
4	m	47	GLN	N-CA-C	-6.83	96.24	110.80
4	o	47	GLN	N-CA-C	-6.83	96.25	110.80
4	j	47	GLN	N-CA-C	-6.83	96.25	110.80
4	n	47	GLN	N-CA-C	-6.83	96.25	110.80
4	l	47	GLN	N-CA-C	-6.83	96.26	110.80
1	N	539	LEU	N-CA-C	-6.83	103.92	111.36
3	S	96	ARG	N-CA-C	-6.82	100.88	110.50
1	I	1222	VAL	CB-CA-C	-6.82	102.28	111.15
4	q	47	GLN	N-CA-C	-6.82	96.27	110.80
1	H	419	HIS	N-CA-C	6.82	122.65	108.53
1	D	1219	GLU	N-CA-C	6.82	125.31	110.80
1	I	1289	LEU	N-CA-C	6.81	118.36	111.07
1	M	941	ALA	CA-C-N	-6.81	112.48	119.83
1	M	941	ALA	C-N-CA	-6.81	112.48	119.83
4	r	5	GLN	O-C-N	6.81	131.04	123.01
1	I	563	VAL	CA-C-N	-6.80	113.37	120.38
1	I	563	VAL	C-N-CA	-6.80	113.37	120.38
1	L	786	ASN	N-CA-C	6.80	120.21	109.39
1	A	1200	ARG	N-CA-C	-6.80	104.93	113.23
1	C	786	ASN	N-CA-C	6.80	120.20	109.39
4	o	35	ILE	CA-C-N	6.80	132.35	122.77
4	o	35	ILE	C-N-CA	6.80	132.35	122.77
4	g	98	TYR	N-CA-C	6.79	125.27	110.80
1	K	1317	CYS	N-CA-C	-6.79	97.45	108.52
1	H	1198	TYR	N-CA-C	-6.79	100.18	110.70
1	E	31	SER	N-CA-C	-6.78	103.13	111.33
4	j	5	GLN	O-C-N	6.78	131.01	123.01
4	f	5	GLN	O-C-N	6.77	131.00	123.01
4	m	5	GLN	O-C-N	6.77	131.00	123.01
4	o	5	GLN	O-C-N	6.77	130.99	123.01
1	K	820	PHE	CA-C-N	6.76	132.98	121.14
1	K	820	PHE	C-N-CA	6.76	132.98	121.14
4	g	5	GLN	O-C-N	6.76	130.99	123.01
4	s	5	GLN	O-C-N	6.76	130.99	123.01
1	E	30	ALA	N-CA-C	6.75	118.64	111.28
1	J	281	THR	N-CA-C	-6.75	102.10	110.41

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	58	LEU	N-CA-C	6.75	120.83	112.59
1	G	277	VAL	CB-CA-C	6.75	117.06	111.05
1	M	946	ASP	N-CA-C	-6.75	94.12	107.69
4	f	35	ILE	CA-C-N	6.75	132.29	122.77
4	f	35	ILE	C-N-CA	6.75	132.29	122.77
4	i	5	GLN	O-C-N	6.75	130.97	123.01
4	j	35	ILE	CA-C-N	6.74	132.28	122.77
4	j	35	ILE	C-N-CA	6.74	132.28	122.77
1	K	1226	MET	N-CA-C	6.74	118.42	111.14
1	J	1123	GLY	N-CA-C	6.74	129.15	113.18
1	P	266	HIS	N-CA-C	-6.74	104.78	112.87
3	b	300	LEU	N-CA-C	-6.74	93.58	107.67
4	i	35	ILE	CA-C-N	6.74	132.27	122.77
4	i	35	ILE	C-N-CA	6.74	132.27	122.77
4	l	5	GLN	O-C-N	6.74	130.96	123.01
1	A	31	SER	N-CA-C	-6.74	104.08	112.90
1	A	371	GLY	N-CA-C	-6.74	97.22	113.18
4	k	5	GLN	O-C-N	6.74	130.96	123.01
4	q	5	GLN	O-C-N	6.74	130.96	123.01
4	t	35	ILE	CA-C-N	6.74	132.27	122.77
4	t	35	ILE	C-N-CA	6.74	132.27	122.77
3	e	39	PRO	N-CA-C	-6.73	102.48	110.70
4	r	35	ILE	CA-C-N	6.73	132.26	122.77
4	r	35	ILE	C-N-CA	6.73	132.26	122.77
1	E	1102	LEU	N-CA-C	6.73	118.70	111.36
1	M	351	LEU	N-CA-C	-6.73	103.94	111.28
4	h	35	ILE	CA-C-N	6.73	132.26	122.77
4	h	35	ILE	C-N-CA	6.73	132.26	122.77
4	q	35	ILE	CA-C-N	6.73	132.26	122.77
4	q	35	ILE	C-N-CA	6.73	132.26	122.77
4	g	35	ILE	CA-C-N	6.73	132.25	122.77
4	g	35	ILE	C-N-CA	6.73	132.25	122.77
1	G	1198	TYR	N-CA-C	-6.72	97.58	108.41
1	A	536	ASN	CA-C-N	-6.72	108.48	120.99
1	A	536	ASN	C-N-CA	-6.72	108.48	120.99
3	b	346	LEU	N-CA-C	6.72	118.69	111.36
4	k	35	ILE	CA-C-N	6.72	132.25	122.77
4	k	35	ILE	C-N-CA	6.72	132.25	122.77
4	n	5	GLN	O-C-N	6.72	130.94	123.01
4	n	35	ILE	CA-C-N	6.72	132.25	122.77
4	n	35	ILE	C-N-CA	6.72	132.25	122.77
4	t	5	GLN	O-C-N	6.72	130.94	123.01

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	J	1171	VAL	N-CA-C	-6.72	100.07	107.73
4	p	5	GLN	O-C-N	6.72	130.94	123.01
4	h	5	GLN	O-C-N	6.72	130.94	123.01
4	p	35	ILE	CA-C-N	6.72	132.24	122.77
4	p	35	ILE	C-N-CA	6.72	132.24	122.77
4	s	35	ILE	CA-C-N	6.71	132.24	122.77
4	s	35	ILE	C-N-CA	6.71	132.24	122.77
1	D	302	VAL	CA-C-N	6.71	126.67	120.03
1	D	302	VAL	C-N-CA	6.71	126.67	120.03
1	K	520	TRP	CA-C-N	6.71	130.15	122.36
1	K	520	TRP	C-N-CA	6.71	130.15	122.36
4	l	35	ILE	CA-C-N	6.71	132.23	122.77
4	l	35	ILE	C-N-CA	6.71	132.23	122.77
1	J	786	ASN	N-CA-C	6.71	120.22	107.75
1	G	859	THR	N-CA-C	6.70	122.95	114.31
1	D	820	PHE	N-CA-C	6.70	118.66	111.36
1	E	1230	GLY	N-CA-C	-6.70	104.69	112.73
1	J	1106	TYR	N-CA-C	6.70	119.40	108.08
4	m	35	ILE	CA-C-N	6.70	132.21	122.77
4	m	35	ILE	C-N-CA	6.70	132.21	122.77
1	F	46	GLU	N-CA-C	6.69	120.53	108.48
1	N	296	GLU	CA-C-N	-6.69	113.10	122.74
1	N	296	GLU	C-N-CA	-6.69	113.10	122.74
1	D	1104	VAL	N-CA-C	-6.69	103.97	110.72
1	G	566	ALA	N-CA-C	6.68	119.82	107.99
1	I	458	VAL	N-CA-C	-6.68	100.91	109.80
1	M	13	TYR	N-CA-C	6.68	118.65	111.36
1	P	933	LEU	N-CA-C	-6.68	98.01	108.90
1	P	1279	ALA	CB-CA-C	-6.68	97.13	110.42
1	E	921	ALA	N-CA-CB	6.68	121.73	111.18
1	K	778	ARG	N-CA-C	6.68	119.58	109.23
3	e	278	HIS	CA-C-N	6.67	128.18	119.84
3	e	278	HIS	C-N-CA	6.67	128.18	119.84
1	F	1266	ALA	N-CA-C	-6.67	96.59	110.80
1	I	71	LEU	N-CA-C	-6.67	105.44	113.97
3	V	284	SER	N-CA-C	6.67	119.89	108.02
1	J	378	GLU	N-CA-C	6.67	119.45	108.99
1	E	48	SER	N-CA-C	6.66	121.00	113.01
1	B	136	ALA	N-CA-C	6.66	120.48	108.69
1	C	945	LEU	N-CA-C	6.65	121.10	112.92
1	A	264	LEU	N-CA-C	-6.64	96.70	108.13
1	A	1220	GLY	N-CA-C	-6.64	97.43	113.18

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	F	69	ARG	N-CA-C	-6.64	99.99	109.96
1	G	1203	CYS	N-CA-C	6.64	119.39	110.35
3	S	280	GLY	N-CA-C	-6.64	97.44	113.18
3	b	456	VAL	N-CA-C	-6.64	98.81	108.11
1	P	419	HIS	N-CA-CB	6.64	121.65	111.56
3	V	427	VAL	CB-CA-C	-6.63	104.02	111.45
1	A	1241	THR	CB-CA-C	-6.63	98.29	110.62
2	a	94	HIS	N-CA-C	-6.63	99.40	109.95
3	V	280	GLY	N-CA-C	-6.63	97.47	113.18
3	V	296	LEU	N-CA-CB	6.63	121.98	111.91
1	B	1345	SER	CA-C-N	6.62	129.15	120.28
1	B	1345	SER	C-N-CA	6.62	129.15	120.28
3	e	199	ASP	N-CA-C	6.62	120.04	108.52
3	e	296	LEU	N-CA-CB	6.62	121.97	111.91
1	M	558	LEU	N-CA-C	6.62	124.43	109.81
1	H	147	ALA	N-CA-C	6.61	124.89	110.80
1	D	13	TYR	N-CA-C	6.61	118.57	111.36
3	S	296	LEU	N-CA-CB	6.61	121.96	111.91
1	P	919	ASN	N-CA-C	6.61	119.36	109.25
3	Y	89	LYS	N-CA-C	-6.61	104.08	111.28
3	e	427	VAL	CB-CA-C	-6.61	104.05	111.45
1	M	356	SER	N-CA-C	6.60	124.87	110.80
2	Z	218	THR	N-CA-C	6.60	118.47	111.28
3	S	427	VAL	CB-CA-C	-6.60	104.06	111.45
1	O	554	ALA	N-CA-C	6.59	118.13	111.07
1	O	1125	LEU	N-CA-C	6.59	119.08	109.71
1	P	1347	ARG	N-CA-C	-6.59	99.79	110.20
1	L	378	GLU	N-CA-C	6.58	119.18	109.24
1	B	296	GLU	N-CA-C	-6.58	97.63	108.49
3	Y	296	LEU	N-CA-CB	6.58	121.91	111.91
1	G	554	ALA	N-CA-C	6.58	119.73	111.24
1	G	293	LEU	N-CA-C	6.58	118.52	108.52
1	D	305	THR	N-CA-CB	-6.58	100.33	110.85
1	N	1330	GLU	N-CA-C	6.58	119.17	109.24
1	J	1317	CYS	N-CA-C	6.57	119.65	109.07
1	L	1330	GLU	N-CA-C	6.57	119.06	109.07
2	U	16	ILE	N-CA-C	-6.57	98.25	108.44
1	E	519	ARG	N-CA-C	6.57	118.44	111.28
1	G	386	ALA	N-CA-C	6.56	124.78	110.80
1	F	1117	ASN	N-CA-CB	6.56	118.05	111.29
3	V	301	CYS	N-CA-C	-6.56	104.13	111.28
1	A	522	ALA	CA-C-N	6.56	129.60	120.29

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	522	ALA	C-N-CA	6.56	129.60	120.29
1	F	236	LYS	N-CA-C	-6.56	97.72	108.41
1	M	525	GLN	N-CA-C	6.55	119.39	110.55
1	L	564	PRO	O-C-N	6.54	124.23	121.15
1	O	95	VAL	N-CA-C	-6.54	98.77	108.45
1	I	1159	PRO	N-CA-C	6.54	121.92	111.26
1	O	1072	ALA	N-CA-C	-6.54	98.54	109.07
1	J	302	VAL	C-N-CD	-6.54	98.19	125.00
1	M	1155	ASN	O-C-N	6.54	130.91	122.87
1	K	1278	THR	CA-C-N	6.54	129.69	120.28
1	K	1278	THR	C-N-CA	6.54	129.69	120.28
1	P	485	ASN	N-CA-C	-6.54	95.36	109.81
1	D	1086	GLY	N-CA-C	-6.54	99.58	110.95
1	N	270	ARG	N-CA-C	-6.54	104.41	112.38
1	A	153	ILE	CB-CA-C	-6.53	103.32	112.14
3	b	330	VAL	N-CA-C	6.53	118.00	109.58
1	G	426	ALA	N-CA-C	-6.53	95.38	109.81
1	J	536	ASN	CB-CA-C	-6.53	102.58	112.11
1	L	1202	PRO	CA-C-N	6.52	130.60	120.75
1	L	1202	PRO	C-N-CA	6.52	130.60	120.75
1	P	1275	LYS	CA-C-N	6.52	130.23	120.31
1	P	1275	LYS	C-N-CA	6.52	130.23	120.31
1	J	429	HIS	N-CA-C	6.52	120.21	109.58
1	L	308	GLU	N-CA-C	6.51	119.51	108.90
1	M	958	LEU	N-CA-C	-6.51	95.42	109.81
1	N	1197	ASN	N-CA-C	6.51	118.38	111.28
1	G	1243	ASN	CA-C-N	-6.51	113.07	119.64
1	G	1243	ASN	C-N-CA	-6.51	113.07	119.64
1	D	14	ALA	N-CA-C	-6.51	99.03	109.96
1	G	289	LEU	N-CA-C	6.50	118.37	111.28
1	C	1314	PRO	O-C-N	6.50	124.30	121.31
1	N	534	PRO	CA-N-CD	-6.50	102.90	112.00
1	O	578	VAL	N-CA-C	6.50	119.13	108.99
3	e	458	ARG	CA-C-N	6.49	125.72	118.97
3	e	458	ARG	C-N-CA	6.49	125.72	118.97
1	G	1115	VAL	CB-CA-C	-6.49	101.49	110.96
1	K	1312	LYS	N-CA-C	-6.49	101.35	110.50
1	M	557	GLU	N-CA-C	6.48	118.43	111.36
1	E	1122	MET	N-CA-C	6.48	124.60	110.80
1	J	395	VAL	N-CA-C	-6.48	98.95	108.54
1	O	1120	THR	N-CA-C	-6.48	99.48	109.52
2	R	237	VAL	CB-CA-C	-6.48	100.67	111.29

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	D	1156	ARG	N-CA-C	-6.47	104.26	111.71
4	h	97	THR	N-CA-C	-6.47	104.44	112.72
3	S	458	ARG	CA-C-N	6.47	125.70	118.97
3	S	458	ARG	C-N-CA	6.47	125.70	118.97
4	f	97	THR	N-CA-C	-6.47	96.36	107.61
1	H	272	ARG	CA-C-N	-6.47	111.52	120.25
1	H	272	ARG	C-N-CA	-6.47	111.52	120.25
1	E	1256	LEU	N-CA-C	6.46	118.41	111.36
1	L	1158	GLY	CA-C-N	-6.46	113.32	119.85
1	L	1158	GLY	C-N-CA	-6.46	113.32	119.85
1	N	1235	ALA	N-CA-C	6.46	118.12	111.14
2	d	237	VAL	CB-CA-C	-6.46	100.69	111.29
1	J	280	THR	N-CA-C	-6.46	99.49	109.24
2	X	237	VAL	CB-CA-C	-6.46	100.70	111.29
2	T	164	ASN	CA-C-N	6.46	127.91	119.84
2	T	164	ASN	C-N-CA	6.46	127.91	119.84
3	e	37	LEU	N-CA-C	6.46	124.55	110.80
1	G	1122	MET	N-CA-C	6.45	124.54	110.80
2	Q	164	ASN	CA-C-N	6.45	127.90	119.84
2	Q	164	ASN	C-N-CA	6.45	127.90	119.84
2	T	186	LEU	N-CA-C	-6.45	98.69	109.07
1	M	1316	GLY	N-CA-C	6.45	120.06	111.03
1	G	1331	ALA	N-CA-C	-6.45	99.32	109.50
3	V	135	ARG	N-CA-C	6.44	119.58	110.50
2	a	237	VAL	CB-CA-C	-6.43	100.74	111.29
1	K	378	GLU	N-CA-C	6.43	119.09	108.99
3	e	301	CYS	N-CA-C	-6.43	104.27	111.28
3	V	458	ARG	CA-C-N	6.43	125.66	118.97
3	V	458	ARG	C-N-CA	6.43	125.66	118.97
1	N	291	SER	N-CA-C	6.42	120.73	112.12
1	N	567	GLY	CA-C-N	-6.42	113.15	119.90
1	N	567	GLY	C-N-CA	-6.42	113.15	119.90
1	E	1159	PRO	N-CA-C	6.42	121.73	111.26
4	s	18	ARG	N-CA-C	-6.42	104.28	111.28
1	O	1148	ARG	N-CA-C	6.42	117.94	111.07
2	c	164	ASN	CA-C-N	6.42	127.86	119.84
2	c	164	ASN	C-N-CA	6.42	127.86	119.84
2	U	237	VAL	CB-CA-C	-6.41	100.77	111.29
2	Z	164	ASN	CA-C-N	6.41	127.86	119.84
2	Z	164	ASN	C-N-CA	6.41	127.86	119.84
1	M	1236	ARG	CA-C-N	-6.41	113.54	119.82
1	M	1236	ARG	C-N-CA	-6.41	113.54	119.82

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	b	301	CYS	N-CA-C	-6.40	103.81	111.69
1	I	1248	GLN	N-CA-C	-6.40	97.64	108.26
1	L	396	GLY	N-CA-C	6.40	124.17	112.27
1	F	916	ALA	N-CA-C	-6.40	101.65	110.35
1	E	520	TRP	N-CA-C	6.40	120.55	112.87
1	M	1125	LEU	N-CA-C	6.40	118.90	109.50
1	O	1104	VAL	N-CA-C	6.40	119.08	111.09
1	A	1135	ALA	N-CA-C	6.39	118.90	110.08
1	B	445	LYS	CA-C-N	6.39	133.75	121.54
1	B	445	LYS	C-N-CA	6.39	133.75	121.54
2	R	238	ASN	CA-C-N	6.39	129.37	120.29
2	R	238	ASN	C-N-CA	6.39	129.37	120.29
1	O	556	VAL	N-CA-C	-6.39	100.41	108.84
1	N	1123	GLY	N-CA-C	6.38	128.31	113.18
2	X	238	ASN	CA-C-N	6.38	129.35	120.29
2	X	238	ASN	C-N-CA	6.38	129.35	120.29
1	A	1227	TYR	N-CA-C	6.38	122.02	113.72
2	W	164	ASN	CA-C-N	6.38	127.81	119.84
2	W	164	ASN	C-N-CA	6.38	127.81	119.84
1	C	1204	ASN	N-CA-C	6.38	118.66	109.48
1	K	1160	ALA	N-CA-C	-6.38	104.33	111.28
1	J	751	HIS	N-CA-C	6.37	119.18	109.62
1	L	481	VAL	N-CA-C	6.37	118.93	108.99
1	M	191	LYS	N-CA-C	6.37	121.20	113.17
1	D	522	ALA	N-CA-C	-6.37	105.36	113.01
1	A	374	LEU	CA-C-N	-6.37	114.27	123.06
1	A	374	LEU	C-N-CA	-6.37	114.27	123.06
2	a	238	ASN	CA-C-N	6.37	129.33	120.29
2	a	238	ASN	C-N-CA	6.37	129.33	120.29
2	d	238	ASN	CA-C-N	6.37	129.33	120.29
2	d	238	ASN	C-N-CA	6.37	129.33	120.29
1	G	1077	GLN	O-C-N	6.36	131.15	123.13
1	F	272	ARG	CA-C-N	-6.36	113.22	119.78
1	F	272	ARG	C-N-CA	-6.36	113.22	119.78
2	a	128	VAL	N-CA-C	-6.36	98.58	107.80
2	U	238	ASN	CA-C-N	6.35	129.31	120.29
2	U	238	ASN	C-N-CA	6.35	129.31	120.29
1	L	955	PHE	N-CA-C	6.35	119.75	109.40
1	P	28	GLU	N-CA-C	-6.35	104.36	111.28
1	J	304	VAL	N-CA-CB	-6.35	102.89	112.35
1	K	757	ASP	N-CA-C	6.35	124.32	110.80
1	J	1170	GLN	N-CA-C	6.34	119.24	108.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	L	271	GLY	N-CA-C	6.34	123.79	115.36
1	B	1198	TYR	N-CA-C	-6.34	97.33	108.23
1	P	1163	LEU	N-CA-C	6.34	117.69	109.64
1	B	745	HIS	N-CA-C	6.33	120.26	112.54
1	O	784	LEU	N-CA-C	6.33	119.03	108.20
1	G	242	GLU	N-CA-CB	6.33	121.19	110.49
1	G	832	PHE	CA-C-N	-6.33	111.83	120.44
1	G	832	PHE	C-N-CA	-6.33	111.83	120.44
1	D	449	VAL	N-CA-C	-6.33	99.31	108.36
1	I	511	GLN	CB-CA-C	-6.32	99.54	109.34
1	N	1275	LYS	CA-C-N	6.32	129.27	120.29
1	N	1275	LYS	C-N-CA	6.32	129.27	120.29
1	B	522	ALA	N-CA-C	-6.32	104.39	111.28
1	M	264	LEU	N-CA-C	-6.32	102.72	111.81
1	L	1319	GLU	N-CA-C	6.31	123.08	113.61
1	G	1251	SER	N-CA-C	6.31	117.43	108.54
1	O	1159	PRO	N-CA-C	6.31	121.09	111.19
1	P	147	ALA	CA-C-N	-6.31	113.03	123.37
1	P	147	ALA	C-N-CA	-6.31	113.03	123.37
3	V	31	ALA	N-CA-C	-6.31	104.87	113.57
1	J	236	LYS	N-CA-C	-6.30	104.49	111.36
1	I	1222	VAL	CA-C-N	6.30	133.31	121.97
1	I	1222	VAL	C-N-CA	6.30	133.31	121.97
1	L	525	GLN	N-CA-C	6.30	119.41	109.96
1	O	557	GLU	N-CA-C	-6.30	98.98	109.24
1	A	377	LEU	N-CA-C	-6.29	99.76	109.76
4	p	5	GLN	CA-C-N	6.29	132.56	121.80
4	p	5	GLN	C-N-CA	6.29	132.56	121.80
1	F	47	ASN	N-CA-C	6.29	124.20	110.80
1	J	554	ALA	N-CA-C	6.29	119.35	111.24
2	Q	185	ARG	N-CA-C	-6.29	97.45	108.20
1	O	27	ILE	N-CA-C	-6.28	99.54	108.65
1	G	564	PRO	CA-C-N	-6.28	113.31	119.90
1	G	564	PRO	C-N-CA	-6.28	113.31	119.90
1	C	1346	ALA	CA-C-N	6.28	133.00	121.94
1	C	1346	ALA	C-N-CA	6.28	133.00	121.94
1	I	521	VAL	N-CA-C	-6.28	106.88	112.90
4	s	5	GLN	CA-C-N	6.27	132.53	121.80
4	s	5	GLN	C-N-CA	6.27	132.53	121.80
4	n	5	GLN	CA-C-N	6.27	132.52	121.80
4	n	5	GLN	C-N-CA	6.27	132.52	121.80
1	G	801	ARG	N-CA-C	6.27	117.60	109.64

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	G	859	THR	CB-CA-C	-6.27	98.49	109.02
4	g	5	GLN	CA-C-N	6.27	132.52	121.80
4	g	5	GLN	C-N-CA	6.27	132.52	121.80
4	l	5	GLN	CA-C-N	6.27	132.52	121.80
4	l	5	GLN	C-N-CA	6.27	132.52	121.80
1	C	356	SER	N-CA-C	6.27	124.15	110.80
4	f	5	GLN	CA-C-N	6.26	132.51	121.80
4	f	5	GLN	C-N-CA	6.26	132.51	121.80
4	q	5	GLN	CA-C-N	6.26	132.51	121.80
4	q	5	GLN	C-N-CA	6.26	132.51	121.80
1	H	1200	ARG	N-CA-C	-6.26	104.86	113.56
1	C	465	SER	N-CA-C	-6.26	105.96	113.97
1	J	433	ARG	N-CA-C	-6.26	105.74	113.19
4	m	5	GLN	CA-C-N	6.26	132.51	121.80
4	m	5	GLN	C-N-CA	6.26	132.51	121.80
1	D	445	LYS	CA-C-N	6.26	133.50	121.54
1	D	445	LYS	C-N-CA	6.26	133.50	121.54
4	h	5	GLN	CA-C-N	6.26	132.50	121.80
4	h	5	GLN	C-N-CA	6.26	132.50	121.80
4	j	5	GLN	CA-C-N	6.26	132.50	121.80
4	j	5	GLN	C-N-CA	6.26	132.50	121.80
4	r	5	GLN	CA-C-N	6.26	132.50	121.80
4	r	5	GLN	C-N-CA	6.26	132.50	121.80
4	t	5	GLN	CA-C-N	6.26	132.50	121.80
4	t	5	GLN	C-N-CA	6.26	132.50	121.80
3	e	200	ALA	CA-C-N	-6.25	113.56	122.94
3	e	200	ALA	C-N-CA	-6.25	113.56	122.94
1	J	1118	PRO	N-CA-C	-6.25	99.59	112.47
3	S	275	HIS	N-CA-CB	6.25	119.71	110.33
4	i	5	GLN	CA-C-N	6.25	132.49	121.80
4	i	5	GLN	C-N-CA	6.25	132.49	121.80
1	K	349	GLU	N-CA-C	-6.25	97.48	108.23
3	S	438	ARG	N-CA-C	6.25	120.80	112.30
3	Y	243	GLU	CA-C-N	6.25	133.22	121.97
3	Y	243	GLU	C-N-CA	6.25	133.22	121.97
1	B	305	THR	N-CA-C	-6.25	100.79	110.10
3	S	243	GLU	CA-C-N	6.25	133.21	121.97
3	S	243	GLU	C-N-CA	6.25	133.21	121.97
1	B	297	ASP	N-CA-C	6.24	119.53	109.79
1	B	148	LEU	N-CA-C	6.24	119.12	109.07
1	M	1227	TYR	N-CA-C	6.24	121.18	113.50
4	k	5	GLN	CA-C-N	6.24	132.47	121.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	k	5	GLN	C-N-CA	6.24	132.47	121.80
4	t	103	VAL	N-CA-C	-6.24	96.37	109.34
1	M	192	ALA	CA-C-N	-6.24	115.17	119.66
1	M	192	ALA	C-N-CA	-6.24	115.17	119.66
1	N	1253	GLY	N-CA-C	-6.24	106.71	115.32
2	T	194	GLN	N-CA-C	-6.24	104.48	111.28
3	b	432	SER	N-CA-C	6.24	123.59	109.81
1	F	448	GLN	CB-CA-C	-6.23	99.37	109.72
1	M	110	HIS	CB-CA-C	-6.23	101.49	110.03
1	N	302	VAL	N-CA-C	6.23	122.34	108.88
4	o	5	GLN	CA-C-N	6.23	132.46	121.80
4	o	5	GLN	C-N-CA	6.23	132.46	121.80
4	t	8	ARG	C-N-CD	-6.23	106.89	120.60
1	C	1034	VAL	CB-CA-C	-6.23	103.86	112.02
3	b	243	GLU	CA-C-N	6.23	133.18	121.97
3	b	243	GLU	C-N-CA	6.23	133.18	121.97
3	e	38	ARG	CA-C-N	-6.23	113.97	120.38
3	e	38	ARG	C-N-CA	-6.23	113.97	120.38
1	O	1228	ASP	N-CA-C	-6.22	95.36	107.62
1	K	357	ALA	CA-C-N	-6.22	114.36	120.52
1	K	357	ALA	C-N-CA	-6.22	114.36	120.52
1	J	543	LEU	N-CA-C	6.22	121.75	114.04
1	A	36	PHE	N-CA-C	6.22	120.41	109.96
2	U	38	ARG	N-CA-C	6.22	119.16	109.52
1	N	110	HIS	CA-C-N	-6.22	113.36	119.76
1	N	110	HIS	C-N-CA	-6.22	113.36	119.76
3	Y	90	ILE	N-CA-C	-6.21	103.34	112.04
1	A	395	VAL	N-CA-C	-6.21	96.42	109.34
3	V	262	SER	N-CA-C	-6.21	97.15	108.02
3	e	243	GLU	CA-C-N	6.21	133.15	121.97
3	e	243	GLU	C-N-CA	6.21	133.15	121.97
1	O	1349	GLY	N-CA-C	-6.21	101.62	112.55
1	N	1242	ALA	N-CA-C	-6.21	105.36	113.12
3	S	262	SER	N-CA-C	-6.21	97.15	108.02
1	D	1084	GLU	CA-C-N	6.21	133.40	121.54
1	D	1084	GLU	C-N-CA	6.21	133.40	121.54
1	O	192	ALA	CA-C-N	-6.21	113.99	120.38
1	O	192	ALA	C-N-CA	-6.21	113.99	120.38
2	Q	194	GLN	N-CA-C	-6.20	104.52	111.28
2	W	194	GLN	N-CA-C	-6.20	104.52	111.28
1	I	1118	PRO	N-CA-C	6.20	121.71	113.40
1	M	558	LEU	CA-C-N	-6.20	112.09	119.84

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	M	558	LEU	C-N-CA	-6.20	112.09	119.84
1	P	377	LEU	N-CA-C	-6.20	102.19	110.55
3	Y	262	SER	N-CA-C	-6.19	97.18	108.02
3	b	262	SER	N-CA-C	-6.19	97.18	108.02
1	G	1203	CYS	CA-C-N	6.19	129.49	120.51
1	G	1203	CYS	C-N-CA	6.19	129.49	120.51
1	F	427	PRO	N-CA-C	6.19	122.97	113.75
3	e	262	SER	N-CA-C	-6.19	97.19	108.02
1	I	1246	ALA	O-C-N	-6.19	116.76	123.26
1	N	1104	VAL	N-CA-C	6.19	116.97	110.72
1	B	509	TRP	N-CA-C	6.19	119.53	112.97
1	A	383	ARG	N-CA-C	6.18	118.10	111.36
1	K	451	ARG	N-CA-C	6.18	118.81	109.23
3	V	243	GLU	CA-C-N	6.18	133.09	121.97
3	V	243	GLU	C-N-CA	6.18	133.09	121.97
2	c	194	GLN	N-CA-C	-6.18	104.55	111.28
3	e	6	LEU	N-CA-C	-6.18	104.39	113.16
1	G	298	THR	N-CA-C	-6.17	99.65	109.59
1	F	1241	THR	CB-CA-C	-6.17	99.14	110.62
1	G	325	ALA	N-CA-C	-6.17	103.15	111.54
1	C	1291	ARG	N-CA-C	6.17	118.97	111.82
1	L	1302	THR	N-CA-C	-6.17	105.34	112.92
3	b	296	LEU	N-CA-C	-6.17	98.58	109.06
3	Y	38	ARG	CA-C-N	-6.16	114.03	120.38
3	Y	38	ARG	C-N-CA	-6.16	114.03	120.38
2	Z	194	GLN	N-CA-C	-6.16	104.56	111.28
1	M	429	HIS	N-CA-C	6.16	119.06	110.07
1	M	1243	ASN	CA-C-N	-6.16	113.88	120.47
1	M	1243	ASN	C-N-CA	-6.16	113.88	120.47
1	N	446	ASP	N-CA-C	6.15	120.73	113.23
1	E	1227	TYR	N-CA-C	6.15	120.81	113.12
1	J	558	LEU	N-CA-C	6.15	121.89	113.16
1	N	564	PRO	CA-C-N	-6.15	113.18	120.13
1	N	564	PRO	C-N-CA	-6.15	113.18	120.13
2	Z	179	LEU	N-CA-C	6.15	119.87	111.39
1	G	292	PHE	N-CA-C	6.14	120.39	112.41
1	A	1300	VAL	N-CA-C	-6.14	101.63	109.30
1	G	1068	ARG	N-CA-C	6.14	123.87	110.80
1	K	467	MET	N-CA-C	6.13	120.90	113.17
1	M	1155	ASN	CA-C-N	6.13	130.96	120.72
1	M	1155	ASN	C-N-CA	6.13	130.96	120.72
1	H	1115	VAL	N-CA-C	6.13	122.09	109.34

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	I	1199	PHE	N-CA-C	6.13	120.36	113.01
1	H	14	ALA	CB-CA-C	-6.12	101.74	111.48
1	L	759	GLY	N-CA-C	6.12	127.69	113.18
1	F	271	GLY	N-CA-C	6.12	123.50	115.36
1	G	740	ASP	N-CA-C	6.12	117.95	111.28
1	G	1286	HIS	N-CA-C	-6.12	100.45	109.81
1	D	1079	GLN	N-CA-C	6.12	118.07	110.91
1	J	399	ASP	N-CA-C	-6.12	98.66	109.06
1	L	71	LEU	N-CA-C	-6.12	105.46	113.17
1	O	786	ASN	N-CA-C	6.12	119.12	109.39
3	b	37	LEU	N-CA-C	6.12	119.34	109.86
1	P	530	GLN	N-CA-C	-6.12	104.89	112.90
1	B	1200	ARG	N-CA-C	-6.11	103.01	111.81
1	H	1114	THR	N-CA-C	6.11	123.82	110.80
1	K	1251	SER	N-CA-C	-6.11	102.64	110.53
1	L	427	PRO	N-CA-C	6.11	122.86	113.75
1	G	752	ARG	N-CA-C	-6.11	104.55	112.68
1	N	1084	GLU	N-CA-C	6.11	119.50	110.46
1	P	30	ALA	N-CA-CB	6.11	118.72	110.59
1	P	844	VAL	CA-C-N	-6.11	114.47	120.52
1	P	844	VAL	C-N-CA	-6.11	114.47	120.52
1	C	383	ARG	N-CA-C	6.11	117.94	111.28
1	P	307	GLY	N-CA-C	-6.11	103.17	112.51
1	G	330	ASP	N-CA-C	-6.11	104.63	111.28
1	C	290	GLN	N-CA-C	-6.10	94.94	107.70
1	F	7	ASP	CA-C-N	-6.10	114.09	120.38
1	F	7	ASP	C-N-CA	-6.10	114.09	120.38
1	O	34	ARG	CB-CA-C	-6.10	98.28	110.42
2	R	71	PHE	N-CA-C	6.10	120.32	108.85
3	Y	351	ARG	N-CA-C	6.10	117.93	109.15
1	A	562	GLU	N-CA-C	-6.10	104.57	112.68
1	P	453	SER	N-CA-C	-6.10	100.06	109.14
1	G	329	LEU	N-CA-C	-6.10	104.94	112.38
1	P	303	PRO	CA-N-CD	-6.09	103.47	112.00
1	I	564	PRO	CA-C-N	-6.09	113.67	119.76
1	I	564	PRO	C-N-CA	-6.09	113.67	119.76
1	A	253	THR	N-CA-C	6.09	120.45	111.87
1	D	461	VAL	N-CA-C	6.09	116.87	110.72
1	B	52	VAL	N-CA-C	6.08	117.48	109.21
2	d	71	PHE	N-CA-C	6.08	120.28	108.85
1	C	533	GLN	O-C-N	6.08	128.31	121.32
1	H	1241	THR	CB-CA-C	-6.08	99.31	110.62

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	J	467	MET	N-CA-C	6.08	117.91	111.28
1	M	1348	ASP	N-CA-C	-6.08	104.73	111.36
2	X	71	PHE	N-CA-C	6.08	120.28	108.85
4	r	98	TYR	CA-C-N	-6.08	115.80	123.15
4	r	98	TYR	C-N-CA	-6.08	115.80	123.15
1	H	821	SER	N-CA-C	6.07	117.98	111.36
1	K	486	PRO	N-CA-C	-6.07	99.96	112.47
1	G	210	LEU	CA-C-N	6.06	131.44	121.99
1	G	210	LEU	C-N-CA	6.06	131.44	121.99
1	J	913	ALA	CA-C-N	-6.06	114.03	120.03
1	J	913	ALA	C-N-CA	-6.06	114.03	120.03
2	U	71	PHE	N-CA-C	6.05	120.22	108.85
4	t	11	THR	N-CA-C	6.05	121.47	112.94
1	O	1226	MET	N-CA-C	-6.05	100.33	109.95
3	b	290	ALA	N-CA-C	-6.05	101.33	110.28
1	E	1251	SER	N-CA-C	-6.05	102.73	110.53
1	I	289	LEU	N-CA-C	6.05	117.87	111.28
1	J	788	GLN	CA-C-N	-6.05	111.96	122.36
1	J	788	GLN	C-N-CA	-6.05	111.96	122.36
3	S	93	GLY	N-CA-C	-6.05	105.47	112.73
1	F	86	GLU	N-CA-C	6.04	120.51	111.81
1	P	1265	GLY	N-CA-C	-6.04	107.42	115.40
1	B	1218	LYS	CA-C-N	6.04	133.08	121.54
1	B	1218	LYS	C-N-CA	6.04	133.08	121.54
1	N	377	LEU	N-CA-C	-6.04	99.55	109.40
1	P	448	GLN	N-CA-C	-6.04	99.34	109.07
2	a	76	THR	N-CA-C	6.04	117.95	111.36
1	E	253	THR	N-CA-C	6.04	119.40	112.57
1	G	565	PRO	N-CA-C	-6.04	101.68	110.80
1	J	1161	GLN	CA-C-N	-6.04	114.39	120.31
1	J	1161	GLN	C-N-CA	-6.04	114.39	120.31
1	P	786	ASN	N-CA-C	6.04	118.62	107.99
1	I	7	ASP	CA-C-N	-6.04	114.16	120.38
1	I	7	ASP	C-N-CA	-6.04	114.16	120.38
1	L	471	ALA	N-CA-C	-6.04	104.70	111.28
1	H	481	VAL	N-CA-C	6.03	116.62	110.05
1	G	291	SER	N-CA-C	6.02	117.84	111.28
1	K	454	MET	N-CA-C	-6.02	105.59	113.17
1	J	750	ARG	N-CA-C	6.02	120.62	113.28
1	N	297	ASP	N-CA-C	-6.01	105.24	112.58
3	e	139	ASP	N-CA-C	-6.01	99.39	109.07
1	P	1330	GLU	CB-CA-C	-6.01	98.94	110.24

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	a	90	LEU	N-CA-C	-6.01	104.73	111.28
4	r	49	ALA	N-CA-C	-6.01	104.66	112.23
1	O	191	LYS	N-CA-C	-6.00	98.73	108.52
3	V	40	PRO	N-CA-C	-6.00	106.64	114.03
1	F	1112	THR	CB-CA-C	-6.00	101.18	110.78
1	J	188	LEU	N-CA-C	-6.00	104.82	111.36
3	e	352	ILE	N-CA-C	-6.00	94.20	111.00
1	G	424	VAL	N-CA-C	-6.00	102.36	108.96
1	M	1326	GLY	N-CA-C	-6.00	98.97	113.18
4	l	49	ALA	N-CA-C	-6.00	104.68	112.23
4	o	49	ALA	N-CA-C	-6.00	104.68	112.23
1	G	208	GLY	N-CA-C	-5.99	98.99	113.18
1	F	1317	CYS	N-CA-C	5.99	118.20	108.08
1	N	1240	ALA	N-CA-C	5.99	117.61	111.14
4	k	49	ALA	N-CA-C	-5.99	104.69	112.23
1	M	761	HIS	CA-C-N	-5.98	111.99	120.49
1	M	761	HIS	C-N-CA	-5.98	111.99	120.49
1	J	375	VAL	N-CA-C	-5.98	96.90	109.34
2	a	78	VAL	N-CA-C	-5.98	99.74	108.11
1	M	435	PHE	N-CA-C	-5.97	102.57	110.40
1	O	749	ASP	CA-C-N	5.97	128.77	120.29
1	O	749	ASP	C-N-CA	5.97	128.77	120.29
4	t	49	ALA	N-CA-C	-5.97	104.70	112.23
1	G	309	MET	N-CA-C	5.97	118.69	109.07
1	H	758	ALA	N-CA-C	-5.97	98.08	110.80
1	K	429	HIS	N-CA-C	5.97	119.35	110.39
1	D	1221	ASP	CA-C-N	-5.97	112.86	120.98
1	D	1221	ASP	C-N-CA	-5.97	112.86	120.98
1	A	1283	THR	N-CA-C	-5.97	102.49	110.55
1	G	953	GLU	N-CA-C	5.96	120.69	111.56
1	N	309	MET	CA-C-N	-5.96	114.70	122.51
1	N	309	MET	C-N-CA	-5.96	114.70	122.51
4	q	49	ALA	N-CA-C	-5.96	104.72	112.23
4	s	49	ALA	N-CA-C	-5.96	104.72	112.23
4	f	49	ALA	N-CA-C	-5.96	104.72	112.23
1	N	818	PRO	CA-C-N	5.96	128.26	120.28
1	N	818	PRO	C-N-CA	5.96	128.26	120.28
1	D	14	ALA	CA-C-N	5.96	132.91	121.54
1	D	14	ALA	C-N-CA	5.96	132.91	121.54
1	C	122	LYS	N-CA-C	5.95	119.22	109.76
1	D	306	TYR	N-CA-C	5.95	118.86	110.23
4	m	49	ALA	N-CA-C	-5.95	104.74	112.23

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	p	49	ALA	N-CA-C	-5.95	104.73	112.23
4	n	49	ALA	N-CA-C	-5.95	104.74	112.23
1	A	72	GLU	N-CA-C	-5.95	98.14	110.80
1	C	362	ARG	N-CA-C	-5.94	98.40	108.26
1	D	538	ASN	N-CA-C	5.94	117.76	111.28
3	b	447	VAL	CA-C-N	-5.94	113.66	119.90
3	b	447	VAL	C-N-CA	-5.94	113.66	119.90
1	M	526	MET	N-CA-C	5.94	121.31	112.94
2	Q	301	ASP	N-CA-C	-5.94	103.20	111.39
1	B	1158	GLY	CA-C-N	-5.93	113.86	119.85
1	B	1158	GLY	C-N-CA	-5.93	113.86	119.85
1	N	15	ALA	N-CA-C	-5.93	105.62	114.64
1	F	232	PHE	N-CA-C	-5.93	103.47	111.54
1	K	534	PRO	CB-CA-C	-5.93	104.17	111.11
1	L	140	ILE	N-CA-C	-5.93	101.92	109.80
1	N	451	ARG	N-CA-C	5.93	118.13	108.76
1	M	210	LEU	CA-C-N	5.92	128.70	120.29
1	M	210	LEU	C-N-CA	5.92	128.70	120.29
3	e	108	TYR	N-CA-CB	-5.92	101.82	111.24
4	h	49	ALA	N-CA-C	-5.92	104.77	112.23
4	i	49	ALA	N-CA-C	-5.92	104.77	112.23
1	I	1198	TYR	N-CA-C	-5.92	104.83	111.28
1	I	838	THR	CA-C-N	-5.92	112.39	120.44
1	I	838	THR	C-N-CA	-5.92	112.39	120.44
1	G	152	GLY	N-CA-C	5.92	127.20	113.18
1	G	1296	THR	N-CA-C	-5.92	104.91	111.36
1	O	26	THR	N-CA-C	-5.92	97.52	107.99
1	N	357	ALA	N-CA-C	-5.92	98.73	109.44
2	Z	301	ASP	N-CA-C	-5.92	103.22	111.39
4	g	49	ALA	N-CA-C	-5.92	104.77	112.23
1	L	537	ALA	N-CA-C	-5.92	105.91	113.01
4	j	49	ALA	N-CA-C	-5.91	104.78	112.23
1	N	56	ALA	N-CA-C	5.91	118.84	109.50
1	C	1317	CYS	N-CA-C	5.91	119.45	109.76
1	E	1085	THR	N-CA-CB	5.91	120.47	110.49
1	M	915	ASP	N-CA-C	5.91	117.52	110.19
1	P	918	ALA	N-CA-C	5.91	117.72	111.28
3	V	110	LEU	N-CA-C	-5.91	99.37	109.24
2	c	301	ASP	N-CA-C	-5.91	103.24	111.39
3	b	427	VAL	CB-CA-C	-5.91	103.70	110.73
3	S	108	TYR	N-CA-CB	-5.90	101.86	111.24
1	O	1158	GLY	CA-C-N	-5.90	113.86	119.76

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	O	1158	GLY	C-N-CA	-5.90	113.86	119.76
1	O	1241	THR	N-CA-C	5.90	117.18	108.86
1	P	863	HIS	N-CA-C	-5.90	98.83	109.09
3	S	110	LEU	N-CA-C	-5.90	99.39	109.24
1	D	56	ALA	N-CA-C	5.90	119.17	109.85
1	M	302	VAL	C-N-CD	-5.90	100.82	125.00
2	W	301	ASP	N-CA-C	-5.90	103.25	111.39
1	M	1087	GLY	N-CA-C	-5.90	99.20	113.18
2	a	160	ILE	CB-CA-C	-5.90	104.18	112.14
1	N	152	GLY	N-CA-C	-5.89	105.52	113.24
2	R	231	SER	CA-C-N	5.89	133.02	122.06
2	R	231	SER	C-N-CA	5.89	133.02	122.06
2	a	131	GLU	N-CA-C	5.89	117.70	111.28
1	C	948	THR	N-CA-C	-5.89	104.23	112.12
3	Y	108	TYR	N-CA-CB	-5.89	101.88	111.24
3	e	110	LEU	N-CA-C	-5.89	99.41	109.24
1	B	264	LEU	N-CA-C	-5.88	103.49	111.55
1	H	1120	THR	N-CA-C	-5.88	101.58	110.28
1	A	754	CYS	N-CA-C	-5.88	98.83	108.76
4	t	109	PRO	N-CA-C	5.88	119.68	110.80
1	G	860	ASP	N-CA-C	-5.88	100.11	109.04
3	Y	110	LEU	N-CA-C	-5.87	99.43	109.24
1	I	567	GLY	CA-C-N	-5.87	113.49	119.83
1	I	567	GLY	C-N-CA	-5.87	113.49	119.83
3	V	285	ALA	N-CA-C	5.87	117.23	108.31
1	G	407	GLY	N-CA-C	5.87	127.09	113.18
1	B	48	SER	N-CA-C	-5.87	104.73	112.24
1	O	355	GLU	N-CA-C	5.87	123.30	110.80
3	S	139	ASP	N-CA-C	-5.87	102.63	110.55
2	T	301	ASP	N-CA-C	-5.87	103.29	111.39
1	P	13	TYR	N-CA-C	-5.87	100.15	109.59
3	V	108	TYR	N-CA-CB	-5.86	101.92	111.24
3	Y	428	MET	N-CA-C	-5.86	96.08	108.39
1	B	18	VAL	CA-C-N	-5.86	114.23	120.03
1	B	18	VAL	C-N-CA	-5.86	114.23	120.03
1	J	1194	THR	N-CA-C	-5.86	101.73	110.23
1	H	917	GLY	N-CA-C	-5.86	107.72	114.69
1	L	1074	PHE	N-CA-C	-5.86	99.35	108.90
1	M	193	PRO	CB-CA-C	-5.86	105.66	111.17
2	a	231	SER	CA-C-N	5.86	132.98	122.38
2	a	231	SER	C-N-CA	5.86	132.98	122.38
3	e	257	GLN	CA-C-N	-5.86	112.53	122.66

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	e	257	GLN	C-N-CA	-5.86	112.53	122.66
1	C	1332	TYR	CA-C-N	-5.86	113.90	119.76
1	C	1332	TYR	C-N-CA	-5.86	113.90	119.76
1	F	1115	VAL	CB-CA-C	-5.86	104.14	112.22
1	H	1115	VAL	N-CA-CB	5.86	120.89	111.23
1	J	353	GLU	N-CA-C	5.85	118.17	108.99
1	K	446	ASP	CA-C-N	-5.85	113.22	122.23
1	K	446	ASP	C-N-CA	-5.85	113.22	122.23
2	X	231	SER	CA-C-N	5.85	132.97	122.38
2	X	231	SER	C-N-CA	5.85	132.97	122.38
2	U	231	SER	CA-C-N	5.85	132.96	122.38
2	U	231	SER	C-N-CA	5.85	132.96	122.38
3	V	257	GLN	CA-C-N	-5.85	112.54	122.66
3	V	257	GLN	C-N-CA	-5.85	112.54	122.66
1	D	1133	ARG	N-CA-C	5.85	118.14	108.49
1	H	1147	LEU	CA-CB-CG	5.85	136.76	116.30
2	R	162	ASP	N-CA-C	5.85	119.51	112.38
3	S	428	MET	N-CA-C	-5.84	96.11	108.39
3	b	334	LEU	CA-C-N	-5.84	115.45	119.66
3	b	334	LEU	C-N-CA	-5.84	115.45	119.66
3	e	428	MET	N-CA-C	-5.84	96.12	108.39
1	J	14	ALA	CA-C-N	5.84	129.19	120.31
1	J	14	ALA	C-N-CA	5.84	129.19	120.31
1	N	255	THR	N-CA-C	5.84	118.75	109.81
1	G	424	VAL	CB-CA-C	-5.84	105.16	110.88
4	p	105	ASP	CA-C-N	-5.84	112.90	118.97
4	p	105	ASP	C-N-CA	-5.84	112.90	118.97
3	V	428	MET	N-CA-C	-5.84	96.13	108.39
1	P	357	ALA	CA-C-N	-5.83	113.77	119.78
1	P	357	ALA	C-N-CA	-5.83	113.77	119.78
1	O	1070	SER	CB-CA-C	-5.83	99.84	110.63
1	J	1122	MET	N-CA-C	5.83	125.21	113.31
1	M	1216	GLY	CA-C-N	-5.83	114.95	123.93
1	M	1216	GLY	C-N-CA	-5.83	114.95	123.93
3	b	166	GLU	CB-CA-C	-5.83	101.72	110.88
3	S	257	GLN	CA-C-N	-5.83	112.58	122.66
3	S	257	GLN	C-N-CA	-5.83	112.58	122.66
4	q	106	PRO	N-CA-C	-5.83	105.43	113.53
1	L	1365	ASP	N-CA-C	5.83	118.70	109.96
1	O	1226	MET	CG-SD-CE	5.83	113.72	100.90
3	V	443	GLY	N-CA-C	-5.83	100.90	111.16
2	d	231	SER	CA-C-N	5.83	132.93	122.38

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	d	231	SER	C-N-CA	5.83	132.93	122.38
1	L	114	GLN	N-CA-C	-5.82	98.98	108.82
1	L	202	GLN	CA-C-N	5.82	128.08	120.28
1	L	202	GLN	C-N-CA	5.82	128.08	120.28
1	M	383	ARG	N-CA-C	-5.82	104.32	112.12
1	N	203	ARG	N-CA-C	-5.82	105.76	112.92
1	N	760	GLY	CA-C-N	-5.82	112.71	120.63
1	N	760	GLY	C-N-CA	-5.82	112.71	120.63
4	n	98	TYR	N-CA-C	5.82	123.21	110.80
1	M	415	ARG	CB-CG-CD	-5.82	97.91	111.30
2	Q	163	LEU	CA-C-N	-5.82	114.76	122.56
2	Q	163	LEU	C-N-CA	-5.82	114.76	122.56
1	A	310	VAL	N-CA-C	-5.82	99.97	108.11
1	E	1084	GLU	N-CA-C	5.82	117.91	108.08
2	W	163	LEU	CA-C-N	-5.82	114.77	122.56
2	W	163	LEU	C-N-CA	-5.82	114.77	122.56
1	K	1348	ASP	N-CA-CB	-5.82	101.58	110.01
1	L	482	GLU	N-CA-C	-5.81	100.52	109.76
3	b	257	GLN	CA-C-N	-5.81	112.60	122.66
3	b	257	GLN	C-N-CA	-5.81	112.60	122.66
1	K	532	MET	CA-C-N	5.81	127.35	120.09
1	K	532	MET	C-N-CA	5.81	127.35	120.09
2	Z	163	LEU	CA-C-N	-5.81	114.78	122.56
2	Z	163	LEU	C-N-CA	-5.81	114.78	122.56
1	J	1124	ASN	N-CA-C	5.80	124.90	113.29
1	A	821	SER	N-CA-C	5.80	117.68	111.36
1	A	1298	SER	CA-C-N	5.80	132.62	121.54
1	A	1298	SER	C-N-CA	5.80	132.62	121.54
1	J	919	ASN	N-CA-C	-5.80	97.72	107.99
1	N	383	ARG	N-CA-C	5.80	117.28	111.07
1	D	1171	VAL	CA-C-N	-5.80	113.57	119.83
1	D	1171	VAL	C-N-CA	-5.80	113.57	119.83
1	I	1236	ARG	CA-C-N	-5.80	113.78	120.04
1	I	1236	ARG	C-N-CA	-5.80	113.78	120.04
3	Y	257	GLN	CA-C-N	-5.80	112.63	122.66
3	Y	257	GLN	C-N-CA	-5.80	112.63	122.66
3	e	304	GLY	CA-C-N	-5.80	113.81	119.90
3	e	304	GLY	C-N-CA	-5.80	113.81	119.90
1	G	148	LEU	N-CA-C	-5.79	104.96	111.28
2	T	163	LEU	CA-C-N	-5.79	114.80	122.56
2	T	163	LEU	C-N-CA	-5.79	114.80	122.56
3	e	35	ARG	CA-C-N	5.79	129.21	120.75

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	e	35	ARG	C-N-CA	5.79	129.21	120.75
1	B	1222	VAL	N-CA-C	-5.79	102.11	109.58
1	I	817	VAL	CA-C-N	-5.79	112.91	119.28
1	I	817	VAL	C-N-CA	-5.79	112.91	119.28
2	a	83	ILE	N-CA-C	-5.79	99.30	107.75
1	G	1205	PRO	N-CA-C	5.79	121.58	113.53
4	o	6	PHE	N-CA-C	-5.79	100.15	108.60
2	c	163	LEU	CA-C-N	-5.79	114.81	122.56
2	c	163	LEU	C-N-CA	-5.79	114.81	122.56
1	I	1347	ARG	CA-C-N	5.79	132.59	121.54
1	I	1347	ARG	C-N-CA	5.79	132.59	121.54
1	D	1083	HIS	N-CA-C	5.78	119.53	111.90
1	G	1297	GLY	N-CA-C	-5.78	105.79	112.73
1	J	14	ALA	N-CA-C	5.78	117.58	111.28
1	K	1347	ARG	CA-C-N	5.78	127.95	120.44
1	K	1347	ARG	C-N-CA	5.78	127.95	120.44
1	L	56	ALA	N-CA-C	5.78	119.04	110.48
1	K	941	ALA	N-CA-C	-5.78	97.04	109.81
3	b	317	ARG	N-CA-C	-5.78	99.10	108.52
1	K	528	ALA	CA-C-N	5.78	128.49	120.29
1	K	528	ALA	C-N-CA	5.78	128.49	120.29
1	F	445	LYS	N-CA-C	-5.77	101.86	110.23
1	O	438	ARG	NE-CZ-NH2	5.77	124.40	119.20
1	A	110	HIS	CA-C-N	-5.77	113.81	119.76
1	A	110	HIS	C-N-CA	-5.77	113.81	119.76
1	G	916	ALA	N-CA-C	-5.76	101.87	110.23
1	J	298	THR	N-CA-C	5.76	123.08	110.80
1	K	534	PRO	N-CA-C	5.76	119.94	110.55
4	m	29	THR	N-CA-C	-5.76	105.08	111.36
1	J	433	ARG	CA-C-N	-5.76	111.34	122.06
1	J	433	ARG	C-N-CA	-5.76	111.34	122.06
1	K	1072	ALA	N-CA-C	-5.76	99.85	109.24
1	H	435	PHE	CA-C-N	-5.76	114.45	120.38
1	H	435	PHE	C-N-CA	-5.76	114.45	120.38
4	t	6	PHE	N-CA-C	-5.76	100.19	108.60
1	B	267	ALA	N-CA-C	5.76	117.82	109.07
1	D	460	THR	N-CA-C	5.76	117.36	111.14
1	D	1135	ALA	CA-C-N	-5.75	114.45	120.38
1	D	1135	ALA	C-N-CA	-5.75	114.45	120.38
4	h	6	PHE	N-CA-C	-5.75	100.20	108.60
1	J	479	ASP	CA-C-N	-5.75	113.62	119.83
1	J	479	ASP	C-N-CA	-5.75	113.62	119.83

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	L	1230	GLY	N-CA-C	-5.75	105.41	112.77
4	l	6	PHE	N-CA-C	-5.75	100.20	108.60
4	k	6	PHE	N-CA-C	-5.75	100.20	108.60
1	C	1275	LYS	CA-C-N	5.75	129.05	120.31
1	C	1275	LYS	C-N-CA	5.75	129.05	120.31
4	n	6	PHE	N-CA-C	-5.75	100.21	108.60
1	E	465	SER	N-CA-C	-5.75	106.11	113.23
1	O	1121	ASP	N-CA-C	-5.75	106.11	113.01
1	G	1078	LEU	N-CA-C	-5.74	101.34	109.96
1	B	1283	THR	N-CA-C	5.74	117.62	111.36
4	i	29	THR	N-CA-C	-5.74	105.10	111.36
1	B	1206	ARG	N-CA-C	5.74	119.54	112.54
1	F	435	PHE	CA-C-N	-5.74	114.47	120.38
1	F	435	PHE	C-N-CA	-5.74	114.47	120.38
1	N	1201	ARG	CA-C-N	-5.74	113.63	119.83
1	N	1201	ARG	C-N-CA	-5.74	113.63	119.83
3	e	142	HIS	N-CA-C	-5.74	105.03	111.28
4	i	6	PHE	N-CA-C	-5.74	100.22	108.60
4	p	6	PHE	N-CA-C	-5.74	100.22	108.60
1	B	446	ASP	N-CA-CB	5.74	120.18	110.49
1	C	110	HIS	N-CA-C	-5.74	100.22	109.40
1	M	90	MET	N-CA-C	5.74	118.75	109.40
1	O	1358	PHE	CB-CA-C	-5.74	109.98	116.63
1	P	757	ASP	N-CA-C	5.74	117.61	111.36
4	h	29	THR	N-CA-C	-5.74	105.11	111.36
4	l	29	THR	N-CA-C	-5.74	105.11	111.36
1	K	280	THR	N-CA-C	-5.73	100.70	109.65
4	j	6	PHE	N-CA-C	-5.73	100.23	108.60
1	G	241	ARG	CA-C-N	5.73	132.49	121.54
1	G	241	ARG	C-N-CA	5.73	132.49	121.54
1	A	29	VAL	N-CA-C	-5.73	103.73	110.21
1	L	486	PRO	CA-C-N	-5.73	113.75	121.71
1	L	486	PRO	C-N-CA	-5.73	113.75	121.71
4	m	6	PHE	N-CA-C	-5.73	100.24	108.60
1	B	97	PHE	CB-CA-C	-5.73	100.65	110.16
1	M	524	CYS	N-CA-C	-5.73	106.14	113.01
4	k	31	ASN	N-CA-C	5.73	118.30	111.71
4	s	6	PHE	N-CA-C	-5.73	100.24	108.60
4	k	29	THR	N-CA-C	-5.73	105.12	111.36
1	A	1276	PHE	N-CA-C	-5.72	102.45	110.35
1	P	956	TYR	N-CA-C	-5.72	100.46	109.50
4	o	31	ASN	N-CA-C	5.72	118.29	111.71

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	O	948	THR	N-CA-C	-5.72	104.45	112.12
4	j	29	THR	N-CA-C	-5.72	105.12	111.36
4	t	29	THR	N-CA-C	-5.72	105.12	111.36
4	g	6	PHE	N-CA-C	-5.72	100.25	108.60
1	I	1080	VAL	N-CA-C	5.72	116.36	108.12
4	r	6	PHE	N-CA-C	-5.71	100.26	108.60
1	G	801	ARG	CA-C-N	5.71	125.64	119.76
1	G	801	ARG	C-N-CA	5.71	125.64	119.76
4	f	29	THR	N-CA-C	-5.71	105.13	111.36
4	s	29	THR	N-CA-C	-5.71	105.13	111.36
1	M	73	LEU	N-CA-C	5.71	118.91	110.46
4	g	29	THR	N-CA-C	-5.71	105.13	111.36
4	s	31	ASN	N-CA-C	5.71	118.28	111.71
1	M	1124	ASN	N-CA-CB	-5.71	101.17	110.42
1	J	394	LEU	N-CA-C	5.71	119.86	113.01
1	N	299	GLU	N-CA-C	-5.71	103.57	110.88
1	B	154	SER	N-CA-C	5.71	117.30	111.14
4	f	6	PHE	N-CA-C	-5.71	100.27	108.60
1	A	752	ARG	CA-C-N	5.71	132.44	121.54
1	A	752	ARG	C-N-CA	5.71	132.44	121.54
3	e	337	ARG	N-CA-C	-5.71	106.28	113.18
1	J	428	GLY	N-CA-C	-5.70	99.66	113.18
1	K	1107	THR	N-CA-C	5.70	117.58	111.36
4	i	31	ASN	N-CA-C	5.70	118.27	111.71
1	I	91	ASN	N-CA-C	5.70	117.57	111.36
4	g	31	ASN	N-CA-C	5.70	118.27	111.71
4	r	29	THR	N-CA-C	-5.70	105.15	111.36
1	A	1122	MET	N-CA-C	5.70	122.94	110.80
1	A	1347	ARG	N-CA-C	-5.70	99.01	108.75
1	J	1121	ASP	N-CA-C	5.70	119.33	112.38
3	Y	337	ARG	N-CA-C	-5.70	106.28	113.18
4	q	6	PHE	N-CA-C	-5.70	100.28	108.60
1	G	107	ASP	N-CA-C	5.70	117.89	108.49
1	H	941	ALA	CA-C-N	-5.70	114.06	119.76
1	H	941	ALA	C-N-CA	-5.70	114.06	119.76
4	r	31	ASN	N-CA-C	5.70	118.26	111.71
1	J	50	TYR	N-CA-C	5.69	122.93	110.80
1	G	953	GLU	CB-CA-C	-5.69	100.39	111.03
1	K	426	ALA	N-CA-C	-5.69	101.76	110.01
3	S	337	ARG	N-CA-C	-5.69	106.30	113.18
4	p	31	ASN	N-CA-C	5.69	118.25	111.71
4	q	29	THR	N-CA-C	-5.69	105.16	111.36

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	C	382	LYS	N-CA-C	5.69	117.28	111.14
1	D	93	GLY	N-CA-C	-5.69	99.70	113.18
3	S	418	THR	N-CA-C	5.69	122.92	110.80
1	I	1223	ILE	N-CA-CB	5.68	120.61	111.23
1	K	804	ASP	N-CA-C	-5.68	106.39	113.38
1	N	292	PHE	N-CA-C	5.68	117.56	111.36
3	V	337	ARG	N-CA-C	-5.68	106.30	113.18
4	p	29	THR	N-CA-C	-5.68	105.17	111.36
1	D	36	PHE	N-CA-C	5.68	118.47	109.50
1	G	270	ARG	N-CA-C	-5.68	105.09	111.28
1	H	1106	TYR	N-CA-C	5.68	122.89	110.80
3	V	200	ALA	CA-C-N	-5.67	114.43	122.94
3	V	200	ALA	C-N-CA	-5.67	114.43	122.94
4	o	29	THR	N-CA-C	-5.67	105.18	111.36
4	q	31	ASN	N-CA-C	5.67	118.23	111.71
4	n	31	ASN	N-CA-C	5.67	118.23	111.71
1	G	1302	THR	N-CA-C	5.67	117.84	108.49
1	M	623	TYR	N-CA-C	-5.67	101.40	109.62
1	K	786	ASN	N-CA-C	5.66	118.39	109.39
4	t	31	ASN	N-CA-C	5.66	118.22	111.71
1	G	387	ALA	N-CA-CB	5.66	120.06	110.49
1	L	1198	TYR	CA-C-O	-5.66	114.96	121.47
3	V	418	THR	N-CA-C	5.66	122.86	110.80
4	h	31	ASN	N-CA-C	5.66	118.22	111.71
1	N	534	PRO	N-CA-C	5.66	124.12	112.47
4	k	20	LEU	N-CA-C	-5.66	102.11	110.48
1	J	1277	PHE	CB-CA-C	-5.65	99.17	110.42
1	L	755	ARG	N-CA-C	5.65	118.27	107.75
1	L	1124	ASN	CB-CA-C	-5.65	99.83	110.01
1	N	191	LYS	CB-CA-C	-5.65	99.88	109.38
1	G	1161	GLN	CA-C-N	-5.65	114.44	120.03
1	G	1161	GLN	C-N-CA	-5.65	114.44	120.03
1	P	1222	VAL	CB-CA-C	5.65	119.77	112.14
1	N	429	HIS	N-CA-C	5.65	117.92	110.36
1	B	1256	LEU	N-CA-C	5.64	117.51	111.36
4	j	31	ASN	N-CA-C	5.64	118.20	111.71
1	P	290	GLN	CA-C-N	5.64	128.30	120.29
1	P	290	GLN	C-N-CA	5.64	128.30	120.29
1	E	1118	PRO	N-CA-C	5.64	120.96	113.57
1	O	15	ALA	N-CA-C	-5.64	106.75	113.97
1	P	27	ILE	CB-CA-C	-5.64	102.78	110.90
1	J	1314	PRO	CA-C-N	5.64	125.31	119.05

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	J	1314	PRO	C-N-CA	5.64	125.31	119.05
1	K	280	THR	CB-CA-C	-5.64	100.77	112.44
4	f	31	ASN	N-CA-C	5.64	118.19	111.71
4	l	31	ASN	N-CA-C	5.64	118.19	111.71
4	m	31	ASN	N-CA-C	5.64	118.20	111.71
1	D	1331	ALA	N-CA-C	-5.64	100.59	109.50
3	S	459	PRO	CA-C-N	-5.64	113.27	121.44
3	S	459	PRO	C-N-CA	-5.64	113.27	121.44
1	N	302	VAL	N-CA-CB	-5.64	103.32	111.21
4	n	29	THR	N-CA-C	-5.64	105.22	111.36
1	H	451	ARG	N-CA-C	5.63	117.41	107.61
4	s	109	PRO	N-CA-C	5.63	120.33	111.38
1	F	1117	ASN	N-CA-C	5.63	113.08	108.07
3	Y	304	GLY	CA-C-N	-5.63	113.75	119.83
3	Y	304	GLY	C-N-CA	-5.63	113.75	119.83
1	J	534	PRO	N-CA-C	-5.63	105.86	113.40
1	N	264	LEU	N-CA-C	5.62	117.89	107.99
3	S	161	TRP	N-CA-C	-5.62	105.23	111.36
1	M	1198	TYR	CA-C-O	-5.62	115.43	121.56
3	S	276	THR	N-CA-C	5.62	117.58	108.08
1	L	1276	PHE	N-CA-C	5.62	119.98	113.18
1	P	1317	CYS	N-CA-C	5.62	116.85	108.31
1	A	33	ARG	N-CA-C	5.62	117.39	107.61
1	E	1219	GLU	N-CA-C	5.62	116.85	108.31
1	D	1241	THR	CB-CA-C	-5.62	97.64	109.38
1	M	944	HIS	CA-C-O	-5.62	115.44	121.56
1	B	95	VAL	N-CA-C	-5.61	100.25	108.11
1	C	784	LEU	N-CA-C	5.61	118.59	110.28
1	N	357	ALA	CA-C-N	-5.61	114.00	119.78
1	N	357	ALA	C-N-CA	-5.61	114.00	119.78
1	G	328	SER	N-CA-C	-5.61	98.94	108.26
1	K	1332	TYR	CA-C-N	-5.61	114.48	120.03
1	K	1332	TYR	C-N-CA	-5.61	114.48	120.03
1	M	582	LEU	CA-C-N	-5.61	114.00	119.78
1	M	582	LEU	C-N-CA	-5.61	114.00	119.78
1	H	427	PRO	N-CA-C	5.61	122.11	113.75
1	B	36	PHE	CA-C-N	5.61	128.07	120.44
1	B	36	PHE	C-N-CA	5.61	128.07	120.44
1	P	452	LEU	N-CA-C	-5.61	99.88	109.24
3	S	304	GLY	CA-C-N	-5.61	113.77	119.83
3	S	304	GLY	C-N-CA	-5.61	113.77	119.83
3	e	276	THR	N-CA-C	5.61	117.56	108.08

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	K	420	ALA	CA-C-N	-5.61	115.94	120.98
1	K	420	ALA	C-N-CA	-5.61	115.94	120.98
1	L	45	ASP	N-CA-C	5.60	118.86	109.95
1	G	151	THR	N-CA-C	5.60	118.02	108.90
1	B	946	ASP	CA-C-N	-5.60	115.56	122.84
1	B	946	ASP	C-N-CA	-5.60	115.56	122.84
3	Y	276	THR	N-CA-C	5.60	117.54	108.08
1	E	84	PHE	N-CA-C	-5.59	97.20	109.11
1	P	916	ALA	N-CA-C	-5.59	102.75	110.35
1	P	583	PRO	N-CA-C	5.59	119.86	111.14
3	b	276	THR	N-CA-C	5.59	117.53	108.08
1	O	445	LYS	N-CA-C	-5.59	102.13	110.23
2	Q	179	LEU	N-CA-C	5.59	119.10	111.39
3	V	459	PRO	CA-C-N	-5.59	113.34	121.44
3	V	459	PRO	C-N-CA	-5.59	113.34	121.44
1	O	1118	PRO	N-CA-C	5.58	121.29	113.53
3	S	109	HIS	CB-CA-C	5.58	119.91	109.86
1	B	536	ASN	N-CA-C	-5.58	96.01	107.67
1	C	520	TRP	N-CA-C	5.58	118.44	110.68
1	A	1204	ASN	CA-C-N	5.58	125.19	119.56
1	A	1204	ASN	C-N-CA	5.58	125.19	119.56
1	K	1222	VAL	N-CA-C	-5.58	102.38	109.80
3	V	276	THR	N-CA-C	5.58	117.51	108.08
2	a	91	GLY	N-CA-C	-5.58	99.96	113.18
3	S	263	VAL	N-CA-C	5.58	115.62	107.37
1	P	1039	GLN	CA-CB-CG	-5.58	102.95	114.10
1	E	8	PRO	CA-C-N	-5.57	114.02	119.76
1	E	8	PRO	C-N-CA	-5.57	114.02	119.76
1	O	99	VAL	N-CA-CB	5.57	118.69	111.67
1	H	1316	GLY	N-CA-C	5.57	117.88	111.36
1	L	1332	TYR	CA-C-N	-5.57	114.19	119.76
1	L	1332	TYR	C-N-CA	-5.57	114.19	119.76
3	e	459	PRO	CA-C-N	-5.57	113.36	121.44
3	e	459	PRO	C-N-CA	-5.57	113.36	121.44
1	M	207	ASN	N-CA-C	5.57	122.66	110.80
1	O	485	ASN	CB-CA-C	5.57	117.45	109.26
3	b	263	VAL	N-CA-C	5.57	115.61	107.37
1	I	114	GLN	CA-C-N	-5.57	114.03	119.76
1	I	114	GLN	C-N-CA	-5.57	114.03	119.76
1	J	1135	ALA	N-CA-C	5.57	117.23	108.55
1	L	1278	THR	N-CA-C	-5.57	98.94	110.80
1	J	51	ASP	N-CA-CB	5.56	120.42	110.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	e	421	ALA	CA-C-N	-5.56	113.20	122.21
3	e	421	ALA	C-N-CA	-5.56	113.20	122.21
1	K	110	HIS	CB-CA-C	-5.56	100.73	109.52
1	K	1111	ALA	N-CA-C	5.56	117.49	108.26
1	C	1279	ALA	CA-C-N	5.56	132.16	121.54
1	C	1279	ALA	C-N-CA	5.56	132.16	121.54
1	F	957	VAL	N-CA-C	5.56	116.58	109.30
1	J	304	VAL	N-CA-C	5.56	116.71	108.65
1	G	754	CYS	N-CA-C	-5.56	99.35	108.41
1	L	352	ASP	CB-CA-C	-5.56	110.15	116.54
3	Y	109	HIS	CB-CA-C	5.56	119.86	109.86
3	Y	263	VAL	N-CA-C	5.56	115.59	107.37
2	Z	126	THR	N-CA-CB	5.56	119.88	110.49
1	P	149	ASP	N-CA-C	-5.56	102.41	110.24
1	P	352	ASP	CB-CA-C	-5.55	110.15	116.54
1	C	357	ALA	CA-C-N	5.55	126.78	119.84
1	C	357	ALA	C-N-CA	5.55	126.78	119.84
4	f	16	ASN	N-CA-C	5.55	122.62	110.80
4	p	16	ASN	N-CA-C	5.55	122.62	110.80
3	Y	90	ILE	CA-C-N	-5.55	113.08	120.63
3	Y	90	ILE	C-N-CA	-5.55	113.08	120.63
3	e	263	VAL	N-CA-C	5.55	115.58	107.37
1	H	519	ARG	N-CA-C	5.55	117.33	111.28
3	V	263	VAL	N-CA-C	5.55	115.58	107.37
3	e	109	HIS	CB-CA-C	5.55	119.84	109.86
4	n	16	ASN	N-CA-C	5.55	122.61	110.80
1	J	1319	GLU	N-CA-C	5.54	120.16	112.45
1	L	373	ARG	N-CA-C	5.54	118.85	109.76
1	G	305	THR	CA-C-N	5.54	127.71	120.28
1	G	305	THR	C-N-CA	5.54	127.71	120.28
1	P	1223	ILE	N-CA-C	5.54	116.32	110.72
1	G	1201	ARG	N-CA-C	-5.54	101.98	110.07
4	j	16	ASN	N-CA-C	5.54	122.60	110.80
1	A	1310	GLN	N-CA-C	5.54	117.75	108.23
3	b	199	ASP	N-CA-C	5.54	122.60	110.80
3	V	109	HIS	CB-CA-C	5.54	119.83	109.86
1	A	383	ARG	CA-C-N	-5.54	115.94	122.36
1	A	383	ARG	C-N-CA	-5.54	115.94	122.36
1	P	1037	TYR	CA-C-N	5.53	128.15	120.29
1	P	1037	TYR	C-N-CA	5.53	128.15	120.29
2	T	126	THR	N-CA-CB	5.53	119.84	110.49
1	E	535	ASP	N-CA-C	5.53	119.61	112.86

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	E	1202	PRO	CA-C-N	5.53	131.25	122.62
1	E	1202	PRO	C-N-CA	5.53	131.25	122.62
1	D	484	ALA	N-CA-C	-5.53	101.29	109.86
1	P	536	ASN	N-CA-C	-5.53	102.13	110.70
1	P	1241	THR	CB-CA-C	-5.53	98.57	110.45
4	r	16	ASN	N-CA-C	5.53	122.58	110.80
4	t	16	ASN	N-CA-C	5.53	122.57	110.80
4	k	16	ASN	N-CA-C	5.53	122.57	110.80
4	m	16	ASN	N-CA-C	5.52	122.56	110.80
1	K	1112	THR	CB-CA-C	-5.52	101.23	110.29
4	i	16	ASN	N-CA-C	5.52	122.56	110.80
4	o	16	ASN	N-CA-C	5.52	122.56	110.80
4	s	13	THR	CB-CA-C	-5.52	101.70	110.04
1	D	1224	ALA	N-CA-C	-5.52	106.44	114.12
1	F	193	PRO	CA-C-N	-5.52	112.94	119.84
1	F	193	PRO	C-N-CA	-5.52	112.94	119.84
1	K	348	ARG	N-CA-C	-5.52	104.03	111.54
4	q	16	ASN	N-CA-C	5.52	122.55	110.80
4	g	16	ASN	N-CA-C	5.52	122.55	110.80
2	W	71	PHE	CA-C-N	-5.51	114.25	119.76
2	W	71	PHE	C-N-CA	-5.51	114.25	119.76
2	a	138	ARG	N-CA-C	-5.51	100.19	109.07
4	s	22	MET	N-CA-C	-5.51	105.27	111.28
1	I	582	LEU	CA-C-N	-5.51	114.08	119.76
1	I	582	LEU	C-N-CA	-5.51	114.08	119.76
1	P	193	PRO	CA-C-N	-5.51	114.28	119.85
1	P	193	PRO	C-N-CA	-5.51	114.28	119.85
2	W	126	THR	N-CA-CB	5.51	119.80	110.49
1	K	1120	THR	N-CA-C	-5.51	100.69	109.23
1	K	1220	GLY	N-CA-C	-5.51	107.76	114.92
1	B	137	THR	CB-CA-C	-5.51	110.21	116.54
1	D	1346	ALA	N-CA-C	5.50	117.28	111.28
3	e	35	ARG	O-C-N	5.50	128.66	122.22
1	J	448	GLN	N-CA-C	-5.50	100.92	109.72
2	a	18	ARG	N-CA-C	-5.50	102.65	109.64
2	c	126	THR	N-CA-CB	5.50	119.79	110.49
4	f	22	MET	N-CA-C	-5.50	105.28	111.28
2	Z	71	PHE	CA-C-N	-5.50	114.26	119.76
2	Z	71	PHE	C-N-CA	-5.50	114.26	119.76
1	G	525	GLN	N-CA-C	5.50	122.51	110.80
1	H	43	ARG	N-CA-C	-5.50	100.22	108.96
1	N	485	ASN	CA-C-N	-5.50	114.67	120.94

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	N	485	ASN	C-N-CA	-5.50	114.67	120.94
2	a	11	ALA	N-CA-C	5.50	117.69	108.73
1	O	432	PRO	CA-N-CD	-5.49	104.31	112.00
2	T	71	PHE	CA-C-N	-5.49	114.27	119.76
2	T	71	PHE	C-N-CA	-5.49	114.27	119.76
1	H	1118	PRO	N-CA-C	5.49	121.16	113.53
1	N	1266	ALA	N-CA-C	-5.49	105.27	112.41
2	Q	126	THR	N-CA-CB	5.49	119.77	110.49
1	A	95	VAL	N-CA-C	-5.49	100.43	108.11
1	H	1227	TYR	N-CA-C	5.49	119.97	113.28
3	V	26	GLU	N-CA-C	-5.49	105.30	111.28
1	G	241	ARG	N-CA-C	-5.48	101.04	109.76
1	D	460	THR	CB-CA-C	-5.48	102.24	110.90
1	H	1291	ARG	N-CA-C	5.48	118.18	111.82
1	K	519	ARG	N-CA-C	5.48	118.02	111.71
1	N	535	ASP	N-CA-C	-5.48	105.31	111.28
1	H	945	LEU	N-CA-C	5.48	122.47	110.80
2	c	71	PHE	CA-C-N	-5.48	114.28	119.76
2	c	71	PHE	C-N-CA	-5.48	114.28	119.76
1	B	1199	PHE	N-CA-CB	5.47	119.74	110.49
1	H	754	CYS	N-CA-C	-5.47	101.75	109.96
4	h	22	MET	N-CA-C	5.47	117.25	111.28
1	E	1219	GLU	CB-CA-C	-5.47	110.25	116.54
1	I	429	HIS	CA-C-N	-5.47	114.95	120.31
1	I	429	HIS	C-N-CA	-5.47	114.95	120.31
1	I	1254	ASP	N-CA-C	-5.46	99.17	110.80
1	J	670	LEU	CB-CA-C	-5.46	99.35	109.29
1	G	1347	ARG	N-CA-C	-5.45	100.01	108.90
1	L	1242	ALA	N-CA-C	-5.45	105.68	112.93
1	A	1346	ALA	CA-C-N	5.45	131.53	121.94
1	A	1346	ALA	C-N-CA	5.45	131.53	121.94
1	L	421	GLY	N-CA-C	-5.45	100.26	113.18
1	N	786	ASN	N-CA-C	5.45	118.06	109.39
1	G	148	LEU	O-C-N	5.45	127.90	122.12
2	Q	71	PHE	CA-C-N	-5.45	114.31	119.76
2	Q	71	PHE	C-N-CA	-5.45	114.31	119.76
1	N	520	TRP	CA-C-N	5.45	131.77	121.97
1	N	520	TRP	C-N-CA	5.45	131.77	121.97
1	P	445	LYS	N-CA-C	-5.44	103.30	110.43
1	A	1123	GLY	N-CA-C	5.44	126.08	113.18
1	J	485	ASN	CB-CA-C	5.44	115.73	111.00
1	E	306	TYR	CB-CA-C	-5.44	100.34	109.65

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	M	93	GLY	N-CA-C	-5.44	101.67	111.19
1	N	259	VAL	N-CA-C	-5.44	98.02	109.34
1	C	1166	PHE	N-CA-C	-5.44	100.03	108.90
4	i	105	ASP	CA-C-N	-5.44	113.31	118.97
4	i	105	ASP	C-N-CA	-5.44	113.31	118.97
1	E	1241	THR	CB-CA-C	-5.44	98.11	110.07
1	G	148	LEU	CA-C-N	5.43	129.29	120.60
1	G	148	LEU	C-N-CA	5.43	129.29	120.60
1	I	1117	ASN	CA-C-N	5.43	124.77	118.85
1	I	1117	ASN	C-N-CA	5.43	124.77	118.85
1	O	417	ALA	N-CA-C	5.43	117.28	111.36
1	O	957	VAL	CB-CA-C	-5.43	105.02	111.97
2	a	141	VAL	CA-C-N	5.43	125.38	119.78
2	a	141	VAL	C-N-CA	5.43	125.38	119.78
1	A	43	ARG	N-CA-C	-5.43	99.23	110.80
1	D	1323	ASP	CA-C-N	-5.43	114.32	120.89
1	D	1323	ASP	C-N-CA	-5.43	114.32	120.89
1	N	1162	PRO	CA-N-CD	-5.43	104.40	112.00
1	O	1330	GLU	N-CA-C	5.43	117.09	108.79
1	C	1330	GLU	N-CA-C	5.42	117.22	109.14
1	L	359	GLN	N-CA-C	-5.42	102.97	110.35
2	X	160	ILE	N-CA-C	5.42	116.08	110.82
1	A	1157	LEU	N-CA-C	-5.42	98.53	108.02
1	K	97	PHE	N-CA-C	5.42	118.42	109.85
1	K	355	GLU	N-CA-C	5.42	116.52	108.60
1	M	114	GLN	CA-C-N	-5.42	114.19	119.78
1	M	114	GLN	C-N-CA	-5.42	114.19	119.78
3	S	167	ALA	N-CA-C	-5.42	105.37	111.28
1	G	1114	THR	N-CA-C	5.42	118.76	110.36
1	I	352	ASP	CB-CA-C	-5.42	110.31	116.54
1	K	435	PHE	CA-C-N	-5.42	114.80	120.38
1	K	435	PHE	C-N-CA	-5.42	114.80	120.38
1	K	591	PHE	CA-C-N	5.42	127.54	120.28
1	K	591	PHE	C-N-CA	5.42	127.54	120.28
1	N	193	PRO	CA-C-N	-5.42	114.18	119.76
1	N	193	PRO	C-N-CA	-5.42	114.18	119.76
1	N	432	PRO	CB-CA-C	-5.42	103.77	111.68
1	K	920	THR	N-CA-CB	5.42	119.64	110.49
1	F	376	PHE	CB-CA-C	-5.41	100.82	109.75
4	k	11	THR	CB-CA-C	-5.41	99.65	110.42
1	L	473	VAL	CB-CA-C	5.41	119.49	112.24
3	b	428	MET	CA-C-N	-5.41	114.73	121.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	b	428	MET	C-N-CA	-5.41	114.73	121.00
1	G	20	THR	CB-CA-C	-5.41	110.33	116.54
1	K	1119	VAL	CB-CA-C	-5.41	102.42	111.29
1	N	1265	GLY	N-CA-C	-5.40	108.17	115.36
1	A	91	ASN	N-CA-C	5.40	116.97	111.14
1	C	296	GLU	N-CA-CB	-5.40	104.09	111.65
4	i	11	THR	CB-CA-C	-5.40	99.67	110.42
1	D	1227	TYR	N-CA-C	5.40	119.97	113.17
1	P	518	VAL	O-C-N	-5.40	116.73	122.61
4	j	11	THR	CB-CA-C	-5.40	99.68	110.42
1	O	1314	PRO	CA-C-N	5.39	125.21	119.28
1	O	1314	PRO	C-N-CA	5.39	125.21	119.28
3	Y	151	GLY	N-CA-C	-5.39	107.76	115.64
4	r	11	THR	CB-CA-C	-5.39	99.69	110.42
3	S	458	ARG	N-CA-C	-5.39	99.92	108.82
4	q	11	THR	CB-CA-C	-5.39	99.69	110.42
1	G	577	VAL	CB-CA-C	-5.39	104.86	111.92
1	L	1301	SER	N-CA-C	-5.39	102.90	110.50
1	M	379	ALA	N-CA-C	-5.39	99.31	108.26
1	P	265	THR	CA-C-N	5.39	131.01	120.99
1	P	265	THR	C-N-CA	5.39	131.01	120.99
3	Y	149	PRO	O-C-N	5.39	123.68	121.15
1	A	519	ARG	N-CA-C	5.39	117.15	111.28
4	h	11	THR	CB-CA-C	-5.39	99.70	110.42
1	N	582	LEU	CA-C-N	-5.38	114.23	119.78
1	N	582	LEU	C-N-CA	-5.38	114.23	119.78
3	e	285	ALA	CB-CA-C	-5.38	110.39	116.63
1	A	77	VAL	CB-CA-C	-5.38	104.79	112.22
1	E	1257	TYR	N-CA-C	5.38	120.12	113.50
3	Y	143	LEU	N-CA-C	-5.38	105.49	111.36
1	G	1253	GLY	N-CA-C	-5.38	106.27	112.73
1	A	1069	ALA	N-CA-C	-5.38	97.05	107.44
1	P	29	VAL	CB-CA-C	-5.38	102.47	111.29
4	f	11	THR	CB-CA-C	-5.38	99.71	110.42
4	g	11	THR	CB-CA-C	-5.38	99.71	110.42
1	L	1072	ALA	N-CA-C	-5.38	100.14	108.90
1	O	1230	GLY	N-CA-C	-5.38	100.44	113.18
1	A	1236	ARG	N-CA-C	-5.37	98.75	108.85
4	n	11	THR	CB-CA-C	-5.37	99.73	110.42
4	q	98	TYR	N-CA-C	5.37	124.37	113.20
4	o	11	THR	CB-CA-C	-5.37	99.73	110.42
1	H	1123	GLY	N-CA-C	5.37	125.90	113.18

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	I	124	ILE	CB-CA-C	-5.37	102.57	111.32
4	l	11	THR	CB-CA-C	-5.37	99.74	110.42
1	E	419	HIS	N-CA-CB	5.37	120.76	111.69
3	V	458	ARG	N-CA-C	-5.37	99.96	108.82
4	m	11	THR	CB-CA-C	-5.37	99.74	110.42
1	J	537	ALA	N-CA-C	5.36	122.23	110.80
4	l	98	TYR	N-CA-C	5.36	124.36	113.20
1	G	86	GLU	N-CA-C	-5.36	104.65	113.50
1	P	149	ASP	CB-CA-C	-5.36	101.07	109.70
1	E	945	LEU	N-CA-C	5.36	118.83	112.72
1	I	1236	ARG	N-CA-C	-5.36	97.16	108.73
1	G	1288	CYS	N-CA-C	5.36	117.44	108.23
1	E	7	ASP	CA-C-N	-5.36	114.86	120.38
1	E	7	ASP	C-N-CA	-5.36	114.86	120.38
1	O	526	MET	CA-C-O	-5.36	115.78	121.94
3	S	274	THR	N-CA-C	5.36	122.21	110.80
1	B	1347	ARG	CA-C-N	5.35	131.77	121.54
1	B	1347	ARG	C-N-CA	5.35	131.77	121.54
1	D	418	ALA	CA-C-N	5.35	131.76	121.54
1	D	418	ALA	C-N-CA	5.35	131.76	121.54
1	K	433	ARG	NE-CZ-NH1	-5.35	116.15	121.50
1	N	964	PHE	N-CA-C	5.35	118.88	111.55
1	O	1227	TYR	N-CA-CB	-5.35	108.07	114.17
3	e	458	ARG	N-CA-C	-5.35	99.99	108.82
1	G	90	MET	N-CA-C	5.34	117.11	111.28
1	E	84	PHE	CA-C-N	-5.34	114.42	120.89
1	E	84	PHE	C-N-CA	-5.34	114.42	120.89
1	E	305	THR	N-CA-CB	-5.34	102.22	110.56
1	E	429	HIS	CA-C-N	-5.34	114.27	120.04
1	E	429	HIS	C-N-CA	-5.34	114.27	120.04
1	M	535	ASP	N-CA-C	5.34	119.10	112.58
1	M	1203	CYS	N-CA-C	5.34	122.18	110.80
1	N	565	PRO	N-CA-C	-5.34	101.85	110.55
1	I	302	VAL	CA-C-N	5.34	126.61	120.85
1	I	302	VAL	C-N-CA	5.34	126.61	120.85
3	Y	149	PRO	CA-C-N	-5.34	114.28	119.78
3	Y	149	PRO	C-N-CA	-5.34	114.28	119.78
1	B	1257	TYR	N-CA-C	5.33	120.80	113.97
1	K	493	ALA	CA-C-N	-5.33	114.27	119.76
1	K	493	ALA	C-N-CA	-5.33	114.27	119.76
1	D	1358	PHE	CB-CA-C	-5.33	110.41	116.54
1	M	437	PRO	N-CA-C	5.33	119.24	110.55

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	271	GLY	CA-C-O	5.33	124.59	120.91
1	B	291	SER	N-CA-C	5.33	120.79	113.97
1	C	526	MET	CA-C-N	-5.33	114.68	122.19
1	C	526	MET	C-N-CA	-5.33	114.68	122.19
1	J	60	SER	CA-C-N	5.33	130.93	122.62
1	J	60	SER	C-N-CA	5.33	130.93	122.62
1	C	509	TRP	N-CA-C	5.33	119.49	112.25
1	L	113	GLU	N-CA-C	5.33	118.36	110.48
1	N	1068	ARG	CA-C-N	-5.33	114.89	122.77
1	N	1068	ARG	C-N-CA	-5.33	114.89	122.77
2	a	261	LEU	N-CA-C	-5.33	100.21	108.31
1	M	143	LEU	N-CA-C	5.32	117.16	111.36
4	o	98	TYR	CA-C-N	-5.32	114.34	122.06
4	o	98	TYR	C-N-CA	-5.32	114.34	122.06
1	C	919	ASN	N-CA-C	-5.32	99.85	108.52
1	N	258	SER	CB-CA-C	-5.32	101.08	111.03
2	U	261	LEU	N-CA-C	-5.32	100.23	108.31
1	G	392	TYR	CA-C-N	-5.32	114.30	120.04
1	G	392	TYR	C-N-CA	-5.32	114.30	120.04
2	d	261	LEU	N-CA-C	-5.32	100.23	108.31
1	G	326	VAL	N-CA-C	5.31	115.51	107.75
1	H	728	ASP	CA-C-N	-5.31	114.46	120.89
1	H	728	ASP	C-N-CA	-5.31	114.46	120.89
1	J	50	TYR	CA-C-N	-5.31	114.56	122.74
1	J	50	TYR	C-N-CA	-5.31	114.56	122.74
1	K	1161	GLN	CA-C-N	-5.31	114.29	119.76
1	K	1161	GLN	C-N-CA	-5.31	114.29	119.76
3	S	302	LEU	N-CA-C	-5.31	99.86	108.52
1	C	363	VAL	N-CA-C	-5.31	100.83	108.48
1	F	469	ILE	CB-CA-C	-5.31	102.58	111.29
4	k	97	THR	N-CA-C	-5.31	105.92	112.72
1	C	1313	ARG	CA-C-N	5.31	123.53	119.66
1	C	1313	ARG	C-N-CA	5.31	123.53	119.66
1	K	44	SER	N-CA-C	-5.31	99.50	110.80
2	R	261	LEU	N-CA-C	-5.31	100.24	108.31
2	Z	224	ILE	CB-CA-C	-5.31	108.72	114.35
1	D	446	ASP	N-CA-CB	5.31	119.46	110.49
4	l	97	THR	N-CA-C	-5.31	105.93	112.72
1	N	71	LEU	N-CA-CB	5.30	117.64	110.59
4	s	20	LEU	N-CA-C	-5.30	99.50	110.80
1	H	1094	THR	N-CA-C	5.30	119.51	112.72
1	J	451	ARG	N-CA-C	5.30	117.88	109.50

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	T	176	LEU	CA-C-N	5.30	127.38	120.28
2	T	176	LEU	C-N-CA	5.30	127.38	120.28
1	G	1265	GLY	N-CA-C	-5.30	100.62	113.18
1	B	753	ASP	N-CA-CB	-5.30	103.28	111.65
1	C	445	LYS	CA-C-N	-5.30	115.46	124.31
1	C	445	LYS	C-N-CA	-5.30	115.46	124.31
1	P	354	LEU	N-CA-C	-5.30	100.53	108.96
3	b	136	HIS	CA-C-N	-5.30	114.57	120.45
3	b	136	HIS	C-N-CA	-5.30	114.57	120.45
1	N	191	LYS	N-CA-CB	-5.30	103.57	110.88
2	Q	98	VAL	CB-CA-C	-5.30	102.34	110.50
1	F	295	VAL	N-CA-C	-5.30	100.02	107.75
1	I	486	PRO	N-CA-C	-5.30	106.96	113.84
1	L	465	SER	N-CA-C	-5.30	105.68	111.82
2	X	261	LEU	N-CA-C	-5.30	100.26	108.31
3	b	459	PRO	N-CA-C	5.30	121.04	113.47
1	N	110	HIS	N-CA-C	-5.29	89.37	107.32
1	O	122	LYS	N-CA-C	-5.29	101.14	109.50
4	g	46	THR	N-CA-C	-5.29	105.51	111.28
1	M	435	PHE	CA-C-N	-5.29	114.93	120.38
1	M	435	PHE	C-N-CA	-5.29	114.93	120.38
4	f	20	LEU	N-CA-C	-5.29	99.53	110.80
2	W	98	VAL	CB-CA-C	-5.29	102.35	110.50
1	D	98	GLU	N-CA-C	-5.29	99.79	108.41
1	E	1224	ALA	N-CA-C	-5.29	104.89	112.13
1	I	302	VAL	N-CA-C	5.29	113.38	108.15
1	L	1234	PRO	CA-C-N	5.29	127.63	120.44
1	L	1234	PRO	C-N-CA	5.29	127.63	120.44
4	m	46	THR	N-CA-C	-5.29	105.52	111.28
1	D	57	LEU	N-CA-C	-5.28	100.12	108.73
1	O	1126	PRO	CA-N-CD	-5.28	104.60	112.00
3	Y	303	GLY	N-CA-C	5.28	120.65	111.14
1	A	428	GLY	CA-C-N	5.28	131.04	122.48
1	A	428	GLY	C-N-CA	5.28	131.04	122.48
2	R	18	ARG	N-CA-C	-5.28	105.66	113.16
2	T	179	LEU	N-CA-C	-5.28	100.79	109.40
1	I	431	GLU	CA-C-N	-5.28	114.50	120.89
1	I	431	GLU	C-N-CA	-5.28	114.50	120.89
1	K	111	PRO	CA-C-O	-5.28	115.23	121.67
1	M	1252	TYR	CA-C-N	5.28	125.81	120.00
1	M	1252	TYR	C-N-CA	5.28	125.81	120.00
1	K	1102	LEU	N-CA-C	5.28	117.11	111.36

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	I	45	ASP	N-CA-CB	-5.28	102.41	110.85
1	M	467	MET	N-CA-C	5.28	119.35	113.02
2	T	98	VAL	CB-CA-C	-5.28	102.37	110.50
1	C	1266	ALA	N-CA-C	-5.28	106.52	113.17
1	L	1067	GLU	CA-CB-CG	-5.28	103.55	114.10
4	t	46	THR	N-CA-C	-5.28	105.53	111.28
1	N	1199	PHE	CB-CA-C	-5.27	99.92	110.42
1	L	429	HIS	CA-C-N	-5.27	115.30	120.52
1	L	429	HIS	C-N-CA	-5.27	115.30	120.52
1	N	207	ASN	N-CA-C	-5.27	99.57	110.80
2	c	98	VAL	CB-CA-C	-5.27	102.38	110.50
4	i	46	THR	N-CA-C	-5.27	105.53	111.28
1	A	1226	MET	N-CA-C	5.27	117.11	111.36
1	M	1327	LEU	N-CA-C	-5.27	99.57	110.80
3	e	109	HIS	N-CA-C	-5.27	100.01	108.55
4	t	73	PHE	N-CA-C	-5.27	101.01	109.39
1	B	173	LEU	N-CA-C	-5.27	104.97	111.40
1	M	1243	ASN	N-CA-C	-5.27	97.11	107.91
1	P	1278	THR	N-CA-CB	5.27	119.39	110.49
4	j	46	THR	N-CA-C	-5.27	105.54	111.28
1	O	534	PRO	CA-N-CD	-5.27	104.63	112.00
1	O	1277	PHE	N-CA-C	-5.27	98.67	107.99
4	i	98	TYR	N-CA-C	5.27	124.16	113.20
1	G	1119	VAL	CB-CA-C	-5.26	104.95	112.22
1	A	1285	LYS	CB-CA-C	-5.26	110.07	117.23
1	M	482	GLU	CA-C-N	-5.26	115.74	123.00
1	M	482	GLU	C-N-CA	-5.26	115.74	123.00
3	S	149	PRO	O-C-N	5.26	123.73	121.31
4	s	14	ALA	N-CA-C	-5.26	104.87	113.19
1	G	535	ASP	CB-CA-C	-5.26	99.95	110.42
1	C	294	LYS	N-CA-C	-5.26	106.54	113.17
1	D	1216	GLY	CA-C-N	-5.26	115.82	123.93
1	D	1216	GLY	C-N-CA	-5.26	115.82	123.93
1	M	91	ASN	CB-CA-C	-5.26	102.58	112.00
1	P	269	THR	N-CA-C	-5.26	98.33	107.49
1	P	272	ARG	CA-C-N	-5.26	113.88	120.51
1	P	272	ARG	C-N-CA	-5.26	113.88	120.51
1	P	1161	GLN	CA-C-N	-5.26	114.34	119.76
1	P	1161	GLN	C-N-CA	-5.26	114.34	119.76
4	s	46	THR	N-CA-C	-5.26	105.55	111.28
1	P	29	VAL	N-CA-C	5.26	120.28	109.34
2	Z	98	VAL	CB-CA-C	-5.26	102.40	110.50

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	G	509	TRP	N-CA-C	5.26	117.51	109.62
1	P	114	GLN	CA-C-N	-5.26	114.34	119.76
1	P	114	GLN	C-N-CA	-5.26	114.34	119.76
1	A	485	ASN	CB-CA-C	5.26	115.57	111.00
1	K	192	ALA	CA-C-N	-5.26	114.97	120.38
1	K	192	ALA	C-N-CA	-5.26	114.97	120.38
1	P	1317	CYS	CB-CA-C	-5.26	110.49	116.54
4	p	22	MET	N-CA-C	-5.26	105.22	111.69
1	I	1225	LEU	CA-C-N	-5.25	112.37	120.88
1	I	1225	LEU	C-N-CA	-5.25	112.37	120.88
1	J	66	SER	N-CA-C	-5.25	101.13	109.96
1	H	265	THR	N-CA-C	-5.25	99.61	110.80
2	W	160	ILE	CB-CA-C	-5.25	105.05	112.14
1	O	446	ASP	N-CA-C	5.25	121.98	110.80
1	F	469	ILE	N-CA-C	5.25	120.26	109.34
1	F	537	ALA	N-CA-C	-5.25	106.71	113.01
1	I	1332	TYR	CA-C-N	-5.25	114.51	119.76
1	I	1332	TYR	C-N-CA	-5.25	114.51	119.76
1	K	465	SER	O-C-N	5.25	128.90	122.34
1	P	966	GLY	CA-C-O	-5.25	116.85	120.94
3	Y	109	HIS	N-CA-C	-5.25	100.05	108.55
1	K	1251	SER	CA-C-O	-5.25	115.91	121.94
4	o	46	THR	N-CA-C	-5.25	105.56	111.28
1	P	534	PRO	CB-CA-C	-5.24	103.13	110.63
2	X	109	CYS	N-CA-CB	5.24	119.35	110.49
1	F	1072	ALA	N-CA-C	-5.24	100.70	109.24
1	I	1348	ASP	N-CA-CB	5.24	119.35	110.49
1	A	1135	ALA	CA-C-N	-5.24	114.98	120.38
1	A	1135	ALA	C-N-CA	-5.24	114.98	120.38
1	C	1161	GLN	N-CA-C	-5.24	100.38	108.55
1	F	376	PHE	N-CA-C	5.24	117.78	109.24
1	J	521	VAL	CB-CA-C	-5.24	105.17	110.93
4	m	105	ASP	CA-C-N	-5.24	113.52	118.97
4	m	105	ASP	C-N-CA	-5.24	113.52	118.97
1	M	1202	PRO	N-CA-C	5.24	123.26	112.47
4	r	46	THR	N-CA-C	-5.24	105.57	111.28
1	H	840	GLN	N-CA-C	5.24	119.30	113.02
1	K	806	THR	N-CA-C	5.24	117.89	111.82
3	S	109	HIS	N-CA-C	-5.24	100.07	108.55
3	V	109	HIS	N-CA-C	-5.23	100.07	108.55
1	E	1267	SER	N-CA-C	-5.23	100.42	109.15
1	I	404	LEU	CA-CB-CG	5.23	134.60	116.30

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	J	921	ALA	N-CA-C	5.23	116.98	111.28
1	H	108	GLY	CA-C-N	-5.23	114.56	120.89
1	H	108	GLY	C-N-CA	-5.23	114.56	120.89
1	M	30	ALA	CB-CA-C	-5.23	100.01	110.42
1	P	1333	PRO	CA-N-CD	-5.23	104.68	112.00
1	M	1266	ALA	N-CA-C	-5.23	105.36	112.26
1	O	1227	TYR	CB-CA-C	-5.23	102.53	110.06
1	M	297	ASP	N-CA-C	5.22	116.97	111.28
2	a	109	CYS	N-CA-CB	5.22	119.32	110.49
3	b	320	ARG	N-CA-C	-5.22	105.58	111.28
4	k	46	THR	N-CA-C	-5.22	105.58	111.28
4	p	46	THR	N-CA-C	-5.22	105.58	111.28
4	p	67	THR	N-CA-C	5.22	119.20	112.41
2	a	71	PHE	N-CA-C	5.22	120.23	109.11
1	B	1125	LEU	CA-C-N	5.22	126.37	119.84
1	B	1125	LEU	C-N-CA	5.22	126.37	119.84
1	D	253	THR	N-CA-C	5.22	118.78	112.93
3	Y	37	LEU	N-CA-C	5.22	117.41	108.90
1	P	563	VAL	O-C-N	5.22	127.05	121.10
4	q	46	THR	N-CA-C	-5.22	105.59	111.28
1	D	305	THR	N-CA-C	5.22	118.25	109.95
1	N	1169	ALA	N-CA-C	-5.22	99.09	108.58
2	U	109	CYS	N-CA-CB	5.22	119.31	110.49
1	F	324	LYS	CA-C-N	5.21	127.53	120.44
1	F	324	LYS	C-N-CA	5.21	127.53	120.44
1	J	1367	SER	CA-C-N	-5.21	114.45	119.87
1	J	1367	SER	C-N-CA	-5.21	114.45	119.87
4	n	67	THR	N-CA-C	5.21	119.19	112.41
1	P	1230	GLY	N-CA-C	-5.21	100.83	113.18
1	J	948	THR	N-CA-CB	-5.21	102.41	110.07
1	H	192	ALA	CA-C-N	-5.21	115.02	120.38
1	H	192	ALA	C-N-CA	-5.21	115.02	120.38
1	H	520	TRP	N-CA-C	5.21	117.67	109.39
3	e	437	HIS	N-CA-C	5.21	118.08	109.85
1	G	1077	GLN	CA-C-N	5.21	128.24	120.95
1	G	1077	GLN	C-N-CA	5.21	128.24	120.95
1	L	192	ALA	CA-C-N	-5.21	115.02	120.38
1	L	192	ALA	C-N-CA	-5.21	115.02	120.38
1	N	1222	VAL	CA-C-O	-5.21	116.37	121.58
2	R	109	CYS	N-CA-CB	5.21	119.29	110.49
4	k	67	THR	N-CA-C	5.21	119.18	112.41
1	K	465	SER	CA-C-N	5.21	127.68	120.29

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	K	465	SER	C-N-CA	5.21	127.68	120.29
4	f	46	THR	N-CA-C	-5.21	105.61	111.28
4	l	46	THR	N-CA-C	-5.21	105.61	111.28
1	O	522	ALA	CA-C-N	5.20	128.22	120.31
1	O	522	ALA	C-N-CA	5.20	128.22	120.31
4	i	67	THR	N-CA-C	5.20	119.17	112.41
1	G	1264	ASN	N-CA-C	-5.20	101.23	109.96
4	m	67	THR	N-CA-C	5.20	119.16	112.41
4	o	67	THR	N-CA-C	5.20	119.16	112.41
1	C	64	THR	N-CA-C	-5.19	100.05	108.52
1	N	1169	ALA	CA-C-N	5.19	128.14	120.82
1	N	1169	ALA	C-N-CA	5.19	128.14	120.82
1	O	427	PRO	CA-C-O	-5.19	111.06	119.84
3	Y	426	GLY	N-CA-C	5.19	117.20	110.45
1	B	275	ASP	CB-CA-C	-5.19	101.71	110.64
1	N	264	LEU	CA-CB-CG	5.19	134.47	116.30
4	k	105	ASP	CA-C-N	-5.19	113.57	118.97
4	k	105	ASP	C-N-CA	-5.19	113.57	118.97
4	r	95	LYS	N-CA-C	5.19	116.72	108.67
1	A	114	GLN	CA-C-N	-5.19	113.35	119.84
1	A	114	GLN	C-N-CA	-5.19	113.35	119.84
1	A	760	GLY	N-CA-C	5.19	120.27	111.19
1	P	1221	ASP	CA-C-N	-5.19	113.35	120.46
1	P	1221	ASP	C-N-CA	-5.19	113.35	120.46
1	L	1196	ILE	CA-C-N	5.19	128.90	120.60
1	L	1196	ILE	C-N-CA	5.19	128.90	120.60
1	L	564	PRO	CA-C-N	-5.18	113.36	119.84
1	L	564	PRO	C-N-CA	-5.18	113.36	119.84
3	V	438	ARG	N-CA-C	-5.18	105.63	111.28
2	d	109	CYS	N-CA-CB	5.18	119.25	110.49
4	l	105	ASP	CA-C-N	-5.18	113.58	118.97
4	l	105	ASP	C-N-CA	-5.18	113.58	118.97
4	g	67	THR	N-CA-C	5.18	119.15	112.41
4	q	67	THR	N-CA-C	5.18	119.15	112.41
4	r	67	THR	N-CA-C	5.18	119.15	112.41
1	B	435	PHE	CA-C-N	-5.18	115.04	120.38
1	B	435	PHE	C-N-CA	-5.18	115.04	120.38
4	j	67	THR	N-CA-C	5.18	119.15	112.41
1	I	466	LEU	N-CA-C	-5.18	101.53	109.76
1	J	88	ALA	N-CA-C	-5.18	105.64	111.28
1	O	99	VAL	CA-C-N	-5.18	114.89	122.19
1	O	99	VAL	C-N-CA	-5.18	114.89	122.19

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	O	96	GLN	CB-CA-C	-5.18	99.13	109.33
4	h	46	THR	N-CA-C	-5.18	105.64	111.28
1	M	1196	ILE	N-CA-C	-5.17	106.27	113.00
1	N	1315	PRO	N-CA-C	5.17	120.63	113.65
1	H	1236	ARG	N-CA-C	-5.17	97.56	108.73
1	K	1347	ARG	N-CA-C	-5.17	105.64	111.28
1	M	522	ALA	CA-C-N	5.17	130.35	122.29
1	M	522	ALA	C-N-CA	5.17	130.35	122.29
4	n	46	THR	N-CA-C	-5.17	105.64	111.28
1	G	1224	ALA	N-CA-C	-5.17	103.64	111.34
1	D	957	VAL	N-CA-C	5.17	116.09	111.90
2	Z	249	GLU	N-CA-C	5.17	116.91	111.28
1	F	111	PRO	N-CA-C	-5.17	103.08	111.19
1	O	1263	LEU	N-CA-C	-5.16	105.73	111.36
4	f	67	THR	N-CA-C	5.16	119.12	112.41
4	l	67	THR	N-CA-C	5.16	119.12	112.41
1	H	1124	ASN	N-CA-CB	-5.16	104.15	111.84
3	V	278	HIS	C-N-CD	-5.16	103.84	125.00
3	b	289	PRO	CA-N-CD	-5.16	104.78	112.00
1	M	378	GLU	CB-CA-C	-5.16	98.60	109.38
1	N	193	PRO	CA-N-CD	-5.16	104.78	112.00
1	L	525	GLN	CB-CA-C	-5.16	101.64	109.89
1	I	460	THR	N-CA-C	-5.15	106.08	112.93
1	J	404	LEU	N-CA-C	-5.15	99.88	108.23
1	P	486	PRO	CA-C-N	-5.15	114.55	121.71
1	P	486	PRO	C-N-CA	-5.15	114.55	121.71
1	P	1332	TYR	CB-CA-C	-5.15	100.88	108.87
4	q	10	SER	N-CA-C	5.15	121.77	110.80
1	G	375	VAL	N-CA-CB	-5.15	103.79	112.44
3	S	421	ALA	O-C-N	-5.15	117.14	122.96
4	s	67	THR	N-CA-C	5.15	119.11	112.41
4	h	67	THR	N-CA-C	5.15	119.10	112.41
4	t	67	THR	N-CA-C	5.15	119.10	112.41
1	J	955	PHE	N-CA-C	5.15	118.13	109.95
4	h	105	ASP	CA-C-N	-5.15	113.41	119.84
4	h	105	ASP	C-N-CA	-5.15	113.41	119.84
1	J	478	HIS	N-CA-C	5.14	116.89	111.28
2	R	164	ASN	N-CA-C	-5.14	99.18	108.85
1	I	1223	ILE	CB-CA-C	-5.14	102.86	111.29
1	H	235	GLY	N-CA-C	-5.14	101.00	113.18
1	A	28	GLU	O-C-N	5.13	129.69	123.01
1	M	266	HIS	CA-C-N	-5.13	113.10	121.26

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	M	266	HIS	C-N-CA	-5.13	113.10	121.26
1	N	378	GLU	N-CA-CB	-5.13	103.60	111.56
2	a	21	ALA	N-CA-C	-5.13	105.69	111.28
1	B	534	PRO	CA-N-CD	-5.13	104.82	112.00
1	K	71	LEU	N-CA-C	5.13	116.87	111.28
3	V	285	ALA	CB-CA-C	-5.13	110.64	116.54
1	A	262	PRO	O-C-N	5.13	128.38	122.17
1	C	323	GLY	N-CA-C	5.13	125.33	113.18
1	J	274	VAL	CA-C-N	5.13	127.42	120.44
1	J	274	VAL	C-N-CA	5.13	127.42	120.44
1	L	1331	ALA	N-CA-C	-5.13	101.52	109.72
1	O	378	GLU	N-CA-CB	-5.13	103.61	111.56
1	G	40	ALA	N-CA-C	5.13	119.16	113.01
1	B	431	GLU	CA-C-N	-5.13	114.38	119.56
1	B	431	GLU	C-N-CA	-5.13	114.38	119.56
1	O	48	SER	N-CA-C	5.13	119.16	113.01
2	a	43	LEU	N-CA-C	-5.13	107.00	113.20
1	K	1038	HIS	CA-C-N	5.12	129.18	120.88
1	K	1038	HIS	C-N-CA	5.12	129.18	120.88
1	H	1117	ASN	CA-C-N	5.12	124.74	119.05
1	H	1117	ASN	C-N-CA	5.12	124.74	119.05
1	J	958	LEU	N-CA-C	-5.12	98.49	109.81
1	O	580	GLY	N-CA-C	-5.12	106.79	115.34
1	P	207	ASN	CA-C-N	5.12	130.92	121.70
1	P	207	ASN	C-N-CA	5.12	130.92	121.70
3	Y	162	GLY	N-CA-C	-5.12	106.59	112.73
1	O	436	PRO	CA-C-N	-5.12	114.68	119.85
1	O	436	PRO	C-N-CA	-5.12	114.68	119.85
1	O	448	GLN	CB-CA-C	5.12	118.57	109.72
1	H	480	PRO	N-CA-C	5.11	119.59	111.26
1	L	520	TRP	CA-C-N	5.11	131.17	121.97
1	L	520	TRP	C-N-CA	5.11	131.17	121.97
1	P	353	GLU	N-CA-C	5.11	117.30	109.07
3	V	139	ASP	N-CA-C	-5.11	102.29	109.96
1	L	1236	ARG	N-CA-C	-5.11	97.41	108.81
1	G	20	THR	N-CA-C	5.11	116.08	108.31
1	H	110	HIS	CA-C-N	-5.11	114.50	119.76
1	H	110	HIS	C-N-CA	-5.11	114.50	119.76
1	J	595	ARG	CB-CG-CD	-5.11	99.55	111.30
1	L	357	ALA	CA-C-N	-5.11	114.45	119.92
1	L	357	ALA	C-N-CA	-5.11	114.45	119.92
1	M	755	ARG	CA-C-N	-5.11	116.49	122.93

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	M	755	ARG	C-N-CA	-5.11	116.49	122.93
1	P	110	HIS	N-CA-C	-5.11	101.23	109.40
4	k	86	GLU	N-CA-C	5.11	118.37	111.17
1	J	521	VAL	N-CA-C	-5.11	108.15	113.10
1	K	452	LEU	N-CA-C	-5.11	100.09	108.41
1	G	511	GLN	N-CA-C	5.10	116.84	111.28
1	E	957	VAL	N-CA-C	5.10	115.38	110.74
1	F	323	GLY	N-CA-C	5.10	118.85	112.73
1	O	958	LEU	N-CA-C	5.10	121.09	109.81
4	h	86	GLU	N-CA-C	5.10	118.37	111.17
1	B	519	ARG	N-CA-C	5.10	116.84	111.28
1	M	431	GLU	N-CA-C	5.10	121.08	109.81
1	O	558	LEU	C-N-CD	5.10	131.81	120.60
4	p	71	ASN	N-CA-C	-5.10	105.72	111.28
3	b	305	PRO	N-CA-C	-5.10	101.97	112.47
2	a	71	PHE	C-N-CD	-5.09	104.11	125.00
4	h	71	ASN	N-CA-C	-5.09	105.73	111.28
1	J	1366	ALA	N-CA-C	-5.09	98.98	107.99
1	K	1298	SER	N-CA-C	5.09	116.89	108.49
4	g	105	ASP	CA-C-N	-5.09	113.47	119.84
4	g	105	ASP	C-N-CA	-5.09	113.47	119.84
1	C	46	GLU	CA-C-N	5.09	127.10	120.28
1	C	46	GLU	C-N-CA	5.09	127.10	120.28
1	A	1200	ARG	N-CA-CB	5.09	120.82	112.63
3	b	350	LEU	N-CA-C	-5.09	104.48	111.81
4	r	71	ASN	N-CA-C	-5.09	105.74	111.28
1	H	535	ASP	N-CA-C	5.08	119.06	112.86
1	O	527	THR	N-CA-CB	5.08	117.71	110.44
2	X	120	VAL	N-CA-C	5.08	119.91	109.34
4	f	71	ASN	N-CA-C	-5.08	105.74	111.28
4	l	71	ASN	N-CA-C	-5.08	105.74	111.28
3	V	421	ALA	O-C-N	-5.08	117.22	122.96
4	n	105	ASP	CA-C-N	-5.08	113.49	119.84
4	n	105	ASP	C-N-CA	-5.08	113.49	119.84
4	k	71	ASN	N-CA-C	-5.08	105.74	111.28
1	J	187	VAL	N-CA-C	-5.08	104.70	111.05
1	O	306	TYR	N-CA-C	5.08	117.83	109.76
4	j	71	ASN	N-CA-C	-5.08	105.75	111.28
4	q	71	ASN	N-CA-C	-5.08	105.75	111.28
1	O	418	ALA	CA-C-N	5.08	130.87	121.94
1	O	418	ALA	C-N-CA	5.08	130.87	121.94
1	P	431	GLU	CA-C-N	-5.08	114.75	120.89

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	P	431	GLU	C-N-CA	-5.08	114.75	120.89
2	R	120	VAL	N-CA-C	5.08	119.90	109.34
4	j	105	ASP	CA-C-N	-5.08	113.42	119.05
4	j	105	ASP	C-N-CA	-5.08	113.42	119.05
1	A	209	ARG	N-CA-C	-5.07	99.99	110.80
1	I	465	SER	N-CA-C	-5.07	105.88	111.71
2	U	238	ASN	N-CA-CB	5.07	117.76	110.40
4	i	71	ASN	N-CA-C	-5.07	105.75	111.28
4	s	86	GLU	N-CA-C	5.07	118.33	111.17
2	d	120	VAL	N-CA-C	5.07	119.89	109.34
4	t	22	MET	N-CA-C	-5.07	105.19	111.33
1	C	394	LEU	N-CA-C	5.07	119.18	113.15
1	C	1118	PRO	N-CA-C	5.07	120.20	113.86
2	U	120	VAL	N-CA-C	5.07	119.89	109.34
2	X	238	ASN	N-CA-CB	5.07	117.75	110.40
2	d	238	ASN	N-CA-CB	5.07	117.75	110.40
4	j	86	GLU	N-CA-C	5.07	118.32	111.17
1	M	1243	ASN	CA-C-O	-5.07	115.64	119.59
1	B	64	THR	N-CA-C	5.07	116.61	111.14
1	N	375	VAL	N-CA-CB	-5.07	103.92	112.44
1	P	266	HIS	CA-C-N	-5.07	115.67	123.07
1	P	266	HIS	C-N-CA	-5.07	115.67	123.07
2	a	86	CYS	CA-C-N	-5.07	114.69	119.76
2	a	86	CYS	C-N-CA	-5.07	114.69	119.76
2	a	120	VAL	N-CA-C	5.07	119.88	109.34
4	g	86	GLU	N-CA-C	5.07	118.31	111.17
1	I	10	GLY	N-CA-C	5.07	120.26	112.51
1	I	1219	GLU	CB-CA-C	-5.07	110.75	116.63
1	K	436	PRO	CA-C-N	-5.07	114.41	120.13
1	K	436	PRO	C-N-CA	-5.07	114.41	120.13
3	S	120	CYS	CB-CA-C	-5.07	110.75	116.63
3	b	188	ASN	N-CA-C	-5.07	105.76	111.28
1	I	527	THR	N-CA-C	-5.06	102.99	110.48
1	K	99	VAL	CB-CA-C	5.06	117.25	110.42
4	q	86	GLU	N-CA-C	5.06	118.31	111.17
1	G	522	ALA	N-CA-C	-5.06	104.91	111.74
1	D	376	PHE	CB-CA-C	-5.06	101.50	109.80
1	D	466	LEU	N-CA-C	5.06	116.80	111.28
1	K	269	THR	N-CA-C	5.06	117.53	108.17
1	O	305	THR	N-CA-CB	-5.06	103.22	111.22
2	a	238	ASN	N-CA-CB	5.06	117.73	110.40
4	g	71	ASN	N-CA-C	-5.06	105.77	111.28

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	m	71	ASN	N-CA-C	-5.06	105.76	111.28
1	J	485	ASN	CA-C-N	-5.06	113.52	119.84
1	J	485	ASN	C-N-CA	-5.06	113.52	119.84
1	J	435	PHE	O-C-N	5.06	125.65	121.35
1	M	1160	ALA	N-CA-C	-5.06	102.80	110.28
4	n	71	ASN	N-CA-C	-5.06	105.77	111.28
1	E	533	GLN	O-C-N	5.05	125.70	120.70
1	D	917	GLY	N-CA-C	-5.05	101.20	113.18
1	M	209	ARG	N-CA-C	-5.05	106.95	113.01
2	R	238	ASN	N-CA-CB	5.05	117.72	110.40
1	E	258	SER	CB-CA-C	-5.05	104.48	110.94
3	S	284	SER	CA-C-N	5.05	131.18	121.54
3	S	284	SER	C-N-CA	5.05	131.18	121.54
4	l	86	GLU	N-CA-C	5.05	118.29	111.17
1	G	421	GLY	N-CA-C	5.05	125.14	113.18
4	f	86	GLU	N-CA-C	5.05	118.29	111.17
1	C	435	PHE	CA-C-N	-5.05	115.18	120.38
1	C	435	PHE	C-N-CA	-5.05	115.18	120.38
3	e	149	PRO	CA-C-N	5.05	125.26	120.31
3	e	149	PRO	C-N-CA	5.05	125.26	120.31
4	o	86	GLU	N-CA-C	5.05	118.29	111.17
2	a	129	ARG	N-CA-C	-5.04	100.94	108.96
4	r	21	GLY	N-CA-C	5.04	118.65	112.14
1	A	78	ALA	N-CA-C	5.04	118.92	112.87
1	F	534	PRO	CB-CA-C	-5.04	106.06	111.56
1	N	917	GLY	CA-C-N	5.04	131.18	121.54
1	N	917	GLY	C-N-CA	5.04	131.18	121.54
1	P	194	PRO	CA-C-O	-5.04	115.52	121.67
3	V	120	CYS	CB-CA-C	-5.04	110.78	116.63
4	p	86	GLU	N-CA-C	5.04	118.28	111.17
1	B	51	ASP	CA-C-N	-5.04	114.16	121.71
1	B	51	ASP	C-N-CA	-5.04	114.16	121.71
1	L	583	PRO	CA-N-CD	-5.04	104.95	112.00
1	P	1158	GLY	CA-C-N	-5.04	114.72	119.76
1	P	1158	GLY	C-N-CA	-5.04	114.72	119.76
4	o	71	ASN	N-CA-C	-5.04	105.79	111.28
1	K	1193	ALA	N-CA-C	5.03	117.68	110.68
3	b	120	CYS	CB-CA-C	-5.03	110.79	116.63
4	m	86	GLU	N-CA-C	5.03	118.27	111.17
4	n	86	GLU	N-CA-C	5.03	118.27	111.17
1	F	259	VAL	CB-CA-C	5.03	119.54	111.29
1	K	1275	LYS	CA-C-N	5.03	127.28	120.44

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	K	1275	LYS	C-N-CA	5.03	127.28	120.44
4	i	86	GLU	N-CA-C	5.03	118.27	111.17
1	J	1135	ALA	O-C-N	5.03	124.93	121.71
1	L	518	VAL	O-C-N	-5.03	117.30	122.63
3	S	278	HIS	C-N-CD	-5.03	104.38	125.00
2	Z	223	LEU	CA-C-N	-5.03	117.07	120.24
2	Z	223	LEU	C-N-CA	-5.03	117.07	120.24
3	b	141	PRO	CA-N-CD	-5.03	104.46	111.50
1	D	511	GLN	N-CA-C	5.03	116.57	111.14
2	R	15	GLY	N-CA-C	-5.03	101.26	113.18
3	Y	120	CYS	CB-CA-C	-5.03	110.80	116.63
4	t	86	GLU	N-CA-C	5.03	118.26	111.17
1	C	1314	PRO	N-CA-C	-5.02	105.65	110.47
1	L	1291	ARG	N-CA-C	5.02	116.84	111.36
1	K	801	ARG	CA-C-N	-5.02	114.44	119.56
1	K	801	ARG	C-N-CA	-5.02	114.44	119.56
1	M	948	THR	N-CA-C	-5.02	106.93	113.16
3	e	281	ARG	N-CA-C	-5.02	98.71	109.81
4	s	97	THR	CA-C-N	-5.02	113.91	120.44
4	s	97	THR	C-N-CA	-5.02	113.91	120.44
1	I	1252	TYR	N-CA-C	-5.02	102.43	109.96
1	M	1300	VAL	N-CA-C	-5.02	101.12	108.54
1	M	304	VAL	N-CA-C	5.01	119.77	109.34
3	S	29	GLY	N-CA-C	-5.01	106.71	112.73
1	D	1171	VAL	N-CA-C	-5.01	102.13	108.05
1	K	1192	VAL	N-CA-C	-5.01	105.51	110.62
4	s	71	ASN	N-CA-C	-5.01	105.82	111.28
1	K	535	ASP	N-CA-C	5.01	118.65	112.24
1	M	1325	CYS	N-CA-C	5.01	118.49	112.38
2	a	79	LEU	CA-C-N	-5.01	113.49	119.05
2	a	79	LEU	C-N-CA	-5.01	113.49	119.05
1	D	192	ALA	CA-C-N	-5.01	115.22	120.38
1	D	192	ALA	C-N-CA	-5.01	115.22	120.38
1	O	1333	PRO	CA-N-CD	-5.00	104.99	112.00
1	K	596	GLY	N-CA-C	-5.00	101.32	113.18
1	H	431	GLU	CA-C-N	-5.00	114.67	119.87
1	H	431	GLU	C-N-CA	-5.00	114.67	119.87
1	M	436	PRO	CA-C-N	-5.00	114.48	120.13
1	M	436	PRO	C-N-CA	-5.00	114.48	120.13

There are no chirality outliers.

All (30) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	1276	PHE	Mainchain
1	A	374	LEU	Mainchain
1	B	265	THR	Mainchain
1	C	464	PRO	Mainchain
1	D	92	GLU	Mainchain
1	F	294	LYS	Mainchain
2	R	58	PRO	Mainchain
3	S	330	VAL	Mainchain
2	U	58	PRO	Mainchain
3	V	330	VAL	Mainchain
2	X	58	PRO	Mainchain
3	Y	330	VAL	Mainchain
2	a	58	PRO	Mainchain
2	d	58	PRO	Mainchain
3	e	330	VAL	Mainchain
4	f	25	LEU	Mainchain
4	g	25	LEU	Mainchain
4	h	25	LEU	Mainchain
4	i	25	LEU	Mainchain
4	j	25	LEU	Mainchain
4	k	25	LEU	Mainchain
4	l	25	LEU	Mainchain
4	m	25	LEU	Mainchain
4	n	25	LEU	Mainchain
4	o	25	LEU	Mainchain
4	p	25	LEU	Mainchain
4	q	25	LEU	Mainchain
4	r	25	LEU	Mainchain
4	s	25	LEU	Mainchain
4	t	25	LEU	Mainchain

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	10160	0	9894	1004	0
1	B	10105	0	9836	903	0
1	C	10220	0	9957	884	0
1	D	10229	0	9960	860	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	E	10233	0	9975	700	0
1	F	10239	0	9994	768	0
1	G	10104	0	9796	1206	0
1	H	10245	0	9989	887	0
1	I	10239	0	9984	1110	0
1	J	10204	0	9915	1636	0
1	K	10253	0	10009	892	0
1	L	10242	0	9987	928	0
1	M	10275	0	10022	920	0
1	N	10254	0	10009	878	0
1	O	10251	0	10005	870	0
1	P	10256	0	10001	821	0
2	Q	2078	0	2053	294	0
2	R	2175	0	2214	269	0
2	T	2078	0	2053	245	0
2	U	2179	0	2221	183	0
2	W	2078	0	2053	286	0
2	X	2187	0	2224	278	0
2	Z	2063	0	2027	290	0
2	a	2169	0	2202	423	0
2	c	2078	0	2051	229	0
2	d	2187	0	2225	212	0
3	S	2267	0	2077	436	0
3	V	2365	0	2149	436	0
3	Y	2386	0	2186	505	0
3	b	2331	0	2106	488	0
3	e	2364	0	2167	412	0
4	f	628	0	480	215	0
4	g	628	0	480	210	0
4	h	628	0	480	189	0
4	i	628	0	480	182	0
4	j	632	0	490	189	0
4	k	628	0	479	202	0
4	l	628	0	479	182	0
4	m	628	0	480	212	0
4	n	625	0	472	207	0
4	o	628	0	480	237	0
4	p	628	0	480	214	0
4	q	628	0	480	220	0
4	r	632	0	491	209	0
4	s	634	0	491	237	0
4	t	628	0	480	193	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
All	All	205925	0	198563	20760	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 51.

All (20760) 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)
2:Q:227:LEU:CD1	2:Q:228:LEU:HD12	1.19	1.66
1:G:425:PRO:HB2	1:G:429:HIS:CE1	1.32	1.64
2:c:227:LEU:CD1	2:c:228:LEU:HD12	1.19	1.62
4:g:16:ASN:CB	4:g:20:LEU:HD23	1.29	1.62
2:W:227:LEU:CD1	2:W:228:LEU:HD12	1.19	1.62
1:K:124:ILE:CD1	1:L:58:LEU:HD22	1.19	1.61
4:s:16:ASN:CB	4:s:20:LEU:CD1	1.77	1.61
1:K:1070:SER:CB	1:K:1107:THR:HG21	1.30	1.61
1:A:90:MET:CE	1:B:31:SER:HB2	1.30	1.60
4:j:7:HIS:CE1	4:j:44:HIS:CE1	1.90	1.60
4:m:7:HIS:CE1	4:m:44:HIS:CE1	1.90	1.60
1:I:486:PRO:HG2	1:I:509:TRP:CH2	1.32	1.59
4:o:7:HIS:CE1	4:o:44:HIS:CE1	1.90	1.59
4:t:7:HIS:CE1	4:t:44:HIS:CE1	1.90	1.59
1:B:534:PRO:CB	1:C:1154:GLY:HA3	1.23	1.59
1:L:291:SER:HA	1:L:294:LYS:CE	1.14	1.59
2:c:296:ARG:HD2	2:c:318:PRO:C	1.26	1.59
1:I:837:ALA:CB	4:n:54:LEU:HD21	1.24	1.59
1:K:837:ALA:HA	4:p:54:LEU:CD2	1.33	1.59
4:k:7:HIS:CE1	4:k:44:HIS:CE1	1.90	1.58
1:K:494:PRO:HB2	1:K:757:ASP:CB	1.16	1.58
2:T:227:LEU:CD1	2:T:228:LEU:HD12	1.19	1.58
1:B:534:PRO:HB3	1:C:1154:GLY:CA	1.16	1.57
3:S:300:LEU:HD21	3:S:332:SER:CB	1.17	1.57
4:l:16:ASN:CB	4:l:20:LEU:HD23	1.10	1.57
4:p:7:HIS:CE1	4:p:44:HIS:CE1	1.90	1.57
4:s:7:HIS:CE1	4:s:44:HIS:CE1	1.90	1.57
1:G:248:LEU:CD2	1:G:293:LEU:HD11	1.26	1.57
3:b:296:LEU:CD2	3:b:450:VAL:HG21	1.30	1.57
4:q:7:HIS:CE1	4:q:44:HIS:CE1	1.90	1.57
2:R:13:PRO:HD3	2:R:43:LEU:CD2	1.20	1.57
4:l:7:HIS:CE1	4:l:44:HIS:CE1	1.90	1.57
4:h:7:HIS:CE1	4:h:44:HIS:CE1	1.90	1.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:467:MET:CB	1:J:920:THR:CB	1.75	1.56
1:M:47:ASN:HD21	3:Y:276:THR:CG2	1.09	1.56
3:b:296:LEU:CD2	3:b:450:VAL:CG2	1.75	1.56
1:L:476:VAL:CG1	1:L:571:ILE:HD11	1.34	1.56
1:G:426:ALA:H	1:G:429:HIS:CE1	1.24	1.56
3:S:167:ALA:CB	3:S:226:ARG:HG3	1.27	1.56
1:H:300:ALA:CB	1:H:362:ARG:HD3	1.34	1.55
4:g:7:HIS:CE1	4:g:44:HIS:CE1	1.90	1.55
1:H:1218:LYS:CE	1:I:1173:ARG:CZ	1.83	1.55
1:O:534:PRO:HB3	1:P:1154:GLY:CA	1.14	1.55
4:n:7:HIS:CE1	4:n:44:HIS:CE1	1.90	1.54
3:b:292:ALA:CB	3:b:295:ASP:CB	1.85	1.54
4:f:7:HIS:CE1	4:f:44:HIS:CE1	1.90	1.54
4:i:7:HIS:CB	4:i:52:GLU:CB	1.86	1.54
4:s:7:HIS:CB	4:s:52:GLU:CB	1.86	1.54
4:s:16:ASN:CB	4:s:20:LEU:HD13	1.08	1.54
1:L:494:PRO:HB2	1:L:757:ASP:CB	1.07	1.54
3:S:143:LEU:CD1	3:S:239:VAL:HG22	1.36	1.54
4:i:7:HIS:CE1	4:i:44:HIS:CE1	1.90	1.54
4:n:7:HIS:CB	4:n:52:GLU:CB	1.86	1.54
4:r:7:HIS:CE1	4:r:44:HIS:CE1	1.90	1.54
3:S:300:LEU:CD2	3:S:332:SER:CB	1.84	1.54
4:g:7:HIS:CB	4:g:52:GLU:CB	1.86	1.53
4:h:7:HIS:CB	4:h:52:GLU:CB	1.86	1.53
4:p:7:HIS:CB	4:p:52:GLU:CB	1.86	1.53
1:K:559:PRO:HB2	1:K:755:ARG:CZ	1.38	1.53
3:b:296:LEU:HD21	3:b:450:VAL:CG2	1.07	1.53
1:G:323:GLY:CA	1:G:326:VAL:HG11	1.35	1.52
1:A:269:THR:CA	1:A:300:ALA:HB2	1.36	1.52
2:Q:296:ARG:HD2	2:Q:318:PRO:C	1.26	1.52
2:T:296:ARG:HD2	2:T:318:PRO:C	1.26	1.52
4:q:7:HIS:CB	4:q:52:GLU:CB	1.86	1.52
3:S:300:LEU:HD21	3:S:332:SER:CA	1.06	1.52
2:T:227:LEU:HD12	2:T:228:LEU:CD1	1.39	1.52
3:b:435:CYS:HB3	3:b:437:HIS:CD2	1.41	1.52
2:c:227:LEU:HD12	2:c:228:LEU:CD1	1.39	1.52
1:D:534:PRO:HB3	1:E:1154:GLY:CA	1.36	1.51
1:G:425:PRO:HB2	1:G:429:HIS:ND1	1.25	1.51
1:G:467:MET:CE	1:G:1033:PRO:HD3	1.37	1.51
1:H:837:ALA:CA	4:m:54:LEU:HD21	1.35	1.51
4:l:7:HIS:CB	4:l:52:GLU:CB	1.86	1.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:r:7:HIS:CB	4:r:52:GLU:CB	1.86	1.51
1:M:494:PRO:HB2	1:M:757:ASP:CB	1.08	1.51
2:a:145:THR:HG21	2:a:293:PRO:CG	1.41	1.51
1:P:439:GLN:CG	1:P:451:ARG:NH2	1.69	1.51
3:b:124:ALA:CB	3:b:214:ASN:HB3	1.38	1.51
4:t:7:HIS:CB	4:t:52:GLU:CB	1.86	1.51
1:J:1256:LEU:HD23	1:J:1263:LEU:CD2	1.07	1.51
1:A:90:MET:HE1	1:B:31:SER:CB	1.36	1.50
1:I:956:TYR:CE1	1:I:958:LEU:HG	1.46	1.50
2:a:97:THR:CG2	2:a:315:ILE:HA	1.41	1.50
3:b:189:PHE:HA	3:b:211:ILE:CD1	1.10	1.50
1:G:758:ALA:CB	1:G:904:ARG:HH22	1.19	1.50
1:O:534:PRO:CB	1:P:1154:GLY:HA3	1.07	1.50
1:B:834:ARG:HG3	4:i:94:LEU:CB	1.40	1.50
1:F:269:THR:CG2	1:F:367:LEU:HD12	1.39	1.50
1:H:837:ALA:HA	4:m:54:LEU:CD2	1.40	1.50
2:W:296:ARG:HD2	2:W:318:PRO:C	1.26	1.49
4:m:7:HIS:CB	4:m:52:GLU:CB	1.86	1.49
1:H:300:ALA:CB	1:H:362:ARG:CD	1.89	1.49
4:k:7:HIS:CB	4:k:52:GLU:CB	1.86	1.49
1:O:834:ARG:HG3	4:t:94:LEU:CB	1.38	1.49
4:m:16:ASN:CB	4:m:20:LEU:CD2	1.90	1.49
4:o:7:HIS:CB	4:o:52:GLU:CB	1.86	1.49
1:I:1225:LEU:CD2	1:I:1234:PRO:HG2	1.41	1.49
2:X:145:THR:HG21	2:X:293:PRO:CG	1.41	1.48
4:j:7:HIS:CB	4:j:52:GLU:CB	1.86	1.48
4:f:7:HIS:CB	4:f:52:GLU:CB	1.86	1.48
1:G:425:PRO:CB	1:G:429:HIS:CE1	1.90	1.48
1:K:1070:SER:HB3	1:K:1107:THR:CG2	1.43	1.48
3:V:287:THR:CG2	3:V:289:PRO:HD3	1.44	1.48
2:U:145:THR:HG21	2:U:293:PRO:CG	1.41	1.48
1:J:71:LEU:CA	1:J:76:SER:HB2	1.38	1.48
2:d:145:THR:HG21	2:d:293:PRO:CG	1.41	1.48
1:L:494:PRO:CB	1:L:757:ASP:CB	1.91	1.47
1:N:758:ALA:CB	1:N:904:ARG:HH22	1.27	1.47
2:W:227:LEU:HD12	2:W:228:LEU:CD1	1.39	1.47
1:J:1206:ARG:HH21	1:J:1247:SER:CA	1.26	1.47
1:L:291:SER:CA	1:L:294:LYS:HE3	1.45	1.47
2:Q:227:LEU:HD12	2:Q:228:LEU:CD1	1.39	1.47
4:m:16:ASN:CB	4:m:20:LEU:HD23	1.01	1.47
1:K:666:ASN:HB3	1:K:940:MET:CE	1.41	1.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:790:ARG:NH2	4:q:101:PHE:CB	1.77	1.47
3:b:190:LEU:CD1	3:b:245:MET:HE3	1.43	1.47
4:s:10:SER:N	4:s:17:VAL:CB	1.76	1.47
1:G:1166:PHE:CZ	2:Q:280:ALA:HB3	1.50	1.46
2:R:145:THR:HG21	2:R:293:PRO:CG	1.41	1.46
3:V:300:LEU:HD11	3:V:332:SER:CA	1.43	1.46
2:a:35:PRO:HA	2:a:70:ARG:CD	1.42	1.46
1:K:124:ILE:CD1	1:L:58:LEU:CD2	1.90	1.46
1:P:433:ARG:NH2	1:P:1339:ASP:CG	1.70	1.46
2:a:145:THR:CG2	2:a:293:PRO:HG3	1.46	1.46
1:B:956:TYR:HE1	1:B:958:LEU:CG	1.28	1.46
1:B:1054:ARG:NH2	1:B:1123:GLY:H	1.01	1.46
1:B:956:TYR:CE1	1:B:958:LEU:HG	1.49	1.45
2:X:145:THR:CG2	2:X:293:PRO:HG3	1.45	1.45
2:a:35:PRO:CA	2:a:70:ARG:HD3	1.42	1.45
3:b:292:ALA:HB2	3:b:295:ASP:CB	1.38	1.45
1:O:758:ALA:O	1:O:779:ASN:CA	1.64	1.45
1:G:1166:PHE:CE2	2:Q:281:HIS:HB2	1.48	1.45
1:I:482:GLU:CA	1:I:569:GLY:H	0.94	1.45
3:V:39:PRO:HB2	3:V:41:ILE:CD1	1.43	1.45
1:J:71:LEU:HA	1:J:76:SER:CB	1.44	1.45
3:S:287:THR:CG2	3:S:289:PRO:HD3	1.43	1.45
1:O:759:GLY:CA	1:O:781:GLY:H	1.29	1.45
3:Y:287:THR:CG2	3:Y:289:PRO:HD3	1.43	1.45
1:A:263:ARG:C	1:A:264:LEU:HD12	1.42	1.44
1:O:889:PRO:HD3	4:s:69:ALA:CB	1.46	1.44
3:e:287:THR:CG2	3:e:289:PRO:HD3	1.43	1.44
4:r:6:PHE:CB	4:r:10:SER:CB	1.95	1.44
1:G:295:VAL:HG21	1:G:368:VAL:C	1.39	1.44
1:J:717:GLN:HE22	1:J:750:ARG:NH1	0.96	1.44
1:P:439:GLN:CD	1:P:451:ARG:NH2	1.70	1.44
4:n:6:PHE:CB	4:n:10:SER:CB	1.95	1.44
1:J:268:ASP:HA	1:J:301:ASP:CB	1.06	1.44
1:M:766:ALA:HB3	1:M:784:LEU:CD2	1.44	1.44
1:B:1054:ARG:HH22	1:B:1123:GLY:N	1.02	1.44
4:i:6:PHE:CB	4:i:10:SER:CB	1.96	1.44
1:M:840:GLN:NE2	4:f:58:ALA:HB2	1.29	1.43
2:a:35:PRO:HG3	2:a:70:ARG:NH1	1.26	1.43
4:h:6:PHE:CB	4:h:10:SER:CB	1.96	1.43
4:t:10:SER:H	4:t:17:VAL:CB	1.30	1.43
1:G:295:VAL:CG2	1:G:369:ALA:N	1.77	1.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R:145:THR:CG2	2:R:293:PRO:HG3	1.46	1.43
4:f:6:PHE:CB	4:f:10:SER:CB	1.96	1.43
1:J:717:GLN:NE2	1:J:750:ARG:HH11	1.05	1.43
1:K:840:GLN:NE2	4:p:58:ALA:HB2	1.27	1.43
1:P:759:GLY:HA3	1:P:780:ASP:C	1.40	1.43
2:a:35:PRO:CG	2:a:70:ARG:NH1	1.80	1.43
4:m:6:PHE:CB	4:m:10:SER:CB	1.95	1.43
1:E:842:MET:HE3	4:k:61:LEU:CD1	1.46	1.43
3:b:124:ALA:HB1	3:b:214:ASN:CB	1.45	1.43
4:j:6:PHE:CB	4:j:10:SER:CB	1.95	1.43
4:o:6:PHE:CB	4:o:10:SER:CB	1.96	1.43
4:o:90:PRO:CB	4:o:103:VAL:CB	1.95	1.43
1:B:25:SER:OG	1:B:64:THR:CG2	1.67	1.43
1:H:1201:ARG:NH1	1:I:448:GLN:NE2	1.67	1.43
1:J:1256:LEU:CD2	1:J:1263:LEU:HD21	1.45	1.43
2:Q:227:LEU:CD1	2:Q:228:LEU:CD1	1.90	1.43
2:U:145:THR:CG2	2:U:293:PRO:HG3	1.46	1.43
1:J:279:VAL:CG2	1:J:1064:LEU:HB3	1.46	1.42
3:b:127:ALA:CB	3:b:285:ALA:O	1.67	1.42
4:m:7:HIS:HB3	4:m:52:GLU:CB	0.95	1.42
4:p:7:HIS:HB3	4:p:52:GLU:CB	0.95	1.42
1:I:579:ASN:O	1:I:582:LEU:CD1	1.65	1.42
3:b:189:PHE:CA	3:b:211:ILE:CD1	1.97	1.42
4:q:7:HIS:HB3	4:q:52:GLU:CB	0.95	1.42
2:T:227:LEU:CD1	2:T:228:LEU:CD1	1.90	1.42
2:c:227:LEU:CD1	2:c:228:LEU:CD1	1.90	1.42
4:g:6:PHE:CB	4:g:10:SER:CB	1.95	1.42
4:g:7:HIS:HB3	4:g:52:GLU:CB	0.95	1.42
4:h:7:HIS:HB3	4:h:52:GLU:CB	0.95	1.42
4:n:16:ASN:CB	4:n:20:LEU:HD23	1.50	1.42
4:p:8:ARG:CB	4:p:18:ARG:CB	1.96	1.42
1:J:1256:LEU:CD2	1:J:1263:LEU:CD2	1.97	1.42
1:G:758:ALA:CB	1:G:904:ARG:NH2	1.81	1.42
1:F:1085:THR:CG2	1:F:1090:ASN:ND2	1.83	1.42
3:V:437:HIS:NE2	3:V:451:ILE:HD12	1.32	1.42
4:k:7:HIS:HB3	4:k:52:GLU:CB	0.95	1.42
4:k:16:ASN:CB	4:k:20:LEU:HD23	1.47	1.42
4:l:6:PHE:CB	4:l:10:SER:CB	1.95	1.42
4:r:7:HIS:HB3	4:r:52:GLU:CB	0.95	1.42
4:l:7:HIS:HB3	4:l:52:GLU:CB	0.95	1.41
4:q:6:PHE:CB	4:q:10:SER:CB	1.95	1.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:124:ILE:CD1	1:D:58:LEU:HD12	1.50	1.41
1:H:1218:LYS:CE	1:I:1173:ARG:NH1	1.79	1.41
4:o:7:HIS:HB3	4:o:52:GLU:CB	0.95	1.41
1:G:1165:VAL:CG2	2:R:240:LEU:O	1.68	1.41
3:V:417:CYS:O	3:V:418:THR:CG2	1.69	1.41
4:f:7:HIS:HB3	4:f:52:GLU:CB	0.95	1.41
4:t:7:HIS:HB3	4:t:52:GLU:CB	0.95	1.41
4:s:7:HIS:HB3	4:s:52:GLU:CB	0.95	1.41
1:F:768:ALA:HA	1:F:786:ASN:CB	1.49	1.40
1:M:494:PRO:CB	1:M:757:ASP:CB	1.99	1.40
2:d:145:THR:CG2	2:d:293:PRO:HG3	1.46	1.40
3:e:287:THR:HG22	3:e:289:PRO:CD	1.50	1.40
1:J:268:ASP:CA	1:J:301:ASP:HB2	1.51	1.40
1:K:837:ALA:CA	4:p:54:LEU:HD21	1.49	1.40
4:j:7:HIS:HB3	4:j:52:GLU:CB	0.95	1.40
4:k:6:PHE:CB	4:k:10:SER:CB	1.96	1.40
4:n:7:HIS:HB3	4:n:52:GLU:CB	0.95	1.40
1:G:1166:PHE:CD2	2:Q:281:HIS:HB2	1.54	1.40
1:L:1166:PHE:CB	3:Y:140:LEU:HD13	1.51	1.40
2:R:13:PRO:CD	2:R:43:LEU:HD23	1.50	1.40
3:V:33:LEU:O	3:V:36:VAL:CG1	1.67	1.40
3:V:320:ARG:CB	3:V:351:ARG:HD3	1.49	1.40
3:Y:300:LEU:CD1	3:Y:332:SER:HA	1.50	1.40
4:i:7:HIS:HB3	4:i:52:GLU:CB	0.95	1.40
3:S:287:THR:HG22	3:S:289:PRO:CD	1.50	1.40
1:O:759:GLY:HA2	1:O:779:ASN:C	1.43	1.40
1:O:759:GLY:HA3	1:O:781:GLY:N	1.11	1.40
3:S:112:ARG:NH1	3:S:262:SER:HB2	1.37	1.40
2:T:108:LEU:CD1	2:T:182:ASN:HD22	1.35	1.40
2:W:272:TYR:CE2	2:X:161:ARG:HG3	1.57	1.40
2:Z:295:VAL:HG11	2:Z:314:VAL:CG1	1.51	1.40
2:R:129:ARG:CD	2:R:136:THR:HG22	1.52	1.39
1:H:1218:LYS:NZ	1:I:1173:ARG:CZ	1.78	1.39
1:F:582:LEU:HD11	1:F:587:CYS:CB	1.52	1.39
4:g:22:MET:CE	4:g:60:ALA:HB3	1.53	1.39
1:M:47:ASN:ND2	3:Y:276:THR:HG22	1.36	1.39
4:q:22:MET:CE	4:q:60:ALA:HB3	1.53	1.39
4:r:79:PHE:CB	4:r:88:LEU:CD2	1.99	1.39
1:B:1316:GLY:HA2	3:S:260:LEU:CD1	1.50	1.39
2:W:227:LEU:CD1	2:W:228:LEU:CD1	1.90	1.39
4:f:22:MET:CE	4:f:60:ALA:HB3	1.53	1.39

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:758:ALA:HB1	1:G:904:ARG:NH2	1.33	1.38
1:B:956:TYR:CE1	1:B:958:LEU:CG	2.03	1.38
4:k:22:MET:CE	4:k:60:ALA:HB3	1.53	1.38
1:F:1085:THR:CG2	1:F:1090:ASN:CG	1.97	1.38
3:V:300:LEU:CD1	3:V:332:SER:HA	1.13	1.38
1:G:425:PRO:CB	1:G:429:HIS:ND1	1.76	1.38
1:K:1218:LYS:HE3	1:L:1173:ARG:NH2	1.06	1.38
3:S:417:CYS:O	3:S:418:THR:CG2	1.69	1.38
1:J:529:GLU:HA	1:J:532:MET:CE	1.50	1.38
2:T:108:LEU:CD1	2:T:182:ASN:ND2	1.84	1.38
3:e:112:ARG:NH1	3:e:262:SER:HB2	1.37	1.38
4:i:22:MET:CE	4:i:60:ALA:HB3	1.53	1.38
4:j:24:GLY:O	4:j:28:ALA:CB	1.72	1.38
4:k:24:GLY:O	4:k:28:ALA:CB	1.72	1.38
4:t:22:MET:CE	4:t:60:ALA:HB3	1.53	1.38
1:G:742:LEU:HD11	1:G:754:CYS:SG	1.60	1.38
1:I:956:TYR:HE1	1:I:958:LEU:CG	1.37	1.38
1:J:367:LEU:HD21	1:J:376:PHE:CE1	1.57	1.38
1:O:439:GLN:NE2	1:O:451:ARG:HH21	1.17	1.38
3:Y:287:THR:HG22	3:Y:289:PRO:CD	1.51	1.37
4:j:22:MET:CE	4:j:60:ALA:HB3	1.53	1.38
4:m:22:MET:CE	4:m:60:ALA:HB3	1.53	1.38
1:G:295:VAL:CG2	1:G:368:VAL:C	1.96	1.37
3:b:352:ILE:CB	3:b:416:THR:HA	1.52	1.37
4:r:22:MET:CE	4:r:60:ALA:HB3	1.53	1.37
4:s:24:GLY:O	4:s:28:ALA:CB	1.72	1.37
1:G:1218:LYS:HD2	1:G:1221:ASP:CG	1.47	1.37
1:H:889:PRO:HD3	4:m:69:ALA:CB	1.52	1.37
4:h:24:GLY:O	4:h:28:ALA:CB	1.72	1.37
4:p:24:GLY:O	4:p:28:ALA:CB	1.72	1.37
1:C:1229:HIS:NE2	1:C:1241:THR:HG21	1.36	1.37
1:K:950:GLN:O	1:K:953:GLU:CD	1.68	1.37
1:O:759:GLY:CA	1:O:781:GLY:N	1.82	1.37
4:i:24:GLY:O	4:i:28:ALA:CB	1.72	1.37
4:o:22:MET:CE	4:o:60:ALA:HB3	1.53	1.37
4:q:24:GLY:O	4:q:28:ALA:CB	1.72	1.37
4:s:22:MET:CE	4:s:60:ALA:HB3	1.53	1.37
1:J:889:PRO:HD3	4:o:69:ALA:CB	1.54	1.37
1:O:267:ALA:CB	1:O:274:VAL:HB	1.52	1.37
3:V:287:THR:HG22	3:V:289:PRO:CD	1.50	1.37
4:f:24:GLY:O	4:f:28:ALA:CB	1.72	1.37

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:l:22:MET:CE	4:l:60:ALA:HB3	1.53	1.37
4:s:16:ASN:CA	4:s:20:LEU:CD1	2.01	1.37
1:J:268:ASP:CA	1:J:301:ASP:CB	1.98	1.36
1:K:1218:LYS:CE	1:L:1173:ARG:NH2	1.85	1.36
1:I:1216:GLY:N	1:I:1221:ASP:OD2	1.58	1.36
4:o:24:GLY:O	4:o:28:ALA:CB	1.72	1.36
1:I:486:PRO:CG	1:I:509:TRP:HH2	1.37	1.36
1:O:267:ALA:HB1	1:O:274:VAL:CB	1.53	1.36
1:G:1166:PHE:CE2	2:Q:281:HIS:N	1.92	1.36
1:A:269:THR:N	1:A:300:ALA:HB2	1.38	1.36
1:D:768:ALA:HA	1:D:786:ASN:ND2	1.08	1.36
3:S:300:LEU:CD2	3:S:332:SER:CA	1.98	1.36
3:V:339:LEU:HD23	3:V:422:PHE:CE2	1.60	1.36
4:g:24:GLY:O	4:g:28:ALA:CB	1.72	1.36
4:l:16:ASN:CB	4:l:20:LEU:CD2	2.00	1.36
1:G:418:ALA:CB	1:G:1354:ARG:HH21	1.37	1.35
1:G:1166:PHE:CD2	2:Q:281:HIS:CB	2.09	1.35
1:J:575:TRP:CZ2	1:J:918:ALA:HB1	1.61	1.35
3:V:112:ARG:NH1	3:V:262:SER:HB2	1.37	1.35
3:Y:436:LEU:HD23	3:Y:450:VAL:CG2	1.55	1.35
4:p:22:MET:CE	4:p:60:ALA:HB3	1.53	1.35
1:G:295:VAL:HG23	1:G:368:VAL:CA	1.56	1.35
3:Y:128:GLY:HA3	3:Y:287:THR:O	1.24	1.35
3:b:193:ALA:HB1	3:b:231:LEU:CD1	1.56	1.35
4:m:24:GLY:O	4:m:28:ALA:CB	1.72	1.35
4:n:24:GLY:O	4:n:28:ALA:CB	1.72	1.35
1:J:1206:ARG:NH2	1:J:1247:SER:HA	1.40	1.35
1:G:505:PHE:CE1	1:G:509:TRP:CD1	2.14	1.35
1:D:918:ALA:HB2	1:D:1032:SER:CB	1.54	1.35
1:J:667:ASP:CG	1:J:669:SER:OG	1.70	1.35
3:S:339:LEU:HD23	3:S:422:PHE:CE2	1.60	1.35
3:Y:112:ARG:NH1	3:Y:262:SER:HB2	1.37	1.35
4:t:24:GLY:O	4:t:28:ALA:CB	1.72	1.35
1:N:1166:PHE:CB	3:V:142:HIS:HE1	1.41	1.34
4:r:24:GLY:O	4:r:28:ALA:CB	1.72	1.34
1:P:439:GLN:HG2	1:P:451:ARG:NH2	1.24	1.34
2:Z:223:LEU:HD13	2:Z:271:LEU:CB	1.54	1.34
2:a:35:PRO:CB	2:a:70:ARG:NH1	1.90	1.34
3:e:339:LEU:HD23	3:e:422:PHE:CE2	1.60	1.34
4:l:24:GLY:O	4:l:28:ALA:CB	1.72	1.34
1:I:1218:LYS:HD2	1:J:1173:ARG:NH2	1.40	1.34

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:m:46:THR:HG21	4:m:50:VAL:CG1	1.58	1.34
1:I:1225:LEU:CD2	1:I:1234:PRO:CG	2.02	1.34
1:J:635:HIS:CD2	1:J:787:THR:HG22	1.60	1.34
1:P:439:GLN:NE2	1:P:451:ARG:NH2	1.70	1.34
4:m:3:ALA:O	4:m:40:TYR:CB	1.76	1.34
1:E:840:GLN:NE2	4:k:58:ALA:HB2	1.39	1.33
1:O:1165:VAL:CG1	2:a:196:ALA:HB1	1.54	1.33
4:q:3:ALA:O	4:q:40:TYR:CB	1.76	1.33
4:t:3:ALA:O	4:t:40:TYR:CB	1.76	1.33
4:t:46:THR:HG21	4:t:50:VAL:CG1	1.58	1.33
1:L:1086:GLY:CA	2:W:99:ASN:HD21	1.41	1.33
2:Z:295:VAL:HG13	2:Z:315:ILE:O	1.20	1.33
4:h:3:ALA:O	4:h:40:TYR:CB	1.76	1.33
4:j:46:THR:HG21	4:j:50:VAL:CG1	1.58	1.33
4:k:46:THR:HG21	4:k:50:VAL:CG1	1.58	1.33
4:l:3:ALA:O	4:l:40:TYR:CB	1.76	1.33
1:N:730:ALA:O	1:N:745:HIS:CE1	1.81	1.33
1:N:758:ALA:HB1	1:N:904:ARG:NH2	1.44	1.33
2:T:295:VAL:HG11	2:T:314:VAL:CG1	1.59	1.33
4:o:3:ALA:O	4:o:40:TYR:CB	1.76	1.33
1:B:956:TYR:CE1	1:B:958:LEU:CD1	2.09	1.33
1:J:667:ASP:CG	1:J:669:SER:HG	1.32	1.33
1:J:840:GLN:NE2	4:o:58:ALA:HB2	1.42	1.33
1:N:837:ALA:HA	4:r:54:LEU:CD2	1.57	1.33
2:Q:295:VAL:HG11	2:Q:314:VAL:CG1	1.59	1.33
4:r:3:ALA:O	4:r:40:TYR:CB	1.76	1.33
1:H:1218:LYS:HE2	1:I:1173:ARG:NH2	1.40	1.33
1:I:529:GLU:HA	1:I:532:MET:CE	1.57	1.33
1:L:768:ALA:HA	1:L:786:ASN:ND2	1.43	1.33
1:N:1166:PHE:CB	3:V:142:HIS:CE1	2.11	1.33
4:f:46:THR:HG21	4:f:50:VAL:CG1	1.58	1.33
1:A:834:ARG:HG3	4:h:94:LEU:CB	1.57	1.32
1:D:534:PRO:CB	1:E:1154:GLY:HA3	1.59	1.32
1:N:842:MET:HE3	4:r:61:LEU:CD1	1.57	1.32
3:V:278:HIS:HB3	3:V:279:PRO:CD	1.57	1.32
4:g:3:ALA:O	4:g:40:TYR:CB	1.76	1.32
4:i:46:THR:HG21	4:i:50:VAL:CG1	1.58	1.32
4:i:90:PRO:CB	4:i:103:VAL:CB	2.05	1.32
4:k:3:ALA:O	4:k:40:TYR:CB	1.76	1.32
4:n:90:PRO:CB	4:n:103:VAL:CB	2.05	1.32
1:E:77:VAL:HB	1:E:266:HIS:CE1	1.64	1.32

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:g:46:THR:HG21	4:g:50:VAL:CG1	1.58	1.32
1:G:1173:ARG:CB	2:R:185:ARG:HB2	1.57	1.32
4:q:46:THR:HG21	4:q:50:VAL:CG1	1.58	1.32
1:M:69:ARG:NH1	3:e:41:ILE:HD12	1.44	1.32
2:c:295:VAL:HG11	2:c:314:VAL:CG1	1.59	1.32
4:h:46:THR:HG21	4:h:50:VAL:CG1	1.58	1.32
4:n:46:THR:HG21	4:n:50:VAL:CG1	1.58	1.32
1:B:252:THR:CG2	1:B:373:ARG:HD2	1.57	1.32
1:C:756:ILE:HD11	1:C:906:THR:CG2	1.59	1.32
1:H:956:TYR:CE1	1:H:958:LEU:HG	1.63	1.32
3:S:167:ALA:HB2	3:S:226:ARG:CG	1.58	1.32
3:S:300:LEU:CD2	3:S:332:SER:HA	1.55	1.32
3:b:435:CYS:CB	3:b:437:HIS:CD2	2.10	1.32
4:n:3:ALA:O	4:n:40:TYR:CB	1.76	1.32
4:s:46:THR:HG21	4:s:50:VAL:CG1	1.58	1.32
1:G:264:LEU:HD21	1:G:359:GLN:OE1	1.25	1.31
1:B:1133:ARG:NH1	1:B:1165:VAL:O	1.62	1.31
1:I:486:PRO:CG	1:I:509:TRP:CH2	2.12	1.31
3:b:292:ALA:HB1	3:b:295:ASP:N	1.41	1.31
4:i:3:ALA:O	4:i:40:TYR:CB	1.76	1.31
4:j:3:ALA:O	4:j:40:TYR:CB	1.76	1.31
4:o:46:THR:HG21	4:o:50:VAL:CG1	1.58	1.31
1:G:1313:ARG:NH1	1:G:1317:CYS:O	1.60	1.31
1:H:300:ALA:HB1	1:H:362:ARG:CD	1.53	1.31
2:Z:223:LEU:HD12	2:Z:271:LEU:CD1	1.60	1.31
4:f:3:ALA:O	4:f:40:TYR:CB	1.76	1.31
4:r:46:THR:HG21	4:r:50:VAL:CG1	1.58	1.31
1:G:75:LEU:HD13	1:G:75:LEU:O	1.25	1.31
1:J:914:PRO:HB2	1:J:919:ASN:CB	1.59	1.31
4:r:104:ARG:O	4:r:106:PRO:HD3	1.19	1.31
1:H:530:GLN:O	1:H:536:ASN:ND2	1.63	1.31
2:Z:223:LEU:CD1	2:Z:271:LEU:HB3	1.60	1.31
1:K:494:PRO:CB	1:K:757:ASP:CB	2.06	1.31
2:W:295:VAL:HG11	2:W:314:VAL:CG1	1.59	1.31
1:A:269:THR:HG22	1:A:300:ALA:CA	1.59	1.30
1:A:1276:PHE:CE1	1:A:1329:GLN:NE2	1.99	1.30
2:R:129:ARG:CD	2:R:136:THR:CG2	2.08	1.30
4:s:3:ALA:O	4:s:40:TYR:CB	1.76	1.30
1:G:1077:GLN:NE2	1:B:146:GLU:O	1.65	1.30
1:G:1166:PHE:CE2	2:Q:281:HIS:CB	2.13	1.30
1:A:1276:PHE:CE1	1:A:1329:GLN:HG3	1.64	1.30

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:69:ARG:CZ	3:Y:42:ALA:HB1	1.59	1.30
1:J:751:HIS:NE2	1:J:754:CYS:HB2	1.45	1.30
1:L:268:ASP:CB	1:L:302:VAL:H	1.44	1.30
2:R:13:PRO:CD	2:R:43:LEU:CD2	2.03	1.30
2:a:97:THR:CG2	2:a:315:ILE:CA	2.06	1.30
1:A:249:VAL:O	1:A:253:THR:HG22	1.15	1.30
1:A:263:ARG:O	1:A:264:LEU:HD12	1.26	1.30
3:b:292:ALA:CB	3:b:295:ASP:CA	2.10	1.30
4:p:3:ALA:O	4:p:40:TYR:CB	1.76	1.30
4:p:6:PHE:CB	4:p:10:SER:CB	2.08	1.30
1:G:295:VAL:CG2	1:G:368:VAL:HA	1.61	1.30
3:S:278:HIS:HB3	3:S:279:PRO:CD	1.62	1.30
3:e:339:LEU:HD23	3:e:422:PHE:CD2	1.67	1.30
1:E:579:ASN:O	1:E:582:LEU:CD1	1.79	1.30
3:V:339:LEU:HD23	3:V:422:PHE:CD2	1.67	1.30
3:e:128:GLY:HA3	3:e:287:THR:O	1.24	1.30
3:S:128:GLY:HA3	3:S:287:THR:O	1.24	1.29
4:l:46:THR:HG21	4:l:50:VAL:CG1	1.58	1.29
1:G:1218:LYS:HD2	1:G:1221:ASP:OD2	1.21	1.29
1:H:1218:LYS:CE	1:I:1173:ARG:NH2	1.94	1.29
1:N:785:HIS:NE2	1:N:795:ALA:O	1.64	1.29
2:c:296:ARG:CD	2:c:318:PRO:C	2.05	1.29
4:p:46:THR:HG21	4:p:50:VAL:CG1	1.58	1.29
1:G:409:PHE:CE2	1:G:415:ARG:CZ	2.14	1.29
1:B:1316:GLY:CA	3:S:260:LEU:HD21	1.61	1.29
1:I:842:MET:CE	4:n:61:LEU:CD1	2.10	1.29
1:I:842:MET:CE	4:n:61:LEU:HD11	1.60	1.29
2:W:296:ARG:CD	2:W:318:PRO:C	2.05	1.29
2:Z:221:LEU:O	2:Z:225:PRO:HD3	1.28	1.29
1:A:530:GLN:CG	1:A:536:ASN:HD21	1.44	1.29
1:J:403:VAL:HA	1:J:1052:VAL:O	1.27	1.29
3:b:32:PRO:O	3:b:36:VAL:HG13	1.26	1.29
3:S:339:LEU:HD23	3:S:422:PHE:CD2	1.67	1.29
4:t:10:SER:N	4:t:17:VAL:CB	1.96	1.29
1:G:77:VAL:CG2	1:G:277:VAL:CG2	2.09	1.28
1:I:529:GLU:CA	1:I:532:MET:HE3	1.61	1.28
1:L:837:ALA:HA	4:q:54:LEU:CD2	1.63	1.28
1:G:426:ALA:N	1:G:429:HIS:CE1	2.01	1.28
1:F:933:LEU:HD21	1:F:958:LEU:CD2	1.61	1.28
1:I:69:ARG:NH1	3:Y:42:ALA:HB1	1.47	1.28
1:J:529:GLU:CA	1:J:532:MET:HE2	1.62	1.28

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:752:ARG:HH11	1:P:913:ALA:CB	1.47	1.28
1:H:443:TRP:CH2	1:H:1347:ARG:HG2	1.67	1.28
3:Y:434:ARG:NH1	3:Y:436:LEU:HD21	1.46	1.28
3:b:190:LEU:CD1	3:b:245:MET:CE	2.10	1.28
1:K:842:MET:HE3	4:p:61:LEU:CD1	1.63	1.28
2:T:296:ARG:CD	2:T:318:PRO:C	2.05	1.28
1:L:1166:PHE:CB	3:Y:140:LEU:CD1	2.11	1.28
4:j:6:PHE:CB	4:j:10:SER:HB3	1.61	1.28
1:G:295:VAL:CG2	1:G:368:VAL:CA	2.10	1.27
1:H:759:GLY:CA	1:H:779:ASN:O	1.80	1.27
4:s:15:ASP:CB	4:s:28:ALA:CB	2.12	1.27
1:G:1300:VAL:CG2	1:G:1323:ASP:OD2	1.79	1.27
1:E:445:LYS:NZ	1:E:1179:HIS:O	1.64	1.27
1:I:579:ASN:O	1:I:582:LEU:HD12	1.23	1.27
1:J:743:MET:CE	1:J:796:ASP:O	1.81	1.27
2:Q:296:ARG:CD	2:Q:318:PRO:C	2.05	1.27
3:V:128:GLY:HA3	3:V:287:THR:O	1.24	1.27
1:G:522:ALA:HA	1:G:524:CYS:SG	1.74	1.27
1:G:1218:LYS:CD	1:G:1221:ASP:HB3	1.65	1.27
1:A:756:ILE:HD11	1:A:906:THR:CG2	1.62	1.27
2:W:268:ARG:CD	2:X:166:ASP:OD1	1.80	1.27
3:e:316:TYR:CD2	3:e:419:TYR:HA	1.69	1.27
1:G:1300:VAL:HG23	1:G:1323:ASP:OD2	1.10	1.27
1:L:889:PRO:HD3	4:q:69:ALA:CB	1.64	1.27
4:o:6:PHE:CB	4:o:10:SER:HB3	1.61	1.27
1:I:834:ARG:O	4:o:94:LEU:CB	1.82	1.27
1:D:1291:ARG:O	1:D:1295:GLU:OE1	1.52	1.26
1:J:738:ASP:HB2	1:J:785:HIS:CE1	1.71	1.26
1:L:203:ARG:NH2	1:L:222:GLU:OE2	1.67	1.26
3:S:143:LEU:HD12	3:S:239:VAL:CG2	1.64	1.26
2:T:108:LEU:HD11	2:T:182:ASN:ND2	0.95	1.26
2:T:177:ASN:OD1	2:T:189:VAL:HG23	1.15	1.26
3:Y:300:LEU:HD11	3:Y:332:SER:CA	1.63	1.26
3:b:197:ALA:C	3:b:324:LEU:HD21	1.59	1.26
1:B:241:ARG:O	1:B:242:GLU:HG2	1.27	1.26
1:B:1316:GLY:HA2	3:S:260:LEU:CD2	1.65	1.26
1:D:768:ALA:CA	1:D:786:ASN:ND2	1.97	1.26
1:K:947:HIS:O	1:K:948:THR:HG23	1.28	1.26
1:O:530:GLN:O	1:O:536:ASN:ND2	1.67	1.26
1:O:759:GLY:HA3	1:O:781:GLY:CA	1.65	1.26
1:P:1218:LYS:HE3	1:P:1221:ASP:OD2	1.35	1.26

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:m:9:PRO:HB3	4:m:18:ARG:O	1.32	1.26
1:I:1225:LEU:HD21	1:I:1234:PRO:CG	1.59	1.26
1:M:530:GLN:O	1:M:536:ASN:ND2	1.66	1.26
1:A:1229:HIS:CD2	1:A:1241:THR:CG2	2.19	1.26
1:N:201:MET:O	1:N:205:LEU:HD13	1.30	1.26
1:O:837:ALA:HA	4:s:54:LEU:CD2	1.65	1.26
3:e:278:HIS:O	3:e:285:ALA:HA	1.10	1.26
1:B:834:ARG:CG	4:i:94:LEU:CB	2.11	1.26
1:D:94:ARG:NH1	1:I:9:PRO:HG2	1.47	1.26
1:L:768:ALA:CA	1:L:786:ASN:ND2	1.97	1.26
1:P:752:ARG:NH1	1:P:913:ALA:CB	1.98	1.26
3:Y:434:ARG:HH12	3:Y:436:LEU:CD2	1.48	1.26
1:F:846:GLU:OE2	4:l:67:THR:OG1	1.54	1.25
1:K:950:GLN:O	1:K:953:GLU:OE1	1.52	1.25
3:V:278:HIS:O	3:V:285:ALA:HA	1.16	1.25
2:X:108:LEU:O	2:X:112:ASP:OD2	1.54	1.25
1:B:252:THR:HG23	1:B:373:ARG:CD	1.67	1.25
1:C:51:ASP:CB	3:S:278:HIS:HB2	1.66	1.25
1:N:1078:LEU:HG	3:V:82:ASP:CG	1.59	1.25
1:P:759:GLY:HA3	1:P:781:GLY:N	1.49	1.25
3:Y:141:PRO:HG3	3:Y:157:LEU:CB	1.64	1.25
3:Y:278:HIS:CB	3:Y:279:PRO:HD3	1.56	1.25
1:G:426:ALA:N	1:G:429:HIS:HE1	1.34	1.25
1:G:1218:LYS:CD	1:G:1221:ASP:CG	2.09	1.25
1:C:248:LEU:CD2	1:C:293:LEU:HD23	1.65	1.25
1:C:1036:LEU:CD1	1:C:1036:LEU:O	1.82	1.25
1:H:1201:ARG:HH11	1:I:448:GLN:NE2	1.22	1.25
1:I:529:GLU:O	1:I:535:ASP:CB	1.84	1.25
1:G:248:LEU:CD2	1:G:293:LEU:CD1	2.14	1.25
1:J:70:PHE:O	1:J:76:SER:CB	1.83	1.25
3:Y:437:HIS:N	3:Y:449:VAL:O	1.69	1.25
1:G:830:VAL:HG13	1:G:954:TYR:O	1.33	1.25
1:A:530:GLN:HG3	1:A:536:ASN:ND2	1.52	1.25
1:L:1218:LYS:NZ	2:d:184:ALA:CB	2.00	1.25
3:V:33:LEU:C	3:V:36:VAL:HG12	1.59	1.25
2:a:108:LEU:O	2:a:112:ASP:OD2	1.54	1.25
1:A:224:LYS:NZ	1:A:1330:GLU:OE2	1.67	1.25
1:F:443:TRP:CH2	1:F:1347:ARG:HG2	1.71	1.25
1:L:83:LYS:CE	1:L:1076:GLY:O	1.82	1.25
3:V:112:ARG:HH12	3:V:262:SER:CB	1.49	1.25
2:d:108:LEU:O	2:d:112:ASP:OD2	1.54	1.25

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:e:112:ARG:HH12	3:e:262:SER:CB	1.49	1.25
4:f:6:PHE:CB	4:f:10:SER:HB3	1.61	1.25
1:E:847:ILE:CG2	4:k:71:ASN:HA	1.66	1.24
1:A:1229:HIS:CD2	1:A:1241:THR:HG23	1.71	1.24
4:q:6:PHE:CB	4:q:10:SER:HB3	1.61	1.24
1:N:1206:ARG:HH11	1:N:1210:ALA:CB	1.50	1.24
2:W:268:ARG:HD2	2:X:166:ASP:OD1	1.14	1.24
1:G:205:LEU:HD12	1:G:206:ASP:OD1	1.38	1.24
1:D:956:TYR:OH	1:D:958:LEU:CD1	1.84	1.24
3:b:242:HIS:CE1	3:b:316:TYR:OH	1.90	1.24
4:n:6:PHE:CB	4:n:10:SER:HB3	1.60	1.24
4:p:24:GLY:O	4:p:28:ALA:HB2	1.32	1.24
1:G:1173:ARG:CB	2:R:185:ARG:CB	2.14	1.23
1:B:917:GLY:O	1:B:1033:PRO:HD2	1.32	1.23
1:P:752:ARG:NH1	1:P:913:ALA:HB2	1.50	1.23
2:U:108:LEU:O	2:U:112:ASP:OD2	1.54	1.23
3:Y:214:ASN:ND2	3:Y:442:PHE:O	1.71	1.23
3:Y:437:HIS:O	3:Y:449:VAL:N	1.70	1.23
4:j:90:PRO:CB	4:j:103:VAL:CB	2.16	1.23
1:A:1218:LYS:CD	1:B:1173:ARG:NH2	2.02	1.23
1:F:1085:THR:HG21	1:F:1090:ASN:CG	1.56	1.23
1:H:1291:ARG:O	1:H:1295:GLU:OE1	1.56	1.23
1:L:790:ARG:HH22	4:q:101:PHE:CB	1.38	1.23
2:c:106:VAL:HG11	2:c:305:VAL:CG1	1.67	1.23
1:G:917:GLY:O	1:G:1138:LEU:HD22	1.33	1.23
3:S:112:ARG:HH12	3:S:262:SER:CB	1.49	1.23
2:W:272:TYR:CD2	2:X:161:ARG:HG3	1.74	1.23
3:Y:112:ARG:HH12	3:Y:262:SER:CB	1.49	1.23
1:A:530:GLN:HA	1:A:536:ASN:ND2	1.49	1.23
1:J:743:MET:HE3	1:J:796:ASP:O	1.10	1.23
1:M:417:ALA:HB2	1:M:1358:PHE:CE1	1.73	1.23
2:W:295:VAL:CG1	2:W:314:VAL:HG12	1.69	1.23
2:X:38:ARG:CZ	3:Y:305:PRO:HG2	1.68	1.23
4:k:24:GLY:O	4:k:28:ALA:HB2	1.32	1.23
1:G:751:HIS:CE1	1:G:754:CYS:HB2	1.74	1.23
1:C:267:ALA:CB	1:C:274:VAL:HB	1.68	1.23
1:F:185:LEU:O	1:F:189:LEU:HD13	1.34	1.23
1:L:834:ARG:HG3	4:f:94:LEU:CB	1.66	1.23
4:m:3:ALA:HA	4:m:38:ASN:O	1.39	1.23
4:o:3:ALA:HA	4:o:38:ASN:O	1.39	1.23
1:G:1166:PHE:CD2	2:Q:281:HIS:CA	2.22	1.22

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:36:PHE:CE1	1:L:120:MET:SD	2.32	1.22
1:H:141:ALA:HA	1:H:146:GLU:OE1	1.05	1.22
1:L:530:GLN:O	1:L:536:ASN:ND2	1.72	1.22
2:R:129:ARG:HD3	2:R:136:THR:CG2	1.63	1.22
3:Y:278:HIS:O	3:Y:285:ALA:HA	1.32	1.22
1:G:832:PHE:HB3	1:G:836:TYR:CE2	1.74	1.22
1:H:729:PRO:O	1:H:745:HIS:CE1	1.91	1.22
1:J:717:GLN:OE1	1:J:915:ASP:OD1	1.57	1.22
1:K:124:ILE:HD11	1:L:58:LEU:CD2	1.56	1.22
1:O:842:MET:HE3	4:s:61:LEU:CD1	1.67	1.22
2:R:108:LEU:O	2:R:112:ASP:OD2	1.54	1.22
3:Y:300:LEU:CD2	3:Y:332:SER:HB2	1.68	1.22
2:a:35:PRO:O	2:a:70:ARG:HB3	1.36	1.22
2:c:295:VAL:CG1	2:c:314:VAL:HG12	1.69	1.22
1:D:445:LYS:CD	1:D:1118:PRO:HB2	1.70	1.22
1:H:141:ALA:CA	1:H:146:GLU:OE1	1.88	1.22
1:J:1342:LEU:HD23	1:J:1354:ARG:CD	1.68	1.22
1:L:768:ALA:CA	1:L:786:ASN:HD22	1.51	1.22
1:O:267:ALA:O	1:O:274:VAL:CG2	1.86	1.22
2:T:295:VAL:CG1	2:T:314:VAL:HG12	1.69	1.22
2:a:37:ILE:HG23	2:a:71:PHE:CB	1.67	1.22
4:g:90:PRO:CB	4:g:103:VAL:CB	2.16	1.22
1:A:534:PRO:HB3	1:B:1154:GLY:CA	1.69	1.22
1:I:486:PRO:HG2	1:I:509:TRP:CZ3	1.75	1.22
3:V:316:TYR:O	3:V:349:ARG:HD3	1.35	1.22
2:a:281:HIS:CE1	3:b:465:CYS:O	1.92	1.22
4:k:3:ALA:HA	4:k:38:ASN:O	1.39	1.22
1:G:263:ARG:HG3	1:G:264:LEU:CD1	1.69	1.22
1:G:323:GLY:CA	1:G:326:VAL:CG1	2.18	1.22
1:A:1218:LYS:CD	1:B:1173:ARG:HH22	1.53	1.22
1:E:847:ILE:HG21	4:k:71:ASN:CA	1.68	1.22
1:N:742:LEU:HD22	1:N:765:TYR:OH	1.39	1.22
1:N:1165:VAL:HG12	3:V:140:LEU:CD1	1.69	1.22
2:X:13:PRO:HG2	2:X:133:LEU:CD1	1.67	1.22
4:r:79:PHE:CB	4:r:88:LEU:HD21	1.66	1.22
1:H:840:GLN:NE2	4:m:58:ALA:HB2	1.54	1.21
3:S:143:LEU:CD1	3:S:239:VAL:CG2	2.18	1.21
2:W:106:VAL:HG11	2:W:305:VAL:CG1	1.70	1.21
4:f:3:ALA:HA	4:f:38:ASN:O	1.39	1.21
4:f:9:PRO:HB3	4:f:18:ARG:O	1.34	1.21
4:p:3:ALA:HA	4:p:38:ASN:O	1.39	1.21

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:p:18:ARG:O	4:p:20:LEU:HD13	1.40	1.21
1:C:108:GLY:O	2:X:40:GLN:NE2	1.72	1.21
1:J:759:GLY:CA	1:J:779:ASN:O	1.87	1.21
1:J:1344:ARG:O	1:J:1347:ARG:HD2	1.41	1.21
1:L:291:SER:CA	1:L:294:LYS:CE	2.07	1.21
1:N:433:ARG:NH2	1:N:1339:ASP:OD2	1.73	1.21
1:N:1078:LEU:HD12	3:V:82:ASP:O	1.06	1.21
2:X:267:ARG:HH12	3:Y:145:ARG:CA	1.53	1.21
4:n:7:HIS:HE1	4:n:44:HIS:NE2	1.39	1.21
1:B:252:THR:CG2	1:B:373:ARG:CD	2.18	1.21
1:H:269:THR:CG2	1:H:298:THR:HG21	1.69	1.21
1:J:670:LEU:O	1:J:674:ILE:HD12	1.38	1.21
1:O:438:ARG:NH2	1:O:598:GLU:OE2	1.74	1.21
3:Y:198:TYR:OH	3:Y:294:VAL:CG1	1.88	1.21
4:q:7:HIS:HE1	4:q:44:HIS:NE2	1.39	1.21
4:r:6:PHE:CB	4:r:10:SER:HB3	1.61	1.21
4:s:15:ASP:CB	4:s:28:ALA:HB1	1.68	1.21
1:G:742:LEU:CD1	1:G:754:CYS:SG	2.29	1.21
1:G:1218:LYS:CD	1:G:1221:ASP:CB	2.18	1.21
1:A:328:SER:OG	1:A:330:ASP:OD1	1.57	1.21
1:D:918:ALA:CB	1:D:1032:SER:HB2	1.68	1.21
1:D:1082:ARG:NH1	1:D:1084:GLU:OE2	1.73	1.21
1:O:840:GLN:NE2	4:s:58:ALA:HB2	1.54	1.21
3:V:140:LEU:HB2	3:V:142:HIS:CE1	1.76	1.21
4:g:7:HIS:HE1	4:g:44:HIS:NE2	1.39	1.21
4:h:3:ALA:CB	4:h:38:ASN:O	1.89	1.21
4:p:3:ALA:CB	4:p:38:ASN:O	1.89	1.21
1:A:269:THR:HA	1:A:300:ALA:CB	1.68	1.21
1:E:17:MET:C	1:H:349:GLU:OE2	1.83	1.21
3:b:292:ALA:CB	3:b:295:ASP:HB2	1.57	1.21
4:g:3:ALA:HA	4:g:38:ASN:O	1.39	1.21
4:m:6:PHE:CB	4:m:10:SER:HB3	1.61	1.21
4:o:7:HIS:HE1	4:o:44:HIS:NE2	1.39	1.21
1:G:1166:PHE:CE1	2:Q:280:ALA:CB	2.24	1.20
1:D:248:LEU:CD2	1:D:293:LEU:HD23	1.69	1.20
1:L:83:LYS:HE3	1:L:1076:GLY:O	1.40	1.20
1:L:463:HIS:ND1	1:L:465:SER:OG	1.72	1.20
1:L:1291:ARG:O	1:L:1295:GLU:OE1	1.56	1.20
1:M:842:MET:HE3	4:f:61:LEU:CD1	1.70	1.20
3:S:300:LEU:CD1	3:S:332:SER:HB2	1.70	1.20
2:W:106:VAL:HG11	2:W:305:VAL:HG13	1.21	1.20

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:k:6:PHE:CB	4:k:10:SER:HB3	1.61	1.20
4:n:70:ASN:CB	4:n:76:GLN:CB	2.19	1.20
4:o:3:ALA:CB	4:o:38:ASN:O	1.89	1.20
4:p:7:HIS:HE1	4:p:44:HIS:NE2	1.39	1.20
4:q:70:ASN:CB	4:q:76:GLN:CB	2.19	1.20
4:t:3:ALA:CB	4:t:38:ASN:O	1.89	1.20
1:F:443:TRP:CH2	1:F:1347:ARG:CG	2.24	1.20
1:F:443:TRP:HH2	1:F:1347:ARG:CG	1.54	1.20
1:J:743:MET:CE	1:J:797:ASP:HA	1.70	1.20
1:J:759:GLY:N	1:J:779:ASN:O	1.74	1.20
1:L:842:MET:HG2	4:q:61:LEU:CD2	1.69	1.20
1:N:203:ARG:HH22	1:N:222:GLU:CD	1.47	1.20
3:V:278:HIS:CB	3:V:279:PRO:HD3	1.65	1.20
3:e:300:LEU:HG	3:e:332:SER:HB2	1.23	1.20
4:h:7:HIS:HE1	4:h:44:HIS:NE2	1.39	1.20
4:i:3:ALA:HA	4:i:38:ASN:O	1.39	1.20
4:i:6:PHE:CB	4:i:10:SER:HB3	1.61	1.20
4:t:70:ASN:CB	4:t:76:GLN:CB	2.20	1.20
1:G:1166:PHE:CZ	2:Q:281:HIS:N	2.07	1.20
1:L:837:ALA:CA	4:q:54:LEU:HD21	1.71	1.20
1:L:842:MET:CG	4:q:61:LEU:HD21	1.72	1.20
1:M:47:ASN:ND2	3:Y:276:THR:CG2	1.92	1.20
1:N:1086:GLY:CA	2:T:99:ASN:HD21	1.55	1.20
2:Z:295:VAL:CG1	2:Z:314:VAL:HG12	1.71	1.20
4:g:6:PHE:CB	4:g:10:SER:HB3	1.61	1.20
4:g:70:ASN:CB	4:g:76:GLN:CB	2.19	1.20
4:l:70:ASN:CB	4:l:76:GLN:CB	2.19	1.20
4:n:3:ALA:CB	4:n:38:ASN:O	1.89	1.20
4:r:3:ALA:CB	4:r:38:ASN:O	1.89	1.20
4:s:3:ALA:CB	4:s:38:ASN:O	1.89	1.20
4:t:3:ALA:HA	4:t:38:ASN:O	1.39	1.20
1:A:530:GLN:CA	1:A:536:ASN:HD22	1.54	1.20
1:B:1080:VAL:HG13	1:B:1092:THR:O	1.41	1.20
1:C:804:ASP:OD1	1:C:808:HIS:CE1	1.95	1.20
1:H:956:TYR:HE1	1:H:958:LEU:CG	1.51	1.20
1:J:722:LEU:HD23	1:J:915:ASP:OD2	1.38	1.20
1:J:750:ARG:O	1:J:912:ALA:CB	1.88	1.20
1:J:918:ALA:HB2	1:J:1032:SER:CB	1.69	1.20
1:O:77:VAL:HB	1:O:266:HIS:CE1	1.77	1.20
2:Q:106:VAL:HG11	2:Q:305:VAL:HG13	1.20	1.20
2:T:106:VAL:HG11	2:T:305:VAL:CG1	1.70	1.20

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Y:133:ALA:O	3:Y:245:MET:HA	1.41	1.20
2:Z:106:VAL:HG11	2:Z:305:VAL:CG1	1.70	1.20
2:Z:217:THR:O	2:Z:221:LEU:HD23	1.39	1.20
3:e:278:HIS:HB3	3:e:279:PRO:CD	1.68	1.20
4:f:3:ALA:CB	4:f:38:ASN:O	1.89	1.20
4:k:70:ASN:CB	4:k:76:GLN:CB	2.19	1.20
4:m:3:ALA:CB	4:m:38:ASN:O	1.89	1.20
4:p:70:ASN:CB	4:p:76:GLN:CB	2.19	1.20
4:q:3:ALA:CB	4:q:38:ASN:O	1.89	1.20
1:G:77:VAL:CG2	1:G:277:VAL:HG22	1.69	1.20
1:G:1218:LYS:HD2	1:G:1221:ASP:CB	1.71	1.20
1:A:530:GLN:CA	1:A:536:ASN:ND2	2.04	1.20
1:K:1274:PHE:O	1:K:1278:THR:CG2	1.90	1.20
2:Q:295:VAL:CG1	2:Q:314:VAL:HG12	1.69	1.20
3:S:278:HIS:CB	3:S:279:PRO:HD3	1.63	1.20
3:Y:198:TYR:OH	3:Y:294:VAL:HG11	1.40	1.20
3:b:190:LEU:HD11	3:b:245:MET:CE	1.68	1.20
4:l:3:ALA:CB	4:l:38:ASN:O	1.89	1.20
4:m:70:ASN:CB	4:m:76:GLN:CB	2.19	1.20
4:r:3:ALA:HA	4:r:38:ASN:O	1.39	1.20
4:s:70:ASN:CB	4:s:76:GLN:CB	2.19	1.20
1:G:321:VAL:C	1:G:322:MET:HE2	1.67	1.19
1:H:842:MET:SD	4:m:61:LEU:HD22	1.80	1.19
1:J:304:VAL:HG21	1:J:358:PRO:CG	1.71	1.19
1:P:759:GLY:CA	1:P:780:ASP:C	2.14	1.19
1:P:841:ASN:ND2	1:P:874:THR:HA	1.55	1.19
2:Q:178:VAL:HG11	2:Q:180:TYR:CE1	1.77	1.19
4:j:3:ALA:CB	4:j:38:ASN:O	1.89	1.19
1:A:136:ALA:O	1:A:138:GLU:O	1.58	1.19
1:J:452:LEU:HD23	1:J:456:ASN:ND2	1.57	1.19
1:N:837:ALA:CA	4:r:54:LEU:HD21	1.72	1.19
1:N:1057:ARG:HH12	1:N:1321:VAL:CG2	1.55	1.19
2:Q:178:VAL:CG1	2:Q:180:TYR:CE1	2.24	1.19
2:R:145:THR:HG21	2:R:293:PRO:HG2	1.20	1.19
2:Z:223:LEU:CD1	2:Z:271:LEU:HD13	1.72	1.19
4:l:3:ALA:HA	4:l:38:ASN:O	1.39	1.19
4:l:7:HIS:HE1	4:l:44:HIS:NE2	1.39	1.19
4:l:90:PRO:CB	4:l:103:VAL:CB	2.21	1.19
4:n:3:ALA:HA	4:n:38:ASN:O	1.39	1.19
1:J:575:TRP:CZ2	1:J:918:ALA:CB	2.24	1.19
1:L:1277:PHE:O	1:L:1278:THR:OG1	1.58	1.19

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:837:ALA:HA	4:t:54:LEU:CD2	1.72	1.19
2:Q:106:VAL:HG11	2:Q:305:VAL:CG1	1.70	1.19
2:a:37:ILE:CG2	2:a:71:PHE:HB2	1.71	1.19
4:h:70:ASN:CB	4:h:76:GLN:CB	2.19	1.19
4:i:70:ASN:CB	4:i:76:GLN:CB	2.19	1.19
4:j:70:ASN:CB	4:j:76:GLN:CB	2.19	1.19
4:k:7:HIS:HE1	4:k:44:HIS:NE2	1.39	1.19
4:s:17:VAL:N	4:s:20:LEU:HD12	1.55	1.19
1:G:1166:PHE:CE2	2:Q:281:HIS:CA	2.24	1.19
1:A:113:GLU:O	1:B:132:ALA:HB3	1.39	1.19
1:B:1316:GLY:HA2	3:S:260:LEU:HD11	1.21	1.19
1:I:842:MET:HE3	4:n:61:LEU:CD2	1.73	1.19
1:K:758:ALA:O	1:K:779:ASN:CB	1.91	1.19
1:K:759:GLY:HA2	1:K:779:ASN:O	1.40	1.19
1:K:1317:CYS:SG	1:P:110:HIS:HD2	1.66	1.19
1:L:1222:VAL:O	1:L:1223:ILE:HG12	1.37	1.19
3:V:133:ALA:O	3:V:245:MET:HA	1.41	1.19
4:f:70:ASN:CB	4:f:76:GLN:CB	2.19	1.19
4:j:7:HIS:HE1	4:j:44:HIS:NE2	1.39	1.19
4:m:7:HIS:HE1	4:m:44:HIS:NE2	1.39	1.19
4:r:7:HIS:HE1	4:r:44:HIS:NE2	1.39	1.19
1:G:368:VAL:HG23	1:G:375:VAL:CG1	1.73	1.19
1:G:1166:PHE:CZ	2:Q:280:ALA:CB	2.25	1.19
1:B:956:TYR:CD1	1:B:958:LEU:HG	1.75	1.19
1:I:124:ILE:HD13	1:I:1100:VAL:CG2	1.71	1.19
1:N:840:GLN:NE2	4:r:58:ALA:HB2	1.56	1.19
3:V:161:TRP:CH2	3:V:165:LEU:HD12	1.75	1.19
2:a:35:PRO:CA	2:a:70:ARG:HH11	1.56	1.19
4:g:3:ALA:CB	4:g:38:ASN:O	1.89	1.19
4:h:3:ALA:HA	4:h:38:ASN:O	1.39	1.19
4:k:3:ALA:CB	4:k:38:ASN:O	1.89	1.19
4:r:70:ASN:CB	4:r:76:GLN:CB	2.19	1.19
4:s:7:HIS:HE1	4:s:44:HIS:NE2	1.39	1.19
1:A:357:ALA:C	1:A:359:GLN:HE22	1.51	1.18
1:D:94:ARG:NH1	1:I:9:PRO:CG	2.04	1.18
1:F:269:THR:HG21	1:F:367:LEU:HD12	1.25	1.18
1:F:1085:THR:HG22	1:F:1090:ASN:ND2	1.45	1.18
1:I:837:ALA:HB2	4:n:54:LEU:CD2	1.74	1.18
3:Y:141:PRO:HG2	3:Y:158:ALA:N	1.56	1.18
3:b:133:ALA:O	3:b:245:MET:HA	1.41	1.18
4:h:6:PHE:CB	4:h:10:SER:HB3	1.61	1.18

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:m:9:PRO:CB	4:m:18:ARG:O	1.89	1.18
1:C:419:HIS:CD2	1:D:421:GLY:O	1.96	1.18
1:K:559:PRO:CB	1:K:755:ARG:CZ	2.09	1.18
1:M:837:ALA:HA	4:f:54:LEU:HD21	1.22	1.18
1:N:758:ALA:CB	1:N:904:ARG:NH2	2.02	1.18
4:i:3:ALA:CB	4:i:38:ASN:O	1.89	1.18
4:t:7:HIS:HE1	4:t:44:HIS:NE2	1.39	1.18
1:M:51:ASP:CB	3:Y:278:HIS:HB2	1.74	1.18
1:N:201:MET:O	1:N:205:LEU:CD1	1.90	1.18
1:P:224:LYS:NZ	1:P:1330:GLU:OE2	1.77	1.18
1:P:889:PRO:HD3	4:t:69:ALA:HB1	1.23	1.18
4:o:70:ASN:CB	4:o:76:GLN:CB	2.19	1.18
1:G:740:ASP:OD1	1:G:799:PRO:HB3	1.37	1.18
1:C:267:ALA:HB1	1:C:274:VAL:CB	1.73	1.18
1:C:1119:VAL:CG1	1:C:1119:VAL:O	1.92	1.18
1:H:272:ARG:HD3	1:H:374:LEU:HD11	1.25	1.18
1:M:766:ALA:CB	1:M:784:LEU:CD2	2.22	1.18
1:N:1078:LEU:CD1	3:V:82:ASP:O	1.92	1.18
1:G:741:GLY:O	1:G:745:HIS:CD2	1.95	1.18
1:D:77:VAL:HB	1:D:266:HIS:CE1	1.77	1.18
1:D:248:LEU:HD21	1:D:293:LEU:CD2	1.74	1.18
1:F:1059:VAL:O	1:F:1115:VAL:O	1.60	1.18
1:I:534:PRO:HB3	1:J:1154:GLY:CA	1.72	1.18
1:P:752:ARG:CZ	1:P:913:ALA:HB2	1.73	1.18
3:V:39:PRO:CB	3:V:41:ILE:CD1	2.21	1.18
2:c:272:TYR:CE2	2:d:161:ARG:HG3	1.77	1.18
4:g:24:GLY:O	4:g:28:ALA:HB2	1.32	1.18
1:G:494:PRO:HB2	1:G:757:ASP:CB	1.74	1.17
1:E:889:PRO:HD3	4:k:69:ALA:CB	1.74	1.17
1:H:280:THR:HG23	1:H:1063:VAL:HG12	1.25	1.17
1:I:525:GLN:HE22	1:I:536:ASN:CA	1.55	1.17
1:I:842:MET:HE3	4:n:61:LEU:CD1	1.68	1.17
1:K:559:PRO:CG	1:K:755:ARG:NH2	2.07	1.17
2:Q:105:PRO:HG3	2:Q:186:LEU:CD1	1.74	1.17
3:e:112:ARG:NH1	3:e:262:SER:CB	2.04	1.17
4:s:3:ALA:HA	4:s:38:ASN:O	1.39	1.17
1:G:1218:LYS:CD	1:G:1221:ASP:OD2	1.93	1.17
1:J:446:ASP:OD2	1:J:1179:HIS:ND1	1.76	1.17
3:S:112:ARG:NH1	3:S:262:SER:CB	2.04	1.17
2:U:145:THR:HG21	2:U:293:PRO:HG2	1.20	1.17
3:Y:112:ARG:NH1	3:Y:262:SER:CB	2.04	1.17

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:i:7:HIS:HE1	4:i:44:HIS:NE2	1.39	1.17
1:B:956:TYR:CE1	1:B:958:LEU:HD11	1.76	1.17
1:H:1218:LYS:HE2	1:I:1173:ARG:CZ	1.54	1.17
1:O:1225:LEU:HD11	1:O:1234:PRO:HG3	1.18	1.17
3:Y:436:LEU:CD2	3:Y:450:VAL:CG2	2.22	1.17
4:f:7:HIS:HE1	4:f:44:HIS:NE2	1.39	1.17
1:L:269:THR:HG22	1:L:298:THR:HB	1.17	1.17
4:t:6:PHE:CB	4:t:10:SER:HB2	1.75	1.17
1:G:210:LEU:HD22	1:G:212:THR:CG2	1.73	1.17
1:J:279:VAL:HG22	1:J:1064:LEU:O	0.99	1.17
1:J:1278:THR:O	1:J:1282:ILE:HD12	1.44	1.17
1:N:738:ASP:HB3	1:N:787:THR:CG2	1.75	1.17
1:P:293:LEU:O	1:P:293:LEU:HD12	1.45	1.17
1:P:439:GLN:HE21	1:P:451:ARG:CZ	1.57	1.17
2:T:92:LEU:HD11	2:T:95:ALA:CB	1.75	1.17
4:j:3:ALA:HA	4:j:38:ASN:O	1.39	1.17
4:m:24:GLY:O	4:m:28:ALA:HB2	1.32	1.17
1:C:532:MET:C	1:C:534:PRO:HD2	1.70	1.16
1:J:70:PHE:O	1:J:76:SER:HB3	1.02	1.16
1:K:1218:LYS:CE	1:L:1173:ARG:HH21	1.48	1.16
1:P:1218:LYS:HG2	1:P:1221:ASP:OD2	1.42	1.16
3:Y:33:LEU:O	3:Y:36:VAL:HG22	1.43	1.16
1:G:248:LEU:HD21	1:G:293:LEU:CD1	1.72	1.16
1:E:840:GLN:HE22	4:k:58:ALA:CB	1.57	1.16
1:M:766:ALA:CB	1:M:784:LEU:HD22	1.74	1.16
1:M:840:GLN:HE22	4:f:58:ALA:CB	1.57	1.16
1:M:842:MET:HG2	4:f:61:LEU:HD21	1.24	1.16
1:M:1237:PRO:HB2	1:N:1156:ARG:NH2	1.60	1.16
4:h:10:SER:O	4:h:11:THR:CB	1.93	1.16
4:q:3:ALA:HA	4:q:38:ASN:O	1.39	1.16
1:G:1300:VAL:H	1:G:1323:ASP:CG	1.54	1.16
1:A:289:LEU:HD21	1:A:377:LEU:CD2	1.75	1.16
1:I:837:ALA:CA	4:n:54:LEU:HD21	1.76	1.16
3:S:133:ALA:O	3:S:245:MET:HA	1.43	1.16
2:X:13:PRO:HD3	2:X:43:LEU:HD22	1.24	1.16
2:Z:92:LEU:HD11	2:Z:95:ALA:CB	1.75	1.16
2:Z:298:CYS:SG	3:b:109:HIS:CD2	2.38	1.16
3:b:279:PRO:HB3	3:b:283:CYS:C	1.70	1.16
3:b:292:ALA:CB	3:b:295:ASP:CG	2.19	1.16
4:i:10:SER:O	4:i:11:THR:CB	1.93	1.16
4:m:10:SER:O	4:m:11:THR:CB	1.93	1.16

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:n:24:GLY:O	4:n:28:ALA:HB2	1.32	1.16
4:q:10:SER:O	4:q:11:THR:CB	1.93	1.16
1:A:357:ALA:O	1:A:359:GLN:OE1	1.62	1.16
1:J:279:VAL:CG2	1:J:1064:LEU:O	1.92	1.16
1:J:437:PRO:HB3	1:J:1360:GLN:CD	1.69	1.16
1:J:944:HIS:CE1	1:J:951:ASN:ND2	2.14	1.16
1:N:201:MET:HG3	1:N:205:LEU:HD11	1.26	1.16
3:V:108:TYR:OH	3:V:110:LEU:HD11	1.46	1.16
4:k:10:SER:O	4:k:11:THR:CB	1.92	1.16
1:A:1198:TYR:O	1:A:1203:CYS:SG	2.02	1.16
1:B:817:VAL:O	1:B:821:SER:OG	1.62	1.16
1:C:834:ARG:HG3	4:j:94:LEU:CB	1.76	1.16
1:D:277:VAL:O	1:D:376:PHE:O	1.62	1.16
1:J:1342:LEU:HD22	1:J:1354:ARG:HG2	1.17	1.16
1:P:840:GLN:HE22	4:t:58:ALA:HB2	1.06	1.16
2:W:92:LEU:HD11	2:W:95:ALA:CB	1.75	1.16
3:Y:278:HIS:HB3	3:Y:279:PRO:CD	1.75	1.16
3:b:296:LEU:CD2	3:b:450:VAL:HG22	1.70	1.16
3:b:435:CYS:HB3	3:b:437:HIS:NE2	1.57	1.16
1:E:30:ALA:O	1:E:33:ARG:N	1.78	1.15
1:H:301:ASP:C	1:H:303:PRO:HD2	1.68	1.15
1:I:534:PRO:CB	1:J:1154:GLY:HA3	1.73	1.15
1:J:399:ASP:O	1:J:400:LEU:HD12	1.43	1.15
1:J:944:HIS:HE1	1:J:951:ASN:ND2	1.44	1.15
1:K:1317:CYS:SG	1:P:110:HIS:CD2	2.40	1.15
1:O:439:GLN:NE2	1:O:451:ARG:NH2	1.94	1.15
3:Y:108:TYR:OH	3:Y:110:LEU:HD11	1.46	1.15
3:Y:436:LEU:CD2	3:Y:450:VAL:HG21	1.76	1.15
3:b:353:THR:OG1	3:b:416:THR:HG23	1.38	1.15
3:e:108:TYR:OH	3:e:110:LEU:HD11	1.46	1.15
4:o:10:SER:O	4:o:11:THR:CB	1.92	1.15
1:G:153:ILE:HG22	1:G:157:ARG:CD	1.77	1.15
1:A:1067:GLU:HG2	1:A:1107:THR:HG23	1.23	1.15
1:I:837:ALA:CB	4:n:54:LEU:CD2	2.21	1.15
1:K:559:PRO:CB	1:K:755:ARG:NH2	1.94	1.15
1:P:439:GLN:NE2	1:P:451:ARG:CZ	2.07	1.15
2:Z:178:VAL:HG11	2:Z:180:TYR:CZ	1.80	1.15
2:Z:293:PRO:HG2	2:Z:318:PRO:HB3	1.23	1.15
4:l:6:PHE:CB	4:l:10:SER:HB3	1.61	1.15
4:o:24:GLY:O	4:o:28:ALA:HB2	1.32	1.15
1:B:1316:GLY:HA2	3:S:260:LEU:CG	1.75	1.15

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:837:ALA:HA	4:j:54:LEU:CD2	1.76	1.15
1:D:1229:HIS:CD2	1:D:1241:THR:HG23	1.80	1.15
1:J:272:ARG:HD3	1:J:374:LEU:HD22	1.26	1.15
1:L:74:GLY:HA3	1:L:378:GLU:OE2	1.42	1.15
1:L:1218:LYS:HZ1	2:d:184:ALA:CB	1.53	1.15
1:P:149:ASP:O	1:P:154:SER:OG	1.65	1.15
2:Q:92:LEU:HD11	2:Q:95:ALA:CB	1.75	1.15
2:Q:105:PRO:CG	2:Q:186:LEU:HD11	1.75	1.15
2:Z:106:VAL:HG11	2:Z:305:VAL:HG13	1.21	1.15
4:j:24:GLY:O	4:j:28:ALA:HB2	1.32	1.15
1:G:323:GLY:HA2	1:G:326:VAL:CG1	1.74	1.15
1:G:532:MET:CE	1:G:534:PRO:HG2	1.77	1.15
1:C:248:LEU:CD2	1:C:293:LEU:CD2	2.24	1.15
1:D:1236:ARG:HH22	1:D:1242:ALA:HB2	1.05	1.15
1:H:759:GLY:HA3	1:H:779:ASN:O	1.41	1.15
1:L:840:GLN:NE2	4:q:58:ALA:HB2	1.59	1.15
1:O:553:VAL:HG23	1:O:556:VAL:CG2	1.75	1.15
1:P:151:THR:HG23	1:P:154:SER:H	1.07	1.15
3:V:112:ARG:NH1	3:V:262:SER:CB	2.04	1.15
2:c:92:LEU:HD11	2:c:95:ALA:CB	1.75	1.15
3:e:278:HIS:CB	3:e:279:PRO:HD3	1.70	1.15
4:s:24:GLY:O	4:s:28:ALA:HB2	1.32	1.15
1:A:837:ALA:HA	4:g:54:LEU:HD21	1.27	1.15
1:C:467:MET:HE2	1:C:1033:PRO:HD3	1.17	1.15
1:F:269:THR:HG23	1:F:367:LEU:CD1	1.76	1.15
2:Q:106:VAL:CG1	2:Q:305:VAL:HG13	1.76	1.15
3:S:134:LEU:HD13	3:S:245:MET:HG3	1.20	1.15
2:X:13:PRO:HG2	2:X:133:LEU:HD12	1.15	1.15
2:X:38:ARG:NE	3:Y:305:PRO:O	1.78	1.15
3:e:133:ALA:O	3:e:245:MET:HA	1.41	1.15
1:G:510:ARG:HD2	1:G:977:PRO:CG	1.77	1.14
1:F:277:VAL:O	1:F:376:PHE:O	1.63	1.14
1:H:300:ALA:HB2	1:H:362:ARG:CD	1.68	1.14
1:H:417:ALA:HB2	1:H:1358:PHE:CE1	1.82	1.14
2:X:145:THR:HG21	2:X:293:PRO:HG2	1.20	1.14
1:G:1316:GLY:O	2:R:304:ALA:HB1	1.47	1.14
1:C:1036:LEU:O	1:C:1036:LEU:HD13	0.98	1.14
1:E:530:GLN:O	1:E:536:ASN:ND2	1.79	1.14
1:F:889:PRO:HD3	4:l:69:ALA:HB1	1.25	1.14
1:I:530:GLN:HG3	1:I:536:ASN:ND2	1.63	1.14
1:K:183:GLN:NE2	1:K:1073:TYR:OH	1.78	1.14

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:512:ARG:NH2	1:P:564:PRO:HG2	1.61	1.14
2:R:129:ARG:HD2	2:R:136:THR:HG22	1.25	1.14
2:W:106:VAL:CG1	2:W:305:VAL:HG13	1.76	1.14
2:a:97:THR:HG23	2:a:315:ILE:HG22	1.14	1.14
3:e:300:LEU:CD1	3:e:333:GLN:OE1	1.95	1.14
4:g:16:ASN:CB	4:g:20:LEU:CD2	2.26	1.14
4:k:3:ALA:CA	4:k:38:ASN:O	1.96	1.14
4:p:6:PHE:CB	4:p:10:SER:HB3	1.73	1.14
1:H:956:TYR:HE1	1:H:958:LEU:CD1	1.60	1.14
1:J:399:ASP:C	1:J:400:LEU:HD12	1.73	1.14
1:O:837:ALA:CA	4:s:54:LEU:HD21	1.76	1.14
4:f:3:ALA:CA	4:f:38:ASN:O	1.96	1.14
4:l:24:GLY:O	4:l:28:ALA:HB2	1.32	1.14
4:n:3:ALA:CA	4:n:38:ASN:O	1.96	1.14
4:s:3:ALA:CA	4:s:38:ASN:O	1.96	1.14
4:t:8:ARG:CB	4:t:18:ARG:CB	2.24	1.14
1:G:1118:PRO:HG3	1:G:1374:LEU:HD22	1.21	1.14
1:A:90:MET:SD	1:B:31:SER:HB2	1.88	1.14
1:A:269:THR:N	1:A:300:ALA:CB	2.11	1.14
1:C:120:MET:SD	1:M:36:PHE:CZ	2.39	1.14
1:J:400:LEU:HD23	1:J:1368:PRO:HD2	1.14	1.14
1:J:840:GLN:HE22	4:o:58:ALA:CB	1.60	1.14
1:K:1291:ARG:O	1:K:1295:GLU:OE1	1.66	1.14
1:N:1086:GLY:CA	2:T:99:ASN:ND2	2.10	1.14
2:X:267:ARG:HH12	3:Y:145:ARG:CB	1.59	1.14
2:Z:106:VAL:CG1	2:Z:305:VAL:HG13	1.76	1.14
4:j:3:ALA:CA	4:j:38:ASN:O	1.96	1.14
4:t:3:ALA:CA	4:t:38:ASN:O	1.96	1.14
1:E:837:ALA:HA	4:k:54:LEU:CD2	1.78	1.14
1:J:407:GLY:HA3	1:J:454:MET:CE	1.78	1.14
1:L:1278:THR:O	1:L:1282:ILE:HD12	1.48	1.14
2:Q:227:LEU:HD13	2:Q:228:LEU:HD12	1.14	1.14
2:T:106:VAL:CG1	2:T:305:VAL:HG13	1.76	1.14
2:c:92:LEU:HD11	2:c:95:ALA:HB2	1.29	1.14
3:e:300:LEU:CD1	3:e:333:GLN:H	1.60	1.14
3:e:418:THR:O	3:e:419:TYR:HB3	1.47	1.14
4:p:3:ALA:CA	4:p:38:ASN:O	1.96	1.14
4:q:3:ALA:CA	4:q:38:ASN:O	1.96	1.14
1:G:1165:VAL:HG21	2:R:240:LEU:O	1.45	1.13
1:A:1072:ALA:HB3	1:A:1100:VAL:HG12	1.30	1.13
1:D:41:ARG:HG2	1:L:118:ASN:OD1	1.44	1.13

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:834:ARG:CG	4:t:94:LEU:CB	2.25	1.13
3:S:164:LEU:HB2	3:S:230:CYS:SG	1.88	1.13
3:S:287:THR:C	3:S:289:PRO:HD2	1.73	1.13
2:T:106:VAL:HG11	2:T:305:VAL:HG13	1.20	1.13
4:q:24:GLY:O	4:q:28:ALA:HB2	1.32	1.13
1:B:1316:GLY:N	3:S:260:LEU:HD21	1.62	1.13
1:D:842:MET:HE3	4:j:61:LEU:HD11	1.29	1.13
1:E:956:TYR:CE1	1:E:958:LEU:HG	1.84	1.13
1:I:266:HIS:CD2	1:I:303:PRO:HB3	1.82	1.13
1:J:842:MET:HE3	4:o:61:LEU:CD1	1.77	1.13
1:N:889:PRO:HD3	4:r:69:ALA:HB1	1.22	1.13
1:O:267:ALA:O	1:O:274:VAL:HG23	0.98	1.13
3:S:300:LEU:CD2	3:S:332:SER:HB3	1.77	1.13
3:S:417:CYS:O	3:S:418:THR:HG22	0.98	1.13
4:o:3:ALA:CA	4:o:38:ASN:O	1.96	1.13
1:G:499:ALA:HB1	1:G:831:ARG:NH1	1.62	1.13
1:B:1316:GLY:CA	3:S:260:LEU:CD2	2.20	1.13
1:H:300:ALA:HB2	1:H:362:ARG:HD2	1.22	1.13
1:I:302:VAL:HG22	1:I:362:ARG:HD2	1.28	1.13
1:O:51:ASP:CB	3:V:278:HIS:HB2	1.78	1.13
1:P:756:ILE:HD11	1:P:906:THR:HG22	1.17	1.13
3:V:417:CYS:O	3:V:418:THR:HG22	0.98	1.13
2:W:295:VAL:CG1	2:W:314:VAL:CG1	2.25	1.13
3:Y:287:THR:C	3:Y:289:PRO:HD2	1.73	1.13
2:d:145:THR:HG21	2:d:293:PRO:HG2	1.20	1.13
4:l:3:ALA:CA	4:l:38:ASN:O	1.96	1.13
1:G:510:ARG:HD2	1:G:977:PRO:HG2	1.14	1.13
1:A:889:PRO:HD3	4:g:69:ALA:HB1	1.19	1.13
1:N:1206:ARG:NH1	1:N:1210:ALA:HB2	1.61	1.13
1:P:488:GLY:N	1:P:520:TRP:HH2	1.44	1.13
1:P:834:ARG:HG3	4:p:94:LEU:CB	1.79	1.13
2:Q:295:VAL:CG1	2:Q:314:VAL:CG1	2.25	1.13
2:a:161:ARG:HD2	2:a:173:LEU:HB3	1.30	1.13
3:b:352:ILE:CB	3:b:416:THR:CA	2.27	1.13
2:c:227:LEU:HD13	2:c:228:LEU:HD12	1.14	1.13
4:r:10:SER:O	4:r:11:THR:CB	1.93	1.13
1:G:467:MET:CE	1:G:1033:PRO:CD	2.26	1.13
1:B:956:TYR:CZ	1:B:958:LEU:HD11	1.82	1.12
1:H:842:MET:CG	4:m:61:LEU:HD21	1.78	1.12
1:I:842:MET:HE1	4:n:61:LEU:CD1	1.79	1.12
1:O:752:ARG:HG3	1:O:927:ARG:HD2	1.21	1.13

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:V:81:ASP:O	3:V:85:GLN:HG3	1.47	1.13
4:f:9:PRO:CB	4:f:18:ARG:O	1.95	1.12
4:l:10:SER:O	4:l:11:THR:CB	1.93	1.12
4:t:24:GLY:O	4:t:28:ALA:HB2	1.32	1.13
4:t:87:TRP:O	4:t:88:LEU:HD12	1.46	1.13
1:J:433:ARG:O	1:J:1358:PHE:HB2	1.46	1.12
1:J:750:ARG:O	1:J:912:ALA:HB1	1.42	1.12
1:K:666:ASN:CB	1:K:940:MET:CE	2.27	1.12
1:O:867:PRO:HB3	4:t:80:ALA:HB3	1.27	1.12
2:Q:178:VAL:HG11	2:Q:180:TYR:HE1	1.07	1.12
3:b:189:PHE:CA	3:b:211:ILE:HD11	1.69	1.12
1:A:269:THR:CA	1:A:300:ALA:CB	2.27	1.12
1:H:300:ALA:CB	1:H:362:ARG:HD2	1.73	1.12
1:K:559:PRO:HG2	1:K:755:ARG:NH2	1.60	1.12
1:M:553:VAL:HG21	1:M:556:VAL:HG11	1.29	1.12
1:O:1165:VAL:HG13	2:a:196:ALA:CB	1.79	1.12
2:a:145:THR:HG21	2:a:293:PRO:HG2	1.20	1.12
3:e:287:THR:C	3:e:289:PRO:HD2	1.73	1.12
4:k:7:HIS:HE1	4:k:44:HIS:CE1	1.45	1.12
4:n:10:SER:O	4:n:11:THR:CB	1.92	1.12
4:r:3:ALA:CA	4:r:38:ASN:O	1.96	1.12
4:r:79:PHE:CB	4:r:88:LEU:HD23	1.72	1.12
1:G:153:ILE:CG2	1:G:157:ARG:HD3	1.79	1.12
1:G:505:PHE:CE1	1:G:509:TRP:NE1	2.18	1.12
1:A:109:PRO:CD	3:S:255:VAL:HG11	1.78	1.12
1:B:1317:CYS:N	3:S:260:LEU:HD11	1.64	1.12
1:B:1317:CYS:H	3:S:260:LEU:CD1	1.60	1.12
1:D:867:PRO:HB3	4:k:80:ALA:HB3	1.27	1.12
1:D:1236:ARG:HH22	1:D:1242:ALA:CB	1.62	1.12
1:E:277:VAL:O	1:E:376:PHE:O	1.65	1.12
1:F:837:ALA:HB1	4:g:94:LEU:O	1.49	1.12
1:J:304:VAL:CG2	1:J:358:PRO:CG	2.28	1.12
1:O:527:THR:OG1	1:O:585:ALA:O	1.67	1.12
1:P:840:GLN:NE2	4:t:58:ALA:HB2	1.62	1.12
4:h:24:GLY:O	4:h:28:ALA:HB2	1.32	1.12
1:A:321:VAL:CG1	1:A:326:VAL:HB	1.80	1.12
1:D:134:SER:HB3	1:M:44:SER:HB2	1.30	1.12
1:E:842:MET:CE	4:k:61:LEU:CD1	2.27	1.12
1:F:582:LEU:CD1	1:F:587:CYS:HB2	1.78	1.12
1:H:1233:ASP:HB3	1:H:1236:ARG:O	1.46	1.12
1:K:840:GLN:CD	4:p:58:ALA:HB2	1.75	1.12

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:530:GLN:HG3	1:M:536:ASN:HD21	1.03	1.12
1:P:433:ARG:NH2	1:P:1339:ASP:OD1	1.82	1.12
1:P:867:PRO:HB3	4:p:80:ALA:HB3	1.27	1.12
3:S:108:TYR:OH	3:S:110:LEU:HD11	1.46	1.12
3:V:339:LEU:CD2	3:V:422:PHE:CD2	2.33	1.12
2:X:267:ARG:NH1	3:Y:145:ARG:CB	2.12	1.12
2:Z:92:LEU:HD11	2:Z:95:ALA:HB2	1.29	1.12
4:o:9:PRO:HA	4:o:17:VAL:CB	1.80	1.12
1:G:205:LEU:CD1	1:G:206:ASP:OD1	1.96	1.12
1:G:295:VAL:HG22	1:G:369:ALA:N	1.61	1.12
1:G:467:MET:HE3	1:G:1033:PRO:HD3	1.25	1.12
1:D:1265:GLY:O	2:X:54:GLY:HA3	1.46	1.12
1:I:1218:LYS:CD	1:J:1173:ARG:NH2	2.13	1.12
1:J:837:ALA:HA	4:o:54:LEU:HD21	1.15	1.12
1:L:476:VAL:HG11	1:L:571:ILE:CD1	1.78	1.12
1:P:148:LEU:CD2	1:P:154:SER:O	1.96	1.12
3:V:287:THR:C	3:V:289:PRO:HD2	1.73	1.12
2:W:272:TYR:CE2	2:X:161:ARG:CG	2.33	1.12
3:b:159:GLU:O	3:b:163:GLN:NE2	1.80	1.12
4:g:3:ALA:CA	4:g:38:ASN:O	1.96	1.12
4:j:10:SER:O	4:j:11:THR:CB	1.93	1.12
4:r:24:GLY:O	4:r:28:ALA:HB2	1.32	1.12
1:C:96:GLN:O	1:C:120:MET:O	1.68	1.11
1:C:248:LEU:HD21	1:C:293:LEU:HD23	1.23	1.11
1:C:533:GLN:N	1:C:534:PRO:HD2	1.64	1.11
1:H:842:MET:SD	4:m:61:LEU:CD2	2.38	1.11
1:I:267:ALA:HB1	1:I:274:VAL:H	1.02	1.11
1:I:947:HIS:CG	1:J:638:GLU:OE2	2.03	1.11
1:J:842:MET:HE3	4:o:61:LEU:HD11	1.14	1.11
1:J:1134:GLY:HA3	1:J:1263:LEU:HA	1.24	1.11
1:M:69:ARG:HH12	3:e:41:ILE:C	1.58	1.11
1:N:785:HIS:CE1	1:N:795:ALA:O	2.02	1.11
2:U:38:ARG:HD3	3:V:305:PRO:O	1.49	1.11
4:i:3:ALA:CA	4:i:38:ASN:O	1.96	1.11
4:m:3:ALA:CA	4:m:38:ASN:O	1.96	1.11
4:s:16:ASN:CA	4:s:20:LEU:HD13	1.68	1.11
1:B:1316:GLY:CA	3:S:260:LEU:HD11	1.80	1.11
1:C:417:ALA:HB2	1:C:1358:PHE:CE1	1.85	1.11
1:E:834:ARG:HG3	4:l:94:LEU:CB	1.79	1.11
1:H:842:MET:HG2	4:m:61:LEU:HD21	1.12	1.11
1:L:291:SER:C	1:L:294:LYS:HE3	1.73	1.11

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:476:VAL:CG1	1:L:571:ILE:CD1	2.28	1.11
1:N:867:PRO:HB3	4:s:80:ALA:HB3	1.31	1.11
1:O:752:ARG:HG3	1:O:927:ARG:CD	1.79	1.11
2:Q:37:ILE:HD13	2:R:298:CYS:SG	1.91	1.11
2:W:92:LEU:HD11	2:W:95:ALA:HB2	1.29	1.11
3:Y:438:ARG:HA	3:Y:448:PRO:HA	1.22	1.11
2:a:161:ARG:HE	2:a:173:LEU:HD22	1.14	1.11
2:c:37:ILE:HD13	2:d:298:CYS:SG	1.90	1.11
4:h:3:ALA:CA	4:h:38:ASN:O	1.96	1.11
4:i:24:GLY:O	4:i:28:ALA:HB2	1.32	1.11
1:G:210:LEU:CD2	1:G:212:THR:HG23	1.79	1.11
1:B:889:PRO:HD3	4:h:69:ALA:HB1	1.27	1.11
1:C:729:PRO:O	1:C:745:HIS:CE1	2.04	1.11
1:C:889:PRO:HD3	4:i:69:ALA:HB1	1.12	1.11
1:D:837:ALA:CA	4:j:54:LEU:HD21	1.80	1.11
1:F:443:TRP:HH2	1:F:1347:ARG:HG2	1.04	1.11
1:F:1085:THR:HG21	1:F:1090:ASN:OD1	1.48	1.11
1:I:1104:VAL:HG13	1:L:27:ILE:HD11	1.24	1.11
1:I:1229:HIS:CE1	1:I:1247:SER:O	2.03	1.11
1:M:1201:ARG:NH1	1:N:448:GLN:OE1	1.84	1.11
2:W:268:ARG:NH1	2:X:164:ASN:HB3	1.64	1.11
2:Z:295:VAL:CG1	2:Z:315:ILE:O	1.97	1.11
4:f:22:MET:HE3	4:f:60:ALA:HB3	1.11	1.11
4:m:22:MET:HE3	4:m:60:ALA:HB3	1.11	1.11
1:G:1166:PHE:CE1	2:Q:280:ALA:HB1	1.84	1.11
1:A:357:ALA:HB3	1:A:359:GLN:NE2	1.65	1.11
1:C:124:ILE:HD11	1:D:58:LEU:HD12	1.13	1.11
1:C:1218:LYS:CB	1:C:1221:ASP:OD1	1.98	1.11
1:E:842:MET:HE3	4:k:61:LEU:HD13	1.32	1.11
1:H:834:ARG:HG3	4:n:94:LEU:CB	1.79	1.11
1:J:1342:LEU:CD2	1:J:1354:ARG:CD	2.27	1.11
1:K:530:GLN:O	1:K:536:ASN:ND2	1.84	1.11
1:K:840:GLN:HE22	4:p:58:ALA:CB	1.63	1.11
1:M:69:ARG:HH12	3:e:41:ILE:CA	1.62	1.11
2:T:37:ILE:HD13	2:U:298:CYS:SG	1.90	1.11
2:W:37:ILE:HD13	2:X:298:CYS:SG	1.90	1.11
1:A:1218:LYS:HD3	1:B:1173:ARG:HH22	1.06	1.11
1:A:1225:LEU:HD21	1:A:1234:PRO:HG2	1.20	1.11
1:F:767:ALA:O	1:F:786:ASN:HB3	1.50	1.11
1:K:819:ALA:O	1:K:1017:GLU:OE1	1.66	1.11
1:L:71:LEU:HD21	1:L:305:THR:HA	1.21	1.11

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:429:HIS:HB3	1:M:430:PRO:HD2	1.17	1.11
3:V:437:HIS:CD2	3:V:451:ILE:HD12	1.85	1.11
2:X:13:PRO:HD3	2:X:43:LEU:CD2	1.80	1.11
3:Y:33:LEU:O	3:Y:36:VAL:CG2	1.99	1.11
4:g:10:SER:O	4:g:11:THR:CB	1.93	1.11
4:m:7:HIS:HE1	4:m:44:HIS:CE1	1.45	1.11
1:H:267:ALA:HB1	1:H:274:VAL:H	1.09	1.10
1:I:752:ARG:HG3	1:I:927:ARG:CD	1.79	1.10
1:J:278:LEU:HB2	1:J:375:VAL:HG11	1.26	1.10
1:J:295:VAL:HG12	1:J:297:ASP:OD1	1.48	1.10
1:J:847:ILE:CG2	4:o:71:ASN:HA	1.81	1.10
1:P:512:ARG:HH22	1:P:564:PRO:CG	1.62	1.10
2:T:227:LEU:HD13	2:T:228:LEU:HD12	1.14	1.10
2:W:177:ASN:ND2	2:W:189:VAL:HG21	1.65	1.10
3:b:279:PRO:HB3	3:b:283:CYS:O	1.49	1.10
2:d:14:SER:O	2:d:16:ILE:HG13	1.49	1.10
1:G:533:GLN:N	1:G:534:PRO:HD2	1.59	1.10
1:F:837:ALA:CB	4:g:94:LEU:O	1.99	1.10
1:M:69:ARG:HH11	3:e:41:ILE:CD1	1.64	1.10
1:M:1057:ARG:O	1:M:1118:PRO:O	1.67	1.10
1:M:1237:PRO:HB2	1:N:1156:ARG:HH22	1.03	1.10
1:P:756:ILE:HG22	1:P:761:HIS:O	1.51	1.10
2:W:177:ASN:ND2	2:W:189:VAL:CG2	2.13	1.10
2:Z:295:VAL:CG1	2:Z:314:VAL:CG1	2.27	1.10
2:a:93:THR:HG22	2:a:316:ARG:HH21	1.09	1.10
3:e:300:LEU:CG	3:e:332:SER:HB2	1.79	1.10
4:f:24:GLY:O	4:f:28:ALA:HB2	1.32	1.10
1:G:187:VAL:O	1:G:191:LYS:HG2	1.50	1.10
1:A:321:VAL:HG12	1:A:326:VAL:HB	1.33	1.10
1:D:266:HIS:HE1	1:D:376:PHE:CE2	1.68	1.10
1:F:248:LEU:HG	1:F:293:LEU:HD23	1.17	1.10
1:F:532:MET:CE	1:F:534:PRO:HG2	1.79	1.10
1:H:452:LEU:CD2	1:H:456:ASN:ND2	2.13	1.10
1:J:485:ASN:HD22	1:J:516:GLY:HA3	1.13	1.10
1:J:743:MET:SD	1:J:797:ASP:HA	1.91	1.10
1:M:842:MET:HE3	4:f:61:LEU:HD11	1.15	1.10
1:P:1218:LYS:HD2	1:P:1221:ASP:OD1	1.51	1.10
3:Y:435:CYS:O	3:Y:450:VAL:HG13	1.52	1.10
3:Y:436:LEU:HD23	3:Y:450:VAL:HG22	1.32	1.10
2:a:73:ALA:HB2	2:a:87:PRO:HA	1.32	1.10
2:a:92:LEU:HD23	2:a:98:VAL:CG1	1.80	1.10

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:b:130:LEU:HD22	3:b:187:PHE:CD2	1.85	1.10
3:e:339:LEU:CD2	3:e:422:PHE:CD2	2.33	1.10
3:e:350:LEU:HB2	3:e:351:ARG:NH1	1.64	1.10
4:k:16:ASN:CB	4:k:20:LEU:CD2	2.30	1.10
4:p:22:MET:HE3	4:p:60:ALA:HB3	1.11	1.10
4:r:104:ARG:C	4:r:106:PRO:HD3	1.75	1.10
1:D:445:LYS:HD3	1:D:1118:PRO:HB2	1.25	1.10
1:E:842:MET:HE3	4:k:61:LEU:HD11	1.26	1.10
1:H:1218:LYS:HE3	1:I:1173:ARG:NH1	1.47	1.10
1:J:367:LEU:CD2	1:J:376:PHE:CD1	2.34	1.10
1:K:1057:ARG:O	1:K:1118:PRO:O	1.66	1.10
1:L:446:ASP:OD2	1:L:1179:HIS:ND1	1.81	1.10
1:L:756:ILE:HG22	1:L:908:LEU:CD1	1.81	1.10
3:S:339:LEU:CD2	3:S:422:PHE:CD2	2.33	1.10
4:f:10:SER:O	4:f:11:THR:CB	1.93	1.10
4:l:22:MET:HE3	4:l:60:ALA:HB3	1.11	1.10
1:B:25:SER:OG	1:B:64:THR:HG21	1.32	1.10
1:C:533:GLN:N	1:C:534:PRO:CD	2.14	1.10
1:F:556:VAL:HG12	1:F:557:GLU:O	1.50	1.10
1:I:525:GLN:HE22	1:I:536:ASN:HA	1.17	1.10
1:J:71:LEU:CA	1:J:76:SER:CB	2.12	1.10
1:J:279:VAL:CG2	1:J:1064:LEU:CB	2.30	1.10
1:J:407:GLY:HA3	1:J:454:MET:HE3	1.28	1.10
1:M:1161:GLN:HB2	1:M:1162:PRO:CD	1.81	1.10
1:N:534:PRO:CD	1:N:1230:GLY:HA2	1.82	1.10
4:j:9:PRO:HA	4:j:17:VAL:CB	1.80	1.10
1:G:77:VAL:HG21	1:G:277:VAL:CG2	1.79	1.09
1:G:1313:ARG:CG	1:G:1317:CYS:HB2	1.81	1.09
1:G:1357:HIS:HB3	1:G:1360:GLN:HB2	1.31	1.09
1:B:837:ALA:HA	4:h:54:LEU:CD2	1.80	1.09
1:B:837:ALA:HA	4:h:54:LEU:HD21	1.09	1.09
1:H:834:ARG:CG	4:n:94:LEU:CB	2.28	1.09
1:H:1218:LYS:HZ3	1:I:1173:ARG:NH2	1.46	1.09
1:I:1104:VAL:CG1	1:L:27:ILE:HD11	1.81	1.09
1:J:1054:ARG:HH12	1:J:1123:GLY:HA2	1.14	1.09
1:L:842:MET:CG	4:q:61:LEU:CD2	2.26	1.09
1:N:99:VAL:HG22	1:N:120:MET:HE1	1.34	1.09
2:W:272:TYR:OH	2:X:164:ASN:OD1	1.69	1.09
3:Y:421:ALA:HA	3:Y:464:ALA:HB2	1.19	1.09
2:Z:37:ILE:HD13	2:a:298:CYS:SG	1.90	1.09
4:j:95:LYS:HE3	4:j:95:LYS:HA	1.23	1.09

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:827:THR:OG1	1:G:958:LEU:O	1.69	1.09
1:G:1218:LYS:CG	1:G:1221:ASP:CG	2.24	1.09
1:C:248:LEU:HD23	1:C:293:LEU:CD2	1.80	1.09
1:D:1236:ARG:NH2	1:D:1242:ALA:HB2	1.65	1.09
1:E:842:MET:CE	4:k:61:LEU:HD13	1.82	1.09
1:J:433:ARG:O	1:J:1358:PHE:CB	2.00	1.09
1:K:842:MET:HG2	4:p:61:LEU:HD21	1.30	1.09
1:M:269:THR:HG23	1:M:270:ARG:H	1.06	1.09
3:V:417:CYS:C	3:V:418:THR:HG22	1.77	1.09
3:Y:315:THR:HG22	3:Y:347:PHE:CE2	1.85	1.09
3:b:193:ALA:CB	3:b:231:LEU:HD11	1.80	1.09
4:q:22:MET:HE3	4:q:60:ALA:HB3	1.11	1.09
1:D:120:MET:SD	1:I:36:PHE:CD2	2.46	1.09
1:J:759:GLY:HA3	1:J:780:ASP:C	1.76	1.09
2:T:295:VAL:CG1	2:T:314:VAL:CG1	2.25	1.09
2:a:30:ARG:HH12	2:a:126:THR:HG21	1.08	1.09
4:o:46:THR:HG21	4:o:50:VAL:HG11	1.35	1.09
4:p:6:PHE:CB	4:p:10:SER:OG	1.97	1.09
4:p:46:THR:HG21	4:p:50:VAL:HG11	1.35	1.09
4:r:7:HIS:HE1	4:r:44:HIS:CE1	1.45	1.09
1:G:467:MET:HE3	1:G:1033:PRO:CD	1.81	1.09
1:G:832:PHE:CB	1:G:836:TYR:HE2	1.64	1.09
1:G:1218:LYS:HD3	1:G:1221:ASP:HB3	1.10	1.09
1:A:1276:PHE:CD1	1:A:1329:GLN:NE2	2.20	1.09
1:D:768:ALA:CA	1:D:786:ASN:HD22	1.63	1.09
1:H:452:LEU:HD23	1:H:456:ASN:HD22	1.17	1.09
1:H:454:MET:HE1	1:H:1046:PRO:HD2	1.25	1.09
1:K:530:GLN:HG3	1:K:536:ASN:HD21	1.15	1.09
1:L:1086:GLY:HA3	2:W:99:ASN:ND2	1.66	1.09
3:S:300:LEU:CD2	3:S:332:SER:HB2	1.73	1.09
4:o:9:PRO:CA	4:o:17:VAL:CB	2.31	1.09
4:q:9:PRO:HA	4:q:17:VAL:CB	1.81	1.09
4:s:17:VAL:H	4:s:20:LEU:HD12	0.99	1.09
1:G:917:GLY:O	1:G:1138:LEU:CD2	2.00	1.09
1:F:750:ARG:O	1:F:752:ARG:NH2	1.84	1.09
1:H:530:GLN:HG3	1:H:536:ASN:HD21	1.10	1.09
1:I:224:LYS:HE3	1:I:1330:GLU:OE1	1.53	1.09
1:J:304:VAL:HG21	1:J:358:PRO:HG3	1.35	1.09
1:J:667:ASP:OD2	1:J:669:SER:OG	1.70	1.09
1:J:1206:ARG:NH2	1:J:1247:SER:CA	2.02	1.09
1:L:756:ILE:HG22	1:L:908:LEU:HD12	1.12	1.09

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:1086:GLY:CA	2:W:99:ASN:ND2	2.14	1.09
1:M:918:ALA:HB2	1:M:1032:SER:HB2	1.22	1.09
1:O:758:ALA:O	1:O:779:ASN:HA	0.91	1.09
2:T:227:LEU:HD12	2:T:228:LEU:HD13	1.32	1.09
3:e:350:LEU:HB2	3:e:351:ARG:HH11	1.08	1.09
4:h:7:HIS:HE1	4:h:44:HIS:CE1	1.45	1.09
1:H:530:GLN:HA	1:H:536:ASN:ND2	1.66	1.08
1:H:847:ILE:HG21	4:m:71:ASN:HA	1.34	1.08
1:J:1342:LEU:HD23	1:J:1354:ARG:HD2	1.27	1.08
1:L:268:ASP:CB	1:L:302:VAL:N	2.13	1.08
1:M:266:HIS:HB2	1:M:303:PRO:HA	1.10	1.08
1:M:666:ASN:HB3	1:M:940:MET:HE3	1.23	1.08
1:N:842:MET:HE3	4:r:61:LEU:HD11	1.10	1.08
1:O:530:GLN:HA	1:O:536:ASN:ND2	1.68	1.08
1:O:758:ALA:C	1:O:779:ASN:HA	1.77	1.08
1:O:842:MET:HG2	4:s:61:LEU:HD21	1.31	1.08
2:W:227:LEU:HD13	2:W:228:LEU:N	1.67	1.08
2:Z:222:THR:O	2:Z:225:PRO:HD2	1.53	1.08
2:a:29:GLY:HA3	2:a:101:ARG:CB	1.82	1.08
4:i:79:PHE:CB	4:i:88:LEU:CD2	2.32	1.08
4:m:90:PRO:CB	4:m:103:VAL:CB	2.31	1.08
4:n:16:ASN:CB	4:n:20:LEU:CD2	2.30	1.08
4:q:79:PHE:CB	4:q:88:LEU:CD2	2.32	1.08
1:A:77:VAL:O	1:A:1068:ARG:O	1.69	1.08
1:A:534:PRO:HB3	1:B:1154:GLY:HA3	1.30	1.08
1:E:837:ALA:CA	4:k:54:LEU:HD21	1.82	1.08
1:H:530:GLN:CA	1:H:536:ASN:ND2	2.16	1.08
1:I:482:GLU:HA	1:I:569:GLY:N	1.11	1.08
1:J:367:LEU:HD21	1:J:376:PHE:CD1	1.86	1.08
2:Q:92:LEU:HD11	2:Q:95:ALA:HB2	1.29	1.08
2:T:227:LEU:HD13	2:T:228:LEU:N	1.67	1.08
3:V:254:TRP:O	3:V:262:SER:O	1.72	1.08
3:b:112:ARG:HG3	3:b:264:THR:HG22	1.27	1.08
3:b:188:ASN:ND2	3:b:207:VAL:HG13	1.68	1.08
2:c:227:LEU:HD12	2:c:228:LEU:HD13	1.32	1.08
2:c:227:LEU:HD13	2:c:228:LEU:N	1.67	1.08
2:c:295:VAL:CG1	2:c:314:VAL:CG1	2.25	1.08
4:f:79:PHE:CB	4:f:88:LEU:CD2	2.32	1.08
4:i:9:PRO:CA	4:i:17:VAL:CB	2.31	1.08
4:o:24:GLY:O	4:o:28:ALA:HB3	1.52	1.08
4:s:6:PHE:CB	4:s:10:SER:HB2	1.82	1.08

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:295:VAL:O	1:H:297:ASP:OD1	1.69	1.08
1:H:452:LEU:HD23	1:H:456:ASN:ND2	1.66	1.08
1:H:1241:THR:HG21	1:H:1247:SER:OG	1.53	1.08
1:J:667:ASP:OD1	1:J:669:SER:OG	1.58	1.08
1:K:837:ALA:HA	4:p:54:LEU:HD22	1.34	1.08
1:M:527:THR:HG22	1:M:527:THR:O	1.49	1.08
1:O:889:PRO:HD3	4:s:69:ALA:HB1	1.09	1.08
2:T:106:VAL:CG1	2:T:305:VAL:CG1	2.31	1.08
2:W:272:TYR:CD2	2:X:161:ARG:CG	2.37	1.08
2:Z:160:ILE:CD1	2:Z:210:VAL:HG22	1.83	1.08
3:b:132:LEU:CD1	3:b:187:PHE:HA	1.83	1.08
3:b:324:LEU:HD12	3:b:325:CYS:H	1.16	1.08
4:f:46:THR:CG2	4:f:50:VAL:CG1	2.32	1.08
4:h:46:THR:CG2	4:h:50:VAL:CG1	2.32	1.08
4:j:7:HIS:HE1	4:j:44:HIS:CE1	1.45	1.08
4:n:46:THR:CG2	4:n:50:VAL:CG1	2.32	1.08
4:n:79:PHE:CB	4:n:88:LEU:CD2	2.32	1.08
1:F:768:ALA:HA	1:F:786:ASN:HB2	1.29	1.08
1:K:834:ARG:HG3	4:q:94:LEU:CB	1.82	1.08
1:K:840:GLN:NE2	4:p:58:ALA:CB	2.15	1.08
1:K:947:HIS:O	1:K:948:THR:CG2	2.01	1.08
1:L:83:LYS:HG3	3:Y:79:THR:HG23	1.30	1.08
1:M:889:PRO:HD3	4:f:69:ALA:HB1	1.19	1.08
3:b:190:LEU:HD11	3:b:245:MET:HE1	1.34	1.08
3:b:197:ALA:O	3:b:324:LEU:CD2	2.00	1.08
4:g:46:THR:HG21	4:g:50:VAL:HG11	1.35	1.08
4:l:46:THR:CG2	4:l:50:VAL:CG1	2.32	1.08
4:n:46:THR:HG21	4:n:50:VAL:HG11	1.35	1.08
1:G:264:LEU:CD2	1:G:359:GLN:OE1	2.02	1.08
1:G:1182:ASP:OD2	1:G:1309:VAL:HG22	1.52	1.08
1:G:1203:CYS:HA	1:G:1330:GLU:OE1	1.54	1.08
1:A:367:LEU:HB3	1:A:374:LEU:HD11	1.30	1.08
1:A:1218:LYS:HD2	1:B:1173:ARG:NH2	1.62	1.08
1:C:532:MET:HE2	1:C:534:PRO:HB2	1.26	1.08
1:C:1119:VAL:O	1:C:1119:VAL:HG12	1.46	1.08
1:D:266:HIS:CE1	1:D:376:PHE:HE2	1.71	1.08
1:H:443:TRP:CZ2	1:H:1347:ARG:HG2	1.88	1.08
1:N:1078:LEU:HG	3:V:82:ASP:OD2	1.51	1.08
1:P:837:ALA:CA	4:t:54:LEU:HD21	1.84	1.08
1:P:841:ASN:HD22	1:P:874:THR:CA	1.67	1.08
2:T:92:LEU:HD11	2:T:95:ALA:HB2	1.29	1.08

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:W:227:LEU:HD13	2:W:228:LEU:HD12	1.14	1.08
2:c:106:VAL:HG11	2:c:305:VAL:HG13	1.27	1.08
4:h:79:PHE:CB	4:h:88:LEU:CD2	2.32	1.08
4:i:46:THR:CG2	4:i:50:VAL:CG1	2.32	1.08
4:j:24:GLY:O	4:j:28:ALA:HB3	1.52	1.08
4:k:9:PRO:CA	4:k:17:VAL:CB	2.31	1.08
4:m:46:THR:CG2	4:m:50:VAL:CG1	2.32	1.08
4:s:46:THR:CG2	4:s:50:VAL:CG1	2.32	1.08
1:G:499:ALA:CB	1:G:831:ARG:HH11	1.66	1.07
1:G:1297:GLY:O	1:G:1321:VAL:O	1.70	1.07
1:A:249:VAL:O	1:A:253:THR:CG2	2.02	1.07
1:C:769:CYS:CB	1:C:786:ASN:HD21	1.67	1.07
1:C:1229:HIS:NE2	1:C:1241:THR:CG2	2.15	1.07
1:E:759:GLY:HA3	1:E:779:ASN:O	1.54	1.07
1:I:124:ILE:HD13	1:I:1100:VAL:HG21	1.32	1.07
1:J:304:VAL:CG2	1:J:358:PRO:HG2	1.83	1.07
1:J:488:GLY:N	1:J:520:TRP:HH2	1.50	1.07
1:K:784:LEU:HD11	1:K:903:GLU:OE1	1.53	1.07
1:L:291:SER:HA	1:L:294:LYS:HE2	1.10	1.07
1:L:889:PRO:CD	4:q:69:ALA:HB1	1.83	1.07
1:L:1218:LYS:HZ1	2:d:184:ALA:HB1	1.12	1.07
1:M:381:GLU:OE1	1:M:392:TYR:HB2	1.54	1.07
1:M:918:ALA:HB2	1:M:1032:SER:CB	1.81	1.07
1:O:553:VAL:HG23	1:O:556:VAL:HG22	1.13	1.07
3:Y:315:THR:HG22	3:Y:347:PHE:HE2	1.02	1.07
3:e:254:TRP:O	3:e:262:SER:O	1.72	1.07
4:i:9:PRO:HA	4:i:17:VAL:CB	1.84	1.07
4:i:22:MET:HE3	4:i:60:ALA:HB3	1.11	1.07
4:j:46:THR:CG2	4:j:50:VAL:CG1	2.32	1.07
4:j:79:PHE:CB	4:j:88:LEU:CD2	2.32	1.07
4:l:79:PHE:CB	4:l:88:LEU:CD2	2.31	1.07
4:o:22:MET:HE3	4:o:60:ALA:HB3	1.11	1.07
4:p:79:PHE:CB	4:p:88:LEU:CD2	2.32	1.07
4:t:46:THR:HG21	4:t:50:VAL:HG11	1.35	1.07
1:B:1315:PRO:HB3	3:S:116:LEU:HD21	1.34	1.07
1:J:760:GLY:N	1:J:780:ASP:O	1.87	1.07
1:N:296:GLU:O	1:N:297:ASP:HB2	1.52	1.07
2:a:68:ARG:HD3	3:b:337:ARG:HG2	1.31	1.07
3:e:300:LEU:HD11	3:e:333:GLN:N	1.68	1.07
4:h:46:THR:HG21	4:h:50:VAL:HG11	1.35	1.07
4:q:46:THR:CG2	4:q:50:VAL:CG1	2.32	1.07

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:r:46:THR:CG2	4:r:50:VAL:CG1	2.32	1.07
4:s:22:MET:HE3	4:s:60:ALA:HB3	1.11	1.07
1:B:534:PRO:CB	1:C:1154:GLY:CA	1.99	1.07
1:C:840:GLN:NE2	4:i:58:ALA:HB2	1.68	1.07
1:C:889:PRO:HD3	4:i:69:ALA:CB	1.84	1.07
1:C:1085:THR:HB	1:C:1090:ASN:OD1	1.51	1.07
1:E:579:ASN:O	1:E:582:LEU:HD12	1.48	1.07
1:F:269:THR:CG2	1:F:367:LEU:CD1	2.31	1.07
1:F:837:ALA:HA	4:l:54:LEU:HD21	1.09	1.07
1:I:69:ARG:NH1	3:Y:42:ALA:CB	2.18	1.07
1:I:834:ARG:C	4:o:94:LEU:CB	2.15	1.07
1:K:439:GLN:NE2	1:K:451:ARG:NH1	2.01	1.07
1:L:759:GLY:HA3	1:L:779:ASN:O	1.54	1.07
1:M:71:LEU:HD11	1:M:306:TYR:CD1	1.89	1.07
1:N:751:HIS:O	1:N:752:ARG:NH2	1.88	1.07
3:S:417:CYS:C	3:S:418:THR:HG22	1.77	1.07
3:V:33:LEU:O	3:V:36:VAL:HG12	0.91	1.07
3:Y:210:HIS:NE2	3:Y:442:PHE:CB	2.16	1.07
2:Z:106:VAL:CG1	2:Z:305:VAL:CG1	2.31	1.07
4:h:24:GLY:O	4:h:28:ALA:HB3	1.52	1.07
4:k:79:PHE:CB	4:k:88:LEU:CD2	2.32	1.07
4:m:79:PHE:CB	4:m:88:LEU:CD2	2.32	1.07
4:o:79:PHE:CB	4:o:88:LEU:CD2	2.32	1.07
4:q:46:THR:HG21	4:q:50:VAL:HG11	1.35	1.07
4:r:22:MET:HE3	4:r:60:ALA:HB3	1.11	1.07
1:G:418:ALA:HB1	1:G:1354:ARG:NH2	1.66	1.07
1:C:837:ALA:HA	4:i:54:LEU:CD2	1.84	1.07
1:H:956:TYR:CE1	1:H:958:LEU:CG	2.30	1.07
1:H:1218:LYS:HE2	1:I:1173:ARG:NH1	1.54	1.07
1:I:266:HIS:HD2	1:I:303:PRO:HB3	1.04	1.07
1:I:841:ASN:OD1	4:n:26:VAL:HG22	1.53	1.07
1:N:758:ALA:HB2	1:N:904:ARG:HH22	1.07	1.07
1:O:78:ALA:HA	1:O:1068:ARG:O	1.54	1.07
1:O:530:GLN:C	1:O:536:ASN:ND2	2.12	1.07
2:Q:227:LEU:HD13	2:Q:228:LEU:N	1.67	1.07
3:S:254:TRP:O	3:S:262:SER:O	1.72	1.07
3:b:130:LEU:HB3	3:b:187:PHE:HB3	1.35	1.07
3:b:132:LEU:HD11	3:b:187:PHE:HA	1.36	1.07
3:b:190:LEU:HD12	3:b:245:MET:CE	1.80	1.07
3:b:193:ALA:HB1	3:b:231:LEU:HD11	1.18	1.07
3:b:296:LEU:HD23	3:b:450:VAL:HG22	1.34	1.07

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:r:9:PRO:HA	4:r:17:VAL:CB	1.85	1.07
1:G:425:PRO:HB3	1:G:429:HIS:ND1	1.64	1.07
1:A:892:LEU:HD11	4:g:65:GLY:HA2	1.34	1.07
1:A:1276:PHE:CE1	1:A:1329:GLN:CG	2.38	1.07
1:B:417:ALA:HB2	1:B:1358:PHE:CE1	1.89	1.07
1:C:579:ASN:O	1:C:582:LEU:CD1	2.02	1.07
1:D:1229:HIS:NE2	1:D:1241:THR:HG23	1.70	1.07
1:E:29:VAL:HG12	1:E:29:VAL:O	1.43	1.07
1:H:956:TYR:CD1	1:H:958:LEU:HG	1.88	1.07
1:I:486:PRO:HG3	1:I:564:PRO:HG3	1.08	1.07
1:J:184:MET:O	1:J:188:LEU:HG	1.54	1.07
1:J:403:VAL:CA	1:J:1052:VAL:O	2.03	1.07
1:L:1119:VAL:HG12	1:L:1119:VAL:O	1.55	1.07
1:M:1229:HIS:NE2	1:M:1241:THR:CG2	2.18	1.07
1:N:403:VAL:HG23	1:N:1331:ALA:HB1	1.36	1.07
1:N:1086:GLY:HA3	2:T:99:ASN:HD21	1.13	1.07
1:O:740:ASP:N	1:O:785:HIS:HE1	1.51	1.07
3:S:134:LEU:HD22	3:S:185:VAL:CG2	1.84	1.07
2:U:145:THR:CG2	2:U:293:PRO:CG	2.16	1.07
3:b:254:TRP:O	3:b:262:SER:O	1.72	1.07
4:f:24:GLY:O	4:f:28:ALA:HB3	1.52	1.07
4:n:7:HIS:HE1	4:n:44:HIS:CE1	1.45	1.07
4:t:9:PRO:HA	4:t:17:VAL:CB	1.83	1.07
1:G:1165:VAL:HG11	2:R:240:LEU:HD12	1.29	1.06
1:G:1199:PHE:O	1:G:1333:PRO:HG3	1.52	1.06
1:A:756:ILE:HD11	1:A:906:THR:HG21	1.10	1.06
1:C:446:ASP:OD2	1:C:1179:HIS:ND1	1.88	1.06
1:D:1229:HIS:NE2	1:D:1241:THR:CG2	2.17	1.06
1:J:141:ALA:O	1:J:144:THR:O	1.73	1.06
1:J:445:LYS:O	1:J:446:ASP:HB2	1.51	1.06
1:L:1217:ASP:N	1:L:1221:ASP:OD2	1.88	1.06
1:L:1222:VAL:O	1:L:1223:ILE:CG1	2.01	1.06
1:O:1245:TRP:O	1:O:1252:TYR:O	1.74	1.06
1:P:295:VAL:O	1:P:297:ASP:N	1.86	1.06
3:S:134:LEU:HD22	3:S:185:VAL:HG21	1.34	1.06
3:Y:254:TRP:O	3:Y:262:SER:O	1.72	1.06
2:a:35:PRO:CG	2:a:45:ASP:O	2.02	1.06
2:a:161:ARG:HE	2:a:173:LEU:CD2	1.68	1.06
3:b:130:LEU:CB	3:b:187:PHE:HB3	1.85	1.06
3:b:242:HIS:HB3	3:b:314:PHE:CE2	1.89	1.06
3:b:292:ALA:CB	3:b:295:ASP:N	2.17	1.06

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:b:418:THR:HG22	3:b:419:TYR:H	0.93	1.06
2:c:272:TYR:CD2	2:d:161:ARG:HG3	1.89	1.06
4:p:46:THR:CG2	4:p:50:VAL:CG1	2.32	1.06
1:G:136:ALA:O	1:G:139:ALA:N	1.88	1.06
1:G:248:LEU:HD21	1:G:293:LEU:HD11	1.24	1.06
1:C:248:LEU:HD23	1:C:293:LEU:HD22	1.37	1.06
1:C:840:GLN:HE22	4:i:58:ALA:HB2	0.91	1.06
1:J:635:HIS:HD2	1:J:787:THR:CG2	1.66	1.06
1:K:248:LEU:CD2	1:K:293:LEU:HD23	1.84	1.06
1:O:27:ILE:HD11	1:O:32:HIS:CD2	1.91	1.06
1:O:766:ALA:HB3	1:O:784:LEU:HD23	1.09	1.06
3:Y:436:LEU:HA	3:Y:450:VAL:HG22	1.33	1.06
3:b:127:ALA:HB1	3:b:285:ALA:O	1.40	1.06
3:e:318:GLN:OE1	3:e:352:ILE:HG13	1.52	1.06
4:f:7:HIS:HE1	4:f:44:HIS:CE1	1.45	1.06
4:g:22:MET:HE3	4:g:60:ALA:HB3	1.11	1.06
4:g:46:THR:CG2	4:g:50:VAL:CG1	2.32	1.06
4:k:46:THR:CG2	4:k:50:VAL:CG1	2.32	1.06
4:o:46:THR:CG2	4:o:50:VAL:CG1	2.32	1.06
1:G:87:LEU:HA	1:G:90:MET:HB2	1.37	1.06
1:G:822:ARG:NH2	1:G:1013:SER:OG	1.88	1.06
1:B:1317:CYS:H	3:S:260:LEU:HD11	1.13	1.06
1:F:834:ARG:HG3	4:g:94:LEU:CB	1.85	1.06
1:H:532:MET:C	1:H:534:PRO:HD2	1.81	1.06
1:I:1237:PRO:HB2	1:J:1156:ARG:NH2	1.70	1.06
1:L:834:ARG:CG	4:f:94:LEU:CB	2.33	1.06
1:M:69:ARG:HH12	3:e:41:ILE:HA	1.18	1.06
1:M:207:ASN:HD21	1:N:390:VAL:C	1.63	1.06
2:Q:114:VAL:HG11	2:Q:291:LEU:HB3	1.37	1.06
2:W:227:LEU:HD12	2:W:228:LEU:HD13	1.32	1.06
2:a:35:PRO:O	2:a:70:ARG:CB	2.02	1.06
2:a:92:LEU:HD23	2:a:98:VAL:HG13	1.07	1.06
3:e:317:ARG:CB	3:e:324:LEU:CB	2.34	1.06
4:s:16:ASN:HA	4:s:20:LEU:CD1	1.75	1.06
4:t:22:MET:CE	4:t:60:ALA:CB	2.34	1.06
1:G:425:PRO:HB3	1:G:429:HIS:CE1	1.91	1.06
1:G:467:MET:HE1	1:G:1033:PRO:HD3	1.06	1.06
1:G:758:ALA:HB2	1:G:904:ARG:HH22	0.93	1.06
1:G:905:THR:HG21	1:G:956:TYR:OH	1.54	1.06
1:C:302:VAL:HG12	1:C:360:THR:CB	1.85	1.06
1:D:256:GLN:OE1	1:I:27:ILE:HD11	1.53	1.06

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:269:THR:CG2	1:I:374:LEU:HD21	1.84	1.06
1:J:268:ASP:HA	1:J:301:ASP:HB3	1.12	1.06
1:J:918:ALA:HB2	1:J:1032:SER:HB2	1.35	1.06
1:K:778:ARG:NH2	1:K:780:ASP:OD1	1.87	1.06
1:K:837:ALA:CB	4:p:54:LEU:HD21	1.85	1.06
1:O:889:PRO:CD	4:s:69:ALA:CB	2.33	1.06
1:P:1218:LYS:CE	1:P:1221:ASP:OD2	2.02	1.06
3:S:317:ARG:CB	3:S:324:LEU:CB	2.33	1.06
2:W:114:VAL:HG11	2:W:291:LEU:HB3	1.36	1.06
3:Y:141:PRO:HG3	3:Y:157:LEU:HB3	1.07	1.06
3:Y:238:HIS:CE1	3:Y:416:THR:HG21	1.90	1.06
3:Y:434:ARG:O	3:Y:434:ARG:NH2	1.88	1.06
4:f:9:PRO:HA	4:f:17:VAL:CB	1.84	1.06
4:l:46:THR:HG21	4:l:50:VAL:HG11	1.35	1.06
4:p:9:PRO:CA	4:p:17:VAL:CB	2.34	1.06
4:q:22:MET:CE	4:q:60:ALA:CB	2.34	1.06
1:H:532:MET:HE2	1:H:534:PRO:CG	1.86	1.06
1:J:402:PHE:CD1	1:J:1333:PRO:O	2.08	1.06
1:J:485:ASN:ND2	1:J:516:GLY:HA3	1.70	1.06
1:J:837:ALA:HA	4:o:54:LEU:CD2	1.83	1.06
1:J:889:PRO:HD3	4:o:69:ALA:HB1	1.09	1.06
1:O:889:PRO:HD3	4:s:69:ALA:HB2	1.34	1.06
1:P:837:ALA:HA	4:t:54:LEU:HD21	1.06	1.06
3:S:143:LEU:HD11	3:S:239:VAL:HG22	1.38	1.06
3:e:300:LEU:HD11	3:e:333:GLN:H	1.08	1.06
3:e:300:LEU:HD13	3:e:333:GLN:OE1	1.52	1.06
4:g:79:PHE:CB	4:g:88:LEU:CD2	2.32	1.06
4:k:22:MET:CE	4:k:60:ALA:CB	2.34	1.06
4:l:22:MET:CE	4:l:60:ALA:CB	2.34	1.06
4:m:22:MET:CE	4:m:60:ALA:CB	2.34	1.06
4:n:9:PRO:CA	4:n:17:VAL:CB	2.34	1.06
4:s:22:MET:CE	4:s:60:ALA:CB	2.34	1.06
1:G:832:PHE:O	1:G:836:TYR:HD2	1.37	1.05
1:A:395:VAL:HG23	1:A:1116:ARG:HH22	0.92	1.05
1:D:526:MET:N	1:D:529:GLU:OE1	1.87	1.05
1:D:834:ARG:HG3	4:k:94:LEU:CB	1.85	1.05
1:E:269:THR:O	1:E:270:ARG:HG2	1.55	1.05
1:I:69:ARG:CZ	3:Y:42:ALA:CB	2.32	1.05
1:I:1215:ALA:HB2	1:I:1222:VAL:HG22	1.32	1.05
1:J:1344:ARG:O	1:J:1347:ARG:CD	2.04	1.05
2:Q:106:VAL:CG1	2:Q:305:VAL:CG1	2.31	1.05

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R:267:ARG:HH12	3:S:145:ARG:CB	1.70	1.05
3:Y:436:LEU:HD23	3:Y:450:VAL:HG21	1.26	1.05
3:e:316:TYR:HD2	3:e:419:TYR:HA	1.02	1.05
4:f:22:MET:CE	4:f:60:ALA:CB	2.34	1.05
4:r:104:ARG:O	4:r:106:PRO:CD	2.03	1.05
1:G:210:LEU:HD22	1:G:212:THR:HG23	1.12	1.05
1:G:248:LEU:HD23	1:G:293:LEU:HD11	1.09	1.05
1:G:295:VAL:HG11	1:G:374:LEU:HD13	1.37	1.05
1:G:505:PHE:CD1	1:G:509:TRP:CD1	2.42	1.05
1:A:289:LEU:HD21	1:A:377:LEU:HD23	1.32	1.05
1:A:917:GLY:O	1:A:1033:PRO:HD2	1.53	1.05
1:C:295:VAL:HG11	1:C:369:ALA:HB3	1.32	1.05
1:D:1054:ARG:NH1	1:D:1123:GLY:HA2	1.71	1.05
1:F:269:THR:HG23	1:F:367:LEU:HD12	1.06	1.05
1:F:1062:ASN:OD1	1:F:1112:THR:HG22	1.57	1.05
1:J:75:LEU:HA	1:J:277:VAL:CG1	1.85	1.05
1:J:280:THR:HA	1:J:1063:VAL:HG12	1.35	1.05
1:J:1256:LEU:CA	1:J:1263:LEU:HD23	1.86	1.05
1:P:501:MET:HE2	1:P:958:LEU:HD21	1.38	1.05
2:W:268:ARG:HD2	2:X:166:ASP:CG	1.80	1.05
2:d:161:ARG:NH1	2:d:174:PRO:HG2	1.69	1.05
4:i:22:MET:CE	4:i:60:ALA:CB	2.34	1.05
4:j:9:PRO:CA	4:j:17:VAL:CB	2.33	1.05
4:j:22:MET:CE	4:j:60:ALA:CB	2.34	1.05
4:k:46:THR:HG21	4:k:50:VAL:HG11	1.35	1.05
4:p:10:SER:O	4:p:16:ASN:O	1.74	1.05
4:t:46:THR:CG2	4:t:50:VAL:CG1	2.32	1.05
1:A:269:THR:H	1:A:300:ALA:CB	1.66	1.05
1:J:1054:ARG:HH12	1:J:1123:GLY:CA	1.69	1.05
3:V:39:PRO:HB2	3:V:41:ILE:HD13	1.33	1.05
3:b:279:PRO:HA	3:b:285:ALA:HA	1.32	1.05
2:c:227:LEU:HD11	2:c:228:LEU:HD12	1.39	1.05
4:k:22:MET:HE3	4:k:60:ALA:HB3	1.11	1.05
1:G:438:ARG:NH1	1:G:598:GLU:OE2	1.90	1.05
1:G:532:MET:HE2	1:G:534:PRO:HG2	1.09	1.05
1:C:1198:TYR:O	1:C:1203:CYS:SG	2.14	1.05
1:H:301:ASP:C	1:H:303:PRO:CD	2.29	1.05
1:I:947:HIS:CD2	1:J:638:GLU:OE1	2.09	1.05
1:L:290:GLN:O	1:L:294:LYS:HG2	1.54	1.05
1:L:1078:LEU:N	3:Y:82:ASP:OD2	1.90	1.05
3:S:167:ALA:CB	3:S:226:ARG:CG	2.21	1.05

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:S:275:HIS:CE1	3:S:281:ARG:N	2.25	1.05
2:c:114:VAL:HG11	2:c:291:LEU:HB3	1.36	1.05
2:d:145:THR:CG2	2:d:293:PRO:CG	2.16	1.05
4:g:9:PRO:HB3	4:g:18:ARG:O	1.55	1.05
4:m:10:SER:H	4:m:17:VAL:CB	1.68	1.05
4:o:22:MET:CE	4:o:60:ALA:CB	2.34	1.05
4:q:9:PRO:CA	4:q:17:VAL:CB	2.33	1.05
4:s:19:ALA:O	4:s:20:LEU:HB2	1.50	1.05
1:G:274:VAL:HG22	1:G:374:LEU:CD2	1.86	1.05
1:A:530:GLN:C	1:A:536:ASN:HD22	1.64	1.05
1:C:267:ALA:HB1	1:C:274:VAL:HB	1.08	1.05
1:F:933:LEU:CD2	1:F:958:LEU:HD23	1.85	1.05
1:I:847:ILE:CG2	4:n:71:ASN:HA	1.84	1.05
1:J:915:ASP:HB2	1:J:1030:LYS:HZ1	1.19	1.05
1:M:553:VAL:CG2	1:M:556:VAL:HG11	1.86	1.05
1:M:553:VAL:HG23	1:M:556:VAL:CG1	1.87	1.05
1:N:1163:LEU:HD21	1:N:1169:ALA:CB	1.86	1.05
1:P:29:VAL:HG12	1:P:29:VAL:O	1.55	1.05
3:S:339:LEU:CD2	3:S:422:PHE:CE2	2.39	1.05
3:Y:434:ARG:HH12	3:Y:436:LEU:CG	1.68	1.05
2:Z:293:PRO:HG2	2:Z:318:PRO:CB	1.87	1.05
2:a:157:ALA:C	2:a:160:ILE:HG12	1.80	1.05
4:k:9:PRO:HA	4:k:17:VAL:CB	1.85	1.05
4:p:10:SER:N	4:p:17:VAL:CB	2.20	1.05
1:G:274:VAL:HG22	1:G:374:LEU:HD23	1.09	1.04
1:A:269:THR:HA	1:A:300:ALA:HB2	1.10	1.04
1:D:582:LEU:CD1	1:D:1031:MET:HE1	1.87	1.04
1:E:30:ALA:O	1:E:33:ARG:HB2	1.57	1.04
1:H:956:TYR:CE1	1:H:958:LEU:CD1	2.40	1.04
1:I:847:ILE:HG21	4:n:71:ASN:HA	1.38	1.04
1:J:743:MET:HE1	1:J:797:ASP:HA	1.28	1.04
1:K:467:MET:HE1	1:K:575:TRP:HE1	1.21	1.04
1:M:266:HIS:CB	1:M:304:VAL:HG23	1.85	1.04
1:M:1229:HIS:NE2	1:M:1241:THR:HG23	1.71	1.04
3:V:317:ARG:CB	3:V:324:LEU:CB	2.34	1.04
3:V:339:LEU:CD2	3:V:422:PHE:CE2	2.39	1.04
3:Y:317:ARG:CB	3:Y:324:LEU:CB	2.34	1.04
2:a:97:THR:CG2	2:a:315:ILE:HG22	1.87	1.04
3:b:189:PHE:HA	3:b:211:ILE:HD11	1.05	1.04
2:c:106:VAL:CG1	2:c:305:VAL:HG13	1.86	1.04
3:e:278:HIS:O	3:e:285:ALA:CA	2.04	1.04

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:e:339:LEU:CD2	3:e:422:PHE:CE2	2.39	1.04
4:g:22:MET:CE	4:g:60:ALA:CB	2.34	1.04
4:i:16:ASN:CB	4:i:20:LEU:CD2	2.34	1.04
1:A:78:ALA:HB2	1:A:277:VAL:HG21	1.35	1.04
1:C:803:ALA:O	1:C:806:THR:HG22	1.56	1.04
1:F:837:ALA:HA	4:l:54:LEU:CD2	1.86	1.04
1:F:842:MET:HE3	4:l:61:LEU:HD11	1.39	1.04
1:H:530:GLN:C	1:H:536:ASN:HD22	1.65	1.04
1:J:394:LEU:HD21	1:J:1064:LEU:CB	1.86	1.04
1:M:840:GLN:NE2	4:f:58:ALA:CB	2.17	1.04
1:P:863:HIS:ND1	1:P:864:PRO:HD2	1.71	1.04
3:Y:300:LEU:CG	3:Y:332:SER:HB2	1.85	1.04
3:b:127:ALA:HB3	3:b:285:ALA:O	1.54	1.04
4:o:21:GLY:O	4:o:23:ARG:O	1.76	1.04
4:p:24:GLY:O	4:p:28:ALA:HB3	1.52	1.04
4:r:22:MET:CE	4:r:60:ALA:CB	2.34	1.04
1:G:77:VAL:HG22	1:G:277:VAL:HG22	1.35	1.04
1:G:739:CYS:SG	1:G:765:TYR:CE2	2.50	1.04
1:A:1114:THR:HG23	1:A:1115:VAL:H	1.18	1.04
1:I:837:ALA:HB3	4:o:94:LEU:O	1.57	1.04
1:J:755:ARG:HH11	1:J:755:ARG:HB2	1.16	1.04
1:J:1346:ALA:HB2	1:J:1353:ALA:CB	1.88	1.04
1:M:69:ARG:NH1	3:e:41:ILE:HA	1.73	1.04
1:P:207:ASN:OD1	1:P:208:GLY:N	1.90	1.04
2:Q:160:ILE:CD1	2:Q:206:VAL:CG1	2.35	1.04
2:W:186:LEU:HD12	2:W:187:SER:H	1.19	1.04
3:b:32:PRO:O	3:b:36:VAL:CG1	2.05	1.04
4:i:24:GLY:O	4:i:28:ALA:HB3	1.52	1.04
4:q:24:GLY:O	4:q:28:ALA:HB3	1.52	1.04
4:r:46:THR:HG21	4:r:50:VAL:HG11	1.35	1.04
4:t:22:MET:HE3	4:t:60:ALA:HB3	1.11	1.04
1:G:126:ARG:NH1	2:Q:82:ARG:NH1	2.06	1.04
1:A:109:PRO:HD3	3:S:255:VAL:CG1	1.87	1.04
1:A:1067:GLU:HG2	1:A:1107:THR:CG2	1.88	1.04
1:H:530:GLN:C	1:H:536:ASN:ND2	2.13	1.04
1:I:530:GLN:HG3	1:I:536:ASN:HD22	0.94	1.04
1:I:842:MET:HE1	4:n:61:LEU:HD13	1.39	1.04
1:J:70:PHE:C	1:J:76:SER:HB3	1.82	1.04
1:K:666:ASN:HB3	1:K:940:MET:HE1	1.37	1.04
1:K:666:ASN:CB	1:K:940:MET:HE2	1.84	1.04
1:L:1218:LYS:NZ	2:d:184:ALA:CA	2.19	1.04

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:290:GLN:O	1:O:294:LYS:CE	2.06	1.04
1:P:756:ILE:HD11	1:P:906:THR:CG2	1.87	1.04
2:Q:105:PRO:HG3	2:Q:186:LEU:HD11	1.06	1.04
2:W:106:VAL:CG1	2:W:305:VAL:CG1	2.31	1.04
3:Y:300:LEU:HD21	3:Y:332:SER:HB2	1.37	1.04
2:a:103:THR:O	2:a:141:VAL:HG13	1.57	1.04
4:p:22:MET:CE	4:p:60:ALA:CB	2.34	1.04
4:s:24:GLY:O	4:s:28:ALA:HB3	1.52	1.04
4:t:24:GLY:O	4:t:28:ALA:HB3	1.52	1.04
1:D:29:VAL:HG11	1:L:120:MET:HE1	1.39	1.04
1:I:579:ASN:O	1:I:582:LEU:HD11	1.48	1.04
1:K:501:MET:CE	1:K:958:LEU:HD11	1.87	1.04
1:O:1277:PHE:O	1:O:1278:THR:OG1	1.76	1.04
1:P:488:GLY:HA3	1:P:520:TRP:CH2	1.93	1.04
1:P:752:ARG:HH11	1:P:913:ALA:HB1	1.20	1.04
3:Y:210:HIS:NE2	3:Y:442:PHE:HB2	1.73	1.04
4:f:46:THR:HG21	4:f:50:VAL:HG11	1.35	1.04
4:i:46:THR:HG21	4:i:50:VAL:HG11	1.35	1.04
4:m:46:THR:HG21	4:m:50:VAL:HG11	1.35	1.04
1:G:494:PRO:HD2	1:G:755:ARG:NH1	1.72	1.03
1:G:1166:PHE:CE1	2:Q:280:ALA:HB3	1.90	1.03
1:A:834:ARG:CG	4:h:94:LEU:CB	2.36	1.03
1:D:248:LEU:HD21	1:D:293:LEU:HD23	1.26	1.03
1:E:29:VAL:O	1:E:29:VAL:CG1	2.03	1.03
1:H:837:ALA:CB	4:m:54:LEU:HD21	1.86	1.03
1:I:947:HIS:CB	1:J:638:GLU:OE2	2.05	1.03
1:M:1161:GLN:CB	1:M:1162:PRO:HD2	1.88	1.03
1:N:203:ARG:NH2	1:N:222:GLU:CD	2.16	1.03
1:N:738:ASP:HB3	1:N:787:THR:HG21	1.37	1.03
1:O:840:GLN:CD	4:s:58:ALA:HB2	1.81	1.03
4:j:46:THR:HG21	4:j:50:VAL:HG11	1.35	1.03
4:k:24:GLY:O	4:k:28:ALA:HB3	1.52	1.03
1:G:263:ARG:HG3	1:G:264:LEU:HD13	1.34	1.03
1:G:367:LEU:HB3	1:G:374:LEU:HD11	1.37	1.03
1:A:322:MET:H	1:A:326:VAL:HB	1.24	1.03
1:I:947:HIS:HB2	1:J:638:GLU:OE2	1.57	1.03
1:J:1256:LEU:HA	1:J:1263:LEU:HD23	1.07	1.03
1:L:476:VAL:HG13	1:L:571:ILE:HD11	1.38	1.03
1:M:266:HIS:HB3	1:M:304:VAL:CG2	1.88	1.03
2:a:68:ARG:HD3	3:b:337:ARG:CG	1.88	1.03
2:a:157:ALA:O	2:a:160:ILE:HG12	1.58	1.03

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:b:292:ALA:HB1	3:b:295:ASP:CA	1.81	1.03
3:b:292:ALA:HB1	3:b:295:ASP:OD1	1.57	1.03
3:e:318:GLN:OE1	3:e:352:ILE:HG23	1.57	1.03
4:l:9:PRO:HB3	4:l:18:ARG:O	1.59	1.03
1:G:1166:PHE:CD2	2:Q:281:HIS:HA	1.91	1.03
1:A:357:ALA:C	1:A:359:GLN:NE2	2.15	1.03
1:A:395:VAL:HG23	1:A:1116:ARG:NH2	1.74	1.03
1:B:445:LYS:HD2	1:B:1118:PRO:HG2	1.41	1.03
1:C:837:ALA:HA	4:i:54:LEU:HD21	1.06	1.03
1:D:36:PHE:CZ	1:L:120:MET:SD	2.50	1.03
1:E:419:HIS:CD2	1:F:421:GLY:O	2.10	1.03
1:F:788:GLN:N	1:F:788:GLN:OE1	1.89	1.03
1:L:488:GLY:N	1:L:520:TRP:HH2	1.56	1.03
1:M:1225:LEU:CD2	1:N:1176:GLY:HA3	1.89	1.03
1:N:533:GLN:O	1:N:535:ASP:N	1.89	1.03
1:N:1229:HIS:NE2	1:N:1241:THR:CG2	2.21	1.03
3:V:39:PRO:HB2	3:V:41:ILE:HD11	1.39	1.03
3:b:235:VAL:HG21	3:b:325:CYS:SG	1.97	1.03
3:b:292:ALA:HB3	3:b:295:ASP:C	1.81	1.03
3:b:299:GLU:OE1	3:b:330:VAL:CG2	2.05	1.03
4:f:15:ASP:CB	4:f:28:ALA:HB1	1.89	1.03
4:g:24:GLY:O	4:g:28:ALA:HB3	1.52	1.03
4:l:24:GLY:O	4:l:28:ALA:HB3	1.52	1.03
4:m:24:GLY:O	4:m:28:ALA:HB3	1.52	1.03
4:r:24:GLY:O	4:r:28:ALA:HB3	1.52	1.03
1:G:418:ALA:HB1	1:G:1354:ARG:HH21	0.86	1.03
1:C:403:VAL:HG23	1:C:1331:ALA:HB1	1.37	1.03
1:D:956:TYR:OH	1:D:958:LEU:HD11	1.26	1.03
1:E:77:VAL:CB	1:E:266:HIS:CE1	2.41	1.03
1:E:837:ALA:HB1	4:l:94:LEU:O	1.58	1.03
1:F:1085:THR:HG21	1:F:1090:ASN:ND2	1.56	1.03
1:K:501:MET:HE2	1:K:958:LEU:HD11	1.33	1.03
1:K:784:LEU:CD1	1:K:903:GLU:OE1	2.05	1.03
1:L:756:ILE:HD11	1:L:760:GLY:O	1.58	1.03
1:M:837:ALA:HA	4:f:54:LEU:CD2	1.87	1.03
1:M:837:ALA:CA	4:f:54:LEU:HD21	1.88	1.03
2:Q:180:TYR:HA	2:Q:185:ARG:HA	1.40	1.03
2:Q:227:LEU:HD12	2:Q:228:LEU:HD13	1.32	1.03
2:T:114:VAL:HG11	2:T:291:LEU:HB3	1.36	1.03
3:V:275:HIS:HD2	3:V:280:GLY:CA	1.70	1.03
2:W:230:LEU:CB	2:X:164:ASN:O	2.06	1.03

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Y:238:HIS:HE1	3:Y:416:THR:HG21	1.14	1.03
2:a:23:ALA:HA	2:a:26:ARG:CZ	1.89	1.03
3:b:278:HIS:CB	3:b:279:PRO:HD3	1.88	1.03
3:b:292:ALA:CB	3:b:295:ASP:H	1.71	1.03
4:p:15:ASP:CB	4:p:28:ALA:HB1	1.89	1.03
1:A:269:THR:CG2	1:A:300:ALA:CA	2.37	1.03
1:C:756:ILE:CD1	1:C:906:THR:HG22	1.88	1.03
1:J:75:LEU:CA	1:J:277:VAL:HG11	1.89	1.03
1:L:530:GLN:HG3	1:L:536:ASN:HD21	1.22	1.03
1:L:837:ALA:HA	4:q:54:LEU:HD21	1.04	1.03
1:M:867:PRO:HB3	4:r:80:ALA:HB3	1.39	1.03
2:Q:228:LEU:HD21	2:Q:241:LEU:CB	1.89	1.03
3:Y:292:ALA:CB	3:Y:295:ASP:H	1.72	1.03
2:a:29:GLY:CA	2:a:101:ARG:HB2	1.89	1.03
3:b:188:ASN:HD21	3:b:207:VAL:HG13	1.19	1.03
2:c:228:LEU:HD21	2:c:241:LEU:CB	1.89	1.03
4:g:35:ILE:HA	4:g:36:MET:SD	1.99	1.03
4:j:22:MET:HE3	4:j:60:ALA:HB3	1.11	1.03
4:k:35:ILE:HA	4:k:36:MET:SD	1.99	1.03
4:l:7:HIS:HE1	4:l:44:HIS:CE1	1.45	1.03
4:q:15:ASP:CB	4:q:28:ALA:HB1	1.89	1.03
1:A:889:PRO:HD3	4:g:69:ALA:CB	1.87	1.02
1:B:1054:ARG:CZ	1:B:1123:GLY:H	1.72	1.02
1:H:129:LEU:CD1	1:H:1097:ARG:HE	1.71	1.02
1:H:758:ALA:HB3	1:H:781:GLY:HA2	1.37	1.02
1:H:1056:ASP:OD1	1:H:1120:THR:HG21	1.59	1.02
1:I:509:TRP:CZ2	1:I:564:PRO:HD3	1.93	1.02
1:I:946:ASP:OD1	1:J:677:TYR:CE1	2.12	1.02
1:K:441:PHE:CZ	1:K:451:ARG:HD3	1.92	1.02
1:M:553:VAL:CG2	1:M:556:VAL:CG1	2.36	1.02
1:N:200:PRO:HA	1:N:203:ARG:NH1	1.74	1.02
1:N:764:VAL:O	1:N:765:TYR:HD1	1.41	1.02
1:O:266:HIS:HB2	1:O:303:PRO:HA	1.37	1.02
2:T:227:LEU:HD11	2:T:228:LEU:HD12	1.39	1.02
2:Z:223:LEU:CD1	2:Z:271:LEU:CB	2.24	1.02
2:a:28:GLU:O	2:a:101:ARG:HD2	1.59	1.02
4:o:7:HIS:HE1	4:o:44:HIS:CE1	1.45	1.02
1:G:1077:GLN:O	1:G:1079:GLN:NE2	1.91	1.02
1:B:1198:TYR:OH	1:B:1204:ASN:O	1.76	1.02
1:C:795:ALA:HB3	1:C:800:HIS:CE1	1.94	1.02
1:H:759:GLY:N	1:H:779:ASN:O	1.91	1.02

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:272:ARG:CD	1:J:374:LEU:HD22	1.88	1.02
1:J:921:ALA:HA	1:J:1139:LEU:CD2	1.89	1.02
1:J:1198:TYR:CD1	1:J:1236:ARG:NH1	2.27	1.02
1:L:756:ILE:CD1	1:L:760:GLY:O	2.06	1.02
1:L:1218:LYS:NZ	2:d:184:ALA:HA	1.74	1.02
1:M:47:ASN:OD1	3:Y:276:THR:HB	1.58	1.02
1:M:530:GLN:C	1:M:536:ASN:HD22	1.68	1.02
1:M:1201:ARG:HG2	1:M:1202:PRO:HD2	1.41	1.02
1:N:95:VAL:O	1:N:121:THR:O	1.75	1.02
3:S:300:LEU:HD22	3:S:332:SER:HB3	1.40	1.02
3:Y:210:HIS:CD2	3:Y:442:PHE:HB2	1.93	1.02
3:b:124:ALA:HB2	3:b:214:ASN:O	1.59	1.02
4:i:35:ILE:HA	4:i:36:MET:SD	1.99	1.02
4:j:15:ASP:CB	4:j:28:ALA:HB1	1.89	1.02
4:j:35:ILE:HA	4:j:36:MET:SD	1.99	1.02
4:j:92:PHE:HA	4:j:102:VAL:CB	1.89	1.02
4:m:35:ILE:HA	4:m:36:MET:SD	2.00	1.02
4:r:46:THR:HG21	4:r:50:VAL:HG13	1.41	1.02
4:s:9:PRO:C	4:s:17:VAL:CB	2.31	1.02
4:s:35:ILE:HA	4:s:36:MET:SD	2.00	1.02
1:G:409:PHE:HE2	1:G:415:ARG:NH1	1.57	1.02
1:C:302:VAL:CG1	1:C:360:THR:HB	1.88	1.02
1:E:956:TYR:HE1	1:E:958:LEU:CD1	1.72	1.02
1:E:956:TYR:HE1	1:E:958:LEU:CG	1.72	1.02
1:H:1115:VAL:HG22	1:H:1115:VAL:O	1.57	1.02
1:J:915:ASP:CB	1:J:1030:LYS:NZ	2.22	1.02
1:K:124:ILE:HD12	1:L:58:LEU:HD22	1.40	1.02
1:K:778:ARG:HD3	1:K:903:GLU:HG3	1.37	1.02
1:M:1115:VAL:CB	1:M:1374:LEU:HD21	1.90	1.02
1:N:840:GLN:HE22	4:r:58:ALA:HB2	1.09	1.02
1:O:889:PRO:CD	4:s:69:ALA:HB1	1.89	1.02
1:P:267:ALA:CB	1:P:274:VAL:O	2.07	1.02
1:P:1229:HIS:NE2	1:P:1241:THR:HG21	1.73	1.02
2:Q:227:LEU:HD11	2:Q:228:LEU:HD12	1.39	1.02
2:R:13:PRO:HD3	2:R:43:LEU:HD22	1.03	1.02
3:V:292:ALA:CB	3:V:295:ASP:H	1.72	1.02
4:f:9:PRO:CA	4:f:17:VAL:CB	2.36	1.02
4:h:35:ILE:HA	4:h:36:MET:SD	2.00	1.02
4:s:16:ASN:HA	4:s:20:LEU:HD11	1.42	1.02
4:s:46:THR:HG21	4:s:50:VAL:HG13	1.41	1.02
4:t:15:ASP:CB	4:t:28:ALA:HB1	1.89	1.02

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:t:35:ILE:HA	4:t:36:MET:SD	1.99	1.02
1:A:357:ALA:CA	1:A:359:GLN:HE22	1.73	1.02
1:B:452:LEU:HD23	1:B:456:ASN:ND2	1.73	1.02
1:D:1054:ARG:HH12	1:D:1123:GLY:HA2	0.90	1.02
1:E:17:MET:O	1:H:349:GLU:OE2	1.76	1.02
1:H:363:VAL:HG12	1:H:363:VAL:O	1.56	1.02
1:I:1225:LEU:CD2	1:I:1234:PRO:HG3	1.89	1.02
1:I:1237:PRO:CB	1:J:1156:ARG:HH22	1.71	1.02
3:S:168:SER:O	3:S:223:ARG:HG2	1.58	1.02
2:Z:114:VAL:HG11	2:Z:291:LEU:HB3	1.37	1.02
2:Z:178:VAL:O	2:Z:186:LEU:O	1.78	1.02
3:b:189:PHE:HA	3:b:211:ILE:HD12	1.06	1.02
3:e:136:HIS:HB3	3:e:138:THR:CG2	1.89	1.02
4:g:7:HIS:HE1	4:g:44:HIS:CE1	1.45	1.02
4:g:15:ASP:CB	4:g:28:ALA:HB1	1.89	1.02
4:h:15:ASP:CB	4:h:28:ALA:HB1	1.89	1.02
4:j:46:THR:HG21	4:j:50:VAL:HG13	1.41	1.02
4:n:24:GLY:O	4:n:28:ALA:HB3	1.52	1.02
4:o:15:ASP:CB	4:o:28:ALA:HB1	1.89	1.02
4:p:35:ILE:HA	4:p:36:MET:SD	1.99	1.02
4:p:90:PRO:CB	4:p:103:VAL:CB	2.38	1.02
1:C:917:GLY:HA3	1:C:1034:VAL:HG21	1.42	1.02
1:C:1206:ARG:HB2	1:C:1277:PHE:CE1	1.95	1.02
1:D:270:ARG:HH22	1:D:298:THR:CG2	1.70	1.02
1:F:933:LEU:HD21	1:F:958:LEU:HD23	1.06	1.02
1:I:1223:ILE:CG2	1:I:1223:ILE:O	2.03	1.02
1:O:439:GLN:NE2	1:O:451:ARG:HD2	1.73	1.02
1:O:534:PRO:CB	1:P:1154:GLY:CA	1.90	1.02
3:S:167:ALA:HB3	3:S:226:ARG:HG3	1.36	1.02
3:V:437:HIS:HB2	3:V:449:VAL:HG12	1.42	1.02
2:W:227:LEU:HD11	2:W:228:LEU:HD12	1.39	1.02
3:Y:438:ARG:HA	3:Y:448:PRO:CA	1.89	1.02
3:b:292:ALA:HB1	3:b:295:ASP:CG	1.82	1.02
3:e:318:GLN:OE1	3:e:352:ILE:CG2	2.08	1.02
4:h:46:THR:HG21	4:h:50:VAL:HG13	1.42	1.02
4:i:15:ASP:CB	4:i:28:ALA:HB1	1.89	1.02
4:k:15:ASP:CB	4:k:28:ALA:HB1	1.89	1.02
4:l:15:ASP:CB	4:l:28:ALA:HB1	1.89	1.02
4:n:46:THR:HG21	4:n:50:VAL:HG13	1.42	1.02
4:p:7:HIS:HE1	4:p:44:HIS:CE1	1.46	1.02
4:q:35:ILE:HA	4:q:36:MET:SD	1.99	1.02

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:r:15:ASP:CB	4:r:28:ALA:HB1	1.89	1.02
4:r:35:ILE:HA	4:r:36:MET:SD	1.99	1.02
1:G:295:VAL:CG2	1:G:369:ALA:H	1.72	1.01
1:E:867:PRO:HB3	4:l:80:ALA:HB3	1.42	1.01
1:I:1218:LYS:CD	1:J:1173:ARG:HH22	1.71	1.01
1:J:81:CYS:HB2	1:J:306:TYR:CE1	1.94	1.01
1:L:403:VAL:HG23	1:L:1331:ALA:HB1	1.41	1.01
1:L:768:ALA:N	1:L:786:ASN:HD22	1.58	1.01
1:O:740:ASP:N	1:O:785:HIS:CE1	2.27	1.01
1:P:241:ARG:HA	1:P:292:PHE:HE1	1.22	1.01
2:R:129:ARG:HD3	2:R:136:THR:HG22	1.23	1.01
3:S:143:LEU:HD12	3:S:239:VAL:HG22	1.04	1.01
2:T:228:LEU:HD21	2:T:241:LEU:CB	1.89	1.01
2:W:228:LEU:HD21	2:W:241:LEU:CB	1.89	1.01
4:f:79:PHE:CB	4:f:88:LEU:HD23	1.90	1.01
4:n:35:ILE:HA	4:n:36:MET:SD	1.99	1.01
1:A:1276:PHE:HE1	1:A:1329:GLN:HG3	0.90	1.01
1:B:956:TYR:OH	1:B:958:LEU:HD11	1.60	1.01
1:C:121:THR:HG22	1:M:38:PHE:HB3	1.39	1.01
1:E:842:MET:HG2	4:k:61:LEU:HD21	1.42	1.01
1:F:918:ALA:HB2	1:F:1032:SER:HB2	1.38	1.01
1:H:272:ARG:HD3	1:H:374:LEU:CD1	1.91	1.01
1:I:956:TYR:HE1	1:I:958:LEU:CD1	1.71	1.01
1:J:1186:GLU:OE2	1:J:1271:SER:HA	1.61	1.01
1:J:1337:ALA:HA	1:J:1362:LEU:HA	1.41	1.01
1:K:867:PRO:HB3	4:q:80:ALA:HB3	1.42	1.01
1:L:1131:LEU:HD11	1:L:1157:LEU:HD13	1.42	1.01
1:N:1165:VAL:HG12	3:V:140:LEU:HD13	1.32	1.01
3:Y:300:LEU:HG	3:Y:332:SER:CB	1.90	1.01
3:Y:317:ARG:O	3:Y:323:GLU:HA	1.60	1.01
3:e:292:ALA:CB	3:e:295:ASP:H	1.72	1.01
3:e:316:TYR:HD2	3:e:419:TYR:CA	1.71	1.01
3:e:317:ARG:O	3:e:323:GLU:HA	1.60	1.01
4:m:15:ASP:CB	4:m:28:ALA:HB1	1.89	1.01
4:o:35:ILE:HA	4:o:36:MET:SD	1.99	1.01
4:s:16:ASN:CB	4:s:20:LEU:HD12	1.82	1.01
1:B:1229:HIS:CD2	1:B:1241:THR:CG2	2.43	1.01
1:D:889:PRO:HD3	4:j:69:ALA:HB1	1.37	1.01
1:D:1168:CYS:SG	1:D:1170:GLN:HG3	1.99	1.01
1:I:122:LYS:HZ1	1:L:35:LEU:HD13	1.23	1.01
1:I:842:MET:HE3	4:n:61:LEU:HD21	1.39	1.01

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:1225:LEU:HD22	1:I:1234:PRO:CG	1.91	1.01
1:J:914:PRO:CB	1:J:919:ASN:CB	2.37	1.01
1:L:840:GLN:CD	4:q:58:ALA:HB2	1.84	1.01
1:L:1086:GLY:HA3	2:W:99:ASN:HD21	0.85	1.01
1:M:1161:GLN:HB2	1:M:1162:PRO:HD2	1.04	1.01
1:O:71:LEU:HD21	1:O:306:TYR:CZ	1.95	1.01
1:O:530:GLN:C	1:O:536:ASN:HD22	1.66	1.01
3:S:164:LEU:HA	3:S:226:ARG:HB3	1.40	1.01
3:S:317:ARG:O	3:S:323:GLU:HA	1.61	1.01
3:b:292:ALA:HB2	3:b:295:ASP:CG	1.82	1.01
4:i:16:ASN:CB	4:i:20:LEU:HD23	1.91	1.01
4:l:35:ILE:HA	4:l:36:MET:SD	1.99	1.01
4:n:15:ASP:CB	4:n:28:ALA:HB1	1.89	1.01
4:s:46:THR:HG21	4:s:50:VAL:HG11	1.35	1.01
1:G:153:ILE:HG22	1:G:157:ARG:HD3	1.01	1.01
1:G:232:PHE:HA	1:G:1113:ALA:O	1.61	1.01
1:A:842:MET:HE3	4:g:61:LEU:HD11	1.42	1.01
1:B:25:SER:OG	1:B:64:THR:HG23	1.56	1.01
1:C:758:ALA:HB2	1:C:904:ARG:HH22	1.23	1.01
1:D:419:HIS:ND1	1:D:420:ALA:N	2.07	1.01
1:F:582:LEU:CD1	1:F:587:CYS:CB	2.34	1.01
1:J:184:MET:C	1:J:188:LEU:HG	1.84	1.01
1:J:279:VAL:HG21	1:J:1064:LEU:HB3	1.01	1.01
1:K:248:LEU:HD23	1:K:293:LEU:HD23	1.42	1.01
1:L:867:PRO:HB3	4:f:80:ALA:HB3	1.39	1.01
1:N:298:THR:OG1	1:N:367:LEU:HD12	1.60	1.01
1:N:834:ARG:HG3	4:s:94:LEU:CB	1.90	1.01
1:N:1120:THR:HG21	1:N:1183:ALA:HB2	1.42	1.01
1:P:1116:ARG:HG2	1:P:1116:ARG:HH21	1.24	1.01
2:R:145:THR:CG2	2:R:293:PRO:CG	2.16	1.01
3:S:112:ARG:HH12	3:S:262:SER:HB2	0.85	1.01
3:Y:438:ARG:CA	3:Y:448:PRO:HA	1.91	1.01
2:d:99:ASN:HB3	2:d:311:MET:HE3	1.41	1.01
3:e:316:TYR:CD2	3:e:419:TYR:CA	2.43	1.01
4:f:46:THR:HG21	4:f:50:VAL:HG13	1.41	1.01
4:p:46:THR:HG21	4:p:50:VAL:HG13	1.42	1.01
4:q:7:HIS:HE1	4:q:44:HIS:CE1	1.45	1.01
1:A:109:PRO:HD3	3:S:255:VAL:HG11	1.03	1.01
1:B:846:GLU:OE2	4:h:67:THR:OG1	1.79	1.01
1:B:1316:GLY:CA	3:S:260:LEU:CD1	2.34	1.01
1:C:90:MET:O	1:D:54:PHE:O	1.78	1.01

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:120:MET:SD	1:I:36:PHE:CE2	2.54	1.01
1:D:768:ALA:HA	1:D:786:ASN:HD21	1.21	1.01
1:E:889:PRO:HD3	4:k:69:ALA:HB1	1.04	1.01
1:F:867:PRO:HB3	4:g:80:ALA:HB3	1.43	1.01
1:H:129:LEU:HD12	1:H:1097:ARG:HE	1.26	1.01
1:J:268:ASP:N	1:J:301:ASP:HB2	1.75	1.01
1:J:402:PHE:CB	1:J:1332:TYR:O	2.08	1.01
1:J:840:GLN:HE22	4:o:58:ALA:HB2	0.85	1.01
1:K:421:GLY:O	1:P:419:HIS:CD2	2.14	1.01
1:K:530:GLN:HA	1:K:536:ASN:ND2	1.75	1.01
1:K:956:TYR:HE1	1:K:958:LEU:HB2	1.23	1.01
1:L:1218:LYS:NZ	2:d:184:ALA:HB1	1.70	1.01
1:L:1218:LYS:HZ1	2:d:184:ALA:CA	1.72	1.01
1:M:759:GLY:HA2	1:M:779:ASN:O	1.61	1.01
3:S:292:ALA:CB	3:S:295:ASP:H	1.72	1.01
3:V:39:PRO:HD2	3:V:41:ILE:O	1.61	1.01
2:Z:104:SER:HB3	2:Z:105:PRO:HD3	1.41	1.01
4:f:35:ILE:HA	4:f:36:MET:SD	2.00	1.01
4:m:46:THR:HG21	4:m:50:VAL:HG13	1.41	1.01
4:o:46:THR:HG21	4:o:50:VAL:HG13	1.41	1.01
1:D:1248:GLN:O	1:D:1251:SER:OG	1.78	1.00
1:E:30:ALA:O	1:E:33:ARG:CB	2.07	1.00
1:F:767:ALA:O	1:F:786:ASN:CB	2.07	1.00
1:H:1218:LYS:CE	1:I:1173:ARG:HH12	1.69	1.00
1:I:86:GLU:HB2	1:I:89:TYR:HD2	1.24	1.00
1:I:874:THR:HG23	1:I:877:ALA:H	1.26	1.00
1:L:290:GLN:O	1:L:294:LYS:HE2	1.60	1.00
1:M:210:LEU:O	1:M:210:LEU:HD23	1.61	1.00
1:N:1163:LEU:HD21	1:N:1169:ALA:HB2	1.01	1.00
1:N:1165:VAL:CG1	3:V:140:LEU:HD13	1.61	1.00
3:V:81:ASP:O	3:V:85:GLN:CG	2.09	1.00
2:a:35:PRO:CG	2:a:70:ARG:HH12	1.49	1.00
4:i:79:PHE:CB	4:i:88:LEU:HD23	1.90	1.00
1:G:819:ALA:O	1:G:822:ARG:CD	2.09	1.00
1:G:822:ARG:CZ	1:G:1020:LEU:CD2	2.38	1.00
1:A:35:LEU:H	1:A:35:LEU:HD12	1.25	1.00
1:B:956:TYR:HE1	1:B:958:LEU:CD1	1.57	1.00
1:H:519:ARG:HG3	1:H:998:TYR:OH	1.61	1.00
1:H:533:GLN:N	1:H:534:PRO:HD2	1.75	1.00
1:H:1061:GLU:OE2	1:H:1116:ARG:NH2	1.94	1.00
1:I:268:ASP:H	1:I:274:VAL:HG23	1.22	1.00

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:956:TYR:CD1	1:I:958:LEU:HG	1.96	1.00
1:J:229:ASP:O	1:J:236:LYS:NZ	1.94	1.00
1:J:400:LEU:HD23	1:J:1368:PRO:CD	1.92	1.00
1:J:529:GLU:CA	1:J:532:MET:CE	2.29	1.00
1:J:778:ARG:HH12	1:J:782:ARG:HD2	1.23	1.00
1:J:1276:PHE:O	1:J:1277:PHE:HB2	1.58	1.00
1:M:1115:VAL:CG1	1:M:1374:LEU:HD21	1.91	1.00
1:P:234:LEU:HB3	1:P:1113:ALA:HB1	1.42	1.00
2:R:99:ASN:HB3	2:R:311:MET:HE3	1.41	1.00
2:X:145:THR:CG2	2:X:293:PRO:CG	2.16	1.00
3:Y:251:LEU:CD2	3:Y:254:TRP:CZ3	2.44	1.00
3:b:197:ALA:O	3:b:324:LEU:HD21	1.58	1.00
4:g:46:THR:HG21	4:g:50:VAL:HG13	1.41	1.00
4:n:79:PHE:CB	4:n:88:LEU:HD23	1.90	1.00
4:t:46:THR:HG21	4:t:50:VAL:HG13	1.41	1.00
1:G:817:VAL:O	1:G:821:SER:OG	1.79	1.00
1:G:1299:ALA:CB	1:G:1321:VAL:HB	1.90	1.00
1:I:837:ALA:HA	4:n:54:LEU:CD2	1.90	1.00
1:I:1348:ASP:OD2	1:I:1352:HIS:NE2	1.81	1.00
1:J:1256:LEU:HD23	1:J:1263:LEU:HD23	1.04	1.00
1:K:1274:PHE:O	1:K:1278:THR:HG21	1.59	1.00
1:M:47:ASN:HD21	3:Y:276:THR:CB	1.74	1.00
1:O:842:MET:HE3	4:s:61:LEU:HD11	1.01	1.00
3:V:317:ARG:O	3:V:323:GLU:HA	1.61	1.00
2:X:99:ASN:HB3	2:X:311:MET:HE3	1.41	1.00
2:a:161:ARG:NE	2:a:173:LEU:CD2	2.24	1.00
3:b:251:LEU:CD2	3:b:254:TRP:CZ3	2.44	1.00
4:k:79:PHE:CB	4:k:88:LEU:HD23	1.91	1.00
1:G:323:GLY:C	1:G:326:VAL:HG12	1.86	1.00
1:C:467:MET:CE	1:C:1033:PRO:HD3	1.92	1.00
1:J:707:PHE:CG	1:J:1044:LEU:HD23	1.97	1.00
1:K:842:MET:CE	4:p:61:LEU:HD11	1.90	1.00
2:Z:272:TYR:CZ	2:a:160:ILE:HG22	1.96	1.00
3:b:424:GLU:O	3:b:459:PRO:O	1.79	1.00
1:H:841:ASN:HB2	4:m:57:GLN:NE2	1.75	1.00
1:J:402:PHE:CD1	1:J:1334:ILE:HG23	1.95	1.00
1:O:553:VAL:CG2	1:O:556:VAL:CG2	2.39	1.00
1:A:263:ARG:C	1:A:264:LEU:CD1	2.34	1.00
1:A:1067:GLU:CG	1:A:1107:THR:HG23	1.91	1.00
1:H:841:ASN:CB	4:m:57:GLN:NE2	2.25	1.00
4:g:21:GLY:O	4:g:23:ARG:O	1.80	1.00

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:o:79:PHE:CB	4:o:88:LEU:HD23	1.90	1.00
4:q:79:PHE:CB	4:q:88:LEU:HD23	1.90	1.00
1:A:224:LYS:HZ1	1:A:1330:GLU:CD	1.70	1.00
1:C:124:ILE:CD1	1:D:58:LEU:CD1	2.39	1.00
1:J:750:ARG:O	1:J:912:ALA:CA	2.09	1.00
1:L:1316:GLY:HA3	3:Y:179:CYS:HB2	1.43	1.00
1:M:920:THR:HG22	1:M:1138:LEU:HA	1.44	1.00
1:O:837:ALA:HA	4:s:54:LEU:HD21	1.01	1.00
3:S:251:LEU:CD2	3:S:254:TRP:CZ3	2.44	1.00
3:V:302:LEU:HD23	3:V:302:LEU:H	1.22	1.00
3:Y:315:THR:CG2	3:Y:347:PHE:HE2	1.75	1.00
4:g:79:PHE:CB	4:g:88:LEU:HD23	1.90	1.00
1:F:1085:THR:CG2	1:F:1090:ASN:HD21	1.75	0.99
1:K:740:ASP:OD1	1:K:785:HIS:HE1	1.45	0.99
1:L:83:LYS:HE2	1:L:1076:GLY:O	1.58	0.99
2:a:92:LEU:HD11	2:a:295:VAL:CG2	1.91	0.99
3:b:292:ALA:HB3	3:b:295:ASP:CA	1.88	0.99
3:e:251:LEU:CD2	3:e:254:TRP:CZ3	2.44	0.99
1:G:819:ALA:O	1:G:822:ARG:HD2	1.61	0.99
1:A:112:VAL:CG1	1:B:131:ALA:C	2.35	0.99
1:A:395:VAL:CG2	1:A:1116:ARG:HH22	1.73	0.99
1:J:738:ASP:HB2	1:J:785:HIS:HE1	1.03	0.99
1:M:889:PRO:HD3	4:f:69:ALA:CB	1.91	0.99
1:N:1161:GLN:HB2	1:N:1162:PRO:HD3	1.44	0.99
3:S:300:LEU:HD11	3:S:332:SER:HB2	1.37	0.99
3:e:300:LEU:HG	3:e:332:SER:CB	1.92	0.99
1:G:832:PHE:O	1:G:836:TYR:CD2	2.15	0.99
1:A:277:VAL:O	1:A:376:PHE:O	1.79	0.99
1:A:357:ALA:CB	1:A:359:GLN:NE2	2.25	0.99
1:A:846:GLU:OE2	4:g:67:THR:OG1	1.80	0.99
1:D:1054:ARG:HH12	1:D:1123:GLY:CA	1.75	0.99
1:F:752:ARG:HH21	1:F:752:ARG:HB2	1.27	0.99
1:F:768:ALA:CA	1:F:786:ASN:CB	2.40	0.99
1:H:889:PRO:CD	4:m:69:ALA:HB1	1.92	0.99
1:N:234:LEU:O	1:N:1113:ALA:O	1.79	0.99
1:O:321:VAL:O	1:P:12:ARG:HD2	1.62	0.99
1:P:426:ALA:HB3	1:P:429:HIS:CD2	1.96	0.99
3:V:39:PRO:CB	3:V:41:ILE:HD13	1.88	0.99
3:V:251:LEU:CD2	3:V:254:TRP:CZ3	2.44	0.99
2:d:12:ILE:HG21	2:d:16:ILE:HD13	1.38	0.99
4:i:46:THR:HG21	4:i:50:VAL:HG13	1.41	0.99

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:t:9:PRO:CA	4:t:17:VAL:CB	2.40	0.99
1:G:409:PHE:CE2	1:G:415:ARG:NH1	2.29	0.99
1:H:1115:VAL:O	1:H:1115:VAL:CG2	2.08	0.99
1:J:402:PHE:O	1:J:1054:ARG:N	1.95	0.99
1:O:766:ALA:CB	1:O:784:LEU:HD23	1.92	0.99
2:R:16:ILE:O	2:R:132:SER:OG	1.78	0.99
4:h:79:PHE:CB	4:h:88:LEU:HD23	1.90	0.99
4:s:7:HIS:HE1	4:s:44:HIS:CE1	1.46	0.99
1:A:106:ARG:HG2	1:A:106:ARG:HH11	1.26	0.99
1:C:114:GLN:HE21	1:M:43:ARG:CD	1.74	0.99
1:H:889:PRO:CD	4:m:69:ALA:CB	2.41	0.99
1:J:400:LEU:CD2	1:J:1369:LEU:CD2	2.40	0.99
1:M:207:ASN:ND2	1:N:390:VAL:O	1.94	0.99
1:N:842:MET:HG2	4:r:61:LEU:HD21	1.42	0.99
1:O:1225:LEU:HD11	1:O:1234:PRO:CG	1.92	0.99
1:P:241:ARG:NH1	1:P:291:SER:O	1.94	0.99
2:c:106:VAL:CG1	2:c:305:VAL:CG1	2.39	0.99
4:g:9:PRO:HA	4:g:17:VAL:CB	1.93	0.99
1:J:669:SER:O	1:J:673:TYR:CD2	2.15	0.99
1:N:433:ARG:HH22	1:N:1339:ASP:CG	1.70	0.99
1:N:1300:VAL:CG2	1:N:1318:ARG:HE	1.74	0.99
2:U:99:ASN:HB3	2:U:311:MET:HE3	1.41	0.99
4:h:22:MET:O	4:h:25:LEU:HB2	1.62	0.99
4:t:36:MET:SD	4:t:36:MET:N	2.36	0.99
1:G:418:ALA:CB	1:G:1354:ARG:NH2	2.21	0.99
1:H:530:GLN:CG	1:H:536:ASN:HD21	1.73	0.99
1:I:1166:PHE:HZ	2:W:284:GLN:CB	1.75	0.99
1:J:1045:HIS:CD2	1:J:1047:GLY:H	1.81	0.99
1:N:267:ALA:O	1:N:301:ASP:HB2	1.62	0.99
1:O:752:ARG:HD2	1:O:927:ARG:CZ	1.93	0.99
3:Y:238:HIS:HE1	3:Y:416:THR:CG2	1.76	0.99
3:b:140:LEU:HD12	3:b:158:ALA:HA	1.45	0.99
3:b:197:ALA:C	3:b:324:LEU:CD2	2.33	0.99
1:G:323:GLY:C	1:G:326:VAL:CG1	2.35	0.99
1:F:530:GLN:O	1:F:536:ASN:ND2	1.95	0.99
1:J:1054:ARG:NH1	1:J:1123:GLY:HA2	1.77	0.99
1:K:591:PHE:CZ	1:K:1045:HIS:HD2	1.81	0.99
1:N:883:ARG:HG3	1:O:680:GLY:HA3	1.45	0.99
1:O:1165:VAL:HG13	2:a:196:ALA:HB1	1.01	0.99
2:d:5:CYS:O	2:d:86:CYS:SG	2.21	0.99
4:m:36:MET:SD	4:m:36:MET:N	2.36	0.99

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:n:36:MET:SD	4:n:36:MET:N	2.36	0.99
4:o:36:MET:SD	4:o:36:MET:N	2.36	0.99
1:F:738:ASP:HB3	1:F:787:THR:OG1	1.63	0.99
1:M:834:ARG:HG3	4:r:94:LEU:CB	1.92	0.99
1:O:266:HIS:HB3	1:O:304:VAL:HG13	1.44	0.99
1:O:488:GLY:HA3	1:O:520:TRP:CH2	1.98	0.99
2:R:5:CYS:O	2:R:86:CYS:SG	2.21	0.99
3:S:278:HIS:O	3:S:285:ALA:HA	1.62	0.99
3:V:278:HIS:O	3:V:285:ALA:CA	2.11	0.99
4:k:46:THR:HG21	4:k:50:VAL:HG13	1.41	0.99
1:A:752:ARG:O	1:A:753:ASP:OD1	1.80	0.99
1:C:530:GLN:HG3	1:C:536:ASN:HD21	1.27	0.99
1:F:318:THR:O	1:F:322:MET:O	1.80	0.99
1:N:1206:ARG:HH11	1:N:1210:ALA:HB2	0.84	0.99
4:k:21:GLY:O	4:k:23:ARG:O	1.81	0.99
1:A:417:ALA:HB2	1:A:1358:PHE:CE1	1.98	0.98
1:B:241:ARG:O	1:B:242:GLU:CG	2.11	0.98
1:D:270:ARG:HH22	1:D:298:THR:HG21	1.28	0.98
1:I:1237:PRO:HB2	1:J:1156:ARG:HH22	0.84	0.98
1:J:921:ALA:HA	1:J:1139:LEU:HD21	1.00	0.98
1:K:1073:TYR:HH	1:K:1097:ARG:HH11	1.09	0.98
1:N:1163:LEU:CD2	1:N:1169:ALA:HB2	1.91	0.98
2:a:145:THR:CG2	2:a:293:PRO:CG	2.16	0.98
4:l:36:MET:SD	4:l:36:MET:N	2.36	0.98
4:q:36:MET:SD	4:q:36:MET:N	2.36	0.98
4:r:36:MET:SD	4:r:36:MET:N	2.36	0.98
1:G:739:CYS:SG	1:G:765:TYR:CD2	2.56	0.98
1:J:400:LEU:HD22	1:J:1369:LEU:CD2	1.92	0.98
1:O:530:GLN:CA	1:O:536:ASN:ND2	2.26	0.98
3:S:317:ARG:CB	3:S:324:LEU:HB2	1.93	0.98
2:a:92:LEU:CD2	2:a:98:VAL:HG13	1.93	0.98
4:g:36:MET:SD	4:g:36:MET:N	2.36	0.98
4:m:79:PHE:CB	4:m:88:LEU:HD23	1.90	0.98
4:q:46:THR:HG21	4:q:50:VAL:HG13	1.42	0.98
1:B:252:THR:HG23	1:B:373:ARG:HD3	1.42	0.98
1:H:267:ALA:HB1	1:H:274:VAL:N	1.77	0.98
1:J:840:GLN:NE2	4:o:58:ALA:CB	2.24	0.98
3:V:112:ARG:HH12	3:V:262:SER:HB2	0.85	0.98
3:Y:198:TYR:CE1	3:Y:294:VAL:CG1	2.45	0.98
3:Y:198:TYR:CZ	3:Y:294:VAL:CG1	2.46	0.98
2:a:93:THR:HA	2:a:316:ARG:NH2	1.78	0.98

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:e:317:ARG:CB	3:e:324:LEU:HB2	1.93	0.98
4:f:36:MET:SD	4:f:36:MET:N	2.36	0.98
4:i:36:MET:SD	4:i:36:MET:N	2.36	0.98
4:s:36:MET:SD	4:s:36:MET:N	2.36	0.98
1:J:1011:ARG:O	1:J:1012:GLU:HB3	1.63	0.98
1:K:523:GLU:OE1	1:K:584:LEU:HD12	1.62	0.98
2:a:73:ALA:CB	2:a:87:PRO:HA	1.94	0.98
4:g:10:SER:H	4:g:17:VAL:CB	1.75	0.98
1:A:403:VAL:HG23	1:A:1331:ALA:HB1	1.44	0.98
1:A:482:GLU:HA	1:A:569:GLY:H	1.27	0.98
1:B:919:ASN:O	1:B:920:THR:O	1.81	0.98
1:B:1200:ARG:O	1:B:1201:ARG:HG2	1.62	0.98
1:D:889:PRO:HD3	4:j:69:ALA:CB	1.92	0.98
1:I:1218:LYS:HD2	1:J:1173:ARG:HH22	1.20	0.98
1:K:1056:ASP:OD1	1:K:1120:THR:HG21	1.62	0.98
1:M:1225:LEU:HD23	1:N:1176:GLY:HA3	1.43	0.98
1:O:1057:ARG:O	1:O:1118:PRO:O	1.81	0.98
1:P:491:VAL:O	1:P:558:LEU:O	1.79	0.98
2:T:177:ASN:OD1	2:T:189:VAL:CG2	2.11	0.98
4:j:79:PHE:CB	4:j:88:LEU:HD23	1.90	0.98
4:p:99:SER:O	4:p:100:PRO:CB	2.10	0.98
4:s:19:ALA:O	4:s:20:LEU:CB	2.09	0.98
1:C:519:ARG:HH22	1:C:541:LEU:HB2	1.26	0.98
1:C:867:PRO:HB3	4:j:80:ALA:HB3	1.44	0.98
1:I:486:PRO:CG	1:I:564:PRO:HG3	1.91	0.98
1:I:752:ARG:HG3	1:I:927:ARG:HD2	1.42	0.98
1:N:840:GLN:CD	4:r:58:ALA:HB2	1.88	0.98
1:O:553:VAL:HG21	1:O:556:VAL:CG1	1.94	0.98
1:P:124:ILE:HG12	1:P:1100:VAL:HG23	1.45	0.98
2:W:177:ASN:HD22	2:W:189:VAL:CG2	1.75	0.98
3:Y:315:THR:CG2	3:Y:347:PHE:CE2	2.46	0.98
3:b:110:LEU:HD23	3:b:111:THR:N	1.79	0.98
4:p:36:MET:SD	4:p:36:MET:N	2.36	0.98
1:G:532:MET:HE2	1:G:534:PRO:CG	1.93	0.98
1:B:509:TRP:O	1:B:513:LEU:HB2	1.63	0.98
1:I:956:TYR:CE1	1:I:958:LEU:CG	2.24	0.98
1:I:1166:PHE:CZ	2:W:284:GLN:CB	2.46	0.98
1:J:1300:VAL:HG12	1:J:1318:ARG:HB3	1.45	0.98
1:K:1070:SER:CB	1:K:1107:THR:CG2	2.14	0.98
1:O:759:GLY:HA2	1:O:779:ASN:O	1.63	0.98
3:e:112:ARG:HH12	3:e:262:SER:HB2	0.85	0.98

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:905:THR:CG2	1:G:956:TYR:OH	2.12	0.98
1:H:363:VAL:O	1:H:363:VAL:CG1	2.12	0.98
1:P:134:SER:OG	1:P:1090:ASN:OD1	1.81	0.98
2:d:12:ILE:CG2	2:d:16:ILE:HD13	1.94	0.98
1:H:267:ALA:CB	1:H:274:VAL:H	1.77	0.98
1:H:443:TRP:CZ2	1:H:1347:ARG:CG	2.47	0.98
1:J:756:ILE:HD11	1:J:906:THR:CG2	1.93	0.98
2:X:5:CYS:O	2:X:86:CYS:SG	2.21	0.98
2:a:93:THR:CG2	2:a:316:ARG:HH21	1.77	0.98
3:b:318:GLN:HG2	3:b:416:THR:N	1.79	0.98
4:n:9:PRO:HA	4:n:17:VAL:CB	1.92	0.98
1:G:77:VAL:HG22	1:G:277:VAL:CG2	1.89	0.98
1:G:533:GLN:N	1:G:534:PRO:CD	2.24	0.98
1:I:1223:ILE:O	1:I:1223:ILE:HG22	1.64	0.98
1:J:575:TRP:CE2	1:J:918:ALA:HB1	1.98	0.98
1:M:269:THR:HG23	1:M:270:ARG:N	1.76	0.98
4:h:36:MET:SD	4:h:36:MET:N	2.36	0.98
4:p:9:PRO:HA	4:p:17:VAL:CB	1.93	0.98
1:C:834:ARG:CG	4:j:94:LEU:CB	2.42	0.97
1:D:837:ALA:HA	4:j:54:LEU:HD21	0.98	0.97
1:D:1241:THR:HG21	1:D:1247:SER:OG	1.62	0.97
1:K:268:ASP:CB	1:K:301:ASP:CB	2.41	0.97
1:N:189:LEU:HD12	1:N:1064:LEU:HD21	1.42	0.97
4:i:44:HIS:HB3	4:i:47:GLN:O	1.65	0.97
1:A:269:THR:CG2	1:A:300:ALA:HA	1.93	0.97
1:F:767:ALA:C	1:F:786:ASN:HB3	1.88	0.97
1:I:1166:PHE:CZ	2:W:284:GLN:HB3	1.99	0.97
1:O:488:GLY:N	1:O:520:TRP:HH2	1.62	0.97
1:P:293:LEU:C	1:P:295:VAL:HG23	1.88	0.97
3:S:300:LEU:HD21	3:S:332:SER:HA	1.03	0.97
3:V:39:PRO:CB	3:V:41:ILE:HD11	1.92	0.97
3:b:251:LEU:HD21	3:b:254:TRP:CE3	2.00	0.97
3:b:271:GLN:O	3:b:274:THR:HG23	1.64	0.97
4:k:44:HIS:HB3	4:k:47:GLN:O	1.65	0.97
1:G:628:TYR:HB3	1:G:955:PHE:CE2	1.99	0.97
1:G:1166:PHE:HD2	2:Q:281:HIS:CB	1.76	0.97
1:A:269:THR:HG22	1:A:300:ALA:HA	0.99	0.97
1:A:1114:THR:CG2	1:A:1115:VAL:N	2.27	0.97
1:H:305:THR:HG22	1:H:306:TYR:H	1.28	0.97
1:L:77:VAL:O	1:L:1068:ARG:O	1.81	0.97
1:L:486:PRO:HG2	1:L:564:PRO:HG2	1.45	0.97

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:1120:THR:CG2	1:N:1183:ALA:HB2	1.94	0.97
3:V:141:PRO:HB2	3:V:144:ALA:CB	1.94	0.97
3:Y:271:GLN:O	3:Y:274:THR:HG23	1.64	0.97
2:Z:94:HIS:NE2	3:b:459:PRO:HD3	1.78	0.97
2:Z:217:THR:O	2:Z:221:LEU:CD2	2.12	0.97
3:b:300:LEU:CD2	3:b:333:GLN:HG2	1.94	0.97
4:p:79:PHE:CB	4:p:88:LEU:HD23	1.90	0.97
1:G:1166:PHE:HE2	2:Q:281:HIS:HB2	1.22	0.97
1:F:443:TRP:CH2	1:F:1347:ARG:HD3	1.99	0.97
1:F:837:ALA:CA	4:l:54:LEU:HD21	1.94	0.97
1:I:532:MET:HG2	1:I:535:ASP:CB	1.94	0.97
1:P:1218:LYS:CG	1:P:1221:ASP:OD2	2.11	0.97
2:Q:160:ILE:CD1	2:Q:206:VAL:HG13	1.93	0.97
3:V:251:LEU:HD21	3:V:254:TRP:CE3	2.00	0.97
2:X:161:ARG:NH1	2:X:173:LEU:HB3	1.79	0.97
3:b:279:PRO:CB	3:b:283:CYS:O	2.12	0.97
3:b:290:ALA:HB3	3:b:296:LEU:CD2	1.95	0.97
4:h:44:HIS:HB3	4:h:47:GLN:O	1.65	0.97
4:k:36:MET:SD	4:k:36:MET:N	2.36	0.97
4:l:79:PHE:CB	4:l:88:LEU:HD21	1.95	0.97
4:s:15:ASP:CB	4:s:28:ALA:HB3	1.95	0.97
1:I:286:GLN:HA	1:I:289:LEU:HD21	1.45	0.97
1:I:752:ARG:HD2	1:I:927:ARG:CZ	1.93	0.97
1:K:439:GLN:HE21	1:K:451:ARG:NH1	1.62	0.97
1:N:1086:GLY:HA3	2:T:99:ASN:ND2	1.76	0.97
1:N:1206:ARG:NH1	1:N:1226:MET:HG3	1.80	0.97
1:N:1245:TRP:O	1:N:1252:TYR:O	1.82	0.97
1:O:439:GLN:HE22	1:O:451:ARG:NH2	1.58	0.97
2:U:5:CYS:O	2:U:86:CYS:SG	2.21	0.97
3:Y:302:LEU:H	3:Y:302:LEU:HD12	1.28	0.97
2:a:161:ARG:HB3	2:a:161:ARG:NH1	1.79	0.97
4:j:36:MET:SD	4:j:36:MET:N	2.36	0.97
4:n:44:HIS:HB3	4:n:47:GLN:O	1.65	0.97
4:q:44:HIS:HB3	4:q:47:GLN:O	1.65	0.97
1:B:768:ALA:HA	1:B:786:ASN:HD22	1.26	0.97
1:K:1070:SER:HB2	1:K:1107:THR:HG21	1.45	0.97
1:L:419:HIS:CD2	1:M:421:GLY:O	2.18	0.97
1:L:837:ALA:HB1	4:f:94:LEU:O	1.64	0.97
1:N:758:ALA:O	1:N:779:ASN:CB	2.12	0.97
1:P:1095:GLN:NE2	1:P:1097:ARG:HH21	1.63	0.97
2:Q:160:ILE:HD13	2:Q:206:VAL:CG1	1.92	0.97

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:V:317:ARG:CB	3:V:324:LEU:HB2	1.93	0.97
4:l:44:HIS:HB3	4:l:47:GLN:O	1.65	0.97
4:r:44:HIS:HB3	4:r:47:GLN:O	1.64	0.97
1:G:505:PHE:HE1	1:G:509:TRP:NE1	1.59	0.97
1:D:534:PRO:CB	1:E:1154:GLY:CA	2.29	0.97
1:J:367:LEU:CD2	1:J:376:PHE:CE1	2.48	0.97
1:J:1346:ALA:HB2	1:J:1353:ALA:HB1	1.43	0.97
1:K:278:LEU:HD23	1:K:377:LEU:HD13	1.46	0.97
1:L:193:PRO:HG3	1:L:1294:VAL:HG12	1.45	0.97
1:N:1057:ARG:NH1	1:N:1321:VAL:CG2	2.27	0.97
1:N:1229:HIS:NE2	1:N:1241:THR:HG21	1.79	0.97
1:O:77:VAL:HB	1:O:266:HIS:HE1	1.12	0.97
1:O:193:PRO:HG3	1:O:1294:VAL:HG12	1.45	0.97
3:b:112:ARG:CG	3:b:264:THR:HG22	1.94	0.97
4:p:44:HIS:HB3	4:p:47:GLN:O	1.65	0.97
1:D:1201:ARG:NH1	1:E:448:GLN:HE21	1.61	0.97
1:F:443:TRP:CH2	1:F:1347:ARG:CD	2.47	0.97
1:H:889:PRO:HD3	4:m:69:ALA:HB1	0.99	0.97
1:I:752:ARG:HD2	1:I:927:ARG:NE	1.80	0.97
1:L:274:VAL:HG22	1:L:374:LEU:CD2	1.95	0.97
1:O:51:ASP:CB	3:V:278:HIS:H	1.77	0.97
2:a:97:THR:HG22	2:a:315:ILE:CA	1.85	0.97
2:a:161:ARG:HD2	2:a:173:LEU:CB	1.95	0.97
4:g:44:HIS:HB3	4:g:47:GLN:O	1.65	0.97
4:m:9:PRO:HA	4:m:17:VAL:CB	1.94	0.97
1:D:417:ALA:HB2	1:D:1358:PHE:CE1	2.00	0.97
1:F:462:CYS:HB3	1:F:1037:TYR:CZ	1.99	0.97
1:H:269:THR:HG21	1:H:298:THR:HG21	1.00	0.97
1:K:433:ARG:NH2	1:K:1339:ASP:OD2	1.96	0.97
1:M:666:ASN:HB3	1:M:940:MET:CE	1.94	0.97
1:N:889:PRO:HD3	4:r:69:ALA:CB	1.95	0.97
4:j:79:PHE:CB	4:j:88:LEU:HD21	1.95	0.97
4:o:10:SER:N	4:o:17:VAL:CB	2.28	0.97
1:G:182:ASP:OD1	1:G:385:TYR:OH	1.81	0.97
1:A:206:ASP:O	1:A:207:ASN:ND2	1.98	0.97
1:C:804:ASP:OD1	1:C:808:HIS:HE1	1.43	0.97
1:K:124:ILE:HD13	1:L:58:LEU:CD2	1.95	0.97
1:N:837:ALA:HA	4:r:54:LEU:HD21	0.97	0.97
1:P:241:ARG:HA	1:P:292:PHE:CE1	1.99	0.97
2:Z:221:LEU:O	2:Z:225:PRO:CD	2.12	0.97
2:a:99:ASN:HB3	2:a:311:MET:HE3	1.46	0.97

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:f:44:HIS:HB3	4:f:47:GLN:O	1.65	0.97
4:l:79:PHE:CB	4:l:88:LEU:HD23	1.90	0.97
4:m:7:HIS:CG	4:m:52:GLU:CB	2.48	0.97
1:C:918:ALA:HB2	1:C:1032:SER:HB2	1.44	0.96
1:D:840:GLN:HE22	4:j:58:ALA:HB2	1.30	0.96
1:F:248:LEU:HG	1:F:293:LEU:CD2	1.93	0.96
1:I:837:ALA:HB2	4:n:54:LEU:HD21	0.98	0.96
1:J:71:LEU:C	1:J:76:SER:CB	2.38	0.96
1:J:437:PRO:HB3	1:J:1360:GLN:NE2	1.80	0.96
1:M:266:HIS:HB2	1:M:303:PRO:CA	1.94	0.96
1:O:501:MET:HE2	1:O:958:LEU:HD21	1.46	0.96
1:P:289:LEU:HD11	1:P:296:GLU:HG3	1.47	0.96
1:P:1218:LYS:HG2	1:P:1221:ASP:CG	1.89	0.96
4:k:99:SER:O	4:k:100:PRO:CB	2.12	0.96
1:G:321:VAL:O	1:G:322:MET:HE2	1.64	0.96
1:A:109:PRO:O	1:A:110:HIS:C	2.08	0.96
1:A:319:ALA:C	1:A:320:LEU:HD12	1.89	0.96
1:M:69:ARG:NH1	3:e:41:ILE:C	2.22	0.96
3:S:251:LEU:HD21	3:S:254:TRP:CE3	2.00	0.96
2:a:162:ASP:O	2:a:165:PRO:HB3	1.63	0.96
3:b:435:CYS:CB	3:b:437:HIS:HD2	1.67	0.96
4:j:44:HIS:HB3	4:j:47:GLN:O	1.65	0.96
4:k:79:PHE:CB	4:k:88:LEU:HD21	1.95	0.96
4:m:44:HIS:HB3	4:m:47:GLN:O	1.64	0.96
4:p:79:PHE:CB	4:p:88:LEU:HD21	1.95	0.96
4:t:17:VAL:H	4:t:20:LEU:HD12	1.30	0.96
1:G:740:ASP:OD1	1:G:799:PRO:CB	2.13	0.96
1:G:822:ARG:NH2	1:G:1010:ALA:O	1.97	0.96
1:G:1162:PRO:O	1:G:1164:PRO:HD3	1.63	0.96
1:O:840:GLN:OE1	4:s:58:ALA:CB	2.13	0.96
1:O:1266:ALA:CA	2:a:54:GLY:HA3	1.95	0.96
3:V:437:HIS:NE2	3:V:451:ILE:CD1	2.26	0.96
2:X:38:ARG:NE	3:Y:305:PRO:HG2	1.79	0.96
1:G:35:LEU:C	1:G:37:ASP:HA	1.90	0.96
1:A:465:SER:HA	1:A:468:ASN:ND2	1.81	0.96
1:F:889:PRO:HD3	4:l:69:ALA:CB	1.95	0.96
1:J:512:ARG:NH1	1:J:563:VAL:HG11	1.78	0.96
1:J:1271:SER:O	1:J:1273:CYS:N	1.97	0.96
1:J:1273:CYS:HB3	1:J:1277:PHE:CD2	1.99	0.96
1:L:1166:PHE:CB	3:Y:140:LEU:CD2	2.42	0.96
1:M:266:HIS:HB3	1:M:304:VAL:HG23	0.97	0.96

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:269:THR:CG2	1:M:270:ARG:H	1.79	0.96
1:O:842:MET:CE	4:s:61:LEU:HD11	1.95	0.96
1:P:752:ARG:NE	1:P:913:ALA:HB2	1.78	0.96
3:b:418:THR:CG2	3:b:419:TYR:H	1.78	0.96
4:p:7:HIS:CG	4:p:52:GLU:CB	2.48	0.96
4:t:7:HIS:HE1	4:t:44:HIS:CE1	1.45	0.96
1:E:1029:PHE:HB3	1:E:1039:GLN:HE22	1.29	0.96
1:I:873:ASN:OD1	4:o:92:PHE:CB	2.13	0.96
1:J:1342:LEU:CD2	1:J:1354:ARG:HG2	1.96	0.96
2:a:35:PRO:HB3	2:a:70:ARG:NH1	1.78	0.96
3:b:193:ALA:CB	3:b:231:LEU:CD1	2.41	0.96
3:e:285:ALA:O	3:e:286:VAL:HG23	1.65	0.96
1:A:1276:PHE:HE1	1:A:1329:GLN:CG	1.74	0.96
1:B:96:GLN:HB3	1:B:121:THR:HG22	1.47	0.96
1:C:302:VAL:HG12	1:C:360:THR:HB	0.96	0.96
1:D:35:LEU:CA	1:L:1291:ARG:NH2	2.27	0.96
1:D:266:HIS:HE1	1:D:376:PHE:HE2	0.98	0.96
1:E:837:ALA:HA	4:k:54:LEU:HD21	0.99	0.96
1:F:768:ALA:HA	1:F:786:ASN:HB3	1.45	0.96
1:I:837:ALA:CA	4:n:54:LEU:CD2	2.40	0.96
1:I:847:ILE:HG21	4:n:71:ASN:CA	1.94	0.96
1:O:1225:LEU:CD1	1:O:1234:PRO:HG3	1.95	0.96
2:Q:178:VAL:HG12	2:Q:180:TYR:CE1	1.98	0.96
3:V:299:GLU:HB3	3:V:332:SER:HB3	1.48	0.96
3:b:353:THR:OG1	3:b:416:THR:CG2	2.14	0.96
4:h:9:PRO:C	4:h:17:VAL:CB	2.39	0.96
4:n:7:HIS:CG	4:n:52:GLU:CB	2.48	0.96
1:G:153:ILE:CG2	1:G:157:ARG:CD	2.41	0.96
1:G:263:ARG:HG3	1:G:264:LEU:HD12	1.42	0.96
1:G:1182:ASP:HB2	1:G:1309:VAL:HA	1.46	0.96
1:F:1276:PHE:HE1	1:F:1329:GLN:HA	1.29	0.96
1:J:1256:LEU:HA	1:J:1263:LEU:CD2	1.95	0.96
1:M:666:ASN:CB	1:M:940:MET:HE3	1.95	0.96
1:M:945:LEU:O	1:M:945:LEU:HG	1.65	0.96
1:N:433:ARG:NH2	1:N:1339:ASP:CG	2.23	0.96
3:V:288:ILE:HG12	3:V:457:TRP:CZ2	2.01	0.96
3:b:292:ALA:HB1	3:b:295:ASP:H	1.00	0.96
4:f:29:THR:O	4:r:98:TYR:O	1.82	0.96
4:i:79:PHE:CB	4:i:88:LEU:HD21	1.95	0.96
4:l:7:HIS:CG	4:l:52:GLU:CB	2.48	0.96
4:o:7:HIS:CG	4:o:52:GLU:CB	2.49	0.96

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:q:7:HIS:CG	4:q:52:GLU:CB	2.48	0.96
1:J:279:VAL:HG22	1:J:1064:LEU:C	1.90	0.96
1:K:591:PHE:HZ	1:K:1045:HIS:HD2	1.02	0.96
1:M:530:GLN:CG	1:M:536:ASN:HD21	1.78	0.96
3:V:271:GLN:O	3:V:274:THR:HG23	1.64	0.96
3:V:320:ARG:CB	3:V:351:ARG:CD	2.43	0.96
4:h:90:PRO:CB	4:h:103:VAL:CB	2.43	0.96
4:s:96:ARG:NE	4:s:96:ARG:O	1.98	0.96
1:D:837:ALA:HB1	4:k:94:LEU:O	1.65	0.96
1:M:77:VAL:HG12	1:M:277:VAL:HG22	1.46	0.96
3:Y:251:LEU:HD21	3:Y:254:TRP:CE3	2.00	0.96
4:h:7:HIS:CG	4:h:52:GLU:CB	2.49	0.96
1:G:1173:ARG:CB	2:R:185:ARG:HB3	1.93	0.96
1:B:1315:PRO:C	3:S:260:LEU:HD21	1.91	0.96
1:N:1131:LEU:O	1:N:1169:ALA:HB3	1.64	0.96
3:Y:317:ARG:CB	3:Y:324:LEU:HB2	1.93	0.96
2:a:29:GLY:HA3	2:a:101:ARG:HB2	0.98	0.96
3:e:251:LEU:HD21	3:e:254:TRP:CE3	2.00	0.96
4:o:44:HIS:HB3	4:o:47:GLN:O	1.65	0.96
4:t:7:HIS:CG	4:t:52:GLU:CB	2.48	0.96
1:G:368:VAL:CG2	1:G:375:VAL:CG1	2.44	0.95
1:F:415:ARG:HH22	1:F:590:ALA:HB1	1.31	0.95
1:J:529:GLU:HA	1:J:532:MET:HE2	0.96	0.95
1:M:1206:ARG:NH2	1:M:1208:ARG:O	1.99	0.95
1:O:1067:GLU:HB3	1:O:1107:THR:HG23	1.43	0.95
1:D:119:TYR:CD2	1:I:13:TYR:OH	2.18	0.95
1:H:267:ALA:HB1	1:H:273:PRO:HA	1.45	0.95
1:I:530:GLN:CG	1:I:536:ASN:HD22	1.79	0.95
1:N:270:ARG:NH1	1:N:297:ASP:HA	1.81	0.95
1:P:1061:GLU:HB2	1:P:1114:THR:HG22	1.48	0.95
3:V:285:ALA:O	3:V:286:VAL:HG23	1.64	0.95
3:b:140:LEU:CD1	3:b:158:ALA:HA	1.95	0.95
4:j:7:HIS:CG	4:j:52:GLU:CB	2.48	0.95
4:k:22:MET:HE2	4:k:60:ALA:CB	1.96	0.95
4:q:79:PHE:CB	4:q:88:LEU:HD21	1.95	0.95
4:r:90:PRO:CB	4:r:105:ASP:O	2.14	0.95
1:B:1080:VAL:HA	1:B:1092:THR:O	1.65	0.95
1:I:829:GLY:HA3	1:I:956:TYR:CE2	2.01	0.95
1:L:1166:PHE:CB	3:Y:140:LEU:HD22	1.94	0.95
1:M:760:GLY:N	1:M:780:ASP:O	1.99	0.95
1:P:1229:HIS:NE2	1:P:1241:THR:CG2	2.29	0.95

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:147:LEU:HD12	2:Q:181:TYR:CD1	2.01	0.95
2:Z:272:TYR:CE1	2:a:160:ILE:CG2	2.49	0.95
2:a:71:PHE:CE2	3:b:309:PHE:HE1	1.84	0.95
4:f:79:PHE:CB	4:f:88:LEU:HD21	1.95	0.95
4:g:79:PHE:CB	4:g:88:LEU:HD21	1.95	0.95
4:i:7:HIS:HE1	4:i:44:HIS:CE1	1.45	0.95
4:s:10:SER:O	4:s:16:ASN:O	1.85	0.95
1:F:532:MET:HE2	1:F:534:PRO:HG2	1.46	0.95
1:J:1229:HIS:CD2	1:J:1241:THR:HG23	2.01	0.95
1:K:1135:ALA:HB2	1:K:1263:LEU:HD21	1.43	0.95
3:S:288:ILE:HG12	3:S:457:TRP:CZ2	2.01	0.95
3:e:288:ILE:HG12	3:e:457:TRP:CZ2	2.01	0.95
4:m:79:PHE:CB	4:m:88:LEU:HD21	1.95	0.95
1:B:917:GLY:O	1:B:1033:PRO:CD	2.15	0.95
1:C:837:ALA:CA	4:i:54:LEU:HD21	1.96	0.95
1:F:582:LEU:HD11	1:F:587:CYS:HB2	0.95	0.95
1:L:847:ILE:HG21	4:q:70:ASN:C	1.91	0.95
2:a:71:PHE:CE2	3:b:309:PHE:CE1	2.55	0.95
4:f:7:HIS:CG	4:f:52:GLU:CB	2.48	0.95
1:D:445:LYS:CD	1:D:1118:PRO:CB	2.43	0.95
1:H:867:PRO:HB3	4:n:80:ALA:HB3	1.49	0.95
1:L:837:ALA:CB	4:f:94:LEU:O	2.14	0.95
1:L:841:ASN:HB2	4:q:57:GLN:NE2	1.80	0.95
1:M:75:LEU:HD11	1:M:185:LEU:HD12	1.49	0.95
1:N:842:MET:CE	4:r:61:LEU:CD1	2.44	0.95
3:Y:109:HIS:ND1	3:Y:267:CYS:HB2	1.82	0.95
4:i:7:HIS:CG	4:i:52:GLU:CB	2.49	0.95
4:m:22:MET:HE2	4:m:60:ALA:CB	1.96	0.95
4:s:7:HIS:CG	4:s:52:GLU:CB	2.48	0.95
1:G:499:ALA:HB1	1:G:831:ARG:HH11	0.81	0.95
1:B:837:ALA:CA	4:h:54:LEU:HD21	1.95	0.95
1:C:110:HIS:O	2:X:40:GLN:NE2	1.98	0.95
1:H:842:MET:CG	4:m:61:LEU:CD2	2.45	0.95
1:I:90:MET:O	1:I:90:MET:HG3	1.63	0.95
1:O:759:GLY:O	1:O:779:ASN:O	1.82	0.95
1:P:736:VAL:O	1:P:934:HIS:O	1.83	0.95
2:a:97:THR:CG2	2:a:315:ILE:CG2	2.45	0.95
4:k:7:HIS:CG	4:k:52:GLU:CB	2.48	0.95
4:l:6:PHE:CB	4:l:10:SER:OG	2.15	0.95
4:r:7:HIS:CG	4:r:52:GLU:CB	2.48	0.95
1:C:756:ILE:HD11	1:C:906:THR:HG22	0.95	0.95

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:786:ASN:O	1:F:786:ASN:ND2	1.99	0.95
1:I:1218:LYS:HD2	1:J:1173:ARG:HH21	1.30	0.95
1:M:248:LEU:HD23	1:M:293:LEU:HD23	1.48	0.95
2:R:164:ASN:ND2	2:R:164:ASN:O	1.98	0.95
3:S:302:LEU:H	3:S:302:LEU:HD12	1.32	0.95
2:Z:223:LEU:CD1	2:Z:271:LEU:CD1	2.34	0.95
4:h:6:PHE:CB	4:h:10:SER:OG	2.15	0.95
4:h:79:PHE:CB	4:h:88:LEU:HD21	1.95	0.95
1:F:1197:ASN:ND2	1:F:1200:ARG:HH21	1.64	0.95
1:H:1218:LYS:HZ1	1:I:1173:ARG:CZ	1.67	0.95
1:I:302:VAL:CG2	1:I:362:ARG:HD2	1.97	0.95
1:I:463:HIS:CD2	1:I:464:PRO:HD2	2.01	0.95
1:J:1336:CYS:O	1:J:1363:ILE:N	1.99	0.95
1:J:1342:LEU:HD22	1:J:1354:ARG:CG	1.96	0.95
1:L:889:PRO:CD	4:q:69:ALA:CB	2.41	0.95
1:M:1115:VAL:CG1	1:M:1374:LEU:CD2	2.45	0.95
1:M:1342:LEU:O	1:M:1345:SER:OG	1.82	0.95
1:P:1218:LYS:O	1:P:1219:GLU:CB	2.08	0.95
2:Z:298:CYS:HB3	3:b:109:HIS:NE2	1.81	0.95
3:e:271:GLN:O	3:e:274:THR:HG23	1.64	0.95
3:e:300:LEU:HD13	3:e:333:GLN:CD	1.90	0.95
4:g:22:MET:HE2	4:g:60:ALA:CB	1.96	0.95
4:h:10:SER:N	4:h:17:VAL:CB	2.29	0.95
4:j:20:LEU:HD23	4:j:21:GLY:N	1.82	0.95
4:l:46:THR:HG21	4:l:50:VAL:HG13	1.41	0.95
4:m:6:PHE:CB	4:m:10:SER:OG	2.15	0.95
4:t:87:TRP:C	4:t:88:LEU:HD12	1.91	0.95
1:G:75:LEU:HD11	1:G:184:MET:HG2	1.46	0.95
1:G:1299:ALA:HB2	1:G:1321:VAL:HB	1.49	0.95
1:A:837:ALA:HA	4:g:54:LEU:CD2	1.96	0.95
1:C:298:THR:HG23	1:C:367:LEU:O	1.62	0.95
1:E:837:ALA:CB	4:l:94:LEU:O	2.13	0.95
1:F:764:VAL:O	1:F:765:TYR:CD1	2.20	0.95
1:H:915:ASP:OD1	1:H:918:ALA:HB3	1.67	0.95
1:H:1218:LYS:NZ	1:I:1173:ARG:NH2	1.93	0.95
1:J:275:ASP:OD2	1:J:373:ARG:HB3	1.67	0.95
1:J:512:ARG:HH12	1:J:563:VAL:HG11	1.29	0.95
1:K:481:VAL:HG12	1:K:482:GLU:H	1.30	0.95
1:O:766:ALA:HB3	1:O:784:LEU:CD2	1.96	0.95
4:i:22:MET:HE2	4:i:60:ALA:CB	1.96	0.95
4:k:6:PHE:CB	4:k:10:SER:OG	2.15	0.95

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:75:LEU:O	1:G:75:LEU:CD1	2.15	0.94
1:B:1229:HIS:CD2	1:B:1241:THR:HG23	2.01	0.94
1:D:1278:THR:O	1:D:1282:ILE:HD12	1.67	0.94
1:I:1166:PHE:HE1	2:W:284:GLN:HE21	1.00	0.94
1:J:367:LEU:HD21	1:J:376:PHE:HE1	1.30	0.94
1:J:840:GLN:CD	4:o:58:ALA:HB2	1.91	0.94
1:K:842:MET:CE	4:p:61:LEU:CD1	2.44	0.94
1:L:833:ASP:O	4:q:54:LEU:HD11	1.65	0.94
1:O:758:ALA:O	1:O:779:ASN:CB	2.14	0.94
1:O:759:GLY:CA	1:O:779:ASN:C	2.39	0.94
2:Z:272:TYR:CE1	2:a:160:ILE:HG21	2.01	0.94
3:b:279:PRO:CB	3:b:283:CYS:H	1.78	0.94
4:g:7:HIS:CG	4:g:52:GLU:CB	2.49	0.94
4:o:79:PHE:CB	4:o:88:LEU:HD21	1.95	0.94
4:p:22:MET:HE2	4:p:60:ALA:CB	1.96	0.94
4:q:22:MET:HE2	4:q:60:ALA:CB	1.96	0.94
4:s:44:HIS:HB3	4:s:47:GLN:O	1.64	0.94
1:G:494:PRO:HD2	1:G:755:ARG:HH11	1.32	0.94
1:D:94:ARG:HH12	1:I:9:PRO:CG	1.74	0.94
1:E:77:VAL:HB	1:E:266:HIS:HE1	0.99	0.94
1:F:484:ALA:O	1:F:485:ASN:ND2	2.00	0.94
1:J:394:LEU:HD21	1:J:1064:LEU:HB2	1.46	0.94
1:J:918:ALA:HB2	1:J:1032:SER:HB3	1.47	0.94
1:J:1342:LEU:CD2	1:J:1354:ARG:HD3	1.95	0.94
1:M:234:LEU:O	1:M:1113:ALA:O	1.84	0.94
1:M:530:GLN:HA	1:M:536:ASN:ND2	1.82	0.94
1:P:1115:VAL:HG11	1:P:1374:LEU:HD21	1.47	0.94
2:Q:178:VAL:CG1	2:Q:180:TYR:HE1	1.73	0.94
2:T:177:ASN:CG	2:T:189:VAL:HG23	1.92	0.94
2:X:267:ARG:HH12	3:Y:145:ARG:C	1.75	0.94
2:Z:186:LEU:HD12	2:Z:187:SER:N	1.82	0.94
4:g:9:PRO:CB	4:g:18:ARG:O	2.15	0.94
1:G:1302:THR:O	1:G:1313:ARG:N	1.99	0.94
1:I:90:MET:O	1:I:126:ARG:NH2	1.99	0.94
1:I:842:MET:HE3	4:n:61:LEU:CG	1.97	0.94
1:L:321:VAL:HG12	1:M:14:ALA:HB3	1.46	0.94
1:P:530:GLN:O	1:P:536:ASN:ND2	1.99	0.94
1:P:1204:ASN:OD1	1:P:1208:ARG:O	1.85	0.94
3:S:311:TYR:HA	3:S:423:ALA:O	1.67	0.94
3:V:437:HIS:CD2	3:V:451:ILE:CD1	2.50	0.94
3:Y:300:LEU:HD11	3:Y:332:SER:HA	0.99	0.94

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:f:6:PHE:CB	4:f:10:SER:OG	2.15	0.94
4:g:6:PHE:CB	4:g:10:SER:HB2	1.98	0.94
4:o:22:MET:HE2	4:o:60:ALA:CB	1.96	0.94
1:F:873:ASN:OD1	4:g:92:PHE:CB	2.15	0.94
1:I:874:THR:CG2	1:I:877:ALA:H	1.79	0.94
1:K:268:ASP:CB	1:K:301:ASP:HB2	1.97	0.94
1:P:148:LEU:HD21	1:P:154:SER:O	1.65	0.94
2:Z:160:ILE:CD1	2:Z:210:VAL:CG2	2.44	0.94
1:B:236:LYS:NZ	1:B:1368:PRO:O	2.00	0.94
1:E:1197:ASN:HA	1:E:1200:ARG:HG3	1.47	0.94
1:H:443:TRP:HH2	1:H:1347:ARG:HG2	1.26	0.94
1:H:533:GLN:N	1:H:534:PRO:CD	2.30	0.94
1:J:741:GLY:O	1:J:745:HIS:ND1	2.00	0.94
1:K:559:PRO:HG2	1:K:755:ARG:HH21	1.19	0.94
1:K:666:ASN:HB3	1:K:940:MET:HE2	0.96	0.94
1:K:840:GLN:CD	4:p:58:ALA:CB	2.39	0.94
1:L:842:MET:HG2	4:q:61:LEU:HD21	0.94	0.94
1:M:304:VAL:HG12	1:M:305:THR:H	1.30	0.94
1:N:1086:GLY:HA2	2:T:99:ASN:ND2	1.80	0.94
4:l:9:PRO:CB	4:l:18:ARG:O	2.15	0.94
4:m:9:PRO:HB3	4:m:18:ARG:C	1.92	0.94
4:q:6:PHE:CB	4:q:10:SER:OG	2.15	0.94
1:A:357:ALA:CB	1:A:359:GLN:HE22	1.80	0.94
1:B:47:ASN:O	1:B:48:SER:OG	1.84	0.94
1:D:918:ALA:CB	1:D:1032:SER:CB	2.36	0.94
1:F:86:GLU:N	1:F:86:GLU:OE1	2.00	0.94
1:O:756:ILE:HG22	1:O:760:GLY:O	1.66	0.94
1:O:1085:THR:HG21	1:O:1090:ASN:HD22	1.33	0.94
1:P:1190:THR:HG22	1:P:1243:ASN:ND2	1.83	0.94
2:a:93:THR:HG22	2:a:316:ARG:NH2	1.82	0.94
4:t:44:HIS:HB3	4:t:47:GLN:O	1.65	0.94
1:G:368:VAL:HG23	1:G:375:VAL:HG12	1.50	0.94
1:D:120:MET:HE1	1:I:29:VAL:HG11	1.49	0.94
1:H:269:THR:HG21	1:H:298:THR:CG2	1.95	0.94
1:H:837:ALA:CB	4:n:94:LEU:O	2.16	0.94
1:N:842:MET:HE3	4:r:61:LEU:HD13	1.50	0.94
1:O:1067:GLU:HB3	1:O:1107:THR:CG2	1.96	0.94
1:P:439:GLN:HE21	1:P:451:ARG:NH1	1.64	0.94
2:Q:104:SER:HB3	2:Q:105:PRO:HD2	1.50	0.94
3:S:82:ASP:HA	3:S:85:GLN:CG	1.97	0.94
4:n:6:PHE:CB	4:n:10:SER:HB2	1.98	0.94

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:n:79:PHE:CB	4:n:88:LEU:HD21	1.95	0.94
4:s:22:MET:HE2	4:s:60:ALA:CB	1.96	0.94
1:B:290:GLN:NE2	1:B:290:GLN:O	2.01	0.94
1:B:415:ARG:HH22	1:B:590:ALA:HB1	1.33	0.94
1:D:134:SER:HB3	1:M:44:SER:CB	1.96	0.94
1:D:445:LYS:HD3	1:D:1118:PRO:CB	1.96	0.94
1:J:233:PHE:O	1:J:1113:ALA:O	1.85	0.94
1:J:279:VAL:HG21	1:J:1064:LEU:CB	1.93	0.94
1:J:485:ASN:HD22	1:J:516:GLY:CA	1.79	0.94
1:J:743:MET:CE	1:J:797:ASP:CA	2.46	0.94
1:J:1233:ASP:HB3	1:J:1236:ARG:O	1.67	0.94
1:J:1338:SER:OG	1:J:1361:TYR:N	2.00	0.94
1:L:840:GLN:HE22	4:q:58:ALA:HB2	1.24	0.94
1:N:193:PRO:HG3	1:N:1294:VAL:HG12	1.46	0.94
3:S:109:HIS:ND1	3:S:267:CYS:HB2	1.82	0.94
2:a:97:THR:HG21	2:a:315:ILE:CA	1.59	0.94
3:b:435:CYS:HB2	3:b:437:HIS:CD2	2.03	0.94
3:e:109:HIS:ND1	3:e:267:CYS:HB2	1.82	0.94
4:f:22:MET:HE2	4:f:60:ALA:CB	1.96	0.94
4:o:6:PHE:CB	4:o:10:SER:HB2	1.98	0.94
4:s:10:SER:H	4:s:17:VAL:CB	1.64	0.94
1:G:832:PHE:HE2	1:G:902:ALA:CB	1.80	0.94
1:H:536:ASN:O	1:H:538:ASN:N	2.00	0.94
1:J:921:ALA:CA	1:J:1139:LEU:HD21	1.96	0.94
1:N:268:ASP:O	1:N:269:THR:OG1	1.86	0.94
3:S:136:HIS:HB3	3:S:139:ASP:HB3	1.50	0.94
2:a:93:THR:HA	2:a:316:ARG:HH22	1.32	0.94
4:l:6:PHE:CB	4:l:10:SER:HB2	1.98	0.94
4:l:22:MET:HE2	4:l:60:ALA:CB	1.96	0.94
1:A:90:MET:CE	1:B:31:SER:CB	2.14	0.94
1:A:321:VAL:HG12	1:A:322:MET:H	1.30	0.94
1:F:232:PHE:CZ	1:F:398:MET:HE1	2.02	0.94
1:F:918:ALA:HB2	1:F:1032:SER:CB	1.97	0.94
1:H:302:VAL:N	1:H:303:PRO:CD	2.31	0.94
1:J:185:LEU:O	1:J:189:LEU:N	2.00	0.94
1:K:840:GLN:OE1	4:p:58:ALA:CB	2.16	0.94
2:W:104:SER:HB3	2:W:105:PRO:HD2	1.50	0.94
3:Y:32:PRO:O	3:Y:36:VAL:HG13	1.66	0.94
4:t:22:MET:HE2	4:t:60:ALA:CB	1.96	0.94
1:G:1166:PHE:HE1	2:Q:280:ALA:HB1	1.29	0.93
1:B:109:PRO:HA	2:d:40:GLN:NE2	1.82	0.93

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:109:PRO:HA	2:d:40:GLN:HE22	1.31	0.93
1:C:110:HIS:O	2:X:40:GLN:CD	2.10	0.93
1:F:443:TRP:HH2	1:F:1347:ARG:CD	1.80	0.93
1:J:635:HIS:HD2	1:J:787:THR:HG22	0.77	0.93
1:J:756:ILE:HG22	1:J:761:HIS:O	1.68	0.93
1:L:767:ALA:O	1:L:786:ASN:HB3	1.67	0.93
1:O:490:TYR:OH	1:O:560:GLY:O	1.86	0.93
3:b:271:GLN:HG3	3:b:286:VAL:HG12	1.49	0.93
3:b:435:CYS:HB3	3:b:437:HIS:HD2	1.20	0.93
1:B:1080:VAL:CG1	1:B:1092:THR:O	2.16	0.93
1:H:299:GLU:O	1:H:365:ALA:HB3	1.69	0.93
1:J:637:SER:HA	1:J:787:THR:O	1.66	0.93
1:K:842:MET:HE3	4:p:61:LEU:HD11	0.95	0.93
3:V:109:HIS:ND1	3:V:267:CYS:HB2	1.82	0.93
3:b:76:THR:HA	3:b:80:ARG:CB	1.97	0.93
3:b:314:PHE:CE1	3:b:327:VAL:HG22	2.03	0.93
3:e:311:TYR:HA	3:e:423:ALA:O	1.67	0.93
4:s:10:SER:O	4:s:16:ASN:C	2.11	0.93
1:D:842:MET:HE3	4:j:61:LEU:CD1	1.97	0.93
1:M:1118:PRO:HB3	1:M:1122:MET:CE	1.98	0.93
2:W:296:ARG:HG3	2:W:318:PRO:HA	1.50	0.93
4:o:6:PHE:CB	4:o:10:SER:OG	2.15	0.93
1:A:837:ALA:CA	4:g:54:LEU:HD21	1.97	0.93
1:C:846:GLU:OE2	4:i:67:THR:OG1	1.86	0.93
1:D:834:ARG:CG	4:k:94:LEU:CB	2.47	0.93
1:H:191:LYS:NZ	1:H:1070:SER:O	2.02	0.93
1:J:279:VAL:HG23	1:J:1064:LEU:HB3	1.50	0.93
1:J:529:GLU:HA	1:J:532:MET:HE1	1.50	0.93
1:L:129:LEU:HD11	1:L:183:GLN:HE21	1.31	0.93
1:L:216:ARG:NH2	1:L:1287:ARG:O	2.00	0.93
1:N:109:PRO:HG2	2:a:42:ALA:HB2	1.51	0.93
3:b:299:GLU:OE1	3:b:330:VAL:HG21	1.68	0.93
4:k:10:SER:N	4:k:17:VAL:CB	2.31	0.93
4:r:77:PRO:HD2	4:r:80:ALA:HB2	1.51	0.93
1:G:409:PHE:CD2	1:G:415:ARG:NH2	2.36	0.93
1:G:1165:VAL:HG11	2:R:240:LEU:CD1	1.98	0.93
1:K:1201:ARG:NH1	1:L:448:GLN:HB2	1.84	0.93
1:N:834:ARG:CG	4:s:94:LEU:CB	2.46	0.93
1:O:234:LEU:HB3	1:O:1113:ALA:HB1	1.46	0.93
4:f:77:PRO:HD2	4:f:80:ALA:HB2	1.51	0.93
4:p:10:SER:H	4:p:17:VAL:CB	1.80	0.93

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1114:THR:HG23	1:A:1115:VAL:N	1.84	0.93
1:I:946:ASP:HB2	1:J:676:THR:HG23	1.51	0.93
1:I:1198:TYR:OH	1:I:1204:ASN:O	1.87	0.93
1:K:837:ALA:CA	4:p:54:LEU:CD2	2.22	0.93
1:N:534:PRO:HG2	1:N:1230:GLY:O	1.68	0.93
2:Q:147:LEU:CD1	2:Q:181:TYR:CD1	2.51	0.93
3:V:311:TYR:HA	3:V:423:ALA:O	1.67	0.93
3:Y:300:LEU:CD1	3:Y:332:SER:CA	2.34	0.93
4:m:6:PHE:CB	4:m:10:SER:HB2	1.98	0.93
4:o:10:SER:H	4:o:17:VAL:CB	1.82	0.93
4:s:77:PRO:HD2	4:s:80:ALA:HB2	1.51	0.93
1:A:467:MET:HE1	1:A:575:TRP:HE1	1.31	0.93
1:H:842:MET:HG2	4:m:61:LEU:CD2	1.99	0.93
1:J:279:VAL:HG23	1:J:1064:LEU:H	1.34	0.93
1:M:69:ARG:HH11	3:e:41:ILE:HD12	0.80	0.93
1:M:308:GLU:HG2	1:M:309:MET:N	1.83	0.93
1:M:1118:PRO:HB3	1:M:1122:MET:HE2	1.48	0.93
1:N:201:MET:HG3	1:N:205:LEU:CD1	1.99	0.93
1:O:534:PRO:HB2	1:P:1154:GLY:CA	1.97	0.93
2:W:295:VAL:HG11	2:W:314:VAL:HG12	0.93	0.93
2:a:97:THR:HG23	2:a:315:ILE:CG2	1.98	0.93
3:b:209:ALA:O	3:b:213:THR:OG1	1.85	0.93
4:j:6:PHE:CB	4:j:10:SER:OG	2.15	0.93
4:r:22:MET:HE2	4:r:60:ALA:CB	1.96	0.93
1:A:262:PRO:O	1:B:59:GLY:O	1.86	0.93
1:J:402:PHE:HD1	1:J:1333:PRO:C	1.76	0.93
1:L:252:THR:HG22	1:L:373:ARG:HD2	1.49	0.93
1:O:840:GLN:HE22	4:s:58:ALA:HB2	1.10	0.93
1:P:488:GLY:N	1:P:520:TRP:CH2	2.36	0.93
4:s:15:ASP:CB	4:s:28:ALA:C	2.42	0.93
1:A:530:GLN:O	1:A:536:ASN:ND2	2.01	0.93
1:C:769:CYS:HB2	1:C:786:ASN:HD21	1.33	0.93
1:C:840:GLN:HE22	4:i:58:ALA:CB	1.82	0.93
1:E:124:ILE:HD13	1:E:1100:VAL:CG2	1.98	0.93
1:J:452:LEU:HD13	1:J:1052:VAL:HG21	1.51	0.93
1:K:919:ASN:O	1:K:923:THR:OG1	1.84	0.93
1:O:1223:ILE:HD11	1:O:1227:TYR:CE2	2.03	0.93
2:T:104:SER:HB3	2:T:105:PRO:HD2	1.50	0.93
3:b:189:PHE:HA	3:b:211:ILE:HD13	1.49	0.93
4:f:6:PHE:CB	4:f:10:SER:HB2	1.98	0.93
4:i:6:PHE:CB	4:i:10:SER:OG	2.15	0.93

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:n:30:ASN:ND2	4:o:107:LYS:HZ2	1.66	0.93
1:G:469:ILE:O	1:G:472:ALA:N	2.01	0.93
1:J:743:MET:SD	1:J:797:ASP:O	2.27	0.93
1:J:755:ARG:HB2	1:J:755:ARG:NH1	1.82	0.93
1:J:1347:ARG:HG3	1:J:1347:ARG:HH11	1.34	0.93
1:M:844:VAL:HG12	4:f:68:HIS:CB	1.99	0.93
1:O:1266:ALA:HA	2:a:54:GLY:HA3	1.51	0.93
3:Y:32:PRO:O	3:Y:36:VAL:CG1	2.16	0.93
4:j:22:MET:HE2	4:j:60:ALA:CB	1.96	0.93
4:s:6:PHE:CB	4:s:10:SER:CB	2.47	0.93
1:G:1182:ASP:O	1:G:1310:GLN:HG2	1.69	0.92
1:A:534:PRO:CB	1:B:1154:GLY:HA3	1.99	0.92
1:C:114:GLN:HE21	1:M:43:ARG:NE	1.67	0.92
1:E:267:ALA:HB1	1:E:274:VAL:H	1.31	0.92
1:F:532:MET:HE3	1:F:534:PRO:HG2	1.50	0.92
1:I:1344:ARG:HG2	1:I:1347:ARG:HH22	1.30	0.92
1:J:135:LEU:O	1:J:1088:GLY:HA3	1.68	0.92
1:N:270:ARG:HH12	1:N:297:ASP:HA	1.32	0.92
3:S:300:LEU:HD21	3:S:332:SER:HB2	1.39	0.92
3:b:318:GLN:HB3	3:b:416:THR:N	1.84	0.92
3:b:418:THR:HG22	3:b:419:TYR:N	1.75	0.92
3:e:108:TYR:OH	3:e:110:LEU:CD1	2.17	0.92
4:f:90:PRO:CB	4:f:103:VAL:CB	2.47	0.92
4:g:6:PHE:CB	4:g:10:SER:OG	2.15	0.92
4:i:22:MET:HE3	4:i:60:ALA:CB	1.98	0.92
4:j:77:PRO:HD2	4:j:80:ALA:HB2	1.51	0.92
4:n:6:PHE:CB	4:n:10:SER:OG	2.15	0.92
4:r:6:PHE:CB	4:r:10:SER:OG	2.15	0.92
1:G:830:VAL:HG22	1:G:955:PHE:HD1	1.32	0.92
1:A:263:ARG:O	1:A:264:LEU:CD1	2.15	0.92
1:D:35:LEU:CA	1:L:1291:ARG:HH21	1.83	0.92
1:I:1229:HIS:NE2	1:I:1247:SER:O	2.01	0.92
1:J:743:MET:HE1	1:J:797:ASP:CA	2.00	0.92
1:J:1045:HIS:HD2	1:J:1047:GLY:H	1.07	0.92
1:N:1078:LEU:HD11	3:V:83:THR:HA	1.47	0.92
1:P:148:LEU:CD2	1:P:154:SER:C	2.42	0.92
3:b:289:PRO:HB3	3:b:451:ILE:HG22	1.50	0.92
4:h:99:SER:O	4:h:100:PRO:CB	2.17	0.92
4:p:77:PRO:HD2	4:p:80:ALA:HB2	1.51	0.92
1:G:822:ARG:NH2	1:G:1020:LEU:HD22	1.84	0.92
1:A:112:VAL:HG11	1:B:131:ALA:C	1.95	0.92

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:224:LYS:NZ	1:A:1330:GLU:CD	2.25	0.92
1:H:759:GLY:H	1:H:779:ASN:C	1.78	0.92
1:K:493:ALA:HB2	1:K:755:ARG:NH1	1.85	0.92
1:K:759:GLY:CA	1:K:779:ASN:O	2.15	0.92
1:N:879:PHE:O	1:N:882:GLY:O	1.87	0.92
3:b:193:ALA:HB1	3:b:231:LEU:HD12	1.48	0.92
4:f:22:MET:HE2	4:f:60:ALA:HB3	1.52	0.92
4:j:6:PHE:CB	4:j:10:SER:HB2	1.98	0.92
4:k:6:PHE:CB	4:k:10:SER:HB2	1.98	0.92
4:k:77:PRO:HD2	4:k:80:ALA:HB2	1.51	0.92
4:n:77:PRO:HD2	4:n:80:ALA:HB2	1.51	0.92
4:r:3:ALA:HB1	4:r:38:ASN:O	1.69	0.92
1:F:827:THR:OG1	1:F:958:LEU:O	1.87	0.92
1:I:946:ASP:HB2	1:J:676:THR:CG2	1.99	0.92
1:J:915:ASP:CB	1:J:1030:LYS:HZ1	1.80	0.92
1:P:512:ARG:HH22	1:P:564:PRO:HG2	0.78	0.92
2:Q:272:TYR:CD2	2:R:161:ARG:HG2	2.03	0.92
3:Y:108:TYR:OH	3:Y:110:LEU:CD1	2.17	0.92
2:a:157:ALA:CA	2:a:160:ILE:HG12	1.98	0.92
4:t:77:PRO:HD2	4:t:80:ALA:HB2	1.51	0.92
1:B:1318:ARG:HH22	3:S:257:GLN:CB	1.82	0.92
1:E:30:ALA:O	1:E:33:ARG:CA	2.16	0.92
1:H:82:THR:HA	1:H:307:GLY:O	1.70	0.92
1:J:1229:HIS:CD2	1:J:1241:THR:CG2	2.53	0.92
1:J:1236:ARG:HH22	1:J:1242:ALA:HB2	1.34	0.92
1:K:347:ASN:ND2	1:L:163:GLN:O	2.02	0.92
2:T:295:VAL:HG11	2:T:314:VAL:HG12	0.93	0.92
4:l:21:GLY:O	4:l:23:ARG:O	1.86	0.92
4:n:30:ASN:ND2	4:o:107:LYS:NZ	2.16	0.92
4:o:22:MET:HE3	4:o:60:ALA:CB	1.98	0.92
1:G:321:VAL:C	1:G:322:MET:CE	2.42	0.92
1:A:74:GLY:O	1:A:77:VAL:HG23	1.67	0.92
1:L:476:VAL:HG11	1:L:571:ILE:HD11	0.93	0.92
1:N:182:ASP:OD1	1:N:385:TYR:OH	1.87	0.92
2:Q:105:PRO:CG	2:Q:186:LEU:CD1	2.42	0.92
2:Q:160:ILE:HD11	2:Q:206:VAL:CG1	2.00	0.92
2:Q:296:ARG:HG3	2:Q:318:PRO:HA	1.50	0.92
3:Y:434:ARG:HH12	3:Y:436:LEU:HD21	1.10	0.92
2:Z:223:LEU:HA	2:Z:271:LEU:HD13	1.50	0.92
3:b:76:THR:HG22	3:b:80:ARG:CB	1.99	0.92
1:G:829:GLY:O	1:G:956:TYR:N	2.01	0.92

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1245:TRP:O	1:G:1251:SER:O	1.88	0.92
1:G:1266:ALA:HA	1:G:1312:LYS:HZ1	1.34	0.92
1:A:94:ARG:NH1	1:A:123:VAL:HG22	1.84	0.92
1:A:1218:LYS:HD3	1:B:1173:ARG:NH2	1.74	0.92
1:B:452:LEU:HD23	1:B:456:ASN:HD22	1.29	0.92
1:B:842:MET:HE3	4:h:61:LEU:HD11	1.48	0.92
1:H:78:ALA:O	1:H:1069:ALA:O	1.88	0.92
1:N:742:LEU:CD2	1:N:765:TYR:OH	2.17	0.92
3:S:108:TYR:OH	3:S:110:LEU:CD1	2.17	0.92
2:T:313:PRO:O	2:T:314:VAL:HG23	1.70	0.92
4:h:6:PHE:CB	4:h:10:SER:HB2	1.98	0.92
4:h:9:PRO:CB	4:h:17:VAL:CB	2.48	0.92
4:l:77:PRO:HD2	4:l:80:ALA:HB2	1.51	0.92
4:o:3:ALA:HB1	4:o:38:ASN:O	1.69	0.92
1:C:917:GLY:CA	1:C:1034:VAL:HG21	1.99	0.92
1:M:415:ARG:HH22	1:M:590:ALA:HB1	1.31	0.92
3:S:300:LEU:HD22	3:S:332:SER:CB	1.91	0.92
4:n:3:ALA:HB1	4:n:38:ASN:O	1.69	0.92
4:q:77:PRO:HD2	4:q:80:ALA:HB2	1.51	0.92
1:G:832:PHE:HB3	1:G:836:TYR:HE2	1.14	0.92
1:G:1165:VAL:HG22	2:R:240:LEU:HA	1.51	0.92
1:F:185:LEU:O	1:F:189:LEU:CD1	2.18	0.92
1:M:530:GLN:C	1:M:536:ASN:ND2	2.25	0.92
1:P:488:GLY:CA	1:P:520:TRP:CH2	2.53	0.92
2:a:119:PRO:HG3	2:a:138:ARG:HD3	1.50	0.92
4:f:3:ALA:HB1	4:f:38:ASN:O	1.69	0.92
4:s:22:MET:HE3	4:s:60:ALA:CB	1.98	0.92
1:G:1199:PHE:O	1:G:1333:PRO:CG	2.18	0.92
1:A:892:LEU:CD1	4:g:65:GLY:HA2	1.99	0.92
1:B:867:PRO:HB3	4:i:80:ALA:HB3	1.52	0.92
1:H:124:ILE:HA	1:H:1100:VAL:CG2	2.00	0.92
2:Q:295:VAL:HG11	2:Q:314:VAL:HG12	0.93	0.92
3:V:108:TYR:OH	3:V:110:LEU:CD1	2.17	0.92
2:W:186:LEU:HD12	2:W:187:SER:N	1.85	0.92
3:Y:141:PRO:CG	3:Y:157:LEU:CB	2.48	0.92
4:k:22:MET:HE3	4:k:60:ALA:CB	1.98	0.92
4:q:6:PHE:CB	4:q:10:SER:HB2	1.98	0.92
1:B:840:GLN:HE22	4:h:58:ALA:HB2	1.34	0.91
1:C:1347:ARG:O	1:C:1348:ASP:OD1	1.86	0.91
1:E:248:LEU:HD21	1:E:293:LEU:HD11	1.50	0.91
1:H:467:MET:HE1	1:H:575:TRP:HE1	1.35	0.91

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:462:CYS:HB3	1:J:1037:TYR:CZ	2.06	0.91
1:M:356:SER:O	1:M:357:ALA:CB	2.17	0.91
1:P:445:LYS:HD2	1:P:1118:PRO:HG2	1.50	0.91
2:W:224:ILE:O	2:W:227:LEU:O	1.88	0.91
2:a:35:PRO:CA	2:a:70:ARG:NH1	2.25	0.91
4:h:77:PRO:HD2	4:h:80:ALA:HB2	1.51	0.91
1:G:530:GLN:CG	1:G:536:ASN:HD21	1.83	0.91
1:D:122:LYS:HD2	1:I:36:PHE:CD1	2.06	0.91
1:D:266:HIS:CE1	1:D:376:PHE:CE2	2.50	0.91
1:F:140:ILE:O	1:F:144:THR:OG1	1.88	0.91
1:H:1218:LYS:HZ1	1:I:1173:ARG:NE	1.66	0.91
1:K:155:LEU:HB3	1:P:340:GLN:HE22	1.32	0.91
1:L:71:LEU:CD2	1:L:305:THR:HA	2.00	0.91
1:L:74:GLY:CA	1:L:378:GLU:OE2	2.18	0.91
1:M:47:ASN:HD21	3:Y:276:THR:HG22	0.76	0.91
1:M:1115:VAL:HB	1:M:1374:LEU:HD21	1.50	0.91
1:P:501:MET:CE	1:P:958:LEU:HD21	2.00	0.91
3:S:275:HIS:HE1	3:S:281:ARG:H	1.01	0.91
1:G:832:PHE:CB	1:G:836:TYR:CE2	2.46	0.91
1:A:109:PRO:O	1:A:110:HIS:O	1.88	0.91
1:A:889:PRO:CD	4:g:69:ALA:HB1	2.00	0.91
1:E:17:MET:CA	1:H:349:GLU:OE2	2.17	0.91
1:F:780:ASP:OD1	1:F:782:ARG:HG2	1.69	0.91
1:I:286:GLN:HA	1:I:289:LEU:CD2	1.98	0.91
1:J:575:TRP:HZ2	1:J:1032:SER:HB3	1.33	0.91
1:J:1115:VAL:CG1	1:J:1374:LEU:HD21	2.00	0.91
3:S:164:LEU:CB	3:S:230:CYS:SG	2.59	0.91
2:T:224:ILE:O	2:T:227:LEU:O	1.88	0.91
3:Y:300:LEU:HG	3:Y:332:SER:HB2	1.51	0.91
3:b:318:GLN:CG	3:b:416:THR:N	2.33	0.91
3:e:317:ARG:CB	3:e:324:LEU:HB3	1.99	0.91
4:g:77:PRO:HD2	4:g:80:ALA:HB2	1.51	0.91
1:G:1077:GLN:O	1:G:1079:GLN:CD	2.14	0.91
1:A:1225:LEU:HD21	1:A:1234:PRO:CG	2.00	0.91
1:A:1229:HIS:CD2	1:A:1241:THR:HG21	2.03	0.91
1:I:544:HIS:HD2	1:I:546:ALA:H	1.14	0.91
1:J:452:LEU:CD2	1:J:456:ASN:ND2	2.33	0.91
1:J:1054:ARG:HH22	1:J:1124:ASN:H	1.13	0.91
1:J:1300:VAL:CG1	1:J:1318:ARG:HD3	2.00	0.91
1:M:532:MET:HB2	1:M:534:PRO:HD2	1.52	0.91
1:M:1201:ARG:HH11	1:N:448:GLN:CD	1.78	0.91

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:274:VAL:HG11	1:N:376:PHE:CE2	2.05	0.91
1:O:534:PRO:HB2	1:P:1154:GLY:N	1.85	0.91
3:S:127:ALA:HB1	3:S:286:VAL:HG22	1.53	0.91
2:W:272:TYR:CD2	2:X:161:ARG:HB2	2.05	0.91
3:Y:425:LEU:O	3:Y:458:ARG:O	1.87	0.91
2:Z:222:THR:OG1	2:Z:271:LEU:HD21	1.70	0.91
3:e:436:LEU:HD22	3:e:450:VAL:HG22	1.52	0.91
4:r:9:PRO:CA	4:r:17:VAL:CB	2.49	0.91
4:t:22:MET:HE2	4:t:60:ALA:HB3	1.51	0.91
1:C:579:ASN:O	1:C:582:LEU:HD12	1.68	0.91
1:E:579:ASN:O	1:E:582:LEU:HD11	1.69	0.91
1:J:1106:TYR:O	1:J:1107:THR:OG1	1.87	0.91
1:L:1317:CYS:N	3:Y:179:CYS:SG	2.42	0.91
1:M:501:MET:HE2	1:M:958:LEU:HD11	1.52	0.91
1:M:530:GLN:CA	1:M:536:ASN:ND2	2.34	0.91
1:P:756:ILE:CD1	1:P:906:THR:HG22	2.00	0.91
1:P:889:PRO:HD3	4:t:69:ALA:CB	1.99	0.91
3:V:278:HIS:CB	3:V:279:PRO:CD	2.31	0.91
3:b:290:ALA:HB3	3:b:296:LEU:HD22	1.51	0.91
2:c:296:ARG:HG3	2:c:318:PRO:HA	1.50	0.91
4:h:46:THR:OG1	4:h:50:VAL:HG12	1.71	0.91
4:m:77:PRO:HD2	4:m:80:ALA:HB2	1.51	0.91
1:A:841:ASN:OD1	4:g:26:VAL:HG22	1.69	0.91
1:C:532:MET:HE2	1:C:534:PRO:CB	2.01	0.91
1:H:189:LEU:HD13	1:H:1064:LEU:HD22	1.49	0.91
1:H:1197:ASN:O	1:H:1199:PHE:O	1.89	0.91
1:J:1355:GLU:HA	1:J:1362:LEU:HB3	1.51	0.91
1:N:417:ALA:HB2	1:N:1358:PHE:CE1	2.05	0.91
1:N:1218:LYS:HE3	1:O:1173:ARG:NH2	1.85	0.91
3:Y:198:TYR:CZ	3:Y:294:VAL:HG12	2.04	0.91
3:e:140:LEU:HD11	3:e:161:TRP:CZ3	2.06	0.91
4:n:30:ASN:HD21	4:o:107:LYS:HZ2	1.18	0.91
1:G:294:LYS:HD2	1:G:295:VAL:H	1.33	0.91
1:G:409:PHE:CD2	1:G:415:ARG:CZ	2.53	0.91
1:B:1080:VAL:HG22	1:B:1093:LEU:HG	1.49	0.91
1:E:834:ARG:CG	4:l:94:LEU:CB	2.49	0.91
1:H:532:MET:HE2	1:H:534:PRO:HG2	1.52	0.91
3:S:83:THR:O	3:S:87:VAL:HG23	1.70	0.91
3:S:299:GLU:HB3	3:S:332:SER:HB3	1.53	0.91
3:V:317:ARG:CB	3:V:324:LEU:HB3	1.99	0.91
3:Y:317:ARG:CB	3:Y:324:LEU:HB3	2.00	0.91

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:b:313:VAL:HG23	3:b:330:VAL:CG1	1.99	0.91
4:i:77:PRO:HD2	4:i:80:ALA:HB2	1.51	0.91
4:q:46:THR:OG1	4:q:50:VAL:HG12	1.71	0.91
4:t:46:THR:OG1	4:t:50:VAL:HG12	1.71	0.91
1:E:889:PRO:CD	4:k:69:ALA:HB1	1.97	0.91
1:J:944:HIS:CD2	1:J:972:ASN:HB3	2.06	0.91
1:M:840:GLN:CD	4:f:58:ALA:HB2	1.95	0.91
2:c:313:PRO:O	2:c:314:VAL:HG23	1.70	0.91
4:m:3:ALA:HB1	4:m:38:ASN:O	1.69	0.91
1:G:1161:GLN:HG3	2:R:180:TYR:CD1	2.06	0.91
1:A:289:LEU:CD2	1:A:377:LEU:HD21	2.00	0.91
1:B:452:LEU:CD2	1:B:456:ASN:ND2	2.33	0.91
1:D:837:ALA:CB	4:k:94:LEU:O	2.18	0.91
1:D:1241:THR:CG2	1:D:1247:SER:OG	2.18	0.91
1:F:237:ALA:CB	1:F:240:ARG:NH2	2.33	0.91
1:I:530:GLN:O	1:I:536:ASN:ND2	2.03	0.91
1:L:463:HIS:HD1	1:L:465:SER:HG	1.15	0.91
1:O:1165:VAL:HG11	2:a:196:ALA:HB1	1.51	0.91
3:Y:127:ALA:HB1	3:Y:286:VAL:HG22	1.53	0.91
2:c:224:ILE:O	2:c:227:LEU:O	1.88	0.91
1:C:756:ILE:HD12	1:C:757:ASP:H	1.35	0.91
1:D:35:LEU:N	1:L:1291:ARG:NH2	2.19	0.91
1:I:317:VAL:O	1:I:321:VAL:HG12	1.71	0.91
1:O:1068:ARG:HG2	1:O:1069:ALA:N	1.85	0.91
3:e:127:ALA:HB1	3:e:286:VAL:HG22	1.53	0.91
4:g:46:THR:OG1	4:g:50:VAL:HG12	1.71	0.91
4:l:22:MET:HE3	4:l:60:ALA:CB	1.98	0.91
4:q:22:MET:HE3	4:q:60:ALA:CB	1.98	0.91
1:G:1165:VAL:HG22	2:R:240:LEU:O	1.67	0.90
1:G:1300:VAL:CB	1:G:1323:ASP:OD2	2.20	0.90
1:D:956:TYR:HH	1:D:958:LEU:HD11	1.31	0.90
1:F:71:LEU:HD13	1:F:305:THR:HA	1.49	0.90
1:I:532:MET:CG	1:I:535:ASP:CB	2.48	0.90
1:J:488:GLY:N	1:J:520:TRP:CH2	2.36	0.90
1:J:889:PRO:CD	4:o:69:ALA:CB	2.47	0.90
1:K:883:ARG:HH11	1:L:681:ASP:HB3	1.36	0.90
1:L:1218:LYS:HZ2	2:d:184:ALA:CB	1.81	0.90
1:M:147:ALA:C	1:M:148:LEU:HD12	1.96	0.90
1:M:530:GLN:HG3	1:M:536:ASN:ND2	1.87	0.90
1:O:1223:ILE:HD11	1:O:1227:TYR:HE2	1.36	0.90
1:P:488:GLY:H	1:P:520:TRP:HH2	0.94	0.90

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:f:46:THR:OG1	4:f:50:VAL:HG12	1.71	0.90
4:m:46:THR:OG1	4:m:50:VAL:HG12	1.71	0.90
4:q:99:SER:O	4:q:100:PRO:CB	2.19	0.90
1:G:522:ALA:HA	1:G:524:CYS:HG	1.37	0.90
1:D:445:LYS:HD2	1:D:1118:PRO:HB2	1.53	0.90
1:D:829:GLY:HA3	1:D:956:TYR:CE2	2.06	0.90
1:D:873:ASN:OD1	4:k:92:PHE:CB	2.18	0.90
1:D:915:ASP:OD1	1:D:918:ALA:HB3	1.71	0.90
1:F:582:LEU:HD11	1:F:587:CYS:HB3	1.52	0.90
1:K:559:PRO:HB2	1:K:755:ARG:NE	1.84	0.90
1:N:758:ALA:O	1:N:779:ASN:CA	2.20	0.90
1:N:1218:LYS:HG3	1:O:1173:ARG:HH22	1.33	0.90
1:O:456:ASN:OD1	1:O:1126:PRO:CG	2.19	0.90
2:Q:224:ILE:O	2:Q:227:LEU:O	1.88	0.90
3:Y:434:ARG:NH1	3:Y:436:LEU:CD2	2.17	0.90
4:k:46:THR:OG1	4:k:50:VAL:HG12	1.71	0.90
1:A:357:ALA:O	1:A:359:GLN:CD	2.13	0.90
1:B:536:ASN:HD22	1:B:539:LEU:HB2	1.36	0.90
1:C:889:PRO:CD	4:i:69:ALA:HB1	2.00	0.90
1:F:237:ALA:HB2	1:F:240:ARG:NH2	1.85	0.90
1:H:834:ARG:HG2	4:n:94:LEU:CB	1.98	0.90
1:I:543:LEU:O	1:I:1245:TRP:CD1	2.23	0.90
1:I:1095:GLN:HE21	1:I:1097:ARG:HH21	1.18	0.90
1:J:417:ALA:HB2	1:J:1358:PHE:CE1	2.06	0.90
1:J:750:ARG:O	1:J:912:ALA:HA	1.70	0.90
1:J:1342:LEU:CD2	1:J:1354:ARG:CG	2.49	0.90
1:M:308:GLU:HG2	1:M:309:MET:H	1.35	0.90
1:M:1347:ARG:HH21	1:M:1347:ARG:HG3	1.34	0.90
1:O:290:GLN:O	1:O:294:LYS:HE3	1.67	0.90
2:T:296:ARG:HG3	2:T:318:PRO:HA	1.50	0.90
3:b:242:HIS:ND1	3:b:316:TYR:OH	1.96	0.90
4:g:3:ALA:HB1	4:g:38:ASN:O	1.69	0.90
4:i:6:PHE:CB	4:i:10:SER:HB2	1.98	0.90
4:o:46:THR:OG1	4:o:50:VAL:HG12	1.71	0.90
4:p:3:ALA:HB1	4:p:38:ASN:O	1.69	0.90
1:C:749:ASP:O	1:C:752:ARG:NH2	2.05	0.90
1:K:99:VAL:HG13	1:K:120:MET:HE1	1.53	0.90
1:K:1124:ASN:O	1:K:1126:PRO:HD3	1.71	0.90
2:W:313:PRO:O	2:W:314:VAL:HG23	1.70	0.90
2:a:30:ARG:NH1	2:a:126:THR:HG21	1.86	0.90
4:i:46:THR:OG1	4:i:50:VAL:HG12	1.71	0.90

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:r:46:THR:OG1	4:r:50:VAL:HG12	1.71	0.90
1:G:81:CYS:O	1:G:306:TYR:O	1.89	0.90
1:G:263:ARG:CG	1:G:264:LEU:HD13	2.01	0.90
1:C:45:ASP:OD1	1:C:46:GLU:N	2.04	0.90
1:F:533:GLN:N	1:F:534:PRO:CD	2.35	0.90
1:K:1056:ASP:OD1	1:K:1120:THR:CG2	2.19	0.90
1:M:766:ALA:HB3	1:M:784:LEU:HD22	0.91	0.90
3:b:140:LEU:HD12	3:b:158:ALA:CA	2.02	0.90
4:t:3:ALA:HB1	4:t:38:ASN:O	1.69	0.90
1:B:1278:THR:O	1:B:1278:THR:HG23	1.70	0.90
1:H:1218:LYS:HE2	1:I:1173:ARG:HH22	1.14	0.90
1:I:122:LYS:HZ1	1:L:35:LEU:CD1	1.83	0.90
1:J:304:VAL:HG21	1:J:358:PRO:HG2	1.44	0.90
1:O:290:GLN:O	1:O:294:LYS:HE2	1.69	0.90
3:S:82:ASP:HA	3:S:85:GLN:CD	1.96	0.90
3:V:300:LEU:CD1	3:V:332:SER:CA	2.05	0.90
2:a:37:ILE:HG23	2:a:71:PHE:HB2	0.91	0.90
3:b:189:PHE:CB	3:b:211:ILE:HD13	2.01	0.90
2:c:295:VAL:HG11	2:c:314:VAL:HG12	0.93	0.90
4:k:3:ALA:HB1	4:k:38:ASN:O	1.69	0.90
4:l:99:SER:O	4:l:100:PRO:CB	2.19	0.90
1:B:23:ILE:HD12	1:B:65:LEU:CG	2.01	0.90
2:W:272:TYR:HE2	2:X:161:ARG:HG3	1.24	0.90
4:p:22:MET:HE2	4:p:60:ALA:HB3	1.51	0.90
1:A:1225:LEU:CD2	1:A:1234:PRO:HG2	2.02	0.90
1:E:956:TYR:CE1	1:E:958:LEU:CG	2.52	0.90
1:F:834:ARG:CG	4:g:94:LEU:CB	2.50	0.90
1:I:267:ALA:HB1	1:I:274:VAL:N	1.85	0.90
1:J:1198:TYR:HD1	1:J:1236:ARG:NH1	1.67	0.90
1:N:764:VAL:C	1:N:765:TYR:HD1	1.80	0.90
3:S:317:ARG:CB	3:S:324:LEU:HB3	2.00	0.90
3:Y:128:GLY:CA	3:Y:287:THR:O	2.18	0.90
2:a:31:VAL:HA	2:a:73:ALA:O	1.72	0.90
4:j:3:ALA:HB1	4:j:38:ASN:O	1.69	0.90
4:q:3:ALA:HB1	4:q:38:ASN:O	1.69	0.90
4:s:3:ALA:HB1	4:s:38:ASN:O	1.69	0.90
1:A:1347:ARG:O	1:A:1348:ASP:OD1	1.89	0.90
1:H:837:ALA:HB3	4:n:94:LEU:O	1.70	0.90
1:I:563:VAL:HG12	1:I:564:PRO:HD2	1.51	0.90
1:J:401:THR:O	1:J:1332:TYR:N	2.03	0.90
1:P:267:ALA:HB1	1:P:274:VAL:CA	2.02	0.90

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:313:PRO:O	2:Q:314:VAL:HG23	1.70	0.90
2:W:177:ASN:HD22	2:W:189:VAL:HG21	1.23	0.90
4:r:6:PHE:CB	4:r:10:SER:HB2	1.98	0.90
1:K:530:GLN:CA	1:K:536:ASN:ND2	2.34	0.90
1:N:206:ASP:O	1:N:207:ASN:ND2	2.05	0.90
2:R:264:ASP:O	3:S:150:PRO:HG2	1.72	0.90
2:a:97:THR:HG22	2:a:315:ILE:HA	0.90	0.90
3:b:242:HIS:HE1	3:b:316:TYR:OH	1.54	0.90
4:h:18:ARG:HA	4:h:56:GLY:HA3	1.52	0.90
4:t:22:MET:HE3	4:t:60:ALA:CB	1.98	0.90
1:A:487:TYR:OH	1:A:990:VAL:N	2.05	0.89
1:H:532:MET:HE2	1:H:534:PRO:HG3	1.51	0.89
1:H:837:ALA:CA	4:m:54:LEU:CD2	2.19	0.89
1:M:621:ARG:O	1:M:943:GLN:CG	2.20	0.89
3:Y:112:ARG:HH12	3:Y:262:SER:HB2	0.85	0.89
1:G:532:MET:C	1:G:534:PRO:HD2	1.97	0.89
1:A:756:ILE:CD1	1:A:906:THR:CG2	2.49	0.89
1:J:717:GLN:OE1	1:J:915:ASP:CG	2.15	0.89
1:P:759:GLY:O	1:P:780:ASP:O	1.89	0.89
3:b:319:CYS:N	3:b:323:GLU:HG3	1.87	0.89
4:i:3:ALA:HB1	4:i:38:ASN:O	1.69	0.89
4:j:46:THR:OG1	4:j:50:VAL:HG12	1.71	0.89
4:p:46:THR:OG1	4:p:50:VAL:HG12	1.71	0.89
4:s:46:THR:OG1	4:s:50:VAL:HG12	1.71	0.89
1:C:120:MET:SD	1:M:36:PHE:CE1	2.65	0.89
1:D:93:GLY:HA3	1:D:124:ILE:HD12	1.55	0.89
1:H:443:TRP:CH2	1:H:1347:ARG:CG	2.54	0.89
1:I:892:LEU:HD11	4:n:65:GLY:HA2	1.54	0.89
1:P:193:PRO:CG	1:P:198:LEU:HD12	2.02	0.89
2:Z:256:PRO:O	2:Z:260:MET:N	2.06	0.89
3:b:435:CYS:CB	3:b:437:HIS:NE2	2.28	0.89
4:r:22:MET:HE2	4:r:60:ALA:HB3	1.51	0.89
1:G:77:VAL:HG21	1:G:277:VAL:HG22	1.42	0.89
1:B:21:GLY:O	1:B:22:SER:OG	1.90	0.89
1:F:232:PHE:HZ	1:F:398:MET:CE	1.85	0.89
1:J:1299:ALA:O	1:J:1320:LEU:HA	1.72	0.89
4:o:77:PRO:HD2	4:o:80:ALA:HB2	1.51	0.89
1:B:1316:GLY:C	3:S:260:LEU:HD11	1.96	0.89
1:D:953:GLU:OE1	1:D:953:GLU:N	2.05	0.89
1:I:586:LEU:HD23	1:I:1245:TRP:CZ2	2.07	0.89
1:I:947:HIS:CG	1:J:638:GLU:CD	2.50	0.89

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:71:LEU:HD21	1:L:305:THR:CA	2.01	0.89
1:N:1085:THR:OG1	1:N:1090:ASN:ND2	2.05	0.89
1:P:752:ARG:HG3	1:P:927:ARG:HD2	1.54	0.89
3:S:159:GLU:O	3:S:163:GLN:N	2.05	0.89
3:V:292:ALA:HB3	3:V:295:ASP:H	1.38	0.89
3:Y:300:LEU:CG	3:Y:332:SER:CB	2.49	0.89
2:a:35:PRO:HB3	2:a:70:ARG:CZ	2.02	0.89
3:e:136:HIS:HB3	3:e:138:THR:HB	1.52	0.89
4:l:3:ALA:HB1	4:l:38:ASN:O	1.69	0.89
4:l:46:THR:OG1	4:l:50:VAL:HG12	1.71	0.89
4:p:22:MET:HE3	4:p:60:ALA:CB	1.98	0.89
1:G:1165:VAL:CG2	2:R:240:LEU:C	2.46	0.89
1:G:1279:ALA:O	1:G:1283:THR:OG1	1.91	0.89
1:A:847:ILE:HG21	4:g:70:ASN:C	1.97	0.89
1:D:1082:ARG:CZ	1:D:1084:GLU:OE2	2.20	0.89
1:F:241:ARG:NH1	1:F:245:GLU:OE2	2.06	0.89
1:I:102:PRO:HD2	1:J:387:ALA:HB3	1.55	0.89
1:I:482:GLU:CA	1:I:569:GLY:N	1.76	0.89
1:I:730:ALA:HB2	1:I:750:ARG:HH12	1.36	0.89
1:L:83:LYS:CG	3:Y:79:THR:HG23	2.03	0.89
1:P:730:ALA:HB2	1:P:750:ARG:HH12	1.37	0.89
3:b:197:ALA:HB1	3:b:324:LEU:HD22	1.53	0.89
3:b:318:GLN:CB	3:b:416:THR:N	2.36	0.89
3:e:136:HIS:HB3	3:e:138:THR:CB	2.01	0.89
1:G:492:ALA:H	1:G:992:PRO:HB2	1.36	0.89
1:A:840:GLN:HE22	4:g:58:ALA:HB2	1.38	0.89
1:C:527:THR:OG1	1:C:585:ALA:O	1.90	0.89
1:K:441:PHE:CE2	1:K:451:ARG:HD3	2.06	0.89
1:L:846:GLU:CD	4:q:67:THR:OG1	2.15	0.89
2:R:128:VAL:HG12	2:R:137:LEU:O	1.72	0.89
3:V:161:TRP:CZ3	3:V:165:LEU:HD12	2.08	0.89
3:Y:299:GLU:HB3	3:Y:332:SER:HB3	1.53	0.89
4:q:90:PRO:CB	4:q:103:VAL:CB	2.51	0.89
1:J:415:ARG:HH22	1:J:590:ALA:HB1	1.37	0.89
3:Y:296:LEU:HD22	3:Y:450:VAL:HG11	1.54	0.89
2:Z:178:VAL:CG1	2:Z:180:TYR:CZ	2.56	0.89
1:G:295:VAL:HG23	1:G:368:VAL:HA	0.89	0.89
1:I:380:LEU:HD11	1:I:385:TYR:HE2	1.38	0.89
1:I:837:ALA:HB1	4:n:54:LEU:HD21	1.50	0.89
1:J:77:VAL:CG1	1:J:277:VAL:HG13	2.03	0.89
1:J:367:LEU:HD23	1:J:376:PHE:CD1	2.06	0.89

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:V:140:LEU:H	3:V:142:HIS:CE1	1.91	0.89
2:c:33:PHE:HB3	2:c:70:ARG:CD	2.02	0.89
4:h:3:ALA:HB1	4:h:38:ASN:O	1.69	0.89
4:m:22:MET:HE3	4:m:60:ALA:CB	1.98	0.89
1:C:110:HIS:C	2:X:40:GLN:OE1	2.01	0.89
1:C:758:ALA:HB2	1:C:904:ARG:NH2	1.88	0.89
1:F:917:GLY:O	1:F:1033:PRO:HD2	1.73	0.89
1:M:1085:THR:OG1	1:M:1088:GLY:O	1.91	0.89
1:N:534:PRO:HD3	1:N:1230:GLY:HA2	1.54	0.89
2:R:13:PRO:HB2	2:R:133:LEU:HD13	1.55	0.89
2:W:268:ARG:CD	2:X:166:ASP:CG	2.41	0.89
4:n:46:THR:OG1	4:n:50:VAL:HG12	1.71	0.89
4:p:21:GLY:O	4:p:25:LEU:HD12	1.73	0.89
1:G:274:VAL:CG2	1:G:374:LEU:HD23	1.99	0.88
1:G:1165:VAL:HG22	2:R:240:LEU:CA	2.02	0.88
1:A:956:TYR:HE1	1:A:958:LEU:CD2	1.85	0.88
1:D:534:PRO:HB3	1:E:1154:GLY:N	1.88	0.88
1:J:24:LEU:HD11	1:K:260:ALA:HB2	1.55	0.88
1:J:400:LEU:CD2	1:J:1369:LEU:HD23	2.00	0.88
1:J:402:PHE:CG	1:J:1332:TYR:O	2.25	0.88
1:K:205:LEU:HD21	1:K:1290:GLU:OE2	1.73	0.88
1:L:288:LEU:O	1:L:292:PHE:O	1.90	0.88
1:L:889:PRO:HD3	4:q:69:ALA:HB1	0.90	0.88
1:M:1118:PRO:HG3	1:M:1122:MET:HE1	1.55	0.88
1:O:842:MET:CE	4:s:61:LEU:CD1	2.49	0.88
1:O:1221:ASP:OD1	1:O:1222:VAL:HG23	1.73	0.88
2:T:33:PHE:HB3	2:T:70:ARG:CD	2.02	0.88
2:W:33:PHE:HB3	2:W:70:ARG:CD	2.02	0.88
2:W:272:TYR:CE2	2:X:161:ARG:CB	2.56	0.88
3:b:313:VAL:HG21	3:b:330:VAL:HG11	1.54	0.88
2:d:14:SER:O	2:d:16:ILE:CG1	2.21	0.88
1:G:1165:VAL:CG1	2:R:240:LEU:HD12	2.03	0.88
1:A:289:LEU:CD2	1:A:377:LEU:CD2	2.51	0.88
1:A:421:GLY:O	1:F:419:HIS:CD2	2.26	0.88
1:A:481:VAL:O	1:A:569:GLY:O	1.90	0.88
1:D:445:LYS:HD2	1:D:1118:PRO:CG	2.03	0.88
1:F:541:LEU:HD21	1:F:571:ILE:HD11	1.55	0.88
1:J:665:VAL:O	1:J:812:TYR:OH	1.89	0.88
1:N:1300:VAL:HG22	1:N:1318:ARG:HE	1.35	0.88
1:O:553:VAL:HG21	1:O:556:VAL:HG11	1.53	0.88
2:Z:33:PHE:HB3	2:Z:70:ARG:CD	2.02	0.88

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:e:296:LEU:HD22	3:e:450:VAL:HG11	1.54	0.88
3:e:299:GLU:HB3	3:e:332:SER:HB3	1.53	0.88
1:A:1229:HIS:HD2	1:A:1241:THR:HG23	1.10	0.88
1:D:293:LEU:HD12	1:D:293:LEU:O	1.74	0.88
1:D:1324:PRO:HG2	1:D:1332:TYR:OH	1.73	0.88
1:L:110:HIS:O	2:c:38:ARG:NH1	2.06	0.88
1:M:75:LEU:HD11	1:M:185:LEU:CD1	2.01	0.88
1:P:148:LEU:HD21	1:P:155:LEU:HA	1.55	0.88
1:P:730:ALA:HB2	1:P:750:ARG:NH1	1.88	0.88
3:S:314:PHE:O	3:S:420:ALA:HA	1.73	0.88
2:T:104:SER:HB3	2:T:105:PRO:CD	2.04	0.88
2:W:296:ARG:CG	2:W:318:PRO:C	2.46	0.88
1:A:1321:VAL:HG13	1:A:1322:GLU:H	1.39	0.88
1:I:486:PRO:HG3	1:I:564:PRO:CG	2.01	0.88
1:I:1067:GLU:HB3	1:I:1107:THR:HG23	1.56	0.88
1:K:268:ASP:CB	1:K:301:ASP:HB3	2.02	0.88
1:L:847:ILE:CG2	4:q:71:ASN:HA	2.03	0.88
1:O:456:ASN:OD1	1:O:1126:PRO:HG3	1.73	0.88
2:Q:33:PHE:HB3	2:Q:70:ARG:CD	2.02	0.88
3:V:314:PHE:O	3:V:420:ALA:HA	1.73	0.88
3:Y:436:LEU:CD2	3:Y:450:VAL:HG22	1.93	0.88
2:a:23:ALA:HA	2:a:26:ARG:NH1	1.88	0.88
1:F:532:MET:C	1:F:534:PRO:HD2	1.99	0.88
1:F:638:GLU:OE2	1:F:677:TYR:OH	1.90	0.88
1:I:77:VAL:O	1:I:1068:ARG:O	1.90	0.88
1:J:435:PHE:HB2	1:J:436:PRO:HD2	1.56	0.88
1:N:846:GLU:OE2	4:r:67:THR:OG1	1.91	0.88
1:P:148:LEU:HD23	1:P:154:SER:O	1.72	0.88
2:T:296:ARG:CG	2:T:318:PRO:C	2.46	0.88
2:W:177:ASN:ND2	2:W:189:VAL:HG23	1.88	0.88
2:Z:68:ARG:O	2:a:296:ARG:NH1	2.07	0.88
2:a:35:PRO:HG2	2:a:45:ASP:O	1.73	0.88
1:B:534:PRO:HG3	1:C:1154:GLY:O	1.73	0.88
1:C:842:MET:HE3	4:i:61:LEU:HD11	1.54	0.88
1:N:1086:GLY:HA2	2:T:99:ASN:HD21	1.36	0.88
1:O:77:VAL:HA	1:O:266:HIS:NE2	1.88	0.88
1:O:299:GLU:O	1:O:364:ARG:HD2	1.73	0.88
3:S:300:LEU:CG	3:S:332:SER:HB2	2.02	0.88
2:W:104:SER:HB3	2:W:105:PRO:CD	2.04	0.88
3:b:300:LEU:HD21	3:b:333:GLN:HG2	1.56	0.88
1:A:90:MET:HE1	1:B:31:SER:HB3	1.51	0.88

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:269:THR:H	1:A:300:ALA:HB3	1.38	0.88
1:A:530:GLN:HG3	1:A:536:ASN:HD21	0.72	0.88
2:U:17:SER:O	2:U:20:ASP:N	2.07	0.88
2:W:68:ARG:O	2:X:296:ARG:NH1	2.07	0.88
2:Z:179:LEU:CD2	2:Z:186:LEU:HD23	2.04	0.88
3:b:190:LEU:HD12	3:b:245:MET:HE3	0.89	0.88
1:A:730:ALA:HB2	1:A:750:ARG:HH12	1.38	0.88
1:J:406:LEU:HD11	1:J:452:LEU:HB3	1.53	0.88
1:N:99:VAL:HG22	1:N:120:MET:CE	2.03	0.88
1:O:759:GLY:HA3	1:O:781:GLY:HA2	1.55	0.88
3:V:296:LEU:HD22	3:V:450:VAL:HG11	1.54	0.88
2:a:96:GLY:O	2:a:97:THR:OG1	1.89	0.88
3:b:279:PRO:HG3	3:b:283:CYS:O	1.74	0.88
1:A:357:ALA:HB3	1:A:359:GLN:HE21	1.39	0.88
1:B:234:LEU:HB3	1:B:1113:ALA:HB1	1.55	0.88
1:H:758:ALA:CB	1:H:781:GLY:HA2	2.03	0.88
1:I:83:LYS:HE2	3:Y:41:ILE:CG2	2.04	0.88
1:J:1278:THR:O	1:J:1282:ILE:CD1	2.21	0.88
1:K:956:TYR:CE1	1:K:958:LEU:HB2	2.09	0.88
1:K:1267:SER:O	1:K:1312:LYS:NZ	2.07	0.88
1:M:429:HIS:HB3	1:M:430:PRO:CD	2.02	0.88
2:a:73:ALA:HB2	2:a:87:PRO:CA	2.03	0.88
4:g:22:MET:HE3	4:g:60:ALA:CB	1.98	0.88
4:g:22:MET:HE2	4:g:60:ALA:HB3	1.51	0.88
4:r:22:MET:HE3	4:r:60:ALA:CB	1.98	0.88
1:A:289:LEU:HD21	1:A:377:LEU:HD21	1.53	0.88
1:H:141:ALA:O	1:H:146:GLU:HB2	1.72	0.88
1:I:77:VAL:HB	1:I:266:HIS:CE1	2.07	0.88
1:J:465:SER:OG	1:J:1252:TYR:HE1	1.56	0.88
1:L:842:MET:CG	4:q:61:LEU:HD22	2.03	0.88
1:M:842:MET:HG2	4:f:61:LEU:CD2	2.03	0.88
3:S:296:LEU:HD22	3:S:450:VAL:HG11	1.54	0.88
2:a:157:ALA:HA	2:a:160:ILE:HG12	1.53	0.88
2:c:296:ARG:CG	2:c:318:PRO:C	2.47	0.88
4:f:22:MET:HE3	4:f:60:ALA:CB	1.98	0.88
4:m:99:SER:O	4:m:100:PRO:CB	2.20	0.88
1:A:867:PRO:HB3	4:h:80:ALA:HB3	1.55	0.87
1:A:892:LEU:HD11	4:g:65:GLY:CA	2.04	0.87
1:A:1229:HIS:NE2	1:A:1241:THR:CG2	2.36	0.87
1:B:814:TYR:O	1:B:818:PRO:HG2	1.74	0.87
1:B:829:GLY:HA3	1:B:956:TYR:CE2	2.09	0.87

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:413:MET:HE3	1:I:433:ARG:NH2	1.88	0.87
1:K:834:ARG:CG	4:q:94:LEU:CB	2.52	0.87
1:P:581:ASN:HD21	1:P:1003:ARG:H	1.17	0.87
3:V:39:PRO:CG	3:V:41:ILE:HD13	2.04	0.87
3:V:127:ALA:HB1	3:V:286:VAL:HG22	1.53	0.87
2:a:5:CYS:CB	2:a:94:HIS:HE2	1.86	0.87
2:a:10:ILE:HD11	2:a:32:VAL:HG21	1.55	0.87
2:c:68:ARG:O	2:d:296:ARG:NH1	2.07	0.87
2:c:92:LEU:HD11	2:c:95:ALA:HB3	1.57	0.87
1:A:29:VAL:O	1:A:30:ALA:HB3	1.71	0.87
1:C:769:CYS:HB3	1:C:786:ASN:HD21	1.39	0.87
1:D:538:ASN:O	1:D:540:ALA:N	2.07	0.87
1:J:402:PHE:CE1	1:J:1333:PRO:O	2.27	0.87
1:K:155:LEU:O	1:K:158:GLN:HG2	1.73	0.87
1:L:83:LYS:HG3	3:Y:79:THR:CG2	2.02	0.87
1:N:1057:ARG:O	1:N:1118:PRO:O	1.92	0.87
2:Q:181:TYR:CE2	2:Q:182:ASN:ND2	2.42	0.87
2:R:13:PRO:HD3	2:R:43:LEU:HD23	1.07	0.87
3:Y:289:PRO:HA	3:Y:450:VAL:O	1.75	0.87
3:Y:296:LEU:HG	3:Y:296:LEU:O	1.74	0.87
4:t:22:MET:O	4:t:25:LEU:HB2	1.74	0.87
1:G:1279:ALA:O	1:G:1283:THR:CB	2.22	0.87
1:A:563:VAL:HG12	1:A:564:PRO:HD2	1.54	0.87
1:C:1229:HIS:HE2	1:C:1241:THR:HG21	0.94	0.87
1:E:266:HIS:ND1	1:E:266:HIS:O	2.07	0.87
1:F:1218:LYS:HE2	1:F:1218:LYS:HA	1.56	0.87
1:J:466:LEU:O	1:J:547:PHE:HE2	1.55	0.87
1:J:717:GLN:NE2	1:J:750:ARG:NH1	1.81	0.87
1:K:132:ALA:HB2	1:P:112:VAL:HG11	1.56	0.87
1:M:266:HIS:CB	1:M:303:PRO:HA	2.01	0.87
1:O:320:LEU:HD13	1:P:14:ALA:HB1	1.54	0.87
1:P:29:VAL:O	1:P:29:VAL:CG1	2.22	0.87
1:P:834:ARG:CG	4:p:94:LEU:CB	2.51	0.87
3:S:134:LEU:HD12	3:S:244:VAL:HG12	1.55	0.87
2:a:161:ARG:NE	2:a:173:LEU:HD23	1.88	0.87
3:b:188:ASN:ND2	3:b:207:VAL:CG1	2.38	0.87
3:b:279:PRO:CG	3:b:283:CYS:O	2.22	0.87
3:e:292:ALA:HB3	3:e:295:ASP:H	1.38	0.87
1:A:208:GLY:O	1:A:209:ARG:HB2	1.73	0.87
1:B:920:THR:O	1:B:1139:LEU:CD1	2.23	0.87
1:J:399:ASP:O	1:J:1324:PRO:HG2	1.73	0.87

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:530:GLN:C	1:K:536:ASN:ND2	2.32	0.87
1:M:14:ALA:O	1:M:16:ALA:O	1.91	0.87
1:P:433:ARG:NH2	1:P:1339:ASP:OD2	2.05	0.87
3:S:289:PRO:HA	3:S:450:VAL:O	1.75	0.87
3:V:79:THR:O	3:V:83:THR:HG22	1.74	0.87
2:Z:218:THR:O	2:Z:222:THR:HG22	1.74	0.87
2:Z:298:CYS:SG	3:b:109:HIS:NE2	2.48	0.87
1:B:252:THR:HG22	1:B:373:ARG:HD2	1.53	0.87
1:B:404:LEU:HD11	1:B:1334:ILE:HD11	1.53	0.87
1:H:124:ILE:HA	1:H:1100:VAL:HG23	1.56	0.87
1:J:299:GLU:O	1:J:365:ALA:O	1.92	0.87
1:P:1218:LYS:CD	1:P:1221:ASP:OD1	2.22	0.87
3:V:128:GLY:CA	3:V:287:THR:O	2.19	0.87
3:V:300:LEU:HD11	3:V:332:SER:C	2.00	0.87
3:Y:292:ALA:HB3	3:Y:295:ASP:H	1.38	0.87
4:l:16:ASN:CA	4:l:20:LEU:HD23	2.05	0.87
4:p:22:MET:O	4:p:25:LEU:HB2	1.75	0.87
1:A:380:LEU:O	1:A:381:GLU:HG2	1.75	0.87
1:A:842:MET:HE3	4:g:61:LEU:CD1	2.04	0.87
1:C:109:PRO:HA	2:X:40:GLN:HG2	1.54	0.87
1:J:738:ASP:CB	1:J:785:HIS:HE1	1.87	0.87
1:K:675:VAL:HA	1:K:687:MET:HE1	1.57	0.87
1:M:77:VAL:CG1	1:M:277:VAL:HG22	2.05	0.87
1:M:1190:THR:HG22	1:M:1243:ASN:ND2	1.90	0.87
1:O:71:LEU:HD21	1:O:306:TYR:CE1	2.10	0.87
1:O:946:ASP:C	1:O:947:HIS:CD2	2.52	0.87
1:P:759:GLY:HA3	1:P:780:ASP:CA	2.04	0.87
3:b:130:LEU:HB3	3:b:187:PHE:CB	2.04	0.87
3:b:140:LEU:N	3:b:141:PRO:HA	1.89	0.87
2:d:107:ASP:OD1	2:d:306:VAL:O	1.93	0.87
4:l:22:MET:O	4:l:25:LEU:HB2	1.74	0.87
4:p:18:ARG:HA	4:p:56:GLY:CA	2.04	0.87
1:B:1115:VAL:HB	1:B:1374:LEU:HD21	1.57	0.87
1:C:873:ASN:OD1	4:j:92:PHE:CB	2.21	0.87
1:E:956:TYR:CE1	1:E:958:LEU:CD1	2.58	0.87
1:H:276:GLY:HA2	1:H:1067:GLU:HA	1.57	0.87
1:I:740:ASP:OD1	1:I:785:HIS:HE1	1.57	0.87
1:I:754:CYS:SG	1:I:908:LEU:HD11	2.15	0.87
1:J:722:LEU:CD2	1:J:915:ASP:OD2	2.23	0.87
1:K:950:GLN:O	1:K:953:GLU:OE2	1.92	0.87
1:P:532:MET:HG3	1:P:534:PRO:HD2	1.55	0.87

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:296:ARG:CG	2:Q:318:PRO:C	2.46	0.87
2:R:13:PRO:CD	2:R:43:LEU:HD22	1.86	0.87
3:S:287:THR:C	3:S:289:PRO:CD	2.48	0.87
3:S:296:LEU:O	3:S:296:LEU:HG	1.74	0.87
3:Y:437:HIS:O	3:Y:449:VAL:HG12	1.74	0.87
2:Z:295:VAL:HG11	2:Z:314:VAL:HG12	0.89	0.87
1:C:769:CYS:HB3	1:C:786:ASN:ND2	1.90	0.87
1:D:1169:ALA:O	1:D:1170:GLN:O	1.93	0.87
1:E:840:GLN:NE2	4:k:58:ALA:CB	2.24	0.87
1:J:234:LEU:HD13	1:J:244:ILE:HG23	1.56	0.87
1:J:844:VAL:HG12	4:o:68:HIS:CB	2.03	0.87
1:K:591:PHE:HZ	1:K:1045:HIS:CD2	1.93	0.87
1:K:957:VAL:HG12	1:K:957:VAL:O	1.72	0.87
1:L:269:THR:HG22	1:L:298:THR:CB	2.02	0.87
1:L:1080:VAL:HG22	1:L:1093:LEU:CD2	2.05	0.87
2:Q:92:LEU:HD11	2:Q:95:ALA:HB3	1.56	0.87
2:T:68:ARG:O	2:U:296:ARG:NH1	2.07	0.87
2:X:107:ASP:OD1	2:X:306:VAL:O	1.93	0.87
2:a:5:CYS:SG	2:a:94:HIS:NE2	2.47	0.87
1:A:195:LEU:HD13	1:A:195:LEU:C	1.98	0.87
1:E:591:PHE:HZ	1:E:1045:HIS:HD2	1.23	0.87
1:F:846:GLU:CD	4:l:67:THR:OG1	2.18	0.87
1:H:530:GLN:HG3	1:H:536:ASN:ND2	1.88	0.87
1:H:841:ASN:HB2	4:m:57:GLN:HE22	1.38	0.87
1:K:1225:LEU:HD12	1:L:1176:GLY:HA3	1.57	0.87
1:L:111:PRO:HA	2:c:38:ARG:HH22	1.39	0.87
2:Q:68:ARG:O	2:R:296:ARG:NH1	2.07	0.87
2:Q:160:ILE:HD11	2:Q:206:VAL:HG13	1.52	0.87
4:k:22:MET:O	4:k:25:LEU:HB2	1.74	0.87
1:G:832:PHE:CG	1:G:836:TYR:HE2	1.93	0.86
1:G:1165:VAL:HG22	2:R:240:LEU:C	2.00	0.86
1:A:208:GLY:HA2	1:B:389:ASN:HA	1.56	0.86
1:B:23:ILE:HD12	1:B:65:LEU:HG	1.57	0.86
1:B:1217:ASP:N	1:B:1221:ASP:OD2	2.06	0.86
1:H:269:THR:HB	1:H:298:THR:HB	1.55	0.86
1:I:842:MET:HE3	4:n:61:LEU:HD11	1.31	0.86
1:J:840:GLN:OE1	4:o:58:ALA:CB	2.22	0.86
1:M:520:TRP:HZ3	1:M:1004:GLN:OE1	1.58	0.86
1:P:151:THR:HG23	1:P:154:SER:N	1.90	0.86
1:P:1095:GLN:HE21	1:P:1097:ARG:HH21	1.23	0.86
2:Q:104:SER:HB3	2:Q:105:PRO:CD	2.04	0.86

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U:38:ARG:CD	3:V:305:PRO:O	2.22	0.86
2:X:13:PRO:CG	2:X:133:LEU:CD1	2.53	0.86
4:g:22:MET:O	4:g:25:LEU:HB2	1.74	0.86
4:m:10:SER:N	4:m:17:VAL:CB	2.37	0.86
4:m:22:MET:O	4:m:25:LEU:HB2	1.74	0.86
1:G:126:ARG:HH12	2:Q:82:ARG:NH1	1.72	0.86
1:A:467:MET:HE1	1:A:575:TRP:NE1	1.89	0.86
1:B:956:TYR:CZ	1:B:958:LEU:CD1	2.51	0.86
1:D:119:TYR:CG	1:I:13:TYR:OH	2.28	0.86
1:H:269:THR:CB	1:H:298:THR:HG21	2.06	0.86
1:H:1056:ASP:OD1	1:H:1120:THR:CG2	2.23	0.86
1:I:1166:PHE:HZ	2:W:284:GLN:HB2	1.39	0.86
1:J:778:ARG:O	1:J:904:ARG:NE	2.08	0.86
1:J:842:MET:HG2	4:o:61:LEU:HD21	1.57	0.86
1:K:1222:VAL:O	1:K:1223:ILE:HG12	1.73	0.86
1:N:1300:VAL:HG21	1:N:1318:ARG:NE	1.89	0.86
1:O:534:PRO:HB3	1:P:1154:GLY:C	1.99	0.86
1:O:846:GLU:OE2	4:s:67:THR:OG1	1.93	0.86
1:O:1068:ARG:HG2	1:O:1069:ALA:H	1.39	0.86
2:a:107:ASP:OD1	2:a:306:VAL:O	1.93	0.86
3:e:289:PRO:HA	3:e:450:VAL:O	1.74	0.86
4:s:22:MET:O	4:s:25:LEU:HB2	1.75	0.86
1:G:94:ARG:HD3	1:G:121:THR:HG21	1.56	0.86
1:E:1059:VAL:HG23	1:E:1119:VAL:HG21	1.53	0.86
1:K:530:GLN:C	1:K:536:ASN:HD22	1.82	0.86
1:M:841:ASN:OD1	4:f:26:VAL:HG22	1.75	0.86
2:U:107:ASP:OD1	2:U:306:VAL:O	1.93	0.86
2:Z:180:TYR:HB3	2:Z:184:ALA:O	1.74	0.86
4:r:22:MET:O	4:r:25:LEU:HB2	1.74	0.86
1:C:1085:THR:CB	1:C:1090:ASN:OD1	2.23	0.86
1:L:488:GLY:N	1:L:520:TRP:CH2	2.35	0.86
1:M:889:PRO:CD	4:f:69:ALA:HB1	2.03	0.86
1:M:1225:LEU:CD2	1:M:1234:PRO:CG	2.54	0.86
1:N:534:PRO:CG	1:N:1230:GLY:HA2	2.04	0.86
1:N:840:GLN:OE1	4:r:58:ALA:CB	2.24	0.86
4:j:22:MET:O	4:j:25:LEU:HB2	1.74	0.86
4:o:21:GLY:O	4:o:23:ARG:N	2.08	0.86
1:A:558:LEU:O	1:A:560:GLY:N	2.06	0.86
1:J:295:VAL:HG11	1:J:369:ALA:H	1.40	0.86
1:J:463:HIS:CD2	1:J:464:PRO:HD2	2.10	0.86
1:K:1074:PHE:CZ	1:L:58:LEU:HD23	2.10	0.86

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:426:ALA:HB3	1:L:429:HIS:CD2	2.11	0.86
1:L:841:ASN:CB	4:q:57:GLN:NE2	2.38	0.86
1:L:873:ASN:OD1	4:f:92:PHE:CB	2.24	0.86
1:M:1202:PRO:O	1:M:1330:GLU:HB3	1.74	0.86
1:M:1225:LEU:CD2	1:M:1234:PRO:HG2	2.05	0.86
1:O:946:ASP:C	1:O:947:HIS:HD2	1.83	0.86
1:P:267:ALA:HB1	1:P:274:VAL:N	1.90	0.86
3:S:106:PRO:O	3:S:107:ARG:HG2	1.76	0.86
3:V:39:PRO:CG	3:V:41:ILE:CD1	2.53	0.86
2:d:161:ARG:NH1	2:d:174:PRO:CG	2.38	0.86
3:e:120:CYS:HB2	3:e:184:LEU:O	1.75	0.86
4:f:22:MET:O	4:f:25:LEU:HB2	1.74	0.86
1:G:302:VAL:HG22	1:G:303:PRO:HD2	1.57	0.86
1:G:1299:ALA:HA	1:G:1323:ASP:HB3	1.56	0.86
1:H:266:HIS:ND1	1:H:266:HIS:O	2.08	0.86
1:I:740:ASP:OD1	1:I:785:HIS:CE1	2.28	0.86
1:I:889:PRO:HD3	4:n:69:ALA:HB1	1.57	0.86
1:J:485:ASN:ND2	1:J:516:GLY:CA	2.37	0.86
3:S:292:ALA:HB3	3:S:295:ASP:H	1.38	0.86
2:a:30:ARG:C	2:a:75:ILE:HD13	2.00	0.86
2:a:94:HIS:CE1	2:a:98:VAL:HB	2.10	0.86
3:e:287:THR:C	3:e:289:PRO:CD	2.48	0.86
1:G:36:PHE:N	1:G:37:ASP:HA	1.90	0.86
1:G:367:LEU:HD13	1:G:374:LEU:HD21	1.58	0.86
1:E:956:TYR:CD1	1:E:958:LEU:HG	2.10	0.86
1:H:1218:LYS:NZ	1:I:1173:ARG:NE	2.23	0.86
1:I:269:THR:HG21	1:I:374:LEU:HD21	1.56	0.86
1:J:751:HIS:CE1	1:J:754:CYS:HB2	2.11	0.86
1:J:1271:SER:O	1:J:1274:PHE:N	2.08	0.86
3:V:288:ILE:HG21	3:V:457:TRP:CH2	2.11	0.86
3:Y:437:HIS:CA	3:Y:449:VAL:O	2.24	0.86
4:q:22:MET:O	4:q:25:LEU:HB2	1.74	0.86
1:A:112:VAL:CG1	1:B:132:ALA:HB2	2.06	0.86
1:H:728:ASP:O	1:H:810:LYS:NZ	2.08	0.86
1:I:266:HIS:ND1	1:I:266:HIS:O	2.07	0.86
1:J:234:LEU:HD11	1:J:244:ILE:CG2	2.03	0.86
1:N:98:GLU:OE1	1:O:62:CYS:SG	2.34	0.86
1:N:403:VAL:HG23	1:N:1331:ALA:CB	2.06	0.86
1:N:429:HIS:HB3	1:N:430:PRO:CD	2.06	0.86
1:N:919:ASN:O	1:N:920:THR:OG1	1.93	0.86
1:P:914:PRO:HB2	1:P:919:ASN:HB3	1.56	0.86

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:W:272:TYR:CD2	2:X:161:ARG:CB	2.59	0.86
3:Y:287:THR:C	3:Y:289:PRO:CD	2.48	0.86
2:Z:108:LEU:HD13	3:b:136:HIS:CE1	2.11	0.86
3:e:288:ILE:HG21	3:e:457:TRP:CH2	2.11	0.86
3:e:318:GLN:OE1	3:e:352:ILE:CG1	2.22	0.86
1:A:1226:MET:SD	1:A:1279:ALA:HB2	2.15	0.86
1:E:85:PRO:HD2	1:E:86:GLU:OE1	1.74	0.86
1:F:768:ALA:HA	1:F:786:ASN:CG	1.99	0.86
1:H:302:VAL:N	1:H:303:PRO:HD3	1.89	0.86
1:H:413:MET:HE2	1:I:1339:ASP:OD1	1.74	0.86
1:J:466:LEU:HD12	1:J:1033:PRO:HD3	1.56	0.86
1:L:534:PRO:HB3	1:M:1154:GLY:HA3	1.56	0.86
1:O:103:LEU:HD21	1:O:115:PRO:HD3	1.57	0.86
2:R:66:ALA:O	2:R:69:ARG:O	1.94	0.86
2:R:107:ASP:OD1	2:R:306:VAL:O	1.93	0.86
2:U:66:ALA:O	2:U:69:ARG:O	1.94	0.86
2:W:104:SER:CB	2:W:105:PRO:CD	2.54	0.86
3:Y:106:PRO:O	3:Y:107:ARG:HG2	1.76	0.86
3:Y:210:HIS:NE2	3:Y:442:PHE:HB3	1.91	0.86
3:e:128:GLY:CA	3:e:287:THR:O	2.19	0.86
1:A:269:THR:HB	1:A:362:ARG:HH12	1.40	0.86
1:F:842:MET:HG2	4:l:61:LEU:HD21	1.56	0.86
1:I:122:LYS:NZ	1:L:35:LEU:CD1	2.37	0.86
1:I:525:GLN:NE2	1:I:536:ASN:HA	1.90	0.86
1:L:768:ALA:HA	1:L:786:ASN:CG	2.01	0.86
1:O:881:ASN:OD1	4:t:89:ARG:O	1.93	0.86
4:o:22:MET:O	4:o:25:LEU:HB2	1.74	0.86
1:F:1278:THR:O	1:F:1282:ILE:HD12	1.75	0.85
1:H:729:PRO:O	1:H:745:HIS:ND1	2.07	0.85
1:J:268:ASP:HA	1:J:301:ASP:HB2	0.87	0.85
1:J:837:ALA:CA	4:o:54:LEU:HD21	2.04	0.85
2:Q:296:ARG:HG3	2:Q:318:PRO:CA	2.06	0.85
2:T:104:SER:CB	2:T:105:PRO:CD	2.54	0.85
3:V:296:LEU:O	3:V:296:LEU:HG	1.74	0.85
3:Y:207:VAL:HG22	3:Y:447:VAL:HG11	1.56	0.85
2:a:161:ARG:CD	2:a:173:LEU:HB3	2.06	0.85
4:s:90:PRO:CB	4:s:103:VAL:CB	2.54	0.85
1:A:321:VAL:CG1	1:A:326:VAL:CB	2.53	0.85
1:D:77:VAL:O	1:D:1068:ARG:O	1.94	0.85
1:E:1059:VAL:HG23	1:E:1119:VAL:CG2	2.05	0.85
1:H:510:ARG:HE	1:H:977:PRO:HB3	1.39	0.85

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:948:THR:HA	4:n:103:VAL:CB	2.06	0.85
1:I:124:ILE:HD13	1:I:1100:VAL:HG23	1.54	0.85
1:I:840:GLN:O	1:I:842:MET:HE2	1.75	0.85
1:J:889:PRO:CD	4:o:69:ALA:HB1	2.03	0.85
1:K:837:ALA:HA	4:p:54:LEU:HD21	0.87	0.85
1:O:1152:VAL:HG13	1:O:1159:PRO:HD2	1.57	0.85
1:P:205:LEU:HD11	1:P:1290:GLU:OE2	1.76	0.85
3:V:39:PRO:HG2	3:V:41:ILE:CD1	2.06	0.85
3:b:112:ARG:HG3	3:b:264:THR:CG2	2.06	0.85
1:E:665:VAL:O	1:E:812:TYR:OH	1.94	0.85
1:F:467:MET:HE1	1:F:575:TRP:HE1	1.39	0.85
1:I:525:GLN:NE2	1:I:536:ASN:CA	2.38	0.85
1:J:1256:LEU:HD23	1:J:1263:LEU:HD21	0.97	0.85
1:K:269:THR:HB	1:K:272:ARG:HG2	1.56	0.85
1:N:842:MET:CE	4:r:61:LEU:HD11	2.02	0.85
2:T:296:ARG:HG3	2:T:318:PRO:CA	2.06	0.85
3:V:287:THR:C	3:V:289:PRO:CD	2.47	0.85
3:V:317:ARG:CB	3:V:324:LEU:H	1.89	0.85
2:X:66:ALA:O	2:X:69:ARG:O	1.94	0.85
2:Z:219:LEU:HD23	2:Z:220:ILE:N	1.90	0.85
3:e:317:ARG:CB	3:e:324:LEU:H	1.89	0.85
4:k:10:SER:H	4:k:17:VAL:CB	1.88	0.85
4:q:10:SER:N	4:q:17:VAL:CB	2.39	0.85
4:t:17:VAL:N	4:t:20:LEU:HD12	1.91	0.85
1:A:918:ALA:HB2	1:A:1032:SER:CB	2.06	0.85
1:C:769:CYS:CB	1:C:786:ASN:ND2	2.38	0.85
1:C:1134:GLY:O	1:C:1263:LEU:HD22	1.76	0.85
1:D:248:LEU:HD23	1:D:293:LEU:HD23	1.56	0.85
1:D:322:MET:HE3	1:H:324:LYS:HB2	1.58	0.85
1:F:768:ALA:CA	1:F:786:ASN:HB3	2.06	0.85
1:H:1097:ARG:HH11	1:H:1097:ARG:HG2	1.39	0.85
1:K:183:GLN:HE22	1:K:1097:ARG:HD2	1.41	0.85
1:K:280:THR:HG21	1:K:284:ILE:HG22	1.57	0.85
1:M:1037:TYR:CE1	1:M:1147:LEU:HD11	2.12	0.85
3:V:80:ARG:O	3:V:84:GLU:N	2.10	0.85
4:t:6:PHE:CB	4:t:10:SER:CB	2.54	0.85
1:A:231:SER:O	1:A:1112:THR:O	1.93	0.85
1:C:213:ARG:NH2	1:D:1173:ARG:NH1	2.23	0.85
1:C:766:ALA:HB3	1:C:784:LEU:CD2	2.07	0.85
1:F:1085:THR:CG2	1:F:1090:ASN:OD1	2.13	0.85
1:I:97:PHE:CE2	1:I:122:LYS:HD2	2.11	0.85

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:853:CYS:HB2	4:n:69:ALA:O	1.77	0.85
1:J:738:ASP:CB	1:J:785:HIS:CE1	2.58	0.85
1:K:883:ARG:HH11	1:L:681:ASP:CB	1.90	0.85
1:M:842:MET:CE	4:f:61:LEU:CD1	2.54	0.85
2:Q:104:SER:CB	2:Q:105:PRO:CD	2.54	0.85
3:V:275:HIS:CD2	3:V:280:GLY:CA	2.60	0.85
1:B:153:ILE:O	1:B:157:ARG:CB	2.25	0.85
1:I:269:THR:HG23	1:I:374:LEU:HD21	1.55	0.85
1:L:768:ALA:C	1:L:786:ASN:ND2	2.35	0.85
2:Q:33:PHE:CB	2:Q:70:ARG:HD2	2.07	0.85
3:S:288:ILE:HG21	3:S:457:TRP:CH2	2.11	0.85
2:T:92:LEU:HD11	2:T:95:ALA:HB3	1.56	0.85
3:V:106:PRO:O	3:V:107:ARG:HG2	1.76	0.85
2:Z:33:PHE:CB	2:Z:70:ARG:HD2	2.07	0.85
2:Z:267:ARG:O	2:Z:271:LEU:HG	1.76	0.85
2:a:66:ALA:O	2:a:69:ARG:O	1.94	0.85
3:b:314:PHE:O	3:b:420:ALA:HA	1.77	0.85
3:b:324:LEU:HD12	3:b:325:CYS:N	1.90	0.85
3:e:296:LEU:O	3:e:296:LEU:HG	1.74	0.85
1:C:766:ALA:HB3	1:C:784:LEU:HD22	1.58	0.85
1:C:1036:LEU:HD13	1:C:1036:LEU:C	1.98	0.85
1:J:400:LEU:HD22	1:J:1369:LEU:HD23	1.57	0.85
1:K:778:ARG:CD	1:K:903:GLU:HG3	2.07	0.85
1:K:918:ALA:HB2	1:K:1032:SER:CB	2.06	0.85
1:L:790:ARG:NH1	4:q:103:VAL:O	2.09	0.85
1:O:1266:ALA:N	2:a:54:GLY:HA3	1.90	0.85
1:P:563:VAL:HG13	1:P:564:PRO:HD2	1.57	0.85
3:V:161:TRP:HH2	3:V:165:LEU:HD12	1.41	0.85
3:b:313:VAL:CG2	3:b:330:VAL:HG11	2.06	0.85
2:c:33:PHE:CB	2:c:70:ARG:HD2	2.07	0.85
3:e:331:LYS:NZ	3:e:434:ARG:HD2	1.92	0.85
4:s:9:PRO:HA	4:s:18:ARG:H	1.41	0.85
1:G:304:VAL:HG11	1:G:358:PRO:O	1.76	0.85
1:A:918:ALA:HB2	1:A:1032:SER:HB3	1.58	0.85
1:C:842:MET:HE3	4:i:61:LEU:CD1	2.06	0.85
1:D:582:LEU:HD11	1:D:1031:MET:HE1	1.57	0.85
1:I:463:HIS:HD2	1:I:464:PRO:HD2	1.34	0.85
1:K:417:ALA:HB2	1:K:1358:PHE:CE1	2.11	0.85
1:K:439:GLN:NE2	1:K:451:ARG:CZ	2.40	0.85
1:L:268:ASP:CB	1:L:301:ASP:HB2	2.07	0.85
1:M:71:LEU:HD11	1:M:306:TYR:CE1	2.11	0.85

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:77:VAL:O	1:M:1068:ARG:O	1.95	0.85
1:P:558:LEU:HD11	1:P:999:PHE:CZ	2.11	0.85
2:U:298:CYS:O	2:U:313:PRO:HB2	1.77	0.85
3:Y:141:PRO:CG	3:Y:157:LEU:HB3	2.01	0.85
3:b:242:HIS:HB3	3:b:314:PHE:CD2	2.11	0.85
3:b:292:ALA:HB2	3:b:295:ASP:HB2	0.85	0.85
4:p:18:ARG:O	4:p:20:LEU:CD1	2.24	0.85
1:G:1198:TYR:CD2	1:G:1236:ARG:NH1	2.45	0.85
1:A:1245:TRP:C	1:A:1251:SER:OG	2.20	0.85
1:E:814:TYR:O	1:E:818:PRO:HG2	1.77	0.85
1:E:1229:HIS:NE2	1:E:1241:THR:HG21	1.91	0.85
1:J:84:PHE:HE2	1:J:90:MET:CE	1.89	0.85
1:J:402:PHE:HB3	1:J:1332:TYR:O	1.76	0.85
1:K:591:PHE:CZ	1:K:1045:HIS:CD2	2.64	0.85
1:O:77:VAL:CB	1:O:266:HIS:CE1	2.58	0.85
2:W:182:ASN:O	3:Y:138:THR:HG21	1.76	0.85
2:X:298:CYS:O	2:X:313:PRO:HB2	1.77	0.85
3:Y:88:ASP:O	3:Y:91:LEU:N	2.10	0.85
1:G:751:HIS:NE2	1:G:754:CYS:HB2	1.92	0.85
1:B:275:ASP:OD2	1:B:373:ARG:NH2	2.09	0.85
1:I:847:ILE:HG21	4:n:70:ASN:C	2.02	0.85
1:I:956:TYR:CE1	1:I:958:LEU:CD1	2.54	0.85
1:J:75:LEU:HA	1:J:277:VAL:HG11	0.93	0.85
1:J:234:LEU:CD1	1:J:244:ILE:CG2	2.54	0.85
1:J:707:PHE:CD1	1:J:1044:LEU:HD23	2.11	0.85
1:J:743:MET:SD	1:J:797:ASP:CA	2.64	0.85
1:K:124:ILE:HD12	1:L:58:LEU:CD2	1.97	0.85
1:K:183:GLN:HE21	1:K:1073:TYR:HH	1.22	0.85
1:L:261:VAL:HG23	1:L:1068:ARG:HH12	1.42	0.85
1:L:486:PRO:CG	1:L:564:PRO:HG2	2.05	0.85
2:T:33:PHE:CB	2:T:70:ARG:HD2	2.07	0.85
2:W:268:ARG:CB	2:X:166:ASP:OD2	2.24	0.85
3:Y:198:TYR:CE1	3:Y:294:VAL:HG12	2.12	0.85
2:Z:92:LEU:HD11	2:Z:95:ALA:HB3	1.56	0.85
2:a:5:CYS:HB2	2:a:94:HIS:HE2	1.42	0.85
2:d:298:CYS:O	2:d:313:PRO:HB2	1.77	0.85
1:G:248:LEU:HD21	1:G:293:LEU:HD13	1.57	0.84
1:G:1313:ARG:HG3	1:G:1317:CYS:HB2	1.57	0.84
1:C:114:GLN:NE2	1:M:43:ARG:CD	2.38	0.84
1:D:1236:ARG:HH22	1:D:1242:ALA:CA	1.89	0.84
1:H:216:ARG:NH2	1:H:1287:ARG:O	2.08	0.84

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:419:HIS:CD2	1:I:421:GLY:O	2.29	0.84
1:J:756:ILE:HD11	1:J:906:THR:HG21	1.57	0.84
1:K:950:GLN:C	1:K:953:GLU:OE2	2.19	0.84
1:K:1277:PHE:O	1:K:1278:THR:HG22	1.77	0.84
1:L:1265:GLY:O	1:L:1266:ALA:HB3	1.76	0.84
1:M:462:CYS:HB3	1:M:1037:TYR:CZ	2.12	0.84
1:N:255:THR:HG21	1:N:1109:VAL:HG13	1.57	0.84
1:O:1226:MET:O	1:O:1227:TYR:HB2	1.77	0.84
1:P:193:PRO:HG3	1:P:198:LEU:HD12	1.58	0.84
3:S:331:LYS:NZ	3:S:434:ARG:HD2	1.92	0.84
2:T:108:LEU:HD11	2:T:182:ASN:HD21	1.02	0.84
3:V:39:PRO:CD	3:V:41:ILE:O	2.24	0.84
3:V:141:PRO:HB2	3:V:144:ALA:HB2	1.57	0.84
3:Y:198:TYR:CZ	3:Y:294:VAL:HG11	2.08	0.84
1:A:1229:HIS:HD2	1:A:1241:THR:CG2	1.74	0.84
1:F:532:MET:HG3	1:F:534:PRO:HD2	1.58	0.84
1:J:261:VAL:H	1:J:1068:ARG:HH22	1.25	0.84
1:J:279:VAL:HB	1:J:394:LEU:HD11	1.58	0.84
1:J:470:ASP:HB3	1:J:922:SER:HB3	1.59	0.84
1:K:419:HIS:CD2	1:L:421:GLY:O	2.30	0.84
1:M:534:PRO:HA	1:N:1154:GLY:HA3	1.59	0.84
1:N:817:VAL:O	1:N:821:SER:OG	1.93	0.84
1:P:148:LEU:HD21	1:P:154:SER:C	2.02	0.84
3:S:317:ARG:CB	3:S:324:LEU:H	1.89	0.84
1:F:367:LEU:HD13	1:F:374:LEU:HD21	1.58	0.84
1:J:752:ARG:HG3	1:J:927:ARG:NE	1.92	0.84
1:K:744:ARG:CZ	1:K:803:ALA:HB2	2.07	0.84
1:N:534:PRO:HD2	1:N:1230:GLY:O	1.78	0.84
1:O:873:ASN:OD1	4:t:92:PHE:CB	2.25	0.84
3:S:433:PRO:CB	3:S:453:GLU:CB	2.56	0.84
3:Y:437:HIS:C	3:Y:449:VAL:H	1.85	0.84
2:a:298:CYS:O	2:a:313:PRO:HB2	1.77	0.84
4:i:22:MET:O	4:i:25:LEU:HB2	1.75	0.84
4:o:1:MET:H3	4:o:5:GLN:HB2	1.41	0.84
4:q:77:PRO:O	4:q:78:MET:CB	2.26	0.84
1:G:295:VAL:HB	1:G:367:LEU:O	1.78	0.84
1:A:1222:VAL:O	1:A:1223:ILE:HB	1.76	0.84
1:A:1276:PHE:CE1	1:A:1329:GLN:CD	2.54	0.84
1:C:485:ASN:ND2	1:C:516:GLY:HA3	1.93	0.84
1:C:1225:LEU:HD21	1:C:1234:PRO:HG2	1.56	0.84
1:D:446:ASP:OD2	1:D:1179:HIS:ND1	2.11	0.84

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1201:ARG:NH1	1:E:448:GLN:NE2	2.25	0.84
1:H:494:PRO:HB2	1:H:757:ASP:CB	2.07	0.84
1:J:635:HIS:CD2	1:J:787:THR:CG2	2.51	0.84
1:J:847:ILE:HG21	4:o:71:ASN:HA	1.57	0.84
1:K:404:LEU:HB3	1:K:440:LEU:HD21	1.59	0.84
1:L:740:ASP:OD1	1:L:785:HIS:HE1	1.61	0.84
1:L:847:ILE:HG23	4:q:71:ASN:HA	1.60	0.84
1:M:944:HIS:CE1	1:M:972:ASN:ND2	2.46	0.84
1:M:1225:LEU:HD23	1:N:1176:GLY:CA	2.05	0.84
1:N:534:PRO:CD	1:N:1230:GLY:CA	2.53	0.84
1:O:759:GLY:HA2	1:O:781:GLY:H	1.39	0.84
4:i:99:SER:O	4:i:100:PRO:CB	2.24	0.84
4:n:9:PRO:CB	4:n:17:VAL:CB	2.54	0.84
4:o:21:GLY:O	4:o:22:MET:C	2.18	0.84
4:s:1:MET:H3	4:s:5:GLN:HB2	1.42	0.84
1:G:298:THR:HG21	1:G:362:ARG:HD3	1.59	0.84
1:D:1082:ARG:NH2	1:D:1084:GLU:OE2	2.10	0.84
2:R:128:VAL:CG1	2:R:137:LEU:HB2	2.07	0.84
3:V:288:ILE:N	3:V:289:PRO:CD	2.40	0.84
2:X:38:ARG:HE	3:Y:305:PRO:C	1.85	0.84
3:Y:433:PRO:CB	3:Y:453:GLU:CB	2.56	0.84
2:a:161:ARG:NE	2:a:173:LEU:HD22	1.87	0.84
1:G:425:PRO:CA	1:G:429:HIS:HE1	1.89	0.84
1:B:889:PRO:HD3	4:h:69:ALA:CB	2.08	0.84
1:D:842:MET:HG2	4:j:61:LEU:HD21	1.58	0.84
1:E:419:HIS:HD2	1:F:421:GLY:O	1.59	0.84
1:H:758:ALA:HB3	1:H:781:GLY:CA	2.06	0.84
1:J:185:LEU:HA	1:J:188:LEU:HB2	1.57	0.84
1:J:402:PHE:CE1	1:J:1334:ILE:HG23	2.12	0.84
1:J:669:SER:O	1:J:673:TYR:CE2	2.31	0.84
1:K:124:ILE:CD1	1:L:58:LEU:HD21	2.06	0.84
1:K:501:MET:HE2	1:K:958:LEU:CD1	2.07	0.84
1:L:846:GLU:OE2	4:q:67:THR:OG1	1.96	0.84
1:N:1342:LEU:O	1:N:1345:SER:OG	1.95	0.84
2:R:298:CYS:O	2:R:313:PRO:HB2	1.77	0.84
3:V:289:PRO:HA	3:V:450:VAL:O	1.74	0.84
2:X:17:SER:HB2	2:X:19:PRO:HD2	1.59	0.84
3:Y:317:ARG:CB	3:Y:324:LEU:H	1.89	0.84
2:c:296:ARG:HG3	2:c:318:PRO:CA	2.06	0.84
4:i:15:ASP:CB	4:i:28:ALA:CB	2.56	0.84
4:i:77:PRO:O	4:i:78:MET:CB	2.26	0.84

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:p:15:ASP:CB	4:p:28:ALA:CB	2.56	0.84
1:G:228:CYS:O	1:G:236:LYS:NZ	2.10	0.84
1:G:502:GLN:OE1	1:G:957:VAL:O	1.94	0.84
1:G:751:HIS:CE1	1:G:754:CYS:CB	2.59	0.84
1:G:1286:HIS:CD2	1:G:1292:LEU:HD23	2.12	0.84
1:A:889:PRO:CD	4:g:69:ALA:CB	2.56	0.84
1:B:837:ALA:HB1	4:i:94:LEU:O	1.77	0.84
1:C:294:LYS:O	1:C:296:GLU:HG2	1.76	0.84
1:F:404:LEU:HB3	1:F:440:LEU:HD21	1.58	0.84
1:I:646:ARG:NH2	4:n:78:MET:CB	2.40	0.84
1:J:304:VAL:HG23	1:J:358:PRO:HG2	1.57	0.84
1:J:401:THR:OG1	1:J:1054:ARG:O	1.96	0.84
1:K:801:ARG:NH1	1:K:805:TRP:CE2	2.45	0.84
1:L:530:GLN:CG	1:L:536:ASN:HD21	1.89	0.84
1:L:665:VAL:O	1:L:812:TYR:OH	1.96	0.84
1:L:1119:VAL:O	1:L:1119:VAL:CG1	2.25	0.84
1:N:189:LEU:CD1	1:N:1064:LEU:CD2	2.55	0.84
1:P:863:HIS:O	1:P:869:ASN:ND2	2.10	0.84
3:V:433:PRO:CB	3:V:453:GLU:CB	2.56	0.84
2:W:296:ARG:HG3	2:W:318:PRO:CA	2.06	0.84
2:a:157:ALA:O	2:a:160:ILE:CG1	2.25	0.84
3:e:288:ILE:N	3:e:289:PRO:CD	2.40	0.84
3:e:433:PRO:CB	3:e:453:GLU:CB	2.56	0.84
3:e:437:HIS:CB	3:e:449:VAL:HG12	2.07	0.84
4:f:1:MET:H3	4:f:5:GLN:HB2	1.43	0.84
4:m:15:ASP:CB	4:m:28:ALA:CB	2.56	0.84
1:A:65:LEU:HD11	1:F:102:PRO:HB3	1.60	0.84
1:A:77:VAL:HG21	1:A:376:PHE:HD2	1.43	0.84
1:A:321:VAL:HG12	1:A:322:MET:N	1.91	0.84
1:D:1081:ALA:HB3	1:D:1092:THR:HG22	1.60	0.84
1:D:1278:THR:O	1:D:1282:ILE:CD1	2.26	0.84
1:J:156:HIS:NE2	1:L:17:MET:SD	2.49	0.84
1:J:437:PRO:HD3	1:J:1359:THR:HB	1.58	0.84
1:K:847:ILE:CG2	4:p:71:ASN:HA	2.07	0.84
1:L:1077:GLN:NE2	3:Y:85:GLN:HE21	1.75	0.84
1:M:766:ALA:HB3	1:M:784:LEU:HD23	1.60	0.84
1:N:312:ASN:HA	1:N:316:LEU:HG	1.59	0.84
1:P:840:GLN:CD	4:t:58:ALA:HB2	2.02	0.84
2:R:161:ARG:CZ	2:R:174:PRO:HG2	2.08	0.84
3:Y:300:LEU:HD11	3:Y:332:SER:C	2.01	0.84
3:e:279:PRO:HA	3:e:285:ALA:O	1.77	0.84

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:756:ILE:CD1	1:A:906:THR:HG21	2.04	0.84
1:A:837:ALA:HB1	4:h:94:LEU:O	1.78	0.84
1:B:241:ARG:C	1:B:242:GLU:HG2	2.03	0.84
1:C:750:ARG:O	1:C:752:ARG:HD3	1.78	0.84
1:J:512:ARG:NH2	1:J:563:VAL:CG1	2.41	0.84
1:J:1083:HIS:HB3	1:J:1090:ASN:HB3	1.60	0.84
2:W:33:PHE:CB	2:W:70:ARG:HD2	2.07	0.84
3:b:121:GLN:OE1	3:b:215:TYR:HA	1.77	0.84
3:b:251:LEU:CD2	3:b:254:TRP:CE3	2.61	0.84
4:j:22:MET:HE3	4:j:60:ALA:CB	1.98	0.84
4:n:15:ASP:CB	4:n:28:ALA:CB	2.56	0.84
1:G:121:THR:OG1	1:B:49:LEU:HD23	1.77	0.84
1:G:522:ALA:CA	1:G:524:CYS:SG	2.63	0.84
1:A:55:ASP:O	1:F:324:LYS:HB2	1.77	0.84
1:B:842:MET:HG2	4:h:61:LEU:HD21	1.59	0.84
1:E:889:PRO:CD	4:k:69:ALA:CB	2.55	0.84
1:F:295:VAL:O	1:F:368:VAL:HG12	1.78	0.84
1:H:192:ALA:HB2	1:H:1108:ALA:O	1.78	0.84
1:J:1204:ASN:ND2	1:J:1208:ARG:O	2.10	0.84
1:J:1256:LEU:HD22	1:J:1263:LEU:HD21	1.57	0.84
1:K:842:MET:CG	4:p:61:LEU:HD21	2.07	0.84
1:O:468:ASN:ND2	1:O:1136:PRO:HD2	1.93	0.84
1:O:758:ALA:CB	1:O:906:THR:HG23	2.08	0.84
3:Y:81:ASP:O	3:Y:85:GLN:HG2	1.78	0.84
3:b:352:ILE:CB	3:b:416:THR:C	2.51	0.84
3:e:106:PRO:O	3:e:107:ARG:HG2	1.76	0.84
3:e:134:LEU:HD13	3:e:245:MET:HG3	1.60	0.84
3:e:316:TYR:CE2	3:e:419:TYR:O	2.31	0.84
4:f:77:PRO:O	4:f:78:MET:CB	2.26	0.84
4:t:9:PRO:C	4:t:17:VAL:CB	2.51	0.84
1:G:822:ARG:NH2	1:G:1020:LEU:CD2	2.41	0.83
1:I:301:ASP:OD2	1:I:376:PHE:CZ	2.31	0.83
1:I:1225:LEU:HD21	1:I:1234:PRO:HG2	0.84	0.83
1:J:278:LEU:HB2	1:J:375:VAL:CG1	2.06	0.83
1:K:245:GLU:OE2	1:K:292:PHE:O	1.96	0.83
1:P:1218:LYS:CG	1:P:1221:ASP:CG	2.51	0.83
2:d:12:ILE:HG22	2:d:16:ILE:CD1	2.07	0.83
3:e:108:TYR:CZ	3:e:110:LEU:HG	2.13	0.83
4:l:77:PRO:O	4:l:78:MET:CB	2.26	0.83
1:G:75:LEU:HD11	1:G:184:MET:CG	2.07	0.83
1:B:25:SER:CB	1:B:64:THR:CG2	2.55	0.83

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:65:LEU:HD12	1:B:65:LEU:O	1.78	0.83
1:D:248:LEU:HD21	1:D:293:LEU:HD21	1.60	0.83
1:D:272:ARG:HH12	1:D:374:LEU:HB2	1.42	0.83
1:D:956:TYR:OH	1:D:958:LEU:HD12	1.76	0.83
1:F:450:LEU:HD22	1:F:1124:ASN:HD22	1.38	0.83
1:F:533:GLN:N	1:F:534:PRO:HD3	1.90	0.83
1:I:482:GLU:HA	1:I:568:PRO:C	2.02	0.83
1:L:290:GLN:O	1:L:294:LYS:CG	2.25	0.83
1:N:738:ASP:CB	1:N:787:THR:HG21	2.09	0.83
1:N:1057:ARG:HH12	1:N:1321:VAL:HG21	1.43	0.83
1:P:267:ALA:HB1	1:P:274:VAL:O	1.76	0.83
1:P:439:GLN:CG	1:P:451:ARG:HH21	1.85	0.83
1:P:1218:LYS:CD	1:P:1221:ASP:OD2	2.26	0.83
2:R:163:LEU:HD12	2:R:163:LEU:O	1.79	0.83
3:S:128:GLY:CA	3:S:287:THR:O	2.18	0.83
3:V:108:TYR:CZ	3:V:110:LEU:HG	2.13	0.83
3:V:331:LYS:NZ	3:V:434:ARG:HD2	1.92	0.83
2:d:66:ALA:O	2:d:69:ARG:O	1.94	0.83
1:G:425:PRO:C	1:G:429:HIS:HE1	1.85	0.83
1:G:1300:VAL:N	1:G:1323:ASP:CG	2.34	0.83
1:A:269:THR:CG2	1:A:300:ALA:N	2.41	0.83
1:D:1329:GLN:O	1:D:1330:GLU:OE1	1.96	0.83
1:F:889:PRO:CD	4:l:69:ALA:HB1	2.08	0.83
1:H:301:ASP:CB	1:H:303:PRO:CD	2.57	0.83
1:J:228:CYS:O	1:J:236:LYS:NZ	2.11	0.83
1:J:299:GLU:O	1:J:365:ALA:N	2.10	0.83
1:M:842:MET:CG	4:f:61:LEU:HD21	2.08	0.83
3:S:251:LEU:CD2	3:S:254:TRP:CE3	2.61	0.83
2:T:180:TYR:CE2	2:T:185:ARG:CB	2.62	0.83
3:b:313:VAL:CG2	3:b:330:VAL:CG1	2.55	0.83
4:f:16:ASN:CB	4:f:20:LEU:HD13	2.07	0.83
4:h:25:LEU:O	4:h:29:THR:OG1	1.96	0.83
4:i:16:ASN:CB	4:i:20:LEU:HD22	2.06	0.83
4:o:77:PRO:O	4:o:78:MET:CB	2.26	0.83
1:G:77:VAL:CG2	1:G:277:VAL:HG21	2.06	0.83
1:B:834:ARG:HG2	4:i:94:LEU:CB	2.07	0.83
1:D:1165:VAL:HG11	2:X:200:THR:CG2	2.08	0.83
1:K:1073:TYR:HH	1:K:1097:ARG:NH1	1.76	0.83
1:L:403:VAL:HG23	1:L:1331:ALA:CB	2.07	0.83
1:N:534:PRO:HD2	1:N:1230:GLY:C	2.02	0.83
1:P:429:HIS:HB3	1:P:430:PRO:CD	2.09	0.83

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R:145:THR:HG22	2:R:293:PRO:HG3	1.61	0.83
3:V:275:HIS:HD2	3:V:280:GLY:HA2	1.41	0.83
2:W:92:LEU:HD11	2:W:95:ALA:HB3	1.56	0.83
2:d:12:ILE:CG2	2:d:16:ILE:CD1	2.56	0.83
4:k:90:PRO:CB	4:k:103:VAL:CB	2.56	0.83
1:G:367:LEU:CB	1:G:374:LEU:HD11	2.08	0.83
1:G:751:HIS:HE1	1:G:754:CYS:HB2	1.38	0.83
1:D:1174:ARG:HH11	1:D:1174:ARG:HB3	1.42	0.83
1:H:281:THR:O	1:H:283:ALA:N	2.12	0.83
1:J:400:LEU:HG	1:J:1368:PRO:HG2	1.58	0.83
1:M:429:HIS:CB	1:M:430:PRO:HD2	2.04	0.83
1:M:1241:THR:HG21	1:M:1247:SER:OG	1.78	0.83
2:d:161:ARG:HH12	2:d:174:PRO:HG2	1.38	0.83
4:g:7:HIS:CE1	4:g:44:HIS:HE1	1.94	0.83
1:G:438:ARG:HB2	1:G:454:MET:HE3	1.61	0.83
1:A:112:VAL:CG1	1:B:132:ALA:N	2.40	0.83
1:C:120:MET:SD	1:M:36:PHE:CE2	2.71	0.83
1:F:241:ARG:CZ	1:F:245:GLU:OE2	2.27	0.83
1:F:790:ARG:HH11	4:l:104:ARG:HA	1.44	0.83
1:I:302:VAL:HG22	1:I:362:ARG:CD	2.08	0.83
1:J:842:MET:CE	4:o:61:LEU:CD1	2.57	0.83
1:J:1115:VAL:HB	1:J:1374:LEU:HD21	1.61	0.83
1:L:847:ILE:HG21	4:q:70:ASN:O	1.78	0.83
1:M:356:SER:O	1:M:357:ALA:HB3	1.76	0.83
3:Y:288:ILE:N	3:Y:289:PRO:CD	2.40	0.83
3:b:279:PRO:HA	3:b:285:ALA:CA	2.09	0.83
4:i:9:PRO:CB	4:i:17:VAL:CB	2.55	0.83
4:m:92:PHE:HA	4:m:102:VAL:CB	2.08	0.83
4:o:15:ASP:CB	4:o:28:ALA:CB	2.56	0.83
4:o:25:LEU:O	4:o:29:THR:OG1	1.96	0.83
4:t:15:ASP:CB	4:t:28:ALA:CB	2.56	0.83
1:C:467:MET:CE	1:C:1032:SER:HA	2.08	0.83
1:D:122:LYS:HD2	1:I:36:PHE:CE1	2.14	0.83
1:D:1221:ASP:O	1:D:1225:LEU:N	2.12	0.83
1:E:842:MET:CE	4:k:61:LEU:HD11	2.00	0.83
1:F:241:ARG:HH11	1:F:241:ARG:HG2	1.44	0.83
1:J:920:THR:O	1:J:1139:LEU:HD11	1.77	0.83
1:K:1225:LEU:CD1	1:L:1176:GLY:HA3	2.08	0.83
1:N:1078:LEU:HD12	3:V:82:ASP:C	2.03	0.83
1:P:70:PHE:O	1:P:70:PHE:CG	2.30	0.83
3:S:288:ILE:N	3:S:289:PRO:CD	2.40	0.83

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:X:38:ARG:NH2	3:Y:305:PRO:HG2	1.92	0.83
2:Z:100:LEU:HG	2:Z:314:VAL:HG21	1.60	0.83
4:f:16:ASN:CB	4:f:20:LEU:CD1	2.57	0.83
4:m:25:LEU:O	4:m:29:THR:OG1	1.96	0.83
4:n:1:MET:H3	4:n:5:GLN:HB2	1.43	0.83
4:r:15:ASP:CB	4:r:28:ALA:CB	2.56	0.83
1:G:1202:PRO:O	1:G:1331:ALA:O	1.97	0.83
1:A:269:THR:HG23	1:A:300:ALA:N	1.92	0.83
1:A:1157:LEU:HD21	1:A:1309:VAL:HG11	1.57	0.83
1:C:124:ILE:HD13	1:D:58:LEU:HD12	1.57	0.83
1:F:1197:ASN:HD22	1:F:1200:ARG:HH21	1.24	0.83
1:I:847:ILE:HG21	4:n:70:ASN:O	1.79	0.83
1:J:438:ARG:NH2	1:J:438:ARG:HB2	1.93	0.83
1:K:263:ARG:NH1	1:K:307:GLY:HA3	1.94	0.83
1:K:387:ALA:HB3	1:P:102:PRO:HD2	1.60	0.83
1:K:833:ASP:O	4:p:54:LEU:HD11	1.78	0.83
1:N:764:VAL:C	1:N:765:TYR:CD1	2.57	0.83
2:a:32:VAL:HG13	2:a:46:VAL:CG1	2.09	0.83
3:e:279:PRO:HG2	3:e:281:ARG:O	1.79	0.83
4:j:15:ASP:CB	4:j:28:ALA:CB	2.56	0.83
4:l:15:ASP:CB	4:l:28:ALA:CB	2.56	0.83
4:n:25:LEU:O	4:n:29:THR:OG1	1.96	0.83
1:D:521:VAL:HG21	1:E:710:PRO:HG3	1.61	0.83
1:F:84:PHE:HD2	1:F:87:LEU:CD2	1.91	0.83
1:F:1029:PHE:HB3	1:F:1039:GLN:HE22	1.44	0.83
1:I:301:ASP:OD2	1:I:376:PHE:HZ	1.61	0.83
1:I:842:MET:CE	4:n:61:LEU:CD2	2.55	0.83
1:I:1080:VAL:HG22	1:I:1093:LEU:CD2	2.09	0.83
1:J:454:MET:HE1	1:J:1045:HIS:CE1	2.14	0.83
1:J:656:TRP:CD2	1:J:686:CYS:HB3	2.14	0.83
2:Q:104:SER:OG	2:Q:105:PRO:HD3	1.79	0.83
3:b:210:HIS:CD2	3:b:214:ASN:HD22	1.96	0.83
4:g:15:ASP:CB	4:g:28:ALA:CB	2.56	0.83
4:k:77:PRO:O	4:k:78:MET:CB	2.26	0.83
1:G:530:GLN:HG3	1:G:536:ASN:HD21	1.41	0.83
1:A:454:MET:HE1	1:A:1046:PRO:HD2	1.60	0.83
1:I:27:ILE:CG2	1:I:32:HIS:CE1	2.62	0.83
1:J:1206:ARG:HG3	1:J:1246:ALA:CB	2.09	0.83
1:M:145:GLY:O	1:M:148:LEU:HD13	1.78	0.83
1:N:80:VAL:HG21	1:N:261:VAL:HG11	1.60	0.83
3:S:310:LEU:O	3:S:425:LEU:N	2.12	0.83

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:W:104:SER:OG	2:W:105:PRO:HD3	1.79	0.83
3:Y:285:ALA:O	3:Y:286:VAL:HG23	1.79	0.83
3:e:292:ALA:HB1	3:e:295:ASP:H	1.44	0.83
4:f:15:ASP:CB	4:f:28:ALA:CB	2.56	0.83
4:q:10:SER:H	4:q:17:VAL:CB	1.92	0.83
4:s:77:PRO:O	4:s:78:MET:CB	2.26	0.83
1:A:90:MET:HE1	1:B:31:SER:CA	2.08	0.82
1:C:124:ILE:HD11	1:D:58:LEU:CD1	2.02	0.82
1:K:1073:TYR:OH	1:K:1097:ARG:NH1	2.11	0.82
1:L:756:ILE:O	1:L:756:ILE:HD12	1.78	0.82
1:L:867:PRO:CB	4:f:80:ALA:HB3	2.09	0.82
1:M:413:MET:HG2	1:N:1340:PRO:CD	2.09	0.82
1:P:556:VAL:HG12	1:P:557:GLU:O	1.79	0.82
3:b:271:GLN:HG3	3:b:286:VAL:CG1	2.09	0.82
4:h:15:ASP:CB	4:h:28:ALA:CB	2.56	0.82
4:k:15:ASP:CB	4:k:28:ALA:CB	2.56	0.82
1:G:1198:TYR:OH	1:G:1204:ASN:O	1.96	0.82
1:G:1299:ALA:HA	1:G:1323:ASP:CB	2.09	0.82
1:B:1082:ARG:O	1:B:1083:HIS:C	2.20	0.82
1:C:429:HIS:HB3	1:C:430:PRO:CD	2.09	0.82
1:C:532:MET:CE	1:C:534:PRO:HB2	2.06	0.82
1:D:445:LYS:HD2	1:D:1118:PRO:CB	2.07	0.82
1:E:268:ASP:O	1:E:302:VAL:HG23	1.78	0.82
1:F:272:ARG:HH22	1:F:373:ARG:C	1.86	0.82
1:I:380:LEU:CD1	1:I:385:TYR:CE2	2.62	0.82
1:J:74:GLY:O	1:J:277:VAL:HG12	1.78	0.82
1:M:1225:LEU:HD22	1:M:1234:PRO:CG	2.08	0.82
2:R:264:ASP:HB3	3:S:150:PRO:HG2	1.60	0.82
3:S:108:TYR:CZ	3:S:110:LEU:HG	2.13	0.82
3:V:310:LEU:O	3:V:425:LEU:N	2.12	0.82
2:a:280:ALA:HB1	3:b:465:CYS:HB3	1.59	0.82
3:e:136:HIS:C	3:e:138:THR:HB	2.04	0.82
4:h:1:MET:H3	4:h:5:GLN:HB2	1.44	0.82
4:i:25:LEU:O	4:i:29:THR:OG1	1.96	0.82
4:p:25:LEU:O	4:p:29:THR:OG1	1.96	0.82
4:r:77:PRO:O	4:r:78:MET:CB	2.26	0.82
4:s:25:LEU:O	4:s:29:THR:OG1	1.96	0.82
1:G:410:ASN:O	1:G:415:ARG:NE	2.12	0.82
1:A:1215:ALA:HB3	1:A:1287:ARG:NH1	1.93	0.82
1:B:752:ARG:HH21	1:B:752:ARG:HG2	1.44	0.82
1:D:77:VAL:HB	1:D:266:HIS:NE2	1.92	0.82

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1229:HIS:NE2	1:E:1241:THR:CG2	2.41	0.82
1:F:1276:PHE:CE1	1:F:1329:GLN:HA	2.15	0.82
1:H:293:LEU:CD1	1:H:370:ILE:HD11	2.10	0.82
1:I:1120:THR:HG22	1:I:1122:MET:H	1.44	0.82
1:J:892:LEU:CG	4:o:65:GLY:HA2	2.09	0.82
1:K:280:THR:HG23	1:K:1063:VAL:HG12	1.61	0.82
1:K:740:ASP:OD1	1:K:785:HIS:CE1	2.32	0.82
1:M:844:VAL:CG1	4:f:68:HIS:CB	2.56	0.82
1:P:289:LEU:HD21	1:P:296:GLU:OE2	1.77	0.82
2:Q:33:PHE:HB3	2:Q:70:ARG:HD2	1.61	0.82
3:S:275:HIS:HE1	3:S:281:ARG:N	1.55	0.82
2:a:161:ARG:HG2	2:a:173:LEU:HD23	1.60	0.82
4:g:10:SER:N	4:g:17:VAL:CB	2.41	0.82
4:l:9:PRO:HA	4:l:17:VAL:CB	2.09	0.82
4:s:15:ASP:CA	4:s:28:ALA:HB1	2.08	0.82
1:C:837:ALA:HB1	4:j:94:LEU:O	1.80	0.82
1:F:1229:HIS:CD2	1:F:1241:THR:HG23	2.14	0.82
1:J:467:MET:CA	1:J:920:THR:CB	2.57	0.82
1:J:758:ALA:HB1	1:J:779:ASN:CB	2.08	0.82
1:J:1206:ARG:HG3	1:J:1246:ALA:HB1	1.61	0.82
1:K:756:ILE:CD1	1:K:908:LEU:HD13	2.08	0.82
3:S:251:LEU:HD23	3:S:254:TRP:CZ3	2.14	0.82
3:V:278:HIS:HB3	3:V:279:PRO:HD3	0.84	0.82
3:V:292:ALA:HB1	3:V:295:ASP:H	1.44	0.82
3:e:251:LEU:CD2	3:e:254:TRP:CE3	2.61	0.82
4:g:25:LEU:O	4:g:29:THR:OG1	1.96	0.82
4:j:25:LEU:O	4:j:29:THR:OG1	1.96	0.82
4:j:77:PRO:O	4:j:78:MET:CB	2.26	0.82
4:m:77:PRO:O	4:m:78:MET:CB	2.26	0.82
4:t:77:PRO:O	4:t:78:MET:CB	2.26	0.82
1:G:830:VAL:HG22	1:G:955:PHE:CD1	2.14	0.82
1:A:206:ASP:C	1:A:207:ASN:HD22	1.88	0.82
1:B:521:VAL:HG21	1:C:710:PRO:HG2	1.60	0.82
1:I:77:VAL:HB	1:I:266:HIS:HE1	1.39	0.82
1:J:400:LEU:CD2	1:J:1368:PRO:HD2	2.06	0.82
1:J:402:PHE:HD1	1:J:1333:PRO:O	1.53	0.82
1:J:920:THR:N	1:J:923:THR:OG1	2.13	0.82
1:L:291:SER:HA	1:L:294:LYS:HE3	0.84	0.82
1:L:494:PRO:HB3	1:L:757:ASP:CB	2.08	0.82
1:P:403:VAL:HG23	1:P:1331:ALA:HB1	1.60	0.82
3:V:41:ILE:HD13	3:V:41:ILE:O	1.79	0.82

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Y:108:TYR:CZ	3:Y:110:LEU:HG	2.13	0.82
2:Z:94:HIS:NE2	3:b:459:PRO:CD	2.42	0.82
2:a:12:ILE:CG2	2:a:16:ILE:HG21	2.09	0.82
2:a:30:ARG:O	2:a:74:VAL:HA	1.79	0.82
3:e:418:THR:O	3:e:419:TYR:CB	2.25	0.82
1:G:510:ARG:CD	1:G:977:PRO:HG2	2.04	0.82
1:G:562:GLU:HG2	1:G:563:VAL:HG23	1.59	0.82
1:E:45:ASP:OD2	1:E:50:TYR:HE2	1.62	0.82
1:E:269:THR:HG21	1:E:298:THR:HG21	1.62	0.82
1:E:1058:PHE:CZ	1:E:1122:MET:CE	2.63	0.82
1:H:889:PRO:HD3	4:m:69:ALA:HB2	1.57	0.82
1:H:1132:GLY:HA2	1:H:1266:ALA:HB3	1.61	0.82
1:K:1218:LYS:HE3	1:L:1173:ARG:HH21	1.08	0.82
1:L:451:ARG:NH2	1:L:453:SER:OG	2.12	0.82
1:M:1115:VAL:HG11	1:M:1374:LEU:HD21	1.60	0.82
3:e:251:LEU:HD23	3:e:254:TRP:CZ3	2.14	0.82
4:k:1:MET:H3	4:k:5:GLN:HB2	1.42	0.82
4:m:7:HIS:CE1	4:m:44:HIS:HE1	1.94	0.82
4:p:77:PRO:O	4:p:78:MET:CB	2.26	0.82
4:q:25:LEU:O	4:q:29:THR:OG1	1.96	0.82
1:G:1202:PRO:HA	1:G:1333:PRO:HD3	1.59	0.82
1:H:532:MET:HG3	1:H:534:PRO:HG2	1.60	0.82
1:I:268:ASP:H	1:I:274:VAL:CG2	1.92	0.82
1:I:492:ALA:H	1:I:992:PRO:HB2	1.42	0.82
1:I:945:LEU:HD21	1:J:805:TRP:HZ3	1.44	0.82
1:I:953:GLU:OE2	4:o:92:PHE:O	1.96	0.82
1:J:297:ASP:O	1:J:298:THR:OG1	1.98	0.82
1:N:1300:VAL:CG2	1:N:1318:ARG:NE	2.43	0.82
1:O:553:VAL:CG2	1:O:556:VAL:HG21	2.08	0.82
1:O:581:ASN:HD21	1:O:1003:ARG:H	1.27	0.82
1:P:752:ARG:HG3	1:P:927:ARG:CD	2.10	0.82
3:S:288:ILE:CG2	3:S:457:TRP:HH2	1.92	0.82
2:X:267:ARG:NH1	3:Y:145:ARG:CA	2.39	0.82
3:e:288:ILE:CG2	3:e:457:TRP:HH2	1.92	0.82
3:e:310:LEU:O	3:e:425:LEU:N	2.12	0.82
4:q:15:ASP:CB	4:q:28:ALA:CB	2.56	0.82
1:G:323:GLY:HA3	1:G:326:VAL:HG11	1.59	0.82
1:A:321:VAL:CG1	1:A:322:MET:H	1.92	0.82
1:C:795:ALA:HB3	1:C:800:HIS:HE1	1.44	0.82
1:H:195:LEU:HD13	1:H:1109:VAL:HG21	1.60	0.82
1:H:301:ASP:O	1:H:303:PRO:HD2	1.78	0.82

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:758:ALA:C	1:J:779:ASN:O	2.22	0.82
1:N:318:THR:O	1:N:322:MET:O	1.97	0.82
1:N:534:PRO:CG	1:N:1230:GLY:O	2.27	0.82
1:N:770:ASN:H	1:N:773:THR:HB	1.44	0.82
2:R:129:ARG:HD3	2:R:136:THR:HG21	1.59	0.82
2:T:104:SER:OG	2:T:105:PRO:HD3	1.79	0.82
3:b:140:LEU:HD12	3:b:158:ALA:CB	2.10	0.82
3:b:190:LEU:O	3:b:190:LEU:HD23	1.80	0.82
4:j:7:HIS:CE1	4:j:44:HIS:HE1	1.94	0.82
4:k:25:LEU:O	4:k:29:THR:OG1	1.96	0.82
4:r:10:SER:H	4:r:17:VAL:CB	1.93	0.82
4:r:25:LEU:O	4:r:29:THR:OG1	1.96	0.82
1:G:182:ASP:OD1	1:G:385:TYR:CZ	2.33	0.82
1:G:1182:ASP:OD2	1:G:1309:VAL:CG2	2.27	0.82
1:C:445:LYS:O	1:C:446:ASP:HB2	1.79	0.82
1:J:437:PRO:HB3	1:J:1360:GLN:OE1	1.78	0.82
1:M:96:GLN:O	1:M:120:MET:O	1.96	0.82
1:O:51:ASP:CB	3:V:278:HIS:N	2.42	0.82
3:S:82:ASP:HA	3:S:85:GLN:HG2	1.61	0.82
2:T:33:PHE:HB3	2:T:70:ARG:HD2	1.61	0.82
3:b:139:ASP:OD1	3:b:141:PRO:HB3	1.80	0.82
3:b:206:ALA:CB	3:b:447:VAL:HG12	2.10	0.82
4:g:22:MET:HE1	4:g:57:GLN:O	1.80	0.82
4:p:9:PRO:C	4:p:17:VAL:CB	2.51	0.82
4:r:7:HIS:CE1	4:r:44:HIS:HE1	1.94	0.82
1:G:323:GLY:HA2	1:G:326:VAL:HG11	0.83	0.82
1:G:1236:ARG:HH22	1:G:1242:ALA:HB2	1.43	0.82
1:A:415:ARG:HH22	1:A:590:ALA:HB1	1.44	0.82
1:B:1229:HIS:HD2	1:B:1241:THR:HG23	1.40	0.82
1:C:298:THR:CG2	1:C:367:LEU:O	2.27	0.82
1:H:1196:ILE:O	1:H:1199:PHE:HB2	1.79	0.82
1:I:780:ASP:OD2	1:I:782:ARG:NE	2.12	0.82
1:K:248:LEU:HD21	1:K:293:LEU:HD23	1.60	0.82
1:O:78:ALA:HB2	1:O:277:VAL:HG21	1.61	0.82
1:O:418:ALA:HB2	1:O:1354:ARG:NH2	1.95	0.82
1:P:889:PRO:CD	4:t:69:ALA:HB1	2.08	0.82
2:Q:313:PRO:O	2:Q:314:VAL:CG2	2.28	0.82
3:S:168:SER:C	3:S:223:ARG:HG2	2.03	0.82
3:V:333:GLN:HG2	3:V:333:GLN:O	1.80	0.82
3:V:417:CYS:O	3:V:418:THR:HG23	1.80	0.82
2:X:79:LEU:HB3	2:X:80:PRO:HD2	1.62	0.82

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Y:251:LEU:HD23	3:Y:254:TRP:CZ3	2.14	0.82
2:a:157:ALA:HA	2:a:160:ILE:CG1	2.09	0.82
4:n:20:LEU:HD12	4:n:20:LEU:O	1.80	0.82
4:s:16:ASN:C	4:s:20:LEU:HD12	2.03	0.82
1:B:448:GLN:HE21	1:B:450:LEU:HD21	1.44	0.81
1:B:1347:ARG:HH21	1:B:1347:ARG:HG3	1.44	0.81
1:D:270:ARG:NH2	1:D:298:THR:HG21	1.95	0.81
1:D:538:ASN:O	1:D:539:LEU:C	2.22	0.81
1:F:84:PHE:CD2	1:F:87:LEU:HD23	2.14	0.81
1:I:1080:VAL:HG22	1:I:1093:LEU:HD23	1.62	0.81
1:J:452:LEU:CD1	1:J:1052:VAL:HG21	2.09	0.81
1:J:488:GLY:HA3	1:J:520:TRP:CH2	2.15	0.81
1:J:1256:LEU:HD23	1:J:1263:LEU:HD22	1.56	0.81
1:J:1256:LEU:CD2	1:J:1263:LEU:HD23	1.84	0.81
1:L:252:THR:CG2	1:L:373:ARG:HD2	2.09	0.81
1:M:1078:LEU:HD21	3:e:40:PRO:HG3	1.61	0.81
1:N:766:ALA:O	1:N:785:HIS:CD2	2.33	0.81
1:N:1206:ARG:HH12	1:N:1226:MET:HG3	1.45	0.81
2:X:145:THR:HG22	2:X:293:PRO:HG3	1.61	0.81
2:Z:222:THR:C	2:Z:225:PRO:HD2	2.05	0.81
3:e:316:TYR:CE2	3:e:419:TYR:HA	2.15	0.81
4:i:22:MET:HE1	4:i:57:GLN:O	1.80	0.81
4:n:77:PRO:O	4:n:78:MET:CB	2.26	0.81
4:o:22:MET:HE1	4:o:57:GLN:O	1.80	0.81
1:F:443:TRP:CZ2	1:F:1347:ARG:CG	2.63	0.81
1:H:1201:ARG:HH12	1:I:448:GLN:NE2	1.78	0.81
1:I:151:THR:HG22	1:I:153:ILE:H	1.46	0.81
1:M:1118:PRO:CG	1:M:1122:MET:HE1	2.09	0.81
1:N:189:LEU:CD1	1:N:1064:LEU:HD21	2.08	0.81
3:V:39:PRO:HG2	3:V:41:ILE:HD13	1.62	0.81
3:V:251:LEU:CD2	3:V:254:TRP:CE3	2.61	0.81
3:Y:149:PRO:O	3:Y:152:ARG:CG	2.28	0.81
4:f:25:LEU:O	4:f:29:THR:OG1	1.96	0.81
4:l:22:MET:HE1	4:l:57:GLN:O	1.80	0.81
4:t:1:MET:H3	4:t:5:GLN:HB2	1.42	0.81
1:C:141:ALA:O	1:C:147:ALA:HB3	1.79	0.81
1:C:248:LEU:HD21	1:C:293:LEU:CD2	2.01	0.81
1:D:117:HIS:C	1:D:118:ASN:HD22	1.88	0.81
1:D:216:ARG:NH2	1:D:1287:ARG:O	2.13	0.81
1:H:1085:THR:OG1	1:H:1090:ASN:ND2	2.14	0.81
1:I:543:LEU:O	1:I:1245:TRP:HD1	1.59	0.81

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:892:LEU:HD11	4:n:65:GLY:O	1.80	0.81
1:I:892:LEU:CD1	4:n:65:GLY:HA2	2.09	0.81
1:J:71:LEU:HD22	1:J:304:VAL:O	1.81	0.81
1:J:915:ASP:CB	1:J:1030:LYS:HZ3	1.92	0.81
1:K:407:GLY:HA2	1:K:437:PRO:O	1.81	0.81
1:L:1086:GLY:HA2	2:W:99:ASN:ND2	1.95	0.81
1:O:1161:GLN:HB2	1:O:1162:PRO:HD3	1.61	0.81
1:P:488:GLY:CA	1:P:520:TRP:HH2	1.91	0.81
3:S:80:ARG:O	3:S:83:THR:HG22	1.80	0.81
3:S:292:ALA:HB1	3:S:295:ASP:H	1.44	0.81
2:T:230:LEU:CB	2:U:165:PRO:CD	2.57	0.81
2:T:313:PRO:O	2:T:314:VAL:CG2	2.28	0.81
2:a:37:ILE:CG2	2:a:71:PHE:CB	2.45	0.81
3:b:76:THR:CA	3:b:80:ARG:CB	2.58	0.81
3:b:197:ALA:CB	3:b:324:LEU:HD13	2.10	0.81
3:b:251:LEU:HD23	3:b:254:TRP:CZ3	2.14	0.81
4:j:22:MET:HE1	4:j:57:GLN:O	1.80	0.81
4:m:21:GLY:O	4:m:23:ARG:O	1.96	0.81
1:G:115:PRO:O	1:B:41:ARG:HA	1.79	0.81
1:B:71:LEU:HD22	1:B:302:VAL:O	1.80	0.81
1:C:269:THR:HG22	1:C:300:ALA:O	1.79	0.81
1:E:756:ILE:HD11	1:E:906:THR:HG22	1.61	0.81
1:H:1218:LYS:HE2	1:I:1173:ARG:HH12	1.31	0.81
1:J:502:GLN:OE1	1:J:959:PRO:HD3	1.81	0.81
1:J:729:PRO:O	1:J:745:HIS:NE2	2.13	0.81
1:O:840:GLN:CD	4:s:58:ALA:CB	2.53	0.81
3:V:288:ILE:CG2	3:V:457:TRP:HH2	1.92	0.81
2:W:33:PHE:HB3	2:W:70:ARG:HD2	1.61	0.81
2:X:128:VAL:CG1	2:X:137:LEU:O	2.29	0.81
2:X:161:ARG:CZ	2:X:173:LEU:HD23	2.10	0.81
3:Y:296:LEU:HD23	3:Y:436:LEU:HD21	1.61	0.81
3:b:242:HIS:CB	3:b:314:PHE:CE2	2.64	0.81
2:c:313:PRO:O	2:c:314:VAL:CG2	2.28	0.81
2:d:79:LEU:HB3	2:d:80:PRO:HD2	1.62	0.81
2:d:145:THR:HG22	2:d:293:PRO:HG3	1.60	0.81
4:f:22:MET:HE1	4:f:57:GLN:O	1.80	0.81
1:G:626:VAL:HG12	1:G:878:MET:HG3	1.62	0.81
1:C:96:GLN:HE22	1:M:15:ALA:HB3	1.44	0.81
1:D:120:MET:SD	1:I:36:PHE:CG	2.73	0.81
1:D:591:PHE:HZ	1:D:1045:HIS:HD2	1.26	0.81
1:J:454:MET:HE1	1:J:1045:HIS:HE1	1.44	0.81

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:533:GLN:CB	1:J:534:PRO:CD	2.58	0.81
1:J:759:GLY:CA	1:J:780:ASP:C	2.53	0.81
1:J:809:HIS:HA	1:J:812:TYR:HB3	1.62	0.81
1:K:530:GLN:CG	1:K:536:ASN:HD21	1.93	0.81
1:L:183:GLN:HG2	1:L:1073:TYR:OH	1.79	0.81
1:M:404:LEU:HB3	1:M:440:LEU:HD21	1.61	0.81
1:N:473:VAL:O	1:N:477:ASN:ND2	2.13	0.81
1:P:266:HIS:ND1	1:P:266:HIS:O	2.13	0.81
1:P:860:ASP:OD1	1:P:861:PRO:HD2	1.81	0.81
2:U:79:LEU:HB3	2:U:80:PRO:HD2	1.62	0.81
4:i:1:MET:H3	4:i:5:GLN:HB2	1.45	0.81
4:l:25:LEU:O	4:l:29:THR:OG1	1.96	0.81
4:t:22:MET:HE1	4:t:57:GLN:O	1.80	0.81
4:t:25:LEU:O	4:t:29:THR:OG1	1.96	0.81
1:G:832:PHE:HE2	1:G:902:ALA:HB3	1.42	0.81
1:E:45:ASP:OD2	1:E:50:TYR:CE2	2.33	0.81
1:E:73:LEU:HD11	1:E:380:LEU:HD21	1.61	0.81
1:H:1059:VAL:O	1:H:1115:VAL:O	1.99	0.81
1:J:463:HIS:ND1	1:J:465:SER:HB3	1.95	0.81
1:J:512:ARG:CZ	1:J:563:VAL:HG11	2.11	0.81
1:J:1017:GLU:O	1:J:1021:THR:OG1	1.99	0.81
1:K:1229:HIS:NE2	1:K:1241:THR:CG2	2.43	0.81
1:M:268:ASP:O	1:M:301:ASP:HB2	1.80	0.81
2:U:13:PRO:O	2:U:133:LEU:HD11	1.81	0.81
3:Y:279:PRO:HB3	3:Y:285:ALA:N	1.94	0.81
3:Y:292:ALA:HB1	3:Y:295:ASP:H	1.44	0.81
2:Z:218:THR:HA	2:Z:221:LEU:HD21	1.60	0.81
2:c:33:PHE:HB3	2:c:70:ARG:HD2	1.62	0.81
3:e:33:LEU:O	3:e:36:VAL:CG2	2.27	0.81
4:h:9:PRO:CA	4:h:17:VAL:CB	2.58	0.81
4:o:103:VAL:O	4:o:104:ARG:C	2.22	0.81
4:r:22:MET:HE1	4:r:57:GLN:O	1.80	0.81
4:s:10:SER:CA	4:s:17:VAL:CB	2.58	0.81
4:t:7:HIS:CE1	4:t:44:HIS:HE1	1.94	0.81
1:D:24:LEU:HD11	1:L:260:ALA:HB2	1.60	0.81
1:I:114:GLN:HG2	1:L:44:SER:HB2	1.60	0.81
1:I:1350:GLU:OE1	1:I:1364:TYR:CD2	2.33	0.81
1:J:401:THR:OG1	1:J:1055:GLN:HA	1.81	0.81
1:J:465:SER:HG	1:J:1252:TYR:HE1	0.84	0.81
1:L:445:LYS:HD3	1:L:1118:PRO:HB2	1.61	0.81
1:L:638:GLU:OE2	1:L:677:TYR:OH	1.98	0.81

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:1086:GLY:HA2	2:W:99:ASN:HD21	1.45	0.81
1:N:758:ALA:HB1	1:N:904:ARG:HH21	1.45	0.81
1:N:847:ILE:HG21	4:r:70:ASN:O	1.79	0.81
1:O:494:PRO:HB2	1:O:757:ASP:CB	2.10	0.81
1:P:1296:THR:O	1:P:1322:GLU:CG	2.29	0.81
2:T:295:VAL:HG13	2:T:315:ILE:O	1.81	0.81
2:d:129:ARG:HH11	2:d:136:THR:HG23	1.42	0.81
4:g:77:PRO:O	4:g:78:MET:CB	2.26	0.81
1:G:832:PHE:CE2	1:G:902:ALA:HB3	2.15	0.81
1:A:109:PRO:C	1:A:110:HIS:O	2.20	0.81
1:A:753:ASP:OD1	1:A:911:SER:OG	1.98	0.81
1:A:1321:VAL:HG13	1:A:1322:GLU:N	1.91	0.81
1:B:534:PRO:HG3	1:C:1154:GLY:C	2.06	0.81
1:B:956:TYR:HE1	1:B:958:LEU:CD2	1.94	0.81
1:F:423:LEU:HD13	1:F:433:ARG:HH22	1.44	0.81
1:H:192:ALA:CB	1:H:1108:ALA:O	2.29	0.81
1:H:1201:ARG:NH1	1:I:448:GLN:HE22	1.78	0.81
1:J:267:ALA:N	1:J:302:VAL:O	2.10	0.81
1:J:673:TYR:OH	1:J:801:ARG:NH2	2.14	0.81
1:K:1274:PHE:O	1:K:1278:THR:HG22	1.79	0.81
1:L:837:ALA:CB	4:q:54:LEU:HD21	2.11	0.81
1:M:621:ARG:NH1	1:N:676:THR:HG23	1.94	0.81
1:P:788:GLN:N	1:P:788:GLN:OE1	2.13	0.81
3:S:139:ASP:OD1	3:S:140:LEU:N	2.14	0.81
4:p:22:MET:HE1	4:p:57:GLN:O	1.80	0.81
1:G:210:LEU:CD2	1:G:212:THR:CG2	2.47	0.81
1:G:330:ASP:OD1	1:A:263:ARG:HD2	1.80	0.81
1:A:94:ARG:NH1	1:A:123:VAL:CG2	2.43	0.81
1:B:509:TRP:O	1:B:513:LEU:CB	2.28	0.81
1:C:296:GLU:OE2	1:C:298:THR:OG1	1.98	0.81
1:J:45:ASP:OD2	1:J:50:TYR:OH	1.99	0.81
1:J:531:PHE:CE2	1:J:1242:ALA:O	2.33	0.81
1:J:778:ARG:NH1	1:J:782:ARG:HD2	1.95	0.81
1:J:1336:CYS:N	1:J:1363:ILE:O	2.13	0.81
1:L:290:GLN:O	1:L:294:LYS:CE	2.28	0.81
1:M:759:GLY:HA3	1:M:781:GLY:HA2	1.62	0.81
1:M:1241:THR:CG2	1:M:1247:SER:OG	2.28	0.81
1:N:842:MET:CE	4:r:61:LEU:HD13	2.07	0.81
1:O:621:ARG:NH2	1:P:698:GLU:OE2	2.13	0.81
3:S:300:LEU:HD23	3:S:332:SER:HA	1.60	0.81
3:V:161:TRP:CH2	3:V:165:LEU:CD1	2.61	0.81

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Z:295:VAL:HG13	2:Z:315:ILE:C	2.05	0.81
3:b:107:ARG:O	3:b:270:PRO:HD2	1.81	0.81
3:b:279:PRO:HB2	3:b:283:CYS:H	1.42	0.81
3:b:299:GLU:OE1	3:b:330:VAL:HG23	1.80	0.81
3:e:38:ARG:HB3	3:e:43:ARG:HH12	1.46	0.81
4:j:10:SER:N	4:j:17:VAL:CB	2.44	0.81
4:k:22:MET:HE1	4:k:57:GLN:O	1.80	0.81
1:G:82:THR:O	1:G:1074:PHE:HA	1.81	0.81
1:D:399:ASP:CG	1:D:1321:VAL:HG21	2.06	0.81
1:F:1276:PHE:HE1	1:F:1329:GLN:CA	1.94	0.81
1:I:1245:TRP:O	1:I:1252:TYR:O	1.99	0.81
1:J:578:VAL:HG11	1:J:725:LEU:HB2	1.61	0.81
3:V:251:LEU:HD23	3:V:254:TRP:CZ3	2.14	0.81
3:Y:436:LEU:CA	3:Y:450:VAL:HG22	2.08	0.81
3:e:350:LEU:CB	3:e:351:ARG:HH11	1.93	0.81
4:m:9:PRO:HB3	4:m:18:ARG:N	1.96	0.81
4:m:22:MET:HE1	4:m:57:GLN:O	1.80	0.81
1:H:443:TRP:CZ2	1:H:1347:ARG:CD	2.64	0.80
1:I:915:ASP:OD1	1:I:918:ALA:HB3	1.82	0.80
1:J:227:PHE:O	1:J:231:SER:HB3	1.80	0.80
1:K:440:LEU:O	1:K:451:ARG:HG3	1.81	0.80
1:M:740:ASP:OD1	1:M:785:HIS:HE1	1.64	0.80
1:N:665:VAL:O	1:N:812:TYR:OH	1.99	0.80
1:N:742:LEU:HD22	1:N:765:TYR:HH	1.42	0.80
1:N:756:ILE:HD13	1:N:783:LEU:HD11	1.62	0.80
1:O:842:MET:CG	4:s:61:LEU:HD21	2.11	0.80
2:R:13:PRO:HG3	2:R:43:LEU:HB3	1.62	0.80
3:V:39:PRO:HB2	3:V:41:ILE:HD12	1.59	0.80
3:Y:141:PRO:HG3	3:Y:157:LEU:HB2	1.60	0.80
3:b:334:LEU:O	3:b:334:LEU:HD23	1.81	0.80
3:e:39:PRO:HB3	3:e:42:ALA:HA	1.63	0.80
1:G:232:PHE:CA	1:G:1113:ALA:O	2.28	0.80
1:G:295:VAL:HG23	1:G:369:ALA:N	1.86	0.80
1:G:758:ALA:HB1	1:G:904:ARG:HH21	1.41	0.80
1:A:1072:ALA:CB	1:A:1100:VAL:HG12	2.10	0.80
1:B:143:LEU:O	1:B:144:THR:OG1	1.99	0.80
1:B:155:LEU:HD12	1:B:155:LEU:O	1.79	0.80
1:B:276:GLY:HA3	1:B:375:VAL:HG13	1.64	0.80
1:B:833:ASP:O	4:h:54:LEU:HD11	1.82	0.80
1:C:267:ALA:CB	1:C:274:VAL:H	1.92	0.80
1:C:842:MET:HG2	4:i:61:LEU:HD21	1.63	0.80

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:1210:ALA:HB3	1:H:1329:GLN:NE2	1.97	0.80
1:P:844:VAL:HG12	1:P:845:PRO:O	1.81	0.80
2:a:74:VAL:CG2	2:a:100:LEU:HD13	2.11	0.80
3:b:352:ILE:CB	3:b:416:THR:O	2.30	0.80
4:h:7:HIS:CE1	4:h:44:HIS:HE1	1.94	0.80
1:G:1165:VAL:HG23	2:R:240:LEU:O	1.79	0.80
1:A:112:VAL:HG12	1:B:132:ALA:N	1.96	0.80
1:B:140:ILE:CD1	1:B:1089:VAL:HG13	2.10	0.80
1:B:842:MET:H	4:h:22:MET:HE2	1.45	0.80
1:D:297:ASP:O	1:D:298:THR:HG23	1.80	0.80
1:J:722:LEU:HD23	1:J:915:ASP:CG	2.06	0.80
1:L:563:VAL:HG12	1:L:564:PRO:CD	2.12	0.80
1:L:1277:PHE:C	1:L:1278:THR:HG1	1.87	0.80
1:M:944:HIS:O	1:M:945:LEU:HB3	1.81	0.80
1:N:1131:LEU:O	1:N:1169:ALA:CB	2.29	0.80
3:Y:141:PRO:HG2	3:Y:158:ALA:H	1.47	0.80
2:c:272:TYR:CD2	2:d:161:ARG:CG	2.63	0.80
2:c:295:VAL:HG13	2:c:315:ILE:O	1.81	0.80
4:k:9:PRO:C	4:k:17:VAL:CB	2.55	0.80
1:H:956:TYR:CE1	1:H:958:LEU:HD11	2.16	0.80
1:J:578:VAL:HA	1:J:1030:LYS:HA	1.63	0.80
1:K:666:ASN:CB	1:K:940:MET:HE1	2.02	0.80
1:L:488:GLY:H	1:L:520:TRP:HH2	0.81	0.80
1:M:621:ARG:O	1:M:943:GLN:HG3	1.81	0.80
1:N:837:ALA:HA	4:r:54:LEU:HD22	1.61	0.80
4:q:22:MET:HE1	4:q:57:GLN:O	1.80	0.80
1:G:136:ALA:O	1:G:138:GLU:N	2.13	0.80
1:G:754:CYS:HG	1:G:910:CYS:HG	0.82	0.80
1:G:832:PHE:C	1:G:836:TYR:HD2	1.90	0.80
1:B:840:GLN:NE2	4:h:58:ALA:HB2	1.95	0.80
1:B:1215:ALA:HB2	1:B:1222:VAL:HG22	1.63	0.80
1:C:982:ASP:CG	1:C:985:ARG:NH2	2.40	0.80
1:I:122:LYS:NZ	1:L:35:LEU:HD13	1.97	0.80
1:I:482:GLU:CB	1:I:569:GLY:H	1.93	0.80
1:K:534:PRO:HB3	1:L:1154:GLY:HA3	1.62	0.80
1:L:790:ARG:HH21	4:q:101:PHE:CB	1.90	0.80
1:M:349:GLU:OE1	1:N:167:ARG:NH2	2.13	0.80
1:N:67:LEU:CD2	1:N:69:ARG:NH2	2.45	0.80
1:N:919:ASN:O	1:N:923:THR:OG1	1.99	0.80
1:N:1253:GLY:O	1:N:1277:PHE:CE2	2.34	0.80
1:O:71:LEU:CD2	1:O:306:TYR:CZ	2.63	0.80

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:759:GLY:CA	1:O:779:ASN:O	2.30	0.80
2:W:313:PRO:O	2:W:314:VAL:CG2	2.28	0.80
3:Y:437:HIS:O	3:Y:449:VAL:CA	2.30	0.80
4:h:77:PRO:O	4:h:78:MET:CB	2.26	0.80
4:s:22:MET:HE1	4:s:57:GLN:O	1.80	0.80
1:A:112:VAL:HG12	1:B:132:ALA:HB2	1.64	0.80
1:B:216:ARG:NH2	1:B:1287:ARG:O	2.15	0.80
1:B:1166:PHE:CE2	3:S:141:PRO:HG3	2.16	0.80
1:C:530:GLN:O	1:C:536:ASN:ND2	2.15	0.80
1:F:837:ALA:HB3	4:g:94:LEU:O	1.81	0.80
1:I:696:HIS:HE1	1:I:1021:THR:HG21	1.45	0.80
1:I:1115:VAL:HB	1:I:1374:LEU:HD21	1.64	0.80
1:K:369:ALA:HA	1:K:373:ARG:O	1.82	0.80
1:L:1301:SER:OG	1:L:1319:GLU:HB3	1.81	0.80
1:M:675:VAL:HA	1:M:687:MET:HE1	1.61	0.80
1:P:1218:LYS:CD	1:P:1221:ASP:CG	2.55	0.80
2:U:145:THR:HG23	2:U:293:PRO:HG3	1.63	0.80
3:b:189:PHE:N	3:b:211:ILE:HD11	1.94	0.80
4:s:7:HIS:CE1	4:s:44:HIS:NE2	2.28	0.80
1:C:267:ALA:O	1:C:273:PRO:HA	1.82	0.80
1:D:94:ARG:HH12	1:I:9:PRO:CD	1.94	0.80
1:D:322:MET:HE3	1:H:324:LYS:CB	2.10	0.80
1:F:1190:THR:HG22	1:F:1243:ASN:ND2	1.97	0.80
1:H:1129:PHE:CD1	1:H:1264:ASN:ND2	2.50	0.80
1:J:279:VAL:HG23	1:J:1064:LEU:N	1.96	0.80
1:L:842:MET:SD	4:q:61:LEU:HD22	2.22	0.80
1:M:1115:VAL:HB	1:M:1374:LEU:CD2	2.12	0.80
1:M:1216:GLY:CA	1:M:1221:ASP:OD2	2.30	0.80
1:N:1057:ARG:NH1	1:N:1321:VAL:HG21	1.93	0.80
1:O:675:VAL:HA	1:O:687:MET:HE1	1.64	0.80
1:P:1095:GLN:HE21	1:P:1097:ARG:NH2	1.78	0.80
3:S:333:GLN:O	3:S:333:GLN:HG2	1.80	0.80
3:Y:251:LEU:CD2	3:Y:254:TRP:CE3	2.61	0.80
2:a:13:PRO:O	2:a:16:ILE:HG22	1.82	0.80
1:G:425:PRO:CA	1:G:429:HIS:CE1	2.64	0.80
1:A:28:GLU:O	1:A:31:SER:HB2	1.80	0.80
1:J:987:VAL:HG12	1:J:989:LEU:HD12	1.62	0.80
1:O:468:ASN:HD21	1:O:1136:PRO:HD2	1.44	0.80
2:R:129:ARG:CD	2:R:136:THR:HG23	2.12	0.80
3:Y:214:ASN:HD21	3:Y:442:PHE:C	1.90	0.80
2:d:13:PRO:O	2:d:133:LEU:HD11	1.81	0.80

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:f:7:HIS:CE1	4:f:44:HIS:HE1	1.94	0.80
4:h:9:PRO:HB2	4:h:17:VAL:CB	2.09	0.80
1:B:1166:PHE:HE2	3:S:141:PRO:HG3	1.47	0.80
1:F:193:PRO:HG3	1:F:1294:VAL:HG12	1.64	0.80
1:F:232:PHE:CZ	1:F:398:MET:CE	2.63	0.80
1:H:826:CYS:SG	1:H:957:VAL:HG13	2.21	0.80
1:H:841:ASN:CG	4:m:57:GLN:NE2	2.40	0.80
1:I:1165:VAL:HG11	2:X:240:LEU:CD1	2.10	0.80
1:I:1210:ALA:HB3	1:I:1329:GLN:NE2	1.97	0.80
1:K:840:GLN:HE22	4:p:58:ALA:HB2	0.77	0.80
2:Q:92:LEU:CD1	2:Q:95:ALA:CB	2.59	0.80
2:T:230:LEU:CB	2:U:165:PRO:HD2	2.12	0.80
2:W:295:VAL:HG13	2:W:315:ILE:O	1.81	0.80
3:Y:164:LEU:O	3:Y:164:LEU:HD12	1.80	0.80
1:G:263:ARG:CG	1:G:264:LEU:CD1	2.56	0.80
1:G:1259:GLY:HA3	1:G:1274:PHE:HE1	1.47	0.80
1:B:752:ARG:HD2	1:B:927:ARG:CZ	2.12	0.80
1:H:267:ALA:CB	1:H:273:PRO:HA	2.11	0.80
1:H:956:TYR:HE1	1:H:958:LEU:HD11	1.45	0.80
1:J:732:LEU:HB3	1:J:745:HIS:CD2	2.17	0.80
1:J:767:ALA:HA	1:J:796:ASP:OD2	1.81	0.80
1:J:809:HIS:O	1:J:813:TYR:N	2.10	0.80
1:K:759:GLY:HA2	1:K:779:ASN:C	2.06	0.80
1:K:947:HIS:C	1:K:948:THR:HG23	2.07	0.80
1:O:904:ARG:HH12	1:O:906:THR:HG23	1.46	0.80
3:S:278:HIS:CB	3:S:279:PRO:CD	2.34	0.80
2:Z:298:CYS:CB	3:b:109:HIS:NE2	2.45	0.80
3:b:149:PRO:HG2	3:b:152:ARG:HE	1.46	0.80
2:c:92:LEU:CD1	2:c:95:ALA:CB	2.59	0.80
1:A:208:GLY:HA3	1:B:389:ASN:O	1.82	0.79
1:D:81:CYS:HB3	1:D:306:TYR:CE1	2.17	0.79
1:D:1071:GLU:OE2	1:D:1099:ASN:HB2	1.82	0.79
1:H:837:ALA:HA	4:m:54:LEU:HD21	0.80	0.79
1:H:1106:TYR:OH	1:H:1293:ILE:HD11	1.82	0.79
1:I:888:GLY:HA3	4:n:69:ALA:HB2	1.64	0.79
1:L:127:ARG:NH1	1:L:183:GLN:OE1	2.15	0.79
1:L:530:GLN:HG3	1:L:536:ASN:ND2	1.96	0.79
1:M:413:MET:HG2	1:N:1340:PRO:HD3	1.62	0.79
1:P:293:LEU:HD13	1:P:368:VAL:HB	1.62	0.79
3:e:278:HIS:HB3	3:e:279:PRO:HD3	0.85	0.79
1:B:846:GLU:CD	4:h:67:THR:OG1	2.24	0.79

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:829:GLY:HA3	1:E:956:TYR:CE2	2.17	0.79
1:J:266:HIS:HA	1:J:303:PRO:HA	1.63	0.79
1:J:767:ALA:CA	1:J:796:ASP:OD2	2.30	0.79
1:M:269:THR:OG1	1:M:298:THR:HG21	1.81	0.79
1:N:201:MET:CG	1:N:205:LEU:HD11	2.10	0.79
1:N:429:HIS:HB3	1:N:430:PRO:HD2	1.64	0.79
1:O:739:CYS:C	1:O:785:HIS:CE1	2.60	0.79
1:P:248:LEU:HD23	1:P:293:LEU:HD23	1.64	0.79
3:e:302:LEU:H	3:e:302:LEU:HD23	1.47	0.79
1:D:269:THR:O	1:D:269:THR:HG23	1.81	0.79
1:I:842:MET:CE	4:n:61:LEU:HD13	1.98	0.79
1:J:1342:LEU:HB3	1:J:1354:ARG:O	1.82	0.79
1:K:1222:VAL:O	1:K:1223:ILE:CG1	2.30	0.79
1:L:290:GLN:C	1:L:294:LYS:HE2	2.07	0.79
1:M:736:VAL:O	1:M:934:HIS:O	1.99	0.79
1:M:1237:PRO:CB	1:N:1156:ARG:HH22	1.90	0.79
1:P:124:ILE:CG1	1:P:1100:VAL:CG2	2.60	0.79
3:S:112:ARG:NH1	3:S:262:SER:OG	2.15	0.79
2:X:267:ARG:NH1	3:Y:145:ARG:C	2.41	0.79
2:a:35:PRO:C	2:a:70:ARG:HB3	2.06	0.79
2:c:92:LEU:CD1	2:c:95:ALA:HB3	2.13	0.79
4:o:9:PRO:C	4:o:17:VAL:CB	2.55	0.79
1:G:137:THR:N	1:G:1087:GLY:O	2.14	0.79
1:G:521:VAL:HG22	1:G:522:ALA:H	1.48	0.79
1:G:562:GLU:HG2	1:G:563:VAL:H	1.48	0.79
1:A:372:ASP:C	1:A:373:ARG:HG2	2.07	0.79
1:D:707:PHE:HA	1:D:1042:THR:HG21	1.64	0.79
1:F:638:GLU:OE1	1:F:801:ARG:NH2	2.15	0.79
1:O:103:LEU:CD2	1:O:115:PRO:HD3	2.12	0.79
1:O:1115:VAL:CG1	1:O:1374:LEU:CD2	2.59	0.79
1:O:1160:ALA:O	1:O:1161:GLN:HG2	1.83	0.79
1:P:439:GLN:CD	1:P:451:ARG:HH21	1.83	0.79
2:T:92:LEU:CD1	2:T:95:ALA:HB3	2.13	0.79
3:Y:333:GLN:HG2	3:Y:333:GLN:O	1.80	0.79
2:Z:223:LEU:HD12	2:Z:271:LEU:HD13	0.83	0.79
1:G:44:SER:HA	1:G:48:SER:OG	1.83	0.79
1:B:237:ALA:O	1:B:244:ILE:HD11	1.82	0.79
1:B:1265:GLY:O	3:S:176:GLU:HG2	1.82	0.79
1:C:638:GLU:OE2	1:C:677:TYR:OH	1.98	0.79
1:C:665:VAL:O	1:C:812:TYR:OH	2.00	0.79
1:C:933:LEU:HD21	1:C:958:LEU:CD2	2.12	0.79

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1032:SER:OG	1:C:1035:ALA:HB3	1.83	0.79
1:E:9:PRO:CG	1:H:94:ARG:CZ	2.61	0.79
1:I:236:LYS:NZ	1:I:1370:LYS:O	2.14	0.79
1:J:847:ILE:HG21	4:o:71:ASN:CA	2.10	0.79
1:M:1229:HIS:CD2	1:M:1241:THR:HG23	2.17	0.79
1:O:759:GLY:C	1:O:781:GLY:N	2.41	0.79
1:P:1116:ARG:HG2	1:P:1116:ARG:NH2	1.97	0.79
2:Q:116:LEU:HD21	2:Q:143:LEU:HD12	1.64	0.79
2:T:116:LEU:HD21	2:T:143:LEU:HD12	1.64	0.79
2:W:92:LEU:CD1	2:W:95:ALA:CB	2.59	0.79
2:a:27:CYS:O	2:a:30:ARG:HD2	1.82	0.79
2:a:32:VAL:N	2:a:73:ALA:O	2.15	0.79
2:a:157:ALA:O	2:a:160:ILE:CB	2.30	0.79
3:e:112:ARG:NH1	3:e:262:SER:OG	2.15	0.79
4:g:7:HIS:CE1	4:g:44:HIS:NE2	2.28	0.79
4:p:7:HIS:CE1	4:p:44:HIS:NE2	2.28	0.79
1:G:77:VAL:HG23	1:G:78:ALA:N	1.98	0.79
1:B:1317:CYS:N	3:S:260:LEU:CD1	2.33	0.79
1:D:35:LEU:N	1:L:1291:ARG:HH21	1.80	0.79
1:D:580:GLY:HA2	1:D:592:ARG:HH12	1.47	0.79
1:E:829:GLY:HA3	1:E:956:TYR:CZ	2.18	0.79
1:J:441:PHE:N	1:J:1337:ALA:O	2.16	0.79
1:J:756:ILE:HD11	1:J:906:THR:HG22	1.65	0.79
1:J:1300:VAL:HG12	1:J:1318:ARG:CB	2.12	0.79
1:K:248:LEU:HD23	1:K:293:LEU:CD2	2.13	0.79
1:K:263:ARG:NH1	1:K:307:GLY:CA	2.45	0.79
1:M:77:VAL:HG12	1:M:277:VAL:CG2	2.11	0.79
1:M:216:ARG:NH2	1:M:1287:ARG:O	2.15	0.79
1:M:417:ALA:HB2	1:M:1358:PHE:CZ	2.17	0.79
1:N:425:PRO:HD3	1:N:431:GLU:OE1	1.81	0.79
2:R:13:PRO:CG	2:R:43:LEU:HD23	2.12	0.79
3:S:82:ASP:HA	3:S:85:GLN:NE2	1.97	0.79
2:a:74:VAL:HG22	2:a:100:LEU:CD1	2.13	0.79
2:a:92:LEU:HD11	2:a:295:VAL:HG22	1.64	0.79
3:b:210:HIS:HD2	3:b:214:ASN:HD22	1.28	0.79
3:e:240:PHE:CZ	3:e:418:THR:HG21	2.16	0.79
4:n:86:GLU:H	4:n:105:ASP:CB	1.95	0.79
1:G:1218:LYS:HG3	1:G:1221:ASP:CG	2.06	0.79
1:C:403:VAL:CG2	1:C:1331:ALA:HB1	2.11	0.79
1:I:892:LEU:HD11	4:n:65:GLY:C	2.08	0.79
1:I:1165:VAL:HG11	2:X:240:LEU:HD12	1.64	0.79

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:295:VAL:O	1:L:296:GLU:HB2	1.82	0.79
1:M:873:ASN:OD1	4:r:92:PHE:CB	2.30	0.79
1:N:445:LYS:O	1:N:446:ASP:HB2	1.80	0.79
1:G:300:ALA:O	1:G:301:ASP:C	2.25	0.79
1:A:1067:GLU:CG	1:A:1107:THR:CG2	2.57	0.79
1:B:49:LEU:HD13	1:B:50:TYR:N	1.98	0.79
1:C:501:MET:CE	1:C:958:LEU:HD11	2.13	0.79
1:D:34:ARG:HD2	1:L:1288:CYS:SG	2.22	0.79
1:D:35:LEU:HA	1:L:1291:ARG:HH21	1.46	0.79
1:D:1265:GLY:O	2:X:54:GLY:CA	2.27	0.79
1:E:445:LYS:O	1:E:446:ASP:HB2	1.83	0.79
1:I:380:LEU:CD1	1:I:385:TYR:HE2	1.93	0.79
1:I:638:GLU:OE2	1:I:677:TYR:OH	2.01	0.79
1:K:892:LEU:HD11	4:p:65:GLY:HA2	1.64	0.79
1:O:488:GLY:CA	1:O:520:TRP:CH2	2.64	0.79
2:Q:33:PHE:HB3	2:Q:70:ARG:CG	2.13	0.79
2:Q:160:ILE:CD1	2:Q:210:VAL:CG2	2.60	0.79
3:S:120:CYS:O	3:S:215:TYR:CD2	2.36	0.79
3:b:112:ARG:CZ	3:b:112:ARG:HB3	2.13	0.79
3:e:134:LEU:CD1	3:e:245:MET:HG3	2.13	0.79
1:G:294:LYS:CD	1:G:295:VAL:H	1.95	0.79
1:G:467:MET:HE3	1:G:1033:PRO:CG	2.13	0.79
1:G:755:ARG:HG2	1:G:909:LEU:O	1.83	0.79
1:A:680:GLY:HA3	1:F:883:ARG:HG3	1.64	0.79
1:E:17:MET:HA	1:H:349:GLU:OE2	1.81	0.79
1:J:1019:ALA:HA	1:J:1022:TYR:HD2	1.46	0.79
1:K:481:VAL:CG1	1:K:482:GLU:H	1.96	0.79
1:N:1057:ARG:HH12	1:N:1321:VAL:HG23	1.44	0.79
2:U:267:ARG:HH12	3:V:145:ARG:CB	1.95	0.79
2:W:33:PHE:HB3	2:W:70:ARG:CG	2.13	0.79
2:X:17:SER:O	2:X:20:ASP:N	2.16	0.79
2:Z:33:PHE:HB3	2:Z:70:ARG:HD2	1.62	0.79
2:Z:272:TYR:CE1	2:a:160:ILE:HG22	2.17	0.79
2:a:35:PRO:O	2:a:70:ARG:CG	2.29	0.79
4:g:21:GLY:O	4:g:22:MET:C	2.23	0.79
4:o:7:HIS:CE1	4:o:44:HIS:HE1	1.94	0.79
1:A:311:LEU:H	1:A:311:LEU:HD22	1.48	0.79
1:C:1225:LEU:O	1:C:1225:LEU:HD22	1.83	0.79
1:J:248:LEU:HD23	1:J:293:LEU:CD2	2.12	0.79
1:J:847:ILE:HG22	4:o:71:ASN:HA	1.64	0.79
1:J:1206:ARG:NH2	1:J:1247:SER:CB	2.45	0.79

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:801:ARG:NH1	1:K:805:TRP:CZ2	2.51	0.79
1:K:950:GLN:C	1:K:953:GLU:CD	2.50	0.79
1:N:837:ALA:CB	4:r:54:LEU:HD21	2.12	0.79
1:N:1354:ARG:HH22	1:N:1357:HIS:HD2	1.28	0.79
1:O:295:VAL:HG12	1:O:297:ASP:OD1	1.84	0.79
2:R:13:PRO:HD2	2:R:43:LEU:HD23	1.63	0.79
3:S:318:GLN:HB2	3:S:352:ILE:HG23	1.65	0.79
2:W:268:ARG:HB3	2:X:166:ASP:OD2	1.83	0.79
3:Y:296:LEU:CD2	3:Y:434:ARG:HH11	1.95	0.79
2:a:164:ASN:N	2:a:165:PRO:HA	1.97	0.79
2:a:267:ARG:HH12	3:b:145:ARG:CB	1.95	0.79
3:e:279:PRO:HB3	3:e:284:SER:CA	2.13	0.79
3:e:300:LEU:CD1	3:e:333:GLN:N	2.37	0.79
3:e:312:LEU:O	3:e:422:PHE:HA	1.83	0.79
4:f:16:ASN:HA	4:f:20:LEU:CD1	2.13	0.79
4:k:21:GLY:O	4:k:22:MET:C	2.24	0.79
1:G:859:THR:HG22	1:G:859:THR:O	1.84	0.78
1:A:113:GLU:O	1:B:132:ALA:CB	2.28	0.78
1:A:367:LEU:CB	1:A:374:LEU:HD11	2.12	0.78
1:A:530:GLN:HA	1:A:536:ASN:HD22	1.12	0.78
1:A:530:GLN:C	1:A:536:ASN:ND2	2.32	0.78
1:A:956:TYR:CE1	1:A:958:LEU:CD2	2.66	0.78
1:A:1225:LEU:CD2	1:A:1234:PRO:CG	2.60	0.78
1:D:461:VAL:HG21	1:D:1050:PHE:CZ	2.18	0.78
1:D:764:VAL:HG13	1:D:782:ARG:HE	1.48	0.78
1:F:1241:THR:HG21	1:F:1247:SER:OG	1.83	0.78
1:H:519:ARG:O	1:H:519:ARG:HD2	1.82	0.78
1:H:519:ARG:CG	1:H:998:TYR:OH	2.30	0.78
1:K:98:GLU:OE1	1:K:100:HIS:NE2	2.16	0.78
1:K:107:ASP:O	1:K:110:HIS:ND1	2.17	0.78
1:K:1204:ASN:OD1	1:K:1206:ARG:HG2	1.83	0.78
1:L:111:PRO:O	2:d:301:ASP:O	2.01	0.78
1:M:620:ASP:OD2	1:M:655:TYR:OH	1.99	0.78
1:O:759:GLY:CA	1:O:781:GLY:CA	2.46	0.78
1:P:1296:THR:O	1:P:1322:GLU:HG3	1.83	0.78
3:S:167:ALA:HB2	3:S:226:ARG:HG3	0.80	0.78
2:W:92:LEU:CD1	2:W:95:ALA:HB3	2.13	0.78
2:X:145:THR:HG23	2:X:293:PRO:HG3	1.62	0.78
3:Y:238:HIS:CE1	3:Y:416:THR:CG2	2.59	0.78
2:Z:92:LEU:CD1	2:Z:95:ALA:HB3	2.13	0.78
2:a:119:PRO:CG	2:a:138:ARG:HD3	2.12	0.78

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:b:130:LEU:HB2	3:b:187:PHE:HB3	1.64	0.78
3:b:276:THR:O	3:b:279:PRO:O	2.01	0.78
4:o:103:VAL:O	4:o:106:PRO:HD3	1.83	0.78
1:G:456:ASN:OD1	1:G:1126:PRO:HB3	1.83	0.78
1:G:741:GLY:O	1:G:745:HIS:HD2	1.67	0.78
1:B:252:THR:HG21	1:B:373:ARG:HD2	1.65	0.78
1:B:1166:PHE:CE2	3:S:141:PRO:CG	2.66	0.78
1:C:758:ALA:CB	1:C:904:ARG:NH2	2.46	0.78
1:C:1206:ARG:CB	1:C:1277:PHE:CE1	2.65	0.78
1:D:12:ARG:H	1:L:96:GLN:HE22	1.28	0.78
1:E:201:MET:HE1	1:E:1289:LEU:HB3	1.63	0.78
1:E:638:GLU:OE2	1:E:677:TYR:OH	2.01	0.78
1:F:1276:PHE:HD1	1:F:1329:GLN:NE2	1.80	0.78
1:I:16:ALA:O	1:I:18:VAL:N	2.15	0.78
1:I:837:ALA:HA	4:n:54:LEU:HD22	1.63	0.78
1:I:892:LEU:HD11	4:n:65:GLY:CA	2.13	0.78
1:J:301:ASP:OD2	1:J:376:PHE:CE1	2.36	0.78
1:J:895:GLN:OE1	4:o:62:THR:HG22	1.82	0.78
1:K:439:GLN:HG2	1:K:451:ARG:HH11	1.46	0.78
1:M:665:VAL:O	1:M:812:TYR:OH	2.00	0.78
1:P:833:ASP:O	4:t:54:LEU:HD11	1.82	0.78
2:Q:295:VAL:HG13	2:Q:315:ILE:O	1.81	0.78
3:V:120:CYS:O	3:V:215:TYR:CD2	2.36	0.78
3:V:140:LEU:CB	3:V:142:HIS:CE1	2.65	0.78
3:V:312:LEU:O	3:V:422:PHE:HA	1.83	0.78
3:Y:292:ALA:HB3	3:Y:295:ASP:HB2	1.66	0.78
3:e:333:GLN:HG2	3:e:333:GLN:O	1.80	0.78
1:A:29:VAL:O	1:A:30:ALA:CB	2.32	0.78
1:B:404:LEU:HB2	1:B:1052:VAL:HB	1.63	0.78
1:E:36:PHE:CE1	1:H:122:LYS:NZ	2.50	0.78
1:E:365:ALA:HB1	1:E:376:PHE:HE1	1.49	0.78
1:E:621:ARG:NH2	1:F:698:GLU:OE2	2.16	0.78
1:E:842:MET:HG2	4:k:61:LEU:CD2	2.12	0.78
1:F:582:LEU:CD1	1:F:587:CYS:HB3	2.08	0.78
1:H:510:ARG:NE	1:H:977:PRO:HB3	1.97	0.78
1:J:43:ARG:CZ	1:K:114:GLN:HG3	2.14	0.78
1:J:280:THR:CA	1:J:1063:VAL:HG12	2.12	0.78
1:J:1276:PHE:O	1:J:1277:PHE:CB	2.30	0.78
1:K:1218:LYS:HE2	1:L:1173:ARG:NH2	1.97	0.78
1:M:553:VAL:HG23	1:M:556:VAL:HG13	1.63	0.78
1:M:759:GLY:HA3	1:M:781:GLY:CA	2.12	0.78

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:33:PHE:HB3	2:Q:70:ARG:HG3	1.66	0.78
3:S:278:HIS:HB3	3:S:279:PRO:HD3	0.81	0.78
2:W:33:PHE:HB3	2:W:70:ARG:HG3	1.66	0.78
2:d:267:ARG:HH12	3:e:145:ARG:CB	1.95	0.78
1:E:267:ALA:HB1	1:E:274:VAL:N	1.99	0.78
1:F:842:MET:HE1	1:F:894:LEU:HD23	1.65	0.78
1:H:301:ASP:CB	1:H:303:PRO:HD3	2.14	0.78
1:J:638:GLU:OE2	1:J:677:TYR:OH	2.01	0.78
1:J:1059:VAL:HG23	1:J:1119:VAL:CG2	2.12	0.78
1:J:1229:HIS:NE2	1:J:1241:THR:CG2	2.47	0.78
1:J:1342:LEU:HD21	1:J:1357:HIS:HB2	1.63	0.78
1:K:579:ASN:ND2	1:K:595:ARG:HH22	1.81	0.78
1:L:1218:LYS:HZ2	2:d:184:ALA:HB2	1.48	0.78
1:P:841:ASN:HD22	1:P:874:THR:HA	0.73	0.78
2:R:79:LEU:HB3	2:R:80:PRO:HD2	1.62	0.78
3:S:312:LEU:O	3:S:422:PHE:HA	1.83	0.78
2:T:33:PHE:HB3	2:T:70:ARG:CG	2.13	0.78
2:a:161:ARG:CG	2:a:173:LEU:HD23	2.13	0.78
3:b:346:LEU:HD13	3:b:346:LEU:O	1.83	0.78
4:g:86:GLU:H	4:g:105:ASP:CB	1.95	0.78
4:q:107:LYS:HG2	4:q:108:THR:N	1.97	0.78
1:B:1083:HIS:CE1	1:B:1090:ASN:CB	2.66	0.78
1:B:1210:ALA:HB3	1:B:1329:GLN:NE2	1.98	0.78
1:C:948:THR:HA	4:j:103:VAL:CB	2.13	0.78
1:J:45:ASP:OD1	1:J:46:GLU:N	2.15	0.78
1:J:83:LYS:HA	1:J:1075:LEU:O	1.83	0.78
1:J:840:GLN:CD	4:o:58:ALA:CB	2.53	0.78
1:J:960:VAL:HA	1:J:994:LEU:HD13	1.65	0.78
1:N:107:ASP:O	1:N:110:HIS:CE1	2.36	0.78
1:O:638:GLU:OE2	1:O:677:TYR:OH	2.01	0.78
1:P:914:PRO:HB2	1:P:919:ASN:CB	2.12	0.78
2:R:129:ARG:NE	2:R:136:THR:HG23	1.98	0.78
2:Z:116:LEU:HD21	2:Z:143:LEU:HD12	1.64	0.78
4:n:99:SER:O	4:n:100:PRO:CB	2.31	0.78
4:o:99:SER:O	4:o:100:PRO:CB	2.30	0.78
1:G:77:VAL:HG21	1:G:277:VAL:HG23	1.65	0.78
1:G:77:VAL:HA	1:G:266:HIS:CE1	2.19	0.78
1:A:842:MET:HG2	4:g:61:LEU:HD21	1.64	0.78
1:A:956:TYR:HE1	1:A:958:LEU:HD22	1.48	0.78
1:B:1106:TYR:OH	1:B:1290:GLU:OE1	2.02	0.78
1:D:35:LEU:CB	1:L:1291:ARG:HH22	1.96	0.78

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:752:ARG:HH21	1:F:752:ARG:CB	1.95	0.78
1:F:842:MET:HE3	4:l:61:LEU:CD1	2.12	0.78
1:H:838:THR:HG23	4:n:94:LEU:HA	1.66	0.78
1:H:1346:ALA:HB2	1:H:1362:LEU:HD11	1.65	0.78
1:M:47:ASN:CG	3:Y:276:THR:HB	2.08	0.78
1:M:842:MET:HE3	4:f:61:LEU:HD13	1.64	0.78
1:N:1073:TYR:OH	1:N:1097:ARG:NH1	2.17	0.78
1:N:1078:LEU:CG	3:V:82:ASP:OD2	2.30	0.78
1:O:486:PRO:HD2	1:O:509:TRP:CZ3	2.19	0.78
1:P:267:ALA:HB1	1:P:274:VAL:H	1.48	0.78
1:P:960:VAL:HA	1:P:994:LEU:HD13	1.65	0.78
4:j:22:MET:HE2	4:j:60:ALA:HB3	1.51	0.78
4:q:1:MET:H3	4:q:5:GLN:HB2	1.48	0.78
1:B:275:ASP:OD1	1:B:374:LEU:O	2.02	0.78
1:C:751:HIS:NE2	1:C:754:CYS:HB2	1.99	0.78
1:C:764:VAL:HG13	1:C:782:ARG:HD3	1.66	0.78
1:D:75:LEU:HD11	1:D:185:LEU:CD1	2.14	0.78
1:I:268:ASP:N	1:I:274:VAL:HG23	1.98	0.78
1:I:1166:PHE:HE1	2:W:284:GLN:NE2	1.80	0.78
1:J:248:LEU:HD23	1:J:293:LEU:HD21	1.64	0.78
1:J:400:LEU:HD21	1:J:1368:PRO:HB2	1.64	0.78
1:K:778:ARG:HD3	1:K:903:GLU:CG	2.13	0.78
1:M:493:ALA:HB2	1:M:559:PRO:O	1.83	0.78
1:M:559:PRO:O	1:M:755:ARG:NH1	2.17	0.78
1:N:753:ASP:HB2	1:N:911:SER:OG	1.84	0.78
1:O:532:MET:HB3	1:O:534:PRO:HD2	1.66	0.78
3:Y:421:ALA:CA	3:Y:464:ALA:HB2	2.08	0.78
2:Z:33:PHE:HB3	2:Z:70:ARG:CG	2.13	0.78
2:c:116:LEU:HD21	2:c:143:LEU:HD12	1.64	0.78
1:A:452:LEU:HD23	1:A:456:ASN:ND2	1.97	0.78
1:C:917:GLY:CA	1:C:1034:VAL:CG2	2.61	0.78
1:F:665:VAL:O	1:F:812:TYR:OH	1.99	0.78
1:F:788:GLN:HB3	1:F:800:HIS:CE1	2.18	0.78
1:F:1085:THR:HG21	1:F:1090:ASN:HD21	1.36	0.78
1:F:1210:ALA:HB3	1:F:1329:GLN:NE2	1.99	0.78
1:J:1301:SER:HB3	1:J:1321:VAL:CG1	2.14	0.78
1:K:778:ARG:NH2	1:K:782:ARG:HB2	1.99	0.78
1:L:840:GLN:OE1	4:q:58:ALA:HB2	1.84	0.78
1:O:534:PRO:CB	1:P:1154:GLY:N	2.43	0.78
3:S:417:CYS:O	3:S:418:THR:HG23	1.80	0.78
3:Y:112:ARG:NH1	3:Y:262:SER:OG	2.15	0.78

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Y:120:CYS:O	3:Y:215:TYR:CD2	2.36	0.78
2:a:145:THR:HG23	2:a:293:PRO:HG3	1.63	0.78
4:j:107:LYS:HG2	4:j:108:THR:N	1.99	0.78
4:n:7:HIS:CE1	4:n:44:HIS:NE2	2.28	0.78
1:G:784:LEU:HD11	1:G:902:ALA:HA	1.65	0.78
1:C:134:SER:CB	1:C:1090:ASN:HA	2.13	0.78
1:D:1201:ARG:HH11	1:E:448:GLN:HE21	1.32	0.78
1:F:752:ARG:NH2	1:F:752:ARG:HB2	1.98	0.78
1:I:473:VAL:O	1:I:477:ASN:ND2	2.15	0.78
1:J:400:LEU:HD22	1:J:1369:LEU:HD21	1.66	0.78
1:M:1118:PRO:CB	1:M:1122:MET:CE	2.62	0.78
1:O:445:LYS:HE2	1:O:1179:HIS:O	1.84	0.78
1:P:842:MET:HG3	4:t:61:LEU:HD21	1.64	0.78
3:V:112:ARG:NH1	3:V:262:SER:OG	2.15	0.78
3:e:316:TYR:CD2	3:e:419:TYR:O	2.36	0.78
4:g:1:MET:H3	4:g:5:GLN:HB2	1.48	0.78
1:B:842:MET:HE3	4:h:61:LEU:CD1	2.13	0.78
1:D:445:LYS:HD2	1:D:1118:PRO:HG2	1.62	0.78
1:D:461:VAL:HG21	1:D:1050:PHE:HZ	1.49	0.78
1:E:956:TYR:HE1	1:E:958:LEU:HD11	1.45	0.78
1:F:1085:THR:HG23	1:F:1090:ASN:CG	2.05	0.78
1:J:70:PHE:O	1:J:76:SER:CA	2.32	0.78
1:K:1113:ALA:O	1:K:1114:THR:HG23	1.84	0.78
1:K:1208:ARG:NH1	1:K:1228:ASP:O	2.16	0.78
1:M:207:ASN:ND2	1:N:390:VAL:C	2.41	0.78
1:N:67:LEU:HD22	1:N:69:ARG:NH2	1.99	0.78
3:Y:434:ARG:HH11	3:Y:436:LEU:HD21	1.44	0.78
2:Z:160:ILE:HD13	2:Z:210:VAL:CG2	2.14	0.78
4:n:10:SER:N	4:n:17:VAL:CB	2.46	0.78
1:G:295:VAL:HG11	1:G:374:LEU:CD1	2.15	0.77
1:G:1182:ASP:HB2	1:G:1309:VAL:HG13	1.66	0.77
1:A:403:VAL:HG23	1:A:1331:ALA:CB	2.12	0.77
1:A:1029:PHE:HB3	1:A:1039:GLN:HE22	1.47	0.77
1:C:1190:THR:HG22	1:C:1243:ASN:ND2	1.99	0.77
1:D:840:GLN:NE2	4:j:58:ALA:HB2	1.99	0.77
1:D:867:PRO:HB3	4:k:80:ALA:CB	2.13	0.77
1:E:258:SER:HB2	1:E:1103:GLY:HA2	1.64	0.77
1:E:833:ASP:O	4:k:54:LEU:HD11	1.83	0.77
1:F:544:HIS:CD2	1:F:546:ALA:H	2.02	0.77
1:I:472:ALA:HB2	1:I:1255:LEU:HD11	1.66	0.77
1:I:1202:PRO:O	1:I:1331:ALA:O	2.02	0.77

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:1218:LYS:HE2	1:L:1173:ARG:HH21	1.49	0.77
1:L:291:SER:O	1:L:294:LYS:HE3	1.84	0.77
1:O:419:HIS:CD2	1:P:421:GLY:O	2.37	0.77
1:O:758:ALA:HB2	1:O:906:THR:HG23	1.64	0.77
1:O:1059:VAL:HG23	1:O:1119:VAL:HG21	1.67	0.77
1:P:558:LEU:CD1	1:P:999:PHE:CZ	2.67	0.77
3:S:107:ARG:O	3:S:270:PRO:HD2	1.84	0.77
2:U:145:THR:HG22	2:U:293:PRO:HG3	1.61	0.77
3:Y:143:LEU:O	3:Y:145:ARG:N	2.16	0.77
3:e:107:ARG:O	3:e:270:PRO:HD2	1.84	0.77
1:G:822:ARG:CZ	1:G:1020:LEU:HD22	2.12	0.77
1:G:844:VAL:HG22	1:G:864:PRO:HB3	1.66	0.77
1:A:357:ALA:O	1:A:359:GLN:NE2	2.17	0.77
1:B:1206:ARG:NH2	1:B:1208:ARG:O	2.17	0.77
1:E:365:ALA:CB	1:E:376:PHE:HE1	1.97	0.77
1:E:844:VAL:HG12	4:k:68:HIS:CB	2.13	0.77
1:F:1190:THR:HG22	1:F:1243:ASN:HD22	1.49	0.77
1:H:272:ARG:CD	1:H:374:LEU:HD11	2.12	0.77
1:I:1215:ALA:HB2	1:I:1222:VAL:CG2	2.13	0.77
1:J:278:LEU:CB	1:J:375:VAL:HG11	2.09	0.77
1:J:419:HIS:O	1:J:422:ASP:OD1	2.02	0.77
1:J:986:HIS:ND1	1:J:986:HIS:O	2.17	0.77
1:M:70:PHE:O	1:M:70:PHE:CD2	2.37	0.77
1:N:785:HIS:ND1	1:N:785:HIS:O	2.15	0.77
1:O:840:GLN:OE1	4:s:58:ALA:HB2	1.77	0.77
1:P:528:ALA:O	1:P:529:GLU:HG3	1.84	0.77
2:U:281:HIS:HE1	3:V:466:ALA:HB2	1.50	0.77
2:c:33:PHE:HB3	2:c:70:ARG:CG	2.13	0.77
1:G:407:GLY:HA2	1:G:454:MET:HE1	1.66	0.77
1:C:114:GLN:CD	1:M:44:SER:OG	2.27	0.77
1:D:94:ARG:CZ	1:I:9:PRO:HG3	2.14	0.77
1:E:1072:ALA:HB2	1:E:1102:LEU:HD21	1.65	0.77
1:K:846:GLU:CD	4:p:67:THR:OG1	2.26	0.77
1:M:889:PRO:CD	4:f:69:ALA:CB	2.61	0.77
1:M:944:HIS:O	1:M:945:LEU:CB	2.33	0.77
1:N:730:ALA:HB2	1:N:750:ARG:HH12	1.48	0.77
1:P:1095:GLN:HE21	1:P:1097:ARG:HE	1.32	0.77
2:Q:160:ILE:HD13	2:Q:206:VAL:HG11	1.65	0.77
2:X:281:HIS:HE1	3:Y:466:ALA:HB2	1.50	0.77
2:a:71:PHE:HE2	3:b:309:PHE:CE1	2.00	0.77
1:G:1166:PHE:HD2	2:Q:281:HIS:CG	2.02	0.77

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:231:SER:O	1:B:236:LYS:HE2	1.84	0.77
1:D:1085:THR:HG22	1:D:1088:GLY:O	1.82	0.77
1:J:184:MET:HB3	1:J:188:LEU:HD11	1.67	0.77
1:J:1029:PHE:HB3	1:J:1039:GLN:HE21	1.48	0.77
1:K:918:ALA:HB2	1:K:1032:SER:HB2	1.64	0.77
1:N:675:VAL:HA	1:N:687:MET:HE1	1.65	0.77
1:O:488:GLY:H	1:O:520:TRP:HH2	1.32	0.77
2:a:35:PRO:HG3	2:a:70:ARG:HH12	0.68	0.77
3:b:189:PHE:CB	3:b:211:ILE:CD1	2.60	0.77
4:s:1:MET:O	4:s:5:GLN:HB3	1.85	0.77
1:G:788:GLN:HG3	1:G:791:ALA:HA	1.67	0.77
1:G:863:HIS:O	1:G:869:ASN:ND2	2.17	0.77
1:B:638:GLU:OE2	1:B:677:TYR:OH	2.02	0.77
1:D:1229:HIS:CD2	1:D:1241:THR:CG2	2.61	0.77
1:E:365:ALA:HB1	1:E:376:PHE:CE1	2.20	0.77
1:F:232:PHE:CE2	1:F:398:MET:HE1	2.18	0.77
1:F:754:CYS:HG	1:F:910:CYS:HG	1.28	0.77
1:J:248:LEU:CD2	1:J:293:LEU:HD21	2.14	0.77
1:J:295:VAL:CG1	1:J:297:ASP:OD1	2.32	0.77
1:J:814:TYR:O	1:J:818:PRO:HG2	1.85	0.77
1:K:481:VAL:HG12	1:K:482:GLU:N	2.00	0.77
1:L:675:VAL:HA	1:L:687:MET:HE1	1.66	0.77
1:N:1078:LEU:CG	3:V:82:ASP:CG	2.51	0.77
1:N:1160:ALA:O	1:N:1161:GLN:HG2	1.85	0.77
3:b:296:LEU:CD2	3:b:450:VAL:HG23	2.12	0.77
3:e:447:VAL:HG12	3:e:448:PRO:HD2	1.66	0.77
4:g:1:MET:O	4:g:5:GLN:HB3	1.85	0.77
4:l:7:HIS:CE1	4:l:44:HIS:NE2	2.28	0.77
4:s:15:ASP:CB	4:s:29:THR:N	2.48	0.77
1:A:35:LEU:HD12	1:A:35:LEU:N	1.99	0.77
1:A:840:GLN:NE2	4:g:58:ALA:HB2	2.00	0.77
1:B:1080:VAL:HG13	1:B:1092:THR:C	2.08	0.77
1:C:124:ILE:HG12	1:C:1100:VAL:CG2	2.15	0.77
1:E:1210:ALA:HB3	1:E:1329:GLN:NE2	1.99	0.77
1:F:501:MET:CE	1:F:958:LEU:HD11	2.15	0.77
1:H:840:GLN:HE22	4:m:58:ALA:HB2	1.48	0.77
1:J:743:MET:CE	1:J:796:ASP:C	2.57	0.77
1:J:944:HIS:CE1	1:J:951:ASN:CG	2.62	0.77
1:N:833:ASP:O	4:r:54:LEU:HD11	1.85	0.77
1:O:216:ARG:NH2	1:O:1287:ARG:O	2.18	0.77
2:Q:92:LEU:CD1	2:Q:95:ALA:HB3	2.13	0.77

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:T:156:VAL:O	2:T:160:ILE:HG12	1.83	0.77
2:W:182:ASN:OD1	2:W:183:GLY:N	2.17	0.77
3:Y:278:HIS:HB3	3:Y:279:PRO:HD3	0.79	0.77
2:Z:217:THR:O	2:Z:220:ILE:HG22	1.85	0.77
4:m:1:MET:N	4:m:5:GLN:HB2	2.00	0.77
4:q:1:MET:O	4:q:5:GLN:HB3	1.85	0.77
1:A:269:THR:HA	1:A:300:ALA:HB1	1.64	0.77
1:E:764:VAL:HG13	1:E:782:ARG:HE	1.50	0.77
1:I:752:ARG:HA	1:I:752:ARG:HH21	1.50	0.77
1:I:785:HIS:NE2	1:I:800:HIS:CD2	2.53	0.77
1:J:394:LEU:CD2	1:J:1064:LEU:HB2	2.14	0.77
1:J:759:GLY:HA3	1:J:779:ASN:O	1.84	0.77
1:K:155:LEU:HD12	1:P:340:GLN:OE1	1.83	0.77
3:S:447:VAL:HG12	3:S:448:PRO:HD2	1.66	0.77
3:Y:107:ARG:O	3:Y:270:PRO:HD2	1.84	0.77
2:a:97:THR:CG2	2:a:315:ILE:CB	2.62	0.77
3:e:292:ALA:HB3	3:e:295:ASP:HB2	1.66	0.77
4:i:7:HIS:CE1	4:i:44:HIS:HE1	1.94	0.77
4:j:10:SER:H	4:j:17:VAL:CB	1.98	0.77
4:l:21:GLY:O	4:l:22:MET:C	2.27	0.77
4:p:1:MET:N	4:p:5:GLN:HB2	2.00	0.77
4:r:1:MET:O	4:r:5:GLN:HB3	1.85	0.77
1:G:1243:ASN:ND2	1:G:1246:ALA:HB3	1.99	0.77
1:A:482:GLU:HA	1:A:569:GLY:N	2.00	0.77
1:B:466:LEU:HD12	1:B:466:LEU:O	1.85	0.77
1:C:1206:ARG:CB	1:C:1277:PHE:CZ	2.67	0.77
1:C:1258:ASN:HA	1:C:1277:PHE:O	1.84	0.77
1:F:1197:ASN:ND2	1:F:1200:ARG:NH2	2.33	0.77
1:H:77:VAL:HB	1:H:266:HIS:CE1	2.20	0.77
1:I:633:ALA:HB2	1:I:839:LEU:HD11	1.65	0.77
1:I:752:ARG:CD	1:I:927:ARG:CZ	2.63	0.77
1:I:838:THR:HG23	4:o:94:LEU:HA	1.65	0.77
1:J:182:ASP:OD1	1:J:186:HIS:NE2	2.16	0.77
1:J:723:ASN:O	1:J:1030:LYS:N	2.16	0.77
1:N:730:ALA:C	1:N:745:HIS:CE1	2.62	0.77
1:P:148:LEU:HD21	1:P:155:LEU:CA	2.14	0.77
1:P:665:VAL:O	1:P:812:TYR:OH	2.02	0.77
1:P:759:GLY:CA	1:P:780:ASP:CA	2.61	0.77
1:P:1277:PHE:O	1:P:1278:THR:HG23	1.85	0.77
2:Q:106:VAL:O	2:Q:306:VAL:O	2.03	0.77
3:S:134:LEU:HD13	3:S:245:MET:CG	2.10	0.77

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:W:116:LEU:HD21	2:W:143:LEU:HD12	1.64	0.77
2:Z:92:LEU:CD1	2:Z:95:ALA:CB	2.59	0.77
2:a:161:ARG:HB3	2:a:161:ARG:CZ	2.14	0.77
2:d:145:THR:HG23	2:d:293:PRO:HG3	1.62	0.77
4:h:1:MET:O	4:h:5:GLN:HB3	1.85	0.77
4:m:1:MET:O	4:m:5:GLN:HB3	1.85	0.77
4:p:1:MET:O	4:p:5:GLN:HB3	1.85	0.77
1:G:94:ARG:HD3	1:G:121:THR:CG2	2.14	0.77
1:A:321:VAL:HG13	1:A:326:VAL:CA	2.15	0.77
1:D:1085:THR:HG22	1:D:1088:GLY:C	2.09	0.77
1:E:853:CYS:HB2	4:k:69:ALA:O	1.85	0.77
1:E:1115:VAL:HG11	1:E:1374:LEU:HD21	1.65	0.77
1:F:532:MET:C	1:F:534:PRO:CD	2.58	0.77
1:J:892:LEU:HD21	4:o:65:GLY:CA	2.15	0.77
1:J:1115:VAL:CB	1:J:1374:LEU:HD21	2.14	0.77
1:J:1131:LEU:HD11	1:J:1157:LEU:HB3	1.67	0.77
1:M:520:TRP:CH2	1:M:988:PRO:HD2	2.19	0.77
1:N:1078:LEU:CD1	3:V:82:ASP:C	2.56	0.77
1:N:1121:ASP:OD1	1:N:1179:HIS:HB2	1.85	0.77
1:O:521:VAL:HG21	1:P:710:PRO:HG2	1.66	0.77
3:S:251:LEU:HD23	3:S:254:TRP:HZ3	1.49	0.77
3:V:251:LEU:HD23	3:V:254:TRP:HZ3	1.49	0.77
3:V:302:LEU:H	3:V:302:LEU:CD2	1.97	0.77
3:b:268:SER:HB2	3:b:457:TRP:HB2	1.67	0.77
2:d:134:ASP:O	2:d:135:LEU:HG	1.85	0.77
4:j:1:MET:O	4:j:5:GLN:HB3	1.85	0.77
4:k:1:MET:N	4:k:5:GLN:HB2	2.00	0.77
4:k:7:HIS:CE1	4:k:44:HIS:HE1	1.94	0.77
1:G:580:GLY:HA2	1:G:592:ARG:HH12	1.47	0.77
1:A:112:VAL:HG12	1:B:132:ALA:CB	2.15	0.77
1:A:321:VAL:HG13	1:A:326:VAL:HB	1.66	0.77
1:D:768:ALA:CA	1:D:786:ASN:HD21	1.80	0.77
1:E:707:PHE:HA	1:E:1042:THR:HG21	1.65	0.77
1:H:443:TRP:HZ2	1:H:1347:ARG:CG	1.94	0.77
1:I:29:VAL:O	1:I:32:HIS:N	2.18	0.77
1:K:267:ALA:HA	1:K:273:PRO:HA	1.67	0.77
1:M:200:PRO:O	1:M:204:TYR:CD1	2.38	0.77
1:M:726:MET:HE1	1:M:814:TYR:HB2	1.68	0.77
1:M:1225:LEU:HD21	1:M:1234:PRO:HG2	1.67	0.77
1:O:78:ALA:CA	1:O:1068:ARG:O	2.33	0.77
1:O:488:GLY:CA	1:O:520:TRP:HH2	1.98	0.77

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:124:ILE:CG1	1:P:1100:VAL:HG23	2.15	0.77
2:d:281:HIS:HE1	3:e:466:ALA:HB2	1.50	0.77
1:G:263:ARG:HH12	1:G:359:GLN:NE2	1.81	0.76
1:G:1210:ALA:HB3	1:G:1329:GLN:NE2	2.00	0.76
1:A:530:GLN:CB	1:A:536:ASN:HD21	1.97	0.76
1:B:534:PRO:CB	1:C:1154:GLY:N	2.47	0.76
1:B:1160:ALA:O	1:B:1161:GLN:O	2.03	0.76
1:B:1204:ASN:HD22	1:B:1205:PRO:HD2	1.50	0.76
1:D:404:LEU:HB3	1:D:440:LEU:HD21	1.67	0.76
1:D:873:ASN:HD21	4:k:92:PHE:CB	1.97	0.76
1:F:43:ARG:O	1:F:44:SER:OG	2.04	0.76
1:H:814:TYR:O	1:H:818:PRO:HG2	1.85	0.76
1:M:833:ASP:O	4:f:54:LEU:HD11	1.84	0.76
1:O:759:GLY:HA2	1:O:780:ASP:N	2.00	0.76
3:V:292:ALA:HB3	3:V:295:ASP:HB2	1.66	0.76
2:X:16:ILE:HA	2:X:132:SER:HB2	1.65	0.76
3:Y:278:HIS:CB	3:Y:279:PRO:CD	2.47	0.76
3:b:191:VAL:HG21	3:b:291:CYS:SG	2.25	0.76
4:h:1:MET:N	4:h:5:GLN:HB2	2.00	0.76
4:o:7:HIS:CE1	4:o:44:HIS:NE2	2.28	0.76
1:G:304:VAL:CG1	1:G:358:PRO:O	2.32	0.76
1:A:844:VAL:HG12	4:g:68:HIS:CB	2.14	0.76
1:A:1347:ARG:O	1:A:1348:ASP:CG	2.28	0.76
1:B:837:ALA:CB	4:i:94:LEU:O	2.33	0.76
1:C:267:ALA:HB3	1:C:274:VAL:H	1.48	0.76
1:C:357:ALA:O	1:C:358:PRO:O	2.04	0.76
1:D:920:THR:HG22	1:D:1138:LEU:HD23	1.67	0.76
1:J:81:CYS:HB2	1:J:306:TYR:HE1	1.47	0.76
1:J:406:LEU:HD12	1:J:1187:PHE:HE1	1.51	0.76
1:J:1210:ALA:HB3	1:J:1329:GLN:NE2	2.00	0.76
1:N:889:PRO:CD	4:r:69:ALA:HB1	2.11	0.76
2:X:134:ASP:O	2:X:135:LEU:HG	1.85	0.76
3:Y:251:LEU:HD23	3:Y:254:TRP:HZ3	1.49	0.76
4:f:1:MET:O	4:f:5:GLN:HB3	1.85	0.76
4:g:1:MET:N	4:g:5:GLN:HB2	2.00	0.76
4:t:1:MET:O	4:t:5:GLN:HB3	1.85	0.76
4:t:10:SER:O	4:t:16:ASN:C	2.27	0.76
1:A:844:VAL:CG1	4:g:68:HIS:CB	2.63	0.76
1:C:51:ASP:CB	3:S:278:HIS:CB	2.56	0.76
1:C:259:VAL:HG11	1:C:1102:LEU:HG	1.67	0.76
1:D:665:VAL:O	1:D:812:TYR:OH	2.04	0.76

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1346:ALA:HB2	1:D:1362:LEU:HD11	1.68	0.76
1:E:1115:VAL:CG1	1:E:1374:LEU:HD21	2.15	0.76
1:H:288:LEU:HD13	1:H:292:PHE:HD2	1.48	0.76
1:H:443:TRP:HZ2	1:H:1347:ARG:HD2	1.51	0.76
1:I:847:ILE:HG23	4:n:71:ASN:HA	1.65	0.76
1:J:401:THR:CB	1:J:1055:GLN:HA	2.15	0.76
1:M:1078:LEU:HD11	3:e:40:PRO:HD3	1.67	0.76
1:M:1300:VAL:HG22	1:M:1318:ARG:HG2	1.65	0.76
1:N:840:GLN:NE2	4:r:58:ALA:CB	2.46	0.76
1:N:840:GLN:OE1	4:r:58:ALA:HB2	1.84	0.76
3:b:302:LEU:HD23	3:b:302:LEU:N	2.01	0.76
2:c:33:PHE:HB3	2:c:70:ARG:HG3	1.66	0.76
2:d:161:ARG:NH1	2:d:174:PRO:CD	2.48	0.76
4:g:9:PRO:CA	4:g:17:VAL:CB	2.63	0.76
4:i:1:MET:O	4:i:5:GLN:HB3	1.85	0.76
4:l:1:MET:O	4:l:5:GLN:HB3	1.85	0.76
4:n:53:PHE:O	4:n:54:LEU:C	2.28	0.76
4:q:1:MET:N	4:q:5:GLN:HB2	2.00	0.76
1:G:248:LEU:HD23	1:G:293:LEU:CD1	1.97	0.76
1:A:621:ARG:NH2	1:B:698:GLU:OE2	2.18	0.76
1:B:520:TRP:H	1:B:520:TRP:CD1	2.01	0.76
1:D:841:ASN:OD1	4:j:26:VAL:HG22	1.86	0.76
1:D:889:PRO:CD	4:j:69:ALA:CB	2.64	0.76
1:E:270:ARG:NH2	1:E:298:THR:OG1	2.18	0.76
1:I:752:ARG:HG3	1:I:927:ARG:NE	2.01	0.76
1:J:231:SER:OG	1:J:398:MET:HE1	1.85	0.76
1:J:512:ARG:NH2	1:J:563:VAL:HG11	1.99	0.76
1:K:846:GLU:CD	4:p:67:THR:HG1	1.93	0.76
1:L:534:PRO:HB3	1:M:1154:GLY:CA	2.15	0.76
1:L:1131:LEU:HD11	1:L:1157:LEU:CD1	2.14	0.76
1:N:1348:ASP:OD1	1:N:1348:ASP:O	2.03	0.76
1:P:759:GLY:CA	1:P:781:GLY:N	2.40	0.76
2:U:134:ASP:O	2:U:135:LEU:HG	1.85	0.76
3:V:39:PRO:CG	3:V:41:ILE:O	2.33	0.76
2:X:13:PRO:CD	2:X:43:LEU:CD2	2.62	0.76
2:X:121:PHE:CE1	2:X:186:LEU:HB3	2.21	0.76
3:Y:436:LEU:HD22	3:Y:450:VAL:HG21	1.68	0.76
4:f:1:MET:N	4:f:5:GLN:HB2	2.00	0.76
1:G:1266:ALA:HA	1:G:1312:LYS:NZ	1.99	0.76
1:C:124:ILE:HD13	1:D:58:LEU:CD1	2.15	0.76
1:C:309:MET:HE1	1:C:1074:PHE:CD1	2.20	0.76

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:145:GLY:O	1:E:146:GLU:HB3	1.84	0.76
1:E:892:LEU:HD11	4:k:65:GLY:HA2	1.67	0.76
1:F:71:LEU:CD1	1:F:305:THR:HA	2.15	0.76
1:J:399:ASP:C	1:J:400:LEU:CD1	2.57	0.76
1:J:915:ASP:HB3	1:J:1030:LYS:HZ3	1.50	0.76
1:J:1051:THR:O	1:J:1187:PHE:HA	1.86	0.76
1:K:750:ARG:O	1:K:752:ARG:HD2	1.85	0.76
1:L:591:PHE:HZ	1:L:1045:HIS:HD2	1.33	0.76
1:M:260:ALA:HA	1:M:1068:ARG:NH2	2.00	0.76
3:S:275:HIS:CE1	3:S:281:ARG:H	1.89	0.76
3:Y:198:TYR:OH	3:Y:294:VAL:HG12	1.82	0.76
3:Y:207:VAL:HG22	3:Y:447:VAL:CG1	2.16	0.76
2:a:74:VAL:CG2	2:a:100:LEU:CD1	2.62	0.76
2:a:291:LEU:HD23	3:b:337:ARG:NE	2.00	0.76
4:h:9:PRO:HB3	4:h:18:ARG:O	1.85	0.76
1:G:75:LEU:HD13	1:G:75:LEU:C	2.10	0.76
1:G:419:HIS:CD2	1:G:421:GLY:H	2.04	0.76
1:G:819:ALA:O	1:G:822:ARG:HD3	1.85	0.76
1:A:1229:HIS:NE2	1:A:1241:THR:HG21	1.98	0.76
1:C:267:ALA:HB1	1:C:274:VAL:CG2	2.16	0.76
1:C:1210:ALA:HB3	1:C:1329:GLN:NE2	2.00	0.76
1:E:558:LEU:O	1:E:560:GLY:N	2.18	0.76
1:E:842:MET:HE1	4:k:61:LEU:HD13	1.66	0.76
1:H:267:ALA:HB1	1:H:273:PRO:CA	2.16	0.76
1:I:532:MET:HG3	1:I:534:PRO:HD2	1.67	0.76
1:J:488:GLY:CA	1:J:520:TRP:CH2	2.68	0.76
1:J:1221:ASP:O	1:J:1225:LEU:N	2.19	0.76
1:J:1347:ARG:HG3	1:J:1347:ARG:NH1	1.94	0.76
1:M:840:GLN:CD	4:f:58:ALA:CB	2.55	0.76
1:M:842:MET:CE	4:f:61:LEU:HD13	2.16	0.76
1:N:847:ILE:CG2	4:r:71:ASN:HA	2.16	0.76
1:O:527:THR:HG22	1:O:528:ALA:N	2.01	0.76
1:O:1329:GLN:O	1:O:1330:GLU:HG3	1.85	0.76
1:P:149:ASP:HB2	1:P:151:THR:HG22	1.67	0.76
3:S:292:ALA:HB3	3:S:295:ASP:HB2	1.66	0.76
2:Z:106:VAL:O	2:Z:306:VAL:O	2.03	0.76
3:b:435:CYS:HB3	3:b:437:HIS:HE2	1.49	0.76
3:e:136:HIS:CB	3:e:138:THR:HB	2.15	0.76
4:l:1:MET:H3	4:l:5:GLN:HB2	1.50	0.76
1:G:832:PHE:CD2	1:G:836:TYR:OH	2.38	0.76
1:A:104:ILE:HB	1:B:390:VAL:HG21	1.67	0.76

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:734:PRO:HB3	1:C:960:VAL:HG21	1.68	0.76
1:C:1200:ARG:O	1:C:1201:ARG:HB2	1.83	0.76
1:C:1229:HIS:HE2	1:C:1241:THR:CG2	1.86	0.76
1:F:417:ALA:HB2	1:F:1358:PHE:CE1	2.19	0.76
1:F:933:LEU:HD21	1:F:958:LEU:HD21	1.61	0.76
1:H:841:ASN:CB	4:m:57:GLN:HE21	1.97	0.76
1:I:536:ASN:OD1	1:I:537:ALA:N	2.19	0.76
1:J:401:THR:HG1	1:J:1054:ARG:C	1.94	0.76
1:M:944:HIS:CE1	1:M:972:ASN:HD22	2.04	0.76
3:Y:279:PRO:HB3	3:Y:284:SER:HA	1.68	0.76
2:Z:33:PHE:HB3	2:Z:70:ARG:HG3	1.66	0.76
2:a:32:VAL:HB	2:a:34:LEU:CD2	2.16	0.76
2:a:145:THR:HG22	2:a:293:PRO:HG3	1.61	0.76
4:k:1:MET:O	4:k:5:GLN:HB3	1.85	0.76
4:m:1:MET:H3	4:m:5:GLN:HB2	1.50	0.76
4:n:1:MET:N	4:n:5:GLN:HB2	2.00	0.76
4:o:1:MET:N	4:o:5:GLN:HB2	2.00	0.76
4:t:1:MET:N	4:t:5:GLN:HB2	2.00	0.76
1:G:368:VAL:CG2	1:G:375:VAL:HG13	2.16	0.76
1:A:675:VAL:HA	1:A:687:MET:HE1	1.67	0.76
1:A:1321:VAL:CG1	1:A:1322:GLU:N	2.47	0.76
1:C:750:ARG:C	1:C:752:ARG:HH21	1.93	0.76
1:C:1206:ARG:HB2	1:C:1277:PHE:CZ	2.21	0.76
1:F:433:ARG:HH12	1:F:1341:ALA:HB3	1.51	0.76
1:I:894:LEU:HD23	4:n:61:LEU:CD1	2.15	0.76
1:J:231:SER:O	1:J:236:LYS:HE3	1.85	0.76
1:J:394:LEU:HD21	1:J:1064:LEU:HB3	1.65	0.76
1:J:1056:ASP:OD1	1:J:1120:THR:HG22	1.85	0.76
1:K:527:THR:HG21	1:K:1193:ALA:O	1.86	0.76
1:K:948:THR:HA	4:q:103:VAL:CB	2.15	0.76
1:L:321:VAL:HG12	1:M:14:ALA:CB	2.15	0.76
1:P:1115:VAL:HG11	1:P:1374:LEU:CD2	2.15	0.76
3:S:347:PHE:O	3:S:350:LEU:HD13	1.86	0.76
3:Y:198:TYR:HE1	3:Y:294:VAL:CG1	1.98	0.76
4:f:7:HIS:CE1	4:f:44:HIS:NE2	2.28	0.76
4:j:1:MET:N	4:j:5:GLN:HB2	2.00	0.76
4:o:1:MET:O	4:o:5:GLN:HB3	1.85	0.76
4:s:1:MET:N	4:s:5:GLN:HB2	2.00	0.76
1:D:367:LEU:HD13	1:D:374:LEU:HD21	1.68	0.76
1:E:1248:GLN:O	1:E:1251:SER:OG	2.02	0.76
1:H:831:ARG:O	1:H:835:VAL:HG23	1.85	0.76

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:1218:LYS:HZ3	1:I:1173:ARG:CZ	1.78	0.76
1:I:525:GLN:HE22	1:I:536:ASN:CB	1.99	0.76
1:I:837:ALA:HB2	4:n:54:LEU:CG	2.16	0.76
1:I:1202:PRO:O	1:I:1330:GLU:HB3	1.85	0.76
1:J:13:TYR:CE1	1:J:49:LEU:CD2	2.68	0.76
1:J:595:ARG:HH12	1:J:1026:ALA:HB1	1.50	0.76
1:M:1201:ARG:HG2	1:M:1202:PRO:CD	2.15	0.76
1:O:544:HIS:ND1	1:O:1252:TYR:HB2	2.00	0.76
1:P:129:LEU:HD11	1:P:183:GLN:HE21	1.50	0.76
2:R:134:ASP:O	2:R:135:LEU:HG	1.85	0.76
3:S:143:LEU:HD12	3:S:239:VAL:HG21	1.67	0.76
2:W:106:VAL:O	2:W:306:VAL:O	2.03	0.76
2:a:10:ILE:CD1	2:a:32:VAL:HG21	2.15	0.76
3:b:242:HIS:O	3:b:244:VAL:N	2.19	0.76
3:e:240:PHE:CZ	3:e:418:THR:CG2	2.68	0.76
4:r:1:MET:N	4:r:5:GLN:HB2	2.00	0.76
4:r:1:MET:H3	4:r:5:GLN:HB2	1.50	0.76
1:G:1243:ASN:HD22	1:G:1246:ALA:HB3	1.51	0.76
1:A:532:MET:HE2	1:A:534:PRO:HG2	1.67	0.76
1:F:770:ASN:H	1:F:773:THR:HB	1.51	0.76
1:H:730:ALA:HB2	1:H:750:ARG:HH12	1.51	0.76
1:I:874:THR:HG22	1:I:877:ALA:CB	2.15	0.76
1:I:1233:ASP:HB3	1:I:1236:ARG:O	1.85	0.76
1:J:914:PRO:CG	1:J:919:ASN:CB	2.63	0.76
1:J:915:ASP:HB3	1:J:1030:LYS:NZ	2.01	0.76
1:L:293:LEU:O	1:L:293:LEU:HD23	1.86	0.76
1:O:248:LEU:HD23	1:O:293:LEU:HD23	1.68	0.76
1:P:740:ASP:OD1	1:P:785:HIS:HE1	1.68	0.76
2:T:33:PHE:HB3	2:T:70:ARG:HG3	1.66	0.76
3:V:242:HIS:O	3:V:244:VAL:N	2.19	0.76
3:Y:300:LEU:HD13	3:Y:333:GLN:OE1	1.86	0.76
2:a:35:PRO:CB	2:a:70:ARG:CZ	2.63	0.76
2:c:182:ASN:HA	3:e:138:THR:CG2	2.17	0.76
3:e:39:PRO:HB2	3:e:40:PRO:C	2.10	0.76
4:i:1:MET:N	4:i:5:GLN:HB2	2.00	0.76
4:p:9:PRO:CB	4:p:17:VAL:CB	2.63	0.76
4:r:10:SER:N	4:r:17:VAL:CB	2.49	0.76
4:s:46:THR:CG2	4:s:50:VAL:HG13	2.11	0.76
4:t:74:ALA:HB1	4:t:75:PRO:CD	2.15	0.76
1:G:467:MET:HE1	1:G:1033:PRO:CD	2.01	0.75
1:A:956:TYR:CE1	1:A:958:LEU:HB2	2.21	0.75

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:408:LEU:CD1	1:C:1199:PHE:CE2	2.69	0.75
1:C:983:LEU:HD23	1:C:983:LEU:C	2.12	0.75
1:D:124:ILE:HG12	1:D:1100:VAL:CG2	2.16	0.75
1:F:532:MET:CB	1:F:534:PRO:HD2	2.16	0.75
1:F:933:LEU:CD2	1:F:958:LEU:CD2	2.51	0.75
1:H:530:GLN:CA	1:H:536:ASN:HD21	1.89	0.75
1:H:834:ARG:O	4:n:94:LEU:CB	2.34	0.75
1:I:302:VAL:CG2	1:I:362:ARG:CD	2.62	0.75
1:J:70:PHE:CZ	1:J:79:CYS:SG	2.79	0.75
1:M:544:HIS:CE1	1:M:1252:TYR:CD1	2.73	0.75
1:M:1115:VAL:CB	1:M:1374:LEU:CD2	2.64	0.75
1:N:764:VAL:O	1:N:765:TYR:CD1	2.32	0.75
1:N:1304:THR:HA	1:N:1319:GLU:OE2	1.86	0.75
1:O:364:ARG:NH2	1:O:365:ALA:O	2.19	0.75
1:O:404:LEU:HB3	1:O:440:LEU:HD21	1.68	0.75
1:O:1115:VAL:HG11	1:O:1374:LEU:HD21	1.67	0.75
1:P:76:SER:HB2	1:P:266:HIS:NE2	2.01	0.75
1:P:759:GLY:O	1:P:781:GLY:HA3	1.84	0.75
3:S:242:HIS:O	3:S:244:VAL:N	2.19	0.75
3:V:107:ARG:O	3:V:270:PRO:HD2	1.84	0.75
3:V:143:LEU:O	3:V:146:HIS:N	2.19	0.75
2:X:13:PRO:HG2	2:X:133:LEU:HD13	1.65	0.75
2:X:13:PRO:O	2:X:133:LEU:HD11	1.85	0.75
1:G:153:ILE:CG2	1:G:157:ARG:HB3	2.15	0.75
1:G:419:HIS:ND1	1:G:421:GLY:O	2.20	0.75
1:A:269:THR:CB	1:A:300:ALA:HB2	2.15	0.75
1:C:1313:ARG:HG2	1:C:1314:PRO:HD2	1.68	0.75
1:H:193:PRO:HB3	1:H:1294:VAL:HG12	1.69	0.75
1:H:356:SER:O	1:H:357:ALA:CB	2.33	0.75
1:J:70:PHE:CE2	1:J:79:CYS:SG	2.79	0.75
1:M:407:GLY:HA3	1:M:454:MET:CE	2.16	0.75
1:N:404:LEU:HB3	1:N:440:LEU:HD21	1.68	0.75
1:O:266:HIS:CB	1:O:303:PRO:HA	2.15	0.75
1:O:544:HIS:CE1	1:O:1252:TYR:CD1	2.73	0.75
1:O:1223:ILE:CD1	1:O:1227:TYR:CE2	2.68	0.75
2:R:108:LEU:HB3	2:R:297:VAL:HG21	1.69	0.75
3:S:300:LEU:HD23	3:S:331:LYS:O	1.86	0.75
2:U:108:LEU:HB3	2:U:297:VAL:HG21	1.68	0.75
2:Z:183:GLY:O	2:Z:184:ALA:CB	2.34	0.75
3:e:300:LEU:CD1	3:e:332:SER:HB2	2.17	0.75
1:G:1120:THR:HG21	1:G:1183:ALA:HB2	1.69	0.75

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1313:ARG:HG3	1:G:1317:CYS:CB	2.16	0.75
1:G:1313:ARG:HG2	1:G:1317:CYS:HB2	1.68	0.75
1:A:395:VAL:CG2	1:A:1116:ARG:NH2	2.42	0.75
1:A:580:GLY:HA2	1:A:592:ARG:HH12	1.49	0.75
1:A:1245:TRP:C	1:A:1251:SER:HG	1.94	0.75
1:B:196:ALA:HB1	1:B:227:PHE:HA	1.67	0.75
1:B:920:THR:O	1:B:1139:LEU:HD11	1.85	0.75
1:C:321:VAL:O	1:C:322:MET:HB2	1.87	0.75
1:H:205:LEU:HD21	1:H:1290:GLU:OE2	1.86	0.75
1:I:82:THR:HA	1:I:307:GLY:O	1.87	0.75
1:I:486:PRO:CG	1:I:509:TRP:CZ3	2.56	0.75
1:I:841:ASN:ND2	1:I:873:ASN:O	2.19	0.75
1:J:1118:PRO:HG3	1:J:1374:LEU:HD13	1.68	0.75
1:K:957:VAL:O	1:K:957:VAL:CG1	2.33	0.75
1:L:445:LYS:CD	1:L:1118:PRO:HB2	2.15	0.75
1:N:766:ALA:HB3	1:N:784:LEU:HD12	1.67	0.75
1:O:486:PRO:HG2	1:O:509:TRP:HH2	1.51	0.75
3:b:251:LEU:HD23	3:b:254:TRP:HZ3	1.49	0.75
1:G:530:GLN:HG3	1:G:536:ASN:ND2	2.00	0.75
1:C:847:ILE:HG21	4:i:70:ASN:C	2.11	0.75
1:D:77:VAL:CB	1:D:266:HIS:CE1	2.64	0.75
1:E:638:GLU:OE1	1:E:801:ARG:NH2	2.20	0.75
1:E:842:MET:HE3	4:k:61:LEU:CD2	2.17	0.75
1:H:1201:ARG:HH11	1:I:448:GLN:HE21	0.76	0.75
1:I:872:ALA:HB2	4:o:107:LYS:HB2	1.66	0.75
1:M:541:LEU:HD21	1:M:571:ILE:HD11	1.68	0.75
1:M:1216:GLY:HA3	1:M:1221:ASP:OD2	1.85	0.75
1:N:216:ARG:NH2	1:N:1287:ARG:O	2.18	0.75
1:O:534:PRO:HB2	1:P:1154:GLY:H	1.49	0.75
1:P:1204:ASN:OD1	1:P:1206:ARG:HG2	1.86	0.75
3:S:331:LYS:HZ2	3:S:434:ARG:HD2	1.50	0.75
2:T:106:VAL:O	2:T:306:VAL:O	2.03	0.75
3:Y:242:HIS:O	3:Y:244:VAL:N	2.19	0.75
3:b:148:ALA:C	3:b:152:ARG:HD2	2.11	0.75
3:e:136:HIS:HB3	3:e:138:THR:HG21	1.66	0.75
4:f:10:SER:N	4:f:17:VAL:CB	2.48	0.75
4:h:7:HIS:CE1	4:h:44:HIS:NE2	2.28	0.75
4:i:53:PHE:O	4:i:54:LEU:C	2.28	0.75
4:j:95:LYS:HA	4:j:95:LYS:CE	2.09	0.75
1:G:44:SER:HA	1:G:48:SER:CB	2.15	0.75
1:G:742:LEU:HD12	1:G:754:CYS:SG	2.22	0.75

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:278:LEU:HA	1:A:1064:LEU:O	1.85	0.75
1:A:311:LEU:HD22	1:A:311:LEU:N	2.01	0.75
1:C:268:ASP:O	1:C:269:THR:HG23	1.86	0.75
1:D:44:SER:OG	1:L:114:GLN:HG2	1.85	0.75
1:E:269:THR:O	1:E:270:ARG:CG	2.34	0.75
1:E:840:GLN:CD	4:k:58:ALA:HB2	2.12	0.75
1:H:347:ASN:ND2	1:I:163:GLN:O	2.18	0.75
1:H:532:MET:CE	1:H:534:PRO:CG	2.63	0.75
1:I:646:ARG:CZ	4:n:78:MET:CB	2.64	0.75
1:J:488:GLY:H	1:J:520:TRP:HH2	0.78	0.75
1:J:847:ILE:CG2	4:o:71:ASN:CA	2.64	0.75
1:K:778:ARG:HH12	1:K:782:ARG:NH2	1.84	0.75
1:K:1054:ARG:HH12	1:K:1122:MET:C	1.94	0.75
1:N:122:LYS:NZ	1:N:1103:GLY:O	2.19	0.75
1:N:1131:LEU:HD11	1:N:1157:LEU:HB3	1.67	0.75
1:O:207:ASN:OD1	1:O:208:GLY:N	2.18	0.75
1:P:776:PHE:HA	1:P:903:GLU:HB2	1.68	0.75
2:R:145:THR:HG23	2:R:293:PRO:HG3	1.63	0.75
3:S:288:ILE:HG21	3:S:457:TRP:HH2	1.50	0.75
3:V:287:THR:CG2	3:V:289:PRO:CD	2.33	0.75
1:A:1285:LYS:HD3	1:A:1286:HIS:N	2.02	0.75
1:C:756:ILE:CD1	1:C:757:ASP:H	1.99	0.75
1:C:795:ALA:CB	1:C:800:HIS:CE1	2.70	0.75
1:C:889:PRO:CD	4:i:69:ALA:CB	2.61	0.75
1:D:151:THR:HG21	1:L:86:GLU:HG3	1.69	0.75
1:D:1124:ASN:O	1:D:1156:ARG:NH2	2.18	0.75
1:E:497:PRO:HD2	1:E:504:ARG:HH22	1.52	0.75
1:F:84:PHE:CD2	1:F:87:LEU:CD2	2.69	0.75
1:H:443:TRP:HZ2	1:H:1347:ARG:CD	2.00	0.75
1:J:1336:CYS:SG	1:J:1363:ILE:HB	2.26	0.75
1:J:1338:SER:N	1:J:1361:TYR:O	2.19	0.75
1:K:778:ARG:HG3	1:K:904:ARG:HD3	1.66	0.75
1:K:889:PRO:HD3	4:p:69:ALA:HB1	1.68	0.75
1:K:1229:HIS:CD2	1:K:1241:THR:HG23	2.22	0.75
1:L:321:VAL:HA	1:M:12:ARG:HD2	1.67	0.75
1:M:1125:LEU:HD12	1:M:1126:PRO:HD2	1.69	0.75
1:P:1061:GLU:HB2	1:P:1114:THR:CG2	2.16	0.75
2:Z:108:LEU:CD1	3:b:136:HIS:HE1	1.99	0.75
2:Z:219:LEU:CA	2:a:246:VAL:HG11	2.16	0.75
2:a:35:PRO:HG3	2:a:45:ASP:O	1.87	0.75
2:a:88:VAL:CG1	2:a:295:VAL:HG23	2.16	0.75

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:b:189:PHE:CG	3:b:211:ILE:HD13	2.22	0.75
3:b:197:ALA:HB1	3:b:324:LEU:CD2	2.16	0.75
3:e:251:LEU:HD23	3:e:254:TRP:HZ3	1.49	0.75
3:e:318:GLN:CD	3:e:352:ILE:HG13	2.10	0.75
1:B:534:PRO:HB3	1:C:1154:GLY:C	2.09	0.75
1:C:1083:HIS:CE1	1:C:1090:ASN:HB2	2.20	0.75
1:K:269:THR:OG1	1:K:374:LEU:HD21	1.87	0.75
1:N:960:VAL:HA	1:N:994:LEU:HD13	1.67	0.75
2:R:281:HIS:HE1	3:S:466:ALA:HB2	1.50	0.75
2:U:41:LEU:HD12	2:U:42:ALA:H	1.51	0.75
3:e:287:THR:CG2	3:e:289:PRO:CD	2.33	0.75
4:g:99:SER:O	4:g:100:PRO:CB	2.35	0.75
4:l:1:MET:N	4:l:5:GLN:HB2	2.00	0.75
4:l:46:THR:CG2	4:l:50:VAL:HG13	2.11	0.75
4:n:1:MET:O	4:n:5:GLN:HB3	1.85	0.75
1:G:295:VAL:HG21	1:G:368:VAL:CA	1.95	0.75
1:G:618:PHE:HA	1:G:940:MET:HB3	1.67	0.75
1:A:665:VAL:O	1:A:812:TYR:OH	2.04	0.75
1:B:252:THR:HG22	1:B:253:THR:HG23	1.69	0.75
1:E:759:GLY:CA	1:E:779:ASN:O	2.35	0.75
1:H:404:LEU:HB3	1:H:440:LEU:HD21	1.69	0.75
1:H:1055:GLN:HE22	1:H:1275:LYS:NZ	1.84	0.75
1:J:44:SER:N	1:K:115:PRO:O	2.17	0.75
1:M:1225:LEU:CD2	1:M:1234:PRO:HG3	2.16	0.75
1:N:840:GLN:CD	4:r:58:ALA:CB	2.60	0.75
1:P:297:ASP:CB	1:P:367:LEU:O	2.34	0.75
2:R:13:PRO:HB2	2:R:133:LEU:CD1	2.15	0.75
2:T:92:LEU:CD1	2:T:95:ALA:CB	2.59	0.75
2:a:35:PRO:CG	2:a:70:ARG:HH11	1.78	0.75
4:g:21:GLY:O	4:g:23:ARG:N	2.19	0.75
1:B:252:THR:CG2	1:B:373:ARG:HD3	2.04	0.75
1:C:339:MET:HB3	1:D:159:LEU:HD21	1.69	0.75
1:C:1119:VAL:O	1:C:1119:VAL:HG13	1.85	0.75
1:D:814:TYR:O	1:D:818:PRO:HG2	1.85	0.75
1:I:534:PRO:CD	1:I:535:ASP:H	1.99	0.75
1:I:947:HIS:CG	1:J:638:GLU:OE1	2.39	0.75
1:I:1225:LEU:HD22	1:I:1234:PRO:HG2	1.47	0.75
1:J:407:GLY:CA	1:J:454:MET:HE3	2.15	0.75
1:J:740:ASP:OD1	1:J:785:HIS:NE2	2.19	0.75
1:L:291:SER:CA	1:L:294:LYS:HE2	1.93	0.75
1:L:461:VAL:O	1:L:466:LEU:HD22	1.86	0.75

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:556:VAL:HG21	1:N:565:PRO:HD2	1.67	0.75
1:N:1078:LEU:CD1	3:V:83:THR:HA	2.17	0.75
1:N:1085:THR:HG22	1:N:1086:GLY:H	1.52	0.75
1:O:778:ARG:CD	1:O:903:GLU:HG3	2.16	0.75
3:S:161:TRP:CZ3	3:S:165:LEU:HB2	2.21	0.75
3:V:141:PRO:HB2	3:V:144:ALA:HB3	1.66	0.75
3:b:197:ALA:HB1	3:b:324:LEU:HD13	1.69	0.75
3:b:279:PRO:CB	3:b:283:CYS:N	2.50	0.75
3:e:139:ASP:HB2	3:e:142:HIS:CD2	2.21	0.75
4:h:53:PHE:O	4:h:54:LEU:C	2.28	0.75
4:k:9:PRO:CB	4:k:17:VAL:CB	2.65	0.75
4:q:46:THR:CG2	4:q:50:VAL:HG13	2.11	0.75
1:A:1241:THR:HG21	1:A:1247:SER:OG	1.87	0.74
1:D:1085:THR:CG2	1:D:1088:GLY:C	2.60	0.74
1:E:9:PRO:HD2	1:H:94:ARG:NH2	2.02	0.74
1:F:556:VAL:CG1	1:F:557:GLU:O	2.33	0.74
1:F:1115:VAL:HG11	1:F:1374:LEU:HD21	1.69	0.74
1:H:269:THR:CB	1:H:298:THR:CG2	2.65	0.74
1:I:1200:ARG:O	1:I:1201:ARG:HB2	1.87	0.74
1:J:160:ARG:HH11	1:L:14:ALA:HB2	1.52	0.74
1:J:842:MET:CE	4:o:61:LEU:HD11	2.08	0.74
1:J:920:THR:O	1:J:1139:LEU:CD1	2.35	0.74
1:K:90:MET:HE2	1:L:56:ALA:CB	2.17	0.74
1:K:1115:VAL:HG11	1:K:1374:LEU:HD21	1.69	0.74
1:L:530:GLN:C	1:L:536:ASN:ND2	2.44	0.74
1:M:69:ARG:NH1	3:e:41:ILE:CA	2.33	0.74
1:M:638:GLU:OE2	1:M:677:TYR:OH	2.02	0.74
1:N:738:ASP:HB3	1:N:787:THR:HG23	1.69	0.74
1:O:458:VAL:O	1:O:462:CYS:HB2	1.87	0.74
2:T:296:ARG:CG	2:T:318:PRO:HA	2.17	0.74
2:X:108:LEU:HB3	2:X:297:VAL:HG21	1.69	0.74
3:Y:149:PRO:O	3:Y:152:ARG:HG2	1.86	0.74
2:Z:268:ARG:HA	2:Z:271:LEU:HD12	1.69	0.74
2:a:93:THR:CA	2:a:316:ARG:NH2	2.50	0.74
4:r:9:PRO:HB3	4:r:18:ARG:O	1.87	0.74
1:A:77:VAL:HG21	1:A:376:PHE:CD2	2.22	0.74
1:B:528:ALA:O	1:B:532:MET:SD	2.45	0.74
1:C:1354:ARG:HH22	1:C:1357:HIS:HD2	1.34	0.74
1:F:6:ARG:O	1:F:6:ARG:HD2	1.87	0.74
1:F:1057:ARG:NH2	1:F:1319:GLU:OE2	2.20	0.74
1:J:402:PHE:CD1	1:J:1332:TYR:O	2.40	0.74

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:744:ARG:NE	1:K:803:ALA:HB2	2.02	0.74
1:N:534:PRO:CD	1:N:1230:GLY:O	2.34	0.74
1:N:558:LEU:O	1:N:560:GLY:N	2.19	0.74
1:N:1085:THR:CG2	1:N:1086:GLY:H	2.00	0.74
1:O:476:VAL:HG13	1:O:571:ILE:HD11	1.69	0.74
1:O:1215:ALA:HB1	1:O:1221:ASP:CG	2.12	0.74
1:P:124:ILE:HG13	1:P:1100:VAL:CG2	2.16	0.74
1:P:1218:LYS:HE3	1:P:1221:ASP:CG	2.12	0.74
2:T:296:ARG:HD2	2:T:318:PRO:O	1.86	0.74
2:X:41:LEU:HD12	2:X:42:ALA:H	1.51	0.74
2:Z:218:THR:HA	2:Z:221:LEU:CD2	2.18	0.74
2:a:108:LEU:HB3	2:a:297:VAL:HG21	1.68	0.74
3:b:161:TRP:CH2	3:b:165:LEU:HD21	2.22	0.74
2:d:41:LEU:HD12	2:d:42:ALA:H	1.51	0.74
3:e:242:HIS:O	3:e:244:VAL:N	2.19	0.74
4:j:53:PHE:O	4:j:54:LEU:C	2.28	0.74
4:p:8:ARG:CB	4:p:18:ARG:H	2.00	0.74
1:D:429:HIS:HB3	1:D:430:PRO:CD	2.17	0.74
1:E:302:VAL:N	1:E:303:PRO:HD3	2.01	0.74
1:E:847:ILE:HG21	4:k:71:ASN:HA	0.82	0.74
1:F:1276:PHE:O	1:F:1277:PHE:CD2	2.40	0.74
1:J:402:PHE:HA	1:J:1332:TYR:O	1.88	0.74
1:M:842:MET:CG	4:f:61:LEU:CD2	2.65	0.74
1:P:563:VAL:CG1	1:P:564:PRO:HD2	2.16	0.74
1:P:714:LEU:HB2	1:P:722:LEU:HD11	1.70	0.74
3:b:112:ARG:CD	3:b:264:THR:HG22	2.16	0.74
3:b:235:VAL:CG2	3:b:325:CYS:SG	2.76	0.74
2:c:296:ARG:CG	2:c:318:PRO:HA	2.17	0.74
1:B:77:VAL:HA	1:B:266:HIS:CE1	2.23	0.74
1:B:707:PHE:HA	1:B:1042:THR:HG21	1.67	0.74
1:C:269:THR:CG2	1:C:300:ALA:O	2.36	0.74
1:F:1218:LYS:HA	1:F:1218:LYS:CE	2.16	0.74
1:H:299:GLU:OE1	1:H:364:ARG:CD	2.34	0.74
1:I:83:LYS:HE2	3:Y:41:ILE:HG21	1.68	0.74
1:I:1223:ILE:O	1:I:1223:ILE:HG23	1.86	0.74
1:J:461:VAL:HB	1:J:1050:PHE:HZ	1.53	0.74
1:K:403:VAL:HG23	1:K:1331:ALA:HB1	1.69	0.74
1:M:69:ARG:HH12	3:e:42:ALA:N	1.84	0.74
1:O:553:VAL:CG2	1:O:556:VAL:CG1	2.64	0.74
2:Q:160:ILE:HD11	2:Q:210:VAL:CG2	2.17	0.74
3:Y:300:LEU:HD11	3:Y:333:GLN:N	2.02	0.74

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:b:189:PHE:HD1	3:b:215:TYR:CE2	2.04	0.74
3:b:235:VAL:HG11	3:b:323:GLU:O	1.86	0.74
1:G:272:ARG:NH1	1:G:374:LEU:HB2	2.03	0.74
1:G:521:VAL:HG22	1:G:522:ALA:N	2.03	0.74
1:G:556:VAL:HG11	1:G:565:PRO:HG2	1.69	0.74
1:A:756:ILE:HD11	1:A:906:THR:HG22	1.66	0.74
1:A:1245:TRP:O	1:A:1251:SER:O	2.05	0.74
1:C:675:VAL:HA	1:C:687:MET:HE1	1.69	0.74
1:I:1120:THR:HG21	1:I:1183:ALA:HB2	1.68	0.74
1:J:464:PRO:O	1:J:467:MET:N	2.21	0.74
1:L:624:PRO:HB3	1:L:882:GLY:HA3	1.70	0.74
1:N:730:ALA:O	1:N:745:HIS:HE1	1.63	0.74
1:O:534:PRO:CA	1:P:1154:GLY:HA3	2.14	0.74
1:O:752:ARG:HG3	1:O:927:ARG:NE	2.02	0.74
1:P:124:ILE:HG12	1:P:1100:VAL:CG2	2.18	0.74
1:P:675:VAL:HA	1:P:687:MET:HE1	1.69	0.74
1:P:1095:GLN:HE21	1:P:1097:ARG:NE	1.86	0.74
2:Q:147:LEU:HD13	2:Q:181:TYR:CD1	2.21	0.74
2:T:182:ASN:CG	3:V:136:HIS:CE1	2.65	0.74
2:Z:147:LEU:CD1	2:Z:181:TYR:CD2	2.70	0.74
4:o:53:PHE:O	4:o:54:LEU:C	2.28	0.74
1:C:73:LEU:HD23	1:C:75:LEU:H	1.53	0.74
1:C:707:PHE:HA	1:C:1042:THR:HG21	1.69	0.74
1:F:269:THR:HB	1:F:298:THR:HG21	1.70	0.74
1:I:665:VAL:O	1:I:812:TYR:OH	2.06	0.74
1:J:1054:ARG:NH2	1:J:1185:CYS:SG	2.61	0.74
1:K:638:GLU:OE2	1:K:677:TYR:OH	2.04	0.74
1:M:842:MET:HE1	1:M:894:LEU:HD23	1.67	0.74
1:M:1059:VAL:HG23	1:M:1119:VAL:CG2	2.18	0.74
2:U:17:SER:HB2	2:U:19:PRO:HD2	1.70	0.74
3:Y:88:ASP:C	3:Y:91:LEU:H	1.94	0.74
4:m:7:HIS:CE1	4:m:44:HIS:NE2	2.28	0.74
1:G:1072:ALA:HB3	1:G:1100:VAL:CG2	2.18	0.74
1:A:847:ILE:HG21	4:g:70:ASN:O	1.87	0.74
1:C:404:LEU:HB3	1:C:440:LEU:HD21	1.69	0.74
1:C:814:TYR:O	1:C:818:PRO:HG2	1.86	0.74
1:E:532:MET:CE	1:E:534:PRO:HG2	2.17	0.74
1:H:730:ALA:HB2	1:H:750:ARG:NH1	2.03	0.74
1:J:529:GLU:C	1:J:532:MET:HE2	2.11	0.74
1:J:693:LEU:HD11	1:J:816:LEU:HD21	1.68	0.74
1:J:1271:SER:C	1:J:1273:CYS:N	2.44	0.74

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:1300:VAL:HG11	1:J:1318:ARG:HD3	1.68	0.74
1:O:842:MET:HG2	4:s:61:LEU:CD2	2.15	0.74
1:O:1165:VAL:CG1	2:a:196:ALA:CB	2.48	0.74
3:V:108:TYR:OH	3:V:110:LEU:CG	2.36	0.74
1:G:714:LEU:HB2	1:G:722:LEU:HD11	1.70	0.74
1:G:802:PRO:O	1:G:805:TRP:HB3	1.85	0.74
1:G:832:PHE:HB3	1:G:836:TYR:CD2	2.22	0.74
1:B:1054:ARG:HH22	1:B:1122:MET:C	1.91	0.74
1:E:1100:VAL:HG12	1:E:1101:ASP:N	2.00	0.74
1:F:768:ALA:CA	1:F:786:ASN:HB2	2.14	0.74
1:J:279:VAL:CG2	1:J:1064:LEU:CA	2.65	0.74
1:K:106:ARG:HD3	1:K:110:HIS:CE1	2.22	0.74
1:M:267:ALA:HB1	1:M:274:VAL:HB	1.68	0.74
1:M:378:GLU:OE2	1:M:380:LEU:HD23	1.87	0.74
1:O:117:HIS:HE1	1:P:168:ASN:HD21	1.35	0.74
1:O:827:THR:O	1:O:957:VAL:O	2.05	0.74
1:P:1061:GLU:OE1	1:P:1114:THR:HG21	1.87	0.74
3:S:316:TYR:HD2	3:S:419:TYR:HA	1.53	0.74
2:X:16:ILE:HA	2:X:132:SER:CB	2.17	0.74
2:a:32:VAL:HB	2:a:34:LEU:HD23	1.70	0.74
4:l:53:PHE:O	4:l:54:LEU:C	2.28	0.74
4:t:7:HIS:CE1	4:t:44:HIS:NE2	2.28	0.74
1:A:106:ARG:HG2	1:A:106:ARG:NH1	2.01	0.74
1:A:1222:VAL:O	1:A:1223:ILE:CB	2.34	0.74
1:D:768:ALA:C	1:D:786:ASN:HD21	1.95	0.74
1:D:953:GLU:HG2	1:D:954:TYR:H	1.53	0.74
1:D:1202:PRO:O	1:D:1331:ALA:O	2.06	0.74
1:F:871:VAL:HG13	4:g:107:LYS:NZ	2.03	0.74
1:I:124:ILE:HA	1:I:1100:VAL:HG23	1.68	0.74
1:I:232:PHE:CE1	1:I:1115:VAL:HG22	2.23	0.74
1:J:743:MET:SD	1:J:797:ASP:C	2.71	0.74
1:K:534:PRO:CA	1:L:1154:GLY:HA3	2.17	0.74
1:K:730:ALA:HB2	1:K:750:ARG:HH12	1.52	0.74
1:L:267:ALA:HA	1:L:274:VAL:HG23	1.70	0.74
1:L:707:PHE:HA	1:L:1042:THR:HG21	1.70	0.74
1:L:1079:GLN:HE21	1:L:1094:THR:CG2	2.00	0.74
1:M:266:HIS:O	1:M:302:VAL:O	2.06	0.74
1:M:1059:VAL:HG23	1:M:1119:VAL:HG21	1.69	0.74
1:N:257:PRO:HA	1:N:1067:GLU:OE2	1.88	0.74
1:N:1312:LYS:HE3	3:V:176:GLU:OE2	1.88	0.74
1:O:837:ALA:CB	4:t:94:LEU:O	2.35	0.74

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:227:LEU:HD13	2:Q:228:LEU:H	1.53	0.74
2:R:12:ILE:HD11	2:R:83:ILE:HG13	1.70	0.74
3:V:41:ILE:HD13	3:V:41:ILE:H	1.53	0.74
3:V:200:ALA:CB	3:V:294:VAL:HG13	2.18	0.74
3:V:316:TYR:HD2	3:V:419:TYR:HA	1.53	0.74
2:W:179:LEU:O	2:W:186:LEU:N	2.21	0.74
3:Y:300:LEU:HD12	3:Y:332:SER:HA	1.65	0.74
2:Z:108:LEU:CD1	3:b:136:HIS:CE1	2.71	0.74
2:Z:298:CYS:SG	3:b:109:HIS:HD2	2.07	0.74
3:e:136:HIS:CA	3:e:138:THR:HB	2.17	0.74
3:e:302:LEU:HD23	3:e:302:LEU:N	2.03	0.74
1:A:269:THR:HG22	1:A:300:ALA:CB	2.17	0.74
1:C:714:LEU:HB2	1:C:722:LEU:HD11	1.70	0.74
1:D:675:VAL:HA	1:D:687:MET:HE1	1.69	0.74
1:D:867:PRO:CB	4:k:80:ALA:HB3	2.14	0.74
1:E:956:TYR:CE1	1:E:958:LEU:HD11	2.22	0.74
1:I:252:THR:CG2	1:I:373:ARG:HD3	2.17	0.74
1:J:77:VAL:HG12	1:J:277:VAL:CG1	2.18	0.74
1:J:1301:SER:HB3	1:J:1321:VAL:HG11	1.69	0.74
1:M:1222:VAL:O	1:M:1223:ILE:HB	1.88	0.74
1:M:1225:LEU:HD21	1:N:1176:GLY:HA3	1.67	0.74
1:N:873:ASN:OD1	4:s:92:PHE:CB	2.36	0.74
1:O:51:ASP:CB	3:V:278:HIS:CB	2.63	0.74
1:O:847:ILE:HG21	4:s:70:ASN:C	2.13	0.74
1:P:293:LEU:O	1:P:293:LEU:CD1	2.30	0.74
3:Y:108:TYR:OH	3:Y:110:LEU:CG	2.36	0.74
2:a:157:ALA:O	2:a:160:ILE:HB	1.88	0.74
4:f:53:PHE:O	4:f:54:LEU:C	2.28	0.74
4:i:10:SER:N	4:i:17:VAL:CB	2.51	0.74
4:k:21:GLY:O	4:k:23:ARG:N	2.21	0.74
4:k:53:PHE:O	4:k:54:LEU:C	2.28	0.74
4:q:53:PHE:O	4:q:54:LEU:C	2.28	0.74
4:t:53:PHE:O	4:t:54:LEU:C	2.28	0.74
1:G:248:LEU:HD22	1:G:293:LEU:HD11	1.59	0.73
1:G:367:LEU:HB3	1:G:374:LEU:CD1	2.15	0.73
1:B:153:ILE:O	1:B:157:ARG:HB3	1.87	0.73
1:D:536:ASN:OD1	1:D:539:LEU:N	2.21	0.73
1:F:841:ASN:O	1:F:875:VAL:N	2.19	0.73
1:H:837:ALA:HA	4:m:54:LEU:HD22	1.66	0.73
1:I:528:ALA:O	1:I:532:MET:HE2	1.87	0.73
1:J:722:LEU:CD2	1:J:915:ASP:CG	2.60	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:1355:GLU:O	1:J:1362:LEU:N	2.21	0.73
2:Q:178:VAL:HG12	2:Q:180:TYR:CD1	2.23	0.73
2:Q:296:ARG:CG	2:Q:318:PRO:HA	2.17	0.73
3:S:302:LEU:HD12	3:S:302:LEU:N	2.03	0.73
2:T:160:ILE:HD13	2:T:206:VAL:HG13	1.69	0.73
3:b:279:PRO:HG2	3:b:282:PRO:HA	1.69	0.73
2:c:300:PHE:O	2:c:301:ASP:C	2.31	0.73
4:f:107:LYS:HG2	4:f:108:THR:H	1.51	0.73
4:m:9:PRO:CA	4:m:17:VAL:CB	2.66	0.73
1:B:841:ASN:OD1	4:h:26:VAL:HG22	1.87	0.73
1:H:269:THR:HB	1:H:298:THR:CB	2.18	0.73
1:H:714:LEU:HB2	1:H:722:LEU:HD11	1.69	0.73
1:H:841:ASN:OD1	4:m:26:VAL:HG22	1.88	0.73
1:I:839:LEU:O	1:I:875:VAL:HB	1.87	0.73
1:I:1278:THR:O	1:I:1282:ILE:HD12	1.87	0.73
1:J:234:LEU:HD11	1:J:244:ILE:HG21	1.70	0.73
1:J:844:VAL:CG1	4:o:68:HIS:CB	2.65	0.73
1:J:915:ASP:OD2	1:J:1030:LYS:NZ	2.21	0.73
1:J:1273:CYS:HB3	1:J:1277:PHE:HD2	1.47	0.73
1:K:831:ARG:N	1:K:954:TYR:O	2.19	0.73
1:L:556:VAL:HG21	1:L:565:PRO:CG	2.17	0.73
1:O:289:LEU:O	1:O:294:LYS:HG2	1.86	0.73
1:O:837:ALA:CB	4:s:54:LEU:HD21	2.18	0.73
1:O:840:GLN:NE2	4:s:58:ALA:CB	2.45	0.73
1:P:14:ALA:HA	1:P:17:MET:HG3	1.68	0.73
2:W:300:PHE:O	2:W:301:ASP:C	2.31	0.73
2:Z:300:PHE:O	2:Z:301:ASP:C	2.31	0.73
2:a:23:ALA:O	2:a:26:ARG:HG2	1.87	0.73
3:e:108:TYR:OH	3:e:110:LEU:CG	2.36	0.73
4:t:79:PHE:CB	4:t:88:LEU:HD11	2.18	0.73
1:G:563:VAL:HG12	1:G:564:PRO:HD2	1.69	0.73
1:A:1233:ASP:HB3	1:A:1236:ARG:O	1.88	0.73
1:B:759:GLY:HA3	1:B:779:ASN:O	1.88	0.73
1:C:120:MET:HA	1:M:38:PHE:O	1.88	0.73
1:C:532:MET:HE3	1:C:534:PRO:HG2	1.70	0.73
1:C:756:ILE:HD11	1:C:906:THR:HG21	1.66	0.73
1:F:889:PRO:CD	4:l:69:ALA:CB	2.64	0.73
1:H:1057:ARG:NH2	1:H:1319:GLU:OE2	2.20	0.73
1:K:1119:VAL:O	1:K:1119:VAL:HG12	1.87	0.73
1:M:29:VAL:HG12	1:M:30:ALA:N	2.04	0.73
1:M:378:GLU:OE2	1:M:380:LEU:CD2	2.36	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:1201:ARG:CG	1:M:1202:PRO:HD2	2.18	0.73
1:O:495:ALA:O	1:O:504:ARG:NH2	2.21	0.73
1:P:267:ALA:HB1	1:P:274:VAL:C	2.13	0.73
3:V:300:LEU:HD11	3:V:332:SER:HA	0.75	0.73
3:Y:143:LEU:O	3:Y:146:HIS:N	2.22	0.73
3:Y:251:LEU:CD2	3:Y:254:TRP:HZ3	2.00	0.73
3:b:295:ASP:N	3:b:295:ASP:OD1	2.20	0.73
3:e:120:CYS:CB	3:e:184:LEU:O	2.35	0.73
4:p:18:ARG:HA	4:p:56:GLY:HA3	1.67	0.73
4:q:21:GLY:O	4:q:23:ARG:O	2.06	0.73
1:A:35:LEU:H	1:A:35:LEU:CD1	2.01	0.73
1:B:70:PHE:O	1:B:73:LEU:HB2	1.89	0.73
1:C:467:MET:HE2	1:C:1033:PRO:CD	2.09	0.73
1:C:1347:ARG:O	1:C:1348:ASP:CG	2.31	0.73
1:H:305:THR:HG22	1:H:306:TYR:N	2.03	0.73
1:I:403:VAL:HG13	1:I:1331:ALA:CB	2.19	0.73
1:J:438:ARG:HB2	1:J:438:ARG:HH21	1.53	0.73
1:J:847:ILE:HG21	4:o:71:ASN:N	2.03	0.73
1:L:527:THR:HB	1:L:585:ALA:O	1.88	0.73
1:L:1354:ARG:HH22	1:L:1357:HIS:HD2	1.32	0.73
1:M:304:VAL:HG12	1:M:305:THR:N	2.03	0.73
1:N:416:PHE:CD2	1:O:433:ARG:NH1	2.56	0.73
1:N:834:ARG:HG2	4:s:94:LEU:CB	2.18	0.73
1:O:320:LEU:HD12	1:O:321:VAL:HG13	1.70	0.73
1:P:487:TYR:HE1	1:P:505:PHE:HZ	1.36	0.73
1:P:759:GLY:HA2	1:P:779:ASN:O	1.88	0.73
1:P:1210:ALA:HB3	1:P:1329:GLN:HE21	1.53	0.73
2:a:159:GLY:O	2:a:163:LEU:HB2	1.87	0.73
3:e:134:LEU:HD22	3:e:185:VAL:CG2	2.18	0.73
1:A:638:GLU:OE2	1:A:677:TYR:OH	2.05	0.73
1:A:1190:THR:HG22	1:A:1243:ASN:ND2	2.03	0.73
1:B:189:LEU:HD12	1:B:1064:LEU:HD13	1.70	0.73
1:B:945:LEU:O	1:B:946:ASP:HB3	1.87	0.73
1:C:114:GLN:NE2	1:M:43:ARG:NE	2.35	0.73
1:D:840:GLN:OE1	4:j:58:ALA:HA	1.89	0.73
1:F:1229:HIS:CD2	1:F:1241:THR:CG2	2.71	0.73
1:H:833:ASP:O	4:m:54:LEU:HD11	1.89	0.73
1:I:482:GLU:HA	1:I:569:GLY:H	0.61	0.73
1:K:530:GLN:HG3	1:K:536:ASN:ND2	2.00	0.73
1:K:1354:ARG:HH22	1:K:1357:HIS:HD2	1.36	0.73
1:L:834:ARG:HG2	4:f:94:LEU:CB	2.18	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:1077:GLN:NE2	3:Y:85:GLN:NE2	2.35	0.73
1:N:124:ILE:HG12	1:N:1100:VAL:CG2	2.19	0.73
1:N:1165:VAL:CG1	3:V:140:LEU:CD1	2.27	0.73
3:V:200:ALA:HB3	3:V:294:VAL:HG13	1.71	0.73
3:V:349:ARG:NH2	3:V:351:ARG:HH12	1.85	0.73
3:Y:121:GLN:OE1	3:Y:215:TYR:HA	1.89	0.73
4:r:7:HIS:CE1	4:r:44:HIS:NE2	2.28	0.73
1:B:534:PRO:HB2	1:C:1154:GLY:N	2.04	0.73
1:D:558:LEU:O	1:D:560:GLY:N	2.22	0.73
1:H:1181:GLN:HE21	1:H:1310:GLN:HA	1.54	0.73
1:I:86:GLU:HB2	1:I:89:TYR:CD2	2.15	0.73
1:I:509:TRP:CZ2	1:I:564:PRO:CD	2.71	0.73
1:I:874:THR:HG21	1:I:876:ASN:OD1	1.89	0.73
1:J:529:GLU:O	1:J:532:MET:HE3	1.87	0.73
1:J:533:GLN:CB	1:J:534:PRO:HD3	2.18	0.73
1:K:1119:VAL:O	1:K:1119:VAL:CG1	2.36	0.73
1:L:68:VAL:HG21	1:L:384:ILE:HG22	1.70	0.73
1:M:261:VAL:H	1:M:1068:ARG:HH22	1.35	0.73
1:M:1134:GLY:HA3	1:M:1263:LEU:HA	1.71	0.73
1:N:534:PRO:CG	1:N:1230:GLY:CA	2.67	0.73
1:P:920:THR:HG22	1:P:1138:LEU:HD23	1.71	0.73
3:S:279:PRO:HB3	3:S:284:SER:C	2.14	0.73
2:W:268:ARG:NH1	2:X:166:ASP:OD1	2.21	0.73
2:a:32:VAL:CB	2:a:34:LEU:HD23	2.18	0.73
2:a:35:PRO:CB	2:a:70:ARG:HH11	1.75	0.73
3:b:207:VAL:HA	3:b:447:VAL:HG11	1.70	0.73
3:e:279:PRO:HB3	3:e:284:SER:C	2.13	0.73
4:f:104:ARG:O	4:f:106:PRO:HD3	1.89	0.73
4:q:22:MET:HE2	4:q:60:ALA:HB3	1.52	0.73
4:r:53:PHE:O	4:r:54:LEU:C	2.28	0.73
4:s:7:HIS:CE1	4:s:44:HIS:HE1	1.94	0.73
1:B:493:ALA:HB1	1:B:755:ARG:HH21	1.53	0.73
1:B:780:ASP:OD2	1:B:782:ARG:NH1	2.22	0.73
1:C:415:ARG:HH22	1:C:590:ALA:HB1	1.52	0.73
1:C:775:ASP:HB3	1:C:778:ARG:HD2	1.70	0.73
1:D:822:ARG:NH2	1:D:1013:SER:O	2.21	0.73
1:F:591:PHE:HZ	1:F:1045:HIS:CD2	2.07	0.73
1:J:234:LEU:CD1	1:J:244:ILE:HG23	2.17	0.73
1:J:512:ARG:HH22	1:J:563:VAL:CG1	2.01	0.73
1:K:847:ILE:HG21	4:p:70:ASN:C	2.14	0.73
1:L:488:GLY:HA3	1:L:520:TRP:CH2	2.23	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:840:GLN:CD	4:q:58:ALA:CB	2.59	0.73
1:M:491:VAL:O	1:M:558:LEU:O	2.06	0.73
1:O:752:ARG:HD2	1:O:927:ARG:NE	2.02	0.73
1:O:756:ILE:CG2	1:O:760:GLY:O	2.36	0.73
1:P:541:LEU:HD21	1:P:571:ILE:HD11	1.71	0.73
2:R:41:LEU:HD12	2:R:42:ALA:H	1.51	0.73
2:R:230:LEU:HB3	2:R:237:VAL:HG11	1.71	0.73
3:V:427:VAL:HG12	3:V:428:MET:N	2.04	0.73
2:Z:223:LEU:HD13	2:Z:271:LEU:CG	2.18	0.73
2:a:230:LEU:HB3	2:a:237:VAL:HG11	1.71	0.73
4:l:7:HIS:CE1	4:l:44:HIS:HE1	1.94	0.73
1:A:381:GLU:HA	1:A:385:TYR:HB2	1.70	0.73
1:B:847:ILE:HG21	4:h:70:ASN:C	2.14	0.73
1:C:1059:VAL:HG23	1:C:1119:VAL:CG2	2.18	0.73
1:H:443:TRP:CZ2	1:H:1347:ARG:HD2	2.22	0.73
1:I:520:TRP:CD1	1:I:520:TRP:H	2.06	0.73
1:J:77:VAL:HG12	1:J:277:VAL:HG13	1.71	0.73
1:J:1206:ARG:HH21	1:J:1247:SER:HA	0.58	0.73
1:J:1346:ALA:HB2	1:J:1353:ALA:HB2	1.69	0.73
1:P:216:ARG:NH2	1:P:1287:ARG:O	2.22	0.73
3:S:143:LEU:C	3:S:143:LEU:HD13	2.14	0.73
3:S:198:TYR:OH	3:S:294:VAL:HG11	1.89	0.73
3:S:287:THR:CG2	3:S:289:PRO:CD	2.33	0.73
3:V:251:LEU:CD2	3:V:254:TRP:HZ3	2.00	0.73
3:Y:33:LEU:C	3:Y:36:VAL:HG22	2.13	0.73
2:Z:293:PRO:CG	2:Z:318:PRO:HB3	2.11	0.73
1:G:1165:VAL:CG2	2:R:240:LEU:HA	2.18	0.73
1:A:465:SER:HA	1:A:468:ASN:HD22	1.54	0.73
1:B:232:PHE:H	1:B:1112:THR:HG23	1.54	0.73
1:D:297:ASP:O	1:D:298:THR:CG2	2.36	0.73
1:D:534:PRO:CB	1:E:1154:GLY:N	2.50	0.73
1:D:638:GLU:OE2	1:D:677:TYR:OH	2.06	0.73
1:H:264:LEU:CD2	1:H:266:HIS:HB3	2.18	0.73
1:J:265:THR:H	1:J:304:VAL:HG11	1.52	0.73
1:K:802:PRO:O	1:K:803:ALA:HB3	1.88	0.73
1:K:842:MET:CE	4:p:61:LEU:HD13	2.18	0.73
1:L:82:THR:HA	1:L:307:GLY:O	1.89	0.73
1:L:404:LEU:HB3	1:L:440:LEU:HD21	1.71	0.73
1:M:349:GLU:O	1:M:350:THR:CB	2.37	0.73
3:S:108:TYR:OH	3:S:110:LEU:CG	2.36	0.73
3:S:287:THR:HG21	3:S:451:ILE:HG12	1.71	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:S:427:VAL:HG12	3:S:428:MET:N	2.04	0.73
3:V:29:GLY:O	3:V:32:PRO:CB	2.37	0.73
3:V:339:LEU:HD23	3:V:422:PHE:CZ	2.23	0.73
2:W:296:ARG:CG	2:W:318:PRO:HA	2.17	0.73
3:b:131:LEU:HA	3:b:186:SER:HA	1.71	0.73
2:d:108:LEU:HB3	2:d:297:VAL:HG21	1.68	0.73
3:e:339:LEU:HD23	3:e:422:PHE:CZ	2.23	0.73
4:f:10:SER:H	4:f:17:VAL:CB	2.02	0.73
1:G:841:ASN:O	1:G:874:THR:OG1	2.07	0.73
1:G:1120:THR:HG22	1:G:1122:MET:H	1.53	0.73
1:G:1286:HIS:HE1	1:G:1295:GLU:HB2	1.54	0.73
1:C:114:GLN:HE21	1:M:43:ARG:CG	2.01	0.73
1:C:216:ARG:NH2	1:C:1287:ARG:O	2.20	0.73
1:C:417:ALA:HB2	1:C:1358:PHE:HE1	1.48	0.73
1:H:280:THR:CG2	1:H:1063:VAL:HG12	2.13	0.73
1:I:1329:GLN:C	1:I:1330:GLU:HG3	2.14	0.73
1:J:419:HIS:ND1	1:J:421:GLY:O	2.16	0.73
1:J:485:ASN:ND2	1:J:516:GLY:C	2.47	0.73
1:J:542:GLU:OE2	1:J:1245:TRP:NE1	2.18	0.73
1:K:840:GLN:CD	4:p:58:ALA:CA	2.62	0.73
1:K:846:GLU:OE2	4:p:67:THR:OG1	2.07	0.73
1:L:841:ASN:OD1	4:q:26:VAL:HG22	1.88	0.73
1:O:289:LEU:HD11	1:O:296:GLU:HB3	1.69	0.73
2:T:182:ASN:HB2	3:V:136:HIS:CE1	2.23	0.73
2:T:295:VAL:CG1	2:T:315:ILE:O	2.37	0.73
3:Y:300:LEU:HD21	3:Y:332:SER:CB	2.16	0.73
2:c:37:ILE:CD1	2:d:298:CYS:SG	2.75	0.73
2:c:182:ASN:HA	3:e:138:THR:HG23	1.70	0.73
4:n:7:HIS:CE1	4:n:44:HIS:HE1	1.94	0.73
1:G:348:ARG:HE	1:A:337:LEU:HD21	1.54	0.72
1:G:758:ALA:HB3	1:G:781:GLY:HA2	1.70	0.72
1:D:889:PRO:CD	4:j:69:ALA:HB1	2.16	0.72
1:H:272:ARG:CD	1:H:374:LEU:CD1	2.66	0.72
1:H:1129:PHE:HD1	1:H:1264:ASN:HD21	1.35	0.72
1:I:752:ARG:CD	1:I:927:ARG:NE	2.50	0.72
1:J:184:MET:O	1:J:188:LEU:N	2.19	0.72
1:J:297:ASP:C	1:J:298:THR:HG1	1.96	0.72
1:J:575:TRP:CZ2	1:J:1032:SER:HB3	2.23	0.72
1:M:1299:ALA:O	1:M:1320:LEU:HA	1.89	0.72
1:N:756:ILE:CD1	1:N:783:LEU:HD11	2.19	0.72
1:N:847:ILE:HG21	4:r:71:ASN:HA	1.71	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:1152:VAL:CG1	1:O:1159:PRO:HD2	2.19	0.72
2:a:68:ARG:CD	3:b:337:ARG:CG	2.64	0.72
4:j:9:PRO:CB	4:j:17:VAL:CB	2.66	0.72
1:G:469:ILE:C	1:G:469:ILE:HD12	2.14	0.72
1:A:417:ALA:HB2	1:A:1358:PHE:HE1	1.52	0.72
1:B:1080:VAL:CA	1:B:1092:THR:O	2.38	0.72
1:C:302:VAL:HG13	1:C:361:THR:O	1.88	0.72
1:D:94:ARG:CZ	1:I:9:PRO:CG	2.65	0.72
1:E:9:PRO:CD	1:H:94:ARG:NH2	2.52	0.72
1:E:960:VAL:HA	1:E:994:LEU:HD13	1.71	0.72
1:F:216:ARG:NH2	1:F:1287:ARG:O	2.20	0.72
1:H:84:PHE:CD1	1:H:309:MET:SD	2.83	0.72
1:I:397:ALA:HB3	1:I:1321:VAL:CG2	2.19	0.72
1:I:752:ARG:HD2	1:I:927:ARG:NH2	2.04	0.72
1:J:416:PHE:O	1:J:1358:PHE:N	2.16	0.72
1:J:437:PRO:CB	1:J:1360:GLN:OE1	2.36	0.72
1:J:714:LEU:HB2	1:J:722:LEU:HD11	1.70	0.72
1:K:299:GLU:OE2	1:K:364:ARG:NE	2.22	0.72
1:K:493:ALA:HB2	1:K:755:ARG:HH11	1.53	0.72
1:L:840:GLN:OE1	4:q:58:ALA:CB	2.36	0.72
1:N:1204:ASN:OD1	1:N:1206:ARG:HG2	1.88	0.72
1:P:404:LEU:HB3	1:P:440:LEU:HD21	1.70	0.72
3:V:121:GLN:OE1	3:V:215:TYR:HA	1.89	0.72
2:X:161:ARG:NE	2:X:173:LEU:HD23	2.03	0.72
2:X:230:LEU:HB3	2:X:237:VAL:HG11	1.71	0.72
3:Y:317:ARG:O	3:Y:323:GLU:CA	2.37	0.72
2:a:28:GLU:O	2:a:101:ARG:CD	2.36	0.72
2:a:32:VAL:HG13	2:a:46:VAL:HG13	1.71	0.72
3:b:290:ALA:HB3	3:b:296:LEU:HD23	1.71	0.72
3:e:118:ASP:O	3:e:119:LEU:HB2	1.89	0.72
1:B:252:THR:HG21	1:B:373:ARG:CD	2.18	0.72
1:B:558:LEU:O	1:B:560:GLY:N	2.21	0.72
1:C:1131:LEU:HD11	1:C:1157:LEU:HB3	1.72	0.72
1:D:265:THR:O	1:D:267:ALA:N	2.22	0.72
1:F:707:PHE:HA	1:F:1042:THR:HG21	1.71	0.72
1:H:1241:THR:CG2	1:H:1247:SER:OG	2.35	0.72
1:I:486:PRO:HG3	1:I:509:TRP:CH2	2.20	0.72
1:J:84:PHE:CE2	1:J:90:MET:CE	2.72	0.72
1:J:403:VAL:C	1:J:404:LEU:HD12	2.14	0.72
1:P:1152:VAL:HG13	1:P:1159:PRO:HD2	1.71	0.72
2:a:161:ARG:CD	2:a:173:LEU:CB	2.67	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:g:1:MET:N	4:g:5:GLN:CB	2.53	0.72
4:l:92:PHE:HA	4:l:102:VAL:CB	2.18	0.72
4:m:1:MET:N	4:m:5:GLN:CB	2.53	0.72
4:q:1:MET:N	4:q:5:GLN:CB	2.53	0.72
1:E:842:MET:HE3	4:k:61:LEU:CG	2.18	0.72
1:F:532:MET:CG	1:F:534:PRO:HD2	2.19	0.72
1:H:84:PHE:HD1	1:H:309:MET:HG3	1.53	0.72
1:I:101:GLN:OE1	1:I:116:VAL:CG2	2.37	0.72
1:I:224:LYS:CE	1:I:1330:GLU:OE1	2.35	0.72
1:J:1133:ARG:HG3	1:J:1133:ARG:O	1.88	0.72
1:L:78:ALA:HB2	1:L:277:VAL:HG21	1.70	0.72
1:N:255:THR:CG2	1:N:1109:VAL:HG13	2.18	0.72
1:N:1161:GLN:HB2	1:N:1162:PRO:CD	2.18	0.72
1:N:1210:ALA:HB3	1:N:1329:GLN:NE2	2.05	0.72
2:Q:160:ILE:HG23	2:R:223:LEU:HD21	1.70	0.72
3:V:278:HIS:C	3:V:285:ALA:HA	2.13	0.72
2:a:43:LEU:HD12	2:a:43:LEU:O	1.87	0.72
2:d:161:ARG:NH1	2:d:174:PRO:HD2	2.04	0.72
4:f:1:MET:N	4:f:5:GLN:CB	2.53	0.72
1:G:368:VAL:HG23	1:G:375:VAL:HG11	1.70	0.72
1:A:194:PRO:CG	1:A:197:LEU:HD12	2.20	0.72
1:B:534:PRO:HB2	1:C:1154:GLY:CA	2.18	0.72
1:C:419:HIS:HD2	1:D:421:GLY:O	1.72	0.72
1:C:1229:HIS:CD2	1:C:1241:THR:CG2	2.72	0.72
1:F:624:PRO:HB3	1:F:882:GLY:HA3	1.70	0.72
1:H:532:MET:CE	1:H:534:PRO:HG3	2.19	0.72
1:H:1132:GLY:CA	1:H:1266:ALA:HB3	2.18	0.72
1:I:776:PHE:HA	1:I:903:GLU:HB2	1.70	0.72
1:K:486:PRO:HG2	1:K:564:PRO:HG3	1.69	0.72
1:M:881:ASN:O	1:M:883:ARG:NH1	2.22	0.72
1:N:534:PRO:HG3	1:N:1230:GLY:HA2	1.69	0.72
1:O:198:LEU:HD12	1:O:1109:VAL:CG2	2.19	0.72
1:O:439:GLN:HE22	1:O:451:ARG:HH21	0.73	0.72
3:S:317:ARG:O	3:S:323:GLU:CA	2.37	0.72
2:T:182:ASN:CB	3:V:136:HIS:CE1	2.73	0.72
2:W:295:VAL:CG1	2:W:315:ILE:O	2.37	0.72
3:Y:88:ASP:O	3:Y:91:LEU:HB2	1.88	0.72
2:a:88:VAL:HG13	2:a:295:VAL:HG23	1.72	0.72
3:b:112:ARG:HB3	3:b:112:ARG:NH2	2.04	0.72
2:d:230:LEU:HB3	2:d:237:VAL:HG11	1.71	0.72
3:e:287:THR:HG21	3:e:451:ILE:HG12	1.71	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:k:1:MET:N	4:k:5:GLN:CB	2.53	0.72
4:s:1:MET:N	4:s:5:GLN:CB	2.53	0.72
1:G:505:PHE:CE1	1:G:992:PRO:HD2	2.25	0.72
1:G:562:GLU:HG2	1:G:563:VAL:N	2.04	0.72
1:G:1152:VAL:HG13	1:G:1158:GLY:HA3	1.71	0.72
1:A:263:ARG:O	1:A:263:ARG:HG2	1.88	0.72
1:A:917:GLY:O	1:A:1033:PRO:CD	2.35	0.72
1:D:93:GLY:HA3	1:D:124:ILE:CD1	2.20	0.72
1:D:272:ARG:NH1	1:D:374:LEU:HB2	2.05	0.72
1:E:27:ILE:HD11	1:H:1104:VAL:HG13	1.70	0.72
1:F:443:TRP:CZ2	1:F:1347:ARG:HD3	2.24	0.72
1:H:879:PHE:O	1:H:882:GLY:O	2.06	0.72
1:I:399:ASP:HB2	1:I:1321:VAL:HG11	1.70	0.72
1:J:595:ARG:NH1	1:J:1026:ALA:HB1	2.04	0.72
1:J:1206:ARG:CD	1:J:1247:SER:HA	2.20	0.72
1:K:142:LEU:HB3	1:K:158:GLN:HA	1.70	0.72
1:K:534:PRO:CB	1:L:1154:GLY:HA3	2.18	0.72
1:M:29:VAL:O	1:M:30:ALA:CB	2.35	0.72
1:O:586:LEU:HD23	1:O:1245:TRP:CZ2	2.25	0.72
2:Q:296:ARG:HD2	2:Q:318:PRO:O	1.86	0.72
3:V:331:LYS:HZ2	3:V:434:ARG:HD2	1.54	0.72
2:a:88:VAL:HG13	2:a:295:VAL:CG2	2.18	0.72
3:e:279:PRO:HB3	3:e:285:ALA:N	2.04	0.72
3:e:306:GLY:O	3:e:431:ASP:HB3	1.90	0.72
4:g:46:THR:CG2	4:g:50:VAL:HG13	2.11	0.72
4:j:1:MET:N	4:j:5:GLN:CB	2.53	0.72
1:A:892:LEU:CG	4:g:65:GLY:HA2	2.19	0.72
1:B:340:GLN:NE2	1:C:152:GLY:O	2.22	0.72
1:C:124:ILE:HA	1:C:1100:VAL:HG22	1.72	0.72
1:D:744:ARG:HH12	1:D:803:ALA:HA	1.53	0.72
1:H:844:VAL:HG12	4:m:68:HIS:CB	2.20	0.72
1:I:544:HIS:CD2	1:I:546:ALA:H	2.04	0.72
1:K:446:ASP:O	1:K:448:GLN:N	2.21	0.72
1:N:308:GLU:HG3	1:N:309:MET:N	2.04	0.72
1:O:740:ASP:CA	1:O:785:HIS:HE1	2.03	0.72
1:O:1215:ALA:HB1	1:O:1221:ASP:OD2	1.90	0.72
1:P:445:LYS:CD	1:P:1118:PRO:HG2	2.19	0.72
1:P:453:SER:O	1:P:456:ASN:HB3	1.89	0.72
3:V:302:LEU:HD23	3:V:302:LEU:N	2.02	0.72
3:Y:447:VAL:CG1	3:Y:448:PRO:HD2	2.20	0.72
2:a:160:ILE:N	2:a:160:ILE:HD13	2.04	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:b:189:PHE:CA	3:b:211:ILE:HD13	2.02	0.72
3:b:197:ALA:CB	3:b:324:LEU:CD1	2.68	0.72
3:e:427:VAL:HG12	3:e:428:MET:N	2.04	0.72
4:l:1:MET:N	4:l:5:GLN:CB	2.53	0.72
4:o:1:MET:N	4:o:5:GLN:CB	2.53	0.72
4:r:1:MET:N	4:r:5:GLN:CB	2.53	0.72
4:t:1:MET:N	4:t:5:GLN:CB	2.53	0.72
1:G:294:LYS:HD2	1:G:295:VAL:N	2.04	0.72
1:G:532:MET:CE	1:G:534:PRO:CG	2.57	0.72
1:A:208:GLY:O	1:A:209:ARG:CB	2.38	0.72
1:D:365:ALA:CB	1:D:376:PHE:HE1	2.02	0.72
1:E:527:THR:HG21	1:E:1193:ALA:HB3	1.70	0.72
1:F:1221:ASP:O	1:F:1225:LEU:N	2.22	0.72
1:J:486:PRO:O	1:J:509:TRP:HZ3	1.73	0.72
1:J:1206:ARG:HH21	1:J:1247:SER:C	1.96	0.72
2:Q:295:VAL:CG1	2:Q:315:ILE:O	2.37	0.72
2:T:227:LEU:HD13	2:T:228:LEU:H	1.53	0.72
3:Y:300:LEU:CG	3:Y:332:SER:HA	2.20	0.72
2:a:92:LEU:HB3	2:a:98:VAL:HG12	1.70	0.72
2:c:295:VAL:CG1	2:c:315:ILE:O	2.37	0.72
4:g:23:ARG:C	4:g:25:LEU:H	1.98	0.72
4:m:9:PRO:HB3	4:m:18:ARG:CA	2.18	0.72
4:n:9:PRO:C	4:n:17:VAL:CB	2.63	0.72
4:n:30:ASN:HD21	4:o:107:LYS:NZ	1.82	0.72
1:A:534:PRO:HB3	1:B:1154:GLY:C	2.15	0.72
1:B:137:THR:O	1:B:140:ILE:N	2.23	0.72
1:C:532:MET:C	1:C:534:PRO:CD	2.55	0.72
1:H:1097:ARG:HG2	1:H:1097:ARG:NH1	2.04	0.72
1:I:404:LEU:HB2	1:I:1052:VAL:HB	1.71	0.72
1:J:73:LEU:HD12	1:J:74:GLY:H	1.55	0.72
1:K:559:PRO:CA	1:K:755:ARG:NH1	2.25	0.72
1:K:1201:ARG:HH11	1:L:448:GLN:NE2	1.87	0.72
1:L:841:ASN:HB2	4:q:57:GLN:HE22	1.53	0.72
1:M:520:TRP:HH2	1:M:988:PRO:HD2	1.54	0.72
1:N:296:GLU:O	1:N:297:ASP:CB	2.25	0.72
1:O:841:ASN:CG	4:s:57:GLN:NE2	2.48	0.72
2:Q:37:ILE:CD1	2:R:298:CYS:SG	2.76	0.72
2:U:236:TYR:C	2:U:238:ASN:H	1.97	0.72
3:V:447:VAL:O	3:V:448:PRO:C	2.31	0.72
2:Z:223:LEU:CD1	2:Z:271:LEU:CG	2.67	0.72
2:c:227:LEU:HD13	2:c:228:LEU:H	1.53	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:e:112:ARG:HH21	3:e:112:ARG:HG2	1.55	0.72
4:f:9:PRO:CB	4:f:17:VAL:CB	2.67	0.72
4:i:1:MET:N	4:i:5:GLN:CB	2.53	0.72
4:j:7:HIS:CE1	4:j:44:HIS:NE2	2.28	0.72
4:k:44:HIS:CD2	4:k:50:VAL:HG13	2.25	0.72
4:t:44:HIS:CD2	4:t:50:VAL:HG13	2.25	0.72
1:G:75:LEU:CD1	1:G:184:MET:HG2	2.19	0.72
1:G:1218:LYS:CG	1:G:1221:ASP:OD2	2.31	0.72
1:A:77:VAL:CG2	1:A:376:PHE:CD2	2.73	0.72
1:A:358:PRO:C	1:A:359:GLN:CD	2.56	0.72
1:B:904:ARG:HH12	1:B:906:THR:HG23	1.55	0.72
1:I:301:ASP:HB3	1:I:367:LEU:HD11	1.71	0.72
1:I:1104:VAL:CG1	1:L:27:ILE:CD1	2.66	0.72
1:J:79:CYS:HA	1:J:1071:GLU:O	1.89	0.72
1:J:788:GLN:H	1:J:788:GLN:CD	1.98	0.72
1:K:410:ASN:O	1:K:415:ARG:NH2	2.22	0.72
1:L:892:LEU:HD21	4:q:65:GLY:HA2	1.72	0.72
1:M:47:ASN:ND2	3:Y:276:THR:CB	2.44	0.72
1:M:1229:HIS:NE2	1:M:1241:THR:HG21	2.03	0.72
1:N:403:VAL:CG2	1:N:1331:ALA:CB	2.68	0.72
1:O:300:ALA:O	1:O:301:ASP:HB3	1.90	0.72
2:R:264:ASP:O	3:S:150:PRO:CG	2.37	0.72
2:T:306:VAL:HG11	2:T:312:ALA:HB2	1.72	0.72
3:V:311:TYR:CA	3:V:423:ALA:O	2.37	0.72
3:V:437:HIS:CB	3:V:449:VAL:HG12	2.19	0.72
3:Y:143:LEU:O	3:Y:144:ALA:C	2.32	0.72
2:a:29:GLY:CA	2:a:101:ARG:CB	2.60	0.72
3:e:311:TYR:CA	3:e:423:ALA:O	2.37	0.72
4:i:44:HIS:CD2	4:i:50:VAL:HG13	2.25	0.72
4:j:44:HIS:CD2	4:j:50:VAL:HG13	2.25	0.72
4:p:53:PHE:O	4:p:54:LEU:C	2.28	0.72
1:A:1276:PHE:CD1	1:A:1329:GLN:CD	2.67	0.71
1:B:136:ALA:CB	1:B:1088:GLY:HA2	2.20	0.71
1:B:1225:LEU:HD23	1:C:1176:GLY:HA3	1.71	0.71
1:F:1008:GLN:HE22	1:F:1011:ARG:HH11	1.38	0.71
1:I:1344:ARG:HG2	1:I:1347:ARG:NH2	2.03	0.71
1:J:512:ARG:NH2	1:J:563:VAL:HG13	2.03	0.71
1:L:476:VAL:HG13	1:L:571:ILE:CD1	2.06	0.71
1:M:756:ILE:HG21	1:M:763:PRO:HB3	1.71	0.71
1:M:1115:VAL:HG11	1:M:1374:LEU:CD2	2.17	0.71
1:O:439:GLN:HE21	1:O:451:ARG:NH2	1.83	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:624:PRO:HB3	1:P:882:GLY:HA3	1.71	0.71
2:R:129:ARG:NE	2:R:136:THR:CG2	2.53	0.71
3:S:112:ARG:HG2	3:S:112:ARG:HH21	1.55	0.71
2:U:17:SER:O	2:U:18:ARG:C	2.30	0.71
3:Y:427:VAL:HG12	3:Y:428:MET:N	2.04	0.71
4:s:14:ALA:O	4:s:29:THR:HG23	1.90	0.71
4:s:17:VAL:N	4:s:20:LEU:CD1	2.46	0.71
4:t:23:ARG:C	4:t:25:LEU:H	1.98	0.71
1:G:22:SER:HA	1:G:67:LEU:HD23	1.70	0.71
1:G:765:TYR:HE1	1:G:783:LEU:HD13	1.55	0.71
1:A:1276:PHE:CD1	1:A:1329:GLN:HG3	2.24	0.71
1:B:96:GLN:CB	1:B:121:THR:HG22	2.18	0.71
1:C:708:THR:HG23	1:C:1038:HIS:HD2	1.55	0.71
1:C:1246:ALA:HB1	1:C:1277:PHE:CZ	2.25	0.71
1:H:280:THR:HG23	1:H:1063:VAL:CG1	2.15	0.71
1:I:487:TYR:OH	1:I:989:LEU:HA	1.89	0.71
1:I:586:LEU:CD2	1:I:1245:TRP:CZ2	2.73	0.71
1:J:75:LEU:O	1:J:77:VAL:O	2.08	0.71
1:J:1052:VAL:HG13	1:J:1185:CYS:HB3	1.72	0.71
1:N:730:ALA:O	1:N:745:HIS:ND1	2.21	0.71
1:N:1085:THR:HG22	1:N:1086:GLY:N	2.05	0.71
1:O:1161:GLN:HB2	1:O:1162:PRO:CD	2.19	0.71
3:V:317:ARG:O	3:V:323:GLU:CA	2.37	0.71
3:V:437:HIS:HB2	3:V:449:VAL:CG1	2.19	0.71
3:Y:434:ARG:HH12	3:Y:436:LEU:HG	1.53	0.71
3:e:39:PRO:HB2	3:e:40:PRO:CA	2.20	0.71
3:e:288:ILE:HG21	3:e:457:TRP:HH2	1.50	0.71
4:r:23:ARG:C	4:r:25:LEU:H	1.98	0.71
4:s:16:ASN:C	4:s:20:LEU:CD1	2.60	0.71
1:G:409:PHE:CD2	1:G:591:PHE:HB2	2.25	0.71
1:A:837:ALA:CB	4:h:94:LEU:O	2.37	0.71
1:D:918:ALA:HA	1:D:1033:PRO:CD	2.20	0.71
1:I:833:ASP:O	4:n:54:LEU:HD11	1.91	0.71
1:J:452:LEU:HD23	1:J:456:ASN:HD21	1.50	0.71
1:J:512:ARG:NH1	1:J:563:VAL:CG1	2.54	0.71
1:J:531:PHE:CZ	1:J:1242:ALA:O	2.43	0.71
1:K:99:VAL:HG13	1:K:120:MET:CE	2.20	0.71
1:K:919:ASN:HD22	1:K:1139:LEU:HD12	1.55	0.71
1:L:867:PRO:HB3	4:f:80:ALA:CB	2.19	0.71
1:M:1225:LEU:HD21	1:M:1234:PRO:CG	2.18	0.71
1:O:530:GLN:CA	1:O:536:ASN:HD21	1.98	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:160:ILE:HD11	2:Q:210:VAL:HG23	1.71	0.71
3:S:120:CYS:O	3:S:215:TYR:HD2	1.73	0.71
3:S:121:GLN:OE1	3:S:215:TYR:HA	1.89	0.71
3:S:251:LEU:CD2	3:S:254:TRP:HZ3	2.00	0.71
2:W:306:VAL:HG11	2:W:312:ALA:HB2	1.72	0.71
2:Z:160:ILE:HD11	2:Z:210:VAL:CG2	2.20	0.71
2:c:306:VAL:HG11	2:c:312:ALA:HB2	1.72	0.71
3:e:79:THR:O	3:e:83:THR:HG23	1.90	0.71
4:l:44:HIS:CD2	4:l:50:VAL:HG13	2.25	0.71
4:p:23:ARG:C	4:p:25:LEU:H	1.98	0.71
4:q:23:ARG:C	4:q:25:LEU:H	1.98	0.71
4:s:44:HIS:CD2	4:s:50:VAL:HG13	2.25	0.71
1:A:404:LEU:HB3	1:A:440:LEU:HD21	1.72	0.71
1:B:889:PRO:CD	4:h:69:ALA:HB1	2.12	0.71
1:D:196:ALA:HB1	1:D:227:PHE:HA	1.71	0.71
1:H:847:ILE:CG2	4:m:71:ASN:HA	2.17	0.71
1:I:285:LYS:HG3	1:I:377:LEU:HD21	1.72	0.71
1:J:73:LEU:HG	1:J:75:LEU:H	1.55	0.71
1:J:1206:ARG:NH2	1:J:1247:SER:C	2.48	0.71
1:K:102:PRO:HD2	1:L:387:ALA:HB3	1.71	0.71
1:K:1201:ARG:HH11	1:L:448:GLN:HB2	1.54	0.71
1:L:1166:PHE:CB	3:Y:140:LEU:HD11	2.15	0.71
1:N:433:ARG:NH2	1:N:1339:ASP:OD1	2.22	0.71
1:P:752:ARG:HE	1:P:913:ALA:HB2	1.52	0.71
1:P:1095:GLN:NE2	1:P:1097:ARG:HE	1.88	0.71
2:T:180:TYR:CD2	2:T:185:ARG:HA	2.26	0.71
2:W:268:ARG:HD3	2:X:166:ASP:OD1	1.86	0.71
2:Z:219:LEU:HD23	2:Z:219:LEU:C	2.15	0.71
2:a:236:TYR:C	2:a:238:ASN:H	1.98	0.71
4:g:53:PHE:O	4:g:54:LEU:C	2.28	0.71
4:h:1:MET:N	4:h:5:GLN:CB	2.53	0.71
4:m:46:THR:CG2	4:m:50:VAL:HG13	2.11	0.71
4:n:1:MET:N	4:n:5:GLN:CB	2.53	0.71
4:p:1:MET:N	4:p:5:GLN:CB	2.53	0.71
4:s:53:PHE:O	4:s:54:LEU:C	2.28	0.71
1:G:404:LEU:HB2	1:G:1052:VAL:HB	1.71	0.71
1:G:1211:GLY:HA2	1:G:1329:GLN:HG2	1.71	0.71
1:A:322:MET:HA	1:A:326:VAL:HG11	1.72	0.71
1:C:467:MET:HE2	1:C:1032:SER:HA	1.72	0.71
1:C:1246:ALA:HB1	1:C:1277:PHE:HZ	1.54	0.71
1:D:1216:GLY:O	1:D:1217:ASP:CB	2.34	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:124:ILE:HD13	1:E:1100:VAL:HG23	1.72	0.71
1:E:1344:ARG:HA	1:E:1347:ARG:HD2	1.73	0.71
1:H:454:MET:CE	1:H:1046:PRO:HD2	2.13	0.71
1:I:1329:GLN:O	1:I:1330:GLU:HG3	1.90	0.71
1:J:375:VAL:HG22	1:J:1065:PHE:HE1	1.55	0.71
1:J:1207:GLY:O	1:J:1208:ARG:HB2	1.89	0.71
1:J:1272:PRO:O	1:J:1276:PHE:CD1	2.44	0.71
1:K:421:GLY:O	1:P:419:HIS:HD2	1.69	0.71
1:L:730:ALA:HB2	1:L:750:ARG:HH12	1.54	0.71
1:M:408:LEU:HD12	1:M:1194:THR:OG1	1.90	0.71
1:O:555:ASP:N	1:O:555:ASP:OD1	2.22	0.71
1:O:1256:LEU:HA	1:O:1263:LEU:HD22	1.70	0.71
1:P:788:GLN:CD	1:P:788:GLN:H	1.99	0.71
3:Y:287:THR:HG21	3:Y:451:ILE:HG12	1.71	0.71
2:d:17:SER:OG	2:d:132:SER:OG	2.06	0.71
4:g:22:MET:CE	4:g:57:GLN:O	2.39	0.71
4:m:23:ARG:C	4:m:25:LEU:H	1.98	0.71
1:G:606:MET:HE1	1:G:820:PHE:CZ	2.26	0.71
1:G:764:VAL:O	1:G:782:ARG:HA	1.91	0.71
1:B:140:ILE:HD13	1:B:1089:VAL:HG13	1.71	0.71
1:D:55:ASP:OD1	1:D:55:ASP:N	2.23	0.71
1:D:1288:CYS:SG	1:I:34:ARG:HD2	2.31	0.71
1:E:77:VAL:CA	1:E:266:HIS:CE1	2.73	0.71
1:F:237:ALA:HB2	1:F:240:ARG:HH22	1.55	0.71
1:H:536:ASN:O	1:H:539:LEU:N	2.22	0.71
1:K:1218:LYS:HE3	1:L:1173:ARG:HH22	0.89	0.71
1:P:752:ARG:HH11	1:P:913:ALA:HB2	1.20	0.71
1:P:1095:GLN:NE2	1:P:1097:ARG:NH2	2.36	0.71
3:S:287:THR:O	3:S:289:PRO:HD2	1.90	0.71
3:V:112:ARG:HH21	3:V:112:ARG:HG2	1.55	0.71
3:V:287:THR:HG21	3:V:451:ILE:HG12	1.71	0.71
3:Y:436:LEU:HA	3:Y:450:VAL:CG2	2.15	0.71
2:a:34:LEU:HD12	2:a:37:ILE:HA	1.73	0.71
2:a:129:ARG:HD3	2:a:136:THR:OG1	1.90	0.71
3:b:319:CYS:CA	3:b:323:GLU:HG3	2.20	0.71
3:e:300:LEU:HD12	3:e:333:GLN:OE1	1.90	0.71
4:f:44:HIS:CD2	4:f:50:VAL:HG13	2.25	0.71
4:i:22:MET:CE	4:i:57:GLN:O	2.39	0.71
4:l:22:MET:CE	4:l:57:GLN:O	2.39	0.71
4:p:18:ARG:HA	4:p:56:GLY:HA2	1.71	0.71
4:q:9:PRO:C	4:q:17:VAL:CB	2.63	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:q:22:MET:CE	4:q:57:GLN:O	2.39	0.71
1:A:55:ASP:O	1:F:324:LYS:CB	2.38	0.71
1:A:530:GLN:CB	1:A:536:ASN:ND2	2.53	0.71
1:C:108:GLY:O	2:X:40:GLN:CD	2.34	0.71
1:D:842:MET:CE	4:j:61:LEU:HD11	2.14	0.71
1:E:841:ASN:OD1	4:k:26:VAL:HG22	1.91	0.71
1:F:423:LEU:CD1	1:F:433:ARG:HH22	2.04	0.71
1:F:580:GLY:HA2	1:F:592:ARG:HH12	1.55	0.71
1:F:784:LEU:HD22	1:F:786:ASN:OD1	1.91	0.71
1:I:404:LEU:HD11	1:I:1334:ILE:HD11	1.70	0.71
1:L:486:PRO:O	1:L:509:TRP:CH2	2.43	0.71
1:M:840:GLN:OE1	4:f:58:ALA:CB	2.39	0.71
1:O:837:ALA:HB1	4:t:94:LEU:O	1.91	0.71
1:P:135:LEU:HD13	1:P:140:ILE:HG22	1.72	0.71
1:P:397:ALA:HB1	1:P:1057:ARG:HD2	1.72	0.71
1:P:840:GLN:OE1	4:t:58:ALA:CB	2.38	0.71
3:V:112:ARG:CZ	3:V:262:SER:HB2	2.19	0.71
3:Y:438:ARG:CB	3:Y:448:PRO:HA	2.20	0.71
2:Z:147:LEU:HD13	2:Z:181:TYR:CD2	2.26	0.71
4:f:23:ARG:C	4:f:25:LEU:H	1.98	0.71
4:j:22:MET:CE	4:j:57:GLN:O	2.39	0.71
4:l:23:ARG:C	4:l:25:LEU:H	1.98	0.71
4:o:21:GLY:C	4:o:23:ARG:N	2.48	0.71
4:r:44:HIS:CD2	4:r:50:VAL:HG13	2.25	0.71
1:A:269:THR:CG2	1:A:300:ALA:HB2	2.21	0.71
1:A:527:THR:HG21	1:A:1193:ALA:CB	2.19	0.71
1:I:1165:VAL:CG1	2:X:240:LEU:HA	2.20	0.71
1:J:81:CYS:HA	1:J:1073:TYR:O	1.91	0.71
1:J:274:VAL:HG11	1:J:376:PHE:CE2	2.25	0.71
1:J:759:GLY:CA	1:J:780:ASP:O	2.39	0.71
1:K:844:VAL:CG1	4:p:68:HIS:CB	2.68	0.71
1:K:1121:ASP:N	1:K:1181:GLN:O	2.24	0.71
1:M:298:THR:HB	1:M:367:LEU:HD12	1.73	0.71
1:O:1225:LEU:HD13	1:P:1176:GLY:HA3	1.73	0.71
3:S:316:TYR:CD2	3:S:419:TYR:HA	2.25	0.71
2:U:38:ARG:HE	3:V:305:PRO:HD2	1.54	0.71
2:X:236:TYR:C	2:X:238:ASN:H	1.98	0.71
3:Y:287:THR:O	3:Y:289:PRO:HD2	1.90	0.71
2:Z:186:LEU:HD12	2:Z:186:LEU:C	2.15	0.71
2:a:5:CYS:SG	2:a:94:HIS:CE1	2.84	0.71
3:e:288:ILE:CG2	3:e:457:TRP:CH2	2.73	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:j:1:MET:H2	4:j:5:GLN:CB	2.03	0.71
4:o:23:ARG:C	4:o:25:LEU:H	1.98	0.71
4:o:46:THR:CG2	4:o:50:VAL:HG13	2.11	0.71
4:q:44:HIS:CD2	4:q:50:VAL:HG13	2.25	0.71
1:C:96:GLN:NE2	1:M:15:ALA:HB3	2.05	0.71
1:E:1057:ARG:O	1:E:1118:PRO:O	2.09	0.71
1:F:272:ARG:HD3	1:F:374:LEU:CD1	2.21	0.71
1:I:945:LEU:HD21	1:J:805:TRP:CZ3	2.26	0.71
1:J:512:ARG:CZ	1:J:563:VAL:CG1	2.68	0.71
1:J:743:MET:HE1	1:J:796:ASP:O	1.90	0.71
1:L:532:MET:C	1:L:534:PRO:HD2	2.15	0.71
1:M:140:ILE:O	1:M:144:THR:HG23	1.91	0.71
1:M:293:LEU:HD22	1:M:370:ILE:HG13	1.72	0.71
1:M:883:ARG:HH21	4:r:88:LEU:CD1	2.03	0.71
1:O:591:PHE:HZ	1:O:1045:HIS:CD2	2.08	0.71
1:O:759:GLY:C	1:O:779:ASN:O	2.33	0.71
1:P:1115:VAL:CG1	1:P:1374:LEU:HD21	2.19	0.71
2:T:300:PHE:O	2:T:301:ASP:C	2.31	0.71
3:V:120:CYS:O	3:V:215:TYR:HD2	1.73	0.71
3:b:242:HIS:C	3:b:244:VAL:H	1.98	0.71
3:e:288:ILE:N	3:e:289:PRO:HD2	2.03	0.71
4:g:44:HIS:CD2	4:g:50:VAL:HG13	2.25	0.71
4:h:23:ARG:C	4:h:25:LEU:H	1.98	0.71
4:k:35:ILE:CA	4:k:36:MET:SD	2.79	0.71
1:G:1166:PHE:HZ	2:Q:280:ALA:HB3	0.98	0.71
1:B:1082:ARG:CB	1:B:1091:PHE:H	2.04	0.71
1:D:1107:THR:HG22	1:D:1108:ALA:H	1.56	0.71
1:E:1197:ASN:N	1:E:1197:ASN:HD22	1.88	0.71
1:H:847:ILE:HG21	4:m:71:ASN:CA	2.18	0.71
1:J:401:THR:OG1	1:J:1054:ARG:C	2.34	0.71
1:J:1188:ILE:HG21	1:J:1246:ALA:HB2	1.71	0.71
1:K:665:VAL:O	1:K:812:TYR:OH	2.07	0.71
1:L:530:GLN:C	1:L:536:ASN:HD22	1.99	0.71
1:N:378:GLU:OE2	1:N:380:LEU:HD21	1.91	0.71
1:O:419:HIS:HA	1:P:422:ASP:HA	1.73	0.71
1:O:790:ARG:HH22	4:s:101:PHE:CB	2.03	0.71
1:P:70:PHE:O	1:P:70:PHE:CD2	2.44	0.71
1:P:439:GLN:HE21	1:P:451:ARG:NH2	1.58	0.71
2:Q:80:PRO:O	2:Q:81:THR:OG1	2.09	0.71
3:S:136:HIS:O	3:S:139:ASP:O	2.08	0.71
3:V:112:ARG:HD2	3:V:264:THR:HG22	1.73	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:W:296:ARG:HD2	2:W:318:PRO:O	1.86	0.71
3:Y:302:LEU:HD12	3:Y:302:LEU:N	2.03	0.71
2:Z:160:ILE:HD11	2:Z:210:VAL:HG22	1.73	0.71
2:c:296:ARG:HD2	2:c:318:PRO:O	1.86	0.71
4:m:22:MET:CE	4:m:57:GLN:O	2.39	0.71
4:m:53:PHE:O	4:m:54:LEU:C	2.28	0.71
4:o:20:LEU:HD13	4:o:21:GLY:N	2.06	0.71
4:q:7:HIS:CE1	4:q:44:HIS:NE2	2.28	0.71
1:B:675:VAL:HA	1:B:687:MET:HE1	1.73	0.70
1:B:1131:LEU:HD21	1:B:1157:LEU:O	1.91	0.70
1:H:536:ASN:O	1:H:537:ALA:C	2.34	0.70
1:I:1131:LEU:HB3	1:I:1267:SER:HB2	1.73	0.70
1:J:433:ARG:O	1:J:1358:PHE:HB3	1.88	0.70
1:L:488:GLY:CA	1:L:520:TRP:CH2	2.73	0.70
1:N:1168:CYS:O	1:N:1170:GLN:N	2.24	0.70
1:O:530:GLN:HA	1:O:536:ASN:HD21	1.48	0.70
1:O:553:VAL:HG21	1:O:556:VAL:HG13	1.73	0.70
1:O:847:ILE:HG21	4:s:70:ASN:O	1.90	0.70
2:T:80:PRO:O	2:T:81:THR:OG1	2.09	0.70
3:V:287:THR:O	3:V:289:PRO:HD2	1.90	0.70
3:Y:112:ARG:HG2	3:Y:112:ARG:HH21	1.55	0.70
3:Y:198:TYR:CE1	3:Y:294:VAL:HG11	2.23	0.70
3:Y:251:LEU:HD21	3:Y:254:TRP:CZ3	2.20	0.70
2:c:80:PRO:O	2:c:81:THR:OG1	2.09	0.70
3:e:287:THR:O	3:e:289:PRO:HD2	1.90	0.70
4:j:107:LYS:HG2	4:j:108:THR:H	1.55	0.70
4:t:22:MET:CE	4:t:57:GLN:O	2.39	0.70
4:t:46:THR:CG2	4:t:50:VAL:HG13	2.11	0.70
1:A:448:GLN:H	1:F:1201:ARG:HD2	1.55	0.70
1:A:1287:ARG:HH11	1:A:1287:ARG:HG2	1.56	0.70
1:A:1300:VAL:HG12	1:A:1313:ARG:CD	2.21	0.70
1:I:842:MET:CE	4:n:61:LEU:HD21	2.18	0.70
1:M:29:VAL:O	1:M:30:ALA:HB3	1.90	0.70
1:M:381:GLU:OE1	1:M:392:TYR:CB	2.35	0.70
2:Q:300:PHE:O	2:Q:301:ASP:C	2.31	0.70
3:S:165:LEU:HD23	3:S:165:LEU:C	2.15	0.70
3:V:242:HIS:C	3:V:244:VAL:H	1.98	0.70
2:X:13:PRO:HD3	2:X:43:LEU:HD23	1.71	0.70
2:X:267:ARG:NH1	3:Y:145:ARG:O	2.23	0.70
3:Y:143:LEU:C	3:Y:145:ARG:N	2.49	0.70
3:Y:296:LEU:HD23	3:Y:434:ARG:HH11	1.56	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Z:306:VAL:HG11	2:Z:312:ALA:HB2	1.72	0.70
3:b:251:LEU:CD2	3:b:254:TRP:HZ3	2.00	0.70
3:e:112:ARG:HD2	3:e:264:THR:HG22	1.73	0.70
3:e:321:ASP:O	3:e:322:GLN:HB2	1.91	0.70
4:g:9:PRO:HB3	4:g:18:ARG:C	2.15	0.70
4:g:9:PRO:HB3	4:g:18:ARG:N	2.06	0.70
1:A:195:LEU:C	1:A:195:LEU:CD1	2.62	0.70
1:A:209:ARG:NH2	1:A:1290:GLU:OE2	2.25	0.70
1:B:847:ILE:CG2	4:h:71:ASN:HA	2.21	0.70
1:I:124:ILE:HA	1:I:1100:VAL:CG2	2.21	0.70
1:J:402:PHE:CA	1:J:1332:TYR:O	2.39	0.70
1:J:766:ALA:C	1:J:796:ASP:OD1	2.34	0.70
1:O:778:ARG:HG3	1:O:904:ARG:HE	1.56	0.70
1:P:267:ALA:HB2	1:P:274:VAL:O	1.88	0.70
2:Q:106:VAL:CG1	2:Q:305:VAL:HG12	2.21	0.70
2:Q:306:VAL:HG11	2:Q:312:ALA:HB2	1.72	0.70
3:S:242:HIS:C	3:S:244:VAL:H	1.98	0.70
3:V:316:TYR:CD2	3:V:419:TYR:HA	2.25	0.70
3:Y:279:PRO:HB3	3:Y:284:SER:CA	2.20	0.70
3:b:110:LEU:HD23	3:b:110:LEU:C	2.16	0.70
2:c:108:LEU:HD13	3:e:136:HIS:HE1	1.56	0.70
2:d:38:ARG:NE	3:e:305:PRO:O	2.21	0.70
4:i:23:ARG:C	4:i:25:LEU:H	1.98	0.70
4:o:22:MET:CE	4:o:57:GLN:O	2.39	0.70
4:q:35:ILE:CA	4:q:36:MET:SD	2.79	0.70
4:r:22:MET:CE	4:r:57:GLN:O	2.39	0.70
4:r:35:ILE:CA	4:r:36:MET:SD	2.79	0.70
4:s:22:MET:CE	4:s:57:GLN:O	2.39	0.70
1:G:467:MET:HE3	1:G:1033:PRO:HG3	1.74	0.70
1:A:846:GLU:CD	4:g:67:THR:OG1	2.34	0.70
1:D:714:LEU:HD13	1:D:719:GLN:HE22	1.56	0.70
1:D:903:GLU:HG2	1:D:904:ARG:HG2	1.74	0.70
1:F:1248:GLN:O	1:F:1251:SER:OG	2.09	0.70
1:I:81:CYS:HB3	1:I:306:TYR:HE1	1.55	0.70
1:I:918:ALA:HB2	1:I:1032:SER:HB3	1.73	0.70
1:I:1344:ARG:HA	1:I:1347:ARG:NH2	2.07	0.70
1:J:767:ALA:N	1:J:796:ASP:OD2	2.24	0.70
1:J:1018:ASN:OD1	1:J:1019:ALA:N	2.25	0.70
1:J:1273:CYS:HB3	1:J:1277:PHE:CE2	2.26	0.70
1:L:756:ILE:HD12	1:L:760:GLY:O	1.89	0.70
1:M:604:HIS:HD2	1:M:696:HIS:CD2	2.09	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:70:PHE:CG	1:N:70:PHE:O	2.42	0.70
1:O:1115:VAL:CG1	1:O:1374:LEU:HD21	2.20	0.70
1:P:445:LYS:HB2	1:P:1122:MET:HB3	1.73	0.70
1:P:1298:SER:HB2	1:P:1320:LEU:HD22	1.72	0.70
2:Q:180:TYR:HD1	2:Q:180:TYR:H	1.38	0.70
2:R:13:PRO:HD3	2:R:43:LEU:CG	2.16	0.70
2:T:227:LEU:HD12	2:T:228:LEU:HD11	1.67	0.70
2:U:230:LEU:HB3	2:U:237:VAL:HG11	1.71	0.70
3:Y:137:PRO:O	3:Y:140:LEU:HD12	1.91	0.70
2:Z:178:VAL:HG11	2:Z:180:TYR:OH	1.91	0.70
4:f:92:PHE:HA	4:f:102:VAL:CB	2.22	0.70
4:i:7:HIS:CE1	4:i:44:HIS:NE2	2.28	0.70
4:o:44:HIS:CD2	4:o:50:VAL:HG13	2.25	0.70
4:t:35:ILE:CA	4:t:36:MET:SD	2.79	0.70
1:G:324:LYS:N	1:G:326:VAL:HG12	2.05	0.70
1:A:1252:TYR:O	1:A:1252:TYR:CG	2.44	0.70
1:B:829:GLY:HA3	1:B:956:TYR:CZ	2.26	0.70
1:F:196:ALA:HB1	1:F:227:PHE:HA	1.74	0.70
1:F:259:VAL:HG21	1:F:1102:LEU:HG	1.73	0.70
1:H:90:MET:SD	1:H:126:ARG:NH1	2.65	0.70
1:H:532:MET:CE	1:H:534:PRO:HG2	2.22	0.70
1:I:861:PRO:O	1:I:869:ASN:ND2	2.25	0.70
1:L:140:ILE:HD11	1:L:1089:VAL:HG23	1.72	0.70
1:L:476:VAL:HG13	1:L:571:ILE:CG1	2.21	0.70
1:M:520:TRP:CZ3	1:M:1004:GLN:OE1	2.43	0.70
1:M:696:HIS:HE1	1:M:1021:THR:HG21	1.56	0.70
1:M:1152:VAL:HG13	1:M:1159:PRO:HD2	1.74	0.70
1:O:867:PRO:HB3	4:t:80:ALA:CB	2.14	0.70
1:P:47:ASN:OD1	1:P:48:SER:N	2.24	0.70
1:P:1056:ASP:OD1	1:P:1120:THR:HG21	1.90	0.70
2:T:37:ILE:CD1	2:U:298:CYS:SG	2.75	0.70
3:V:300:LEU:CD2	3:V:333:GLN:N	2.54	0.70
2:a:68:ARG:NH2	2:a:288:ILE:O	2.18	0.70
4:h:20:LEU:HD12	4:h:20:LEU:N	2.05	0.70
4:h:44:HIS:CD2	4:h:50:VAL:HG13	2.25	0.70
4:j:23:ARG:C	4:j:25:LEU:H	1.98	0.70
4:m:44:HIS:CD2	4:m:50:VAL:HG13	2.25	0.70
1:G:153:ILE:O	1:G:157:ARG:NH2	2.23	0.70
1:G:905:THR:OG1	1:G:935:ALA:O	2.08	0.70
1:G:1182:ASP:HB2	1:G:1309:VAL:CA	2.22	0.70
1:A:269:THR:CB	1:A:362:ARG:HH12	2.04	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:485:ASN:O	1:B:487:TYR:N	2.24	0.70
1:F:530:GLN:HG3	1:F:536:ASN:HD21	1.55	0.70
1:H:147:ALA:O	1:H:148:LEU:C	2.34	0.70
1:H:401:THR:HG23	1:H:1275:LYS:HZ1	1.57	0.70
1:H:837:ALA:HB1	4:n:94:LEU:O	1.90	0.70
1:I:873:ASN:OD1	4:o:92:PHE:N	2.24	0.70
1:N:201:MET:O	1:N:201:MET:HG3	1.90	0.70
1:N:539:LEU:O	1:N:541:LEU:N	2.25	0.70
2:R:128:VAL:HG11	2:R:137:LEU:HB2	1.73	0.70
3:b:118:ASP:O	3:b:223:ARG:NH1	2.25	0.70
4:k:23:ARG:C	4:k:25:LEU:H	1.98	0.70
4:p:1:MET:H3	4:p:5:GLN:HB2	1.56	0.70
4:q:107:LYS:HG2	4:q:108:THR:H	1.54	0.70
1:G:591:PHE:HZ	1:G:1045:HIS:CD2	2.10	0.70
1:G:1300:VAL:H	1:G:1323:ASP:CB	2.05	0.70
1:B:1181:GLN:HE21	1:B:1310:GLN:HA	1.56	0.70
1:C:109:PRO:HA	2:X:40:GLN:CG	2.15	0.70
1:D:714:LEU:HB2	1:D:722:LEU:HD11	1.73	0.70
1:E:196:ALA:HB1	1:E:227:PHE:HA	1.74	0.70
1:E:591:PHE:HZ	1:E:1045:HIS:CD2	2.06	0.70
1:H:297:ASP:OD1	1:H:297:ASP:N	2.23	0.70
1:I:96:GLN:HE22	1:L:12:ARG:H	1.39	0.70
1:J:279:VAL:CB	1:J:394:LEU:HD11	2.22	0.70
1:J:786:ASN:HA	1:J:788:GLN:OE1	1.92	0.70
1:K:280:THR:CG2	1:K:284:ILE:CG2	2.69	0.70
1:K:467:MET:HE1	1:K:575:TRP:NE1	2.01	0.70
1:K:559:PRO:HB2	1:K:755:ARG:NH2	1.71	0.70
1:L:840:GLN:NE2	4:q:58:ALA:CB	2.48	0.70
1:N:425:PRO:CD	1:N:431:GLU:OE1	2.39	0.70
1:P:759:GLY:CA	1:P:779:ASN:O	2.39	0.70
2:W:80:PRO:O	2:W:81:THR:OG1	2.09	0.70
3:Y:242:HIS:C	3:Y:244:VAL:H	1.98	0.70
3:Y:436:LEU:HD22	3:Y:450:VAL:CG2	2.17	0.70
3:b:206:ALA:HB1	3:b:447:VAL:HG12	1.72	0.70
3:e:317:ARG:O	3:e:323:GLU:CA	2.37	0.70
4:m:7:HIS:CE1	4:m:44:HIS:ND1	2.59	0.70
4:s:9:PRO:HB3	4:s:18:ARG:CB	2.21	0.70
1:B:1132:GLY:HA2	1:B:1266:ALA:HB3	1.73	0.70
1:C:722:LEU:O	1:C:1035:ALA:HB2	1.92	0.70
1:C:837:ALA:CB	4:j:94:LEU:O	2.40	0.70
1:C:933:LEU:HD21	1:C:958:LEU:HD21	1.74	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:75:LEU:HD11	1:D:185:LEU:HD12	1.72	0.70
1:F:1134:GLY:HA3	1:F:1263:LEU:HA	1.74	0.70
1:I:83:LYS:HE2	3:Y:41:ILE:HG22	1.74	0.70
1:K:918:ALA:HB2	1:K:1032:SER:HB3	1.72	0.70
1:M:137:THR:HG22	1:M:1087:GLY:O	1.90	0.70
1:M:918:ALA:HB2	1:M:1032:SER:HB3	1.71	0.70
1:N:286:GLN:O	1:N:290:GLN:HG2	1.92	0.70
1:N:293:LEU:HD21	1:N:377:LEU:HD22	1.74	0.70
1:N:1218:LYS:CE	1:O:1173:ARG:NH2	2.54	0.70
1:O:665:VAL:O	1:O:812:TYR:OH	2.08	0.70
3:V:39:PRO:HG2	3:V:41:ILE:O	1.92	0.70
3:V:288:ILE:HG21	3:V:457:TRP:HH2	1.50	0.70
2:W:268:ARG:CZ	2:X:164:ASN:HB3	2.22	0.70
2:a:25:GLN:HA	2:a:78:VAL:HG21	1.73	0.70
3:b:130:LEU:O	3:b:187:PHE:N	2.23	0.70
3:e:437:HIS:CB	3:e:449:VAL:CG1	2.70	0.70
4:f:22:MET:CE	4:f:57:GLN:O	2.39	0.70
4:h:35:ILE:CA	4:h:36:MET:SD	2.79	0.70
4:i:35:ILE:CA	4:i:36:MET:SD	2.79	0.70
4:l:35:ILE:CA	4:l:36:MET:SD	2.79	0.70
1:G:77:VAL:HA	1:G:266:HIS:HE1	1.56	0.70
1:G:96:GLN:OE1	1:B:49:LEU:HD22	1.92	0.70
1:A:97:PHE:HB2	1:B:62:CYS:SG	2.32	0.70
1:A:1118:PRO:HD3	1:A:1374:LEU:HD22	1.73	0.70
1:A:1218:LYS:HG2	1:A:1218:LYS:O	1.90	0.70
1:B:49:LEU:HD13	1:B:49:LEU:C	2.17	0.70
1:D:638:GLU:OE1	1:D:801:ARG:NH2	2.23	0.70
1:E:944:HIS:CD2	1:E:945:LEU:CD1	2.75	0.70
1:I:436:PRO:HB3	1:I:591:PHE:HE1	1.57	0.70
1:I:866:HIS:CD2	1:I:868:ALA:H	2.09	0.70
1:I:1350:GLU:CD	1:I:1364:TYR:CD2	2.70	0.70
1:J:895:GLN:OE1	4:o:62:THR:HA	1.92	0.70
1:K:278:LEU:HD23	1:K:377:LEU:CD1	2.19	0.70
1:K:1232:SER:HB2	1:K:1237:PRO:O	1.92	0.70
1:O:1155:ASN:HB2	1:O:1158:GLY:CA	2.22	0.70
3:S:311:TYR:CA	3:S:423:ALA:O	2.37	0.70
2:U:160:ILE:HG12	2:U:202:LEU:HD12	1.74	0.70
3:Y:144:ALA:HB1	3:Y:154:THR:HB	1.74	0.70
2:a:32:VAL:HG13	2:a:46:VAL:HG11	1.73	0.70
2:d:236:TYR:C	2:d:238:ASN:H	1.98	0.70
3:e:200:ALA:CB	3:e:294:VAL:HG13	2.22	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:k:7:HIS:CE1	4:k:44:HIS:NE2	2.28	0.70
4:s:23:ARG:C	4:s:25:LEU:H	1.98	0.70
1:G:422:ASP:O	1:G:423:LEU:HB2	1.92	0.70
1:G:1286:HIS:CE1	1:G:1295:GLU:HB2	2.26	0.70
1:C:1125:LEU:HD12	1:C:1126:PRO:HD2	1.73	0.70
1:D:30:ALA:HB2	1:D:41:ARG:HD2	1.74	0.70
1:D:591:PHE:HZ	1:D:1045:HIS:CD2	2.08	0.70
1:D:1248:GLN:C	1:D:1251:SER:HG	1.95	0.70
1:H:82:THR:CA	1:H:307:GLY:O	2.40	0.70
1:I:1355:GLU:CD	1:J:1344:ARG:HE	1.98	0.70
1:J:548:ASP:OD1	1:J:576:ARG:NE	2.23	0.70
1:J:1299:ALA:O	1:J:1320:LEU:CA	2.40	0.70
1:L:274:VAL:HG22	1:L:374:LEU:HD23	1.74	0.70
1:M:297:ASP:OD1	1:M:298:THR:N	2.25	0.70
1:M:833:ASP:OD1	1:M:834:ARG:N	2.25	0.70
1:O:946:ASP:HB3	1:P:676:THR:HG21	1.74	0.70
1:P:581:ASN:ND2	1:P:1003:ARG:H	1.89	0.70
3:S:118:ASP:O	3:S:223:ARG:NH1	2.25	0.70
3:V:41:ILE:CD1	3:V:41:ILE:H	2.04	0.70
3:V:300:LEU:HD21	3:V:333:GLN:N	2.05	0.70
2:a:29:GLY:C	2:a:101:ARG:HB3	2.16	0.70
4:p:7:HIS:CE1	4:p:44:HIS:HE1	1.94	0.70
1:G:417:ALA:HA	1:G:1358:PHE:HD1	1.56	0.69
1:G:739:CYS:SG	1:G:765:TYR:CZ	2.85	0.69
1:G:1227:TYR:CD2	1:G:1249:ARG:NH2	2.60	0.69
1:A:323:GLY:O	1:A:324:LYS:HG3	1.92	0.69
1:C:1229:HIS:CE1	1:C:1241:THR:HG21	2.24	0.69
1:F:840:GLN:HE22	4:l:58:ALA:HB2	1.57	0.69
1:H:77:VAL:CG1	1:H:277:VAL:HG22	2.22	0.69
1:J:1206:ARG:HD2	1:J:1247:SER:HA	1.74	0.69
1:J:1271:SER:O	1:J:1272:PRO:C	2.31	0.69
1:M:269:THR:HG1	1:M:298:THR:HG1	1.31	0.69
1:M:501:MET:CE	1:M:958:LEU:HD11	2.22	0.69
1:N:1077:GLN:NE2	3:V:82:ASP:HA	2.06	0.69
1:O:527:THR:HG22	1:O:528:ALA:H	1.57	0.69
1:P:429:HIS:HB3	1:P:430:PRO:HD2	1.72	0.69
2:R:236:TYR:C	2:R:238:ASN:H	1.97	0.69
3:Y:112:ARG:HD2	3:Y:264:THR:HG22	1.73	0.69
3:Y:120:CYS:O	3:Y:215:TYR:HD2	1.73	0.69
3:Y:435:CYS:O	3:Y:450:VAL:CG1	2.38	0.69
2:c:104:SER:HB3	2:c:105:PRO:HD3	1.74	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:e:242:HIS:C	3:e:244:VAL:H	1.98	0.69
3:e:251:LEU:CD2	3:e:254:TRP:HZ3	2.00	0.69
4:f:46:THR:CG2	4:f:50:VAL:HG13	2.11	0.69
4:k:22:MET:CE	4:k:57:GLN:O	2.39	0.69
1:G:295:VAL:HG22	1:G:369:ALA:H	1.39	0.69
1:A:195:LEU:CD1	1:A:195:LEU:O	2.40	0.69
1:A:1218:LYS:HZ3	1:B:1173:ARG:HH21	1.39	0.69
1:A:1241:THR:HG21	1:A:1247:SER:HG	1.55	0.69
1:B:895:GLN:OE1	4:h:62:THR:HA	1.92	0.69
1:C:213:ARG:NH2	1:D:1173:ARG:HH11	1.87	0.69
1:C:533:GLN:N	1:C:534:PRO:HD3	2.07	0.69
1:C:755:ARG:CZ	1:C:755:ARG:HB2	2.22	0.69
1:D:842:MET:CE	4:j:61:LEU:CD1	2.68	0.69
1:E:193:PRO:HG2	1:E:198:LEU:HD12	1.74	0.69
1:I:534:PRO:HD2	1:I:535:ASP:H	1.57	0.69
1:I:633:ALA:HB2	1:I:839:LEU:CD1	2.21	0.69
1:J:275:ASP:OD2	1:J:373:ARG:CB	2.39	0.69
1:K:534:PRO:HB3	1:L:1154:GLY:CA	2.21	0.69
1:L:331:ASP:OD1	1:L:332:VAL:N	2.25	0.69
1:L:481:VAL:HG22	1:L:482:GLU:N	2.08	0.69
1:L:837:ALA:HA	4:q:54:LEU:HD22	1.71	0.69
1:N:867:PRO:HB3	4:s:80:ALA:CB	2.17	0.69
1:N:1206:ARG:NH1	1:N:1210:ALA:CB	2.35	0.69
2:X:264:ASP:HB3	3:Y:150:PRO:HG3	1.74	0.69
2:a:114:VAL:HB	2:a:295:VAL:HG12	1.74	0.69
3:b:160:ALA:O	3:b:163:GLN:HG2	1.92	0.69
3:b:296:LEU:C	3:b:296:LEU:HD12	2.17	0.69
3:e:33:LEU:O	3:e:36:VAL:HG23	1.91	0.69
4:f:16:ASN:CA	4:f:20:LEU:CD1	2.70	0.69
4:f:99:SER:CB	4:q:32:ALA:O	2.40	0.69
4:n:18:ARG:CB	4:n:56:GLY:HA2	2.22	0.69
4:p:22:MET:CE	4:p:57:GLN:O	2.39	0.69
4:s:21:GLY:O	4:s:22:MET:C	2.32	0.69
1:G:738:ASP:HB3	1:G:787:THR:CG2	2.21	0.69
1:G:758:ALA:HB2	1:G:904:ARG:NH2	1.73	0.69
1:A:534:PRO:HB3	1:B:1154:GLY:N	2.07	0.69
1:B:35:LEU:C	1:B:37:ASP:H	1.99	0.69
1:B:1073:TYR:OH	1:B:1097:ARG:NH1	2.26	0.69
1:B:1315:PRO:CB	3:S:116:LEU:HD21	2.19	0.69
1:D:227:PHE:CE2	1:D:1324:PRO:HG3	2.27	0.69
1:D:730:ALA:HB2	1:D:750:ARG:HH12	1.58	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:439:GLN:HA	1:E:453:SER:HA	1.74	0.69
1:H:426:ALA:HB3	1:H:429:HIS:ND1	2.06	0.69
1:M:296:GLU:H	1:M:368:VAL:HG12	1.56	0.69
1:N:1314:PRO:HG2	1:N:1317:CYS:HB2	1.75	0.69
1:O:269:THR:HG21	1:O:367:LEU:HD13	1.74	0.69
1:O:707:PHE:HA	1:O:1042:THR:HG21	1.73	0.69
1:P:124:ILE:HG13	1:P:1100:VAL:HG21	1.74	0.69
1:P:263:ARG:NH2	1:P:305:THR:O	2.24	0.69
3:S:288:ILE:HG12	3:S:457:TRP:HZ2	1.58	0.69
2:T:183:GLY:O	2:T:184:ALA:O	2.10	0.69
3:V:118:ASP:O	3:V:223:ARG:NH1	2.25	0.69
3:V:439:THR:HA	3:V:447:VAL:O	1.93	0.69
3:Y:118:ASP:O	3:Y:223:ARG:NH1	2.25	0.69
2:Z:104:SER:HB3	2:Z:105:PRO:CD	2.18	0.69
4:i:92:PHE:HA	4:i:102:VAL:CB	2.22	0.69
4:n:44:HIS:CD2	4:n:50:VAL:HG13	2.25	0.69
1:G:97:PHE:CE1	1:G:120:MET:SD	2.85	0.69
1:G:917:GLY:HA2	1:G:1138:LEU:HD13	1.73	0.69
1:A:109:PRO:CG	3:S:255:VAL:HG11	2.22	0.69
1:A:415:ARG:HH22	1:A:590:ALA:CB	2.06	0.69
1:B:124:ILE:HG22	1:B:1100:VAL:HG13	1.75	0.69
1:I:840:GLN:O	1:I:841:ASN:C	2.33	0.69
1:J:13:TYR:CZ	1:J:49:LEU:HD23	2.28	0.69
1:J:759:GLY:HA3	1:J:780:ASP:O	1.92	0.69
1:J:1036:LEU:HD12	1:J:1039:GLN:OE1	1.91	0.69
1:J:1053:VAL:HB	1:J:1186:GLU:HB2	1.74	0.69
1:M:71:LEU:CD1	1:M:306:TYR:CE1	2.76	0.69
1:M:837:ALA:CB	4:f:54:LEU:HD21	2.22	0.69
1:N:13:TYR:O	1:N:14:ALA:HB3	1.91	0.69
1:N:1077:GLN:HE22	3:V:82:ASP:HA	1.55	0.69
1:O:403:VAL:HG23	1:O:1331:ALA:HB1	1.73	0.69
1:O:737:TRP:CZ3	1:O:935:ALA:HB1	2.27	0.69
1:O:784:LEU:HB3	1:O:786:ASN:OD1	1.92	0.69
1:P:241:ARG:CA	1:P:292:PHE:HE1	2.00	0.69
2:W:279:LEU:HD22	2:X:153:ALA:HB2	1.74	0.69
2:Z:37:ILE:CD1	2:a:298:CYS:SG	2.76	0.69
2:Z:80:PRO:O	2:Z:81:THR:OG1	2.09	0.69
2:d:160:ILE:HG12	2:d:202:LEU:HD12	1.74	0.69
4:j:95:LYS:HE3	4:j:95:LYS:CA	2.13	0.69
1:G:499:ALA:CB	1:G:831:ARG:NH1	2.37	0.69
1:A:1125:LEU:HD12	1:A:1126:PRO:HD2	1.72	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:621:ARG:HH11	1:B:621:ARG:HG3	1.57	0.69
1:C:1134:GLY:O	1:C:1263:LEU:CD2	2.41	0.69
1:C:1313:ARG:HD2	1:C:1314:PRO:O	1.91	0.69
1:F:26:THR:C	1:F:27:ILE:HG23	2.17	0.69
1:I:8:PRO:HB3	1:I:37:ASP:OD1	1.92	0.69
1:I:1073:TYR:CZ	1:I:1097:ARG:HD3	2.27	0.69
1:I:1249:ARG:O	1:I:1250:PHE:HB2	1.93	0.69
1:J:400:LEU:CD2	1:J:1368:PRO:HB2	2.23	0.69
1:K:842:MET:HG2	4:p:61:LEU:CD2	2.15	0.69
1:L:202:GLN:NE2	1:L:205:LEU:HD22	2.08	0.69
1:M:285:LYS:HE2	1:M:377:LEU:HD23	1.74	0.69
1:M:1225:LEU:HD13	1:M:1225:LEU:O	1.93	0.69
1:N:842:MET:HG2	4:r:61:LEU:CD2	2.19	0.69
1:P:293:LEU:CA	1:P:295:VAL:HG23	2.21	0.69
2:R:114:VAL:HB	2:R:295:VAL:HG12	1.74	0.69
3:V:316:TYR:O	3:V:349:ARG:CD	2.29	0.69
4:h:18:ARG:HA	4:h:56:GLY:CA	2.23	0.69
4:i:7:HIS:CE1	4:i:44:HIS:ND1	2.59	0.69
4:p:44:HIS:CD2	4:p:50:VAL:HG13	2.25	0.69
1:G:315:ASN:CB	1:A:312:ASN:CB	2.70	0.69
1:G:409:PHE:HD2	1:G:415:ARG:NH2	1.90	0.69
1:G:906:THR:HB	1:G:934:HIS:HB3	1.75	0.69
1:G:1313:ARG:CD	1:G:1317:CYS:HB2	2.21	0.69
1:A:714:LEU:HB2	1:A:722:LEU:HD11	1.75	0.69
1:A:1354:ARG:HH22	1:A:1357:HIS:HD2	1.41	0.69
1:D:415:ARG:HH22	1:D:590:ALA:HB1	1.58	0.69
1:D:873:ASN:ND2	4:k:92:PHE:CB	2.55	0.69
1:D:918:ALA:HA	1:D:1033:PRO:HD3	1.73	0.69
1:F:415:ARG:HH22	1:F:590:ALA:CB	2.04	0.69
1:F:532:MET:HE2	1:F:534:PRO:CG	2.20	0.69
1:H:519:ARG:HG3	1:H:998:TYR:HH	1.57	0.69
1:H:1008:GLN:HE21	1:H:1012:GLU:HB2	1.58	0.69
1:I:347:ASN:ND2	1:J:163:GLN:HB3	2.07	0.69
1:J:458:VAL:O	1:J:462:CYS:HB2	1.93	0.69
1:L:837:ALA:HB3	4:f:94:LEU:O	1.92	0.69
1:L:1077:GLN:HE21	3:Y:85:GLN:HE21	1.39	0.69
1:M:70:PHE:O	1:M:70:PHE:CG	2.45	0.69
1:M:960:VAL:HA	1:M:994:LEU:HD13	1.74	0.69
2:R:161:ARG:NH2	2:R:174:PRO:HG2	2.08	0.69
3:S:112:ARG:CZ	3:S:262:SER:HB2	2.19	0.69
3:S:112:ARG:HD2	3:S:264:THR:HG22	1.73	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:S:321:ASP:O	3:S:322:GLN:HB2	1.91	0.69
2:d:114:VAL:HB	2:d:295:VAL:HG12	1.74	0.69
2:d:161:ARG:HH11	2:d:174:PRO:HG2	1.58	0.69
4:n:46:THR:CG2	4:n:50:VAL:HG13	2.11	0.69
1:G:77:VAL:CG2	1:G:78:ALA:N	2.55	0.69
1:G:90:MET:SD	1:G:124:ILE:HD11	2.32	0.69
1:G:1166:PHE:CZ	2:Q:280:ALA:C	2.70	0.69
1:G:1277:PHE:O	1:G:1278:THR:OG1	2.05	0.69
1:G:1357:HIS:O	1:G:1360:GLN:N	2.25	0.69
1:A:423:LEU:HD13	1:A:433:ARG:HH22	1.57	0.69
1:B:381:GLU:HA	1:B:385:TYR:HB2	1.75	0.69
1:C:134:SER:HB2	1:C:1090:ASN:HA	1.74	0.69
1:C:1313:ARG:HD3	1:C:1317:CYS:O	1.93	0.69
1:D:81:CYS:HB3	1:D:306:TYR:HE1	1.56	0.69
1:D:322:MET:HE1	1:H:318:THR:HB	1.74	0.69
1:D:467:MET:HE1	1:D:546:ALA:HB1	1.74	0.69
1:E:842:MET:SD	4:k:61:LEU:HD22	2.33	0.69
1:E:1056:ASP:OD1	1:E:1120:THR:HG21	1.92	0.69
1:H:1216:GLY:N	1:H:1221:ASP:OD2	2.25	0.69
1:K:544:HIS:CE1	1:K:1252:TYR:CD1	2.80	0.69
1:N:739:CYS:SG	1:N:785:HIS:HB3	2.32	0.69
3:V:288:ILE:CG2	3:V:457:TRP:CH2	2.73	0.69
3:V:321:ASP:O	3:V:322:GLN:HB2	1.91	0.69
2:W:37:ILE:CD1	2:X:298:CYS:SG	2.76	0.69
4:f:21:GLY:O	4:f:22:MET:C	2.32	0.69
4:m:35:ILE:CA	4:m:36:MET:SD	2.79	0.69
4:p:35:ILE:CA	4:p:36:MET:SD	2.79	0.69
4:q:7:HIS:CE1	4:q:44:HIS:ND1	2.59	0.69
4:q:21:GLY:O	4:q:22:MET:C	2.34	0.69
4:t:10:SER:O	4:t:16:ASN:O	2.10	0.69
4:t:106:PRO:O	4:t:107:LYS:HB2	1.93	0.69
1:G:84:PHE:HD2	1:G:87:LEU:HB3	1.56	0.69
1:G:231:SER:O	1:G:1112:THR:OG1	2.10	0.69
1:G:628:TYR:CB	1:G:955:PHE:CE2	2.75	0.69
1:G:1055:GLN:HB3	1:G:1310:GLN:HE22	1.58	0.69
1:G:1161:GLN:CG	2:R:180:TYR:CE1	2.76	0.69
1:G:1243:ASN:ND2	1:G:1246:ALA:CB	2.56	0.69
1:B:534:PRO:CG	1:C:1154:GLY:C	2.66	0.69
1:C:108:GLY:C	2:X:40:GLN:NE2	2.51	0.69
1:C:756:ILE:CD1	1:C:906:THR:CG2	2.55	0.69
1:D:92:GLU:OE1	1:D:94:ARG:NH2	2.26	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:297:ASP:C	1:D:298:THR:HG23	2.18	0.69
1:F:237:ALA:HB1	1:F:240:ARG:NH2	2.08	0.69
1:H:580:GLY:HA2	1:H:592:ARG:HH12	1.57	0.69
1:H:730:ALA:CB	1:H:750:ARG:HH12	2.05	0.69
1:I:224:LYS:HE3	1:I:1330:GLU:CD	2.18	0.69
1:J:35:LEU:HD22	1:K:1104:VAL:O	1.93	0.69
1:J:610:THR:HB	1:J:692:ASP:HB3	1.75	0.69
1:K:124:ILE:HD11	1:L:58:LEU:HD22	0.69	0.69
1:K:127:ARG:NH1	1:K:1099:ASN:OD1	2.24	0.69
1:K:666:ASN:CG	1:K:940:MET:CE	2.66	0.69
1:M:558:LEU:C	1:M:560:GLY:H	2.01	0.69
1:O:27:ILE:HD11	1:O:32:HIS:NE2	2.07	0.69
1:O:77:VAL:CA	1:O:266:HIS:NE2	2.56	0.69
2:W:106:VAL:CG1	2:W:305:VAL:HG12	2.21	0.69
2:W:227:LEU:HD13	2:W:228:LEU:H	1.53	0.69
2:a:35:PRO:C	2:a:70:ARG:HD3	2.15	0.69
2:a:86:CYS:HB3	2:a:98:VAL:HG21	1.74	0.69
3:b:122:PRO:CB	3:b:254:TRP:HB3	2.23	0.69
2:c:104:SER:HB3	2:c:105:PRO:CD	2.22	0.69
3:e:112:ARG:CZ	3:e:262:SER:HB2	2.19	0.69
4:o:86:GLU:H	4:o:105:ASP:CB	2.06	0.69
4:s:1:MET:H3	4:s:5:GLN:CB	2.06	0.69
1:G:818:PRO:O	1:G:822:ARG:HA	1.91	0.69
1:A:145:GLY:HA2	1:A:148:LEU:HD13	1.74	0.69
1:A:392:TYR:O	1:A:395:VAL:HG12	1.92	0.69
1:B:392:TYR:CE2	1:B:394:LEU:HB2	2.28	0.69
1:B:445:LYS:HE2	1:B:1179:HIS:O	1.93	0.69
1:I:309:MET:O	1:I:309:MET:HG3	1.92	0.69
1:I:1078:LEU:HB2	3:Y:40:PRO:HD3	1.73	0.69
1:P:312:ASN:HA	1:P:316:LEU:HB2	1.75	0.69
1:P:638:GLU:OE2	1:P:677:TYR:OH	2.05	0.69
2:R:16:ILE:C	2:R:132:SER:OG	2.35	0.69
2:T:230:LEU:CB	2:U:165:PRO:HD3	2.22	0.69
2:U:114:VAL:HB	2:U:295:VAL:HG12	1.74	0.69
4:o:9:PRO:CB	4:o:17:VAL:CB	2.71	0.69
1:A:833:ASP:OD1	1:A:834:ARG:N	2.26	0.69
1:A:1208:ARG:NH2	1:A:1240:ALA:O	2.26	0.69
1:B:1057:ARG:H	1:B:1120:THR:HG22	1.57	0.69
1:C:1095:GLN:HG2	1:C:1097:ARG:HE	1.58	0.69
1:E:533:GLN:N	1:E:534:PRO:CD	2.56	0.69
1:F:1229:HIS:HD2	1:F:1241:THR:HG23	1.58	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:280:THR:HG22	1:I:1063:VAL:HG12	1.75	0.69
1:L:124:ILE:HG12	1:L:1100:VAL:HG23	1.75	0.69
1:L:290:GLN:O	1:L:294:LYS:CD	2.41	0.69
1:L:403:VAL:CG2	1:L:1331:ALA:CB	2.69	0.69
1:L:486:PRO:O	1:L:509:TRP:HH2	1.75	0.69
1:L:1166:PHE:CB	3:Y:140:LEU:CG	2.71	0.69
1:L:1278:THR:O	1:L:1282:ILE:CD1	2.36	0.69
1:L:1333:PRO:HD2	1:L:1366:ALA:HB3	1.75	0.69
1:M:714:LEU:HB2	1:M:722:LEU:HD11	1.74	0.69
1:M:1225:LEU:HD22	1:M:1234:PRO:HG3	1.72	0.69
1:O:778:ARG:HH21	1:O:780:ASP:CG	2.00	0.69
1:O:1206:ARG:NH1	1:O:1226:MET:HB2	2.07	0.69
1:P:267:ALA:HB1	1:P:274:VAL:HB	1.73	0.69
1:P:814:TYR:O	1:P:818:PRO:HG2	1.93	0.69
3:Y:141:PRO:CG	3:Y:157:LEU:HB2	2.19	0.69
3:b:76:THR:CG2	3:b:80:ARG:CB	2.71	0.69
4:j:35:ILE:CA	4:j:36:MET:SD	2.79	0.69
4:o:1:MET:H3	4:o:5:GLN:CB	2.06	0.69
4:o:35:ILE:CA	4:o:36:MET:SD	2.79	0.69
4:q:7:HIS:CE1	4:q:44:HIS:HE1	1.94	0.69
4:q:9:PRO:CB	4:q:17:VAL:CB	2.69	0.69
1:G:77:VAL:HG12	1:G:266:HIS:HD1	1.58	0.68
1:G:832:PHE:HE2	1:G:902:ALA:HB1	1.56	0.68
1:A:269:THR:CG2	1:A:300:ALA:CB	2.70	0.68
1:A:467:MET:CE	1:A:575:TRP:HE1	2.06	0.68
1:A:520:TRP:CD1	1:A:520:TRP:H	2.11	0.68
1:A:840:GLN:OE1	4:g:58:ALA:HA	1.93	0.68
1:B:544:HIS:CD2	1:B:546:ALA:H	2.11	0.68
1:B:1115:VAL:CB	1:B:1374:LEU:HD21	2.22	0.68
1:I:946:ASP:OD1	1:J:677:TYR:HE1	1.72	0.68
1:J:241:ARG:NH2	1:J:292:PHE:O	2.26	0.68
1:J:279:VAL:HG23	1:J:1064:LEU:CA	2.22	0.68
1:J:301:ASP:HB3	1:J:367:LEU:HD11	1.74	0.68
1:J:402:PHE:CE1	1:J:1334:ILE:CG2	2.76	0.68
1:K:544:HIS:CD2	1:K:546:ALA:H	2.11	0.68
1:L:70:PHE:O	1:L:70:PHE:CD2	2.46	0.68
1:L:463:HIS:CE1	1:L:465:SER:OG	2.45	0.68
1:M:1224:ALA:O	1:M:1228:ASP:HB3	1.92	0.68
2:R:160:ILE:HG12	2:R:202:LEU:HD12	1.74	0.68
3:S:251:LEU:HD21	3:S:254:TRP:CZ3	2.20	0.68
3:V:122:PRO:CB	3:V:254:TRP:HB3	2.23	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:a:35:PRO:N	2:a:70:ARG:HH11	1.91	0.68
3:b:242:HIS:C	3:b:244:VAL:N	2.50	0.68
3:b:332:SER:OG	3:b:334:LEU:HD22	1.92	0.68
3:e:137:PRO:HB2	3:e:138:THR:HA	1.75	0.68
3:e:141:PRO:HB3	3:e:144:ALA:HB2	1.73	0.68
4:n:103:VAL:O	4:n:104:ARG:C	2.35	0.68
1:G:1166:PHE:HD2	2:Q:281:HIS:CD2	2.10	0.68
1:G:1182:ASP:CB	1:G:1309:VAL:HA	2.22	0.68
1:A:397:ALA:HB3	1:A:1321:VAL:HG22	1.73	0.68
1:C:267:ALA:CB	1:C:274:VAL:CB	2.48	0.68
1:D:1165:VAL:HG11	2:X:200:THR:HG23	1.74	0.68
1:E:626:VAL:HG12	1:E:878:MET:HG3	1.75	0.68
1:H:201:MET:HE1	1:H:1289:LEU:HB3	1.75	0.68
1:H:213:ARG:NH2	1:I:1308:ASP:OD2	2.26	0.68
1:H:296:GLU:OE2	1:H:367:LEU:N	2.26	0.68
1:J:279:VAL:CG2	1:J:1064:LEU:C	2.60	0.68
1:J:628:TYR:HB3	1:J:955:PHE:CZ	2.29	0.68
1:J:892:LEU:HG	4:o:65:GLY:HA2	1.74	0.68
1:L:756:ILE:HD12	1:L:756:ILE:C	2.19	0.68
1:M:1095:GLN:HE21	1:M:1097:ARG:HE	1.41	0.68
1:O:841:ASN:OD1	4:s:57:GLN:NE2	2.26	0.68
1:P:1279:ALA:HA	1:P:1282:ILE:HB	1.74	0.68
2:Q:160:ILE:HD12	2:Q:210:VAL:HG21	1.74	0.68
2:X:99:ASN:HB3	2:X:311:MET:CE	2.23	0.68
2:X:114:VAL:HB	2:X:295:VAL:HG12	1.74	0.68
2:Z:179:LEU:O	2:Z:179:LEU:HD23	1.93	0.68
3:b:38:ARG:HB3	3:b:43:ARG:HH12	1.58	0.68
2:c:69:ARG:O	2:c:69:ARG:HD3	1.94	0.68
3:e:119:LEU:HD22	3:e:189:PHE:CE2	2.28	0.68
3:e:314:PHE:O	3:e:420:ALA:HA	1.93	0.68
4:j:21:GLY:O	4:j:23:ARG:O	2.12	0.68
4:o:7:HIS:NE2	4:o:44:HIS:CE1	2.59	0.68
1:G:330:ASP:O	1:G:333:GLY:N	2.26	0.68
1:C:827:THR:OG1	1:C:958:LEU:O	2.10	0.68
1:F:960:VAL:HG12	1:F:994:LEU:HD13	1.74	0.68
1:H:293:LEU:HD11	1:H:370:ILE:HD11	1.74	0.68
1:J:736:VAL:O	1:J:934:HIS:O	2.11	0.68
1:J:1050:PHE:CD2	1:J:1187:PHE:HB3	2.28	0.68
1:K:430:PRO:O	1:K:432:PRO:HD3	1.92	0.68
1:L:67:LEU:HD11	1:L:170:GLN:HE21	1.58	0.68
1:M:32:HIS:HB3	1:M:35:LEU:HD13	1.75	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:730:ALA:HB2	1:M:750:ARG:HH12	1.57	0.68
1:N:454:MET:CE	1:N:1050:PHE:HD2	2.07	0.68
1:N:1164:PRO:HG2	1:N:1167:GLY:O	1.93	0.68
1:P:1095:GLN:HE21	1:P:1097:ARG:CZ	2.06	0.68
1:P:1198:TYR:OH	1:P:1204:ASN:O	2.07	0.68
2:X:264:ASP:CG	3:Y:150:PRO:HG3	2.17	0.68
3:Y:88:ASP:HA	3:Y:91:LEU:HG	1.75	0.68
4:g:35:ILE:CA	4:g:36:MET:SD	2.79	0.68
1:G:832:PHE:CD2	1:G:836:TYR:CE2	2.81	0.68
1:A:527:THR:HG21	1:A:1193:ALA:HB3	1.75	0.68
1:C:1057:ARG:O	1:C:1118:PRO:O	2.12	0.68
1:D:118:ASN:HD22	1:D:118:ASN:N	1.88	0.68
1:D:1221:ASP:OD1	1:D:1221:ASP:N	2.24	0.68
1:F:867:PRO:HG3	4:g:78:MET:O	1.94	0.68
1:F:1354:ARG:HH22	1:F:1357:HIS:HD2	1.41	0.68
1:H:892:LEU:HD21	4:m:65:GLY:HA2	1.73	0.68
1:I:463:HIS:CD2	1:I:464:PRO:CD	2.76	0.68
1:I:867:PRO:HB3	4:o:80:ALA:HB3	1.76	0.68
1:J:75:LEU:HD12	1:J:277:VAL:HG21	1.75	0.68
1:J:717:GLN:CD	1:J:750:ARG:HH11	1.93	0.68
1:K:558:LEU:O	1:K:560:GLY:N	2.26	0.68
1:K:1056:ASP:CG	1:K:1120:THR:HG21	2.17	0.68
1:M:558:LEU:O	1:M:560:GLY:N	2.24	0.68
1:P:267:ALA:HB1	1:P:274:VAL:CB	2.22	0.68
1:P:1328:PHE:HB3	1:P:1330:GLU:OE1	1.93	0.68
3:V:251:LEU:HD21	3:V:254:TRP:CZ3	2.20	0.68
2:W:33:PHE:HE1	2:W:140:PRO:HG3	1.59	0.68
3:b:292:ALA:HB1	3:b:295:ASP:CB	1.85	0.68
4:i:9:PRO:C	4:i:17:VAL:CB	2.67	0.68
4:k:7:HIS:CE1	4:k:44:HIS:ND1	2.59	0.68
1:G:84:PHE:HB3	1:G:87:LEU:HD23	1.74	0.68
1:A:756:ILE:CD1	1:A:906:THR:HG22	2.22	0.68
1:B:1054:ARG:NH2	1:B:1123:GLY:N	1.82	0.68
1:D:34:ARG:C	1:L:1291:ARG:HH21	2.01	0.68
1:D:538:ASN:O	1:D:541:LEU:N	2.23	0.68
1:D:917:GLY:O	1:D:1138:LEU:HD22	1.94	0.68
1:E:404:LEU:HB3	1:E:440:LEU:HD21	1.75	0.68
1:F:521:VAL:O	1:F:523:GLU:N	2.26	0.68
1:F:558:LEU:O	1:F:560:GLY:N	2.26	0.68
1:H:269:THR:OG1	1:H:300:ALA:HB3	1.94	0.68
1:H:957:VAL:O	1:H:958:LEU:C	2.37	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:1301:SER:HB3	1:H:1319:GLU:HG2	1.75	0.68
1:N:94:ARG:CG	1:N:123:VAL:HG22	2.23	0.68
1:O:463:HIS:ND1	1:O:465:SER:OG	2.26	0.68
1:O:837:ALA:HA	4:s:54:LEU:HD22	1.71	0.68
1:P:135:LEU:HB3	1:P:140:ILE:CG2	2.23	0.68
2:Q:69:ARG:O	2:Q:69:ARG:HD3	1.94	0.68
3:S:288:ILE:CG2	3:S:457:TRP:CH2	2.73	0.68
3:S:339:LEU:HD23	3:S:422:PHE:CZ	2.23	0.68
2:W:295:VAL:HG12	2:W:314:VAL:CG1	2.22	0.68
2:Z:100:LEU:CG	2:Z:314:VAL:HG21	2.23	0.68
2:Z:219:LEU:O	2:Z:222:THR:HG23	1.93	0.68
2:Z:279:LEU:HD22	2:a:153:ALA:HB2	1.74	0.68
2:c:33:PHE:HE1	2:c:140:PRO:HG3	1.59	0.68
2:c:186:LEU:HD12	2:c:187:SER:H	1.58	0.68
4:o:107:LYS:HG2	4:o:108:THR:N	2.07	0.68
1:G:628:TYR:HB3	1:G:955:PHE:CZ	2.28	0.68
1:G:905:THR:HA	1:G:935:ALA:HB3	1.74	0.68
1:G:1279:ALA:O	1:G:1283:THR:N	2.25	0.68
1:D:1200:ARG:NH2	1:D:1355:GLU:OE2	2.27	0.68
1:E:714:LEU:HB2	1:E:722:LEU:HD11	1.74	0.68
1:E:1134:GLY:HA3	1:E:1263:LEU:HA	1.76	0.68
1:H:447:HIS:O	1:H:448:GLN:HB3	1.92	0.68
1:H:1225:LEU:HD23	1:I:1176:GLY:HA3	1.76	0.68
1:I:266:HIS:HB2	1:I:304:VAL:H	1.58	0.68
1:I:1181:GLN:HE21	1:I:1310:GLN:HA	1.59	0.68
1:I:1208:ARG:NH2	1:I:1240:ALA:O	2.26	0.68
1:K:280:THR:HG22	1:K:281:THR:H	1.58	0.68
1:K:919:ASN:ND2	1:K:1139:LEU:HD12	2.08	0.68
1:L:837:ALA:CA	4:q:54:LEU:CD2	2.47	0.68
1:M:451:ARG:O	1:M:1124:ASN:ND2	2.24	0.68
1:M:814:TYR:O	1:M:818:PRO:HG2	1.93	0.68
1:M:1115:VAL:CG1	1:M:1374:LEU:HD22	2.22	0.68
1:N:520:TRP:CE3	1:N:1004:GLN:HG2	2.29	0.68
1:N:758:ALA:HB2	1:N:904:ARG:NH2	1.90	0.68
1:O:429:HIS:HB3	1:O:430:PRO:CD	2.24	0.68
2:T:33:PHE:HE1	2:T:140:PRO:HG3	1.59	0.68
3:V:198:TYR:CE1	3:V:294:VAL:CG1	2.77	0.68
2:W:268:ARG:NH1	2:X:164:ASN:CB	2.50	0.68
3:e:421:ALA:HA	3:e:464:ALA:HB2	1.75	0.68
3:e:437:HIS:HB2	3:e:449:VAL:CG1	2.24	0.68
4:j:46:THR:CG2	4:j:50:VAL:HG13	2.11	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:505:PHE:CD1	1:G:509:TRP:HD1	2.08	0.68
1:A:357:ALA:C	1:A:359:GLN:CD	2.61	0.68
1:B:83:LYS:HE3	1:B:305:THR:OG1	1.94	0.68
1:C:501:MET:HE2	1:C:958:LEU:HD11	1.76	0.68
1:D:255:THR:HG21	1:D:1108:ALA:O	1.94	0.68
1:H:867:PRO:HB3	4:n:80:ALA:CB	2.23	0.68
1:H:918:ALA:HB2	1:H:1032:SER:CB	2.24	0.68
1:I:829:GLY:HA3	1:I:956:TYR:CZ	2.28	0.68
1:I:873:ASN:HD21	4:o:92:PHE:CB	2.06	0.68
1:J:186:HIS:HA	1:J:189:LEU:HB2	1.75	0.68
1:J:1056:ASP:HA	1:J:1120:THR:HG21	1.76	0.68
1:K:128:ALA:O	1:P:107:ASP:CB	2.41	0.68
1:K:837:ALA:HB2	4:p:54:LEU:HD11	1.75	0.68
1:K:884:VAL:HG12	1:K:886:VAL:HG23	1.74	0.68
1:M:47:ASN:ND2	3:Y:276:THR:HG21	2.03	0.68
1:M:1241:THR:HG21	1:M:1247:SER:HG	1.57	0.68
1:O:294:LYS:C	1:O:296:GLU:H	2.01	0.68
1:P:191:LYS:O	1:P:191:LYS:HG3	1.93	0.68
1:P:759:GLY:C	1:P:780:ASP:O	2.36	0.68
1:P:1118:PRO:O	1:P:1119:VAL:HB	1.92	0.68
2:Q:279:LEU:HD22	2:R:153:ALA:HB2	1.74	0.68
2:R:125:ALA:C	2:R:126:THR:HG23	2.19	0.68
3:S:122:PRO:CB	3:S:254:TRP:HB3	2.23	0.68
2:T:106:VAL:CG1	2:T:305:VAL:HG12	2.21	0.68
2:W:227:LEU:HD12	2:W:228:LEU:HD11	1.67	0.68
3:Y:272:GLU:O	3:Y:276:THR:HG22	1.94	0.68
3:Y:321:ASP:O	3:Y:322:GLN:HB2	1.91	0.68
2:a:37:ILE:HG23	2:a:71:PHE:CG	2.29	0.68
3:b:206:ALA:C	3:b:447:VAL:CG1	2.67	0.68
3:e:137:PRO:N	3:e:138:THR:HB	2.08	0.68
4:n:7:HIS:NE2	4:n:44:HIS:CE1	2.59	0.68
1:C:145:GLY:HA2	1:C:148:LEU:HD13	1.76	0.68
1:C:841:ASN:OD1	4:i:26:VAL:HG22	1.93	0.68
1:E:339:MET:HE3	1:F:159:LEU:HD23	1.75	0.68
1:I:266:HIS:HA	1:I:303:PRO:HA	1.76	0.68
1:I:339:MET:HE1	1:L:17:MET:HG2	1.75	0.68
1:J:452:LEU:HD11	1:J:1052:VAL:HG11	1.75	0.68
1:J:512:ARG:HH22	1:J:563:VAL:HG11	1.56	0.68
1:J:614:VAL:HG21	1:J:693:LEU:HB2	1.75	0.68
1:J:1045:HIS:HD2	1:J:1047:GLY:N	1.87	0.68
1:K:269:THR:HB	1:K:272:ARG:CG	2.24	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:842:MET:CG	4:p:61:LEU:CD2	2.72	0.68
1:N:348:ARG:HE	1:O:170:GLN:HE22	1.40	0.68
1:N:534:PRO:CD	1:N:1230:GLY:C	2.66	0.68
1:P:740:ASP:OD1	1:P:785:HIS:CE1	2.47	0.68
1:P:752:ARG:NH1	1:P:913:ALA:HB1	1.85	0.68
2:Q:33:PHE:HE1	2:Q:140:PRO:HG3	1.58	0.68
2:T:279:LEU:HD22	2:U:153:ALA:HB2	1.74	0.68
3:V:80:ARG:HA	3:V:83:THR:CG2	2.24	0.68
3:V:207:VAL:HG22	3:V:447:VAL:CG1	2.23	0.68
3:Y:122:PRO:CB	3:Y:254:TRP:HB3	2.23	0.68
3:b:313:VAL:HG23	3:b:330:VAL:HG12	1.76	0.68
4:g:7:HIS:NE2	4:g:44:HIS:CE1	2.59	0.68
4:m:7:HIS:NE2	4:m:44:HIS:CE1	2.59	0.68
4:o:95:LYS:O	4:o:96:ARG:CB	2.42	0.68
4:p:1:MET:H2	4:p:5:GLN:CB	2.06	0.68
1:G:890:ALA:O	1:G:893:THR:OG1	2.10	0.68
1:A:142:LEU:O	1:A:144:THR:N	2.27	0.68
1:A:388:THR:HG22	1:F:102:PRO:O	1.94	0.68
1:B:487:TYR:HE1	1:B:505:PHE:HZ	1.42	0.68
1:C:606:MET:HB2	1:C:1018:ASN:HD21	1.58	0.68
1:C:1059:VAL:HG23	1:C:1119:VAL:HG21	1.74	0.68
1:C:1205:PRO:HD3	1:C:1331:ALA:HB2	1.75	0.68
1:D:749:ASP:O	1:D:752:ARG:NH2	2.19	0.68
1:E:1054:ARG:NH1	1:E:1122:MET:C	2.52	0.68
1:F:1119:VAL:HG12	1:F:1119:VAL:O	1.94	0.68
1:H:488:GLY:HA3	1:H:520:TRP:CZ3	2.28	0.68
1:I:321:VAL:HG23	1:J:15:ALA:HB2	1.76	0.68
1:I:509:TRP:HZ2	1:I:564:PRO:HD3	1.59	0.68
1:J:186:HIS:O	1:J:189:LEU:N	2.27	0.68
1:J:400:LEU:HD23	1:J:1369:LEU:HD23	1.76	0.68
1:K:867:PRO:HB3	4:q:80:ALA:CB	2.21	0.68
1:L:534:PRO:CB	1:M:1154:GLY:HA3	2.23	0.68
1:N:202:GLN:HG2	1:N:202:GLN:O	1.94	0.68
1:N:544:HIS:ND1	1:N:1252:TYR:HB2	2.09	0.68
1:N:889:PRO:CD	4:r:69:ALA:CB	2.71	0.68
1:N:1163:LEU:HD23	1:N:1169:ALA:HA	1.75	0.68
1:O:766:ALA:CB	1:O:784:LEU:CD2	2.64	0.68
2:W:33:PHE:HB2	2:W:70:ARG:HD2	1.75	0.68
2:X:264:ASP:CB	3:Y:150:PRO:HG3	2.23	0.68
3:b:301:CYS:SG	3:b:302:LEU:HD23	2.34	0.68
3:b:322:GLN:N	3:b:322:GLN:HE21	1.91	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:c:279:LEU:HD22	2:d:153:ALA:HB2	1.74	0.68
4:i:22:MET:HE2	4:i:60:ALA:HB3	1.51	0.68
4:t:1:MET:H3	4:t:5:GLN:CB	2.07	0.68
1:G:751:HIS:HE1	1:G:754:CYS:CB	2.04	0.68
1:A:534:PRO:CA	1:B:1154:GLY:HA3	2.23	0.68
1:B:534:PRO:CB	1:C:1154:GLY:C	2.66	0.68
1:C:918:ALA:HB2	1:C:1032:SER:CB	2.22	0.68
1:E:1056:ASP:OD1	1:E:1120:THR:CG2	2.42	0.68
1:F:945:LEU:O	1:F:946:ASP:HB3	1.92	0.68
1:H:293:LEU:HD11	1:H:370:ILE:CD1	2.24	0.68
1:H:1197:ASN:N	1:H:1197:ASN:HD22	1.91	0.68
1:I:304:VAL:HG23	1:I:305:THR:N	2.09	0.68
1:I:525:GLN:HE22	1:I:536:ASN:N	1.92	0.68
1:J:70:PHE:HE1	1:J:75:LEU:HD23	1.58	0.68
1:J:399:ASP:O	1:J:1324:PRO:CG	2.41	0.68
1:J:487:TYR:HD2	1:J:520:TRP:CZ2	2.12	0.68
1:J:842:MET:CE	4:o:61:LEU:HD13	2.24	0.68
1:K:106:ARG:HD3	1:K:110:HIS:NE2	2.09	0.68
1:K:141:ALA:O	1:K:146:GLU:N	2.27	0.68
1:K:433:ARG:NH1	1:P:416:PHE:CD2	2.62	0.68
1:O:94:ARG:NH1	1:O:123:VAL:HG22	2.09	0.68
1:P:331:ASP:OD1	1:P:334:ARG:NH1	2.27	0.68
1:P:512:ARG:NH2	1:P:564:PRO:CG	2.35	0.68
2:X:93:THR:HA	2:X:316:ARG:NH2	2.09	0.68
3:Y:141:PRO:HB3	3:Y:144:ALA:HB2	1.74	0.68
3:Y:287:THR:CB	3:Y:289:PRO:HD3	2.23	0.68
3:b:112:ARG:HG2	3:b:112:ARG:HH21	1.59	0.68
3:b:289:PRO:HB3	3:b:451:ILE:CG2	2.22	0.68
4:l:15:ASP:CB	4:l:28:ALA:C	2.67	0.68
4:s:95:LYS:O	4:s:96:ARG:HB3	1.92	0.68
1:G:822:ARG:NE	1:G:1020:LEU:CD2	2.57	0.67
1:A:1221:ASP:OD1	1:A:1222:VAL:N	2.27	0.67
1:A:1288:CYS:O	1:A:1292:LEU:HB2	1.94	0.67
1:B:1312:LYS:NZ	3:S:176:GLU:OE2	2.22	0.67
1:C:756:ILE:HD12	1:C:757:ASP:N	2.08	0.67
1:F:714:LEU:HB2	1:F:722:LEU:HD11	1.76	0.67
1:F:833:ASP:OD1	1:F:834:ARG:N	2.26	0.67
1:I:252:THR:HG22	1:I:373:ARG:CD	2.23	0.67
1:J:652:ILE:CD1	1:J:674:ILE:HG12	2.24	0.67
1:K:883:ARG:NH1	1:L:681:ASP:HB3	2.08	0.67
1:K:1225:LEU:HD12	1:L:1176:GLY:CA	2.23	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:202:GLN:HE21	1:L:205:LEU:HD22	1.60	0.67
1:L:904:ARG:HH12	1:L:906:THR:HG23	1.57	0.67
1:L:1165:VAL:HG11	3:Y:158:ALA:HB1	1.74	0.67
1:L:1213:VAL:HG21	1:L:1327:LEU:HD23	1.75	0.67
1:M:737:TRP:CZ3	1:M:935:ALA:HB1	2.29	0.67
1:O:914:PRO:HB3	1:O:918:ALA:CB	2.24	0.67
1:P:193:PRO:HG2	1:P:198:LEU:HD12	1.75	0.67
2:Q:295:VAL:HG12	2:Q:314:VAL:CG1	2.22	0.67
2:R:68:ARG:NH2	2:R:288:ILE:O	2.18	0.67
3:S:417:CYS:C	3:S:418:THR:CG2	2.48	0.67
2:T:180:TYR:CD2	2:T:185:ARG:CA	2.77	0.67
2:a:156:VAL:O	2:a:160:ILE:HD11	1.94	0.67
4:o:20:LEU:HD13	4:o:20:LEU:C	2.19	0.67
4:p:15:ASP:CB	4:p:28:ALA:C	2.67	0.67
4:q:15:ASP:CB	4:q:28:ALA:C	2.67	0.67
1:G:982:ASP:OD1	1:G:985:ARG:NH1	2.27	0.67
1:G:1182:ASP:CG	1:G:1309:VAL:HG22	2.18	0.67
1:A:86:GLU:HA	1:A:89:TYR:CE2	2.29	0.67
1:A:112:VAL:HG11	1:B:131:ALA:O	1.92	0.67
1:B:534:PRO:HB2	1:C:1154:GLY:H	1.59	0.67
1:C:1191:PRO:O	1:C:1194:THR:HG23	1.93	0.67
1:D:93:GLY:C	1:D:124:ILE:HG13	2.19	0.67
1:F:248:LEU:HB3	1:F:370:ILE:HD13	1.76	0.67
1:I:621:ARG:NH2	1:J:698:GLU:OE2	2.27	0.67
1:J:604:HIS:O	1:J:1022:TYR:OH	2.12	0.67
1:K:1062:ASN:OD1	1:K:1062:ASN:N	2.25	0.67
1:L:303:PRO:O	1:L:360:THR:HG23	1.93	0.67
1:M:27:ILE:C	1:M:27:ILE:HD12	2.19	0.67
1:M:417:ALA:HB2	1:M:1358:PHE:HE1	1.53	0.67
1:N:638:GLU:OE2	1:N:677:TYR:OH	2.10	0.67
3:S:122:PRO:HB3	3:S:254:TRP:HB3	1.76	0.67
3:S:242:HIS:C	3:S:244:VAL:N	2.50	0.67
3:S:335:PRO:O	3:S:337:ARG:N	2.27	0.67
2:W:69:ARG:O	2:W:69:ARG:HD3	1.94	0.67
2:X:68:ARG:NH2	2:X:288:ILE:O	2.18	0.67
2:a:133:LEU:H	2:a:133:LEU:HD22	1.60	0.67
3:b:197:ALA:HB3	3:b:324:LEU:CD1	2.23	0.67
3:b:269:GLY:O	3:b:457:TRP:CD1	2.47	0.67
3:b:279:PRO:HB3	3:b:283:CYS:CA	2.25	0.67
4:k:44:HIS:NE2	4:k:50:VAL:HG13	2.09	0.67
4:n:15:ASP:CB	4:n:28:ALA:C	2.67	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:s:15:ASP:O	4:s:28:ALA:CB	2.42	0.67
1:G:78:ALA:O	1:G:1070:SER:N	2.27	0.67
1:G:526:MET:O	1:G:529:GLU:HB2	1.95	0.67
1:G:1165:VAL:CG2	2:R:240:LEU:CA	2.72	0.67
1:A:490:TYR:OH	1:A:561:GLY:HA3	1.94	0.67
1:A:543:LEU:O	1:A:1251:SER:O	2.11	0.67
1:B:1080:VAL:CG1	1:B:1091:PHE:C	2.67	0.67
1:F:780:ASP:OD1	1:F:782:ARG:CG	2.40	0.67
1:H:124:ILE:HA	1:H:1100:VAL:HG21	1.76	0.67
1:H:417:ALA:HB2	1:H:1358:PHE:HE1	1.58	0.67
1:I:847:ILE:HG21	4:n:71:ASN:N	2.09	0.67
1:J:73:LEU:O	1:J:76:SER:OG	2.07	0.67
1:J:842:MET:HE1	1:J:894:LEU:HD23	1.76	0.67
1:K:1175:ALA:HA	1:P:1218:LYS:NZ	2.09	0.67
1:L:879:PHE:O	1:L:882:GLY:O	2.11	0.67
1:N:189:LEU:HD11	1:N:1064:LEU:HD23	1.75	0.67
1:N:841:ASN:CG	4:r:57:GLN:NE2	2.52	0.67
1:O:277:VAL:O	1:O:376:PHE:O	2.12	0.67
1:P:248:LEU:CD2	1:P:293:LEU:HD23	2.24	0.67
3:S:272:GLU:O	3:S:276:THR:HG22	1.94	0.67
3:Y:421:ALA:HA	3:Y:464:ALA:CB	2.11	0.67
2:c:106:VAL:CG1	2:c:305:VAL:HG12	2.23	0.67
4:f:15:ASP:CB	4:f:28:ALA:C	2.67	0.67
4:j:9:PRO:C	4:j:17:VAL:CB	2.66	0.67
4:k:7:HIS:NE2	4:k:44:HIS:CE1	2.59	0.67
4:r:44:HIS:CB	4:r:47:GLN:O	2.42	0.67
4:s:10:SER:C	4:s:17:VAL:CB	2.67	0.67
1:G:322:MET:HE2	1:G:322:MET:N	2.09	0.67
1:G:1196:ILE:HG21	1:G:1361:TYR:CD1	2.29	0.67
1:A:77:VAL:CG2	1:A:376:PHE:HD2	2.07	0.67
1:A:269:THR:HB	1:A:362:ARG:NH1	2.09	0.67
1:B:153:ILE:O	1:B:157:ARG:HB2	1.94	0.67
1:B:638:GLU:OE1	1:B:801:ARG:NH2	2.27	0.67
1:B:665:VAL:O	1:B:812:TYR:OH	2.11	0.67
1:B:1278:THR:O	1:B:1278:THR:CG2	2.43	0.67
1:C:65:LEU:O	1:C:65:LEU:HD12	1.95	0.67
1:C:114:GLN:NE2	1:M:43:ARG:HD3	2.09	0.67
1:C:278:LEU:HD13	1:C:375:VAL:HG11	1.77	0.67
1:D:365:ALA:HB1	1:D:376:PHE:CE1	2.29	0.67
1:F:494:PRO:HB2	1:F:757:ASP:CB	2.24	0.67
1:H:301:ASP:C	1:H:303:PRO:HD3	2.12	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:536:ASN:C	1:H:538:ASN:N	2.51	0.67
1:I:785:HIS:CD2	1:I:800:HIS:NE2	2.63	0.67
1:J:91:ASN:O	1:J:92:GLU:HB2	1.93	0.67
1:L:804:ASP:HB3	1:L:808:HIS:CE1	2.30	0.67
1:L:1078:LEU:HD23	1:L:1094:THR:O	1.94	0.67
1:P:295:VAL:C	1:P:297:ASP:N	2.51	0.67
1:P:589:VAL:HG13	1:P:1009:HIS:HD2	1.60	0.67
2:Q:116:LEU:HD13	2:Q:120:VAL:HG11	1.76	0.67
3:S:348:GLY:O	3:S:351:ARG:HD2	1.95	0.67
2:W:116:LEU:HD13	2:W:120:VAL:HG11	1.76	0.67
2:Z:33:PHE:HE1	2:Z:140:PRO:HG3	1.59	0.67
2:Z:69:ARG:HD3	2:Z:69:ARG:O	1.94	0.67
2:Z:106:VAL:CG1	2:Z:305:VAL:HG12	2.21	0.67
2:Z:295:VAL:CG1	2:Z:314:VAL:HG13	2.25	0.67
2:c:295:VAL:HG12	2:c:314:VAL:CG1	2.22	0.67
4:j:44:HIS:NE2	4:j:50:VAL:HG13	2.09	0.67
4:s:35:ILE:CA	4:s:36:MET:SD	2.79	0.67
4:t:15:ASP:CB	4:t:28:ALA:C	2.67	0.67
1:A:367:LEU:HD12	1:A:374:LEU:CD1	2.24	0.67
1:C:756:ILE:HD12	1:C:907:ALA:O	1.94	0.67
1:D:461:VAL:HG11	1:D:1036:LEU:HD23	1.76	0.67
1:F:443:TRP:CZ2	1:F:1347:ARG:HG3	2.29	0.67
1:F:675:VAL:HA	1:F:687:MET:HE1	1.75	0.67
1:H:456:ASN:OD1	1:H:1126:PRO:HB3	1.95	0.67
1:H:840:GLN:NE2	4:m:58:ALA:CB	2.46	0.67
1:I:558:LEU:O	1:I:560:GLY:N	2.28	0.67
1:I:873:ASN:CG	4:o:92:PHE:CB	2.68	0.67
1:J:1075:LEU:HD12	1:J:1095:GLN:HE22	1.58	0.67
1:K:946:ASP:HB3	1:L:676:THR:CG2	2.25	0.67
1:K:1073:TYR:CZ	1:K:1097:ARG:HD3	2.29	0.67
1:L:1160:ALA:C	1:L:1161:GLN:HG3	2.19	0.67
1:M:581:ASN:HD21	1:M:1003:ARG:H	1.41	0.67
1:N:425:PRO:CG	1:N:431:GLU:OE1	2.42	0.67
1:N:766:ALA:HB3	1:N:784:LEU:HA	1.75	0.67
1:N:1078:LEU:N	3:V:82:ASP:OD2	2.28	0.67
1:P:1131:LEU:HD23	1:P:1159:PRO:HG3	1.77	0.67
2:Q:147:LEU:CD1	2:Q:181:TYR:CG	2.77	0.67
2:R:236:TYR:C	2:R:238:ASN:N	2.49	0.67
3:Y:209:ALA:O	3:Y:445:VAL:HG21	1.93	0.67
3:Y:300:LEU:CG	3:Y:332:SER:CA	2.73	0.67
2:a:75:ILE:HD12	2:a:75:ILE:N	2.10	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:d:5:CYS:SG	2:d:94:HIS:CE1	2.88	0.67
3:e:272:GLU:O	3:e:276:THR:HG22	1.94	0.67
4:g:15:ASP:CB	4:g:28:ALA:C	2.67	0.67
4:j:1:MET:H3	4:j:5:GLN:HB2	1.58	0.67
4:k:1:MET:H3	4:k:5:GLN:CB	2.07	0.67
4:s:7:HIS:CE1	4:s:44:HIS:ND1	2.59	0.67
1:G:295:VAL:HG12	1:G:296:GLU:H	1.58	0.67
1:C:213:ARG:HH22	1:D:1173:ARG:NH1	1.92	0.67
1:D:1210:ALA:HB3	1:D:1329:GLN:NE2	2.10	0.67
1:E:1058:PHE:HZ	1:E:1122:MET:CE	2.07	0.67
1:F:740:ASP:OD1	1:F:785:HIS:HE1	1.76	0.67
1:F:840:GLN:NE2	4:l:58:ALA:HB2	2.10	0.67
1:J:811:ILE:O	1:J:816:LEU:N	2.28	0.67
1:J:1300:VAL:CG1	1:J:1318:ARG:CD	2.71	0.67
1:K:135:LEU:CD1	1:K:1091:PHE:HE2	2.07	0.67
1:N:814:TYR:O	1:N:818:PRO:HG2	1.95	0.67
1:N:1078:LEU:HD12	3:V:86:ALA:HB2	1.77	0.67
1:O:191:LYS:HG3	1:O:191:LYS:O	1.93	0.67
1:P:377:LEU:O	1:P:378:GLU:HB2	1.93	0.67
3:V:335:PRO:O	3:V:337:ARG:N	2.27	0.67
3:Y:279:PRO:HA	3:Y:285:ALA:O	1.95	0.67
3:b:76:THR:CB	3:b:80:ARG:CB	2.73	0.67
4:j:15:ASP:CB	4:j:28:ALA:C	2.67	0.67
4:k:15:ASP:CB	4:k:28:ALA:C	2.67	0.67
4:t:44:HIS:NE2	4:t:50:VAL:HG13	2.09	0.67
1:A:1201:ARG:HH22	1:B:1179:HIS:HE1	1.43	0.67
1:D:873:ASN:CG	4:k:92:PHE:CB	2.68	0.67
1:E:417:ALA:HB2	1:E:1358:PHE:CE1	2.30	0.67
1:H:423:LEU:HD13	1:H:433:ARG:HH22	1.59	0.67
1:J:304:VAL:HG22	1:J:305:THR:N	2.09	0.67
1:J:400:LEU:CD2	1:J:1368:PRO:CG	2.73	0.67
1:J:401:THR:OG1	1:J:1055:GLN:CA	2.43	0.67
1:J:743:MET:HE1	1:J:796:ASP:C	2.19	0.67
1:K:183:GLN:NE2	1:K:1097:ARG:HD2	2.10	0.67
1:K:1134:GLY:C	1:K:1263:LEU:HD22	2.20	0.67
1:L:140:ILE:HD11	1:L:1089:VAL:CG2	2.25	0.67
1:L:742:LEU:HD23	1:L:746:ALA:HB2	1.75	0.67
1:M:135:LEU:HD21	1:M:165:LEU:HD13	1.76	0.67
1:M:147:ALA:O	1:M:148:LEU:HD12	1.95	0.67
1:M:604:HIS:HD2	1:M:696:HIS:HD2	1.41	0.67
1:P:532:MET:HG3	1:P:534:PRO:CD	2.24	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U:93:THR:HA	2:U:316:ARG:NH2	2.09	0.67
3:V:287:THR:CB	3:V:289:PRO:HD3	2.23	0.67
2:X:5:CYS:SG	2:X:94:HIS:CE1	2.88	0.67
2:X:13:PRO:CG	2:X:133:LEU:HD13	2.24	0.67
3:Y:112:ARG:CZ	3:Y:262:SER:HB2	2.19	0.67
3:Y:159:GLU:O	3:Y:163:GLN:HB2	1.95	0.67
3:Y:255:VAL:HB	3:Y:262:SER:OG	1.95	0.67
3:Y:335:PRO:O	3:Y:337:ARG:N	2.27	0.67
2:Z:160:ILE:HD12	2:Z:210:VAL:HG22	1.72	0.67
2:d:68:ARG:NH2	2:d:288:ILE:O	2.18	0.67
4:f:35:ILE:CA	4:f:36:MET:SD	2.79	0.67
4:p:7:HIS:CE1	4:p:44:HIS:ND1	2.59	0.67
1:G:227:PHE:O	1:G:231:SER:HB2	1.94	0.67
1:G:556:VAL:CG1	1:G:565:PRO:HG2	2.24	0.67
1:H:544:HIS:CD2	1:H:546:ALA:H	2.13	0.67
1:H:840:GLN:CD	4:m:58:ALA:HB2	2.19	0.67
1:H:872:ALA:H	4:n:107:LYS:HZ1	1.42	0.67
1:J:367:LEU:HD23	1:J:376:PHE:HD1	1.60	0.67
1:J:470:ASP:OD1	1:J:471:ALA:N	2.27	0.67
1:J:529:GLU:O	1:J:532:MET:CE	2.42	0.67
1:J:815:VAL:HG21	1:J:1025:MET:SD	2.35	0.67
1:J:842:MET:HE3	4:o:61:LEU:HD13	1.76	0.67
1:J:1271:SER:C	1:J:1273:CYS:H	2.03	0.67
1:K:531:PHE:CE1	1:K:1244:PRO:HD3	2.29	0.67
1:L:477:ASN:OD1	1:L:571:ILE:O	2.13	0.67
1:M:883:ARG:HH21	4:r:88:LEU:HD12	1.60	0.67
1:O:842:MET:CE	4:s:61:LEU:HD13	2.24	0.67
1:O:946:ASP:O	1:O:947:HIS:CD2	2.47	0.67
2:T:69:ARG:O	2:T:69:ARG:HD3	1.94	0.67
2:T:116:LEU:HD13	2:T:120:VAL:HG11	1.76	0.67
3:V:349:ARG:CZ	3:V:351:ARG:HH12	2.08	0.67
3:Y:434:ARG:HH21	3:Y:434:ARG:HG3	1.58	0.67
4:i:44:HIS:CB	4:i:47:GLN:O	2.42	0.67
4:m:15:ASP:CB	4:m:28:ALA:C	2.67	0.67
4:p:46:THR:HG1	4:p:50:VAL:HG12	1.58	0.67
1:G:1049:GLY:O	1:G:1190:THR:N	2.27	0.67
1:A:248:LEU:O	1:A:252:THR:N	2.27	0.67
1:A:359:GLN:OE1	1:A:359:GLN:N	2.28	0.67
1:C:953:GLU:HG3	1:C:954:TYR:H	1.60	0.67
1:I:1131:LEU:HD23	1:I:1159:PRO:HG3	1.77	0.67
1:J:241:ARG:HA	1:J:292:PHE:CE1	2.30	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:298:THR:O	1:J:299:GLU:C	2.38	0.67
1:J:401:THR:HG22	1:J:1325:CYS:SG	2.35	0.67
1:M:413:MET:CG	1:N:1340:PRO:HD2	2.24	0.67
1:P:759:GLY:HA2	1:P:780:ASP:HA	1.76	0.67
3:S:120:CYS:HB2	3:S:184:LEU:O	1.95	0.67
3:Y:315:THR:CG2	3:Y:347:PHE:CZ	2.77	0.67
3:Y:437:HIS:CB	3:Y:449:VAL:HG12	2.25	0.67
3:b:191:VAL:HG11	3:b:291:CYS:SG	2.35	0.67
4:h:15:ASP:CB	4:h:28:ALA:C	2.67	0.67
4:i:15:ASP:CB	4:i:28:ALA:C	2.67	0.67
4:m:44:HIS:CB	4:m:47:GLN:O	2.42	0.67
4:n:1:MET:H3	4:n:5:GLN:CB	2.08	0.67
1:G:494:PRO:CD	1:G:755:ARG:NH1	2.56	0.67
1:G:1161:GLN:HG3	2:R:180:TYR:HD1	1.59	0.67
1:G:1221:ASP:O	1:G:1225:LEU:N	2.27	0.67
1:B:65:LEU:HD12	1:B:65:LEU:C	2.20	0.67
1:C:124:ILE:CG1	1:C:1100:VAL:CG2	2.73	0.67
1:C:750:ARG:O	1:C:752:ARG:NH2	2.27	0.67
1:D:36:PHE:CD1	1:L:120:MET:SD	2.86	0.67
1:E:944:HIS:CD2	1:E:945:LEU:HD13	2.30	0.67
1:F:841:ASN:OD1	4:l:26:VAL:HG22	1.95	0.67
1:I:892:LEU:CG	4:n:65:GLY:HA2	2.25	0.67
1:J:1206:ARG:NH2	1:J:1247:SER:O	2.28	0.67
1:K:1201:ARG:NH1	1:L:448:GLN:NE2	2.42	0.67
1:L:1277:PHE:O	1:L:1278:THR:CB	2.43	0.67
1:M:408:LEU:CD1	1:M:1194:THR:OG1	2.43	0.67
1:N:758:ALA:O	1:N:779:ASN:C	2.37	0.67
3:S:255:VAL:HB	3:S:262:SER:OG	1.95	0.67
3:V:120:CYS:HB2	3:V:184:LEU:O	1.95	0.67
3:b:284:SER:O	3:b:285:ALA:HB2	1.94	0.67
2:d:93:THR:HA	2:d:316:ARG:NH2	2.09	0.67
4:i:46:THR:CG2	4:i:50:VAL:HG13	2.11	0.67
4:l:10:SER:H	4:l:17:VAL:CB	2.08	0.67
4:o:15:ASP:CB	4:o:28:ALA:C	2.67	0.67
4:r:15:ASP:CB	4:r:28:ALA:C	2.67	0.67
1:B:714:LEU:HB2	1:B:722:LEU:HD11	1.76	0.66
1:C:1265:GLY:HA2	1:C:1312:LYS:HE2	1.76	0.66
1:D:445:LYS:CD	1:D:1118:PRO:HG2	2.25	0.66
1:D:742:LEU:HD23	1:D:746:ALA:HB2	1.77	0.66
1:F:840:GLN:OE1	4:l:58:ALA:HB2	1.95	0.66
1:F:1029:PHE:HB3	1:F:1039:GLN:NE2	2.09	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:394:LEU:O	1:J:1062:ASN:HB2	1.95	0.66
1:J:575:TRP:CH2	1:J:918:ALA:CB	2.77	0.66
1:J:1029:PHE:CB	1:J:1039:GLN:HE21	2.07	0.66
1:K:82:THR:HA	1:K:307:GLY:O	1.95	0.66
1:L:274:VAL:CG2	1:L:374:LEU:CD2	2.71	0.66
1:M:764:VAL:HG13	1:M:782:ARG:HE	1.61	0.66
1:M:1037:TYR:CZ	1:M:1147:LEU:HD11	2.29	0.66
1:N:293:LEU:HG	1:N:368:VAL:HG11	1.77	0.66
1:N:847:ILE:HG21	4:r:70:ASN:C	2.19	0.66
1:P:696:HIS:HE1	1:P:1021:THR:HG21	1.60	0.66
2:T:177:ASN:CG	2:T:189:VAL:CG2	2.66	0.66
2:T:295:VAL:HG12	2:T:314:VAL:CG1	2.22	0.66
3:V:272:GLU:O	3:V:276:THR:HG22	1.94	0.66
2:X:164:ASN:N	2:X:165:PRO:HA	2.07	0.66
2:a:96:GLY:HA2	2:a:300:PHE:CZ	2.30	0.66
3:b:124:ALA:CB	3:b:214:ASN:O	2.39	0.66
4:q:44:HIS:NE2	4:q:50:VAL:HG13	2.09	0.66
4:q:44:HIS:CB	4:q:47:GLN:O	2.42	0.66
4:r:44:HIS:NE2	4:r:50:VAL:HG13	2.09	0.66
4:t:7:HIS:CE1	4:t:44:HIS:ND1	2.59	0.66
1:B:133:PHE:HE2	1:B:135:LEU:HB2	1.60	0.66
1:B:385:TYR:O	1:B:388:THR:OG1	2.11	0.66
1:D:467:MET:HE1	1:D:546:ALA:CB	2.25	0.66
1:E:532:MET:C	1:E:534:PRO:HD2	2.21	0.66
1:H:742:LEU:HD12	1:H:908:LEU:HD21	1.76	0.66
1:H:1050:PHE:CD1	1:H:1187:PHE:HB3	2.31	0.66
1:I:544:HIS:CD2	1:I:545:PRO:HD2	2.30	0.66
1:I:714:LEU:HB2	1:I:722:LEU:HD11	1.76	0.66
1:I:918:ALA:HB2	1:I:1032:SER:CB	2.26	0.66
1:J:367:LEU:CD2	1:J:376:PHE:HD1	2.01	0.66
1:K:742:LEU:HD21	1:K:908:LEU:HD21	1.77	0.66
1:K:1229:HIS:NE2	1:K:1241:THR:HG23	2.10	0.66
1:L:268:ASP:O	1:L:269:THR:OG1	2.13	0.66
1:L:1265:GLY:O	1:L:1266:ALA:CB	2.41	0.66
1:M:1118:PRO:O	1:M:1119:VAL:HB	1.94	0.66
1:N:119:TYR:C	1:N:120:MET:HG3	2.20	0.66
2:U:5:CYS:SG	2:U:94:HIS:CE1	2.88	0.66
3:V:33:LEU:CA	3:V:36:VAL:HG12	2.25	0.66
3:V:198:TYR:CE1	3:V:294:VAL:HG11	2.30	0.66
2:W:268:ARG:HD3	2:X:164:ASN:OD1	1.95	0.66
3:b:272:GLU:O	3:b:276:THR:HG22	1.94	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:e:255:VAL:HB	3:e:262:SER:OG	1.95	0.66
4:h:44:HIS:NE2	4:h:50:VAL:HG13	2.09	0.66
4:m:44:HIS:NE2	4:m:50:VAL:HG13	2.09	0.66
4:n:44:HIS:NE2	4:n:50:VAL:HG13	2.09	0.66
4:s:44:HIS:NE2	4:s:50:VAL:HG13	2.09	0.66
4:t:7:HIS:NE2	4:t:44:HIS:CE1	2.59	0.66
4:t:106:PRO:CD	4:t:107:LYS:H	2.07	0.66
1:G:239:HIS:CD2	1:G:240:ARG:HG3	2.31	0.66
1:G:419:HIS:CE1	1:G:421:GLY:O	2.48	0.66
1:A:801:ARG:HB3	1:A:802:PRO:HD2	1.77	0.66
1:C:295:VAL:HG11	1:C:369:ALA:CB	2.19	0.66
1:D:1204:ASN:ND2	1:D:1330:GLU:OE1	2.28	0.66
1:J:134:SER:O	1:L:44:SER:OG	2.13	0.66
1:J:840:GLN:NE2	4:o:58:ALA:CA	2.58	0.66
1:J:840:GLN:OE1	4:o:58:ALA:HA	1.94	0.66
1:J:1229:HIS:CD2	1:J:1241:THR:HG21	2.29	0.66
1:J:1300:VAL:HG11	1:J:1318:ARG:CD	2.23	0.66
1:K:280:THR:HG21	1:K:284:ILE:CG2	2.24	0.66
1:K:847:ILE:HG21	4:p:71:ASN:HA	1.75	0.66
1:L:129:LEU:HD11	1:L:183:GLN:NE2	2.09	0.66
1:M:269:THR:OG1	1:M:298:THR:CG2	2.43	0.66
1:M:666:ASN:CG	1:M:940:MET:HE3	2.20	0.66
1:M:696:HIS:CE1	1:M:1021:THR:HG21	2.30	0.66
1:M:1354:ARG:HH22	1:M:1357:HIS:HD2	1.43	0.66
1:N:539:LEU:O	1:N:540:ALA:C	2.37	0.66
1:N:841:ASN:ND2	1:N:873:ASN:O	2.27	0.66
1:O:833:ASP:O	4:s:54:LEU:HD11	1.96	0.66
2:Q:104:SER:CB	2:Q:105:PRO:HD3	2.26	0.66
2:R:5:CYS:SG	2:R:94:HIS:CE1	2.88	0.66
3:S:279:PRO:HB3	3:S:284:SER:CA	2.25	0.66
3:Y:296:LEU:CD2	3:Y:434:ARG:NH1	2.58	0.66
3:e:331:LYS:HZ2	3:e:434:ARG:HD2	1.58	0.66
3:e:335:PRO:O	3:e:337:ARG:N	2.27	0.66
4:h:46:THR:CG2	4:h:50:VAL:HG13	2.11	0.66
4:l:44:HIS:NE2	4:l:50:VAL:HG13	2.09	0.66
1:B:148:LEU:HD11	1:B:158:GLN:OE1	1.96	0.66
1:C:244:ILE:HG13	1:C:292:PHE:CE1	2.31	0.66
1:D:35:LEU:CB	1:L:1291:ARG:NH2	2.54	0.66
1:D:94:ARG:NH1	1:I:9:PRO:HG3	2.04	0.66
1:D:122:LYS:HD2	1:I:36:PHE:HD1	1.57	0.66
1:D:838:THR:HG23	4:k:94:LEU:HA	1.76	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1072:ALA:O	1:F:1099:ASN:HA	1.96	0.66
1:H:238:GLY:HA2	1:H:244:ILE:HD11	1.78	0.66
1:I:946:ASP:CB	1:J:676:THR:CG2	2.73	0.66
1:I:1078:LEU:HG	3:Y:40:PRO:HD3	1.76	0.66
1:J:436:PRO:HG3	1:J:595:ARG:HB3	1.76	0.66
1:J:595:ARG:O	1:J:599:LEU:HG	1.95	0.66
1:J:915:ASP:HB2	1:J:1030:LYS:NZ	1.92	0.66
1:K:488:GLY:N	1:K:520:TRP:HH2	1.93	0.66
1:M:102:PRO:HD2	1:N:387:ALA:HB3	1.78	0.66
1:P:1270:LEU:HD22	1:P:1303:ALA:HB2	1.75	0.66
2:U:17:SER:O	2:U:19:PRO:N	2.28	0.66
3:V:242:HIS:C	3:V:244:VAL:N	2.50	0.66
2:Z:33:PHE:HB2	2:Z:70:ARG:HD2	1.76	0.66
3:b:122:PRO:HB3	3:b:254:TRP:HB3	1.77	0.66
3:e:271:GLN:HB2	3:e:457:TRP:HE1	1.60	0.66
4:l:44:HIS:CB	4:l:47:GLN:O	2.42	0.66
1:G:591:PHE:HZ	1:G:1045:HIS:HD2	1.43	0.66
1:G:1313:ARG:CG	1:G:1317:CYS:CB	2.65	0.66
1:B:919:ASN:O	1:B:920:THR:C	2.38	0.66
1:D:1029:PHE:HB3	1:D:1039:GLN:NE2	2.10	0.66
1:E:599:LEU:O	1:E:603:ARG:NH1	2.27	0.66
1:E:1181:GLN:HE21	1:E:1310:GLN:HA	1.60	0.66
1:H:481:VAL:HG22	1:H:482:GLU:N	2.11	0.66
1:I:136:ALA:O	1:I:140:ILE:HG12	1.95	0.66
1:L:841:ASN:CG	4:q:57:GLN:NE2	2.53	0.66
1:M:883:ARG:NH2	4:r:88:LEU:CD1	2.58	0.66
1:O:642:CYS:O	4:s:87:TRP:CB	2.44	0.66
1:P:382:LYS:HA	1:P:386:ALA:HB2	1.78	0.66
1:P:759:GLY:C	1:P:780:ASP:C	2.63	0.66
1:P:837:ALA:CB	4:t:54:LEU:HD21	2.26	0.66
2:R:93:THR:HA	2:R:316:ARG:NH2	2.09	0.66
3:S:167:ALA:HB2	3:S:226:ARG:CD	2.26	0.66
3:S:271:GLN:HB2	3:S:457:TRP:HE1	1.60	0.66
3:V:33:LEU:O	3:V:36:VAL:HG13	1.89	0.66
3:V:122:PRO:HB3	3:V:254:TRP:HB3	1.76	0.66
3:Y:315:THR:HG21	3:Y:347:PHE:CE2	2.30	0.66
2:Z:116:LEU:HD13	2:Z:120:VAL:HG11	1.76	0.66
2:Z:220:ILE:HD12	2:a:209:MET:SD	2.35	0.66
2:a:99:ASN:CB	2:a:311:MET:HE3	2.22	0.66
3:b:255:VAL:HB	3:b:262:SER:OG	1.95	0.66
2:c:116:LEU:HD13	2:c:120:VAL:HG11	1.76	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:c:224:ILE:HB	2:c:225:PRO:HD3	1.77	0.66
4:f:44:HIS:NE2	4:f:50:VAL:HG13	2.09	0.66
4:g:53:PHE:O	4:g:55:ARG:N	2.29	0.66
4:h:20:LEU:N	4:h:20:LEU:CD1	2.57	0.66
4:k:46:THR:CG2	4:k:50:VAL:HG13	2.10	0.66
1:A:1061:GLU:HB2	1:A:1113:ALA:O	1.95	0.66
1:A:1085:THR:OG1	1:A:1090:ASN:ND2	2.28	0.66
1:A:1300:VAL:HG12	1:A:1313:ARG:HD3	1.78	0.66
1:C:267:ALA:HB3	1:C:274:VAL:N	2.09	0.66
1:D:1100:VAL:HG12	1:D:1101:ASP:N	2.10	0.66
1:E:9:PRO:HG2	1:H:94:ARG:CZ	2.25	0.66
1:F:85:PRO:HB2	1:F:86:GLU:OE1	1.95	0.66
1:I:403:VAL:HG13	1:I:1331:ALA:HB1	1.77	0.66
1:J:631:GLN:OE1	1:J:666:ASN:ND2	2.28	0.66
1:J:892:LEU:HD21	4:o:65:GLY:HA2	1.77	0.66
1:J:921:ALA:HB3	1:J:1136:PRO:HB2	1.77	0.66
1:K:263:ARG:HH12	1:K:307:GLY:CA	2.07	0.66
1:K:840:GLN:CD	4:p:58:ALA:HA	2.20	0.66
1:L:237:ALA:O	1:L:244:ILE:HD11	1.96	0.66
1:N:87:LEU:O	1:N:126:ARG:NH1	2.28	0.66
1:N:269:THR:OG1	1:N:298:THR:HG21	1.95	0.66
1:O:429:HIS:HB3	1:O:430:PRO:HD3	1.78	0.66
2:Q:224:ILE:HB	2:Q:225:PRO:HD3	1.77	0.66
3:S:242:HIS:O	3:S:243:GLU:C	2.39	0.66
3:S:312:LEU:N	3:S:423:ALA:O	2.28	0.66
3:Y:437:HIS:O	3:Y:449:VAL:CG1	2.44	0.66
4:i:53:PHE:O	4:i:55:ARG:N	2.29	0.66
4:s:7:HIS:NE2	4:s:44:HIS:CE1	2.59	0.66
1:G:126:ARG:CZ	2:Q:82:ARG:HH12	2.08	0.66
1:B:1278:THR:HG23	1:B:1281:ASP:HB2	1.78	0.66
1:D:463:HIS:O	1:D:465:SER:N	2.29	0.66
1:D:834:ARG:HG2	4:k:94:LEU:CB	2.26	0.66
1:D:836:TYR:HD1	1:D:897:LEU:HD13	1.61	0.66
1:D:837:ALA:HB3	4:k:94:LEU:O	1.96	0.66
1:E:844:VAL:CG1	4:k:68:HIS:CB	2.73	0.66
1:F:767:ALA:O	1:F:786:ASN:CA	2.43	0.66
1:H:268:ASP:CB	1:H:272:ARG:O	2.44	0.66
1:H:481:VAL:O	2:X:172:GLU:OE2	2.13	0.66
1:I:1095:GLN:NE2	1:I:1097:ARG:HH21	1.93	0.66
1:J:1056:ASP:CG	1:J:1120:THR:CG2	2.69	0.66
1:L:269:THR:CG2	1:L:298:THR:HB	2.11	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:837:ALA:CA	4:r:54:LEU:CD2	2.49	0.66
1:O:418:ALA:CB	1:O:1354:ARG:NH2	2.58	0.66
1:P:756:ILE:HG13	1:P:757:ASP:N	2.08	0.66
2:X:13:PRO:CD	2:X:43:LEU:HD22	2.15	0.66
2:a:74:VAL:HG21	2:a:100:LEU:HD13	1.76	0.66
4:h:53:PHE:O	4:h:55:ARG:N	2.29	0.66
4:n:35:ILE:CA	4:n:36:MET:SD	2.79	0.66
1:B:522:ALA:O	1:B:524:CYS:N	2.29	0.66
1:B:580:GLY:HA2	1:B:592:ARG:HH12	1.60	0.66
1:D:440:LEU:HD23	1:D:452:LEU:HD12	1.77	0.66
1:E:9:PRO:CG	1:H:94:ARG:NH2	2.59	0.66
1:E:1225:LEU:HD21	1:E:1234:PRO:HG3	1.78	0.66
1:F:207:ASN:OD1	1:F:207:ASN:C	2.39	0.66
1:F:372:ASP:O	1:F:373:ARG:HG3	1.96	0.66
1:H:582:LEU:HD12	1:H:592:ARG:HH22	1.61	0.66
1:J:529:GLU:C	1:J:532:MET:CE	2.68	0.66
1:J:1123:GLY:O	1:J:1124:ASN:HB2	1.95	0.66
1:K:533:GLN:N	1:K:534:PRO:HD2	2.10	0.66
1:M:1216:GLY:O	1:M:1217:ASP:CB	2.37	0.66
1:P:840:GLN:NE2	4:t:58:ALA:CB	2.50	0.66
1:P:889:PRO:CD	4:t:69:ALA:CB	2.72	0.66
2:R:18:ARG:CB	2:R:19:PRO:HD3	2.26	0.66
2:R:121:PHE:HB2	2:R:124:GLN:CB	2.25	0.66
3:V:312:LEU:N	3:V:423:ALA:O	2.29	0.66
2:a:97:THR:HG21	2:a:315:ILE:CG2	2.16	0.66
3:b:130:LEU:CD2	3:b:187:PHE:CD2	2.72	0.66
3:b:287:THR:HG22	3:b:288:ILE:N	2.11	0.66
3:e:137:PRO:HD2	3:e:138:THR:OG1	1.95	0.66
4:h:7:HIS:CE1	4:h:44:HIS:ND1	2.59	0.66
1:G:1166:PHE:HE2	2:Q:281:HIS:CB	1.83	0.66
1:A:255:THR:OG1	1:A:1067:GLU:OE2	2.13	0.66
1:B:429:HIS:HB3	1:B:430:PRO:HD2	1.76	0.66
1:B:467:MET:CE	1:B:1032:SER:HA	2.26	0.66
1:C:742:LEU:HD23	1:C:746:ALA:HB2	1.78	0.66
1:D:895:GLN:HB2	4:j:62:THR:HG22	1.78	0.66
1:H:842:MET:SD	4:m:61:LEU:HD21	2.23	0.66
1:J:201:MET:HE1	1:J:1289:LEU:HB3	1.76	0.66
1:K:714:LEU:HB2	1:K:722:LEU:HD11	1.76	0.66
1:K:861:PRO:O	1:K:869:ASN:ND2	2.27	0.66
1:K:1250:PHE:CE1	1:K:1261:TYR:OH	2.48	0.66
1:L:846:GLU:CD	4:q:67:THR:HG1	1.97	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:241:ARG:NH2	1:M:245:GLU:OE2	2.28	0.66
1:P:1328:PHE:CB	1:P:1330:GLU:OE1	2.44	0.66
2:U:161:ARG:HE	2:U:173:LEU:HD23	1.60	0.66
3:V:108:TYR:CZ	3:V:110:LEU:CG	2.79	0.66
3:V:271:GLN:HB2	3:V:457:TRP:HE1	1.60	0.66
3:Y:296:LEU:HD23	3:Y:436:LEU:CD2	2.26	0.66
3:b:120:CYS:HB2	3:b:184:LEU:O	1.95	0.66
3:b:198:TYR:N	3:b:324:LEU:HD21	2.10	0.66
3:b:426:GLY:HA2	3:b:458:ARG:H	1.60	0.66
3:e:108:TYR:CZ	3:e:110:LEU:CG	2.79	0.66
3:e:331:LYS:HZ3	3:e:434:ARG:HD2	1.60	0.66
4:f:1:MET:H3	4:f:5:GLN:CB	2.08	0.66
4:f:44:HIS:CB	4:f:47:GLN:O	2.42	0.66
4:h:8:ARG:HA	4:h:18:ARG:H	1.60	0.66
1:G:405:PRO:HB3	1:G:1199:PHE:CE2	2.30	0.66
1:G:871:VAL:HG12	1:G:872:ALA:H	1.61	0.66
1:A:1061:GLU:HG2	1:A:1114:THR:HG22	1.77	0.66
1:A:1201:ARG:NH2	1:B:446:ASP:OD2	2.28	0.66
1:B:871:VAL:HA	4:i:107:LYS:HE2	1.78	0.66
1:C:532:MET:CE	1:C:534:PRO:CB	2.71	0.66
1:C:544:HIS:CD2	1:C:546:ALA:H	2.14	0.66
1:D:582:LEU:HD11	1:D:1031:MET:CE	2.26	0.66
1:F:1118:PRO:HB3	1:F:1122:MET:HE2	1.78	0.66
1:H:189:LEU:CD1	1:H:1064:LEU:HD22	2.24	0.66
1:H:1208:ARG:NH2	1:H:1240:ALA:O	2.29	0.66
1:I:400:LEU:HD21	1:I:1324:PRO:HG3	1.78	0.66
1:L:844:VAL:HG22	1:L:864:PRO:HB3	1.78	0.66
1:M:68:VAL:HG21	1:M:178:ARG:HG2	1.77	0.66
1:M:904:ARG:HH12	1:M:906:THR:HG23	1.60	0.66
1:N:841:ASN:OD1	4:r:57:GLN:NE2	2.28	0.66
1:O:417:ALA:N	1:P:424:VAL:O	2.24	0.66
1:O:847:ILE:HG22	4:s:67:THR:O	1.96	0.66
1:P:297:ASP:HB3	1:P:367:LEU:O	1.96	0.66
1:P:1190:THR:HG22	1:P:1243:ASN:HD21	1.61	0.66
2:W:104:SER:CB	2:W:105:PRO:HD3	2.26	0.66
3:Y:122:PRO:HB3	3:Y:254:TRP:HB3	1.76	0.66
3:Y:279:PRO:HB3	3:Y:285:ALA:H	1.58	0.66
2:a:32:VAL:O	2:a:34:LEU:HD23	1.95	0.66
4:g:44:HIS:NE2	4:g:50:VAL:HG13	2.09	0.66
4:h:90:PRO:CB	4:h:105:ASP:O	2.43	0.66
4:j:53:PHE:O	4:j:55:ARG:N	2.29	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:p:44:HIS:NE2	4:p:50:VAL:HG13	2.09	0.66
4:q:20:LEU:N	4:q:20:LEU:HD22	2.11	0.66
4:r:53:PHE:O	4:r:55:ARG:N	2.29	0.66
1:G:264:LEU:HD21	1:G:359:GLN:CD	2.17	0.65
1:G:408:LEU:CD2	1:G:1194:THR:HB	2.26	0.65
1:G:1120:THR:HG22	1:G:1122:MET:N	2.10	0.65
1:A:467:MET:HE2	1:A:1032:SER:HA	1.78	0.65
1:A:1057:ARG:HH12	1:A:1321:VAL:HG21	1.60	0.65
1:A:1121:ASP:O	1:A:1122:MET:HB2	1.96	0.65
1:E:216:ARG:NH2	1:E:1287:ARG:O	2.26	0.65
1:H:439:GLN:HE21	1:H:451:ARG:NH2	1.94	0.65
1:J:445:LYS:C	1:J:446:ASP:O	2.23	0.65
1:J:669:SER:O	1:J:673:TYR:HD2	1.74	0.65
1:J:759:GLY:HA2	1:J:779:ASN:O	1.90	0.65
1:K:441:PHE:CZ	1:K:451:ARG:CD	2.74	0.65
1:M:599:LEU:O	1:M:603:ARG:NH1	2.29	0.65
1:N:1163:LEU:CD2	1:N:1169:ALA:CB	2.62	0.65
1:O:1225:LEU:HD13	1:P:1176:GLY:CA	2.26	0.65
2:Q:33:PHE:HB2	2:Q:70:ARG:HD2	1.76	0.65
2:T:33:PHE:HB2	2:T:70:ARG:HD2	1.76	0.65
2:Z:223:LEU:HD13	2:Z:271:LEU:HB3	0.73	0.65
3:b:195:THR:CB	3:b:204:ALA:HB1	2.26	0.65
4:h:1:MET:H3	4:h:5:GLN:CB	2.09	0.65
4:h:44:HIS:CB	4:h:47:GLN:O	2.42	0.65
4:k:53:PHE:O	4:k:55:ARG:N	2.29	0.65
4:m:53:PHE:O	4:m:55:ARG:N	2.29	0.65
4:r:46:THR:CG2	4:r:50:VAL:HG13	2.11	0.65
1:G:153:ILE:CG2	1:G:157:ARG:CB	2.73	0.65
1:G:196:ALA:HB1	1:G:227:PHE:HA	1.78	0.65
1:A:591:PHE:HZ	1:A:1045:HIS:CD2	2.14	0.65
1:A:956:TYR:CE1	1:A:958:LEU:HD22	2.28	0.65
1:A:1276:PHE:CZ	1:A:1329:GLN:NE2	2.47	0.65
1:B:200:PRO:HB3	1:B:222:GLU:OE1	1.95	0.65
1:B:841:ASN:O	1:B:875:VAL:N	2.26	0.65
1:B:956:TYR:HH	1:B:958:LEU:HD11	1.61	0.65
1:D:120:MET:SD	1:I:36:PHE:CZ	2.89	0.65
1:D:520:TRP:CD1	1:D:520:TRP:H	2.14	0.65
1:E:295:VAL:HG12	1:E:296:GLU:H	1.60	0.65
1:E:837:ALA:HB3	4:l:94:LEU:O	1.95	0.65
1:H:280:THR:HG22	1:H:281:THR:H	1.61	0.65
1:I:485:ASN:O	1:I:486:PRO:C	2.35	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:233:PHE:O	1:J:234:LEU:HB2	1.96	0.65
1:J:670:LEU:O	1:J:674:ILE:CD1	2.32	0.65
1:J:1083:HIS:CD2	1:J:1084:GLU:H	2.14	0.65
1:K:403:VAL:HG23	1:K:1331:ALA:CB	2.25	0.65
1:L:458:VAL:O	1:L:462:CYS:HB2	1.96	0.65
1:L:1218:LYS:CE	2:d:184:ALA:HB1	2.26	0.65
1:M:769:CYS:HB2	1:M:784:LEU:CD1	2.26	0.65
2:T:224:ILE:HB	2:T:225:PRO:HD3	1.77	0.65
3:V:285:ALA:O	3:V:286:VAL:CG2	2.43	0.65
3:Y:351:ARG:HA	3:Y:351:ARG:HE	1.61	0.65
2:a:5:CYS:HB2	2:a:94:HIS:NE2	2.11	0.65
2:c:33:PHE:HB2	2:c:70:ARG:HD2	1.76	0.65
3:e:312:LEU:N	3:e:423:ALA:O	2.29	0.65
4:i:44:HIS:NE2	4:i:50:VAL:HG13	2.09	0.65
4:k:44:HIS:CB	4:k:47:GLN:O	2.42	0.65
4:n:10:SER:H	4:n:17:VAL:CB	2.07	0.65
4:o:44:HIS:NE2	4:o:50:VAL:HG13	2.09	0.65
4:t:53:PHE:O	4:t:55:ARG:N	2.29	0.65
1:G:329:LEU:HB2	1:A:263:ARG:HG3	1.78	0.65
1:G:833:ASP:OD1	1:G:834:ARG:N	2.29	0.65
1:A:208:GLY:HA2	1:B:389:ASN:CA	2.25	0.65
1:A:323:GLY:C	1:A:324:LYS:HG3	2.21	0.65
1:A:956:TYR:CE1	1:A:958:LEU:HD23	2.30	0.65
1:B:536:ASN:ND2	1:B:539:LEU:HB2	2.10	0.65
1:E:34:ARG:NH2	1:H:1288:CYS:SG	2.69	0.65
1:F:461:VAL:O	1:F:466:LEU:HD22	1.96	0.65
1:F:1276:PHE:CE1	1:F:1329:GLN:C	2.74	0.65
1:H:558:LEU:HD21	1:H:999:PHE:CZ	2.32	0.65
1:H:872:ALA:HB3	4:m:30:ASN:OD1	1.97	0.65
1:I:238:GLY:HA2	1:I:244:ILE:HD11	1.77	0.65
1:J:256:GLN:O	1:J:1107:THR:HG22	1.95	0.65
1:K:844:VAL:HG11	4:p:68:HIS:CB	2.27	0.65
1:L:558:LEU:O	1:L:560:GLY:N	2.30	0.65
1:L:834:ARG:HD3	1:L:953:GLU:HG2	1.78	0.65
1:M:740:ASP:OD1	1:M:785:HIS:CE1	2.49	0.65
1:M:756:ILE:HD12	1:M:757:ASP:O	1.97	0.65
1:M:1215:ALA:HB2	1:M:1222:VAL:HG22	1.76	0.65
1:O:486:PRO:HD2	1:O:509:TRP:HZ3	1.60	0.65
1:O:1115:VAL:HG11	1:O:1374:LEU:CD2	2.23	0.65
1:P:454:MET:HE2	1:P:1050:PHE:HE2	1.62	0.65
3:S:292:ALA:HB3	3:S:295:ASP:N	2.11	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:V:255:VAL:HB	3:V:262:SER:OG	1.95	0.65
2:X:236:TYR:C	2:X:238:ASN:N	2.49	0.65
2:a:30:ARG:C	2:a:75:ILE:CD1	2.69	0.65
3:e:122:PRO:HB2	3:e:254:TRP:HB3	1.79	0.65
4:h:7:HIS:NE2	4:h:44:HIS:CE1	2.59	0.65
4:i:21:GLY:O	4:i:23:ARG:O	2.13	0.65
4:o:8:ARG:CB	4:o:18:ARG:CB	2.74	0.65
1:G:77:VAL:HG12	1:G:266:HIS:ND1	2.10	0.65
1:A:111:PRO:HG3	2:Q:301:ASP:HA	1.79	0.65
1:A:696:HIS:HE1	1:A:1021:THR:HG21	1.61	0.65
1:C:558:LEU:O	1:C:560:GLY:N	2.29	0.65
1:D:153:ILE:HD13	1:M:52:VAL:HG11	1.77	0.65
1:D:960:VAL:HA	1:D:994:LEU:HD13	1.76	0.65
1:F:1342:LEU:O	1:F:1345:SER:OG	2.14	0.65
1:I:840:GLN:HB3	1:I:894:LEU:HD23	1.78	0.65
1:J:81:CYS:CB	1:J:306:TYR:HE1	2.09	0.65
1:K:78:ALA:HA	1:K:1068:ARG:O	1.96	0.65
1:K:529:GLU:O	1:K:532:MET:HG2	1.97	0.65
1:L:533:GLN:N	1:L:534:PRO:CD	2.59	0.65
1:L:1298:SER:HB2	1:L:1320:LEU:HD22	1.78	0.65
1:O:739:CYS:HB2	1:O:785:HIS:ND1	2.11	0.65
1:P:586:LEU:HD23	1:P:1245:TRP:CZ2	2.30	0.65
1:P:1078:LEU:O	1:P:1094:THR:O	2.15	0.65
2:Q:227:LEU:HD12	2:Q:228:LEU:HD11	1.67	0.65
2:U:285:LEU:HD23	2:U:288:ILE:HD11	1.79	0.65
3:V:278:HIS:HB3	3:V:279:PRO:HD2	1.70	0.65
2:W:224:ILE:HB	2:W:225:PRO:HD3	1.77	0.65
3:Y:141:PRO:CG	3:Y:158:ALA:N	2.49	0.65
2:Z:178:VAL:HG11	2:Z:180:TYR:CE1	2.29	0.65
2:Z:219:LEU:HA	2:a:246:VAL:HG11	1.78	0.65
2:a:74:VAL:HG22	2:a:100:LEU:HD12	1.78	0.65
3:b:238:HIS:NE2	3:b:318:GLN:NE2	2.44	0.65
4:o:8:ARG:CB	4:o:18:ARG:H	2.08	0.65
1:G:75:LEU:HD23	1:G:279:VAL:HG21	1.78	0.65
1:G:1195:ASP:OD1	1:G:1195:ASP:N	2.28	0.65
1:A:956:TYR:HE1	1:A:958:LEU:HB2	1.61	0.65
1:B:312:ASN:O	1:B:316:LEU:N	2.21	0.65
1:B:747:ALA:O	1:B:748:LEU:HG	1.96	0.65
1:C:403:VAL:CG2	1:C:1331:ALA:CB	2.73	0.65
1:C:981:ARG:HH22	1:D:803:ALA:H	1.44	0.65
1:C:1225:LEU:CD2	1:C:1234:PRO:HG2	2.27	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:238:GLY:HA2	1:E:244:ILE:HD11	1.77	0.65
1:E:487:TYR:HE1	1:E:505:PHE:HZ	1.42	0.65
1:F:84:PHE:HD2	1:F:87:LEU:HD21	1.60	0.65
1:J:301:ASP:OD2	1:J:365:ALA:HB3	1.97	0.65
1:J:751:HIS:ND1	1:J:751:HIS:O	2.29	0.65
1:L:201:MET:HG2	1:L:1293:ILE:HD13	1.77	0.65
1:N:278:LEU:HD23	1:N:377:LEU:HD13	1.77	0.65
1:O:47:ASN:ND2	3:V:276:THR:HG22	2.11	0.65
1:P:196:ALA:HB1	1:P:227:PHE:HA	1.79	0.65
1:P:638:GLU:OE1	1:P:801:ARG:NH2	2.26	0.65
3:S:347:PHE:O	3:S:350:LEU:CD1	2.44	0.65
2:U:68:ARG:NH2	2:U:288:ILE:O	2.18	0.65
2:X:38:ARG:NH2	3:Y:305:PRO:CG	2.60	0.65
2:c:272:TYR:HE2	2:d:161:ARG:HG3	1.51	0.65
3:e:37:LEU:C	3:e:39:PRO:HD2	2.21	0.65
4:f:16:ASN:CB	4:f:20:LEU:HD12	2.25	0.65
4:o:18:ARG:CB	4:o:56:GLY:HA2	2.27	0.65
4:o:53:PHE:O	4:o:55:ARG:N	2.29	0.65
1:G:293:LEU:HD21	1:G:370:ILE:HD11	1.79	0.65
1:A:397:ALA:HB3	1:A:1321:VAL:CG2	2.27	0.65
1:A:520:TRP:CE3	1:A:997:ASN:ND2	2.64	0.65
1:B:1315:PRO:O	3:S:260:LEU:HG	1.97	0.65
1:C:1085:THR:CG2	1:C:1090:ASN:OD1	2.44	0.65
1:E:920:THR:O	1:E:1139:LEU:HD13	1.96	0.65
1:F:237:ALA:HA	1:F:239:HIS:CE1	2.30	0.65
1:F:751:HIS:NE2	1:F:754:CYS:HB2	2.12	0.65
1:F:751:HIS:CE1	1:F:754:CYS:HB2	2.31	0.65
1:F:1115:VAL:CG1	1:F:1374:LEU:HD21	2.26	0.65
1:H:892:LEU:HD21	4:m:65:GLY:CA	2.26	0.65
1:H:1065:PHE:O	1:H:1108:ALA:HA	1.96	0.65
1:H:1218:LYS:NZ	1:I:1173:ARG:HG3	2.12	0.65
1:I:322:MET:CE	1:K:318:THR:HB	2.27	0.65
1:I:340:GLN:HE22	1:K:316:LEU:HD13	1.62	0.65
1:I:1070:SER:OG	1:I:1107:THR:CG2	2.44	0.65
1:J:918:ALA:CB	1:J:1032:SER:HB3	2.22	0.65
1:J:1013:SER:OG	1:J:1020:LEU:HD23	1.96	0.65
1:K:216:ARG:NH2	1:K:1287:ARG:O	2.28	0.65
1:K:648:VAL:HG13	1:K:664:PHE:CE2	2.31	0.65
1:K:778:ARG:HG3	1:K:904:ARG:CD	2.27	0.65
1:L:267:ALA:CA	1:L:274:VAL:H	1.89	0.65
1:M:338:ASP:CG	1:M:348:ARG:HH22	2.05	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:151:THR:O	1:N:155:LEU:HD13	1.96	0.65
1:N:252:THR:HG22	1:N:373:ARG:HD2	1.79	0.65
1:O:456:ASN:OD1	1:O:1126:PRO:HG2	1.97	0.65
1:O:521:VAL:HG22	1:O:521:VAL:O	1.96	0.65
1:O:581:ASN:ND2	1:O:1003:ARG:H	1.94	0.65
3:Y:328:TYR:OH	3:Y:347:PHE:HZ	1.80	0.65
2:Z:178:VAL:CG1	2:Z:180:TYR:CE1	2.79	0.65
2:d:12:ILE:HG22	2:d:16:ILE:HD11	1.79	0.65
2:d:285:LEU:HD23	2:d:288:ILE:HD11	1.79	0.65
4:s:53:PHE:O	4:s:55:ARG:N	2.29	0.65
1:G:195:LEU:HD12	1:G:199:LEU:HD21	1.78	0.65
1:G:263:ARG:HA	1:A:329:LEU:HD11	1.78	0.65
1:A:1300:VAL:CG1	1:A:1313:ARG:CD	2.74	0.65
1:D:1286:HIS:HB2	1:I:34:ARG:HH22	1.62	0.65
1:E:34:ARG:HH22	1:H:1286:HIS:HB2	1.61	0.65
1:H:665:VAL:O	1:H:812:TYR:OH	2.12	0.65
1:I:27:ILE:HG21	1:I:32:HIS:CE1	2.29	0.65
1:I:1259:GLY:H	1:I:1278:THR:CG2	2.10	0.65
1:K:71:LEU:HD13	1:K:305:THR:HA	1.78	0.65
1:L:156:HIS:HE1	1:L:160:ARG:HH11	1.44	0.65
1:L:274:VAL:HG22	1:L:374:LEU:HD21	1.76	0.65
1:M:487:TYR:OH	1:M:989:LEU:HA	1.96	0.65
1:N:203:ARG:NH2	1:N:222:GLU:OE2	2.20	0.65
1:P:269:THR:OG1	1:P:298:THR:HG21	1.96	0.65
2:Q:295:VAL:CG1	2:Q:314:VAL:HG13	2.25	0.65
3:S:287:THR:CB	3:S:289:PRO:HD3	2.23	0.65
3:S:347:PHE:CD2	3:S:419:TYR:HE2	2.15	0.65
3:V:187:PHE:HE2	3:V:290:ALA:O	1.80	0.65
2:W:295:VAL:CG1	2:W:314:VAL:HG13	2.25	0.65
3:Y:292:ALA:HB3	3:Y:295:ASP:N	2.11	0.65
3:e:242:HIS:C	3:e:244:VAL:N	2.50	0.65
3:e:292:ALA:HB3	3:e:295:ASP:N	2.11	0.65
1:C:904:ARG:HH12	1:C:906:THR:HG23	1.61	0.65
1:D:804:ASP:HB3	1:D:808:HIS:CE1	2.31	0.65
1:E:78:ALA:HB2	1:E:277:VAL:HG21	1.78	0.65
1:E:435:PHE:O	1:E:1359:THR:OG1	2.10	0.65
1:F:871:VAL:HG13	4:g:107:LYS:HZ1	1.62	0.65
1:I:83:LYS:CE	3:Y:41:ILE:CG2	2.74	0.65
1:I:839:LEU:O	1:I:875:VAL:CB	2.44	0.65
1:J:433:ARG:HD3	1:J:1357:HIS:ND1	2.12	0.65
1:L:847:ILE:CG2	4:q:70:ASN:O	2.45	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:1166:PHE:CB	3:V:142:HIS:NE2	2.57	0.65
3:S:435:CYS:HB2	3:S:451:ILE:HB	1.79	0.65
3:V:39:PRO:CG	3:V:41:ILE:HD11	2.23	0.65
3:V:242:HIS:CD2	3:V:243:GLU:N	2.65	0.65
3:V:288:ILE:HG12	3:V:457:TRP:HZ2	1.57	0.65
3:Y:434:ARG:NH1	3:Y:436:LEU:CG	2.53	0.65
2:a:31:VAL:CA	2:a:73:ALA:O	2.44	0.65
3:e:76:THR:HA	3:e:79:THR:HG22	1.78	0.65
4:p:44:HIS:CB	4:p:47:GLN:O	2.42	0.65
4:q:7:HIS:NE2	4:q:44:HIS:CE1	2.59	0.65
4:t:8:ARG:CB	4:t:18:ARG:H	2.09	0.65
1:G:656:TRP:CD2	1:G:686:CYS:HB3	2.32	0.65
1:G:1166:PHE:HD2	2:Q:281:HIS:HB2	1.34	0.65
1:A:101:GLN:NE2	1:A:116:VAL:O	2.24	0.65
1:A:509:TRP:O	1:A:513:LEU:HB2	1.96	0.65
1:B:1233:ASP:HB3	1:B:1236:ARG:O	1.97	0.65
1:C:267:ALA:HB2	1:C:274:VAL:HB	1.74	0.65
1:C:750:ARG:C	1:C:752:ARG:NH2	2.53	0.65
1:D:403:VAL:HG23	1:D:1331:ALA:HB1	1.79	0.65
1:D:534:PRO:HB3	1:E:1154:GLY:HA3	0.66	0.65
1:E:164:GLN:HB3	1:I:50:TYR:OH	1.97	0.65
1:F:834:ARG:HD3	1:F:953:GLU:HG2	1.77	0.65
1:H:1197:ASN:C	1:H:1199:PHE:H	2.04	0.65
1:I:410:ASN:O	1:I:415:ARG:NH2	2.29	0.65
1:I:530:GLN:CG	1:I:536:ASN:ND2	2.50	0.65
1:J:1206:ARG:HD3	1:J:1277:PHE:CE1	2.32	0.65
1:J:1300:VAL:HG12	1:J:1318:ARG:CG	2.26	0.65
1:L:70:PHE:O	1:L:70:PHE:CG	2.50	0.65
1:L:83:LYS:CG	3:Y:79:THR:CG2	2.70	0.65
1:L:1008:GLN:HE21	1:L:1012:GLU:HB2	1.62	0.65
1:M:1343:LEU:O	1:M:1346:ALA:HB3	1.97	0.65
1:N:97:PHE:CE1	1:N:122:LYS:HD2	2.31	0.65
1:O:1057:ARG:O	1:O:1119:VAL:HB	1.97	0.65
1:P:148:LEU:HD21	1:P:155:LEU:N	2.11	0.65
2:R:17:SER:OG	2:R:132:SER:OG	1.87	0.65
2:R:99:ASN:HB3	2:R:311:MET:CE	2.23	0.65
2:Z:108:LEU:HD11	3:b:136:HIS:HE1	1.61	0.65
2:a:68:ARG:CD	3:b:337:ARG:HG3	2.25	0.65
2:a:230:LEU:CB	2:a:237:VAL:HG11	2.27	0.65
3:b:112:ARG:HD3	3:b:264:THR:HG22	1.78	0.65
3:b:251:LEU:HD21	3:b:254:TRP:CZ3	2.20	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:b:418:THR:O	3:b:419:TYR:HB3	1.94	0.65
4:j:44:HIS:CD2	4:j:47:GLN:O	2.50	0.65
4:l:53:PHE:O	4:l:55:ARG:N	2.29	0.65
4:n:53:PHE:O	4:n:55:ARG:N	2.29	0.65
1:G:97:PHE:HE1	1:G:120:MET:SD	2.19	0.65
1:G:832:PHE:CD2	1:G:836:TYR:HE2	2.14	0.65
1:A:194:PRO:HG2	1:A:197:LEU:HD12	1.79	0.65
1:A:840:GLN:OE1	4:g:58:ALA:CB	2.44	0.65
1:A:841:ASN:O	1:A:875:VAL:N	2.26	0.65
1:C:120:MET:HG3	1:M:36:PHE:CE2	2.32	0.65
1:D:182:ASP:OD1	1:D:385:TYR:OH	2.12	0.65
1:E:241:ARG:HA	1:E:292:PHE:HE1	1.62	0.65
1:H:758:ALA:HB1	1:H:781:GLY:H	1.61	0.65
1:I:842:MET:HG2	4:n:61:LEU:HD21	1.78	0.65
1:J:232:PHE:CZ	1:J:398:MET:SD	2.90	0.65
1:J:278:LEU:HD22	1:J:370:ILE:CD1	2.27	0.65
1:J:487:TYR:CE1	1:J:513:LEU:HD11	2.32	0.65
1:J:1134:GLY:HA3	1:J:1263:LEU:CA	2.15	0.65
1:K:155:LEU:HD22	1:K:158:GLN:CD	2.22	0.65
1:K:1213:VAL:HG21	1:K:1327:LEU:HD23	1.79	0.65
1:N:840:GLN:HE22	4:r:58:ALA:CB	1.98	0.65
1:N:1300:VAL:CG2	1:N:1318:ARG:HH21	2.09	0.65
1:P:752:ARG:NE	1:P:927:ARG:CZ	2.60	0.65
2:W:268:ARG:HD3	2:X:166:ASP:CG	2.22	0.65
3:Y:279:PRO:HB3	3:Y:284:SER:C	2.21	0.65
2:Z:147:LEU:HD12	2:Z:181:TYR:CD2	2.32	0.65
2:a:88:VAL:CG1	2:a:295:VAL:CG2	2.74	0.65
4:j:7:HIS:NE2	4:j:44:HIS:CE1	2.59	0.65
4:k:44:HIS:CD2	4:k:47:GLN:O	2.50	0.65
4:p:44:HIS:CD2	4:p:47:GLN:O	2.50	0.65
4:q:53:PHE:O	4:q:55:ARG:N	2.29	0.65
4:r:44:HIS:CD2	4:r:47:GLN:O	2.50	0.65
1:G:269:THR:HA	1:G:362:ARG:HH12	1.60	0.64
1:G:830:VAL:CG2	1:G:955:PHE:HD1	2.07	0.64
1:G:915:ASP:OD1	1:G:918:ALA:HB3	1.94	0.64
1:G:1166:PHE:CG	2:Q:281:HIS:HA	2.31	0.64
1:A:756:ILE:HG23	1:A:760:GLY:O	1.98	0.64
1:C:982:ASP:OD1	1:C:985:ARG:NH2	2.30	0.64
1:C:1056:ASP:OD1	1:C:1120:THR:CG2	2.46	0.64
1:D:44:SER:OG	1:L:114:GLN:CG	2.45	0.64
1:D:467:MET:HA	1:D:467:MET:HE2	1.79	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:841:ASN:O	1:D:875:VAL:N	2.26	0.64
1:D:861:PRO:O	1:D:869:ASN:ND2	2.29	0.64
1:F:293:LEU:HD12	1:F:293:LEU:O	1.96	0.64
1:I:466:LEU:O	1:I:467:MET:CB	2.44	0.64
1:I:1350:GLU:OE1	1:I:1364:TYR:CE2	2.50	0.64
1:J:1229:HIS:HD2	1:J:1241:THR:HG23	1.62	0.64
1:L:827:THR:OG1	1:L:958:LEU:O	2.15	0.64
1:O:486:PRO:O	1:O:509:TRP:CH2	2.50	0.64
1:O:581:ASN:HD21	1:O:1003:ARG:N	1.94	0.64
1:P:866:HIS:CD2	1:P:868:ALA:H	2.15	0.64
3:S:82:ASP:CA	3:S:85:GLN:HG2	2.27	0.64
2:W:69:ARG:NH2	2:X:112:ASP:OD1	2.30	0.64
2:W:268:ARG:CD	2:X:166:ASP:OD2	2.44	0.64
2:W:272:TYR:CZ	2:X:161:ARG:HA	2.31	0.64
2:a:97:THR:HG21	2:a:315:ILE:CB	2.27	0.64
2:c:69:ARG:NH2	2:d:112:ASP:OD1	2.30	0.64
3:e:278:HIS:CB	3:e:279:PRO:CD	2.44	0.64
3:e:287:THR:CB	3:e:289:PRO:HD3	2.23	0.64
4:i:44:HIS:CD2	4:i:47:GLN:O	2.50	0.64
4:n:44:HIS:CD2	4:n:47:GLN:O	2.50	0.64
4:r:7:HIS:CE1	4:r:44:HIS:ND1	2.59	0.64
4:r:21:GLY:O	4:r:23:ARG:O	2.15	0.64
1:G:263:ARG:CZ	1:G:354:LEU:HD11	2.27	0.64
1:G:832:PHE:HD2	1:G:902:ALA:O	1.81	0.64
1:G:1182:ASP:CB	1:G:1309:VAL:HG13	2.27	0.64
1:G:1228:ASP:O	1:G:1230:GLY:N	2.28	0.64
1:G:1300:VAL:N	1:G:1323:ASP:OD2	2.29	0.64
1:G:1316:GLY:O	2:R:304:ALA:CB	2.37	0.64
1:G:1324:PRO:O	1:G:1328:PHE:N	2.21	0.64
1:A:112:VAL:CG1	1:B:132:ALA:CB	2.75	0.64
1:B:1079:GLN:O	1:B:1093:LEU:HA	1.97	0.64
1:B:1354:ARG:HH22	1:B:1357:HIS:HD2	1.43	0.64
1:C:917:GLY:HA2	1:C:1034:VAL:CG2	2.27	0.64
1:D:78:ALA:HA	1:D:1068:ARG:O	1.97	0.64
1:D:248:LEU:CD2	1:D:293:LEU:CD2	2.47	0.64
1:D:403:VAL:HG23	1:D:1331:ALA:CB	2.27	0.64
1:D:838:THR:CG2	4:k:94:LEU:HA	2.27	0.64
1:E:44:SER:O	1:E:45:ASP:C	2.39	0.64
1:F:558:LEU:HD21	1:F:999:PHE:CZ	2.31	0.64
1:H:309:MET:HG3	1:H:309:MET:O	1.96	0.64
1:H:1346:ALA:CB	1:H:1362:LEU:HD11	2.27	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:525:GLN:NE2	1:I:536:ASN:N	2.45	0.64
1:I:1134:GLY:HA3	1:I:1263:LEU:HA	1.79	0.64
1:J:118:ASN:HB2	1:J:120:MET:HE1	1.78	0.64
1:J:1342:LEU:HD21	1:J:1354:ARG:HD3	1.75	0.64
1:K:960:VAL:HA	1:K:994:LEU:HD13	1.79	0.64
1:L:78:ALA:HA	1:L:1067:GLU:O	1.97	0.64
1:L:129:LEU:HD13	1:L:1097:ARG:HD2	1.78	0.64
1:N:1277:PHE:O	1:N:1278:THR:HG23	1.97	0.64
1:O:82:THR:HA	1:O:307:GLY:O	1.97	0.64
1:O:739:CYS:N	1:O:785:HIS:ND1	2.45	0.64
2:Q:69:ARG:NH2	2:R:112:ASP:OD1	2.30	0.64
2:T:92:LEU:C	2:T:92:LEU:HD12	2.23	0.64
3:Y:120:CYS:HB2	3:Y:184:LEU:O	1.95	0.64
2:Z:69:ARG:NH2	2:a:112:ASP:OD1	2.30	0.64
2:Z:92:LEU:C	2:Z:92:LEU:HD12	2.23	0.64
3:b:319:CYS:H	3:b:323:GLU:HG3	1.60	0.64
4:f:7:HIS:CE1	4:f:44:HIS:ND1	2.59	0.64
4:m:44:HIS:CD2	4:m:47:GLN:O	2.50	0.64
4:n:30:ASN:ND2	4:o:107:LYS:HZ1	1.95	0.64
4:o:44:HIS:CB	4:o:47:GLN:O	2.42	0.64
4:p:53:PHE:O	4:p:55:ARG:N	2.29	0.64
1:G:502:GLN:HB2	1:G:958:LEU:HD23	1.79	0.64
1:A:509:TRP:O	1:A:513:LEU:CB	2.45	0.64
1:A:1114:THR:HG22	1:A:1115:VAL:N	2.10	0.64
1:C:410:ASN:ND2	1:C:1358:PHE:O	2.30	0.64
1:C:1036:LEU:CD1	1:C:1036:LEU:C	2.60	0.64
1:E:544:HIS:CD2	1:E:546:ALA:H	2.15	0.64
1:E:873:ASN:OD1	4:l:92:PHE:CB	2.45	0.64
1:F:187:VAL:O	1:F:191:LYS:HG2	1.97	0.64
1:H:73:LEU:N	1:H:73:LEU:HD23	2.11	0.64
1:I:838:THR:CG2	4:o:94:LEU:HA	2.27	0.64
1:I:1166:PHE:CE1	2:W:284:GLN:HB3	2.33	0.64
1:J:279:VAL:HG23	1:J:1064:LEU:CB	2.16	0.64
1:J:403:VAL:HG12	1:J:1053:VAL:HG22	1.79	0.64
1:J:696:HIS:CE1	1:J:700:LEU:HD11	2.33	0.64
1:J:1134:GLY:CA	1:J:1263:LEU:HA	2.15	0.64
1:K:90:MET:HE2	1:L:56:ALA:HB3	1.78	0.64
1:K:99:VAL:CG1	1:K:120:MET:HE1	2.27	0.64
1:K:750:ARG:O	1:K:752:ARG:CD	2.44	0.64
1:K:802:PRO:O	1:K:803:ALA:CB	2.46	0.64
1:L:1057:ARG:HH22	1:L:1319:GLU:HG2	1.61	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:77:VAL:CG1	1:M:277:VAL:CG2	2.74	0.64
1:M:1115:VAL:HG12	1:M:1374:LEU:HD22	1.77	0.64
1:N:454:MET:CE	1:N:1050:PHE:CD2	2.79	0.64
1:P:151:THR:HG22	1:P:154:SER:OG	1.98	0.64
1:P:159:LEU:O	1:P:163:GLN:HG2	1.97	0.64
1:P:642:CYS:O	4:t:87:TRP:CB	2.45	0.64
2:Q:160:ILE:CG2	2:R:223:LEU:HD21	2.27	0.64
2:R:129:ARG:CZ	2:R:136:THR:HG23	2.26	0.64
3:V:33:LEU:C	3:V:36:VAL:CG1	2.47	0.64
3:V:292:ALA:HB3	3:V:295:ASP:CB	2.27	0.64
3:Y:108:TYR:CE2	3:Y:110:LEU:HG	2.33	0.64
3:Y:292:ALA:HB3	3:Y:295:ASP:CB	2.27	0.64
2:a:96:GLY:HA2	2:a:300:PHE:CE2	2.33	0.64
3:b:106:PRO:HD2	3:b:108:TYR:O	1.97	0.64
4:f:53:PHE:O	4:f:55:ARG:N	2.29	0.64
4:h:44:HIS:CD2	4:h:47:GLN:O	2.50	0.64
4:o:7:HIS:CE1	4:o:44:HIS:ND1	2.59	0.64
4:o:44:HIS:CD2	4:o:47:GLN:O	2.50	0.64
1:G:403:VAL:HG23	1:G:1331:ALA:HB1	1.80	0.64
1:G:1061:GLU:O	1:G:1112:THR:O	2.15	0.64
1:A:58:LEU:HD23	1:F:1074:PHE:CZ	2.32	0.64
1:B:164:GLN:O	1:B:168:ASN:ND2	2.30	0.64
1:C:1072:ALA:HB3	1:C:1100:VAL:H	1.62	0.64
1:E:549:PHE:HB3	1:E:571:ILE:HD11	1.80	0.64
1:H:527:THR:C	1:H:529:GLU:H	2.06	0.64
1:J:739:CYS:N	1:J:785:HIS:CE1	2.65	0.64
1:J:739:CYS:N	1:J:785:HIS:ND1	2.44	0.64
1:J:1273:CYS:O	1:J:1277:PHE:HB2	1.97	0.64
1:K:604:HIS:HD2	1:K:696:HIS:CD2	2.16	0.64
1:L:407:GLY:HA2	1:L:437:PRO:O	1.97	0.64
1:M:586:LEU:HD23	1:M:1245:TRP:CZ2	2.33	0.64
1:M:842:MET:SD	4:f:61:LEU:HD22	2.38	0.64
1:O:867:PRO:CB	4:t:80:ALA:HB3	2.17	0.64
1:P:1296:THR:O	1:P:1322:GLU:HG2	1.98	0.64
2:Q:92:LEU:C	2:Q:92:LEU:HD12	2.22	0.64
3:S:292:ALA:HB3	3:S:295:ASP:CB	2.27	0.64
3:V:347:PHE:CD2	3:V:419:TYR:HE2	2.15	0.64
2:X:13:PRO:O	2:X:133:LEU:CD1	2.44	0.64
3:Y:108:TYR:CZ	3:Y:110:LEU:CG	2.79	0.64
3:Y:437:HIS:O	3:Y:449:VAL:O	2.15	0.64
2:d:230:LEU:CB	2:d:237:VAL:HG11	2.27	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:g:44:HIS:CD2	4:g:47:GLN:O	2.50	0.64
1:G:418:ALA:HB3	1:G:1354:ARG:HH21	1.53	0.64
1:A:308:GLU:CB	1:B:58:LEU:HD11	2.27	0.64
1:A:421:GLY:O	1:F:419:HIS:NE2	2.30	0.64
1:C:372:ASP:O	1:C:373:ARG:HG3	1.96	0.64
1:D:94:ARG:NH2	1:I:9:PRO:HG3	2.13	0.64
1:D:1288:CYS:SG	1:I:34:ARG:NH2	2.70	0.64
1:F:26:THR:O	1:F:27:ILE:CG2	2.46	0.64
1:F:272:ARG:HD3	1:F:374:LEU:HD13	1.77	0.64
1:F:501:MET:HE2	1:F:958:LEU:HD11	1.78	0.64
1:J:575:TRP:HZ2	1:J:918:ALA:CB	2.07	0.64
1:J:840:GLN:CD	4:o:58:ALA:CA	2.70	0.64
1:J:847:ILE:HG21	4:o:70:ASN:C	2.23	0.64
1:J:1056:ASP:CG	1:J:1120:THR:HG22	2.21	0.64
1:M:458:VAL:O	1:M:462:CYS:HB2	1.97	0.64
1:M:1054:ARG:NH1	1:M:1122:MET:HA	2.12	0.64
1:N:730:ALA:HB2	1:N:750:ARG:NH1	2.13	0.64
1:N:754:CYS:HA	1:N:910:CYS:HG	1.62	0.64
1:N:1198:TYR:HD2	1:N:1236:ARG:HD3	1.63	0.64
1:O:47:ASN:ND2	3:V:272:GLU:O	2.31	0.64
1:O:770:ASN:H	1:O:773:THR:HB	1.62	0.64
1:P:135:LEU:CD1	1:P:140:ILE:HG22	2.26	0.64
2:T:69:ARG:NH2	2:U:112:ASP:OD1	2.30	0.64
2:T:108:LEU:HD13	3:V:136:HIS:HE1	1.62	0.64
3:Y:242:HIS:CD2	3:Y:243:GLU:N	2.65	0.64
2:a:285:LEU:HD23	2:a:288:ILE:HD11	1.79	0.64
2:c:227:LEU:HD13	2:c:227:LEU:C	2.23	0.64
3:e:187:PHE:HE2	3:e:290:ALA:O	1.80	0.64
4:l:44:HIS:CD2	4:l:47:GLN:O	2.50	0.64
4:n:44:HIS:CB	4:n:47:GLN:O	2.42	0.64
4:s:6:PHE:CB	4:s:10:SER:OG	2.46	0.64
4:s:44:HIS:CD2	4:s:47:GLN:O	2.50	0.64
1:G:556:VAL:HG21	1:G:565:PRO:HB2	1.79	0.64
1:G:663:ALA:N	1:G:690:TYR:OH	2.26	0.64
1:C:834:ARG:HG2	4:j:94:LEU:CB	2.27	0.64
1:C:847:ILE:HG21	4:i:70:ASN:O	1.97	0.64
1:C:1229:HIS:CD2	1:C:1241:THR:HG23	2.33	0.64
1:D:423:LEU:HD13	1:D:433:ARG:HH22	1.63	0.64
1:D:1201:ARG:NH2	1:E:446:ASP:OD2	2.30	0.64
1:E:1221:ASP:OD1	1:E:1222:VAL:N	2.29	0.64
1:F:527:THR:C	1:F:529:GLU:H	2.05	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:738:ASP:CB	1:F:787:THR:OG1	2.43	0.64
1:H:1201:ARG:HH22	1:I:1179:HIS:HE1	1.44	0.64
1:I:97:PHE:HE2	1:I:122:LYS:HD2	1.60	0.64
1:I:554:ALA:CB	1:I:568:PRO:O	2.46	0.64
1:I:1054:ARG:NH1	1:I:1123:GLY:HA2	2.12	0.64
1:I:1156:ARG:NH1	1:I:1182:ASP:OD2	2.30	0.64
1:J:74:GLY:O	1:J:277:VAL:CG1	2.44	0.64
1:J:75:LEU:C	1:J:77:VAL:H	2.05	0.64
1:K:488:GLY:N	1:K:520:TRP:CH2	2.66	0.64
1:K:521:VAL:HG22	1:K:521:VAL:O	1.96	0.64
1:K:621:ARG:HH22	1:K:945:LEU:HD22	1.62	0.64
1:N:293:LEU:CD2	1:N:377:LEU:HD22	2.27	0.64
1:N:758:ALA:C	1:N:779:ASN:CB	2.70	0.64
1:P:293:LEU:HD13	1:P:368:VAL:CB	2.28	0.64
2:R:13:PRO:HD2	2:R:43:LEU:CD2	2.21	0.64
2:R:38:ARG:NH2	3:S:305:PRO:HG2	2.12	0.64
2:U:230:LEU:CB	2:U:237:VAL:HG11	2.27	0.64
3:V:242:HIS:O	3:V:243:GLU:C	2.39	0.64
2:W:92:LEU:HD12	2:W:92:LEU:C	2.23	0.64
2:W:227:LEU:HD13	2:W:227:LEU:C	2.23	0.64
3:Y:328:TYR:OH	3:Y:347:PHE:CZ	2.51	0.64
3:e:242:HIS:CD2	3:e:243:GLU:N	2.65	0.64
4:f:9:PRO:C	4:f:17:VAL:CB	2.69	0.64
4:i:10:SER:H	4:i:17:VAL:CB	2.09	0.64
4:m:107:LYS:HG2	4:m:108:THR:N	2.11	0.64
4:q:44:HIS:CD2	4:q:47:GLN:O	2.50	0.64
4:t:44:HIS:CD2	4:t:47:GLN:O	2.50	0.64
1:G:153:ILE:HG21	1:G:157:ARG:CD	2.28	0.64
1:G:467:MET:HB2	1:G:920:THR:HG21	1.80	0.64
1:B:373:ARG:NH1	1:B:1067:GLU:OE2	2.31	0.64
1:B:840:GLN:OE1	4:h:58:ALA:CB	2.45	0.64
1:C:120:MET:HG3	1:M:36:PHE:CD2	2.33	0.64
1:C:548:ASP:OD1	1:C:576:ARG:NE	2.29	0.64
1:D:256:GLN:OE1	1:I:27:ILE:CD1	2.39	0.64
1:D:398:MET:HG3	1:D:1322:GLU:O	1.98	0.64
1:H:281:THR:O	1:H:281:THR:HG23	1.96	0.64
1:H:836:TYR:HA	1:H:839:LEU:HB2	1.80	0.64
1:H:841:ASN:HA	4:m:57:GLN:HE21	1.63	0.64
1:H:1190:THR:HG22	1:H:1243:ASN:ND2	2.12	0.64
1:I:122:LYS:HZ3	1:L:35:LEU:HD12	1.62	0.64
1:I:266:HIS:CD2	1:I:303:PRO:CB	2.72	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:461:VAL:HG13	1:I:466:LEU:HD22	1.80	0.64
1:I:948:THR:O	1:I:949:ILE:HG12	1.98	0.64
1:J:47:ASN:HD21	1:L:137:THR:HG22	1.62	0.64
1:J:71:LEU:O	1:J:76:SER:OG	2.14	0.64
1:J:445:LYS:O	1:J:446:ASP:CB	2.29	0.64
1:K:1175:ALA:HA	1:P:1218:LYS:HZ2	1.62	0.64
1:L:201:MET:O	1:L:205:LEU:HD13	1.98	0.64
1:M:766:ALA:CB	1:M:784:LEU:HD21	2.24	0.64
1:M:1029:PHE:HB3	1:M:1039:GLN:HE22	1.62	0.64
1:N:846:GLU:CD	4:r:67:THR:HG1	2.02	0.64
1:O:778:ARG:H	1:O:904:ARG:HD3	1.61	0.64
1:P:201:MET:HG3	1:P:205:LEU:CD2	2.28	0.64
1:P:521:VAL:O	1:P:521:VAL:HG12	1.96	0.64
1:P:840:GLN:OE1	4:t:58:ALA:HB2	1.98	0.64
3:Y:292:ALA:CB	3:Y:295:ASP:N	2.56	0.64
2:c:92:LEU:C	2:c:92:LEU:HD12	2.23	0.64
3:e:242:HIS:O	3:e:243:GLU:C	2.39	0.64
1:G:94:ARG:HB3	1:G:121:THR:HG23	1.79	0.64
1:G:1017:GLU:O	1:G:1021:THR:OG1	2.09	0.64
1:G:1166:PHE:CD2	2:Q:281:HIS:CG	2.80	0.64
1:G:1166:PHE:HE1	2:Q:280:ALA:CB	1.88	0.64
1:C:423:LEU:HD13	1:C:433:ARG:HH22	1.63	0.64
1:D:35:LEU:HB2	1:L:1291:ARG:HH22	1.63	0.64
1:E:1029:PHE:HB3	1:E:1039:GLN:NE2	2.09	0.64
1:F:1217:ASP:O	1:F:1218:LYS:HE2	1.98	0.64
1:I:837:ALA:HB2	4:n:54:LEU:HD11	1.79	0.64
1:I:1218:LYS:HD3	1:J:1173:ARG:NH2	2.12	0.64
1:J:1346:ALA:CB	1:J:1353:ALA:HB2	2.27	0.64
1:K:97:PHE:CD1	1:L:61:TYR:HB2	2.32	0.64
1:K:1296:THR:OG1	1:K:1327:LEU:HD12	1.96	0.64
1:L:267:ALA:HA	1:L:274:VAL:H	1.63	0.64
1:N:847:ILE:HG22	4:r:67:THR:O	1.97	0.64
1:N:1300:VAL:HG21	1:N:1318:ARG:HE	1.49	0.64
2:R:285:LEU:HD23	2:R:288:ILE:HD11	1.79	0.64
3:S:108:TYR:CE2	3:S:110:LEU:HG	2.32	0.64
2:W:228:LEU:CD2	2:W:241:LEU:CB	2.73	0.64
2:W:272:TYR:HD2	2:X:161:ARG:HG3	1.56	0.64
3:Y:187:PHE:HE2	3:Y:290:ALA:O	1.80	0.64
3:b:242:HIS:CD2	3:b:243:GLU:N	2.65	0.64
2:c:104:SER:CB	2:c:105:PRO:HD3	2.27	0.64
2:d:99:ASN:HB3	2:d:311:MET:CE	2.23	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:l:18:ARG:O	4:l:19:ALA:HB3	1.97	0.64
1:G:404:LEU:HD11	1:G:1334:ILE:HD11	1.80	0.64
1:G:409:PHE:CE2	1:G:415:ARG:NH2	2.59	0.64
1:A:558:LEU:HD21	1:A:999:PHE:CZ	2.33	0.64
1:A:642:CYS:HA	1:A:645:ALA:HB2	1.80	0.64
1:C:295:VAL:O	1:C:368:VAL:HG12	1.98	0.64
1:C:419:HIS:NE2	1:D:421:GLY:O	2.30	0.64
1:D:119:TYR:CE2	1:I:13:TYR:OH	2.45	0.64
1:I:200:PRO:HB3	1:I:222:GLU:OE1	1.98	0.64
1:I:509:TRP:CH2	1:I:564:PRO:HG3	2.33	0.64
1:J:487:TYR:HD2	1:J:520:TRP:HZ2	1.43	0.64
1:J:536:ASN:O	1:J:536:ASN:CG	2.38	0.64
1:K:53:GLU:HA	1:P:89:TYR:O	1.98	0.64
1:K:433:ARG:NH1	1:P:416:PHE:HD2	1.95	0.64
1:K:451:ARG:O	1:K:1124:ASN:ND2	2.31	0.64
1:K:502:GLN:OE1	1:K:959:PRO:HD3	1.97	0.64
1:M:1225:LEU:HD23	1:N:1176:GLY:N	2.11	0.64
1:M:1225:LEU:HD22	1:M:1234:PRO:HG2	1.76	0.64
1:N:871:VAL:HA	4:s:107:LYS:HE2	1.79	0.64
1:O:280:THR:HG22	1:O:1063:VAL:HG12	1.80	0.64
3:V:33:LEU:HA	3:V:36:VAL:CG1	2.28	0.64
3:V:292:ALA:CB	3:V:295:ASP:N	2.56	0.64
2:X:230:LEU:CB	2:X:237:VAL:HG11	2.27	0.64
3:b:418:THR:O	3:b:419:TYR:CB	2.45	0.64
3:e:292:ALA:HB3	3:e:295:ASP:CB	2.27	0.64
4:f:17:VAL:O	4:f:19:ALA:O	2.15	0.64
1:G:263:ARG:CD	1:G:264:LEU:HD13	2.28	0.64
1:G:963:LEU:HD23	1:G:1007:VAL:HG22	1.79	0.64
1:G:1262:HIS:HB3	2:Q:54:GLY:O	1.98	0.64
1:A:295:VAL:HG22	1:A:367:LEU:O	1.98	0.64
1:C:355:GLU:O	1:C:356:SER:OG	2.10	0.64
1:D:1221:ASP:HB3	1:E:1175:ALA:HB1	1.80	0.64
1:E:1259:GLY:HA3	1:E:1274:PHE:HE1	1.63	0.64
1:F:768:ALA:N	1:F:786:ASN:HB3	2.11	0.64
1:J:82:THR:HA	1:J:307:GLY:O	1.97	0.64
1:J:151:THR:OG1	1:K:86:GLU:OE2	2.16	0.64
1:J:544:HIS:HD2	1:J:546:ALA:H	1.44	0.64
1:K:496:GLY:HA3	1:K:504:ARG:HH22	1.62	0.64
1:K:724:HIS:CD2	1:K:726:MET:H	2.16	0.64
1:K:890:ALA:O	1:K:893:THR:OG1	2.15	0.64
1:M:759:GLY:HA2	1:M:779:ASN:C	2.22	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:1266:ALA:N	2:a:54:GLY:CA	2.59	0.64
1:O:1319:GLU:O	1:O:1320:LEU:C	2.40	0.64
3:S:242:HIS:CD2	3:S:243:GLU:N	2.65	0.64
2:U:236:TYR:C	2:U:238:ASN:N	2.49	0.64
3:Y:200:ALA:HB3	3:Y:294:VAL:HG13	1.80	0.64
3:Y:437:HIS:C	3:Y:449:VAL:O	2.40	0.64
2:a:236:TYR:C	2:a:238:ASN:N	2.49	0.64
3:b:243:GLU:C	3:b:244:VAL:HG23	2.23	0.64
2:c:295:VAL:HG13	2:c:315:ILE:C	2.23	0.64
3:e:122:PRO:CB	3:e:254:TRP:HB3	2.28	0.64
3:e:288:ILE:HG12	3:e:457:TRP:HZ2	1.58	0.64
4:f:44:HIS:CD2	4:f:47:GLN:O	2.50	0.64
4:l:7:HIS:NE2	4:l:44:HIS:CE1	2.59	0.64
4:n:7:HIS:CE1	4:n:44:HIS:ND1	2.59	0.64
1:G:126:ARG:NH1	2:Q:82:ARG:HH12	1.95	0.63
1:A:323:GLY:O	1:A:324:LYS:CB	2.45	0.63
1:A:599:LEU:O	1:A:603:ARG:NH1	2.31	0.63
1:C:445:LYS:O	1:C:446:ASP:CB	2.42	0.63
1:C:1232:SER:OG	1:D:1174:ARG:NH1	2.31	0.63
1:D:159:LEU:O	1:D:163:GLN:HG2	1.98	0.63
1:F:915:ASP:OD1	1:F:918:ALA:HB3	1.98	0.63
1:I:873:ASN:ND2	4:o:92:PHE:CB	2.61	0.63
1:I:1215:ALA:CB	1:I:1222:VAL:HG22	2.18	0.63
1:J:272:ARG:NE	1:J:374:LEU:HB2	2.13	0.63
1:J:778:ARG:HH22	1:J:782:ARG:CD	2.10	0.63
1:J:778:ARG:HG3	1:J:904:ARG:HE	1.63	0.63
1:J:819:ALA:HB2	1:J:1020:LEU:HD12	1.80	0.63
1:O:83:LYS:HB3	1:O:308:GLU:HG2	1.80	0.63
1:O:488:GLY:N	1:O:520:TRP:CH2	2.55	0.63
1:P:452:LEU:HD23	1:P:456:ASN:ND2	2.14	0.63
2:R:230:LEU:CB	2:R:237:VAL:HG11	2.27	0.63
3:V:88:ASP:HA	3:V:91:LEU:HD12	1.81	0.63
2:d:161:ARG:HH11	2:d:174:PRO:CG	2.11	0.63
4:i:7:HIS:NE2	4:i:44:HIS:CE1	2.59	0.63
1:G:1229:HIS:O	1:G:1230:GLY:C	2.35	0.63
1:G:1285:LYS:HZ3	1:G:1300:VAL:HG11	1.64	0.63
1:A:112:VAL:HB	1:B:132:ALA:HB2	1.79	0.63
1:A:467:MET:CE	1:A:575:TRP:NE1	2.61	0.63
1:A:918:ALA:HB2	1:A:1032:SER:HB2	1.78	0.63
1:A:957:VAL:HG13	1:A:958:LEU:H	1.62	0.63
1:A:1057:ARG:NH1	1:A:1321:VAL:HG21	2.13	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1276:PHE:CD1	1:A:1329:GLN:CG	2.80	0.63
1:B:1316:GLY:CA	3:S:260:LEU:HD22	2.27	0.63
1:H:745:HIS:O	1:H:751:HIS:CD2	2.51	0.63
1:I:84:PHE:HD1	1:I:309:MET:HG3	1.63	0.63
1:I:401:THR:HG21	1:I:1276:PHE:HE2	1.63	0.63
1:I:874:THR:CG2	1:I:876:ASN:OD1	2.47	0.63
1:I:874:THR:HG22	1:I:877:ALA:HB3	1.81	0.63
1:I:1078:LEU:CB	3:Y:40:PRO:HD3	2.28	0.63
1:I:1344:ARG:CG	1:I:1347:ARG:HH22	2.08	0.63
1:J:402:PHE:N	1:J:1054:ARG:O	2.26	0.63
1:J:833:ASP:OD1	1:J:834:ARG:N	2.31	0.63
1:L:768:ALA:C	1:L:786:ASN:HD21	2.06	0.63
1:M:77:VAL:HG23	1:M:266:HIS:CE1	2.32	0.63
1:M:621:ARG:NH2	1:M:945:LEU:HB3	2.13	0.63
1:M:873:ASN:HD21	4:r:92:PHE:CB	2.12	0.63
1:O:248:LEU:CD2	1:O:293:LEU:HD23	2.28	0.63
1:O:764:VAL:HG13	1:O:782:ARG:HG2	1.81	0.63
2:T:104:SER:CB	2:T:105:PRO:HD3	2.25	0.63
3:V:435:CYS:HB2	3:V:451:ILE:HB	1.79	0.63
2:d:236:TYR:C	2:d:238:ASN:N	2.49	0.63
4:f:3:ALA:HB2	4:f:38:ASN:O	1.97	0.63
4:s:44:HIS:CB	4:s:47:GLN:O	2.42	0.63
1:G:294:LYS:HE3	1:G:295:VAL:O	1.98	0.63
1:A:369:ALA:HA	1:A:373:ARG:O	1.97	0.63
1:A:483:ALA:H	1:A:569:GLY:HA3	1.63	0.63
1:A:789:ALA:O	4:g:104:ARG:CB	2.46	0.63
1:A:847:ILE:HG23	4:g:71:ASN:HA	1.80	0.63
1:B:920:THR:O	1:B:1139:LEU:HD12	1.96	0.63
1:B:1229:HIS:CD2	1:B:1241:THR:HG22	2.31	0.63
1:C:264:LEU:O	1:C:264:LEU:HD23	1.99	0.63
1:C:530:GLN:HA	1:C:536:ASN:ND2	2.13	0.63
1:E:293:LEU:HD23	1:E:377:LEU:HD11	1.79	0.63
1:F:1251:SER:O	1:F:1254:ASP:N	2.31	0.63
1:H:844:VAL:CG1	4:m:68:HIS:CB	2.76	0.63
1:I:81:CYS:HB3	1:I:306:TYR:CE1	2.33	0.63
1:J:268:ASP:CA	1:J:301:ASP:HB3	2.00	0.63
1:J:1037:TYR:CE2	1:J:1147:LEU:HD11	2.33	0.63
1:K:439:GLN:HG2	1:K:451:ARG:NH1	2.14	0.63
1:L:591:PHE:HZ	1:L:1045:HIS:CD2	2.15	0.63
1:M:280:THR:O	1:M:392:TYR:OH	2.16	0.63
1:N:907:ALA:HB1	1:N:994:LEU:HD21	1.79	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:1067:GLU:HG2	1:N:1068:ARG:H	1.61	0.63
1:N:1078:LEU:HD11	3:V:83:THR:CA	2.24	0.63
1:O:87:LEU:O	1:O:126:ARG:NH2	2.31	0.63
1:P:454:MET:HE2	1:P:1050:PHE:CE2	2.33	0.63
3:S:187:PHE:HE2	3:S:290:ALA:O	1.80	0.63
3:S:445:VAL:HG12	3:S:446:GLY:N	2.12	0.63
2:T:227:LEU:HD13	2:T:227:LEU:C	2.23	0.63
2:T:295:VAL:HG13	2:T:315:ILE:C	2.23	0.63
3:b:242:HIS:O	3:b:243:GLU:C	2.39	0.63
4:m:9:PRO:HB2	4:m:18:ARG:O	1.92	0.63
4:p:29:THR:O	4:q:98:TYR:O	2.16	0.63
1:G:153:ILE:HG23	1:G:157:ARG:HB3	1.79	0.63
1:G:409:PHE:CE2	1:G:591:PHE:HA	2.33	0.63
1:G:1174:ARG:NH2	1:G:1177:MET:SD	2.62	0.63
1:G:1314:PRO:O	1:G:1317:CYS:SG	2.57	0.63
1:A:322:MET:N	1:A:326:VAL:HB	2.07	0.63
1:E:544:HIS:CE1	1:E:1252:TYR:CD1	2.87	0.63
1:H:401:THR:CG2	1:H:1275:LYS:HZ1	2.11	0.63
1:H:841:ASN:CG	4:m:57:GLN:HE21	2.06	0.63
1:I:1221:ASP:O	1:J:1175:ALA:HB1	1.99	0.63
1:J:840:GLN:CD	4:o:58:ALA:HA	2.23	0.63
1:K:1263:LEU:C	1:K:1263:LEU:HD13	2.23	0.63
1:M:920:THR:CG2	1:M:1138:LEU:HD23	2.28	0.63
1:O:904:ARG:NH1	1:O:906:THR:HG23	2.13	0.63
1:O:1125:LEU:HD13	1:O:1125:LEU:C	2.23	0.63
1:P:842:MET:SD	4:t:61:LEU:HD22	2.39	0.63
3:V:108:TYR:CE2	3:V:110:LEU:HG	2.33	0.63
2:Z:298:CYS:CB	3:b:109:HIS:CD2	2.80	0.63
3:b:88:ASP:HA	3:b:91:LEU:HD12	1.80	0.63
3:e:436:LEU:HD23	3:e:436:LEU:N	2.13	0.63
4:g:44:HIS:CB	4:g:47:GLN:O	2.42	0.63
4:r:7:HIS:NE2	4:r:44:HIS:CE1	2.59	0.63
1:G:522:ALA:C	1:G:524:CYS:N	2.50	0.63
1:A:203:ARG:HD2	1:B:1116:ARG:HH22	1.64	0.63
1:A:454:MET:HE2	1:A:1040:LEU:CD2	2.28	0.63
1:A:534:PRO:CB	1:B:1154:GLY:CA	2.60	0.63
1:A:707:PHE:HA	1:A:1042:THR:HG21	1.79	0.63
1:E:423:LEU:HD13	1:E:433:ARG:HH22	1.64	0.63
1:E:544:HIS:ND1	1:E:1252:TYR:HB2	2.12	0.63
1:E:917:GLY:O	1:E:1033:PRO:HD2	1.98	0.63
1:F:874:THR:HG23	1:F:877:ALA:H	1.64	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:534:PRO:O	1:I:537:ALA:HB2	1.99	0.63
1:I:840:GLN:CB	4:n:61:LEU:HD11	2.29	0.63
1:J:641:PHE:HE1	1:J:648:VAL:HG11	1.64	0.63
1:J:892:LEU:CD2	4:o:65:GLY:HA2	2.27	0.63
1:K:759:GLY:CA	1:K:779:ASN:C	2.70	0.63
1:L:1348:ASP:CB	1:L:1352:HIS:HE1	2.12	0.63
1:M:268:ASP:HA	1:M:272:ARG:O	1.98	0.63
1:O:1210:ALA:HB3	1:O:1329:GLN:NE2	2.14	0.63
1:P:840:GLN:CD	4:t:58:ALA:CB	2.72	0.63
2:T:32:VAL:O	2:T:73:ALA:N	2.31	0.63
2:X:13:PRO:HG3	2:X:43:LEU:HD23	1.81	0.63
3:Y:243:GLU:C	3:Y:244:VAL:HG23	2.24	0.63
2:a:30:ARG:O	2:a:75:ILE:CD1	2.47	0.63
2:a:161:ARG:HB3	2:a:161:ARG:HH11	1.57	0.63
4:l:7:HIS:CE1	4:l:44:HIS:ND1	2.59	0.63
4:p:46:THR:CG2	4:p:50:VAL:HG13	2.11	0.63
1:G:1276:PHE:O	1:G:1277:PHE:CD2	2.52	0.63
1:A:624:PRO:HB3	1:A:882:GLY:HA3	1.80	0.63
1:A:847:ILE:CG2	4:g:71:ASN:HA	2.28	0.63
1:B:155:LEU:HD12	1:B:155:LEU:C	2.23	0.63
1:E:675:VAL:HA	1:E:687:MET:HE1	1.79	0.63
1:F:241:ARG:NH2	1:F:245:GLU:OE2	2.32	0.63
1:I:69:ARG:NH2	3:Y:42:ALA:HB1	2.12	0.63
1:I:696:HIS:CE1	1:I:1021:THR:HG21	2.31	0.63
1:I:756:ILE:HD11	1:I:906:THR:HG22	1.81	0.63
1:I:947:HIS:N	1:J:677:TYR:OH	2.28	0.63
1:J:81:CYS:CB	1:J:306:TYR:CE1	2.76	0.63
1:J:234:LEU:HA	1:J:244:ILE:HD11	1.80	0.63
1:J:766:ALA:O	1:J:796:ASP:OD1	2.16	0.63
1:J:846:GLU:OE2	4:o:67:THR:OG1	2.16	0.63
1:M:96:GLN:HB2	1:N:60:SER:HA	1.81	0.63
1:N:331:ASP:OD1	1:N:334:ARG:NH2	2.31	0.63
1:O:137:THR:HG21	3:b:273:ALA:HB1	1.79	0.63
1:O:187:VAL:CG2	1:O:1071:GLU:OE1	2.47	0.63
1:O:752:ARG:CD	1:O:927:ARG:NE	2.61	0.63
1:P:27:ILE:HG22	1:P:29:VAL:H	1.64	0.63
1:P:78:ALA:HA	1:P:1068:ARG:O	1.98	0.63
1:P:1163:LEU:HD22	1:P:1169:ALA:HA	1.80	0.63
2:Q:160:ILE:HD12	2:Q:210:VAL:CG2	2.25	0.63
2:Q:181:TYR:O	2:Q:182:ASN:OD1	2.17	0.63
3:S:161:TRP:HZ3	3:S:165:LEU:HD13	1.63	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U:97:THR:HG21	2:U:300:PHE:CE2	2.34	0.63
2:U:111:GLY:O	2:U:296:ARG:HG3	1.99	0.63
3:V:287:THR:CB	3:V:289:PRO:CD	2.77	0.63
2:X:285:LEU:HD23	2:X:288:ILE:HD11	1.79	0.63
3:b:190:LEU:HD23	3:b:190:LEU:C	2.22	0.63
3:e:427:VAL:CG1	3:e:428:MET:N	2.62	0.63
4:j:44:HIS:CB	4:j:47:GLN:O	2.42	0.63
1:A:264:LEU:HD12	1:A:264:LEU:N	2.00	0.63
1:B:642:CYS:O	4:h:87:TRP:CB	2.47	0.63
1:B:1223:ILE:CG2	1:B:1223:ILE:O	2.46	0.63
1:D:833:ASP:O	4:j:54:LEU:HD11	1.99	0.63
1:D:1202:PRO:O	1:D:1330:GLU:HB3	1.97	0.63
1:E:519:ARG:HG3	1:E:538:ASN:ND2	2.14	0.63
1:F:544:HIS:HD2	1:F:546:ALA:H	1.45	0.63
1:H:208:GLY:HA2	1:I:389:ASN:HA	1.78	0.63
1:H:293:LEU:HD13	1:H:370:ILE:HD11	1.81	0.63
1:H:579:ASN:O	1:H:582:LEU:HG	1.99	0.63
1:I:726:MET:HE1	1:I:814:TYR:HB2	1.80	0.63
1:I:752:ARG:CG	1:I:927:ARG:NE	2.62	0.63
1:I:1067:GLU:CB	1:I:1107:THR:HG23	2.28	0.63
1:J:742:LEU:HA	1:J:745:HIS:HB2	1.79	0.63
1:J:1250:PHE:N	1:J:1254:ASP:OD2	2.29	0.63
1:K:770:ASN:H	1:K:773:THR:HB	1.63	0.63
1:L:234:LEU:O	1:L:1114:THR:HG22	1.99	0.63
1:M:1195:ASP:N	1:M:1195:ASP:OD1	2.28	0.63
1:O:17:MET:O	1:O:19:PRO:HD3	1.99	0.63
1:O:889:PRO:CD	4:s:69:ALA:HB2	2.15	0.63
1:O:1106:TYR:OH	1:O:1293:ILE:HD11	1.98	0.63
1:P:895:GLN:OE1	4:t:62:THR:HA	1.98	0.63
3:S:287:THR:CB	3:S:289:PRO:CD	2.77	0.63
2:Z:219:LEU:HD11	2:Z:275:LEU:HA	1.78	0.63
2:a:74:VAL:HG11	2:a:99:ASN:O	1.99	0.63
3:e:108:TYR:CE2	3:e:110:LEU:HG	2.33	0.63
3:e:287:THR:CB	3:e:289:PRO:CD	2.77	0.63
3:e:316:TYR:CD2	3:e:419:TYR:C	2.76	0.63
3:e:446:GLY:O	3:e:447:VAL:HG22	1.98	0.63
4:t:44:HIS:CB	4:t:47:GLN:O	2.42	0.63
1:G:194:PRO:HA	1:G:1110:ALA:O	1.98	0.63
1:G:251:LEU:HD21	1:G:1063:VAL:HG11	1.79	0.63
1:G:297:ASP:O	1:G:365:ALA:O	2.16	0.63
1:G:311:LEU:HB2	1:B:153:ILE:HD11	1.78	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:510:ARG:CD	1:G:977:PRO:CG	2.65	0.63
1:G:696:HIS:HE1	1:G:1021:THR:HG21	1.63	0.63
1:A:209:ARG:O	1:A:210:LEU:HD23	1.97	0.63
1:A:544:HIS:ND1	1:A:1252:TYR:HB2	2.13	0.63
1:A:833:ASP:O	4:g:54:LEU:HD11	1.98	0.63
1:C:933:LEU:HD21	1:C:958:LEU:HD23	1.80	0.63
1:D:71:LEU:HD13	1:D:305:THR:HA	1.81	0.63
1:E:36:PHE:HD1	1:H:122:LYS:HG3	1.63	0.63
1:I:840:GLN:HB3	1:I:894:LEU:CD2	2.29	0.63
1:J:196:ALA:HB1	1:J:227:PHE:HA	1.79	0.63
1:J:742:LEU:O	1:J:746:ALA:N	2.32	0.63
1:J:1321:VAL:HG13	1:J:1323:ASP:N	2.14	0.63
1:K:534:PRO:HA	1:L:1154:GLY:HA3	1.79	0.63
1:K:636:GLY:O	1:K:787:THR:OG1	2.17	0.63
1:K:1070:SER:HB3	1:K:1107:THR:HG21	0.66	0.63
1:L:759:GLY:HA3	1:L:779:ASN:C	2.24	0.63
1:M:69:ARG:NH1	3:e:41:ILE:CD1	2.37	0.63
1:O:439:GLN:HE22	1:O:451:ARG:HD2	1.64	0.63
1:O:1155:ASN:HB2	1:O:1158:GLY:H	1.63	0.63
1:P:778:ARG:NH2	1:P:780:ASP:OD2	2.29	0.63
2:Q:227:LEU:HD13	2:Q:227:LEU:C	2.23	0.63
2:R:267:ARG:NH1	3:S:145:ARG:CB	2.53	0.63
3:V:39:PRO:HD2	3:V:42:ALA:HA	1.81	0.63
2:a:111:GLY:O	2:a:296:ARG:HG3	1.99	0.63
4:g:21:GLY:C	4:g:23:ARG:N	2.53	0.63
1:G:124:ILE:HG22	1:G:1100:VAL:HG13	1.81	0.63
1:G:409:PHE:CG	1:G:591:PHE:HD1	2.17	0.63
1:G:821:SER:HB2	1:G:825:CYS:SG	2.39	0.63
1:G:1288:CYS:O	1:G:1292:LEU:N	2.31	0.63
1:B:1158:GLY:O	1:B:1172:PRO:HD3	1.97	0.63
1:C:121:THR:CG2	1:M:38:PHE:HB3	2.24	0.63
1:C:458:VAL:O	1:C:462:CYS:HB2	1.99	0.63
1:C:519:ARG:NH2	1:C:541:LEU:HB2	2.07	0.63
1:C:840:GLN:NE2	4:i:58:ALA:CB	2.52	0.63
1:D:918:ALA:CB	1:D:1032:SER:HB3	2.28	0.63
1:D:1157:LEU:CD2	1:D:1309:VAL:HG11	2.29	0.63
1:F:628:TYR:HB3	1:F:955:PHE:CZ	2.34	0.63
1:F:756:ILE:HD13	1:F:908:LEU:HD13	1.80	0.63
1:H:707:PHE:HA	1:H:1042:THR:HG21	1.80	0.63
1:H:1237:PRO:HB2	1:I:1156:ARG:NH2	2.13	0.63
1:I:533:GLN:N	1:I:534:PRO:CD	2.61	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:956:TYR:CE1	1:I:958:LEU:HD11	2.34	0.63
1:J:241:ARG:HA	1:J:292:PHE:HE1	1.62	0.63
1:J:437:PRO:HD3	1:J:1359:THR:CB	2.27	0.63
1:K:828:ALA:HB1	1:K:956:TYR:O	1.99	0.63
1:L:87:LEU:HD12	1:L:87:LEU:O	1.99	0.63
1:L:470:ASP:N	1:L:470:ASP:OD1	2.32	0.63
1:L:1202:PRO:HB3	1:L:1332:TYR:CD1	2.34	0.63
1:M:407:GLY:HA3	1:M:454:MET:HE1	1.79	0.63
1:M:520:TRP:CG	1:M:997:ASN:HD22	2.17	0.63
1:N:268:ASP:C	1:N:269:THR:HG1	1.95	0.63
1:N:766:ALA:HB2	1:N:782:ARG:HD3	1.81	0.63
1:O:47:ASN:ND2	3:V:276:THR:CG2	2.61	0.63
1:O:714:LEU:HB2	1:O:722:LEU:HD11	1.81	0.63
3:S:108:TYR:CZ	3:S:110:LEU:CG	2.79	0.63
3:S:143:LEU:HD13	3:S:143:LEU:O	1.99	0.63
3:Y:422:PHE:HA	3:Y:462:TRP:HZ3	1.64	0.63
3:b:275:HIS:HD2	3:b:281:ARG:N	1.97	0.63
3:e:437:HIS:HB3	3:e:449:VAL:HG12	1.78	0.63
1:G:1161:GLN:HG3	2:R:180:TYR:CE1	2.33	0.62
1:G:1296:THR:O	1:G:1322:GLU:O	2.17	0.62
1:A:320:LEU:HD12	1:A:320:LEU:N	2.13	0.62
1:B:1080:VAL:HG12	1:B:1081:ALA:H	1.63	0.62
1:C:519:ARG:HH22	1:C:541:LEU:CB	2.07	0.62
1:C:579:ASN:O	1:C:582:LEU:HD13	1.96	0.62
1:D:445:LYS:CD	1:D:1118:PRO:CG	2.73	0.62
1:D:521:VAL:HG22	1:D:521:VAL:O	1.99	0.62
1:E:730:ALA:HB2	1:E:750:ARG:HH12	1.63	0.62
1:E:1221:ASP:O	1:E:1225:LEU:N	2.24	0.62
1:E:1278:THR:O	1:E:1282:ILE:HD12	1.99	0.62
1:H:200:PRO:HB3	1:H:222:GLU:OE1	1.99	0.62
1:H:591:PHE:HZ	1:H:1045:HIS:CD2	2.17	0.62
1:I:279:VAL:HG12	1:I:394:LEU:HD22	1.80	0.62
1:I:535:ASP:O	1:I:537:ALA:N	2.32	0.62
1:J:415:ARG:HH22	1:J:590:ALA:CB	2.08	0.62
1:J:591:PHE:HZ	1:J:1045:HIS:CG	2.17	0.62
1:J:1206:ARG:HD3	1:J:1277:PHE:CD1	2.34	0.62
1:K:1250:PHE:HE1	1:K:1261:TYR:OH	1.82	0.62
1:L:71:LEU:HD11	1:L:304:VAL:O	1.98	0.62
1:L:842:MET:HG3	4:q:61:LEU:CD2	2.27	0.62
1:O:532:MET:HE2	1:O:534:PRO:HD2	1.79	0.62
1:P:27:ILE:HB	1:P:29:VAL:HG23	1.79	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:847:ILE:HG21	4:t:70:ASN:O	1.99	0.62
2:R:111:GLY:O	2:R:296:ARG:HG3	1.99	0.62
3:S:82:ASP:C	3:S:85:GLN:HG2	2.24	0.62
3:S:134:LEU:CD2	3:S:185:VAL:CG2	2.71	0.62
3:S:243:GLU:C	3:S:244:VAL:HG23	2.23	0.62
3:Y:242:HIS:O	3:Y:243:GLU:C	2.39	0.62
1:G:272:ARG:HH12	1:G:374:LEU:HB2	1.62	0.62
1:A:163:GLN:NE2	1:F:348:ARG:HG2	2.14	0.62
1:A:521:VAL:O	1:A:521:VAL:HG23	1.98	0.62
1:A:730:ALA:HB2	1:A:750:ARG:NH1	2.13	0.62
1:C:1134:GLY:HA3	1:C:1263:LEU:HA	1.81	0.62
1:D:410:ASN:ND2	1:D:1358:PHE:O	2.32	0.62
1:E:28:GLU:HA	1:H:101:GLN:NE2	2.14	0.62
1:E:840:GLN:CD	4:k:58:ALA:CB	2.69	0.62
1:F:241:ARG:NH1	1:F:241:ARG:HG2	2.10	0.62
1:F:821:SER:O	1:F:823:GLY:N	2.32	0.62
1:H:90:MET:HE3	1:I:56:ALA:HB3	1.80	0.62
1:H:410:ASN:O	1:H:415:ARG:NH1	2.29	0.62
1:I:626:VAL:HG11	1:I:879:PHE:HA	1.80	0.62
1:I:947:HIS:ND1	1:J:638:GLU:OE2	2.32	0.62
1:L:1296:THR:OG1	1:L:1327:LEU:HD12	1.99	0.62
1:N:274:VAL:HG11	1:N:376:PHE:CD2	2.33	0.62
1:O:721:GLU:HB3	1:O:729:PRO:HD3	1.79	0.62
1:O:842:MET:CG	4:s:61:LEU:CD2	2.76	0.62
1:O:1107:THR:HG22	1:O:1108:ALA:N	2.14	0.62
3:Y:204:ALA:HB2	3:Y:294:VAL:HG11	1.81	0.62
2:c:92:LEU:CD1	2:c:93:THR:O	2.47	0.62
3:e:292:ALA:CB	3:e:295:ASP:N	2.56	0.62
4:f:16:ASN:CA	4:f:20:LEU:HD12	2.29	0.62
4:k:21:GLY:C	4:k:23:ARG:N	2.53	0.62
4:m:92:PHE:HA	4:m:102:VAL:H	1.64	0.62
4:p:8:ARG:CB	4:p:18:ARG:CA	2.77	0.62
1:G:235:GLY:HA3	1:G:1114:THR:HG22	1.81	0.62
1:G:741:GLY:O	1:G:745:HIS:NE2	2.33	0.62
1:G:905:THR:HG21	1:G:956:TYR:CZ	2.34	0.62
1:G:907:ALA:HB1	1:G:994:LEU:HD21	1.80	0.62
1:A:465:SER:HA	1:A:468:ASN:HD21	1.61	0.62
1:B:180:THR:HA	1:B:1097:ARG:HH12	1.64	0.62
1:C:96:GLN:OE1	1:M:12:ARG:HB3	1.99	0.62
1:C:267:ALA:CB	1:C:274:VAL:N	2.60	0.62
1:D:41:ARG:CG	1:L:118:ASN:OD1	2.36	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:81:CYS:CB	1:D:306:TYR:CE1	2.81	0.62
1:D:494:PRO:HD2	1:D:755:ARG:HD3	1.82	0.62
1:D:1317:CYS:C	1:D:1318:ARG:HG3	2.24	0.62
1:E:269:THR:HG21	1:E:298:THR:CG2	2.29	0.62
1:F:833:ASP:O	4:l:54:LEU:HD11	1.99	0.62
1:H:443:TRP:HH2	1:H:1347:ARG:CG	2.05	0.62
1:H:675:VAL:HA	1:H:687:MET:HE1	1.81	0.62
1:J:463:HIS:CE1	1:J:465:SER:HB3	2.34	0.62
1:J:765:TYR:CD2	1:J:797:ASP:HB3	2.34	0.62
1:K:847:ILE:HG23	4:p:71:ASN:HA	1.81	0.62
1:K:1118:PRO:O	1:K:1119:VAL:HB	1.98	0.62
1:L:279:VAL:O	1:L:394:LEU:HD11	1.98	0.62
1:L:721:GLU:HB3	1:L:729:PRO:HD3	1.81	0.62
1:M:27:ILE:HD12	1:M:27:ILE:O	1.98	0.62
1:N:766:ALA:HB3	1:N:784:LEU:CD1	2.28	0.62
1:P:135:LEU:HB3	1:P:140:ILE:HG23	1.80	0.62
1:P:445:LYS:O	1:P:446:ASP:HB2	1.99	0.62
1:P:758:ALA:O	1:P:781:GLY:HA2	1.99	0.62
1:P:933:LEU:HD22	1:P:958:LEU:HD13	1.81	0.62
1:P:1115:VAL:CG1	1:P:1374:LEU:CD2	2.77	0.62
2:R:16:ILE:H	2:R:132:SER:HB2	1.63	0.62
3:S:96:ARG:NH2	3:S:97:ALA:HB2	2.15	0.62
2:T:295:VAL:CG1	2:T:314:VAL:HG13	2.25	0.62
2:U:99:ASN:HB3	2:U:311:MET:CE	2.23	0.62
3:b:188:ASN:HD22	3:b:207:VAL:CG1	2.12	0.62
4:m:1:MET:H2	4:m:5:GLN:CB	2.13	0.62
4:p:53:PHE:O	4:p:56:GLY:N	2.33	0.62
1:G:510:ARG:HD2	1:G:977:PRO:CB	2.28	0.62
1:G:742:LEU:O	1:G:746:ALA:N	2.26	0.62
1:A:208:GLY:CA	1:B:389:ASN:C	2.73	0.62
1:B:90:MET:O	3:S:282:PRO:HG2	1.98	0.62
1:B:1221:ASP:OD1	1:B:1222:VAL:N	2.28	0.62
1:D:293:LEU:HD22	1:D:370:ILE:HG12	1.81	0.62
1:D:1118:PRO:HG3	1:D:1374:LEU:HD22	1.82	0.62
1:F:274:VAL:HG11	1:F:376:PHE:CD2	2.33	0.62
1:F:1216:GLY:N	1:F:1221:ASP:OD2	2.33	0.62
1:H:536:ASN:C	1:H:538:ASN:H	2.07	0.62
1:I:837:ALA:HB2	4:n:54:LEU:CD1	2.28	0.62
1:J:452:LEU:HD23	1:J:456:ASN:HD22	1.62	0.62
1:J:752:ARG:HG3	1:J:927:ARG:CZ	2.28	0.62
1:K:84:PHE:CE2	1:K:90:MET:HE3	2.34	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:106:ARG:NH2	1:L:390:VAL:HG13	2.15	0.62
1:K:769:CYS:HB2	1:K:784:LEU:HD21	1.82	0.62
1:M:47:ASN:ND2	3:Y:276:THR:HB	2.14	0.62
1:M:139:ALA:O	1:M:143:LEU:HB2	1.99	0.62
1:M:739:CYS:O	1:M:743:MET:HG2	1.98	0.62
1:N:481:VAL:HG22	1:N:482:GLU:H	1.65	0.62
1:O:467:MET:HE1	1:O:575:TRP:HE1	1.64	0.62
1:O:486:PRO:HG2	1:O:509:TRP:CH2	2.33	0.62
1:O:758:ALA:HB3	1:O:906:THR:HG23	1.82	0.62
1:O:1086:GLY:O	3:b:454:GLY:HA2	1.99	0.62
1:P:842:MET:CG	4:t:61:LEU:HD21	2.29	0.62
1:P:1210:ALA:HB3	1:P:1329:GLN:NE2	2.14	0.62
2:Q:106:VAL:HG13	2:Q:305:VAL:HG12	1.81	0.62
2:Q:180:TYR:CA	2:Q:185:ARG:HA	2.24	0.62
3:S:139:ASP:O	3:S:140:LEU:HG	1.99	0.62
2:T:92:LEU:CD1	2:T:93:THR:O	2.48	0.62
3:V:243:GLU:C	3:V:244:VAL:HG23	2.23	0.62
2:X:97:THR:HG21	2:X:300:PHE:CE2	2.34	0.62
2:a:32:VAL:CG1	2:a:34:LEU:HD23	2.29	0.62
4:m:21:GLY:O	4:m:22:MET:C	2.41	0.62
4:o:53:PHE:O	4:o:56:GLY:N	2.33	0.62
4:p:7:HIS:NE2	4:p:44:HIS:CE1	2.59	0.62
1:G:859:THR:O	1:G:859:THR:CG2	2.46	0.62
1:G:1295:GLU:HA	1:G:1298:SER:OG	1.99	0.62
1:A:323:GLY:O	1:A:324:LYS:CG	2.47	0.62
1:B:277:VAL:CG2	1:B:1066:SER:HB3	2.30	0.62
1:B:417:ALA:HB2	1:B:1358:PHE:HE1	1.59	0.62
1:C:294:LYS:O	1:C:295:VAL:C	2.42	0.62
1:E:71:LEU:HD13	1:E:305:THR:HA	1.81	0.62
1:F:269:THR:HG21	1:F:367:LEU:CD1	2.15	0.62
1:F:752:ARG:O	1:F:753:ASP:HB2	1.98	0.62
1:F:1061:GLU:OE2	1:F:1116:ARG:NH2	2.33	0.62
1:H:841:ASN:CB	4:m:57:GLN:HE22	2.03	0.62
1:I:372:ASP:OD1	1:I:372:ASP:N	2.33	0.62
1:I:840:GLN:HA	1:I:842:MET:HE2	1.81	0.62
1:J:532:MET:HE3	1:J:535:ASP:CB	2.30	0.62
1:J:1335:THR:HG23	1:J:1364:TYR:HA	1.81	0.62
1:K:778:ARG:HH21	1:K:782:ARG:H	1.45	0.62
1:K:873:ASN:OD1	4:q:92:PHE:CB	2.48	0.62
1:N:426:ALA:HB3	1:N:429:HIS:ND1	2.13	0.62
1:N:1198:TYR:OH	1:N:1204:ASN:O	2.16	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:289:LEU:HD11	1:O:296:GLU:CB	2.30	0.62
2:T:106:VAL:HG13	2:T:305:VAL:HG12	1.81	0.62
3:V:81:ASP:CB	3:V:85:GLN:HE21	2.11	0.62
3:V:427:VAL:CG1	3:V:428:MET:N	2.62	0.62
2:a:129:ARG:CD	2:a:136:THR:OG1	2.47	0.62
3:b:140:LEU:HD13	3:b:158:ALA:HA	1.81	0.62
3:b:296:LEU:HD23	3:b:450:VAL:CG2	1.90	0.62
2:d:97:THR:HG21	2:d:300:PHE:CE2	2.34	0.62
4:f:7:HIS:NE2	4:f:44:HIS:CE1	2.59	0.62
4:m:44:HIS:HB3	4:m:47:GLN:C	2.25	0.62
4:p:44:HIS:HB3	4:p:47:GLN:C	2.25	0.62
1:G:509:TRP:CH2	1:G:564:PRO:HD3	2.34	0.62
1:C:71:LEU:HD13	1:C:305:THR:HA	1.81	0.62
1:E:520:TRP:CD1	1:E:520:TRP:H	2.15	0.62
1:E:873:ASN:HD21	4:l:92:PHE:CB	2.13	0.62
1:E:1017:GLU:O	1:E:1021:THR:OG1	2.15	0.62
1:H:288:LEU:HD13	1:H:292:PHE:CD2	2.32	0.62
1:H:558:LEU:O	1:H:560:GLY:N	2.32	0.62
1:H:726:MET:HE1	1:H:814:TYR:HB2	1.82	0.62
1:I:840:GLN:HA	1:I:894:LEU:CD2	2.29	0.62
1:J:404:LEU:N	1:J:1052:VAL:O	2.33	0.62
1:J:1206:ARG:CZ	1:J:1247:SER:HA	2.25	0.62
1:L:274:VAL:CG2	1:L:374:LEU:HD23	2.29	0.62
1:M:260:ALA:HA	1:M:1068:ARG:HH22	1.65	0.62
1:N:302:VAL:HG23	1:N:302:VAL:O	2.00	0.62
1:N:1083:HIS:CG	1:N:1084:GLU:H	2.17	0.62
1:P:1264:ASN:N	1:P:1264:ASN:HD22	1.96	0.62
2:Q:182:ASN:HB3	3:S:136:HIS:CE1	2.35	0.62
2:Q:295:VAL:HG13	2:Q:315:ILE:C	2.23	0.62
3:S:163:GLN:O	3:S:226:ARG:HD2	2.00	0.62
3:S:427:VAL:CG1	3:S:428:MET:N	2.62	0.62
3:Y:242:HIS:C	3:Y:244:VAL:N	2.50	0.62
3:Y:436:LEU:CB	3:Y:450:VAL:HG22	2.29	0.62
3:e:435:CYS:C	3:e:436:LEU:HD23	2.25	0.62
4:j:53:PHE:O	4:j:56:GLY:N	2.33	0.62
4:s:53:PHE:O	4:s:56:GLY:N	2.33	0.62
1:G:817:VAL:HG12	1:G:821:SER:OG	2.00	0.62
1:A:1084:GLU:HG3	1:A:1089:VAL:HG12	1.82	0.62
1:C:527:THR:O	1:C:528:ALA:CB	2.48	0.62
1:C:804:ASP:OD1	1:C:808:HIS:ND1	2.30	0.62
1:F:365:ALA:HB1	1:F:376:PHE:HE1	1.65	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:301:ASP:OD2	1:J:376:PHE:HE1	1.80	0.62
1:J:301:ASP:C	1:J:303:PRO:HD3	2.23	0.62
1:J:405:PRO:O	1:J:440:LEU:HD22	1.99	0.62
1:K:191:LYS:HG3	1:K:191:LYS:O	1.98	0.62
1:K:439:GLN:CG	1:K:451:ARG:HH11	2.12	0.62
1:K:904:ARG:NH1	1:K:906:THR:HG23	2.14	0.62
1:L:359:GLN:OE1	1:L:359:GLN:HA	1.99	0.62
1:L:1319:GLU:O	1:L:1320:LEU:C	2.41	0.62
1:M:202:GLN:OE1	1:M:254:ALA:O	2.17	0.62
1:M:285:LYS:HG3	1:M:377:LEU:HD21	1.80	0.62
1:M:558:LEU:C	1:M:560:GLY:N	2.57	0.62
1:N:467:MET:HE2	1:N:1033:PRO:HD3	1.79	0.62
1:N:824:ARG:NH1	1:O:702:GLN:OE1	2.32	0.62
1:P:103:LEU:CD1	1:P:115:PRO:HG3	2.29	0.62
3:S:134:LEU:CD1	3:S:245:MET:HG3	2.13	0.62
3:V:438:ARG:O	3:V:448:PRO:HA	2.00	0.62
2:X:120:VAL:HG22	2:X:120:VAL:O	2.00	0.62
3:Y:315:THR:HG21	3:Y:347:PHE:CZ	2.34	0.62
3:b:112:ARG:CG	3:b:112:ARG:HH21	2.12	0.62
3:b:189:PHE:CA	3:b:211:ILE:HD12	1.96	0.62
3:b:278:HIS:CB	3:b:279:PRO:CD	2.74	0.62
1:G:485:ASN:O	1:G:487:TYR:N	2.32	0.62
1:B:521:VAL:HG22	1:B:521:VAL:O	1.99	0.62
1:D:1181:GLN:HE21	1:D:1310:GLN:HA	1.64	0.62
1:E:1071:GLU:OE2	1:E:1099:ASN:HB2	2.00	0.62
1:H:299:GLU:OE1	1:H:364:ARG:HD3	1.99	0.62
1:I:873:ASN:OD1	4:o:92:PHE:CA	2.47	0.62
1:J:596:GLY:O	1:J:600:GLY:N	2.33	0.62
1:J:1198:TYR:CE1	1:J:1236:ARG:NH1	2.67	0.62
1:L:1113:ALA:C	1:L:1114:THR:HG23	2.25	0.62
1:N:321:VAL:O	1:O:12:ARG:HD2	1.99	0.62
1:N:425:PRO:HG3	1:N:431:GLU:OE1	2.00	0.62
1:N:828:ALA:HA	1:N:957:VAL:O	1.99	0.62
1:O:203:ARG:NH2	1:O:222:GLU:OE1	2.33	0.62
1:P:456:ASN:OD1	1:P:1126:PRO:HG3	2.00	0.62
1:P:486:PRO:HG3	1:P:564:PRO:HG3	1.81	0.62
2:Q:182:ASN:HA	3:S:139:ASP:HB2	1.80	0.62
3:S:161:TRP:HZ3	3:S:165:LEU:CD1	2.13	0.62
2:T:313:PRO:C	2:T:314:VAL:HG23	2.24	0.62
2:c:295:VAL:CG1	2:c:314:VAL:HG13	2.25	0.62
4:i:53:PHE:O	4:i:56:GLY:N	2.33	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:j:7:HIS:CE1	4:j:44:HIS:ND1	2.59	0.62
4:o:77:PRO:CD	4:o:80:ALA:HB2	2.29	0.62
4:p:93:GLY:C	4:p:95:LYS:H	2.07	0.62
1:G:136:ALA:O	1:G:137:THR:C	2.42	0.62
1:G:368:VAL:O	1:G:375:VAL:HG12	1.99	0.62
1:A:642:CYS:O	4:g:87:TRP:CB	2.48	0.62
1:B:136:ALA:HA	1:B:1088:GLY:HA2	1.82	0.62
1:B:643:ALA:HB1	1:B:896:VAL:HG21	1.81	0.62
1:C:795:ALA:CB	1:C:800:HIS:HE1	2.09	0.62
1:C:814:TYR:O	1:C:818:PRO:CG	2.47	0.62
1:D:831:ARG:O	1:D:835:VAL:HG23	1.99	0.62
1:E:629:LEU:HB3	1:E:839:LEU:HD21	1.82	0.62
1:F:73:LEU:HD11	1:F:380:LEU:HD21	1.82	0.62
1:I:322:MET:HE3	1:K:318:THR:HB	1.81	0.62
1:I:1225:LEU:HD23	1:I:1234:PRO:HG3	1.79	0.62
1:K:496:GLY:O	1:K:758:ALA:HB2	1.99	0.62
1:K:764:VAL:HG13	1:K:782:ARG:HG2	1.80	0.62
1:K:1354:ARG:NH2	1:K:1357:HIS:HD2	1.96	0.62
1:M:11:TYR:HD2	1:M:13:TYR:CE1	2.18	0.62
1:N:467:MET:CE	1:N:1033:PRO:HD3	2.30	0.62
1:O:553:VAL:HG22	1:O:556:VAL:HG21	1.82	0.62
1:O:1155:ASN:HB2	1:O:1158:GLY:N	2.15	0.62
1:P:289:LEU:HD11	1:P:296:GLU:CG	2.27	0.62
1:P:867:PRO:HG2	4:p:78:MET:O	2.00	0.62
2:Q:147:LEU:HD12	2:Q:181:TYR:HD1	1.63	0.62
2:X:111:GLY:O	2:X:296:ARG:HG3	1.99	0.62
2:a:9:ASP:CB	2:a:82:ARG:HH11	2.12	0.62
2:a:127:ASP:HA	2:a:137:LEU:O	1.99	0.62
3:e:165:LEU:C	3:e:167:ALA:H	2.08	0.62
3:e:243:GLU:C	3:e:244:VAL:HG23	2.23	0.62
4:g:7:HIS:CE1	4:g:44:HIS:ND1	2.59	0.62
4:i:44:HIS:HB3	4:i:47:GLN:C	2.25	0.62
4:l:53:PHE:O	4:l:56:GLY:N	2.33	0.62
4:l:93:GLY:C	4:l:95:LYS:H	2.07	0.62
4:t:71:ASN:CB	4:t:74:ALA:HB3	2.29	0.62
1:A:90:MET:CE	1:B:31:SER:CA	2.71	0.62
1:B:83:LYS:HG3	1:B:305:THR:HG21	1.80	0.62
1:C:149:ASP:O	3:e:85:GLN:NE2	2.26	0.62
1:C:833:ASP:O	4:i:54:LEU:HD11	2.00	0.62
1:C:917:GLY:HA3	1:C:1034:VAL:CG2	2.21	0.62
1:D:236:LYS:NZ	1:D:1370:LYS:O	2.33	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:365:ALA:HB1	1:D:376:PHE:HE1	1.62	0.62
1:E:255:THR:OG1	1:E:1067:GLU:OE2	2.17	0.62
1:E:920:THR:O	1:E:1139:LEU:HD22	2.00	0.62
1:F:429:HIS:HB3	1:F:430:PRO:CD	2.30	0.62
1:F:918:ALA:HB2	1:F:1032:SER:HB3	1.82	0.62
1:F:1131:LEU:HD23	1:F:1159:PRO:HG3	1.82	0.62
1:I:269:THR:HG21	1:I:374:LEU:CD2	2.29	0.62
1:I:1290:GLU:CD	1:I:1290:GLU:H	2.07	0.62
1:J:216:ARG:NH2	1:J:1287:ARG:O	2.25	0.62
1:J:724:HIS:CE1	1:J:1028:TYR:HB2	2.35	0.62
1:K:1197:ASN:O	1:K:1199:PHE:O	2.17	0.62
1:L:521:VAL:HG22	1:L:521:VAL:O	1.98	0.62
1:L:790:ARG:HD3	4:q:103:VAL:C	2.25	0.62
1:N:377:LEU:HD12	1:N:378:GLU:H	1.65	0.62
1:N:407:GLY:HA2	1:N:437:PRO:O	2.00	0.62
1:N:1078:LEU:HG	3:V:82:ASP:OD1	1.98	0.62
1:O:487:TYR:HE1	1:O:505:PHE:HZ	1.48	0.62
1:P:843:VAL:O	1:P:843:VAL:HG13	2.00	0.62
2:Q:92:LEU:CD1	2:Q:93:THR:O	2.47	0.62
3:S:82:ASP:O	3:S:85:GLN:HG2	1.99	0.62
3:Y:109:HIS:ND1	3:Y:267:CYS:CB	2.62	0.62
3:Y:141:PRO:HG2	3:Y:157:LEU:C	2.23	0.62
3:Y:427:VAL:CG1	3:Y:428:MET:N	2.62	0.62
3:Y:436:LEU:HA	3:Y:450:VAL:HA	1.81	0.62
2:Z:92:LEU:CD1	2:Z:93:THR:O	2.47	0.62
3:e:137:PRO:HD2	3:e:138:THR:HA	1.81	0.62
4:h:44:HIS:HB3	4:h:47:GLN:C	2.25	0.62
4:i:1:MET:H3	4:i:5:GLN:CB	2.11	0.62
4:k:93:GLY:C	4:k:95:LYS:H	2.07	0.62
1:G:492:ALA:N	1:G:992:PRO:HB2	2.13	0.61
1:G:1198:TYR:HD2	1:G:1236:ARG:NH1	1.95	0.61
1:A:112:VAL:CB	1:B:132:ALA:HB2	2.30	0.61
1:A:295:VAL:HG22	1:A:368:VAL:HA	1.82	0.61
1:A:960:VAL:HA	1:A:994:LEU:HD13	1.82	0.61
1:B:1091:PHE:CZ	3:S:90:ILE:HG23	2.35	0.61
1:C:1034:VAL:HA	1:C:1147:LEU:HD22	1.81	0.61
1:C:1301:SER:OG	1:C:1319:GLU:HB2	1.99	0.61
1:D:276:GLY:HA2	1:D:1066:SER:O	2.00	0.61
1:D:538:ASN:C	1:D:540:ALA:N	2.58	0.61
1:D:1201:ARG:NH1	1:E:448:GLN:HB2	2.15	0.61
1:E:532:MET:HE2	1:E:534:PRO:HG2	1.79	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:532:MET:HE3	1:E:534:PRO:HG2	1.81	0.61
1:H:129:LEU:HD11	1:H:1097:ARG:HE	1.64	0.61
1:H:621:ARG:NH2	1:I:698:GLU:OE2	2.32	0.61
1:I:365:ALA:CB	1:I:376:PHE:HE1	2.13	0.61
1:I:419:HIS:CD2	1:I:420:ALA:H	2.18	0.61
1:I:563:VAL:HG12	1:I:564:PRO:CD	2.28	0.61
1:J:426:ALA:O	1:J:429:HIS:HB2	2.00	0.61
1:J:435:PHE:O	1:J:1359:THR:OG1	2.18	0.61
1:J:436:PRO:HG2	1:J:598:GLU:OE1	2.00	0.61
1:J:641:PHE:CE1	1:J:648:VAL:HG11	2.35	0.61
1:K:892:LEU:CD1	4:p:65:GLY:HA2	2.30	0.61
1:K:1277:PHE:O	1:K:1278:THR:CG2	2.47	0.61
1:L:804:ASP:HB3	1:L:808:HIS:HE1	1.63	0.61
1:M:269:THR:OG1	1:M:298:THR:OG1	2.07	0.61
1:M:527:THR:O	1:M:527:THR:CG2	2.23	0.61
1:N:920:THR:CG2	1:N:1138:LEU:HD23	2.30	0.61
1:P:176:PHE:O	1:P:180:THR:HG23	1.99	0.61
2:Q:178:VAL:O	2:Q:186:LEU:O	2.18	0.61
2:Q:181:TYR:N	2:Q:184:ALA:O	2.32	0.61
3:V:140:LEU:N	3:V:142:HIS:CE1	2.66	0.61
3:V:204:ALA:HB2	3:V:294:VAL:HG11	1.81	0.61
3:V:292:ALA:HB3	3:V:295:ASP:N	2.11	0.61
2:W:295:VAL:HG13	2:W:315:ILE:C	2.23	0.61
2:W:313:PRO:C	2:W:314:VAL:HG23	2.24	0.61
2:X:121:PHE:HE1	2:X:186:LEU:HB3	1.65	0.61
3:Y:287:THR:CB	3:Y:289:PRO:CD	2.77	0.61
2:Z:32:VAL:O	2:Z:73:ALA:N	2.31	0.61
3:b:214:ASN:C	3:b:215:TYR:HD1	2.08	0.61
2:c:306:VAL:HG21	2:c:312:ALA:CB	2.30	0.61
3:e:88:ASP:HA	3:e:91:LEU:HD12	1.80	0.61
4:m:53:PHE:O	4:m:56:GLY:N	2.33	0.61
4:s:44:HIS:HB3	4:s:47:GLN:C	2.25	0.61
1:G:832:PHE:CG	1:G:836:TYR:CE2	2.84	0.61
1:G:1072:ALA:HB3	1:G:1100:VAL:HG22	1.82	0.61
1:A:71:LEU:HD11	1:A:306:TYR:CE1	2.36	0.61
1:B:519:ARG:HG3	1:B:538:ASN:ND2	2.15	0.61
1:B:1080:VAL:HG13	1:B:1091:PHE:C	2.25	0.61
1:C:415:ARG:HH22	1:C:590:ALA:CB	2.13	0.61
1:C:766:ALA:CB	1:C:784:LEU:CD2	2.78	0.61
1:D:1241:THR:HG22	1:D:1247:SER:OG	2.00	0.61
1:E:646:ARG:CZ	4:k:78:MET:CB	2.78	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:78:ALA:C	1:H:1069:ALA:O	2.43	0.61
1:I:216:ARG:NH2	1:I:1287:ARG:O	2.32	0.61
1:J:750:ARG:HD2	1:J:915:ASP:HA	1.82	0.61
1:K:867:PRO:CB	4:q:80:ALA:HB3	2.23	0.61
1:K:1073:TYR:OH	1:K:1097:ARG:CD	2.48	0.61
1:N:714:LEU:HB2	1:N:722:LEU:HD11	1.80	0.61
1:O:737:TRP:HZ3	1:O:935:ALA:HB1	1.65	0.61
1:O:1354:ARG:HH22	1:O:1357:HIS:HD2	1.48	0.61
1:P:755:ARG:O	1:P:756:ILE:C	2.41	0.61
1:P:829:GLY:HA3	1:P:905:THR:HG21	1.82	0.61
2:W:92:LEU:CD1	2:W:93:THR:O	2.48	0.61
3:Y:447:VAL:HG12	3:Y:448:PRO:HD2	1.82	0.61
2:Z:306:VAL:HG21	2:Z:312:ALA:CB	2.30	0.61
3:b:128:GLY:HA3	3:b:287:THR:O	2.01	0.61
3:e:38:ARG:CB	3:e:43:ARG:HH12	2.13	0.61
4:f:44:HIS:HB3	4:f:47:GLN:C	2.25	0.61
4:g:3:ALA:HB2	4:g:38:ASN:O	1.97	0.61
4:k:104:ARG:O	4:k:106:PRO:CD	2.48	0.61
4:n:53:PHE:O	4:n:56:GLY:N	2.33	0.61
4:p:8:ARG:CB	4:p:18:ARG:N	2.63	0.61
4:r:1:MET:H2	4:r:5:GLN:CB	2.13	0.61
4:r:87:TRP:O	4:r:88:LEU:HD23	2.00	0.61
1:A:358:PRO:C	1:A:359:GLN:OE1	2.42	0.61
1:B:766:ALA:HB2	1:B:782:ARG:HD3	1.83	0.61
1:E:156:HIS:HE1	1:E:160:ARG:HH11	1.47	0.61
1:E:1354:ARG:HH22	1:E:1357:HIS:HD2	1.46	0.61
1:F:1198:TYR:O	1:F:1203:CYS:SG	2.56	0.61
1:H:84:PHE:HD1	1:H:309:MET:CG	2.13	0.61
1:I:193:PRO:HG3	1:I:1294:VAL:HG12	1.81	0.61
1:I:397:ALA:HB3	1:I:1321:VAL:HG22	1.82	0.61
1:I:960:VAL:HA	1:I:994:LEU:HD13	1.82	0.61
1:I:1121:ASP:OD1	1:I:1121:ASP:N	2.32	0.61
1:J:728:ASP:O	1:J:810:LYS:NZ	2.31	0.61
1:J:759:GLY:HA2	1:J:780:ASP:HA	1.83	0.61
1:K:981:ARG:HH22	1:L:803:ALA:H	1.48	0.61
1:K:1233:ASP:HB3	1:K:1236:ARG:O	2.00	0.61
1:L:1113:ALA:O	1:L:1114:THR:HG23	1.99	0.61
1:M:1347:ARG:HH21	1:M:1347:ARG:CG	2.10	0.61
1:N:70:PHE:O	1:N:70:PHE:CD2	2.53	0.61
1:O:124:ILE:HG12	1:O:1100:VAL:CG2	2.30	0.61
2:Q:313:PRO:C	2:Q:314:VAL:HG23	2.24	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R:97:THR:HG21	2:R:300:PHE:CE2	2.34	0.61
2:X:128:VAL:HG22	2:X:128:VAL:O	2.00	0.61
3:b:197:ALA:HB1	3:b:324:LEU:CD1	2.29	0.61
4:g:93:GLY:C	4:g:95:LYS:H	2.08	0.61
4:l:21:GLY:O	4:l:23:ARG:N	2.33	0.61
4:n:20:LEU:HB3	4:n:25:LEU:HG	1.83	0.61
4:q:3:ALA:HB2	4:q:38:ASN:O	1.97	0.61
4:q:92:PHE:HA	4:q:102:VAL:CB	2.31	0.61
4:t:44:HIS:HB3	4:t:47:GLN:C	2.25	0.61
1:G:426:ALA:HB3	1:G:429:HIS:NE2	2.15	0.61
1:A:208:GLY:CA	1:B:389:ASN:HA	2.28	0.61
1:A:310:VAL:HG23	1:B:58:LEU:HD23	1.82	0.61
1:A:454:MET:HB3	1:A:1040:LEU:HD22	1.81	0.61
1:A:530:GLN:CG	1:A:536:ASN:ND2	2.24	0.61
1:A:1301:SER:HB3	1:A:1321:VAL:HB	1.82	0.61
1:F:730:ALA:HB2	1:F:750:ARG:HH12	1.63	0.61
1:F:840:GLN:OE1	4:l:58:ALA:CB	2.48	0.61
1:H:129:LEU:O	1:H:1094:THR:O	2.19	0.61
1:H:892:LEU:HD11	4:m:65:GLY:HA2	1.82	0.61
1:I:889:PRO:CD	4:n:69:ALA:HB1	2.30	0.61
1:I:1165:VAL:HG23	1:I:1166:PHE:H	1.66	0.61
1:J:431:GLU:OE2	1:J:1358:PHE:HE2	1.83	0.61
1:J:1048:PHE:CE2	1:J:1050:PHE:HE1	2.18	0.61
1:K:458:VAL:O	1:K:462:CYS:HB2	2.00	0.61
1:K:840:GLN:OE1	4:p:58:ALA:HB1	1.99	0.61
1:K:1113:ALA:C	1:K:1114:THR:HG23	2.25	0.61
1:M:1216:GLY:N	1:M:1221:ASP:OD2	2.32	0.61
1:O:752:ARG:CG	1:O:927:ARG:CD	2.70	0.61
1:O:778:ARG:HD3	1:O:903:GLU:HG3	1.81	0.61
1:P:135:LEU:HD21	1:P:165:LEU:HD12	1.83	0.61
2:Q:160:ILE:HG23	2:R:223:LEU:CD2	2.29	0.61
2:Q:306:VAL:HG21	2:Q:312:ALA:CB	2.30	0.61
3:V:300:LEU:CD2	3:V:333:GLN:H	2.13	0.61
2:W:182:ASN:CG	2:W:183:GLY:H	2.08	0.61
2:a:32:VAL:HG12	2:a:34:LEU:HD23	1.81	0.61
2:c:228:LEU:CD2	2:c:241:LEU:CB	2.73	0.61
3:e:25:ARG:O	3:e:29:GLY:N	2.33	0.61
4:g:53:PHE:O	4:g:56:GLY:N	2.33	0.61
4:o:44:HIS:HB3	4:o:47:GLN:C	2.25	0.61
4:q:77:PRO:CD	4:q:80:ALA:HB2	2.29	0.61
4:t:53:PHE:O	4:t:56:GLY:N	2.33	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:330:ASP:O	1:G:331:ASP:C	2.41	0.61
1:A:112:VAL:O	1:A:113:GLU:C	2.43	0.61
1:B:621:ARG:HG3	1:B:621:ARG:NH1	2.11	0.61
1:B:1157:LEU:HD21	1:B:1309:VAL:HG11	1.83	0.61
1:B:1278:THR:CG2	1:B:1281:ASP:HB2	2.29	0.61
1:C:403:VAL:HG23	1:C:1331:ALA:CB	2.21	0.61
1:C:494:PRO:HB2	1:C:757:ASP:CB	2.31	0.61
1:D:768:ALA:HA	1:D:786:ASN:HD22	0.80	0.61
1:D:1198:TYR:CD1	1:D:1236:ARG:NH1	2.68	0.61
1:H:838:THR:CG2	4:n:94:LEU:HA	2.30	0.61
1:H:905:THR:CG2	1:H:956:TYR:OH	2.48	0.61
1:H:1221:ASP:N	1:H:1221:ASP:OD1	2.33	0.61
1:I:135:LEU:HB2	1:I:1089:VAL:HG22	1.82	0.61
1:I:780:ASP:OD1	1:I:780:ASP:N	2.33	0.61
1:I:845:PRO:HG2	1:I:862:ALA:HA	1.81	0.61
1:I:1277:PHE:O	1:I:1278:THR:HG23	2.00	0.61
1:J:260:ALA:HA	1:J:1068:ARG:NH2	2.15	0.61
1:J:272:ARG:CG	1:J:374:LEU:HD22	2.29	0.61
1:J:278:LEU:CB	1:J:375:VAL:CG1	2.74	0.61
1:J:724:HIS:HE1	1:J:1025:MET:O	1.84	0.61
1:J:1160:ALA:HB2	1:J:1172:PRO:HG3	1.82	0.61
1:J:1256:LEU:CB	1:J:1263:LEU:HD23	2.30	0.61
1:K:730:ALA:HB2	1:K:750:ARG:NH1	2.15	0.61
1:K:958:LEU:HG	1:K:994:LEU:HD11	1.82	0.61
1:L:193:PRO:HG3	1:L:1294:VAL:CG1	2.27	0.61
1:L:841:ASN:CB	4:q:57:GLN:HE21	2.11	0.61
1:L:1166:PHE:CA	3:Y:140:LEU:HD22	2.30	0.61
1:M:77:VAL:HA	1:M:266:HIS:NE2	2.16	0.61
1:O:417:ALA:O	1:O:1357:HIS:CD2	2.53	0.61
1:O:1225:LEU:HD13	1:P:1176:GLY:N	2.15	0.61
2:Q:32:VAL:O	2:Q:72:PRO:HA	2.01	0.61
3:S:292:ALA:CB	3:S:295:ASP:N	2.56	0.61
3:S:347:PHE:HB2	3:S:350:LEU:HD11	1.82	0.61
2:U:159:GLY:HA3	2:U:193:GLN:HE21	1.66	0.61
3:Y:25:ARG:O	3:Y:29:GLY:N	2.33	0.61
2:c:32:VAL:O	2:c:72:PRO:HA	2.01	0.61
2:c:313:PRO:C	2:c:314:VAL:HG23	2.24	0.61
3:e:39:PRO:HB3	3:e:42:ALA:CA	2.31	0.61
3:e:204:ALA:HB2	3:e:294:VAL:HG11	1.81	0.61
4:r:44:HIS:HB3	4:r:47:GLN:C	2.25	0.61
1:G:153:ILE:HG21	1:G:157:ARG:HD2	1.81	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:553:VAL:HG11	1:G:565:PRO:O	2.00	0.61
1:G:1285:LYS:NZ	1:G:1300:VAL:HG11	2.15	0.61
1:A:203:ARG:HG3	1:B:1116:ARG:HH12	1.65	0.61
1:B:903:GLU:HG2	1:B:904:ARG:HG2	1.81	0.61
1:B:1057:ARG:NH2	1:B:1319:GLU:OE2	2.34	0.61
1:B:1091:PHE:CE2	3:S:90:ILE:HG23	2.36	0.61
1:C:122:LYS:HG3	1:M:36:PHE:CD2	2.36	0.61
1:C:247:TRP:HE3	1:C:248:LEU:HD12	1.66	0.61
1:C:439:GLN:HA	1:C:453:SER:HA	1.83	0.61
1:C:646:ARG:CZ	4:i:78:MET:CB	2.78	0.61
1:F:443:TRP:HZ2	1:F:1347:ARG:HH21	1.48	0.61
1:F:638:GLU:OE1	1:F:789:ALA:HB2	2.00	0.61
1:I:985:ARG:HD2	1:J:705:ASP:OD2	2.00	0.61
1:J:81:CYS:HB2	1:J:306:TYR:CD1	2.36	0.61
1:J:1347:ARG:HH11	1:J:1347:ARG:CG	2.11	0.61
1:K:1176:GLY:HA3	1:P:1225:LEU:HD23	1.81	0.61
1:L:71:LEU:HD21	1:L:305:THR:C	2.26	0.61
1:N:920:THR:HG23	1:N:1138:LEU:HD23	1.82	0.61
1:N:1120:THR:HG22	1:N:1122:MET:H	1.66	0.61
1:N:1315:PRO:CB	3:V:116:LEU:HD11	2.31	0.61
1:O:840:GLN:HE22	4:s:58:ALA:CB	1.99	0.61
1:O:1155:ASN:HB2	1:O:1158:GLY:HA3	1.80	0.61
1:O:1291:ARG:O	1:O:1294:VAL:N	2.29	0.61
1:P:27:ILE:HB	1:P:29:VAL:CG2	2.30	0.61
2:W:211:TYR:CE1	2:X:241:LEU:HD23	2.36	0.61
2:Z:32:VAL:O	2:Z:72:PRO:HA	2.01	0.61
2:a:16:ILE:O	2:a:16:ILE:HG23	2.00	0.61
2:a:35:PRO:CD	2:a:45:ASP:O	2.48	0.61
2:a:120:VAL:HG22	2:a:120:VAL:O	2.00	0.61
4:k:44:HIS:HB3	4:k:47:GLN:C	2.25	0.61
4:k:53:PHE:O	4:k:56:GLY:N	2.33	0.61
4:t:46:THR:CG2	4:t:50:VAL:HG12	2.30	0.61
1:G:558:LEU:O	1:G:560:GLY:N	2.33	0.61
1:G:726:MET:HE3	1:G:815:VAL:HG23	1.82	0.61
1:G:1067:GLU:HG2	1:G:1107:THR:HG22	1.83	0.61
1:A:529:GLU:O	1:A:532:MET:HG2	2.01	0.61
1:A:1013:SER:OG	1:A:1020:LEU:HD22	2.00	0.61
1:B:520:TRP:CD2	1:B:997:ASN:ND2	2.68	0.61
1:C:124:ILE:HG12	1:C:1100:VAL:HG23	1.81	0.61
1:C:485:ASN:HD21	1:C:516:GLY:HA3	1.66	0.61
1:C:804:ASP:O	1:C:805:TRP:C	2.42	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1277:PHE:O	1:D:1278:THR:HG23	2.01	0.61
1:E:30:ALA:C	1:E:33:ARG:H	2.02	0.61
1:E:624:PRO:HB3	1:E:882:GLY:HA3	1.82	0.61
1:E:1107:THR:HG22	1:E:1108:ALA:H	1.65	0.61
1:F:274:VAL:HG11	1:F:376:PHE:CE2	2.36	0.61
1:F:1229:HIS:NE2	1:F:1241:THR:CG2	2.63	0.61
1:H:439:GLN:NE2	1:H:451:ARG:NH2	2.47	0.61
1:H:452:LEU:HD21	1:H:456:ASN:ND2	2.12	0.61
1:I:252:THR:HG22	1:I:373:ARG:HD3	1.81	0.61
1:J:105:ALA:O	1:J:106:ARG:CG	2.48	0.61
1:J:231:SER:O	1:J:236:LYS:CE	2.49	0.61
1:J:258:SER:OG	1:J:1102:LEU:O	2.16	0.61
1:J:399:ASP:O	1:J:1324:PRO:CD	2.48	0.61
1:J:400:LEU:CG	1:J:1368:PRO:HG2	2.31	0.61
1:J:840:GLN:OE1	4:o:58:ALA:CA	2.48	0.61
1:K:155:LEU:HD22	1:K:158:GLN:NE2	2.15	0.61
1:K:248:LEU:HB3	1:K:370:ILE:HG21	1.81	0.61
1:L:445:LYS:O	1:L:446:ASP:HB2	1.98	0.61
1:L:737:TRP:HZ3	1:L:935:ALA:HB1	1.64	0.61
1:M:69:ARG:NH1	3:e:42:ALA:N	2.46	0.61
1:M:1161:GLN:CB	1:M:1162:PRO:CD	2.51	0.61
1:N:527:THR:HG21	1:N:1193:ALA:O	2.00	0.61
1:N:998:TYR:O	1:N:1003:ARG:NH2	2.33	0.61
1:N:1160:ALA:C	1:N:1161:GLN:HG2	2.26	0.61
1:P:280:THR:O	1:P:392:TYR:OH	2.16	0.61
2:Q:211:TYR:CE1	2:R:241:LEU:HD23	2.36	0.61
2:R:129:ARG:HD2	2:R:136:THR:CG2	2.00	0.61
3:S:204:ALA:HB2	3:S:294:VAL:HG11	1.81	0.61
3:V:80:ARG:O	3:V:84:GLU:CB	2.48	0.61
2:Z:217:THR:C	2:Z:221:LEU:CD2	2.74	0.61
3:b:25:ARG:O	3:b:29:GLY:N	2.33	0.61
2:d:159:GLY:HA3	2:d:193:GLN:HE21	1.66	0.61
4:f:46:THR:CG2	4:f:50:VAL:HG11	2.18	0.61
4:g:44:HIS:HB3	4:g:47:GLN:C	2.25	0.61
4:h:46:THR:CG2	4:h:50:VAL:HG12	2.30	0.61
4:i:3:ALA:HB2	4:i:38:ASN:O	1.97	0.61
4:l:46:THR:CG2	4:l:50:VAL:HG12	2.30	0.61
4:m:93:GLY:C	4:m:95:LYS:H	2.07	0.61
4:n:44:HIS:HB3	4:n:47:GLN:C	2.25	0.61
4:n:46:THR:CG2	4:n:50:VAL:HG12	2.30	0.61
4:n:93:GLY:C	4:n:95:LYS:H	2.07	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:q:93:GLY:C	4:q:95:LYS:H	2.07	0.61
1:G:1279:ALA:O	1:G:1283:THR:HB	2.00	0.61
1:A:84:PHE:CD2	1:A:87:LEU:HB3	2.36	0.61
1:A:1279:ALA:O	1:A:1283:THR:N	2.23	0.61
1:B:1316:GLY:HA3	3:S:260:LEU:CD2	2.27	0.61
1:C:301:ASP:O	1:C:303:PRO:HD3	2.01	0.61
1:C:309:MET:HE1	1:C:1074:PHE:CE1	2.36	0.61
1:D:733:PRO:HG2	1:D:736:VAL:HG22	1.80	0.61
1:D:883:ARG:O	1:D:884:VAL:HG23	2.00	0.61
1:F:842:MET:CG	4:l:61:LEU:HD21	2.28	0.61
1:H:129:LEU:HD12	1:H:1097:ARG:NE	2.07	0.61
1:H:182:ASP:OD1	1:H:385:TYR:OH	2.19	0.61
1:H:189:LEU:HD13	1:H:1064:LEU:CD2	2.25	0.61
1:H:266:HIS:HE1	1:H:376:PHE:CE2	2.19	0.61
1:I:90:MET:HB3	1:J:54:PHE:CE1	2.35	0.61
1:J:34:ARG:NH2	1:K:1288:CYS:SG	2.74	0.61
1:J:71:LEU:C	1:J:76:SER:HB2	2.09	0.61
1:J:232:PHE:HB2	1:J:236:LYS:HE3	1.83	0.61
1:J:861:PRO:O	1:J:869:ASN:ND2	2.34	0.61
1:K:280:THR:CG2	1:K:284:ILE:HG22	2.30	0.61
1:K:439:GLN:CD	1:K:451:ARG:NH1	2.57	0.61
1:L:1152:VAL:HG13	1:L:1159:PRO:HD2	1.81	0.61
1:M:883:ARG:NH2	4:r:88:LEU:HD13	2.15	0.61
1:N:196:ALA:HB1	1:N:227:PHE:HA	1.82	0.61
1:N:591:PHE:HZ	1:N:1045:HIS:CD2	2.18	0.61
1:N:656:TRP:CD2	1:N:686:CYS:HB3	2.35	0.61
1:N:895:GLN:HB2	4:r:62:THR:HG22	1.83	0.61
1:O:198:LEU:HD12	1:O:1109:VAL:HG21	1.83	0.61
1:O:302:VAL:HG13	1:O:360:THR:HB	1.83	0.61
1:O:1229:HIS:NE2	1:O:1241:THR:CG2	2.64	0.61
2:R:16:ILE:N	2:R:132:SER:CB	2.64	0.61
2:R:120:VAL:HG22	2:R:120:VAL:O	2.00	0.61
2:T:228:LEU:CD2	2:T:241:LEU:CB	2.73	0.61
2:X:122:GLU:CB	2:X:187:SER:OG	2.49	0.61
3:b:290:ALA:CB	3:b:296:LEU:HD22	2.30	0.61
2:d:111:GLY:O	2:d:296:ARG:HG3	1.99	0.61
4:f:53:PHE:O	4:f:56:GLY:N	2.33	0.61
4:q:23:ARG:C	4:q:25:LEU:N	2.59	0.61
4:q:44:HIS:HB3	4:q:47:GLN:C	2.25	0.61
1:A:1218:LYS:NZ	1:B:1173:ARG:HH21	1.98	0.61
1:D:77:VAL:CG1	1:D:277:VAL:HG22	2.31	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:953:GLU:HG2	1:D:954:TYR:N	2.14	0.61
1:F:458:VAL:O	1:F:462:CYS:HB2	2.00	0.61
1:H:1037:TYR:O	1:H:1041:LYS:HG2	2.00	0.61
1:I:532:MET:HG3	1:I:535:ASP:CB	2.31	0.61
1:I:847:ILE:CG2	4:n:70:ASN:O	2.47	0.61
1:J:47:ASN:ND2	1:L:137:THR:HG22	2.16	0.61
1:J:879:PHE:O	1:J:882:GLY:O	2.19	0.61
1:J:1206:ARG:NH2	1:J:1247:SER:HB2	2.15	0.61
1:J:1300:VAL:CG1	1:J:1318:ARG:CG	2.78	0.61
1:K:155:LEU:HD13	1:K:155:LEU:C	2.25	0.61
1:L:267:ALA:HB1	1:L:272:ARG:O	2.00	0.61
1:M:407:GLY:HA2	1:M:437:PRO:O	2.01	0.61
1:M:462:CYS:HB3	1:M:1037:TYR:OH	2.01	0.61
1:N:467:MET:O	1:N:922:SER:OG	2.14	0.61
1:N:780:ASP:OD2	1:N:782:ARG:NH1	2.34	0.61
1:O:759:GLY:C	1:O:781:GLY:CA	2.74	0.61
1:O:833:ASP:OD1	1:O:834:ARG:N	2.34	0.61
1:O:915:ASP:OD1	1:O:915:ASP:N	2.31	0.61
1:P:267:ALA:CB	1:P:274:VAL:HB	2.30	0.61
1:P:739:CYS:O	1:P:743:MET:HG2	2.01	0.61
2:R:16:ILE:N	2:R:132:SER:HB2	2.16	0.61
3:S:299:GLU:C	3:S:300:LEU:HD22	2.24	0.61
3:S:313:VAL:HA	3:S:421:ALA:O	2.01	0.61
3:V:81:ASP:O	3:V:85:GLN:HG2	1.99	0.61
2:W:32:VAL:O	2:W:72:PRO:HA	2.01	0.61
2:X:159:GLY:HA3	2:X:193:GLN:HE21	1.66	0.61
2:Z:211:TYR:CE1	2:a:241:LEU:HD23	2.36	0.61
4:i:77:PRO:CD	4:i:80:ALA:HB2	2.29	0.61
4:q:53:PHE:O	4:q:56:GLY:N	2.33	0.61
4:t:3:ALA:HB2	4:t:38:ASN:O	1.97	0.61
1:G:1208:ARG:NH2	1:G:1240:ALA:O	2.34	0.61
1:A:208:GLY:HA2	1:B:389:ASN:C	2.26	0.61
1:B:1241:THR:CG2	1:B:1247:SER:OG	2.49	0.61
1:D:1174:ARG:HH11	1:D:1174:ARG:CB	2.13	0.61
1:F:834:ARG:HG2	4:g:94:LEU:CB	2.31	0.61
1:F:1037:TYR:CE1	1:F:1147:LEU:HD11	2.35	0.61
1:F:1054:ARG:HH12	1:F:1122:MET:C	2.09	0.61
1:H:532:MET:C	1:H:534:PRO:CD	2.64	0.61
1:J:263:ARG:NE	1:J:307:GLY:HA2	2.15	0.61
1:J:641:PHE:O	1:J:645:ALA:N	2.34	0.61
1:J:671:VAL:HG13	1:J:690:TYR:HD1	1.65	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:456:ASN:OD1	1:L:1126:PRO:HG3	2.01	0.61
1:M:261:VAL:N	1:M:1068:ARG:HH22	1.99	0.61
1:N:43:ARG:O	1:N:44:SER:HB2	2.01	0.61
1:O:756:ILE:HD13	1:O:783:LEU:HD11	1.82	0.61
1:P:1057:ARG:O	1:P:1118:PRO:O	2.18	0.61
2:R:159:GLY:HA3	2:R:193:GLN:HE21	1.66	0.61
2:T:306:VAL:HG21	2:T:312:ALA:CB	2.30	0.61
2:U:129:ARG:HH11	2:U:136:THR:HG23	1.65	0.61
2:X:13:PRO:CD	2:X:43:LEU:HD23	2.28	0.61
2:X:38:ARG:NH2	3:Y:305:PRO:CD	2.64	0.61
3:Y:418:THR:HG23	3:Y:418:THR:O	2.01	0.61
2:a:35:PRO:HD3	2:a:46:VAL:HA	1.83	0.61
2:c:124:GLN:N	2:c:124:GLN:HE21	1.99	0.61
2:c:211:TYR:CE1	2:d:241:LEU:HD23	2.36	0.61
3:e:300:LEU:HD13	3:e:333:GLN:NE2	2.15	0.61
4:q:46:THR:CG2	4:q:50:VAL:HG11	2.18	0.61
1:A:892:LEU:HD11	4:g:65:GLY:C	2.26	0.60
1:B:416:PHE:HD1	1:B:418:ALA:H	1.48	0.60
1:B:1029:PHE:HB3	1:B:1039:GLN:HE21	1.66	0.60
1:D:129:LEU:HD23	1:D:183:GLN:OE1	2.01	0.60
1:D:234:LEU:HD23	1:D:1113:ALA:HB1	1.83	0.60
1:D:269:THR:O	1:D:270:ARG:HB3	2.00	0.60
1:D:873:ASN:OD1	4:k:92:PHE:CA	2.48	0.60
1:E:258:SER:CB	1:E:1103:GLY:HA2	2.31	0.60
1:E:458:VAL:O	1:E:462:CYS:HB2	2.00	0.60
1:E:520:TRP:CG	1:E:997:ASN:HD22	2.19	0.60
1:F:178:ARG:NH1	1:F:384:ILE:HA	2.15	0.60
1:F:462:CYS:O	1:F:1037:TYR:OH	2.16	0.60
1:F:520:TRP:CD2	1:F:997:ASN:ND2	2.68	0.60
1:H:356:SER:O	1:H:357:ALA:HB2	2.01	0.60
1:I:414:GLU:HG3	1:J:1344:ARG:HH22	1.66	0.60
1:I:1224:ALA:HB3	1:J:1175:ALA:HB2	1.83	0.60
1:J:160:ARG:NH1	1:L:14:ALA:HB2	2.15	0.60
1:J:396:GLY:N	1:J:1060:THR:O	2.24	0.60
1:J:422:ASP:H	1:J:424:VAL:HG23	1.66	0.60
1:J:461:VAL:HB	1:J:1050:PHE:CZ	2.36	0.60
1:J:986:HIS:O	1:J:987:VAL:HG23	2.01	0.60
1:J:1063:VAL:HG23	1:J:1111:ALA:HB3	1.82	0.60
1:K:302:VAL:N	1:K:303:PRO:HD3	2.16	0.60
1:K:814:TYR:O	1:K:818:PRO:HG2	2.01	0.60
1:K:1201:ARG:HH11	1:L:448:GLN:HE21	1.49	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:527:THR:OG1	1:M:585:ALA:O	2.15	0.60
1:O:417:ALA:O	1:O:1357:HIS:HD2	1.84	0.60
1:P:266:HIS:HA	1:P:303:PRO:HA	1.83	0.60
1:P:433:ARG:NH2	1:P:1339:ASP:CB	2.59	0.60
2:Q:105:PRO:HG2	2:Q:186:LEU:CD1	2.31	0.60
2:Q:179:LEU:O	2:Q:179:LEU:HD23	2.01	0.60
2:T:182:ASN:ND2	3:V:136:HIS:HE1	1.99	0.60
3:V:134:LEU:HD22	3:V:185:VAL:CG2	2.32	0.60
2:W:106:VAL:HG13	2:W:305:VAL:HG12	1.81	0.60
3:b:161:TRP:CZ3	3:b:165:LEU:HD22	2.36	0.60
4:f:23:ARG:C	4:f:25:LEU:N	2.59	0.60
4:f:23:ARG:O	4:f:25:LEU:N	2.34	0.60
4:g:46:THR:CG2	4:g:50:VAL:HG12	2.30	0.60
4:o:93:GLY:C	4:o:95:LYS:H	2.07	0.60
4:s:23:ARG:O	4:s:25:LEU:N	2.34	0.60
1:G:1131:LEU:HG	1:G:1159:PRO:HD3	1.81	0.60
1:A:321:VAL:HG13	1:A:326:VAL:CB	2.24	0.60
1:A:521:VAL:HA	1:A:523:GLU:HG2	1.82	0.60
1:B:1277:PHE:O	1:B:1278:THR:HB	2.00	0.60
1:D:356:SER:O	1:D:357:ALA:C	2.43	0.60
1:D:417:ALA:HB2	1:D:1358:PHE:CZ	2.37	0.60
1:D:439:GLN:HA	1:D:453:SER:HA	1.83	0.60
1:D:1316:GLY:O	1:D:1317:CYS:HB2	2.01	0.60
1:F:917:GLY:HA2	1:F:1138:LEU:HD13	1.81	0.60
1:F:1008:GLN:HE22	1:F:1011:ARG:NH1	2.00	0.60
1:H:401:THR:HG23	1:H:1275:LYS:NZ	2.15	0.60
1:H:1114:THR:O	1:H:1115:VAL:HG12	2.01	0.60
1:I:69:ARG:HD2	3:Y:42:ALA:HB3	1.83	0.60
1:I:840:GLN:O	1:I:842:MET:CE	2.49	0.60
1:I:876:ASN:HA	1:I:879:PHE:HD2	1.66	0.60
1:I:1165:VAL:HG13	2:X:240:LEU:HA	1.83	0.60
1:J:1050:PHE:HB2	1:J:1187:PHE:HD1	1.66	0.60
1:K:339:MET:HG2	1:L:159:LEU:HD21	1.81	0.60
1:L:110:HIS:O	2:c:38:ARG:CZ	2.48	0.60
1:M:541:LEU:CD2	1:M:571:ILE:HD11	2.31	0.60
1:N:1301:SER:HB3	1:N:1321:VAL:HG21	1.81	0.60
1:O:418:ALA:HB2	1:O:1354:ARG:HH21	1.65	0.60
1:O:476:VAL:CG1	1:O:571:ILE:HD11	2.30	0.60
3:S:288:ILE:HG23	3:S:457:TRP:HH2	1.66	0.60
2:W:306:VAL:HG21	2:W:312:ALA:CB	2.30	0.60
3:Y:287:THR:CG2	3:Y:289:PRO:CD	2.33	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Z:106:VAL:HG13	2:Z:305:VAL:HG12	1.82	0.60
2:a:161:ARG:CD	2:a:173:LEU:HD23	2.31	0.60
3:b:139:ASP:CG	3:b:141:PRO:HB3	2.26	0.60
4:h:15:ASP:O	4:h:16:ASN:CB	2.49	0.60
4:h:86:GLU:H	4:h:105:ASP:CB	2.14	0.60
4:j:44:HIS:HB3	4:j:47:GLN:C	2.25	0.60
4:o:23:ARG:O	4:o:25:LEU:N	2.34	0.60
4:r:53:PHE:O	4:r:56:GLY:N	2.33	0.60
1:G:1299:ALA:HB2	1:G:1321:VAL:CB	2.28	0.60
1:A:293:LEU:HD23	1:A:368:VAL:HG21	1.81	0.60
1:A:481:VAL:O	1:A:569:GLY:C	2.44	0.60
1:A:483:ALA:N	1:A:569:GLY:HA3	2.16	0.60
1:A:1218:LYS:HD2	1:B:1173:ARG:CZ	2.32	0.60
1:B:71:LEU:CD2	1:B:302:VAL:O	2.48	0.60
1:C:708:THR:HG23	1:C:1038:HIS:CD2	2.37	0.60
1:E:301:ASP:C	1:E:303:PRO:HD3	2.26	0.60
1:H:252:THR:HG23	1:H:373:ARG:HD2	1.83	0.60
1:H:300:ALA:HB1	1:H:362:ARG:HD3	0.63	0.60
1:H:1211:GLY:N	1:H:1329:GLN:HG2	2.15	0.60
1:I:842:MET:SD	4:n:61:LEU:HD22	2.42	0.60
1:J:494:PRO:HB2	1:J:757:ASP:CB	2.32	0.60
1:J:553:VAL:HG21	1:J:556:VAL:HG21	1.82	0.60
1:J:1259:GLY:O	1:J:1262:HIS:ND1	2.35	0.60
1:K:155:LEU:HB3	1:P:340:GLN:NE2	2.09	0.60
1:K:904:ARG:HH12	1:K:906:THR:HG23	1.64	0.60
1:K:1191:PRO:HD3	1:K:1245:TRP:CE3	2.35	0.60
1:L:700:LEU:O	1:L:1025:MET:HE2	2.00	0.60
1:N:106:ARG:NH2	1:O:390:VAL:HG13	2.16	0.60
1:N:1031:MET:HE2	1:N:1048:PHE:HE2	1.66	0.60
1:P:297:ASP:HB2	1:P:367:LEU:O	2.01	0.60
2:T:63:LEU:HB3	2:T:67:TYR:HE1	1.67	0.60
2:T:100:LEU:O	2:T:311:MET:HA	2.02	0.60
2:U:38:ARG:NE	3:V:305:PRO:HD2	2.15	0.60
2:U:92:LEU:HD21	2:U:316:ARG:HA	1.83	0.60
3:V:286:VAL:O	3:V:287:THR:OG1	2.19	0.60
3:Y:88:ASP:CG	3:Y:91:LEU:HD12	2.26	0.60
2:Z:124:GLN:HE21	2:Z:124:GLN:N	1.99	0.60
2:Z:219:LEU:N	2:a:246:VAL:HG11	2.16	0.60
3:b:235:VAL:CG1	3:b:323:GLU:O	2.48	0.60
2:c:156:VAL:O	2:c:160:ILE:HG12	2.01	0.60
2:d:92:LEU:HD21	2:d:316:ARG:HA	1.83	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:e:121:GLN:HB3	3:e:215:TYR:CD2	2.36	0.60
4:f:46:THR:CG2	4:f:50:VAL:HG12	2.30	0.60
4:g:103:VAL:O	4:g:104:ARG:C	2.41	0.60
4:h:22:MET:O	4:h:25:LEU:CB	2.46	0.60
1:G:295:VAL:HG22	1:G:369:ALA:CB	2.32	0.60
1:B:1073:TYR:HA	1:B:1098:GLY:O	2.01	0.60
1:E:248:LEU:CD2	1:E:293:LEU:HD11	2.29	0.60
1:F:269:THR:HB	1:F:298:THR:CG2	2.29	0.60
1:F:450:LEU:HD22	1:F:1124:ASN:ND2	2.14	0.60
1:F:700:LEU:O	1:F:1025:MET:HE2	2.01	0.60
1:I:580:GLY:HA2	1:I:592:ARG:HH12	1.65	0.60
1:I:895:GLN:HB2	4:n:62:THR:HG22	1.81	0.60
1:J:13:TYR:CE1	1:J:49:LEU:HD23	2.35	0.60
1:J:376:PHE:O	1:J:378:GLU:HG3	2.01	0.60
1:J:407:GLY:O	1:J:1192:VAL:HG12	2.02	0.60
1:J:454:MET:SD	1:J:1045:HIS:CE1	2.94	0.60
1:J:914:PRO:HB2	1:J:919:ASN:CA	2.31	0.60
1:J:1045:HIS:CD2	1:J:1047:GLY:N	2.64	0.60
1:K:439:GLN:CD	1:K:451:ARG:HD2	2.26	0.60
1:K:584:LEU:HD11	1:K:1008:GLN:HB3	1.81	0.60
1:L:91:ASN:HB3	1:M:55:ASP:OD1	2.00	0.60
1:L:331:ASP:HA	1:L:334:ARG:HG2	1.82	0.60
1:L:776:PHE:HA	1:L:903:GLU:HB2	1.83	0.60
1:L:1225:LEU:HD23	1:M:1176:GLY:HA3	1.83	0.60
1:L:1270:LEU:HD22	1:L:1303:ALA:HB2	1.82	0.60
1:M:206:ASP:O	1:M:207:ASN:CB	2.47	0.60
1:N:261:VAL:HG23	1:N:261:VAL:O	2.01	0.60
2:U:120:VAL:O	2:U:120:VAL:HG22	2.00	0.60
3:V:275:HIS:CD2	3:V:280:GLY:HA2	2.29	0.60
2:X:129:ARG:HH11	2:X:136:THR:HG23	1.65	0.60
2:a:162:ASP:O	2:a:165:PRO:CB	2.46	0.60
3:b:279:PRO:CG	3:b:283:CYS:H	2.15	0.60
4:f:93:GLY:C	4:f:95:LYS:H	2.07	0.60
4:o:18:ARG:HA	4:o:56:GLY:CA	2.31	0.60
1:G:408:LEU:HD21	1:G:1194:THR:HB	1.82	0.60
1:A:829:GLY:HA3	1:A:956:TYR:CE2	2.36	0.60
1:A:847:ILE:CG2	4:g:70:ASN:O	2.49	0.60
1:A:847:ILE:HG22	4:g:67:THR:O	2.01	0.60
1:B:1347:ARG:HG3	1:B:1347:ARG:NH2	2.13	0.60
1:C:642:CYS:O	4:i:87:TRP:CB	2.49	0.60
1:D:35:LEU:HA	1:L:1291:ARG:NH2	2.05	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:62:CYS:SG	1:D:63:ASN:N	2.73	0.60
1:I:1131:LEU:CB	1:I:1267:SER:HB2	2.32	0.60
1:J:84:PHE:HE2	1:J:90:MET:HE1	1.66	0.60
1:K:801:ARG:HH11	1:K:805:TRP:NE1	1.99	0.60
1:M:749:ASP:O	1:M:752:ARG:NH2	2.30	0.60
1:M:834:ARG:CG	4:r:94:LEU:CB	2.74	0.60
1:N:1085:THR:CG2	1:N:1086:GLY:N	2.61	0.60
1:N:1165:VAL:HG11	3:V:158:ALA:HB1	1.83	0.60
1:O:883:ARG:HD3	1:P:680:GLY:HA3	1.84	0.60
1:P:258:SER:HB2	1:P:1102:LEU:O	2.02	0.60
2:Q:100:LEU:O	2:Q:311:MET:HA	2.02	0.60
3:S:300:LEU:CD2	3:S:331:LYS:O	2.49	0.60
2:W:63:LEU:HB3	2:W:67:TYR:HE1	1.66	0.60
3:Y:419:TYR:HE1	3:Y:466:ALA:O	1.84	0.60
2:Z:100:LEU:O	2:Z:311:MET:HA	2.02	0.60
2:c:186:LEU:HD12	2:c:187:SER:N	2.15	0.60
3:e:251:LEU:HD21	3:e:254:TRP:CZ3	2.20	0.60
4:h:53:PHE:O	4:h:56:GLY:N	2.33	0.60
4:t:21:GLY:O	4:t:23:ARG:O	2.19	0.60
1:G:832:PHE:CE2	1:G:902:ALA:CB	2.70	0.60
1:G:1321:VAL:HG12	1:G:1322:GLU:N	2.17	0.60
1:A:1173:ARG:O	1:A:1173:ARG:HG3	2.01	0.60
1:B:681:ASP:O	1:B:682:LEU:HD12	2.01	0.60
1:B:1080:VAL:CB	1:B:1092:THR:O	2.49	0.60
1:B:1131:LEU:HD23	1:B:1159:PRO:HG3	1.83	0.60
1:D:29:VAL:HG11	1:L:120:MET:CE	2.25	0.60
1:D:96:GLN:HB2	1:I:11:TYR:CE1	2.36	0.60
1:D:102:PRO:HB3	1:E:65:LEU:HD11	1.84	0.60
1:F:788:GLN:H	1:F:788:GLN:CD	2.06	0.60
1:I:90:MET:O	1:I:90:MET:CG	2.39	0.60
1:J:375:VAL:HG12	1:J:376:PHE:N	2.17	0.60
1:J:404:LEU:HD12	1:J:404:LEU:N	2.16	0.60
1:J:750:ARG:C	1:J:912:ALA:HB1	2.23	0.60
1:K:579:ASN:HA	1:K:1031:MET:HE3	1.83	0.60
1:K:751:HIS:C	1:K:752:ARG:HD2	2.26	0.60
1:K:1241:THR:CG2	1:K:1247:SER:OG	2.50	0.60
1:K:1304:THR:HG21	1:K:1314:PRO:HD2	1.84	0.60
1:L:304:VAL:CG2	1:L:358:PRO:HB2	2.31	0.60
1:M:201:MET:HE1	1:M:1289:LEU:HB3	1.83	0.60
1:M:841:ASN:HB2	4:f:57:GLN:NE2	2.16	0.60
1:M:1129:PHE:HA	1:M:1264:ASN:HD21	1.65	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:484:ALA:O	1:N:485:ASN:C	2.44	0.60
1:N:1222:VAL:O	1:N:1223:ILE:HD12	2.02	0.60
1:O:521:VAL:CG2	1:P:710:PRO:HG2	2.31	0.60
1:O:840:GLN:OE1	4:s:58:ALA:HB1	2.00	0.60
1:P:486:PRO:CG	1:P:564:PRO:HG3	2.31	0.60
1:P:1263:LEU:C	1:P:1264:ASN:HD22	2.10	0.60
2:Q:32:VAL:O	2:Q:73:ALA:N	2.31	0.60
2:Q:296:ARG:CG	2:Q:318:PRO:CA	2.75	0.60
2:U:11:ALA:O	2:U:43:LEU:HB2	2.02	0.60
3:V:255:VAL:HG12	3:V:255:VAL:O	2.02	0.60
3:V:313:VAL:HA	3:V:421:ALA:O	2.01	0.60
2:X:126:THR:CG2	2:X:139:PHE:H	2.14	0.60
2:c:100:LEU:O	2:c:311:MET:HA	2.02	0.60
2:c:227:LEU:HD12	2:c:228:LEU:HD11	1.66	0.60
3:e:288:ILE:HG23	3:e:457:TRP:HH2	1.66	0.60
4:j:5:GLN:NE2	4:j:42:HIS:O	2.35	0.60
4:l:21:GLY:C	4:l:23:ARG:N	2.58	0.60
4:n:106:PRO:HG2	4:n:107:LYS:H	1.67	0.60
1:G:126:ARG:CZ	2:Q:82:ARG:NH1	2.65	0.60
1:G:299:GLU:CB	1:G:363:VAL:CG1	2.80	0.60
1:A:425:PRO:HG3	1:A:431:GLU:HB2	1.83	0.60
1:C:121:THR:O	1:C:121:THR:HG23	2.01	0.60
1:D:696:HIS:HE1	1:D:1021:THR:HG21	1.66	0.60
1:D:1085:THR:CG2	1:D:1088:GLY:O	2.50	0.60
1:H:758:ALA:CB	1:H:781:GLY:CA	2.75	0.60
1:I:620:ASP:HA	1:J:691:ARG:HH12	1.67	0.60
1:J:272:ARG:HD3	1:J:374:LEU:CD2	2.18	0.60
1:J:846:GLU:CD	4:o:67:THR:OG1	2.45	0.60
1:K:541:LEU:CD2	1:K:571:ILE:HD11	2.32	0.60
1:N:534:PRO:HG3	1:N:1230:GLY:CA	2.30	0.60
1:N:714:LEU:HD13	1:N:719:GLN:HE22	1.67	0.60
1:O:194:PRO:HG2	1:O:197:LEU:HD12	1.82	0.60
1:O:739:CYS:O	1:O:743:MET:HG2	2.02	0.60
1:O:1152:VAL:HG13	1:O:1159:PRO:CD	2.31	0.60
2:T:32:VAL:O	2:T:72:PRO:HA	2.01	0.60
3:V:317:ARG:CB	3:V:324:LEU:N	2.64	0.60
2:X:12:ILE:HG23	2:X:13:PRO:HD2	1.83	0.60
3:b:197:ALA:CB	3:b:324:LEU:HD22	2.30	0.60
4:h:93:GLY:C	4:h:95:LYS:H	2.08	0.60
4:j:23:ARG:C	4:j:25:LEU:N	2.59	0.60
4:l:46:THR:OG1	4:l:50:VAL:CG1	2.49	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:766:ALA:HB2	1:G:782:ARG:HD3	1.84	0.60
1:G:1211:GLY:CA	1:G:1329:GLN:HG2	2.32	0.60
1:A:842:MET:CE	4:g:61:LEU:CD1	2.80	0.60
1:B:136:ALA:CA	1:B:1088:GLY:HA2	2.31	0.60
1:B:1248:GLN:O	1:B:1251:SER:OG	2.10	0.60
1:D:1199:PHE:O	1:D:1200:ARG:HB2	2.01	0.60
1:F:541:LEU:CD2	1:F:571:ILE:HD11	2.31	0.60
1:F:643:ALA:HB1	1:F:896:VAL:HG21	1.83	0.60
1:H:83:LYS:HA	1:H:1075:LEU:HB2	1.84	0.60
1:H:487:TYR:HD2	1:H:520:TRP:CH2	2.20	0.60
1:I:466:LEU:O	1:I:467:MET:HB2	2.01	0.60
1:I:888:GLY:HA3	4:n:69:ALA:CB	2.31	0.60
1:J:247:TRP:CH2	1:J:1113:ALA:HB2	2.37	0.60
1:J:842:MET:HG2	4:o:61:LEU:CD2	2.32	0.60
1:J:1241:THR:HG21	1:J:1247:SER:OG	2.02	0.60
1:K:298:THR:HG22	1:K:300:ALA:H	1.67	0.60
1:K:501:MET:HE3	1:K:958:LEU:HD11	1.80	0.60
1:K:1340:PRO:HD2	1:P:413:MET:CG	2.32	0.60
1:L:395:VAL:O	1:L:395:VAL:HG13	2.00	0.60
1:M:71:LEU:CD1	1:M:306:TYR:CD1	2.74	0.60
1:M:1347:ARG:HG3	1:M:1347:ARG:NH2	2.11	0.60
1:O:238:GLY:HA2	1:O:244:ILE:HD11	1.84	0.60
1:P:458:VAL:O	1:P:462:CYS:HB2	2.02	0.60
1:P:1195:ASP:OD1	1:P:1195:ASP:N	2.33	0.60
2:R:13:PRO:CG	2:R:43:LEU:HB3	2.29	0.60
2:T:124:GLN:N	2:T:124:GLN:HE21	1.99	0.60
2:T:211:TYR:CE1	2:U:241:LEU:HD23	2.36	0.60
3:Y:255:VAL:HG12	3:Y:255:VAL:O	2.02	0.60
2:Z:63:LEU:HB3	2:Z:67:TYR:HE1	1.67	0.60
2:a:30:ARG:HD3	2:a:139:PHE:CE1	2.37	0.60
2:d:120:VAL:HG22	2:d:120:VAL:O	2.00	0.60
3:e:137:PRO:CD	3:e:138:THR:HA	2.32	0.60
4:h:23:ARG:O	4:h:25:LEU:N	2.34	0.60
4:s:23:ARG:C	4:s:25:LEU:N	2.59	0.60
4:t:77:PRO:CD	4:t:80:ALA:HB2	2.29	0.60
1:G:224:LYS:HE2	1:G:1328:PHE:HB3	1.82	0.60
1:G:311:LEU:HD11	1:G:314:ALA:HB3	1.83	0.60
1:G:827:THR:HG22	1:G:938:LEU:HD11	1.84	0.60
1:G:1059:VAL:HG23	1:G:1119:VAL:HG22	1.82	0.60
1:G:1131:LEU:HD11	1:G:1158:GLY:HA2	1.83	0.60
1:B:23:ILE:CD1	1:B:65:LEU:HD21	2.32	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:521:VAL:CG2	1:C:710:PRO:HG2	2.31	0.60
1:B:1315:PRO:HB2	3:S:180:ALA:HB3	1.82	0.60
1:C:729:PRO:O	1:C:745:HIS:ND1	2.33	0.60
1:C:766:ALA:CB	1:C:784:LEU:HD22	2.29	0.60
1:C:1078:LEU:CD1	3:e:10:PRO:CB	2.80	0.60
1:C:1225:LEU:HD22	1:C:1225:LEU:C	2.25	0.60
1:E:93:GLY:O	1:E:124:ILE:HG12	2.00	0.60
1:E:1100:VAL:CG1	1:E:1101:ASP:N	2.65	0.60
1:H:413:MET:HE3	1:I:433:ARG:HH21	1.65	0.60
1:H:876:ASN:HA	1:H:879:PHE:HD2	1.66	0.60
1:H:1218:LYS:HG3	1:H:1221:ASP:HB3	1.83	0.60
1:I:726:MET:HE3	1:I:815:VAL:HG23	1.84	0.60
1:J:265:THR:H	1:J:304:VAL:CG1	2.14	0.60
1:J:815:VAL:HG12	1:J:1021:THR:HG22	1.83	0.60
1:J:944:HIS:HE1	1:J:951:ASN:CG	2.01	0.60
1:K:533:GLN:CB	1:K:534:PRO:CD	2.80	0.60
1:K:1059:VAL:HG23	1:K:1119:VAL:CG2	2.32	0.60
1:M:335:HIS:O	1:M:339:MET:HB2	2.02	0.60
1:N:91:ASN:HB3	1:O:55:ASP:OD1	2.02	0.60
1:N:416:PHE:HD2	1:O:433:ARG:HH12	1.50	0.60
1:N:847:ILE:HG21	4:r:71:ASN:CA	2.32	0.60
1:O:814:TYR:O	1:O:818:PRO:HG2	2.01	0.60
1:O:1118:PRO:O	1:O:1119:VAL:HB	1.99	0.60
1:O:1195:ASP:OD1	1:O:1195:ASP:N	2.33	0.60
2:R:11:ALA:O	2:R:43:LEU:HB2	2.02	0.60
2:R:161:ARG:NH1	2:R:174:PRO:HG2	2.16	0.60
2:T:293:PRO:HG2	2:T:318:PRO:HG3	1.84	0.60
3:V:207:VAL:HG22	3:V:447:VAL:HG11	1.83	0.60
2:W:153:ALA:O	2:W:156:VAL:HG12	2.01	0.60
2:a:94:HIS:ND1	2:a:98:VAL:HG12	2.17	0.60
2:c:63:LEU:HB3	2:c:67:TYR:HE1	1.67	0.60
4:h:46:THR:OG1	4:h:50:VAL:CG1	2.49	0.60
4:i:5:GLN:NE2	4:i:42:HIS:O	2.35	0.60
4:m:23:ARG:C	4:m:25:LEU:N	2.59	0.60
4:o:46:THR:OG1	4:o:50:VAL:CG1	2.49	0.60
1:G:153:ILE:HG22	1:G:153:ILE:O	2.02	0.60
1:G:1008:GLN:HE21	1:G:1012:GLU:HB2	1.67	0.60
1:A:241:ARG:C	1:A:243:ALA:H	2.09	0.60
1:A:1073:TYR:OH	1:A:1097:ARG:NH1	2.25	0.60
1:B:405:PRO:O	1:B:1361:TYR:OH	2.19	0.60
1:B:759:GLY:CA	1:B:779:ASN:O	2.50	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1204:ASN:HD22	1:B:1205:PRO:CD	2.14	0.60
1:E:828:ALA:HB1	1:E:956:TYR:O	2.01	0.60
1:E:1117:ASN:OD1	1:E:1119:VAL:HG23	2.02	0.60
1:H:265:THR:OG1	1:H:266:HIS:N	2.23	0.60
1:H:484:ALA:O	1:H:485:ASN:HB3	2.01	0.60
1:H:918:ALA:HB2	1:H:1032:SER:HB2	1.83	0.60
1:H:1232:SER:HB2	1:H:1237:PRO:O	2.02	0.60
1:I:707:PHE:HA	1:I:1042:THR:HG21	1.84	0.60
1:J:186:HIS:O	1:J:190:GLU:N	2.30	0.60
1:J:442:PHE:HB3	1:J:1336:CYS:HB3	1.84	0.60
1:J:469:ILE:O	1:J:472:ALA:HB3	2.02	0.60
1:J:606:MET:HB2	1:J:611:ILE:HD11	1.84	0.60
1:L:842:MET:SD	4:q:61:LEU:HD13	2.42	0.60
1:M:456:ASN:OD1	1:M:1126:PRO:HG3	2.00	0.60
1:N:375:VAL:HG12	1:N:376:PHE:O	2.02	0.60
3:S:106:PRO:O	3:S:107:ARG:CG	2.50	0.60
2:W:33:PHE:CE1	2:W:140:PRO:HG3	2.36	0.60
3:Y:40:PRO:O	3:Y:41:ILE:HG22	2.02	0.60
2:Z:33:PHE:CE1	2:Z:140:PRO:HG3	2.36	0.60
4:i:18:ARG:HA	4:i:56:GLY:O	1.98	0.60
4:i:93:GLY:C	4:i:95:LYS:H	2.07	0.60
4:l:46:THR:CG2	4:l:50:VAL:HG11	2.18	0.60
4:p:46:THR:CG2	4:p:50:VAL:HG11	2.18	0.60
4:q:1:MET:H2	4:q:5:GLN:CB	2.15	0.60
1:G:426:ALA:HB3	1:G:429:HIS:HE2	1.66	0.59
1:G:490:TYR:CE1	1:G:565:PRO:HD3	2.37	0.59
1:A:42:VAL:HG12	1:A:43:ARG:O	2.02	0.59
1:A:94:ARG:HA	1:A:122:LYS:O	2.02	0.59
1:A:267:ALA:HB1	1:A:271:GLY:HA2	1.84	0.59
1:A:844:VAL:HG11	4:g:68:HIS:CB	2.31	0.59
1:A:1029:PHE:HB3	1:A:1039:GLN:NE2	2.14	0.59
1:A:1160:ALA:O	1:A:1161:GLN:HG2	2.02	0.59
1:B:136:ALA:CB	1:B:1088:GLY:CA	2.79	0.59
1:B:136:ALA:HB2	1:B:1088:GLY:CA	2.32	0.59
1:B:1218:LYS:CB	1:C:1173:ARG:HH22	2.14	0.59
1:E:1227:TYR:O	1:E:1229:HIS:ND1	2.29	0.59
1:H:837:ALA:N	4:m:54:LEU:CD2	2.65	0.59
1:I:8:PRO:CB	1:I:37:ASP:OD1	2.50	0.59
1:I:27:ILE:HG23	1:I:32:HIS:CE1	2.36	0.59
1:I:247:TRP:HE3	1:I:248:LEU:HD12	1.67	0.59
1:I:528:ALA:O	1:I:532:MET:CE	2.49	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:44:SER:HB2	1:K:114:GLN:HB3	1.84	0.59
1:J:399:ASP:HB2	1:J:1324:PRO:HD2	1.83	0.59
1:J:527:THR:HG21	1:J:1193:ALA:HB1	1.84	0.59
1:J:624:PRO:HB2	1:J:626:VAL:HG22	1.84	0.59
1:J:816:LEU:HD12	1:J:1021:THR:HG21	1.83	0.59
1:J:1335:THR:HA	1:J:1364:TYR:HA	1.84	0.59
1:J:1345:SER:OG	1:J:1354:ARG:N	2.20	0.59
1:K:1029:PHE:HB3	1:K:1039:GLN:HE22	1.67	0.59
1:L:904:ARG:NH1	1:L:906:THR:HG23	2.17	0.59
1:M:544:HIS:CD2	1:M:547:PHE:HD2	2.19	0.59
1:N:558:LEU:HD21	1:N:999:PHE:CZ	2.37	0.59
1:N:1196:ILE:O	1:N:1199:PHE:HB2	2.01	0.59
1:O:1115:VAL:HG12	1:O:1374:LEU:HD22	1.84	0.59
1:O:1222:VAL:O	1:O:1223:ILE:HG22	2.01	0.59
1:P:904:ARG:HH12	1:P:906:THR:HG23	1.66	0.59
2:Q:33:PHE:CE1	2:Q:140:PRO:HG3	2.36	0.59
3:S:91:LEU:O	3:S:95:ARG:N	2.30	0.59
3:S:157:LEU:O	3:S:158:ALA:C	2.44	0.59
3:S:438:ARG:CA	3:S:447:VAL:O	2.50	0.59
3:V:300:LEU:HD13	3:V:333:GLN:OE1	2.01	0.59
2:Z:183:GLY:O	2:Z:184:ALA:HB3	2.00	0.59
2:d:11:ALA:O	2:d:43:LEU:HB2	2.02	0.59
2:d:15:GLY:C	2:d:16:ILE:HG13	2.26	0.59
2:d:128:VAL:O	2:d:128:VAL:HG13	2.02	0.59
4:f:19:ALA:O	4:f:20:LEU:HB2	2.01	0.59
4:h:23:ARG:C	4:h:25:LEU:N	2.59	0.59
4:l:1:MET:H2	4:l:5:GLN:CB	2.14	0.59
4:l:44:HIS:HB3	4:l:47:GLN:C	2.25	0.59
4:m:3:ALA:HB2	4:m:38:ASN:O	1.97	0.59
1:G:194:PRO:HG2	1:G:197:LEU:HB2	1.83	0.59
1:G:502:GLN:HB2	1:G:958:LEU:CD2	2.32	0.59
1:C:558:LEU:HD21	1:C:999:PHE:CZ	2.37	0.59
1:C:1301:SER:OG	1:C:1319:GLU:CB	2.50	0.59
1:D:43:ARG:HE	1:L:114:GLN:CB	2.14	0.59
1:D:429:HIS:HB3	1:D:430:PRO:HD3	1.84	0.59
1:D:889:PRO:HD3	4:j:69:ALA:HB2	1.81	0.59
1:D:918:ALA:HB2	1:D:1032:SER:HB2	0.72	0.59
1:F:440:LEU:HD23	1:F:452:LEU:HD12	1.84	0.59
1:F:877:ALA:O	1:F:881:ASN:OD1	2.20	0.59
1:F:1276:PHE:O	1:F:1277:PHE:CG	2.55	0.59
1:I:278:LEU:O	1:I:278:LEU:HG	2.02	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:563:VAL:CG1	1:I:564:PRO:HD2	2.27	0.59
1:J:70:PHE:C	1:J:76:SER:CB	2.58	0.59
1:J:1109:VAL:HG22	1:J:1110:ALA:H	1.66	0.59
1:K:1241:THR:HG22	1:K:1247:SER:OG	2.01	0.59
1:L:1077:GLN:HG3	3:Y:82:ASP:HB2	1.82	0.59
1:M:646:ARG:CZ	4:f:78:MET:CB	2.80	0.59
1:N:892:LEU:HD11	4:r:65:GLY:HA2	1.83	0.59
1:P:258:SER:OG	1:P:1069:ALA:O	2.16	0.59
1:P:707:PHE:HA	1:P:1042:THR:HG21	1.83	0.59
2:R:12:ILE:HA	2:R:43:LEU:HD22	1.83	0.59
2:W:124:GLN:N	2:W:124:GLN:HE21	1.99	0.59
2:X:92:LEU:HD21	2:X:316:ARG:HA	1.83	0.59
2:X:152:VAL:HG21	2:X:290:ALA:HB2	1.84	0.59
3:Y:433:PRO:CB	3:Y:453:GLU:H	2.16	0.59
2:Z:293:PRO:HG2	2:Z:318:PRO:HB2	1.80	0.59
2:Z:298:CYS:CB	2:Z:315:ILE:HD11	2.32	0.59
4:f:98:TYR:O	4:q:29:THR:O	2.20	0.59
4:f:107:LYS:CG	4:f:108:THR:H	2.14	0.59
4:o:23:ARG:C	4:o:25:LEU:N	2.59	0.59
4:p:23:ARG:O	4:p:25:LEU:N	2.34	0.59
4:q:5:GLN:NE2	4:q:42:HIS:O	2.35	0.59
4:r:9:PRO:CB	4:r:18:ARG:O	2.50	0.59
4:s:9:PRO:CA	4:s:18:ARG:H	2.12	0.59
1:A:295:VAL:CG1	1:A:369:ALA:H	2.15	0.59
1:A:447:HIS:CB	1:F:1201:ARG:HD2	2.31	0.59
1:A:1201:ARG:HH22	1:B:1179:HIS:CE1	2.20	0.59
1:A:1237:PRO:HB3	1:B:1156:ARG:HH22	1.64	0.59
1:B:321:VAL:HA	1:C:14:ALA:HB3	1.83	0.59
1:B:840:GLN:CD	4:h:58:ALA:HB2	2.26	0.59
1:C:137:THR:HG21	3:e:273:ALA:HA	1.83	0.59
1:C:1321:VAL:HG22	1:C:1322:GLU:H	1.66	0.59
1:D:1013:SER:OG	1:D:1020:LEU:HD22	2.02	0.59
1:D:1347:ARG:O	1:D:1348:ASP:HB2	2.03	0.59
1:E:270:ARG:HH22	1:E:298:THR:HG1	1.49	0.59
1:E:520:TRP:CD2	1:E:997:ASN:ND2	2.61	0.59
1:E:1054:ARG:HH12	1:E:1122:MET:C	2.09	0.59
1:F:43:ARG:C	1:F:44:SER:HG	2.07	0.59
1:F:876:ASN:HA	1:F:879:PHE:HD2	1.68	0.59
1:F:883:ARG:O	1:F:884:VAL:HG23	2.00	0.59
1:H:656:TRP:CD2	1:H:686:CYS:HB3	2.38	0.59
1:I:1232:SER:HB2	1:I:1237:PRO:O	2.02	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:140:ILE:O	1:J:144:THR:HG23	2.02	0.59
1:J:182:ASP:OD1	1:J:186:HIS:CD2	2.55	0.59
1:J:415:ARG:O	1:J:1358:PHE:HA	2.02	0.59
1:J:944:HIS:CG	1:J:972:ASN:HB3	2.37	0.59
1:K:183:GLN:HA	1:K:186:HIS:HD1	1.67	0.59
1:K:234:LEU:O	1:K:1114:THR:HG22	2.02	0.59
1:M:269:THR:HG1	1:M:298:THR:CB	2.14	0.59
1:P:470:ASP:HA	1:P:473:VAL:HG12	1.84	0.59
2:Q:63:LEU:HB3	2:Q:67:TYR:HE1	1.66	0.59
2:Q:228:LEU:CD2	2:Q:241:LEU:CB	2.73	0.59
3:S:161:TRP:CZ3	3:S:165:LEU:CD1	2.85	0.59
2:U:152:VAL:HG21	2:U:290:ALA:HB2	1.85	0.59
2:U:287:ASP:O	2:U:290:ALA:O	2.21	0.59
3:V:140:LEU:C	3:V:142:HIS:H	2.09	0.59
2:W:156:VAL:HG13	2:X:275:LEU:CD1	2.32	0.59
3:e:280:GLY:O	3:e:281:ARG:CB	2.49	0.59
4:f:77:PRO:CD	4:f:80:ALA:HB2	2.29	0.59
4:h:20:LEU:O	4:h:60:ALA:CB	2.50	0.59
4:t:23:ARG:C	4:t:25:LEU:N	2.59	0.59
1:G:135:LEU:HD23	1:G:140:ILE:HD13	1.84	0.59
1:A:195:LEU:HD11	1:A:199:LEU:HG	1.83	0.59
1:B:21:GLY:C	1:B:22:SER:HG	1.97	0.59
1:B:752:ARG:HH21	1:B:752:ARG:CG	2.15	0.59
1:D:34:ARG:C	1:L:1291:ARG:NH2	2.58	0.59
1:D:546:ALA:HA	1:D:1031:MET:SD	2.43	0.59
1:D:1073:TYR:OH	1:D:1097:ARG:HD3	2.02	0.59
1:E:1058:PHE:CZ	1:E:1122:MET:HE1	2.37	0.59
1:E:1216:GLY:N	1:E:1221:ASP:OD2	2.30	0.59
1:F:26:THR:O	1:F:27:ILE:HG23	2.03	0.59
1:F:191:LYS:HD2	1:F:1071:GLU:OE2	2.01	0.59
1:F:872:ALA:N	4:g:107:LYS:HE2	2.17	0.59
1:H:1055:GLN:HE22	1:H:1275:LYS:HZ1	1.48	0.59
1:I:193:PRO:HG2	1:I:198:LEU:HD12	1.85	0.59
1:I:435:PHE:O	1:I:1359:THR:OG1	2.20	0.59
1:I:444:GLY:HA3	1:I:450:LEU:HD11	1.85	0.59
1:J:13:TYR:CE1	1:J:49:LEU:HD22	2.38	0.59
1:J:400:LEU:HD23	1:J:1368:PRO:CG	2.32	0.59
1:J:466:LEU:O	1:J:547:PHE:CE2	2.47	0.59
1:J:487:TYR:CD2	1:J:520:TRP:HZ2	2.18	0.59
1:J:759:GLY:C	1:J:780:ASP:O	2.44	0.59
1:J:808:HIS:O	1:J:812:TYR:HB2	2.01	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:915:ASP:CG	1:J:1030:LYS:NZ	2.59	0.59
1:K:943:GLN:HG2	1:K:946:ASP:OD1	2.02	0.59
1:L:1259:GLY:HA3	1:L:1274:PHE:HE1	1.66	0.59
1:M:1155:ASN:HB2	1:M:1158:GLY:HA3	1.82	0.59
1:M:1291:ARG:O	1:M:1294:VAL:N	2.32	0.59
1:N:62:CYS:SG	1:N:63:ASN:N	2.75	0.59
1:N:1229:HIS:CD2	1:N:1241:THR:CG2	2.84	0.59
1:O:302:VAL:HA	1:O:361:THR:O	2.01	0.59
1:O:496:GLY:HA3	1:O:504:ARG:HH12	1.66	0.59
1:O:1329:GLN:C	1:O:1330:GLU:HG3	2.27	0.59
1:P:129:LEU:O	1:P:1094:THR:HA	2.03	0.59
1:P:487:TYR:HE1	1:P:505:PHE:CZ	2.19	0.59
1:P:1073:TYR:OH	1:P:1097:ARG:NH1	2.35	0.59
2:Q:124:GLN:N	2:Q:124:GLN:HE21	1.99	0.59
3:S:438:ARG:O	3:S:447:VAL:O	2.21	0.59
2:T:126:THR:HG23	2:T:126:THR:O	2.03	0.59
2:U:13:PRO:HG2	2:U:133:LEU:HD13	1.85	0.59
3:V:140:LEU:H	3:V:142:HIS:HE1	1.48	0.59
2:a:94:HIS:CE1	2:a:98:VAL:CB	2.85	0.59
2:c:112:ASP:O	2:c:145:THR:HG23	2.03	0.59
3:e:433:PRO:CB	3:e:453:GLU:H	2.16	0.59
4:g:23:ARG:O	4:g:25:LEU:N	2.34	0.59
4:s:10:SER:H	4:s:17:VAL:CA	2.15	0.59
1:G:586:LEU:HG	1:G:1191:PRO:HB3	1.85	0.59
1:A:581:ASN:ND2	1:A:1003:ARG:H	2.00	0.59
1:A:1202:PRO:O	1:A:1331:ALA:O	2.21	0.59
1:A:1285:LYS:CD	1:A:1286:HIS:N	2.65	0.59
1:C:532:MET:CA	1:C:534:PRO:HD2	2.32	0.59
1:D:842:MET:SD	4:j:61:LEU:HD22	2.42	0.59
1:E:347:ASN:ND2	1:F:163:GLN:HB3	2.18	0.59
1:F:68:VAL:O	1:F:68:VAL:HG23	2.02	0.59
1:F:599:LEU:O	1:F:603:ARG:NH1	2.35	0.59
1:F:753:ASP:HB2	1:F:911:SER:OG	2.02	0.59
1:F:1276:PHE:O	1:F:1277:PHE:CB	2.50	0.59
1:H:83:LYS:HB2	1:H:308:GLU:HG2	1.84	0.59
1:J:293:LEU:HD12	1:J:293:LEU:O	2.03	0.59
1:J:461:VAL:HG23	1:J:466:LEU:HD11	1.83	0.59
1:L:730:ALA:HB2	1:L:750:ARG:NH1	2.16	0.59
1:M:487:TYR:OH	1:M:990:VAL:N	2.33	0.59
1:M:730:ALA:HB2	1:M:750:ARG:NH1	2.17	0.59
1:N:193:PRO:HD2	1:N:198:LEU:HD11	1.85	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:742:LEU:HD12	1:N:908:LEU:HD21	1.84	0.59
1:O:191:LYS:O	1:O:191:LYS:CG	2.50	0.59
1:O:844:VAL:HG12	4:s:68:HIS:CB	2.33	0.59
2:Q:105:PRO:CG	2:Q:186:LEU:HD13	2.32	0.59
2:W:100:LEU:O	2:W:311:MET:HA	2.02	0.59
2:W:114:VAL:CG2	2:W:145:THR:HG22	2.33	0.59
2:W:268:ARG:HB2	2:X:166:ASP:OD2	2.01	0.59
3:Y:143:LEU:HD23	3:Y:146:HIS:O	2.02	0.59
3:Y:299:GLU:HG2	3:Y:300:LEU:H	1.67	0.59
3:Y:419:TYR:H	3:Y:419:TYR:HD1	1.50	0.59
2:Z:126:THR:O	2:Z:126:THR:HG23	2.03	0.59
2:a:122:GLU:HA	2:a:189:VAL:HG22	1.84	0.59
3:b:140:LEU:HD12	3:b:158:ALA:HB1	1.84	0.59
3:b:161:TRP:CH2	3:b:165:LEU:CD2	2.85	0.59
3:e:286:VAL:O	3:e:287:THR:OG1	2.19	0.59
4:k:5:GLN:NE2	4:k:42:HIS:O	2.35	0.59
4:s:77:PRO:CD	4:s:80:ALA:HB2	2.29	0.59
1:G:1125:LEU:HD12	1:G:1126:PRO:HD2	1.85	0.59
1:G:1240:ALA:C	1:G:1241:THR:CG2	2.76	0.59
1:B:140:ILE:HD11	1:B:1089:VAL:HG13	1.85	0.59
1:B:841:ASN:HA	4:h:22:MET:HE1	1.84	0.59
1:C:196:ALA:HB1	1:C:227:PHE:HA	1.85	0.59
1:C:726:MET:HE1	1:C:814:TYR:HB2	1.83	0.59
1:D:270:ARG:HH22	1:D:298:THR:HG23	1.60	0.59
1:H:144:THR:O	1:H:145:GLY:C	2.45	0.59
1:H:269:THR:HB	1:H:298:THR:CG2	2.33	0.59
1:I:284:ILE:HD13	1:I:1113:ALA:CB	2.32	0.59
1:I:840:GLN:HB2	4:n:61:LEU:HD11	1.85	0.59
1:I:1206:ARG:O	1:I:1247:SER:HB3	2.03	0.59
1:J:86:GLU:OE1	1:J:311:LEU:HD13	2.03	0.59
1:J:187:VAL:HG21	1:J:1071:GLU:OE2	2.02	0.59
1:J:454:MET:SD	1:J:1045:HIS:ND1	2.76	0.59
1:J:575:TRP:CH2	1:J:918:ALA:HB3	2.38	0.59
1:K:778:ARG:HH12	1:K:782:ARG:CZ	2.14	0.59
1:K:841:ASN:CG	4:p:57:GLN:NE2	2.61	0.59
1:K:1073:TYR:OH	1:K:1097:ARG:HD3	2.03	0.59
1:N:1316:GLY:HA3	3:V:260:LEU:HD21	1.83	0.59
1:P:267:ALA:CB	1:P:274:VAL:H	2.15	0.59
3:S:339:LEU:HD23	3:S:422:PHE:CG	2.34	0.59
2:T:33:PHE:CE1	2:T:140:PRO:HG3	2.36	0.59
3:Y:289:PRO:CA	3:Y:450:VAL:O	2.50	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:b:335:PRO:O	3:b:338:GLY:N	2.33	0.59
2:c:114:VAL:CG2	2:c:145:THR:HG22	2.33	0.59
4:h:106:PRO:HG2	4:h:107:LYS:H	1.66	0.59
4:j:46:THR:OG1	4:j:50:VAL:CG1	2.49	0.59
4:l:5:GLN:NE2	4:l:42:HIS:O	2.35	0.59
4:m:90:PRO:CB	4:m:105:ASP:O	2.51	0.59
4:p:98:TYR:O	4:t:29:THR:O	2.21	0.59
4:s:3:ALA:HB2	4:s:38:ASN:O	1.97	0.59
1:G:505:PHE:HE1	1:G:509:TRP:CE2	2.18	0.59
1:G:822:ARG:CZ	1:G:1020:LEU:HD23	2.31	0.59
1:G:1216:GLY:O	1:G:1217:ASP:CB	2.49	0.59
1:C:114:GLN:NE2	1:M:43:ARG:HG3	2.17	0.59
1:C:863:HIS:CE1	1:C:865:LEU:HB2	2.38	0.59
1:C:1200:ARG:O	1:C:1201:ARG:CB	2.49	0.59
1:D:586:LEU:HD23	1:D:1245:TRP:CZ2	2.38	0.59
1:D:606:MET:HB2	1:D:1018:ASN:HD21	1.68	0.59
1:F:73:LEU:HD12	1:F:74:GLY:H	1.67	0.59
1:F:505:PHE:CE1	1:F:509:TRP:CD1	2.90	0.59
1:F:726:MET:HE1	1:F:814:TYR:HB2	1.85	0.59
1:F:1291:ARG:O	1:F:1294:VAL:N	2.30	0.59
1:I:540:ALA:O	1:I:543:LEU:HD11	2.03	0.59
1:I:1131:LEU:HD11	1:I:1157:LEU:HB3	1.84	0.59
1:J:84:PHE:HE2	1:J:90:MET:HE2	1.67	0.59
1:J:465:SER:CB	1:J:1256:LEU:HD21	2.32	0.59
1:J:1125:LEU:HD12	1:J:1126:PRO:HD2	1.84	0.59
1:K:124:ILE:HG12	1:K:1100:VAL:HG13	1.85	0.59
1:K:132:ALA:HB2	1:P:112:VAL:CG1	2.28	0.59
1:L:423:LEU:HD13	1:L:433:ARG:HH22	1.68	0.59
1:M:817:VAL:N	1:M:818:PRO:CD	2.66	0.59
1:M:1201:ARG:NH1	1:N:448:GLN:HB2	2.18	0.59
1:N:255:THR:CG2	1:N:1109:VAL:CG1	2.80	0.59
1:N:884:VAL:HG12	1:N:886:VAL:HG23	1.84	0.59
1:O:467:MET:HE1	1:O:575:TRP:NE1	2.17	0.59
1:O:847:ILE:CG2	4:s:71:ASN:HA	2.32	0.59
1:O:866:HIS:CD2	1:O:868:ALA:H	2.20	0.59
1:P:363:VAL:HG22	1:P:364:ARG:H	1.68	0.59
1:P:827:THR:HG21	1:P:960:VAL:HG22	1.85	0.59
2:Q:293:PRO:HG2	2:Q:318:PRO:HG3	1.84	0.59
2:T:189:VAL:CG1	2:T:191:ASP:H	2.16	0.59
3:V:331:LYS:HZ3	3:V:434:ARG:HD2	1.64	0.59
2:a:86:CYS:SG	2:a:94:HIS:CE1	2.96	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:c:33:PHE:CE1	2:c:140:PRO:HG3	2.36	0.59
2:c:296:ARG:HG3	2:c:318:PRO:C	2.26	0.59
3:e:141:PRO:HB3	3:e:144:ALA:CB	2.32	0.59
3:e:255:VAL:HG12	3:e:255:VAL:O	2.02	0.59
4:j:1:MET:H2	4:j:5:GLN:HB3	1.67	0.59
1:G:1188:ILE:HD11	1:G:1273:CYS:SG	2.43	0.59
1:A:266:HIS:CE1	1:A:302:VAL:HG23	2.37	0.59
1:A:321:VAL:HG12	1:A:326:VAL:CB	2.19	0.59
1:C:293:LEU:HD12	1:C:293:LEU:O	2.03	0.59
1:C:429:HIS:HB3	1:C:430:PRO:HD3	1.84	0.59
1:C:1078:LEU:HD13	3:e:10:PRO:CB	2.32	0.59
1:D:1118:PRO:HB3	1:D:1122:MET:HE3	1.85	0.59
1:E:157:ARG:NH1	1:H:89:TYR:OH	2.31	0.59
1:E:486:PRO:HG3	1:E:564:PRO:HG3	1.85	0.59
1:F:467:MET:HE1	1:F:575:TRP:NE1	2.16	0.59
1:F:531:PHE:O	1:F:1240:ALA:N	2.32	0.59
1:F:957:VAL:O	1:F:957:VAL:HG23	2.02	0.59
1:H:1072:ALA:HB2	1:H:1102:LEU:HD21	1.84	0.59
1:H:1114:THR:O	1:H:1115:VAL:CG1	2.51	0.59
1:J:70:PHE:HE2	1:J:79:CYS:SG	2.25	0.59
1:J:195:LEU:HG	1:J:1111:ALA:HB2	1.83	0.59
1:K:83:LYS:HB2	1:K:308:GLU:HG2	1.84	0.59
1:K:487:TYR:HE1	1:K:505:PHE:HZ	1.49	0.59
1:N:737:TRP:CZ3	1:N:935:ALA:HB1	2.36	0.59
1:P:837:ALA:HA	4:t:54:LEU:HD22	1.79	0.59
2:T:114:VAL:CG2	2:T:145:THR:HG22	2.33	0.59
2:W:126:THR:O	2:W:126:THR:HG23	2.03	0.59
3:e:311:TYR:HA	3:e:424:GLU:HA	1.85	0.59
4:j:77:PRO:CD	4:j:80:ALA:HB2	2.29	0.59
4:n:50:VAL:HG13	4:n:50:VAL:O	2.03	0.59
4:o:20:LEU:HD11	4:o:23:ARG:O	2.03	0.59
4:o:50:VAL:HG13	4:o:50:VAL:O	2.03	0.59
4:s:5:GLN:NE2	4:s:42:HIS:O	2.35	0.59
1:G:470:ASP:OD1	1:G:471:ALA:N	2.35	0.59
1:G:821:SER:OG	1:G:821:SER:O	2.16	0.59
1:A:135:LEU:HD23	1:A:1091:PHE:HE2	1.67	0.59
1:A:903:GLU:HG2	1:A:904:ARG:HG2	1.85	0.59
1:A:1198:TYR:HE1	1:A:1236:ARG:HD3	1.68	0.59
1:B:960:VAL:HA	1:B:994:LEU:HD13	1.84	0.59
1:C:97:PHE:CD2	1:M:36:PHE:HE2	2.21	0.59
1:C:1344:ARG:HG2	1:C:1347:ARG:CZ	2.32	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:580:GLY:HA2	1:E:592:ARG:HH12	1.68	0.59
1:E:1078:LEU:HD23	1:E:1095:GLN:HB2	1.83	0.59
1:H:272:ARG:CZ	1:H:374:LEU:HG	2.32	0.59
1:H:871:VAL:HA	4:n:107:LYS:NZ	2.18	0.59
1:I:401:THR:HG21	1:I:1276:PHE:CE2	2.38	0.59
1:I:541:LEU:HD21	1:I:571:ILE:HD11	1.84	0.59
1:I:894:LEU:HD23	4:n:61:LEU:HD12	1.84	0.59
1:I:1081:ALA:O	1:I:1092:THR:HG22	2.03	0.59
1:J:368:VAL:HG21	1:J:377:LEU:HB2	1.83	0.59
1:J:1222:VAL:O	1:J:1223:ILE:HB	2.01	0.59
1:K:1340:PRO:CD	1:P:413:MET:HG2	2.33	0.59
1:M:11:TYR:CD2	1:M:13:TYR:CE1	2.91	0.59
1:M:840:GLN:CD	4:f:58:ALA:HA	2.28	0.59
1:N:297:ASP:O	1:N:298:THR:OG1	2.17	0.59
1:O:914:PRO:HB3	1:O:918:ALA:HB3	1.84	0.59
1:O:1059:VAL:HG23	1:O:1119:VAL:CG2	2.32	0.59
1:O:1107:THR:O	1:O:1108:ALA:HB3	2.01	0.59
1:O:1113:ALA:O	1:O:1114:THR:HG23	2.03	0.59
1:P:782:ARG:O	1:P:783:LEU:HD12	2.02	0.59
1:P:804:ASP:O	1:P:808:HIS:ND1	2.22	0.59
1:P:840:GLN:HE22	4:t:58:ALA:CB	1.96	0.59
1:P:843:VAL:HG12	1:P:876:ASN:HD21	1.67	0.59
1:P:845:PRO:HG2	1:P:862:ALA:C	2.28	0.59
2:R:12:ILE:CD1	2:R:83:ILE:HG13	2.32	0.59
2:R:92:LEU:HD21	2:R:316:ARG:HA	1.83	0.59
2:R:125:ALA:O	2:R:126:THR:HG23	2.03	0.59
3:S:286:VAL:O	3:S:287:THR:OG1	2.19	0.59
2:W:272:TYR:CE2	2:X:161:ARG:HA	2.38	0.59
2:Z:180:TYR:CD2	2:Z:185:ARG:CB	2.85	0.59
2:Z:227:LEU:O	2:Z:228:LEU:HB2	2.01	0.59
2:c:98:VAL:O	2:c:98:VAL:HG13	2.02	0.59
2:c:296:ARG:CG	2:c:318:PRO:CA	2.75	0.59
2:d:152:VAL:HG21	2:d:290:ALA:HB2	1.85	0.59
4:h:5:GLN:NE2	4:h:42:HIS:O	2.35	0.59
4:p:106:PRO:HG2	4:p:107:LYS:H	1.66	0.59
4:r:46:THR:OG1	4:r:50:VAL:CG1	2.49	0.59
1:G:295:VAL:HG21	1:G:369:ALA:N	1.68	0.59
1:G:1013:SER:OG	1:G:1020:LEU:HD22	2.03	0.59
1:G:1350:GLU:HA	1:G:1353:ALA:HB3	1.85	0.59
1:A:805:TRP:CE2	1:A:809:HIS:HE1	2.21	0.59
1:D:544:HIS:CD2	1:D:546:ALA:H	2.21	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:953:GLU:CG	1:D:954:TYR:H	2.15	0.59
1:E:84:PHE:O	1:E:1075:LEU:O	2.21	0.59
1:F:873:ASN:CG	4:g:92:PHE:CB	2.76	0.59
1:H:841:ASN:CA	4:m:57:GLN:HE21	2.15	0.59
1:I:1070:SER:OG	1:I:1107:THR:HG22	2.02	0.59
1:I:1165:VAL:HG11	2:X:240:LEU:HD13	1.83	0.59
1:J:301:ASP:OD2	1:J:365:ALA:CB	2.50	0.59
1:J:1118:PRO:HD3	1:J:1374:LEU:HD22	1.85	0.59
1:M:207:ASN:OD1	1:M:208:GLY:N	2.24	0.59
1:M:557:GLU:O	1:M:558:LEU:HB2	2.03	0.59
1:N:293:LEU:O	1:N:295:VAL:HG23	2.03	0.59
1:N:769:CYS:HB2	1:N:784:LEU:HD22	1.85	0.59
1:O:1056:ASP:OD2	1:O:1122:MET:HG2	2.03	0.59
1:P:201:MET:HE3	1:P:205:LEU:HD21	1.83	0.59
1:P:454:MET:CE	1:P:1050:PHE:CD2	2.85	0.59
1:P:534:PRO:C	1:P:536:ASN:H	2.11	0.59
1:P:1152:VAL:CG1	1:P:1159:PRO:HD2	2.31	0.59
3:S:299:GLU:HG2	3:S:300:LEU:H	1.68	0.59
3:S:311:TYR:HA	3:S:424:GLU:HA	1.85	0.59
2:T:112:ASP:O	2:T:145:THR:HG23	2.03	0.59
2:T:179:LEU:HD23	2:T:180:TYR:N	2.17	0.59
2:T:268:ARG:NH1	2:U:164:ASN:HB3	2.18	0.59
2:a:94:HIS:CE1	2:a:98:VAL:CG1	2.85	0.59
2:c:189:VAL:CG1	2:c:191:ASP:H	2.16	0.59
2:d:47:ALA:HB3	2:d:135:LEU:HD22	1.85	0.59
3:e:106:PRO:O	3:e:107:ARG:CG	2.50	0.59
3:e:109:HIS:ND1	3:e:267:CYS:CB	2.62	0.59
4:f:107:LYS:HG2	4:f:108:THR:N	2.16	0.59
4:s:15:ASP:CB	4:s:28:ALA:CA	2.79	0.59
4:t:106:PRO:HD2	4:t:107:LYS:H	1.68	0.59
1:G:94:ARG:HB3	1:G:121:THR:CG2	2.33	0.58
1:G:510:ARG:CG	1:G:980:LEU:HD11	2.33	0.58
1:G:976:PHE:HE2	1:G:981:ARG:HD2	1.68	0.58
1:B:50:TYR:HB2	1:B:52:VAL:HG13	1.85	0.58
1:B:77:VAL:CA	1:B:266:HIS:CE1	2.86	0.58
1:D:302:VAL:CG1	1:D:360:THR:HB	2.33	0.58
1:D:770:ASN:H	1:D:773:THR:HB	1.66	0.58
1:D:1211:GLY:N	1:D:1329:GLN:HG2	2.18	0.58
1:D:1229:HIS:NE2	1:D:1241:THR:HG21	2.16	0.58
1:E:266:HIS:HA	1:E:303:PRO:HA	1.85	0.58
1:E:840:GLN:HE22	4:k:58:ALA:HB2	0.63	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:871:VAL:HG11	4:m:26:VAL:HG12	1.85	0.58
1:I:380:LEU:HD11	1:I:385:TYR:CE2	2.25	0.58
1:I:440:LEU:HD21	1:I:1336:CYS:HB2	1.85	0.58
1:J:250:ASP:OD1	1:J:251:LEU:N	2.36	0.58
1:J:541:LEU:C	1:J:543:LEU:CD1	2.76	0.58
1:K:840:GLN:NE2	4:p:58:ALA:CA	2.66	0.58
1:K:847:ILE:HG21	4:p:71:ASN:CA	2.33	0.58
1:L:1348:ASP:HB2	1:L:1352:HIS:CE1	2.38	0.58
1:M:544:HIS:ND1	1:M:1252:TYR:CD1	2.71	0.58
1:M:844:VAL:HG11	4:f:68:HIS:CB	2.33	0.58
1:N:245:GLU:OE2	1:N:292:PHE:HB3	2.02	0.58
1:N:730:ALA:HA	1:N:745:HIS:CE1	2.37	0.58
1:O:534:PRO:CB	1:P:1154:GLY:C	2.70	0.58
1:O:841:ASN:CB	4:s:57:GLN:NE2	2.66	0.58
1:O:1077:GLN:O	1:O:1096:PRO:HD2	2.03	0.58
1:P:758:ALA:HB1	1:P:779:ASN:CB	2.33	0.58
1:P:903:GLU:HG2	1:P:904:ARG:HG2	1.85	0.58
1:P:1229:HIS:CD2	1:P:1241:THR:CG2	2.85	0.58
2:R:47:ALA:CB	2:R:135:LEU:HD22	2.33	0.58
3:S:160:ALA:O	3:S:230:CYS:SG	2.61	0.58
3:S:255:VAL:HG12	3:S:255:VAL:O	2.01	0.58
2:T:296:ARG:CG	2:T:318:PRO:CA	2.75	0.58
3:V:278:HIS:CB	3:V:279:PRO:HD2	2.29	0.58
2:W:112:ASP:O	2:W:145:THR:HG23	2.03	0.58
2:X:11:ALA:O	2:X:43:LEU:HB2	2.02	0.58
3:Y:317:ARG:CB	3:Y:324:LEU:N	2.64	0.58
4:h:3:ALA:HB2	4:h:38:ASN:O	1.97	0.58
4:m:23:ARG:O	4:m:25:LEU:N	2.34	0.58
4:p:3:ALA:HB2	4:p:38:ASN:O	1.97	0.58
4:p:10:SER:O	4:p:16:ASN:C	2.45	0.58
1:G:52:VAL:HG22	1:G:53:GLU:H	1.68	0.58
1:G:466:LEU:HD12	1:G:544:HIS:CE1	2.37	0.58
1:A:487:TYR:HH	1:A:990:VAL:N	2.01	0.58
1:A:804:ASP:O	1:A:808:HIS:ND1	2.23	0.58
1:A:1341:ALA:HB2	1:F:416:PHE:CE2	2.38	0.58
1:C:1076:GLY:HA3	1:C:1096:PRO:HG2	1.85	0.58
1:E:558:LEU:HD21	1:E:999:PHE:CZ	2.38	0.58
1:F:764:VAL:HG12	1:F:765:TYR:N	2.18	0.58
1:H:854:PRO:HB2	1:H:863:HIS:HB2	1.84	0.58
1:I:482:GLU:CB	1:I:568:PRO:HA	2.33	0.58
1:J:70:PHE:O	1:J:73:LEU:HB3	2.03	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:233:PHE:HE2	1:J:244:ILE:HD13	1.67	0.58
1:J:275:ASP:OD1	1:J:276:GLY:N	2.35	0.58
1:J:278:LEU:HD22	1:J:370:ILE:HD12	1.85	0.58
1:J:1216:GLY:N	1:J:1221:ASP:OD2	2.36	0.58
1:L:847:ILE:HG21	4:q:71:ASN:N	2.17	0.58
1:M:308:GLU:OE2	1:M:310:VAL:CG2	2.51	0.58
1:M:756:ILE:HD13	1:M:906:THR:HG21	1.85	0.58
1:N:1300:VAL:HG23	1:N:1318:ARG:HH21	1.68	0.58
1:P:454:MET:HE3	1:P:1050:PHE:HD2	1.67	0.58
1:P:543:LEU:HD23	1:P:1250:PHE:O	2.03	0.58
2:W:98:VAL:O	2:W:98:VAL:HG13	2.02	0.58
3:Y:106:PRO:O	3:Y:107:ARG:CG	2.50	0.58
3:Y:242:HIS:ND1	3:Y:421:ALA:CB	2.66	0.58
3:b:124:ALA:HB1	3:b:214:ASN:CG	2.23	0.58
3:b:435:CYS:CB	3:b:437:HIS:HE2	2.05	0.58
3:e:300:LEU:CD2	3:e:332:SER:HB2	2.33	0.58
4:f:95:LYS:O	4:f:96:ARG:CB	2.51	0.58
4:m:5:GLN:NE2	4:m:42:HIS:O	2.35	0.58
4:p:20:LEU:HD12	4:p:20:LEU:N	2.18	0.58
4:t:23:ARG:O	4:t:25:LEU:N	2.34	0.58
1:G:423:LEU:HG	1:G:1357:HIS:CE1	2.39	0.58
1:G:1161:GLN:HG2	2:R:180:TYR:CE1	2.38	0.58
1:G:1218:LYS:HG2	1:G:1221:ASP:OD2	2.03	0.58
1:G:1288:CYS:O	1:G:1289:LEU:C	2.42	0.58
1:C:1181:GLN:HE21	1:C:1310:GLN:HA	1.69	0.58
1:D:178:ARG:NH1	1:D:384:ILE:HA	2.18	0.58
1:E:280:THR:O	1:E:392:TYR:OH	2.20	0.58
1:H:76:SER:OG	1:H:266:HIS:NE2	2.35	0.58
1:H:293:LEU:CD2	1:H:370:ILE:HG12	2.33	0.58
1:H:997:ASN:HD21	1:H:1004:GLN:HB2	1.68	0.58
1:I:274:VAL:O	1:I:274:VAL:HG12	2.03	0.58
1:I:466:LEU:O	1:I:467:MET:HG2	2.03	0.58
1:I:888:GLY:CA	4:n:69:ALA:HB2	2.32	0.58
1:K:135:LEU:HD23	1:K:143:LEU:HD12	1.84	0.58
1:K:178:ARG:NH1	1:K:384:ILE:O	2.36	0.58
1:L:530:GLN:CA	1:L:536:ASN:ND2	2.66	0.58
1:L:795:ALA:HB3	1:L:800:HIS:CE1	2.38	0.58
1:M:429:HIS:CD2	1:M:429:HIS:N	2.71	0.58
1:M:1095:GLN:HE21	1:M:1097:ARG:HH21	1.50	0.58
1:M:1346:ALA:HB2	1:M:1362:LEU:HD11	1.85	0.58
1:N:541:LEU:CD2	1:N:571:ILE:HD11	2.33	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:1300:VAL:HG21	1:N:1318:ARG:CZ	2.32	0.58
1:P:334:ARG:HA	1:P:337:LEU:HD22	1.84	0.58
1:P:1317:CYS:O	1:P:1318:ARG:HG3	2.03	0.58
2:R:287:ASP:O	2:R:290:ALA:O	2.21	0.58
3:S:289:PRO:CA	3:S:450:VAL:O	2.50	0.58
2:T:98:VAL:O	2:T:98:VAL:HG13	2.02	0.58
2:X:126:THR:HG23	2:X:139:PHE:H	1.67	0.58
2:Z:179:LEU:HD23	2:Z:186:LEU:HD23	1.81	0.58
2:a:152:VAL:HG21	2:a:290:ALA:HB2	1.85	0.58
3:b:124:ALA:CB	3:b:214:ASN:CB	2.33	0.58
3:b:279:PRO:CA	3:b:285:ALA:HA	2.22	0.58
2:c:32:VAL:O	2:c:73:ALA:N	2.31	0.58
2:d:287:ASP:O	2:d:290:ALA:O	2.21	0.58
3:e:417:CYS:O	3:e:418:THR:HG22	2.03	0.58
4:i:23:ARG:C	4:i:25:LEU:N	2.59	0.58
4:j:50:VAL:HG13	4:j:50:VAL:O	2.03	0.58
4:k:46:THR:OG1	4:k:50:VAL:CG1	2.49	0.58
4:p:23:ARG:C	4:p:25:LEU:N	2.59	0.58
4:q:23:ARG:O	4:q:25:LEU:N	2.34	0.58
1:G:527:THR:C	1:G:529:GLU:H	2.09	0.58
1:G:876:ASN:HA	1:G:879:PHE:HD2	1.68	0.58
1:G:1300:VAL:HB	1:G:1323:ASP:OD2	2.03	0.58
1:A:142:LEU:HD12	1:A:142:LEU:N	2.18	0.58
1:A:269:THR:CG2	1:A:362:ARG:NH1	2.66	0.58
1:A:548:ASP:OD1	1:A:576:ARG:NE	2.24	0.58
1:A:1258:ASN:HA	1:A:1277:PHE:O	2.04	0.58
1:B:269:THR:HB	1:B:298:THR:O	2.03	0.58
1:C:256:GLN:HG3	1:M:25:SER:CB	2.34	0.58
1:C:628:TYR:HB3	1:C:955:PHE:CZ	2.38	0.58
1:C:917:GLY:HA2	1:C:1034:VAL:HG21	1.83	0.58
1:E:252:THR:HG22	1:E:373:ARG:HD3	1.84	0.58
1:E:1222:VAL:O	1:E:1223:ILE:HB	2.04	0.58
1:I:520:TRP:CD1	1:I:520:TRP:N	2.72	0.58
1:I:639:HIS:HB2	1:I:789:ALA:HA	1.85	0.58
1:I:730:ALA:HB2	1:I:750:ARG:NH1	2.14	0.58
1:J:445:LYS:NZ	1:J:1118:PRO:O	2.34	0.58
1:J:918:ALA:CB	1:J:1032:SER:CB	2.63	0.58
1:L:521:VAL:C	1:L:523:GLU:H	2.09	0.58
1:M:581:ASN:ND2	1:M:1003:ARG:H	2.01	0.58
1:M:1013:SER:OG	1:M:1020:LEU:HD22	2.03	0.58
1:O:78:ALA:HB2	1:O:277:VAL:CG2	2.31	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:759:GLY:HA2	1:O:779:ASN:CA	2.32	0.58
1:O:1223:ILE:HD13	1:O:1279:ALA:HB1	1.86	0.58
2:Q:114:VAL:CG2	2:Q:145:THR:HG22	2.33	0.58
2:R:34:LEU:HD12	2:R:36:THR:O	2.03	0.58
3:S:433:PRO:CB	3:S:453:GLU:H	2.16	0.58
2:T:296:ARG:HG3	2:T:318:PRO:C	2.26	0.58
2:X:6:PHE:O	2:X:6:PHE:CD2	2.57	0.58
2:a:92:LEU:CD2	2:a:314:VAL:HG12	2.33	0.58
2:c:293:PRO:HG2	2:c:318:PRO:HG3	1.84	0.58
2:d:34:LEU:HD12	2:d:36:THR:O	2.03	0.58
4:g:5:GLN:NE2	4:g:42:HIS:O	2.35	0.58
4:g:50:VAL:HG13	4:g:50:VAL:O	2.03	0.58
1:G:96:GLN:O	1:G:96:GLN:HG3	2.04	0.58
1:G:423:LEU:HD12	1:G:433:ARG:CB	2.34	0.58
1:G:1166:PHE:CE2	2:Q:277:ALA:O	2.56	0.58
1:G:1313:ARG:HD2	1:G:1317:CYS:HB2	1.83	0.58
1:A:114:GLN:HA	1:A:114:GLN:OE1	2.03	0.58
1:A:680:GLY:HA3	1:F:883:ARG:CG	2.31	0.58
1:A:775:ASP:HB3	1:A:778:ARG:HD2	1.84	0.58
1:A:1200:ARG:HG2	1:A:1363:ILE:HG23	1.86	0.58
1:B:23:ILE:HD12	1:B:65:LEU:CD1	2.33	0.58
1:C:487:TYR:HE1	1:C:505:PHE:HZ	1.50	0.58
1:C:730:ALA:HB2	1:C:750:ARG:HH12	1.68	0.58
1:C:778:ARG:NH2	1:C:780:ASP:OD2	2.36	0.58
1:D:77:VAL:O	1:D:77:VAL:HG22	2.03	0.58
1:D:233:PHE:HZ	1:D:243:ALA:HB1	1.69	0.58
1:E:410:ASN:HB2	1:E:415:ARG:HG2	1.84	0.58
1:E:425:PRO:HG3	1:E:431:GLU:HB2	1.86	0.58
1:H:470:ASP:OD1	1:H:471:ALA:N	2.36	0.58
1:H:867:PRO:CB	4:n:80:ALA:HB3	2.30	0.58
1:H:1057:ARG:O	1:H:1118:PRO:O	2.21	0.58
1:J:375:VAL:CG2	1:J:1065:PHE:HE1	2.16	0.58
1:J:586:LEU:HD23	1:J:1245:TRP:CZ2	2.38	0.58
1:L:96:GLN:HB2	1:M:60:SER:HA	1.84	0.58
1:M:445:LYS:HB2	1:M:1121:ASP:O	2.02	0.58
1:M:544:HIS:HE1	1:M:1252:TYR:CE1	2.20	0.58
1:M:840:GLN:CD	4:f:58:ALA:CA	2.77	0.58
1:M:1052:VAL:HA	1:M:1186:GLU:O	2.04	0.58
1:N:541:LEU:HD21	1:N:571:ILE:HD11	1.84	0.58
1:N:1131:LEU:HD23	1:N:1159:PRO:HG3	1.85	0.58
1:N:1259:GLY:HA3	1:N:1274:PHE:HE1	1.68	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:440:LEU:O	1:O:451:ARG:HA	2.03	0.58
1:O:815:VAL:HG22	1:O:1028:TYR:HE2	1.69	0.58
2:Q:295:VAL:HG12	2:Q:314:VAL:HG13	1.85	0.58
2:U:6:PHE:CD2	2:U:6:PHE:O	2.57	0.58
2:W:293:PRO:HG2	2:W:318:PRO:HG3	1.84	0.58
2:Z:114:VAL:CG2	2:Z:145:THR:HG22	2.33	0.58
2:a:287:ASP:O	2:a:290:ALA:O	2.21	0.58
4:k:77:PRO:CD	4:k:80:ALA:HB2	2.29	0.58
4:r:46:THR:CG2	4:r:50:VAL:HG11	2.18	0.58
4:t:46:THR:OG1	4:t:50:VAL:CG1	2.49	0.58
1:A:289:LEU:HD22	1:A:377:LEU:HD21	1.84	0.58
1:A:403:VAL:CG2	1:A:1331:ALA:CB	2.79	0.58
1:C:318:THR:HG21	1:L:322:MET:SD	2.44	0.58
1:D:134:SER:H	1:M:44:SER:HB3	1.67	0.58
1:D:1190:THR:HG22	1:D:1243:ASN:ND2	2.18	0.58
1:D:1222:VAL:O	1:D:1223:ILE:HB	2.03	0.58
1:E:320:LEU:HD12	1:E:321:VAL:HG23	1.86	0.58
1:E:1225:LEU:HD21	1:E:1234:PRO:CG	2.34	0.58
1:F:75:LEU:HD11	1:F:188:LEU:CD1	2.33	0.58
1:F:255:THR:OG1	1:F:1067:GLU:OE2	2.18	0.58
1:I:1241:THR:HG22	1:I:1247:SER:OG	2.03	0.58
1:J:578:VAL:HG12	1:J:1030:LYS:HA	1.84	0.58
1:J:1053:VAL:O	1:J:1186:GLU:N	2.37	0.58
1:J:1259:GLY:HA3	1:J:1274:PHE:HE1	1.69	0.58
1:K:214:VAL:HG21	1:L:1307:SER:O	2.03	0.58
1:L:1152:VAL:CG1	1:L:1159:PRO:HD2	2.33	0.58
1:L:1348:ASP:CB	1:L:1352:HIS:CE1	2.86	0.58
1:N:280:THR:O	1:N:392:TYR:OH	2.16	0.58
1:O:317:VAL:O	1:O:321:VAL:HG22	2.04	0.58
1:O:553:VAL:CG2	1:O:556:VAL:HG13	2.33	0.58
1:O:889:PRO:CG	4:s:69:ALA:HB1	2.34	0.58
1:P:444:GLY:HA3	1:P:450:LEU:CD1	2.33	0.58
1:P:545:PRO:O	1:P:576:ARG:NH1	2.36	0.58
2:R:47:ALA:HB3	2:R:135:LEU:HD22	1.85	0.58
2:T:16:ILE:CG2	2:T:133:LEU:HD23	2.34	0.58
2:T:100:LEU:O	2:T:311:MET:SD	2.62	0.58
2:U:34:LEU:HD12	2:U:36:THR:O	2.04	0.58
3:V:33:LEU:CA	3:V:36:VAL:CG1	2.80	0.58
3:V:433:PRO:CB	3:V:453:GLU:H	2.16	0.58
2:W:189:VAL:CG1	2:W:191:ASP:H	2.16	0.58
3:Y:210:HIS:CE1	3:Y:442:PHE:CG	2.91	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Y:288:ILE:N	3:Y:289:PRO:HD3	2.19	0.58
2:a:92:LEU:HD23	2:a:98:VAL:H	1.68	0.58
3:b:199:ASP:O	3:b:200:ALA:HB2	2.03	0.58
3:b:214:ASN:HD21	3:b:441:ARG:CB	2.16	0.58
3:b:215:TYR:HD1	3:b:215:TYR:N	2.02	0.58
2:c:100:LEU:O	2:c:311:MET:SD	2.62	0.58
4:i:50:VAL:HG13	4:i:50:VAL:O	2.03	0.58
4:n:77:PRO:CD	4:n:80:ALA:HB2	2.29	0.58
4:t:46:THR:CG2	4:t:50:VAL:HG11	2.18	0.58
1:G:532:MET:HE3	1:G:534:PRO:HG2	1.82	0.58
1:G:822:ARG:HH22	1:G:1013:SER:HG	1.52	0.58
1:G:1065:PHE:O	1:G:1108:ALA:HA	2.04	0.58
1:B:23:ILE:HD12	1:B:65:LEU:CD2	2.33	0.58
1:B:408:LEU:CD1	1:B:1199:PHE:HE2	2.17	0.58
1:B:840:GLN:OE1	4:h:58:ALA:HB2	2.04	0.58
1:C:1229:HIS:O	1:C:1231:GLN:N	2.36	0.58
1:D:1236:ARG:CZ	1:D:1242:ALA:HB2	2.32	0.58
1:E:28:GLU:HA	1:H:101:GLN:HE22	1.68	0.58
1:E:724:HIS:CD2	1:E:726:MET:H	2.22	0.58
1:E:1229:HIS:CD2	1:E:1241:THR:HG23	2.39	0.58
1:F:668:TYR:HB2	1:F:812:TYR:CD2	2.39	0.58
1:I:429:HIS:CD2	1:I:429:HIS:N	2.71	0.58
1:I:1259:GLY:HA3	1:I:1274:PHE:HE1	1.69	0.58
1:J:186:HIS:CE1	1:J:393:PRO:HG3	2.39	0.58
1:J:406:LEU:HD11	1:J:452:LEU:HD13	1.85	0.58
1:J:484:ALA:O	1:J:485:ASN:OD1	2.21	0.58
1:J:606:MET:HG3	1:J:696:HIS:CD2	2.38	0.58
1:K:847:ILE:HG21	4:p:70:ASN:O	2.04	0.58
1:K:1056:ASP:OD1	1:K:1120:THR:HG23	2.03	0.58
1:L:410:ASN:O	1:L:415:ARG:NH2	2.29	0.58
1:L:494:PRO:HD3	1:L:909:LEU:HD12	1.85	0.58
1:L:530:GLN:HA	1:L:536:ASN:ND2	2.19	0.58
1:L:985:ARG:NH1	1:M:705:ASP:OD1	2.36	0.58
1:M:29:VAL:CG1	1:M:30:ALA:N	2.66	0.58
1:M:621:ARG:O	1:M:943:GLN:HG2	2.02	0.58
1:N:1059:VAL:O	1:N:1116:ARG:N	2.36	0.58
1:N:1221:ASP:OD1	1:N:1222:VAL:N	2.36	0.58
1:P:293:LEU:CD1	1:P:368:VAL:HG11	2.33	0.58
2:Q:105:PRO:HG2	2:Q:186:LEU:HD11	1.78	0.58
2:Q:160:ILE:CD1	2:Q:210:VAL:HG21	2.33	0.58
2:Q:182:ASN:HB3	3:S:136:HIS:ND1	2.18	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R:152:VAL:HG21	2:R:290:ALA:HB2	1.85	0.58
3:S:288:ILE:N	3:S:289:PRO:HD3	2.19	0.58
2:U:47:ALA:CB	2:U:135:LEU:HD22	2.33	0.58
2:U:92:LEU:O	2:U:94:HIS:HD2	1.87	0.58
2:X:287:ASP:O	2:X:290:ALA:O	2.21	0.58
2:Z:98:VAL:O	2:Z:98:VAL:HG13	2.02	0.58
2:Z:112:ASP:O	2:Z:145:THR:HG23	2.03	0.58
2:Z:189:VAL:CG1	2:Z:191:ASP:H	2.16	0.58
3:b:297:ASP:O	3:b:330:VAL:HA	2.03	0.58
3:b:304:GLY:H	3:b:333:GLN:HE22	1.49	0.58
3:b:418:THR:O	3:b:419:TYR:CD1	2.57	0.58
3:e:83:THR:O	3:e:87:VAL:HG23	2.03	0.58
4:f:16:ASN:HA	4:f:20:LEU:HD12	1.84	0.58
4:i:46:THR:OG1	4:i:50:VAL:CG1	2.49	0.58
4:l:23:ARG:O	4:l:25:LEU:N	2.34	0.58
4:r:50:VAL:HG13	4:r:50:VAL:O	2.03	0.58
1:G:804:ASP:HB3	1:G:808:HIS:HE1	1.68	0.58
1:A:90:MET:SD	1:B:31:SER:CB	2.79	0.58
1:A:1241:THR:CG2	1:A:1247:SER:OG	2.50	0.58
1:A:1287:ARG:CZ	1:A:1287:ARG:HB3	2.34	0.58
1:B:828:ALA:HB1	1:B:956:TYR:O	2.02	0.58
1:C:102:PRO:HB3	1:D:65:LEU:HD11	1.86	0.58
1:C:1115:VAL:HB	1:C:1374:LEU:HD11	1.86	0.58
1:C:1157:LEU:HD21	1:C:1309:VAL:HG11	1.86	0.58
1:E:31:SER:C	1:E:33:ARG:H	2.10	0.58
1:E:73:LEU:HD12	1:E:74:GLY:H	1.68	0.58
1:F:580:GLY:HA2	1:F:592:ARG:NH1	2.19	0.58
1:F:840:GLN:CD	4:l:58:ALA:HB2	2.28	0.58
1:H:530:GLN:CB	1:H:536:ASN:HD21	2.16	0.58
1:I:86:GLU:CB	1:I:89:TYR:HD2	2.08	0.58
1:I:1229:HIS:NE2	1:I:1241:THR:CG2	2.67	0.58
1:J:400:LEU:CD2	1:J:1368:PRO:CD	2.74	0.58
1:J:446:ASP:OD2	1:J:1179:HIS:CE1	2.54	0.58
1:J:521:VAL:HG22	1:J:521:VAL:O	2.01	0.58
1:J:667:ASP:OD1	1:J:669:SER:CB	2.52	0.58
1:L:836:TYR:HD1	1:L:897:LEU:HD13	1.68	0.58
1:L:847:ILE:HG21	4:q:71:ASN:CA	2.34	0.58
1:M:866:HIS:CD2	1:M:868:ALA:H	2.22	0.58
1:N:308:GLU:OE1	3:V:78:ALA:CB	2.52	0.58
1:O:837:ALA:HB3	4:t:94:LEU:O	2.02	0.58
1:O:1062:ASN:HD22	1:O:1112:THR:HA	1.68	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:201:MET:C	1:P:205:LEU:HD23	2.29	0.58
2:R:129:ARG:NH1	2:R:136:THR:HG21	2.18	0.58
3:S:317:ARG:CB	3:S:324:LEU:N	2.64	0.58
3:V:140:LEU:C	3:V:142:HIS:N	2.62	0.58
2:a:35:PRO:HA	2:a:70:ARG:NH1	2.09	0.58
2:a:97:THR:OG1	2:a:314:VAL:N	2.35	0.58
3:b:255:VAL:HG12	3:b:255:VAL:O	2.02	0.58
2:d:47:ALA:CB	2:d:135:LEU:HD22	2.33	0.58
4:g:1:MET:H2	4:g:5:GLN:CB	2.15	0.58
4:g:35:ILE:C	4:g:36:MET:SD	2.87	0.58
4:h:35:ILE:C	4:h:36:MET:SD	2.87	0.58
4:i:9:PRO:HB3	4:i:17:VAL:CB	2.32	0.58
4:n:22:MET:CB	4:n:64:LEU:HD21	2.33	0.58
4:s:9:PRO:HB2	4:s:19:ALA:H	1.68	0.58
4:s:35:ILE:C	4:s:36:MET:SD	2.87	0.58
1:G:191:LYS:HG3	1:G:191:LYS:O	2.04	0.58
1:G:641:PHE:HE2	1:G:677:TYR:HB2	1.69	0.58
1:A:296:GLU:O	1:A:367:LEU:HB2	2.04	0.58
1:A:485:ASN:CB	1:A:512:ARG:O	2.52	0.58
1:B:50:TYR:N	1:B:50:TYR:CD1	2.71	0.58
1:B:68:VAL:HG11	1:B:384:ILE:HG22	1.85	0.58
1:B:129:LEU:O	1:B:1094:THR:HA	2.04	0.58
1:B:318:THR:HG23	1:B:322:MET:HE3	1.85	0.58
1:C:256:GLN:HG3	1:M:25:SER:HB2	1.85	0.58
1:D:1354:ARG:HH22	1:D:1357:HIS:HD2	1.51	0.58
1:E:90:MET:HE1	1:F:58:LEU:HD11	1.86	0.58
1:E:433:ARG:HH12	1:E:1341:ALA:HB3	1.68	0.58
1:E:1188:ILE:HD11	1:E:1273:CYS:SG	2.43	0.58
1:F:77:VAL:O	1:F:77:VAL:HG13	2.03	0.58
1:H:487:TYR:HE1	1:H:505:PHE:HZ	1.51	0.58
1:H:1258:ASN:HA	1:H:1277:PHE:O	2.04	0.58
1:I:1225:LEU:HD13	1:I:1225:LEU:O	2.04	0.58
1:I:1229:HIS:CD2	1:I:1248:GLN:HG2	2.38	0.58
1:J:461:VAL:HG21	1:J:1036:LEU:HD23	1.85	0.58
1:J:790:ARG:NH2	4:o:101:PHE:O	2.37	0.58
1:K:154:SER:O	1:K:155:LEU:C	2.43	0.58
1:K:607:ALA:O	1:K:610:THR:HG22	2.03	0.58
1:K:840:GLN:HA	4:p:61:LEU:HD11	1.86	0.58
1:L:533:GLN:N	1:L:534:PRO:HD2	2.18	0.58
1:L:833:ASP:O	4:q:54:LEU:CD1	2.47	0.58
1:M:124:ILE:HD11	1:N:58:LEU:HD12	1.84	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:193:PRO:HG2	1:M:198:LEU:HD12	1.85	0.58
1:N:77:VAL:CG1	1:N:277:VAL:HG22	2.34	0.58
1:O:27:ILE:CD1	1:O:32:HIS:CD2	2.77	0.58
1:O:1223:ILE:CD1	1:O:1279:ALA:HB1	2.33	0.58
2:Q:33:PHE:CB	2:Q:70:ARG:CD	2.73	0.58
2:Q:267:ARG:HB3	2:Q:270:PRO:HD2	1.86	0.58
3:V:106:PRO:C	3:V:107:ARG:HG2	2.29	0.58
2:X:47:ALA:CB	2:X:135:LEU:HD22	2.33	0.58
2:a:35:PRO:O	2:a:70:ARG:HG2	2.04	0.58
3:b:134:LEU:HD22	3:b:185:VAL:HG21	1.86	0.58
2:c:16:ILE:CG2	2:c:133:LEU:HD23	2.34	0.58
3:e:106:PRO:C	3:e:107:ARG:HG2	2.29	0.58
3:e:141:PRO:HG2	3:e:157:LEU:HB3	1.86	0.58
3:e:288:ILE:N	3:e:289:PRO:HD3	2.19	0.58
4:n:90:PRO:CB	4:n:105:ASP:O	2.52	0.58
4:o:16:ASN:CB	4:o:20:LEU:HG	2.34	0.58
4:p:35:ILE:C	4:p:36:MET:SD	2.87	0.58
1:G:294:LYS:CG	1:G:295:VAL:H	2.17	0.58
1:G:520:TRP:CE3	1:G:520:TRP:C	2.82	0.58
1:G:976:PHE:CE2	1:G:981:ARG:HD2	2.39	0.58
1:A:213:ARG:HG2	1:A:213:ARG:O	2.02	0.58
1:A:842:MET:SD	4:g:61:LEU:HD22	2.44	0.58
1:A:914:PRO:HG2	1:A:923:THR:HB	1.86	0.58
1:B:629:LEU:HB3	1:B:839:LEU:HD21	1.84	0.58
1:C:961:HIS:NE2	1:C:1002:ILE:O	2.32	0.58
1:C:1342:LEU:O	1:C:1345:SER:OG	2.18	0.58
1:D:833:ASP:OD1	1:D:834:ARG:N	2.37	0.58
1:F:407:GLY:HA2	1:F:437:PRO:O	2.03	0.58
1:F:1037:TYR:CZ	1:F:1147:LEU:HD11	2.39	0.58
1:H:510:ARG:NH2	1:H:978:PRO:HD2	2.18	0.58
1:H:1347:ARG:O	1:H:1348:ASP:HB2	2.03	0.58
1:J:99:VAL:HG22	1:J:120:MET:HE1	1.86	0.58
1:J:298:THR:O	1:J:367:LEU:HD12	2.04	0.58
1:J:406:LEU:CD1	1:J:452:LEU:HB3	2.30	0.58
1:K:946:ASP:HB3	1:L:676:THR:HG21	1.86	0.58
1:L:445:LYS:HG3	1:L:1118:PRO:HG2	1.85	0.58
1:M:494:PRO:HB3	1:M:757:ASP:CB	2.24	0.58
1:M:790:ARG:HH22	4:f:101:PHE:CB	2.17	0.58
1:N:534:PRO:HD3	1:N:1229:HIS:O	2.04	0.58
1:O:1115:VAL:CG1	1:O:1374:LEU:HD22	2.32	0.58
1:P:750:ARG:NH2	1:P:913:ALA:O	2.36	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:189:VAL:CG1	2:Q:191:ASP:H	2.16	0.58
3:S:160:ALA:HA	3:S:163:GLN:HB2	1.86	0.58
3:S:250:GLY:HA3	3:S:271:GLN:HE22	1.69	0.58
3:S:437:HIS:O	3:S:449:VAL:O	2.22	0.58
3:Y:141:PRO:HG2	3:Y:158:ALA:CA	2.33	0.58
3:Y:419:TYR:CE1	3:Y:466:ALA:O	2.57	0.58
2:Z:160:ILE:HG23	2:a:223:LEU:HD21	1.85	0.58
3:b:197:ALA:CB	3:b:324:LEU:CD2	2.82	0.58
2:c:272:TYR:CE2	2:d:161:ARG:CG	2.71	0.58
2:d:97:THR:O	2:d:97:THR:OG1	2.22	0.58
3:e:352:ILE:HG21	3:e:417:CYS:HA	1.86	0.58
4:f:9:PRO:CG	4:f:18:ARG:O	2.50	0.58
4:i:46:THR:CG2	4:i:50:VAL:HG12	2.30	0.58
4:l:35:ILE:C	4:l:36:MET:SD	2.87	0.58
4:p:50:VAL:HG13	4:p:50:VAL:O	2.03	0.58
1:G:289:LEU:O	1:G:289:LEU:HD12	2.03	0.57
1:G:411:PRO:O	1:G:415:ARG:HG3	2.04	0.57
1:G:1082:ARG:O	1:G:1082:ARG:HG3	2.03	0.57
1:G:1223:ILE:HG23	1:G:1249:ARG:NH2	2.19	0.57
1:G:1342:LEU:O	1:G:1345:SER:OG	2.16	0.57
1:A:1237:PRO:CB	1:B:1156:ARG:HH22	2.17	0.57
1:B:47:ASN:C	1:B:48:SER:OG	2.44	0.57
1:B:1258:ASN:OD1	1:B:1259:GLY:N	2.37	0.57
1:C:425:PRO:HG3	1:C:431:GLU:HB2	1.86	0.57
1:D:463:HIS:C	1:D:465:SER:H	2.12	0.57
1:D:744:ARG:HH12	1:D:803:ALA:CA	2.17	0.57
1:D:873:ASN:OD1	4:k:92:PHE:C	2.47	0.57
1:F:439:GLN:HA	1:F:453:SER:HA	1.86	0.57
1:H:582:LEU:HD13	1:H:587:CYS:HB2	1.86	0.57
1:I:1216:GLY:CA	1:I:1221:ASP:OD2	2.50	0.57
1:J:304:VAL:CG2	1:J:358:PRO:CB	2.81	0.57
1:J:487:TYR:OH	1:J:989:LEU:HA	2.04	0.57
1:J:514:ALA:HA	1:J:983:LEU:HD13	1.86	0.57
1:L:840:GLN:HA	4:q:61:LEU:HD11	1.85	0.57
1:L:1196:ILE:O	1:L:1198:TYR:O	2.21	0.57
1:N:1229:HIS:CD2	1:N:1241:THR:HG23	2.38	0.57
1:O:544:HIS:CD2	1:O:546:ALA:H	2.22	0.57
1:P:403:VAL:CG2	1:P:1331:ALA:HB1	2.32	0.57
2:Q:33:PHE:CE2	2:Q:72:PRO:HB3	2.40	0.57
2:Q:112:ASP:O	2:Q:145:THR:HG23	2.03	0.57
3:V:109:HIS:ND1	3:V:267:CYS:CB	2.62	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:V:250:GLY:HA3	3:V:271:GLN:HE22	1.69	0.57
3:V:288:ILE:N	3:V:289:PRO:HD3	2.19	0.57
3:Y:296:LEU:HD23	3:Y:434:ARG:NH1	2.18	0.57
2:Z:100:LEU:O	2:Z:311:MET:SD	2.62	0.57
2:a:35:PRO:HA	2:a:70:ARG:NE	2.13	0.57
3:b:250:GLY:HA3	3:b:271:GLN:HE22	1.69	0.57
3:e:140:LEU:HD11	3:e:161:TRP:CE3	2.39	0.57
3:e:339:LEU:HD23	3:e:422:PHE:CG	2.34	0.57
4:f:46:THR:OG1	4:f:50:VAL:CG1	2.49	0.57
4:i:23:ARG:O	4:i:25:LEU:N	2.34	0.57
4:j:35:ILE:C	4:j:36:MET:SD	2.87	0.57
4:m:50:VAL:HG13	4:m:50:VAL:O	2.03	0.57
1:G:416:PHE:CE2	1:G:1356:THR:HG21	2.39	0.57
1:G:681:ASP:O	1:G:682:LEU:HD12	2.05	0.57
1:B:78:ALA:HB2	1:B:277:VAL:HG21	1.86	0.57
1:C:726:MET:HE3	1:C:815:VAL:HG23	1.85	0.57
1:D:696:HIS:CE1	1:D:1021:THR:HG21	2.39	0.57
1:D:892:LEU:HD11	4:j:65:GLY:HA2	1.87	0.57
1:F:904:ARG:HH12	1:F:906:THR:HG23	1.67	0.57
1:H:73:LEU:O	1:H:74:GLY:C	2.46	0.57
1:I:1078:LEU:HB2	3:Y:40:PRO:CD	2.33	0.57
1:I:1235:ALA:O	1:J:1179:HIS:NE2	2.37	0.57
1:J:408:LEU:HB2	1:J:1196:ILE:HD11	1.86	0.57
1:J:485:ASN:HD21	1:J:516:GLY:C	2.10	0.57
1:J:486:PRO:O	1:J:509:TRP:CZ3	2.55	0.57
1:J:917:GLY:O	1:J:918:ALA:HB3	2.04	0.57
1:K:347:ASN:HD21	1:L:163:GLN:C	2.06	0.57
1:L:71:LEU:CD1	1:L:304:VAL:O	2.52	0.57
1:L:176:PHE:O	1:L:180:THR:HG23	2.04	0.57
1:L:304:VAL:HG22	1:L:305:THR:N	2.18	0.57
1:L:364:ARG:NH1	1:L:365:ALA:O	2.37	0.57
1:M:43:ARG:HG3	1:M:44:SER:N	2.19	0.57
1:M:623:TYR:OH	1:M:663:ALA:O	2.17	0.57
1:M:838:THR:HG23	4:r:94:LEU:HA	1.86	0.57
1:N:863:HIS:CE1	1:N:865:LEU:HB2	2.39	0.57
1:N:1206:ARG:NH1	1:N:1226:MET:CG	2.60	0.57
1:P:1196:ILE:O	1:P:1196:ILE:HG22	2.03	0.57
2:Q:98:VAL:O	2:Q:98:VAL:HG13	2.02	0.57
2:R:5:CYS:O	2:R:6:PHE:C	2.46	0.57
3:V:200:ALA:HB3	3:V:294:VAL:CG1	2.33	0.57
3:V:288:ILE:HG23	3:V:457:TRP:HH2	1.66	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:X:34:LEU:HD12	2:X:36:THR:O	2.03	0.57
3:b:291:CYS:SG	3:b:292:ALA:N	2.77	0.57
2:d:13:PRO:HG2	2:d:133:LEU:HD13	1.85	0.57
4:j:3:ALA:HB2	4:j:38:ASN:O	1.97	0.57
4:l:77:PRO:CD	4:l:80:ALA:HB2	2.29	0.57
4:m:35:ILE:C	4:m:36:MET:SD	2.87	0.57
4:o:35:ILE:C	4:o:36:MET:SD	2.87	0.57
4:r:23:ARG:O	4:r:25:LEU:N	2.34	0.57
4:r:35:ILE:C	4:r:36:MET:SD	2.87	0.57
4:t:35:ILE:C	4:t:36:MET:SD	2.87	0.57
1:G:215:ALA:O	1:G:218:THR:OG1	2.19	0.57
1:G:298:THR:HG21	1:G:362:ARG:CD	2.32	0.57
1:G:414:GLU:HA	1:G:416:PHE:CD1	2.39	0.57
1:G:1029:PHE:HB3	1:G:1039:GLN:HE21	1.69	0.57
1:G:1182:ASP:HB2	1:G:1309:VAL:CG1	2.33	0.57
1:G:1302:THR:HB	1:G:1313:ARG:HB3	1.85	0.57
1:A:321:VAL:CG1	1:A:326:VAL:CA	2.81	0.57
1:A:485:ASN:HB2	1:A:512:ARG:O	2.04	0.57
1:A:817:VAL:O	1:A:821:SER:HB3	2.04	0.57
1:B:125:ASP:OD1	1:B:126:ARG:N	2.36	0.57
1:B:733:PRO:HG2	1:B:736:VAL:HG22	1.84	0.57
1:B:1080:VAL:HG12	1:B:1081:ALA:N	2.19	0.57
1:D:300:ALA:HB1	1:D:362:ARG:HD2	1.86	0.57
1:D:611:ILE:HG23	1:D:820:PHE:HE1	1.68	0.57
1:D:1369:LEU:HD13	1:D:1372:LEU:HD12	1.86	0.57
1:E:71:LEU:HD21	1:E:306:TYR:CD1	2.39	0.57
1:E:833:ASP:OD1	1:E:834:ARG:N	2.36	0.57
1:F:1181:GLN:HE21	1:F:1310:GLN:HA	1.68	0.57
1:F:1206:ARG:NH1	1:F:1247:SER:O	2.37	0.57
1:I:143:LEU:HD22	1:I:161:ALA:HB1	1.84	0.57
1:I:1137:PRO:HG3	2:X:238:ASN:OD1	2.04	0.57
1:I:1160:ALA:O	1:I:1161:GLN:HG2	2.03	0.57
1:J:765:TYR:CE2	1:J:797:ASP:HB3	2.39	0.57
1:J:918:ALA:CB	1:J:1032:SER:HB2	2.23	0.57
1:J:1026:ALA:HA	1:J:1029:PHE:CE2	2.39	0.57
1:L:1134:GLY:HA3	1:L:1263:LEU:HA	1.86	0.57
1:M:87:LEU:O	1:M:88:ALA:C	2.44	0.57
1:M:726:MET:HE1	1:M:814:TYR:CB	2.34	0.57
1:M:1237:PRO:CB	1:N:1156:ARG:NH2	2.52	0.57
1:N:99:VAL:CG2	1:N:120:MET:HE1	2.23	0.57
1:N:1074:PHE:CZ	1:O:58:LEU:HD23	2.39	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:1197:ASN:HA	1:N:1200:ARG:HG2	1.85	0.57
1:O:960:VAL:HA	1:O:994:LEU:HD13	1.86	0.57
1:O:1115:VAL:HG12	1:O:1374:LEU:CD2	2.33	0.57
2:Q:100:LEU:O	2:Q:311:MET:SD	2.62	0.57
2:Q:126:THR:O	2:Q:126:THR:HG23	2.03	0.57
2:R:6:PHE:O	2:R:6:PHE:CD2	2.57	0.57
2:T:108:LEU:HD13	3:V:136:HIS:CE1	2.40	0.57
2:Z:16:ILE:CG2	2:Z:133:LEU:HD23	2.34	0.57
2:Z:33:PHE:CE2	2:Z:72:PRO:HB3	2.40	0.57
2:Z:217:THR:C	2:Z:221:LEU:HD21	2.30	0.57
2:Z:222:THR:HG21	2:a:246:VAL:HG21	1.86	0.57
2:Z:267:ARG:HB3	2:Z:270:PRO:HD2	1.86	0.57
3:e:250:GLY:HA3	3:e:271:GLN:HE22	1.69	0.57
4:g:77:PRO:CD	4:g:80:ALA:HB2	2.29	0.57
4:j:23:ARG:O	4:j:25:LEU:N	2.34	0.57
4:k:23:ARG:O	4:k:25:LEU:N	2.34	0.57
4:k:50:VAL:HG13	4:k:50:VAL:O	2.03	0.57
4:n:3:ALA:HB2	4:n:38:ASN:O	1.97	0.57
4:t:90:PRO:CB	4:t:105:ASP:O	2.52	0.57
1:G:195:LEU:HD23	1:G:1111:ALA:HB2	1.85	0.57
1:G:263:ARG:C	1:G:264:LEU:HD12	2.29	0.57
1:G:295:VAL:HG22	1:G:369:ALA:CA	2.33	0.57
1:G:403:VAL:HG23	1:G:1331:ALA:CB	2.34	0.57
1:G:832:PHE:C	1:G:836:TYR:CD2	2.74	0.57
1:G:1222:VAL:O	1:G:1223:ILE:HB	2.05	0.57
1:A:1248:GLN:HB2	1:A:1251:SER:HB2	1.85	0.57
1:B:140:ILE:HD13	1:B:1089:VAL:CG1	2.34	0.57
1:B:347:ASN:OD1	1:B:349:GLU:N	2.34	0.57
1:B:833:ASP:OD1	1:B:834:ARG:N	2.38	0.57
1:B:1318:ARG:HH22	3:S:257:GLN:CA	2.17	0.57
1:C:536:ASN:C	1:C:538:ASN:H	2.13	0.57
1:C:933:LEU:CD2	1:C:958:LEU:HD23	2.35	0.57
1:D:302:VAL:HG12	1:D:302:VAL:O	2.04	0.57
1:E:840:GLN:CD	4:k:58:ALA:HA	2.30	0.57
1:E:1299:ALA:O	1:E:1321:VAL:O	2.22	0.57
1:H:836:TYR:HB2	4:m:54:LEU:HD13	1.86	0.57
1:I:27:ILE:HG21	1:I:32:HIS:ND1	2.20	0.57
1:I:620:ASP:HA	1:J:691:ARG:NH1	2.19	0.57
1:J:81:CYS:SG	1:J:306:TYR:HE1	2.27	0.57
1:J:184:MET:C	1:J:188:LEU:CG	2.71	0.57
1:J:540:ALA:O	1:J:543:LEU:HD11	2.04	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:646:ARG:HD2	4:o:79:PHE:CB	2.33	0.57
1:J:1272:PRO:O	1:J:1276:PHE:HD1	1.86	0.57
1:K:142:LEU:HD22	1:K:158:GLN:HA	1.86	0.57
1:L:201:MET:HG2	1:L:1293:ILE:CD1	2.34	0.57
1:L:847:ILE:HG21	4:q:71:ASN:HA	1.85	0.57
1:M:915:ASP:OD2	1:M:1030:LYS:NZ	2.37	0.57
1:N:258:SER:OG	1:N:1102:LEU:O	2.22	0.57
1:N:596:GLY:HA3	1:N:1023:ALA:HB2	1.85	0.57
1:N:730:ALA:CB	1:N:750:ARG:HH12	2.15	0.57
1:N:1008:GLN:HE21	1:N:1012:GLU:HB2	1.70	0.57
1:N:1213:VAL:HG21	1:N:1327:LEU:HD23	1.87	0.57
1:P:1354:ARG:HH22	1:P:1357:HIS:HD2	1.50	0.57
3:V:300:LEU:HD22	3:V:333:GLN:H	1.69	0.57
3:Y:209:ALA:HB3	3:Y:445:VAL:HG11	1.85	0.57
3:Y:296:LEU:HD21	3:Y:434:ARG:HH11	1.66	0.57
2:a:30:ARG:O	2:a:75:ILE:HD13	2.01	0.57
2:a:68:ARG:CD	3:b:337:ARG:HG2	2.19	0.57
3:b:284:SER:O	3:b:285:ALA:CB	2.53	0.57
3:b:299:GLU:O	3:b:299:GLU:HG2	2.03	0.57
2:d:6:PHE:O	2:d:6:PHE:CD2	2.57	0.57
4:f:35:ILE:C	4:f:36:MET:SD	2.87	0.57
4:k:35:ILE:C	4:k:36:MET:SD	2.87	0.57
4:l:50:VAL:HG13	4:l:50:VAL:O	2.03	0.57
4:m:46:THR:CG2	4:m:50:VAL:HG12	2.30	0.57
4:r:23:ARG:C	4:r:25:LEU:N	2.59	0.57
1:G:951:ASN:ND2	1:G:972:ASN:O	2.37	0.57
1:A:1061:GLU:O	1:A:1062:ASN:ND2	2.37	0.57
1:B:77:VAL:O	1:B:264:LEU:HD11	2.04	0.57
1:B:106:ARG:HH21	1:C:390:VAL:HG13	1.69	0.57
1:B:277:VAL:HG21	1:B:1066:SER:HB3	1.86	0.57
1:B:1291:ARG:O	1:B:1294:VAL:N	2.36	0.57
1:C:842:MET:HE1	1:C:894:LEU:HD23	1.85	0.57
1:D:81:CYS:CB	1:D:306:TYR:HE1	2.17	0.57
1:D:99:VAL:HG23	1:E:63:ASN:ND2	2.19	0.57
1:D:249:VAL:O	1:D:253:THR:OG1	2.23	0.57
1:E:842:MET:CG	4:k:61:LEU:CD2	2.82	0.57
1:F:37:ASP:OD1	1:F:38:PHE:N	2.34	0.57
1:H:1206:ARG:O	1:H:1246:ALA:HB3	2.04	0.57
1:I:1263:LEU:C	1:I:1265:GLY:H	2.12	0.57
1:J:400:LEU:CD2	1:J:1368:PRO:HG2	2.33	0.57
1:J:863:HIS:CE1	1:J:865:LEU:HB2	2.39	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:1229:HIS:NE2	1:J:1241:THR:HG21	2.19	0.57
1:K:106:ARG:HH21	1:L:390:VAL:HG13	1.68	0.57
1:K:840:GLN:O	4:p:57:GLN:HG2	2.04	0.57
1:M:591:PHE:HZ	1:M:1045:HIS:CD2	2.21	0.57
1:M:618:PHE:HA	1:M:940:MET:HB3	1.85	0.57
1:M:621:ARG:HG3	1:M:622:SER:N	2.20	0.57
1:N:846:GLU:CD	4:r:67:THR:OG1	2.46	0.57
1:P:150:GLY:O	1:P:155:LEU:HD13	2.05	0.57
1:P:696:HIS:CE1	1:P:1021:THR:HG21	2.39	0.57
2:R:18:ARG:N	2:R:19:PRO:CD	2.68	0.57
2:R:92:LEU:O	2:R:94:HIS:HD2	1.87	0.57
3:V:168:SER:CB	3:V:223:ARG:HD3	2.35	0.57
2:W:93:THR:HB	2:W:317:TYR:HB3	1.87	0.57
2:X:38:ARG:NH2	3:Y:305:PRO:HD2	2.19	0.57
3:Y:434:ARG:O	3:Y:434:ARG:HG3	2.04	0.57
4:j:46:THR:CG2	4:j:50:VAL:HG12	2.30	0.57
4:k:3:ALA:HB2	4:k:38:ASN:O	1.97	0.57
1:G:505:PHE:CE1	1:G:509:TRP:CE2	2.93	0.57
1:G:1120:THR:CG2	1:G:1121:ASP:N	2.67	0.57
1:G:1170:GLN:HG2	2:R:180:TYR:HB2	1.86	0.57
1:A:454:MET:O	1:A:456:ASN:N	2.38	0.57
1:A:544:HIS:CD2	1:A:546:ALA:H	2.21	0.57
1:B:124:ILE:HD11	1:B:126:ARG:HE	1.67	0.57
1:B:558:LEU:HD21	1:B:999:PHE:CZ	2.39	0.57
1:C:1206:ARG:HB2	1:C:1277:PHE:HE1	1.65	0.57
1:D:599:LEU:O	1:D:603:ARG:NH1	2.38	0.57
1:D:642:CYS:O	4:j:87:TRP:CB	2.53	0.57
1:D:735:LEU:HD22	1:D:936:GLY:HA3	1.87	0.57
1:E:1291:ARG:O	1:E:1294:VAL:N	2.34	0.57
1:F:94:ARG:HG2	1:F:123:VAL:HG22	1.86	0.57
1:F:297:ASP:OD1	1:F:297:ASP:N	2.31	0.57
1:H:104:ILE:HG12	1:I:178:ARG:HB3	1.86	0.57
1:H:681:ASP:O	1:H:682:LEU:HD12	2.04	0.57
1:H:752:ARG:HG3	1:H:927:ARG:NE	2.20	0.57
1:I:284:ILE:CD1	1:I:1113:ALA:HB3	2.35	0.57
1:I:380:LEU:HD12	1:I:385:TYR:CD2	2.39	0.57
1:J:261:VAL:N	1:J:1068:ARG:HH22	1.97	0.57
1:J:402:PHE:CD1	1:J:1333:PRO:C	2.64	0.57
1:J:575:TRP:HH2	1:J:1030:LYS:HE2	1.69	0.57
1:J:656:TRP:HZ2	1:J:685:GLU:HG2	1.69	0.57
1:J:1019:ALA:HA	1:J:1022:TYR:CD2	2.35	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:1131:LEU:HD23	1:J:1159:PRO:HG3	1.86	0.57
1:L:71:LEU:HG	1:L:304:VAL:O	2.05	0.57
1:L:563:VAL:HG12	1:L:564:PRO:HD2	1.84	0.57
1:M:840:GLN:NE2	4:f:58:ALA:CA	2.67	0.57
1:M:915:ASP:O	1:M:919:ASN:HB2	2.03	0.57
1:N:90:MET:O	3:V:282:PRO:HG2	2.04	0.57
1:P:502:GLN:OE1	1:P:959:PRO:HD3	2.04	0.57
1:P:867:PRO:HB3	4:p:80:ALA:CB	2.19	0.57
1:P:1134:GLY:HA3	1:P:1263:LEU:HA	1.87	0.57
1:P:1265:GLY:HA2	1:P:1312:LYS:NZ	2.18	0.57
2:T:33:PHE:CE2	2:T:72:PRO:HB3	2.40	0.57
2:U:93:THR:HA	2:U:316:ARG:HH21	1.70	0.57
3:V:140:LEU:O	3:V:142:HIS:N	2.32	0.57
3:Y:300:LEU:HG	3:Y:332:SER:HB3	1.84	0.57
3:b:317:ARG:O	3:b:323:GLU:HA	2.04	0.57
2:c:267:ARG:HB3	2:c:270:PRO:HD2	1.86	0.57
4:i:71:ASN:H	4:i:74:ALA:HB3	1.69	0.57
4:i:90:PRO:CB	4:i:105:ASP:O	2.52	0.57
4:k:46:THR:CG2	4:k:50:VAL:HG12	2.30	0.57
4:n:35:ILE:C	4:n:36:MET:SD	2.87	0.57
4:o:5:GLN:NE2	4:o:42:HIS:O	2.35	0.57
4:q:50:VAL:HG13	4:q:50:VAL:O	2.03	0.57
1:G:117:HIS:CG	1:B:36:PHE:HE2	2.23	0.57
1:G:127:ARG:HB2	1:G:1097:ARG:HG3	1.87	0.57
1:G:580:GLY:HA2	1:G:592:ARG:NH1	2.19	0.57
1:G:1321:VAL:HG12	1:G:1323:ASP:H	1.69	0.57
1:B:77:VAL:HB	1:B:266:HIS:ND1	2.19	0.57
1:F:445:LYS:HD2	1:F:1118:PRO:HB2	1.86	0.57
1:F:873:ASN:HD21	4:g:92:PHE:CB	2.18	0.57
1:F:1054:ARG:NH1	1:F:1123:GLY:N	2.52	0.57
1:H:106:ARG:NH2	1:I:390:VAL:HG22	2.19	0.57
1:H:141:ALA:C	1:H:146:GLU:OE1	2.45	0.57
1:H:293:LEU:CD1	1:H:370:ILE:CD1	2.80	0.57
1:H:833:ASP:OD1	1:H:834:ARG:N	2.37	0.57
1:H:837:ALA:HB2	4:m:54:LEU:HD21	1.82	0.57
1:H:1125:LEU:HD12	1:H:1126:PRO:HD2	1.86	0.57
1:I:1229:HIS:CD2	1:I:1241:THR:HG23	2.40	0.57
1:J:70:PHE:HD2	1:J:306:TYR:OH	1.87	0.57
1:J:812:TYR:HA	1:J:816:LEU:HB3	1.86	0.57
1:K:842:MET:HE1	1:K:894:LEU:HD23	1.85	0.57
1:K:1270:LEU:HD22	1:K:1303:ALA:HB2	1.85	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:836:TYR:O	1:L:840:GLN:HG2	2.03	0.57
1:M:224:LYS:NZ	1:M:1214:TYR:OH	2.27	0.57
1:M:628:TYR:HB3	1:M:955:PHE:CZ	2.40	0.57
1:M:1241:THR:HG22	1:M:1247:SER:OG	2.02	0.57
1:N:724:HIS:CE1	1:N:1028:TYR:HB2	2.39	0.57
1:N:758:ALA:O	1:N:779:ASN:HA	2.05	0.57
1:N:1165:VAL:HG12	3:V:140:LEU:CD2	2.35	0.57
1:O:295:VAL:O	1:O:368:VAL:HA	2.05	0.57
1:O:296:GLU:HA	1:O:368:VAL:HG12	1.84	0.57
1:O:544:HIS:HE1	1:O:1252:TYR:CD1	2.19	0.57
1:O:546:ALA:HA	1:O:1031:MET:SD	2.44	0.57
1:O:696:HIS:HE1	1:O:1021:THR:HG21	1.70	0.57
1:P:191:LYS:O	1:P:192:ALA:HB2	2.04	0.57
1:P:1155:ASN:HB2	1:P:1158:GLY:CA	2.35	0.57
2:X:93:THR:HA	2:X:316:ARG:HH21	1.70	0.57
3:Y:250:GLY:HA3	3:Y:271:GLN:HE22	1.69	0.57
3:Y:437:HIS:O	3:Y:449:VAL:CB	2.53	0.57
2:a:74:VAL:HG21	2:a:100:LEU:CD1	2.32	0.57
3:e:119:LEU:CD2	3:e:189:PHE:CE2	2.87	0.57
3:e:134:LEU:HD12	3:e:244:VAL:HG12	1.87	0.57
1:G:232:PHE:C	1:G:1113:ALA:O	2.48	0.57
1:G:1295:GLU:CA	1:G:1298:SER:OG	2.53	0.57
1:A:297:ASP:O	1:A:298:THR:OG1	2.20	0.57
1:A:407:GLY:HA2	1:A:437:PRO:O	2.04	0.57
1:A:828:ALA:HA	1:A:957:VAL:O	2.05	0.57
1:B:790:ARG:NH1	4:h:103:VAL:O	2.38	0.57
1:B:842:MET:H	4:h:22:MET:CE	2.15	0.57
1:C:982:ASP:OD1	1:C:985:ARG:CZ	2.53	0.57
1:C:1161:GLN:NE2	1:C:1170:GLN:OE1	2.37	0.57
1:E:696:HIS:HE1	1:E:1021:THR:HG21	1.68	0.57
1:E:1369:LEU:HD13	1:E:1372:LEU:HD12	1.87	0.57
1:I:27:ILE:CG2	1:I:32:HIS:ND1	2.67	0.57
1:I:286:GLN:HA	1:I:289:LEU:HD23	1.86	0.57
1:I:300:ALA:HA	1:I:364:ARG:HA	1.86	0.57
1:I:681:ASP:O	1:I:682:LEU:HD12	2.05	0.57
1:J:233:PHE:O	1:J:234:LEU:CB	2.53	0.57
1:J:357:ALA:O	1:J:358:PRO:O	2.22	0.57
1:J:933:LEU:HD21	1:J:958:LEU:HD23	1.87	0.57
1:J:1229:HIS:HD2	1:J:1241:THR:CG2	2.17	0.57
1:K:883:ARG:HE	1:L:681:ASP:HB3	1.70	0.57
1:L:96:GLN:O	1:L:120:MET:O	2.22	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:124:ILE:HG12	1:L:1100:VAL:CG2	2.33	0.57
1:N:804:ASP:O	1:N:808:HIS:ND1	2.18	0.57
1:N:1229:HIS:NE2	1:N:1241:THR:HG23	2.19	0.57
1:N:1300:VAL:CG2	1:N:1318:ARG:NH2	2.68	0.57
1:P:558:LEU:HD11	1:P:999:PHE:CE2	2.40	0.57
2:R:68:ARG:HH22	2:R:288:ILE:C	2.12	0.57
2:R:129:ARG:HH11	2:R:136:THR:HG21	1.69	0.57
3:V:198:TYR:OH	3:V:294:VAL:HG11	2.05	0.57
2:W:33:PHE:CE2	2:W:72:PRO:HB3	2.39	0.57
3:Y:106:PRO:C	3:Y:107:ARG:HG2	2.29	0.57
2:c:155:LEU:HD11	2:c:188:LEU:HD11	1.87	0.57
2:d:68:ARG:HH22	2:d:288:ILE:C	2.12	0.57
4:f:71:ASN:H	4:f:74:ALA:HB3	1.69	0.57
4:r:5:GLN:NE2	4:r:42:HIS:O	2.35	0.57
4:s:32:ALA:O	4:t:99:SER:CB	2.52	0.57
4:t:50:VAL:HG13	4:t:50:VAL:O	2.03	0.57
1:G:408:LEU:HD22	1:G:1194:THR:H	1.69	0.57
1:A:359:GLN:O	1:A:360:THR:HG23	2.04	0.57
1:A:397:ALA:HA	1:A:1058:PHE:O	2.04	0.57
1:B:1013:SER:OG	1:B:1020:LEU:HD22	2.05	0.57
1:B:1315:PRO:O	3:S:260:LEU:CG	2.53	0.57
1:C:84:PHE:HB2	1:C:309:MET:HE3	1.85	0.57
1:C:267:ALA:CB	1:C:274:VAL:CA	2.83	0.57
1:C:527:THR:O	1:C:528:ALA:HB3	2.03	0.57
1:D:97:PHE:CE1	1:D:122:LYS:HD3	2.40	0.57
1:D:681:ASP:O	1:D:682:LEU:HD12	2.04	0.57
1:D:1223:ILE:HG22	1:D:1223:ILE:O	2.04	0.57
1:E:68:VAL:HG21	1:E:384:ILE:HG22	1.87	0.57
1:E:1058:PHE:CE1	1:E:1122:MET:CE	2.88	0.57
1:F:897:LEU:O	1:F:901:MET:HE2	2.05	0.57
1:H:264:LEU:HD23	1:H:266:HIS:CB	2.35	0.57
1:H:1197:ASN:C	1:H:1199:PHE:N	2.62	0.57
1:I:445:LYS:HB2	1:I:1121:ASP:HA	1.87	0.57
1:I:830:VAL:HG22	1:I:955:PHE:HE1	1.70	0.57
1:I:1073:TYR:HE2	1:I:1097:ARG:NH1	2.03	0.57
1:I:1106:TYR:O	1:I:1107:THR:HB	2.05	0.57
1:J:438:ARG:HH21	1:J:438:ARG:CB	2.16	0.57
1:J:700:LEU:O	1:J:1025:MET:HE2	2.04	0.57
1:K:780:ASP:OD1	1:K:782:ARG:HG3	2.05	0.57
1:K:1199:PHE:O	1:K:1200:ARG:HB2	2.05	0.57
1:K:1277:PHE:O	1:K:1278:THR:CB	2.53	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:737:TRP:CZ3	1:L:935:ALA:HB1	2.40	0.57
1:L:739:CYS:O	1:L:743:MET:HG2	2.05	0.57
1:O:294:LYS:O	1:O:296:GLU:N	2.35	0.57
3:S:109:HIS:ND1	3:S:267:CYS:CB	2.62	0.57
3:S:134:LEU:CD1	3:S:244:VAL:HG12	2.30	0.57
3:S:159:GLU:O	3:S:163:GLN:HG2	2.05	0.57
2:T:93:THR:HB	2:T:317:TYR:HB3	1.87	0.57
2:T:317:TYR:CD1	2:T:318:PRO:HD2	2.40	0.57
2:W:156:VAL:HG13	2:X:275:LEU:HD13	1.86	0.57
3:Y:272:GLU:O	3:Y:276:THR:CG2	2.53	0.57
2:a:92:LEU:CD2	2:a:98:VAL:H	2.18	0.57
2:c:126:THR:HG23	2:c:126:THR:O	2.03	0.57
2:c:295:VAL:HG12	2:c:314:VAL:HG13	1.85	0.57
2:d:92:LEU:O	2:d:94:HIS:HD2	1.87	0.57
3:e:127:ALA:HB3	3:e:286:VAL:HA	1.87	0.57
4:f:5:GLN:NE2	4:f:42:HIS:O	2.35	0.57
4:r:71:ASN:H	4:r:74:ALA:HB3	1.69	0.57
1:G:153:ILE:O	1:G:157:ARG:HD3	2.04	0.57
1:G:536:ASN:C	1:G:538:ASN:N	2.58	0.57
1:G:822:ARG:NE	1:G:1020:LEU:HD21	2.19	0.57
1:G:1202:PRO:HA	1:G:1333:PRO:CD	2.32	0.57
1:A:112:VAL:CG1	1:B:132:ALA:CA	2.83	0.57
1:B:191:LYS:HD2	1:B:1071:GLU:OE2	2.05	0.57
1:B:399:ASP:OD2	1:B:1055:GLN:NE2	2.38	0.57
1:D:1131:LEU:HD23	1:D:1159:PRO:HG3	1.85	0.57
1:E:407:GLY:HA2	1:E:437:PRO:O	2.04	0.57
1:E:626:VAL:HG11	1:E:879:PHE:HA	1.87	0.57
1:E:1197:ASN:HA	1:E:1200:ARG:CG	2.28	0.57
1:F:77:VAL:O	1:F:77:VAL:HG22	2.05	0.57
1:F:730:ALA:HB2	1:F:750:ARG:NH1	2.19	0.57
1:F:903:GLU:HG2	1:F:904:ARG:HG2	1.86	0.57
1:H:1221:ASP:O	1:H:1225:LEU:N	2.31	0.57
1:H:1317:CYS:O	1:H:1318:ARG:HG3	2.05	0.57
1:I:529:GLU:HG2	1:I:532:MET:HE1	1.87	0.57
1:I:550:PHE:HE2	1:I:574:THR:HG22	1.69	0.57
1:J:618:PHE:HA	1:J:940:MET:HB3	1.86	0.57
1:J:1115:VAL:CG1	1:J:1374:LEU:CD2	2.79	0.57
1:L:202:GLN:NE2	1:L:205:LEU:CD2	2.68	0.57
1:M:1166:PHE:HE1	2:c:284:GLN:HE21	1.51	0.57
1:O:580:GLY:O	1:O:1006:VAL:HG23	2.05	0.57
1:O:759:GLY:HA3	1:O:781:GLY:H	0.72	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:776:PHE:CD2	1:O:833:ASP:HB3	2.40	0.57
1:P:915:ASP:OD1	1:P:915:ASP:N	2.37	0.57
2:Q:16:ILE:CG2	2:Q:133:LEU:HD23	2.34	0.57
3:V:311:TYR:HA	3:V:424:GLU:HA	1.85	0.57
2:W:16:ILE:CG2	2:W:133:LEU:HD23	2.34	0.57
2:W:295:VAL:HG12	2:W:314:VAL:HG13	1.85	0.57
3:b:197:ALA:HB3	3:b:324:LEU:HD13	1.86	0.57
3:b:254:TRP:CE3	3:b:254:TRP:N	2.73	0.57
2:d:161:ARG:HH12	2:d:174:PRO:CG	2.08	0.57
4:g:46:THR:OG1	4:g:50:VAL:CG1	2.49	0.57
4:l:71:ASN:H	4:l:74:ALA:HB3	1.69	0.57
4:o:20:LEU:CD1	4:o:23:ARG:O	2.53	0.57
4:o:71:ASN:H	4:o:74:ALA:HB3	1.69	0.57
4:r:46:THR:CG2	4:r:50:VAL:HG12	2.30	0.57
4:r:77:PRO:CD	4:r:80:ALA:HB2	2.29	0.57
4:s:71:ASN:H	4:s:74:ALA:HB3	1.69	0.57
1:G:84:PHE:O	1:G:86:GLU:N	2.33	0.56
1:G:242:GLU:N	1:G:245:GLU:OE1	2.34	0.56
1:G:295:VAL:CB	1:G:368:VAL:HA	2.33	0.56
1:G:414:GLU:HA	1:G:416:PHE:HD1	1.70	0.56
1:G:1227:TYR:CE2	1:G:1249:ARG:NH2	2.73	0.56
1:A:295:VAL:HG11	1:A:369:ALA:H	1.68	0.56
1:B:596:GLY:HA3	1:B:1023:ALA:HB2	1.87	0.56
1:B:615:ARG:NH1	1:B:1017:GLU:OE2	2.38	0.56
1:B:726:MET:HE3	1:B:815:VAL:HG23	1.86	0.56
1:C:1229:HIS:O	1:C:1230:GLY:C	2.47	0.56
1:D:81:CYS:HB3	1:D:306:TYR:CD1	2.40	0.56
1:D:1220:GLY:O	1:D:1224:ALA:HB3	2.05	0.56
1:E:198:LEU:HD22	1:E:254:ALA:HB1	1.86	0.56
1:E:201:MET:HG3	1:E:205:LEU:HD21	1.86	0.56
1:E:236:LYS:NZ	1:E:1370:LYS:O	2.38	0.56
1:F:764:VAL:HB	1:F:782:ARG:HD3	1.87	0.56
1:I:525:GLN:OE1	1:I:536:ASN:HB3	2.05	0.56
1:I:874:THR:HG22	1:I:877:ALA:HB2	1.86	0.56
1:J:71:LEU:C	1:J:76:SER:OG	2.48	0.56
1:K:191:LYS:O	1:K:192:ALA:HB2	2.05	0.56
1:L:867:PRO:HG2	4:f:78:MET:O	2.04	0.56
1:L:1158:GLY:O	1:L:1172:PRO:HD3	2.05	0.56
1:M:87:LEU:CD2	1:M:1076:GLY:HA2	2.35	0.56
1:M:867:PRO:HG3	4:r:78:MET:O	2.05	0.56
1:M:1241:THR:CG2	1:M:1247:SER:HG	2.14	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:1118:PRO:O	1:N:1119:VAL:HB	2.04	0.56
1:O:429:HIS:N	1:O:429:HIS:CD2	2.72	0.56
1:O:759:GLY:CA	1:O:781:GLY:HA2	2.23	0.56
1:O:920:THR:CG2	1:O:1138:LEU:HD23	2.35	0.56
2:Q:93:THR:HB	2:Q:317:TYR:HB3	1.86	0.56
3:S:127:ALA:HB3	3:S:286:VAL:HA	1.87	0.56
2:T:180:TYR:HE2	2:T:185:ARG:CB	2.17	0.56
3:V:272:GLU:O	3:V:276:THR:CG2	2.53	0.56
2:W:100:LEU:O	2:W:311:MET:SD	2.62	0.56
2:W:182:ASN:HB2	3:Y:136:HIS:CE1	2.40	0.56
2:W:296:ARG:CG	2:W:318:PRO:CA	2.75	0.56
2:X:5:CYS:O	2:X:6:PHE:C	2.46	0.56
2:X:47:ALA:HB3	2:X:135:LEU:HD22	1.85	0.56
2:X:92:LEU:O	2:X:94:HIS:HD2	1.87	0.56
3:Y:254:TRP:CE3	3:Y:254:TRP:N	2.73	0.56
2:a:37:ILE:HD12	2:a:90:LEU:HD21	1.85	0.56
3:b:272:GLU:O	3:b:276:THR:CG2	2.53	0.56
4:f:50:VAL:HG13	4:f:50:VAL:O	2.03	0.56
4:g:71:ASN:H	4:g:74:ALA:HB3	1.69	0.56
4:i:35:ILE:C	4:i:36:MET:SD	2.87	0.56
1:G:533:GLN:HA	1:G:1240:ALA:HB2	1.87	0.56
1:G:769:CYS:SG	1:G:774:ALA:HB2	2.45	0.56
1:A:77:VAL:HG22	1:A:376:PHE:CE2	2.39	0.56
1:A:264:LEU:CD1	1:A:264:LEU:N	2.62	0.56
1:A:417:ALA:HB2	1:A:1358:PHE:CZ	2.40	0.56
1:C:298:THR:HB	1:C:366:ASP:HA	1.85	0.56
1:C:509:TRP:N	1:C:509:TRP:CD1	2.73	0.56
1:C:722:LEU:O	1:C:1035:ALA:CB	2.54	0.56
1:D:408:LEU:HB3	1:D:1196:ILE:HD11	1.87	0.56
1:D:1080:VAL:HG12	1:D:1081:ALA:N	2.19	0.56
1:D:1248:GLN:C	1:D:1251:SER:OG	2.46	0.56
1:E:487:TYR:HD2	1:E:520:TRP:CZ2	2.24	0.56
1:E:1229:HIS:CD2	1:E:1241:THR:CG2	2.87	0.56
1:F:258:SER:OG	1:F:1069:ALA:O	2.24	0.56
1:F:591:PHE:CZ	1:F:1045:HIS:CD2	2.92	0.56
1:I:1303:ALA:O	1:I:1319:GLU:OE1	2.23	0.56
1:J:75:LEU:CD1	1:J:277:VAL:HG21	2.33	0.56
1:J:268:ASP:H	1:J:301:ASP:HB2	1.67	0.56
1:J:277:VAL:O	1:J:277:VAL:HG23	2.04	0.56
1:J:645:ALA:O	1:J:649:THR:N	2.27	0.56
1:J:742:LEU:HD12	1:J:908:LEU:HD21	1.86	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:301:ASP:C	1:K:303:PRO:HD3	2.31	0.56
1:K:429:HIS:N	1:K:429:HIS:CD2	2.72	0.56
1:L:140:ILE:O	1:L:141:ALA:HB3	2.05	0.56
1:L:642:CYS:O	4:q:87:TRP:CB	2.53	0.56
1:L:643:ALA:HB1	1:L:896:VAL:HG21	1.87	0.56
1:L:847:ILE:CG2	4:q:71:ASN:CA	2.81	0.56
1:L:1301:SER:OG	1:L:1319:GLU:CB	2.53	0.56
1:N:189:LEU:HD12	1:N:189:LEU:N	2.19	0.56
1:N:520:TRP:CE3	1:N:520:TRP:O	2.58	0.56
1:O:196:ALA:HB1	1:O:227:PHE:HA	1.86	0.56
1:O:759:GLY:HA2	1:O:781:GLY:N	2.04	0.56
1:P:257:PRO:HA	1:P:1067:GLU:HG2	1.87	0.56
2:Q:317:TYR:CD1	2:Q:318:PRO:HD2	2.40	0.56
2:R:16:ILE:O	2:R:132:SER:CB	2.52	0.56
3:S:272:GLU:O	3:S:276:THR:CG2	2.53	0.56
2:T:295:VAL:HG12	2:T:314:VAL:HG13	1.85	0.56
2:U:47:ALA:HB3	2:U:135:LEU:HD22	1.85	0.56
3:V:274:THR:OG1	3:V:275:HIS:N	2.39	0.56
3:Y:292:ALA:HB1	3:Y:295:ASP:N	2.19	0.56
2:Z:33:PHE:CB	2:Z:70:ARG:CD	2.73	0.56
2:a:29:GLY:C	2:a:101:ARG:CB	2.78	0.56
2:c:93:THR:HB	2:c:317:TYR:HB3	1.87	0.56
4:j:20:LEU:HD23	4:j:21:GLY:H	1.69	0.56
4:m:71:ASN:H	4:m:74:ALA:HB3	1.70	0.56
4:n:5:GLN:NE2	4:n:42:HIS:O	2.35	0.56
4:n:46:THR:OG1	4:n:50:VAL:CG1	2.49	0.56
4:q:35:ILE:C	4:q:36:MET:SD	2.87	0.56
1:G:201:MET:CE	1:G:223:LEU:HD11	2.35	0.56
1:G:579:ASN:HA	1:G:1031:MET:HE3	1.87	0.56
1:G:631:GLN:NE2	1:G:667:ASP:HB2	2.19	0.56
1:G:917:GLY:O	1:G:1138:LEU:HD21	2.00	0.56
1:G:1276:PHE:O	1:G:1277:PHE:CG	2.58	0.56
1:A:181:ALA:HB3	1:A:384:ILE:HD13	1.87	0.56
1:A:676:THR:CG2	1:F:946:ASP:HB3	2.34	0.56
1:A:873:ASN:HD21	4:h:92:PHE:CB	2.19	0.56
1:A:1237:PRO:O	1:B:1156:ARG:NH2	2.39	0.56
1:B:1056:ASP:HA	1:B:1120:THR:HG21	1.87	0.56
1:B:1321:VAL:HG22	1:B:1322:GLU:H	1.71	0.56
1:C:257:PRO:O	1:M:25:SER:HB3	2.05	0.56
1:C:700:LEU:O	1:C:1025:MET:HE2	2.06	0.56
1:D:269:THR:O	1:D:270:ARG:CB	2.53	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:408:LEU:HD12	1:D:1196:ILE:HD13	1.87	0.56
1:D:443:TRP:HH2	1:D:1347:ARG:HB3	1.69	0.56
1:D:1113:ALA:C	1:D:1114:THR:HG23	2.30	0.56
1:E:235:GLY:HA3	1:E:1114:THR:HG22	1.87	0.56
1:E:302:VAL:HA	1:E:361:THR:O	2.05	0.56
1:E:445:LYS:O	1:E:446:ASP:CB	2.53	0.56
1:E:527:THR:HG21	1:E:1193:ALA:CB	2.36	0.56
1:F:521:VAL:C	1:F:523:GLU:N	2.61	0.56
1:F:776:PHE:HD1	1:F:903:GLU:HA	1.70	0.56
1:F:1208:ARG:NH2	1:F:1240:ALA:O	2.37	0.56
1:F:1301:SER:OG	1:F:1319:GLU:HG2	2.06	0.56
1:H:77:VAL:HG12	1:H:277:VAL:HG22	1.87	0.56
1:H:635:HIS:CE1	1:H:640:VAL:HG21	2.41	0.56
1:H:915:ASP:OD1	1:H:918:ALA:CB	2.47	0.56
1:I:84:PHE:HE1	1:I:309:MET:HE2	1.69	0.56
1:I:400:LEU:CD2	1:I:1324:PRO:HG3	2.35	0.56
1:I:834:ARG:O	4:o:94:LEU:CA	2.53	0.56
1:I:836:TYR:CD1	1:I:897:LEU:HD13	2.40	0.56
1:J:96:GLN:HB2	1:J:121:THR:HG22	1.87	0.56
1:J:240:ARG:HB3	1:J:243:ALA:HB3	1.86	0.56
1:J:432:PRO:C	1:J:434:ALA:H	2.13	0.56
1:J:435:PHE:HB2	1:J:598:GLU:HB2	1.87	0.56
1:J:806:THR:O	1:J:810:LYS:N	2.31	0.56
1:J:914:PRO:HG2	1:J:919:ASN:CB	2.34	0.56
1:J:1265:GLY:O	1:J:1266:ALA:HB3	2.05	0.56
1:K:293:LEU:C	1:K:295:VAL:H	2.11	0.56
1:K:696:HIS:HE1	1:K:1021:THR:HG21	1.69	0.56
1:K:721:GLU:HB3	1:K:729:PRO:HD3	1.85	0.56
1:L:13:TYR:O	1:L:14:ALA:HB3	2.05	0.56
1:L:264:LEU:HD23	1:L:266:HIS:HD2	1.69	0.56
1:L:486:PRO:HG2	1:L:564:PRO:CG	2.30	0.56
1:M:296:GLU:HG3	1:M:366:ASP:OD1	2.05	0.56
1:M:755:ARG:HG3	1:M:761:HIS:CB	2.36	0.56
1:M:1201:ARG:NH1	1:N:448:GLN:CG	2.68	0.56
1:O:527:THR:O	1:O:528:ALA:HB3	2.05	0.56
1:O:543:LEU:HB3	1:O:1251:SER:HA	1.86	0.56
1:O:599:LEU:O	1:O:603:ARG:NH1	2.38	0.56
1:P:151:THR:CG2	1:P:154:SER:OG	2.53	0.56
1:P:327:ARG:O	1:P:328:SER:OG	2.23	0.56
1:P:827:THR:OG1	1:P:958:LEU:O	2.19	0.56
1:P:1281:ASP:OD1	1:P:1281:ASP:N	2.36	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:63:LEU:HB3	2:Q:67:TYR:CE1	2.41	0.56
2:R:159:GLY:CA	2:R:193:GLN:NE2	2.69	0.56
2:T:154:ARG:HD2	2:T:176:LEU:HB3	1.87	0.56
2:T:155:LEU:HD11	2:T:188:LEU:HD11	1.87	0.56
3:V:143:LEU:O	3:V:144:ALA:C	2.47	0.56
2:W:48:HIS:CD2	2:W:138:ARG:HD3	2.41	0.56
2:W:155:LEU:HD11	2:W:188:LEU:HD11	1.87	0.56
2:W:317:TYR:CD1	2:W:318:PRO:HD2	2.40	0.56
3:Y:351:ARG:CA	3:Y:351:ARG:NE	2.68	0.56
2:a:74:VAL:O	2:a:85:ALA:HB1	2.05	0.56
2:a:92:LEU:CD2	2:a:98:VAL:CG1	2.68	0.56
3:b:130:LEU:HD22	3:b:187:PHE:CE2	2.38	0.56
2:c:33:PHE:CE2	2:c:72:PRO:HB3	2.39	0.56
2:d:164:ASN:OD1	2:d:164:ASN:N	2.37	0.56
3:e:137:PRO:CB	3:e:138:THR:HA	2.33	0.56
3:e:272:GLU:O	3:e:276:THR:CG2	2.53	0.56
3:e:300:LEU:CD1	3:e:333:GLN:CD	2.62	0.56
4:h:71:ASN:H	4:h:74:ALA:HB3	1.69	0.56
4:k:1:MET:N	4:k:5:GLN:HB3	2.20	0.56
4:k:71:ASN:H	4:k:74:ALA:HB3	1.69	0.56
4:n:9:PRO:HB3	4:n:17:VAL:CB	2.34	0.56
4:p:1:MET:H2	4:p:5:GLN:HB3	1.69	0.56
4:p:46:THR:OG1	4:p:50:VAL:CG1	2.49	0.56
4:s:1:MET:N	4:s:5:GLN:HB3	2.21	0.56
4:s:19:ALA:O	4:s:20:LEU:CG	2.53	0.56
4:s:50:VAL:HG13	4:s:50:VAL:O	2.03	0.56
4:t:1:MET:N	4:t:5:GLN:HB3	2.21	0.56
1:G:310:VAL:HB	1:G:347:ASN:OD1	2.06	0.56
1:G:696:HIS:CE1	1:G:1021:THR:HG21	2.40	0.56
1:G:804:ASP:HB3	1:G:808:HIS:CE1	2.40	0.56
1:B:96:GLN:HA	1:B:121:THR:HA	1.86	0.56
1:C:114:GLN:NE2	1:M:43:ARG:CG	2.68	0.56
1:C:135:LEU:HD12	1:C:136:ALA:H	1.71	0.56
1:C:302:VAL:CG1	1:C:360:THR:CB	2.65	0.56
1:C:1202:PRO:O	1:C:1331:ALA:O	2.23	0.56
1:D:767:ALA:O	1:D:786:ASN:HB3	2.05	0.56
1:E:466:LEU:HG	1:E:467:MET:HE2	1.88	0.56
1:E:486:PRO:CG	1:E:564:PRO:HG3	2.35	0.56
1:E:487:TYR:OH	1:E:989:LEU:HA	2.05	0.56
1:E:520:TRP:CG	1:E:997:ASN:ND2	2.74	0.56
1:F:712:PRO:O	1:F:719:GLN:NE2	2.33	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:299:GLU:O	1:H:365:ALA:CB	2.47	0.56
1:I:944:HIS:CD2	1:I:945:LEU:N	2.73	0.56
1:I:1055:GLN:HB3	1:I:1310:GLN:HE22	1.71	0.56
1:J:454:MET:CE	1:J:1045:HIS:CE1	2.86	0.56
1:J:462:CYS:HB3	1:J:1037:TYR:OH	2.05	0.56
1:K:491:VAL:O	1:K:558:LEU:O	2.24	0.56
1:L:356:SER:O	1:L:357:ALA:HB3	2.05	0.56
1:L:816:LEU:O	1:L:819:ALA:O	2.24	0.56
1:M:732:LEU:HD21	1:M:745:HIS:HD2	1.70	0.56
1:M:1278:THR:O	1:M:1279:ALA:HB3	2.04	0.56
1:N:841:ASN:O	1:N:875:VAL:N	2.32	0.56
1:O:35:LEU:HD13	1:O:35:LEU:O	2.05	0.56
1:O:1202:PRO:O	1:O:1330:GLU:HB3	2.06	0.56
2:T:33:PHE:CB	2:T:70:ARG:CD	2.73	0.56
2:T:272:TYR:OH	2:U:164:ASN:OD1	2.23	0.56
3:V:254:TRP:CE3	3:V:254:TRP:N	2.73	0.56
2:W:63:LEU:HB3	2:W:67:TYR:CE1	2.41	0.56
2:X:13:PRO:CG	2:X:43:LEU:HD23	2.36	0.56
2:X:128:VAL:HG12	2:X:137:LEU:O	2.03	0.56
2:Z:97:THR:HA	2:Z:314:VAL:O	2.06	0.56
2:a:30:ARG:NH1	2:a:139:PHE:CD2	2.73	0.56
2:a:92:LEU:CD1	2:a:295:VAL:HG22	2.35	0.56
2:a:164:ASN:HB2	2:a:165:PRO:C	2.31	0.56
3:b:132:LEU:CG	3:b:187:PHE:HA	2.35	0.56
2:c:154:ARG:HD2	2:c:176:LEU:HB3	1.87	0.56
3:e:198:TYR:CE1	3:e:294:VAL:HG11	2.41	0.56
4:h:50:VAL:HG13	4:h:50:VAL:O	2.03	0.56
4:j:68:HIS:O	4:j:69:ALA:HB3	2.06	0.56
4:j:71:ASN:H	4:j:74:ALA:HB3	1.70	0.56
4:n:1:MET:N	4:n:5:GLN:HB3	2.21	0.56
4:r:103:VAL:O	4:r:106:PRO:HG3	2.05	0.56
4:t:106:PRO:CG	4:t:107:LYS:H	2.18	0.56
1:G:43:ARG:O	1:G:48:SER:HB3	2.06	0.56
1:G:279:VAL:HG12	1:G:394:LEU:HD11	1.87	0.56
1:G:544:HIS:CD2	1:G:546:ALA:H	2.22	0.56
1:A:742:LEU:HD22	1:A:765:TYR:OH	2.05	0.56
1:B:889:PRO:CD	4:h:69:ALA:CB	2.79	0.56
1:B:1073:TYR:H	1:B:1099:ASN:HA	1.70	0.56
1:B:1115:VAL:CG1	1:B:1374:LEU:HD21	2.35	0.56
1:C:656:TRP:CD2	1:C:686:CYS:HB3	2.41	0.56
1:C:1206:ARG:HB3	1:C:1277:PHE:CZ	2.40	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:320:LEU:HD12	1:D:321:VAL:HG23	1.88	0.56
1:D:1201:ARG:HH22	1:E:1179:HIS:HE1	1.52	0.56
1:D:1298:SER:O	1:D:1298:SER:OG	2.18	0.56
1:E:124:ILE:HD13	1:E:1100:VAL:HG21	1.82	0.56
1:E:445:LYS:HB3	1:E:1121:ASP:O	2.05	0.56
1:F:1241:THR:CG2	1:F:1247:SER:OG	2.53	0.56
1:H:454:MET:HE1	1:H:1046:PRO:CD	2.17	0.56
1:H:506:LEU:HD21	1:H:989:LEU:HD23	1.87	0.56
1:H:1181:GLN:NE2	1:H:1304:THR:O	2.26	0.56
1:I:407:GLY:HA2	1:I:437:PRO:O	2.06	0.56
1:I:751:HIS:O	1:I:752:ARG:NH2	2.39	0.56
1:I:839:LEU:O	1:I:875:VAL:HG21	2.05	0.56
1:J:206:ASP:OD1	1:J:207:ASN:N	2.39	0.56
1:J:272:ARG:HH22	1:J:369:ALA:HB2	1.70	0.56
1:J:611:ILE:HG23	1:J:820:PHE:HE1	1.70	0.56
1:J:1062:ASN:HA	1:J:1111:ALA:O	2.06	0.56
1:K:94:ARG:O	1:L:57:LEU:HD12	2.05	0.56
1:K:587:CYS:SG	1:K:591:PHE:CD2	2.98	0.56
1:K:968:ASP:O	1:K:972:ASN:ND2	2.38	0.56
1:K:1155:ASN:HB2	1:K:1158:GLY:H	1.69	0.56
1:L:1218:LYS:HZ3	2:d:184:ALA:HA	1.66	0.56
1:O:451:ARG:HG2	1:O:452:LEU:N	2.21	0.56
2:T:267:ARG:HB3	2:T:270:PRO:HD2	1.86	0.56
2:U:150:GLU:O	2:U:154:ARG:HG2	2.06	0.56
2:U:159:GLY:CA	2:U:193:GLN:NE2	2.69	0.56
2:X:159:GLY:CA	2:X:193:GLN:NE2	2.69	0.56
3:Y:351:ARG:HA	3:Y:351:ARG:NE	2.19	0.56
2:a:37:ILE:CD1	2:a:90:LEU:HD21	2.36	0.56
2:c:160:ILE:HD12	2:c:210:VAL:HG22	1.88	0.56
2:c:177:ASN:O	2:c:188:LEU:HB2	2.05	0.56
4:q:1:MET:N	4:q:5:GLN:HB3	2.20	0.56
4:q:71:ASN:H	4:q:74:ALA:HB3	1.69	0.56
1:G:452:LEU:HD23	1:G:456:ASN:ND2	2.20	0.56
1:G:536:ASN:O	1:G:538:ASN:N	2.38	0.56
1:G:843:VAL:H	1:G:876:ASN:ND2	2.04	0.56
1:A:1283:THR:O	1:A:1284:ALA:HB3	2.05	0.56
1:B:1215:ALA:CB	1:B:1222:VAL:HG22	2.35	0.56
1:E:43:ARG:O	1:H:114:GLN:HB3	2.06	0.56
1:E:730:ALA:HB2	1:E:750:ARG:NH1	2.19	0.56
1:F:74:GLY:O	1:F:77:VAL:HG12	2.04	0.56
1:H:458:VAL:O	1:H:462:CYS:HB2	2.05	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:69:ARG:NH1	3:Y:43:ARG:N	2.53	0.56
1:I:413:MET:O	1:J:433:ARG:NH1	2.39	0.56
1:I:429:HIS:CD2	1:I:429:HIS:H	2.24	0.56
1:I:957:VAL:HG12	1:I:959:PRO:HD3	1.88	0.56
1:J:732:LEU:HB3	1:J:745:HIS:NE2	2.20	0.56
1:J:743:MET:HE1	1:J:797:ASP:N	2.20	0.56
1:J:889:PRO:HD3	4:o:69:ALA:HB2	1.71	0.56
1:L:481:VAL:CG2	1:L:482:GLU:N	2.68	0.56
1:L:483:ALA:O	1:L:484:ALA:HB3	2.05	0.56
1:L:544:HIS:CD2	1:L:546:ALA:H	2.24	0.56
1:N:440:LEU:O	1:N:451:ARG:HG3	2.05	0.56
1:N:482:GLU:HA	1:N:569:GLY:H	1.70	0.56
1:P:301:ASP:N	1:P:301:ASP:OD1	2.35	0.56
1:P:318:THR:HG23	1:P:322:MET:SD	2.46	0.56
2:Q:155:LEU:HD11	2:Q:188:LEU:HD11	1.87	0.56
3:S:143:LEU:HD13	3:S:239:VAL:CG2	2.28	0.56
2:U:5:CYS:O	2:U:6:PHE:C	2.46	0.56
2:W:32:VAL:O	2:W:73:ALA:N	2.31	0.56
2:W:106:VAL:HG12	2:W:305:VAL:HG13	1.83	0.56
2:W:186:LEU:CD1	2:W:187:SER:N	2.65	0.56
3:Y:149:PRO:O	3:Y:152:ARG:HG3	2.06	0.56
3:b:132:LEU:HD21	3:b:187:PHE:HD1	1.70	0.56
3:b:274:THR:OG1	3:b:275:HIS:N	2.39	0.56
2:d:5:CYS:O	2:d:6:PHE:C	2.47	0.56
4:f:68:HIS:O	4:f:69:ALA:HB3	2.06	0.56
4:h:1:MET:N	4:h:5:GLN:HB3	2.21	0.56
4:i:68:HIS:O	4:i:69:ALA:HB3	2.06	0.56
1:G:129:LEU:HD23	1:G:1097:ARG:CZ	2.35	0.56
1:G:959:PRO:HG2	1:G:990:VAL:HG22	1.87	0.56
1:A:58:LEU:HG	1:F:309:MET:HE1	1.86	0.56
1:A:227:PHE:CE2	1:A:1324:PRO:HG2	2.40	0.56
1:C:458:VAL:HG23	1:C:462:CYS:SG	2.45	0.56
1:D:134:SER:N	1:M:44:SER:HB3	2.21	0.56
1:D:445:LYS:HB2	1:D:1122:MET:SD	2.46	0.56
1:D:744:ARG:NH1	1:D:803:ALA:HA	2.21	0.56
1:E:36:PHE:HE1	1:H:122:LYS:HZ2	1.40	0.56
1:E:429:HIS:CD2	1:E:429:HIS:N	2.73	0.56
1:E:892:LEU:CD1	4:k:65:GLY:HA2	2.35	0.56
1:E:1013:SER:OG	1:E:1020:LEU:HD22	2.05	0.56
1:F:385:TYR:CD2	1:F:392:TYR:HD1	2.23	0.56
1:F:530:GLN:C	1:F:536:ASN:ND2	2.64	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:447:HIS:O	1:H:448:GLN:C	2.45	0.56
1:H:759:GLY:HA2	1:H:779:ASN:O	1.98	0.56
1:I:16:ALA:C	1:I:18:VAL:N	2.62	0.56
1:I:69:ARG:HH12	3:Y:43:ARG:N	2.02	0.56
1:I:534:PRO:CG	1:I:535:ASP:N	2.68	0.56
1:I:915:ASP:OD1	1:I:918:ALA:CB	2.51	0.56
1:J:75:LEU:HD12	1:J:277:VAL:CG2	2.36	0.56
1:J:381:GLU:OE2	1:J:392:TYR:CE2	2.59	0.56
1:J:668:TYR:HD2	1:J:809:HIS:CE1	2.23	0.56
1:J:778:ARG:HH22	1:J:782:ARG:CG	2.19	0.56
1:J:1263:LEU:HD12	1:J:1263:LEU:O	2.06	0.56
1:K:13:TYR:O	1:K:14:ALA:HB3	2.05	0.56
1:K:155:LEU:O	1:K:155:LEU:HD13	2.06	0.56
1:K:533:GLN:N	1:K:534:PRO:CD	2.69	0.56
1:K:1196:ILE:O	1:K:1197:ASN:CB	2.48	0.56
1:L:467:MET:O	1:L:922:SER:OG	2.23	0.56
1:L:558:LEU:HD21	1:L:999:PHE:CE1	2.41	0.56
1:M:707:PHE:HA	1:M:1042:THR:HG21	1.87	0.56
1:N:205:LEU:HG	1:N:1290:GLU:OE2	2.05	0.56
1:N:847:ILE:HG23	4:r:71:ASN:HA	1.87	0.56
1:N:1315:PRO:HB3	3:V:116:LEU:HD11	1.88	0.56
1:O:198:LEU:HD12	1:O:1109:VAL:HG23	1.87	0.56
1:P:867:PRO:CB	4:p:80:ALA:HB3	2.18	0.56
3:S:438:ARG:C	3:S:447:VAL:O	2.48	0.56
3:V:292:ALA:C	3:V:294:VAL:H	2.04	0.56
2:W:156:VAL:CG1	2:X:275:LEU:HD13	2.35	0.56
2:W:267:ARG:HB3	2:W:270:PRO:HD2	1.86	0.56
3:Y:435:CYS:HB2	3:Y:451:ILE:HB	1.87	0.56
2:Z:219:LEU:HD23	2:Z:220:ILE:CA	2.35	0.56
2:a:92:LEU:H	2:a:92:LEU:HD12	1.70	0.56
3:b:301:CYS:SG	3:b:302:LEU:CD2	2.94	0.56
4:f:1:MET:N	4:f:5:GLN:HB3	2.21	0.56
4:k:46:THR:CG2	4:k:50:VAL:HG11	2.18	0.56
4:l:23:ARG:C	4:l:25:LEU:N	2.59	0.56
4:o:68:HIS:O	4:o:69:ALA:HB3	2.06	0.56
4:p:1:MET:N	4:p:5:GLN:HB3	2.21	0.56
4:q:46:THR:CG2	4:q:50:VAL:HG12	2.30	0.56
1:G:327:ARG:O	1:G:327:ARG:HG3	2.05	0.56
1:G:460:THR:HG23	1:G:1129:PHE:HE2	1.71	0.56
1:G:830:VAL:CG1	1:G:954:TYR:O	2.29	0.56
1:G:1067:GLU:HG2	1:G:1107:THR:CG2	2.36	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1165:VAL:HG21	2:R:240:LEU:C	2.22	0.56
1:A:778:ARG:O	1:A:904:ARG:NE	2.39	0.56
1:C:256:GLN:CG	1:M:25:SER:HB2	2.36	0.56
1:C:730:ALA:HB2	1:C:750:ARG:NH1	2.20	0.56
1:C:864:PRO:HG3	1:C:888:GLY:HA2	1.88	0.56
1:E:9:PRO:HG3	1:H:94:ARG:CZ	2.34	0.56
1:E:591:PHE:CZ	1:E:1045:HIS:HD2	2.13	0.56
1:E:840:GLN:NE2	4:k:58:ALA:CA	2.68	0.56
1:E:840:GLN:OE1	4:k:58:ALA:CB	2.53	0.56
1:F:77:VAL:HB	1:F:266:HIS:CG	2.41	0.56
1:H:264:LEU:HD21	1:H:266:HIS:HB3	1.86	0.56
1:H:266:HIS:CE1	1:H:376:PHE:CE2	2.94	0.56
1:H:267:ALA:HB1	1:H:273:PRO:C	2.30	0.56
1:I:380:LEU:HD13	1:I:384:ILE:CG1	2.36	0.56
1:I:1332:TYR:HB3	1:I:1366:ALA:O	2.06	0.56
1:J:1059:VAL:HG23	1:J:1119:VAL:HG23	1.87	0.56
1:K:54:PHE:O	1:P:91:ASN:N	2.39	0.56
1:K:293:LEU:HD12	1:K:293:LEU:O	2.05	0.56
1:K:841:ASN:OD1	4:p:57:GLN:NE2	2.39	0.56
1:K:1288:CYS:O	1:K:1292:LEU:HG	2.06	0.56
1:L:227:PHE:HZ	1:L:398:MET:HE1	1.71	0.56
1:L:1080:VAL:HG22	1:L:1093:LEU:HD23	1.86	0.56
1:M:1008:GLN:HE22	1:M:1011:ARG:HH11	1.53	0.56
1:O:616:GLY:O	1:P:691:ARG:NH2	2.39	0.56
1:O:752:ARG:CG	1:O:927:ARG:NE	2.69	0.56
1:P:293:LEU:O	1:P:295:VAL:N	2.38	0.56
1:P:295:VAL:O	1:P:295:VAL:HG12	2.05	0.56
2:R:14:SER:C	2:R:133:LEU:HD11	2.30	0.56
2:R:108:LEU:O	2:R:112:ASP:CG	2.45	0.56
2:R:150:GLU:O	2:R:154:ARG:HG2	2.06	0.56
3:S:300:LEU:HD11	3:S:332:SER:CB	2.24	0.56
3:S:331:LYS:HZ3	3:S:434:ARG:HD2	1.68	0.56
2:W:189:VAL:HG13	2:W:195:LEU:HD11	1.88	0.56
3:Y:127:ALA:HB3	3:Y:286:VAL:HA	1.87	0.56
3:Y:210:HIS:HA	3:Y:445:VAL:HG21	1.86	0.56
3:Y:285:ALA:O	3:Y:286:VAL:CG2	2.53	0.56
2:a:236:TYR:O	2:a:237:VAL:HB	2.06	0.56
2:c:227:LEU:HD11	2:c:228:LEU:CD1	2.11	0.56
2:d:93:THR:HA	2:d:316:ARG:HH21	1.70	0.56
3:e:137:PRO:HD2	3:e:138:THR:CB	2.36	0.56
3:e:317:ARG:CB	3:e:324:LEU:N	2.64	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:g:1:MET:N	4:g:5:GLN:HB3	2.21	0.56
4:g:32:ALA:O	4:h:99:SER:CB	2.54	0.56
4:g:68:HIS:O	4:g:69:ALA:HB3	2.06	0.56
4:l:3:ALA:HB2	4:l:38:ASN:O	1.97	0.56
4:m:46:THR:OG1	4:m:50:VAL:CG1	2.49	0.56
4:p:46:THR:CG2	4:p:50:VAL:HG12	2.30	0.56
4:r:3:ALA:HB2	4:r:38:ASN:O	1.97	0.56
1:G:153:ILE:HG22	1:G:157:ARG:CG	2.36	0.56
1:G:556:VAL:HG11	1:G:565:PRO:CG	2.34	0.56
1:G:1289:LEU:HD13	1:G:1292:LEU:HD12	1.88	0.56
1:A:269:THR:HG22	1:A:362:ARG:NH1	2.21	0.56
1:B:1166:PHE:CE2	3:S:141:PRO:HG2	2.41	0.56
1:C:44:SER:O	1:C:45:ASP:HB3	2.05	0.56
1:C:349:GLU:OE1	1:M:17:MET:HA	2.06	0.56
1:D:29:VAL:HG21	1:L:99:VAL:HG11	1.87	0.56
1:D:265:THR:O	1:D:266:HIS:C	2.48	0.56
1:D:804:ASP:HB3	1:D:808:HIS:HE1	1.70	0.56
1:F:842:MET:CE	4:l:61:LEU:CD1	2.84	0.56
1:F:1276:PHE:CD1	1:F:1329:GLN:NE2	2.69	0.56
1:J:892:LEU:CD1	4:o:65:GLY:HA2	2.35	0.56
1:L:145:GLY:HA2	1:L:148:LEU:HD13	1.86	0.56
1:L:626:VAL:HG13	1:L:878:MET:HG3	1.88	0.56
1:M:129:LEU:O	1:M:1094:THR:HA	2.06	0.56
1:M:200:PRO:O	1:M:204:TYR:HD1	1.86	0.56
1:M:285:LYS:HG3	1:M:377:LEU:CD2	2.36	0.56
1:N:1078:LEU:CD1	3:V:86:ALA:HB2	2.35	0.56
1:O:124:ILE:HG12	1:O:1100:VAL:HG23	1.88	0.56
1:O:439:GLN:NE2	1:O:451:ARG:CD	2.61	0.56
1:P:444:GLY:HA3	1:P:450:LEU:HD11	1.88	0.56
2:Q:48:HIS:CD2	2:Q:138:ARG:HD3	2.41	0.56
2:Q:160:ILE:HD11	2:Q:206:VAL:HG12	1.84	0.56
3:S:168:SER:C	3:S:223:ARG:CG	2.79	0.56
2:T:114:VAL:HG23	2:T:145:THR:HG22	1.88	0.56
2:W:227:LEU:HD11	2:W:228:LEU:CD1	2.11	0.56
3:Y:112:ARG:CD	3:Y:264:THR:HG22	2.36	0.56
3:Y:153:GLN:O	3:Y:155:GLU:N	2.39	0.56
2:a:12:ILE:HG21	2:a:16:ILE:HG21	1.88	0.56
2:a:92:LEU:HD11	2:a:295:VAL:HG23	1.83	0.56
2:a:281:HIS:HE1	3:b:465:CYS:O	1.76	0.56
3:b:236:HIS:HA	3:b:323:GLU:OE1	2.06	0.56
2:c:147:LEU:HD12	2:c:181:TYR:CD1	2.41	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:c:317:TYR:CD1	2:c:318:PRO:HD2	2.40	0.56
3:e:112:ARG:CD	3:e:264:THR:HG22	2.36	0.56
3:e:279:PRO:HB3	3:e:284:SER:HA	1.87	0.56
4:h:77:PRO:CD	4:h:80:ALA:HB2	2.29	0.56
4:n:68:HIS:O	4:n:69:ALA:HB3	2.06	0.56
4:p:71:ASN:H	4:p:74:ALA:HB3	1.69	0.56
4:s:46:THR:OG1	4:s:50:VAL:CG1	2.49	0.56
1:G:1299:ALA:HA	1:G:1323:ASP:HB2	1.88	0.56
1:A:89:TYR:N	1:A:89:TYR:CD1	2.73	0.56
1:A:321:VAL:HG13	1:A:326:VAL:N	2.21	0.56
1:A:681:ASP:O	1:A:682:LEU:HD12	2.05	0.56
1:A:1131:LEU:HD23	1:A:1159:PRO:HG3	1.86	0.56
1:B:591:PHE:HZ	1:B:1045:HIS:CD2	2.24	0.56
1:C:264:LEU:C	1:C:266:HIS:H	2.13	0.56
1:C:467:MET:HE1	1:C:1032:SER:HA	1.86	0.56
1:C:730:ALA:CB	1:C:750:ARG:HH12	2.19	0.56
1:C:786:ASN:OD1	1:C:786:ASN:N	2.32	0.56
1:C:828:ALA:HB1	1:C:956:TYR:O	2.06	0.56
1:D:295:VAL:HG11	1:D:369:ALA:H	1.71	0.56
1:D:742:LEU:HA	1:D:745:HIS:HB3	1.87	0.56
1:D:917:GLY:O	1:D:1138:LEU:CD2	2.54	0.56
1:F:205:LEU:HD11	1:F:1290:GLU:OE2	2.06	0.56
1:F:318:THR:O	1:F:322:MET:C	2.49	0.56
1:H:581:ASN:ND2	1:H:1003:ARG:H	2.03	0.56
1:I:276:GLY:HA2	1:I:1066:SER:O	2.06	0.56
1:I:554:ALA:HB2	1:I:568:PRO:O	2.06	0.56
1:I:752:ARG:HD2	1:I:927:ARG:HE	1.65	0.56
1:J:402:PHE:N	1:J:402:PHE:CD2	2.72	0.56
1:J:469:ILE:HG21	1:J:547:PHE:CD2	2.41	0.56
1:J:750:ARG:HB3	1:J:912:ALA:HB1	1.88	0.56
1:J:1346:ALA:CB	1:J:1353:ALA:CB	2.73	0.56
1:K:293:LEU:C	1:K:295:VAL:N	2.63	0.56
1:L:304:VAL:HG21	1:L:358:PRO:CG	2.35	0.56
1:L:321:VAL:CG1	1:M:14:ALA:HB3	2.28	0.56
1:L:417:ALA:HB2	1:L:1358:PHE:CZ	2.41	0.56
1:M:873:ASN:ND2	4:r:92:PHE:CB	2.68	0.56
1:M:945:LEU:O	1:M:945:LEU:CG	2.39	0.56
1:N:382:LYS:HA	1:N:386:ALA:HB2	1.86	0.56
1:N:536:ASN:O	1:N:537:ALA:HB3	2.05	0.56
1:N:544:HIS:CD2	1:N:546:ALA:H	2.24	0.56
1:N:1218:LYS:CE	1:O:1173:ARG:HH22	2.18	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:191:LYS:O	1:O:192:ALA:HB2	2.05	0.56
1:O:198:LEU:O	1:O:201:MET:N	2.39	0.56
1:P:841:ASN:OD1	4:t:57:GLN:NE2	2.39	0.56
1:P:1116:ARG:O	1:P:1117:ASN:HB3	2.06	0.56
2:Q:16:ILE:HG22	2:Q:133:LEU:HD23	1.88	0.56
2:R:93:THR:HA	2:R:316:ARG:HH21	1.70	0.56
3:S:82:ASP:O	3:S:86:ALA:N	2.22	0.56
2:U:236:TYR:O	2:U:237:VAL:HB	2.06	0.56
3:V:112:ARG:CD	3:V:264:THR:HG22	2.36	0.56
2:X:37:ILE:O	3:Y:306:GLY:HA2	2.05	0.56
2:Z:154:ARG:HD2	2:Z:176:LEU:HB3	1.87	0.56
2:a:68:ARG:HD3	3:b:337:ARG:HG3	1.80	0.56
2:a:92:LEU:HD21	2:a:314:VAL:HG12	1.88	0.56
4:i:86:GLU:H	4:i:105:ASP:CB	2.19	0.56
4:l:68:HIS:O	4:l:69:ALA:HB3	2.06	0.56
4:r:68:HIS:O	4:r:69:ALA:HB3	2.06	0.56
4:t:74:ALA:HB1	4:t:75:PRO:HD3	1.88	0.56
1:G:295:VAL:HG23	1:G:368:VAL:C	1.92	0.55
1:G:778:ARG:O	1:G:904:ARG:NE	2.39	0.55
1:A:137:THR:HA	1:A:140:ILE:HD12	1.87	0.55
1:B:520:TRP:CE3	1:B:997:ASN:ND2	2.74	0.55
1:B:874:THR:HG23	1:B:877:ALA:H	1.71	0.55
1:C:121:THR:O	1:M:37:ASP:OD1	2.23	0.55
1:C:305:THR:HG22	1:C:306:TYR:N	2.20	0.55
1:C:499:ALA:HB1	1:C:831:ARG:HH11	1.69	0.55
1:C:580:GLY:HA2	1:C:592:ARG:HH12	1.71	0.55
1:C:803:ALA:O	1:C:806:THR:CG2	2.45	0.55
1:C:915:ASP:O	1:C:919:ASN:HB2	2.06	0.55
1:D:443:TRP:CH2	1:D:1347:ARG:HB3	2.41	0.55
1:E:440:LEU:HD23	1:E:452:LEU:HD12	1.88	0.55
1:F:143:LEU:CD2	1:F:161:ALA:HB1	2.36	0.55
1:H:1225:LEU:HD22	1:H:1234:PRO:HG3	1.87	0.55
1:I:532:MET:C	1:I:534:PRO:HD2	2.30	0.55
1:I:839:LEU:O	1:I:875:VAL:CG2	2.53	0.55
1:I:1029:PHE:HB3	1:I:1039:GLN:HE21	1.71	0.55
1:I:1073:TYR:CE2	1:I:1097:ARG:HD3	2.41	0.55
1:J:267:ALA:O	1:J:268:ASP:CB	2.45	0.55
1:J:278:LEU:CD2	1:J:370:ILE:CD1	2.84	0.55
1:J:642:CYS:O	4:o:87:TRP:CB	2.54	0.55
1:J:682:LEU:HD23	1:J:686:CYS:SG	2.45	0.55
1:K:281:THR:OG1	1:K:381:GLU:OE2	2.22	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:840:GLN:OE1	4:p:58:ALA:HA	2.06	0.55
1:L:259:VAL:HG11	1:L:1102:LEU:HD13	1.88	0.55
1:L:261:VAL:HG23	1:L:1068:ARG:NH1	2.15	0.55
1:L:776:PHE:CD2	1:L:833:ASP:HB3	2.40	0.55
1:L:888:GLY:HA3	4:q:69:ALA:HB2	1.89	0.55
1:L:942:PRO:HB2	1:L:944:HIS:ND1	2.21	0.55
1:M:202:GLN:O	1:M:203:ARG:HB2	2.06	0.55
1:M:236:LYS:NZ	1:M:1370:LYS:O	2.39	0.55
1:M:408:LEU:HB3	1:M:1196:ILE:HD11	1.89	0.55
1:O:403:VAL:HG23	1:O:1331:ALA:CB	2.36	0.55
1:O:486:PRO:O	1:O:509:TRP:HH2	1.86	0.55
1:O:1121:ASP:N	1:O:1181:GLN:O	2.37	0.55
1:O:1148:ARG:HG2	1:O:1148:ARG:HH21	1.70	0.55
1:P:275:ASP:OD2	1:P:373:ARG:HG3	2.07	0.55
3:S:438:ARG:HA	3:S:447:VAL:O	2.07	0.55
2:T:37:ILE:HG21	2:T:90:LEU:HD11	1.88	0.55
3:V:127:ALA:HB3	3:V:286:VAL:HA	1.87	0.55
2:W:114:VAL:HG23	2:W:145:THR:HG22	1.88	0.55
2:X:143:LEU:HD22	2:X:147:LEU:HD22	1.89	0.55
2:c:114:VAL:HG23	2:c:145:THR:HG22	1.88	0.55
2:d:159:GLY:CA	2:d:193:GLN:NE2	2.69	0.55
4:j:18:ARG:O	4:j:19:ALA:HB3	2.07	0.55
4:m:1:MET:N	4:m:5:GLN:HB3	2.20	0.55
4:s:46:THR:CG2	4:s:50:VAL:HG12	2.30	0.55
4:s:68:HIS:O	4:s:69:ALA:HB3	2.06	0.55
4:t:5:GLN:NE2	4:t:42:HIS:O	2.35	0.55
1:G:25:SER:HB2	1:G:62:CYS:HB3	1.88	0.55
1:G:96:GLN:OE1	1:B:49:LEU:CD2	2.53	0.55
1:G:299:GLU:O	1:G:300:ALA:C	2.48	0.55
1:G:419:HIS:O	1:G:420:ALA:C	2.49	0.55
1:G:589:VAL:HG13	1:G:1009:HIS:HD2	1.71	0.55
1:G:1286:HIS:NE2	1:G:1292:LEU:HA	2.20	0.55
1:G:1299:ALA:CA	1:G:1323:ASP:HB2	2.36	0.55
1:A:413:MET:HG2	1:B:1340:PRO:HD2	1.88	0.55
1:A:813:TYR:O	1:A:818:PRO:HD3	2.06	0.55
1:B:663:ALA:N	1:B:690:TYR:OH	2.36	0.55
1:B:742:LEU:HD22	1:B:765:TYR:OH	2.06	0.55
1:C:673:TYR:OH	1:C:801:ARG:NH2	2.39	0.55
1:C:739:CYS:HB2	1:C:785:HIS:CE1	2.42	0.55
1:C:976:PHE:HZ	1:C:984:ALA:HB2	1.69	0.55
1:C:1054:ARG:NH2	1:C:1123:GLY:HA3	2.21	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1355:GLU:CD	1:D:1344:ARG:HE	2.14	0.55
1:D:593:ASP:OD1	1:D:1009:HIS:NE2	2.28	0.55
1:D:840:GLN:HE22	4:j:58:ALA:CB	2.12	0.55
1:D:1197:ASN:O	1:D:1199:PHE:O	2.24	0.55
1:F:266:HIS:HE1	1:F:376:PHE:CE2	2.24	0.55
1:H:1048:PHE:HA	1:H:1192:VAL:HG13	1.88	0.55
1:I:591:PHE:HZ	1:I:1045:HIS:CD2	2.24	0.55
1:J:35:LEU:HD11	1:K:1291:ARG:NH2	2.20	0.55
1:J:297:ASP:O	1:J:367:LEU:HB2	2.07	0.55
1:J:466:LEU:HD12	1:J:1033:PRO:CD	2.33	0.55
1:J:944:HIS:CE1	1:J:951:ASN:HD21	2.18	0.55
1:K:559:PRO:HA	1:K:755:ARG:NH1	2.20	0.55
1:L:841:ASN:CG	4:q:57:GLN:HE21	2.13	0.55
1:L:889:PRO:N	4:q:69:ALA:CB	2.68	0.55
1:L:1035:ALA:O	1:L:1039:GLN:HG3	2.07	0.55
1:M:413:MET:HG3	1:N:1340:PRO:HD2	1.86	0.55
1:M:804:ASP:O	1:M:808:HIS:ND1	2.27	0.55
1:N:628:TYR:HB3	1:N:955:PHE:CZ	2.41	0.55
1:O:268:ASP:HA	1:O:273:PRO:HA	1.87	0.55
1:P:724:HIS:CD2	1:P:726:MET:H	2.25	0.55
1:P:759:GLY:HA2	1:P:780:ASP:CA	2.33	0.55
2:R:236:TYR:O	2:R:237:VAL:HB	2.06	0.55
3:S:96:ARG:O	3:S:97:ALA:HB3	2.06	0.55
2:U:242:GLN:O	2:U:245:SER:HB2	2.06	0.55
3:V:198:TYR:C	3:V:198:TYR:CD1	2.85	0.55
2:a:156:VAL:O	2:a:160:ILE:CD1	2.54	0.55
2:a:161:ARG:HD2	2:a:173:LEU:HB2	1.87	0.55
3:b:275:HIS:HD2	3:b:281:ARG:H	1.53	0.55
3:b:275:HIS:CD2	3:b:281:ARG:N	2.74	0.55
3:b:435:CYS:HB2	3:b:451:ILE:HD11	1.89	0.55
2:c:63:LEU:HB3	2:c:67:TYR:CE1	2.41	0.55
4:h:18:ARG:O	4:h:19:ALA:HB3	2.06	0.55
4:k:3:ALA:HB2	4:k:38:ASN:OD1	2.07	0.55
4:l:3:ALA:HB2	4:l:38:ASN:OD1	2.07	0.55
4:l:9:PRO:HB3	4:l:18:ARG:N	2.21	0.55
4:m:77:PRO:CD	4:m:80:ALA:HB2	2.29	0.55
4:q:46:THR:OG1	4:q:50:VAL:CG1	2.49	0.55
1:A:764:VAL:HG13	1:A:782:ARG:HE	1.70	0.55
1:A:904:ARG:HH12	1:A:906:THR:HG23	1.70	0.55
1:B:143:LEU:C	1:B:144:THR:OG1	2.48	0.55
1:C:356:SER:O	1:C:357:ALA:C	2.48	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:153:ILE:HG23	1:M:52:VAL:HG21	1.88	0.55
1:E:36:PHE:CD1	1:H:122:LYS:HG3	2.42	0.55
1:F:195:LEU:HD13	1:F:1109:VAL:HG21	1.88	0.55
1:F:873:ASN:OD1	4:g:92:PHE:CA	2.54	0.55
1:I:1057:ARG:O	1:I:1118:PRO:O	2.24	0.55
1:I:1197:ASN:O	1:I:1198:TYR:C	2.47	0.55
1:J:485:ASN:HD21	1:J:517:ARG:N	2.03	0.55
1:J:892:LEU:HD11	4:o:65:GLY:HA2	1.88	0.55
1:J:1013:SER:OG	1:J:1020:LEU:CD2	2.54	0.55
1:K:297:ASP:OD2	1:K:374:LEU:HD13	2.06	0.55
1:K:897:LEU:O	1:K:901:MET:HE2	2.07	0.55
1:L:623:TYR:OH	1:L:663:ALA:O	2.18	0.55
1:M:840:GLN:HE22	4:f:58:ALA:HB2	0.64	0.55
1:M:1232:SER:HB2	1:M:1237:PRO:O	2.06	0.55
1:N:280:THR:HB	1:N:1063:VAL:HG12	1.88	0.55
1:P:494:PRO:HB2	1:P:757:ASP:HA	1.88	0.55
1:P:1204:ASN:OD1	1:P:1206:ARG:CG	2.55	0.55
3:S:84:GLU:O	3:S:88:ASP:OD1	2.24	0.55
3:V:106:PRO:O	3:V:107:ARG:CG	2.50	0.55
2:X:150:GLU:O	2:X:154:ARG:HG2	2.06	0.55
2:X:161:ARG:HH11	2:X:174:PRO:HD2	1.72	0.55
3:b:149:PRO:HG2	3:b:152:ARG:NE	2.16	0.55
3:e:198:TYR:CD1	3:e:198:TYR:C	2.85	0.55
4:f:3:ALA:HB2	4:f:38:ASN:OD1	2.07	0.55
4:k:68:HIS:O	4:k:69:ALA:HB3	2.06	0.55
4:n:71:ASN:H	4:n:74:ALA:HB3	1.69	0.55
4:p:5:GLN:NE2	4:p:42:HIS:O	2.35	0.55
4:q:9:PRO:HB3	4:q:18:ARG:N	2.20	0.55
4:q:68:HIS:O	4:q:69:ALA:HB3	2.06	0.55
4:s:9:PRO:CA	4:s:17:VAL:CB	2.84	0.55
1:G:124:ILE:HA	1:G:1099:ASN:O	2.05	0.55
1:G:135:LEU:HD23	1:G:140:ILE:CD1	2.36	0.55
1:G:298:THR:CG2	1:G:362:ARG:CG	2.85	0.55
1:G:405:PRO:HB3	1:G:1199:PHE:CD2	2.41	0.55
1:G:830:VAL:CG2	1:G:955:PHE:CD1	2.88	0.55
1:A:397:ALA:CB	1:A:1321:VAL:HG22	2.36	0.55
1:A:790:ARG:HD2	4:g:104:ARG:HA	1.89	0.55
1:A:840:GLN:OE1	4:g:58:ALA:CA	2.54	0.55
1:B:320:LEU:HD12	1:B:321:VAL:HG23	1.88	0.55
1:B:701:ALA:O	1:B:727:ARG:NH2	2.37	0.55
1:C:268:ASP:O	1:C:269:THR:CG2	2.54	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:668:TYR:HB2	1:C:812:TYR:CD2	2.42	0.55
1:C:947:HIS:CD2	1:C:947:HIS:N	2.73	0.55
1:D:579:ASN:HA	1:D:1031:MET:HE3	1.88	0.55
1:D:876:ASN:HA	1:D:879:PHE:HD2	1.70	0.55
1:E:1196:ILE:O	1:E:1198:TYR:O	2.24	0.55
1:H:756:ILE:HD12	1:H:757:ASP:N	2.21	0.55
1:I:8:PRO:HB2	1:I:9:PRO:HD2	1.87	0.55
1:I:295:VAL:HG23	1:I:368:VAL:HB	1.87	0.55
1:J:264:LEU:CD2	1:J:266:HIS:CD2	2.90	0.55
1:J:700:LEU:HB3	1:J:1025:MET:HG3	1.89	0.55
1:J:1228:ASP:O	1:J:1230:GLY:N	2.40	0.55
1:L:756:ILE:CG2	1:L:908:LEU:CD1	2.71	0.55
1:N:589:VAL:HG13	1:N:1009:HIS:CD2	2.40	0.55
1:O:33:ARG:O	1:O:34:ARG:HG3	2.06	0.55
1:O:841:ASN:CG	4:s:57:GLN:HE22	2.14	0.55
1:P:264:LEU:C	1:P:266:HIS:H	2.13	0.55
1:P:532:MET:CG	1:P:534:PRO:HD2	2.33	0.55
2:R:163:LEU:HD12	2:R:163:LEU:C	2.29	0.55
3:S:106:PRO:C	3:S:107:ARG:HG2	2.29	0.55
2:T:63:LEU:HB3	2:T:67:TYR:CE1	2.41	0.55
2:U:246:VAL:O	2:U:249:GLU:N	2.40	0.55
2:W:296:ARG:HG3	2:W:318:PRO:C	2.26	0.55
3:Y:311:TYR:OH	3:Y:336:PRO:HD3	2.06	0.55
2:Z:63:LEU:HB3	2:Z:67:TYR:CE1	2.41	0.55
2:a:86:CYS:SG	2:a:94:HIS:HE1	2.29	0.55
2:a:150:GLU:O	2:a:154:ARG:HG2	2.06	0.55
2:a:246:VAL:O	2:a:249:GLU:N	2.40	0.55
3:b:440:GLU:O	3:b:445:VAL:O	2.24	0.55
2:c:158:ARG:NH1	2:c:177:ASN:OD1	2.37	0.55
2:d:246:VAL:O	2:d:249:GLU:N	2.40	0.55
4:g:23:ARG:C	4:g:25:LEU:N	2.59	0.55
4:m:68:HIS:O	4:m:69:ALA:HB3	2.06	0.55
4:n:18:ARG:O	4:n:19:ALA:HB3	2.06	0.55
4:o:1:MET:N	4:o:5:GLN:HB3	2.21	0.55
4:r:1:MET:N	4:r:5:GLN:HB3	2.21	0.55
4:t:3:ALA:HB2	4:t:38:ASN:OD1	2.07	0.55
1:G:472:ALA:O	1:G:476:VAL:N	2.34	0.55
1:G:546:ALA:HA	1:G:1031:MET:SD	2.47	0.55
1:B:70:PHE:HA	1:B:73:LEU:HD23	1.88	0.55
1:C:120:MET:CG	1:M:36:PHE:CE2	2.89	0.55
1:C:408:LEU:CD1	1:C:1199:PHE:HE2	2.20	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:846:GLU:CD	4:i:67:THR:OG1	2.49	0.55
1:D:31:SER:O	1:L:1290:GLU:HG3	2.06	0.55
1:D:429:HIS:N	1:D:429:HIS:CD2	2.75	0.55
1:D:739:CYS:O	1:D:743:MET:HG2	2.06	0.55
1:D:1037:TYR:CZ	1:D:1041:LYS:HG3	2.42	0.55
1:E:367:LEU:HB3	1:E:374:LEU:HD21	1.89	0.55
1:E:532:MET:CB	1:E:534:PRO:HD2	2.37	0.55
1:F:178:ARG:HH11	1:F:384:ILE:HA	1.71	0.55
1:F:191:LYS:CD	1:F:1071:GLU:OE2	2.54	0.55
1:H:485:ASN:O	1:H:487:TYR:N	2.37	0.55
1:H:485:ASN:HD21	1:H:487:TYR:HB2	1.70	0.55
1:H:500:ASP:OD2	1:H:504:ARG:NH2	2.39	0.55
1:I:840:GLN:CA	1:I:894:LEU:CD2	2.85	0.55
1:J:593:ASP:OD2	1:J:1013:SER:HB2	2.07	0.55
1:J:1136:PRO:O	1:J:1136:PRO:HG2	2.04	0.55
1:K:200:PRO:HA	1:K:203:ARG:HH21	1.70	0.55
1:L:534:PRO:CA	1:M:1154:GLY:HA3	2.36	0.55
1:N:534:PRO:HD2	1:N:1230:GLY:CA	2.32	0.55
1:O:920:THR:HG22	1:O:1138:LEU:HD23	1.88	0.55
1:P:847:ILE:HG21	4:t:71:ASN:HA	1.89	0.55
2:Q:230:LEU:CB	2:R:164:ASN:HB3	2.37	0.55
2:R:236:TYR:O	2:R:238:ASN:N	2.40	0.55
2:R:242:GLN:O	2:R:245:SER:HB2	2.06	0.55
3:S:164:LEU:HB3	3:S:230:CYS:SG	2.46	0.55
2:T:37:ILE:HG21	2:T:90:LEU:CD1	2.37	0.55
2:T:228:LEU:CG	2:T:238:ASN:HA	2.37	0.55
3:V:311:TYR:OH	3:V:336:PRO:HD3	2.06	0.55
2:W:16:ILE:HG22	2:W:133:LEU:HD23	1.88	0.55
3:Y:425:LEU:C	3:Y:458:ARG:O	2.50	0.55
2:Z:48:HIS:CD2	2:Z:138:ARG:HD3	2.41	0.55
2:Z:155:LEU:HD11	2:Z:188:LEU:HD11	1.87	0.55
2:a:143:LEU:HD22	2:a:147:LEU:HD22	1.89	0.55
2:c:228:LEU:CG	2:c:238:ASN:HA	2.37	0.55
2:d:242:GLN:O	2:d:245:SER:HB2	2.06	0.55
3:e:135:ARG:O	3:e:136:HIS:HB2	2.07	0.55
4:h:9:PRO:HA	4:h:18:ARG:H	1.72	0.55
4:h:18:ARG:CA	4:h:56:GLY:HA3	2.30	0.55
4:m:3:ALA:HB2	4:m:38:ASN:OD1	2.07	0.55
4:n:3:ALA:HB2	4:n:38:ASN:OD1	2.07	0.55
4:o:18:ARG:O	4:o:19:ALA:HB3	2.06	0.55
1:G:285:LYS:HG3	1:G:377:LEU:HG	1.88	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1008:GLN:HE22	1:G:1011:ARG:NH1	2.05	0.55
1:G:1104:VAL:HG23	1:G:1105:GLY:H	1.70	0.55
1:B:214:VAL:HG22	1:C:1177:MET:HE1	1.89	0.55
1:B:945:LEU:O	1:B:946:ASP:CB	2.54	0.55
1:B:1200:ARG:NH2	1:B:1355:GLU:OE2	2.40	0.55
1:B:1229:HIS:NE2	1:B:1241:THR:HG22	2.21	0.55
1:B:1233:ASP:O	1:B:1236:ARG:O	2.25	0.55
1:C:147:ALA:O	1:C:148:LEU:HD12	2.06	0.55
1:C:235:GLY:HA2	1:C:1114:THR:HG22	1.87	0.55
1:C:519:ARG:HH21	1:C:538:ASN:HB3	1.72	0.55
1:C:827:THR:OG1	1:C:959:PRO:HA	2.07	0.55
1:E:559:PRO:C	1:E:755:ARG:HH12	2.13	0.55
1:F:484:ALA:C	1:F:485:ASN:HD22	2.14	0.55
1:F:626:VAL:HG23	1:F:627:PHE:CD1	2.42	0.55
1:F:714:LEU:HD13	1:F:719:GLN:HE22	1.72	0.55
1:F:775:ASP:O	1:F:903:GLU:HB2	2.05	0.55
1:H:1160:ALA:O	1:H:1161:GLN:HG2	2.07	0.55
1:H:1199:PHE:O	1:H:1200:ARG:HB2	2.05	0.55
1:H:1278:THR:C	1:H:1280:ALA:H	2.15	0.55
1:I:269:THR:CG2	1:I:374:LEU:CD2	2.72	0.55
1:I:302:VAL:CG1	1:I:360:THR:HB	2.36	0.55
1:I:463:HIS:ND1	1:I:465:SER:HB3	2.22	0.55
1:J:279:VAL:CG2	1:J:394:LEU:HD11	2.37	0.55
1:J:729:PRO:O	1:J:730:ALA:C	2.49	0.55
1:J:946:ASP:C	1:J:947:HIS:CG	2.84	0.55
1:J:1335:THR:OG1	1:J:1365:ASP:N	2.40	0.55
1:K:527:THR:HG22	1:K:527:THR:O	2.05	0.55
1:K:844:VAL:HG12	4:p:68:HIS:CB	2.36	0.55
1:K:1008:GLN:HE21	1:K:1012:GLU:HB2	1.70	0.55
1:L:303:PRO:HD2	1:L:361:THR:O	2.06	0.55
1:P:486:PRO:HD2	1:P:512:ARG:HD3	1.88	0.55
1:P:541:LEU:CD2	1:P:571:ILE:HD11	2.37	0.55
2:Q:10:ILE:HB	2:Q:83:ILE:HB	1.89	0.55
2:Q:37:ILE:HG21	2:Q:90:LEU:HD11	1.88	0.55
2:Q:228:LEU:CG	2:Q:238:ASN:HA	2.37	0.55
2:R:14:SER:O	2:R:133:LEU:HD11	2.07	0.55
3:S:347:PHE:CB	3:S:350:LEU:HD11	2.36	0.55
2:T:16:ILE:HG22	2:T:133:LEU:HD23	1.88	0.55
2:T:48:HIS:CD2	2:T:138:ARG:HD3	2.41	0.55
2:U:236:TYR:O	2:U:238:ASN:N	2.40	0.55
3:V:421:ALA:HA	3:V:464:ALA:HB2	1.88	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:W:37:ILE:HG21	2:W:90:LEU:CD1	2.37	0.55
2:W:276:VAL:HG11	2:X:154:ARG:HE	1.72	0.55
2:X:242:GLN:O	2:X:245:SER:HB2	2.06	0.55
3:Y:292:ALA:HB1	3:Y:294:VAL:HB	1.89	0.55
2:a:32:VAL:CG1	2:a:46:VAL:CG1	2.84	0.55
2:a:96:GLY:CA	2:a:300:PHE:HE2	2.19	0.55
3:b:198:TYR:C	3:b:198:TYR:CD2	2.85	0.55
2:d:13:PRO:O	2:d:133:LEU:CD1	2.54	0.55
3:e:437:HIS:N	3:e:449:VAL:O	2.24	0.55
3:e:446:GLY:C	3:e:447:VAL:CG2	2.79	0.55
4:g:3:ALA:HB2	4:g:38:ASN:OD1	2.07	0.55
4:g:18:ARG:O	4:g:19:ALA:HB3	2.06	0.55
4:h:107:LYS:HG2	4:h:108:THR:N	2.22	0.55
4:q:1:MET:H3	4:q:5:GLN:CB	2.15	0.55
4:r:3:ALA:HB2	4:r:38:ASN:OD1	2.07	0.55
1:G:1072:ALA:HB2	1:G:1102:LEU:HD11	1.89	0.55
1:G:1166:PHE:CZ	2:Q:280:ALA:CA	2.88	0.55
1:G:1319:GLU:HG3	1:G:1320:LEU:N	2.22	0.55
1:A:195:LEU:HD13	1:A:195:LEU:O	2.04	0.55
1:A:776:PHE:HD1	1:A:903:GLU:HA	1.71	0.55
1:A:840:GLN:CD	4:g:58:ALA:HB2	2.31	0.55
1:A:1061:GLU:CG	1:A:1114:THR:HG22	2.35	0.55
1:B:470:ASP:OD1	1:B:471:ALA:N	2.39	0.55
1:B:520:TRP:CD1	1:B:520:TRP:N	2.73	0.55
1:B:765:TYR:CE1	1:B:783:LEU:HB2	2.42	0.55
1:B:1342:LEU:O	1:B:1345:SER:OG	2.20	0.55
1:C:751:HIS:CE1	1:C:754:CYS:HB2	2.42	0.55
1:D:280:THR:O	1:D:392:TYR:OH	2.21	0.55
1:D:827:THR:HG21	1:D:960:VAL:HG22	1.89	0.55
1:E:134:SER:HB2	1:E:1090:ASN:OD1	2.07	0.55
1:F:26:THR:C	1:F:27:ILE:CG2	2.79	0.55
1:F:530:GLN:HG3	1:F:536:ASN:ND2	2.22	0.55
1:H:726:MET:HE3	1:H:815:VAL:HG23	1.89	0.55
1:I:269:THR:C	1:I:271:GLY:N	2.64	0.55
1:I:329:LEU:O	1:I:333:GLY:N	2.35	0.55
1:J:248:LEU:HD23	1:J:293:LEU:HD23	1.88	0.55
1:J:469:ILE:HD11	1:J:926:MET:HE1	1.89	0.55
1:J:1054:ARG:NH1	1:J:1123:GLY:CA	2.48	0.55
1:J:1148:ARG:O	1:J:1152:VAL:HB	2.06	0.55
1:J:1301:SER:HB3	1:J:1321:VAL:HG12	1.87	0.55
1:K:439:GLN:HB3	1:K:451:ARG:HD2	1.88	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:953:GLU:CD	1:K:953:GLU:N	2.65	0.55
1:L:730:ALA:CB	1:L:750:ARG:HH12	2.19	0.55
1:M:124:ILE:HD13	1:M:1100:VAL:CG2	2.37	0.55
1:M:203:ARG:O	1:M:203:ARG:HG2	2.06	0.55
1:N:377:LEU:HD12	1:N:378:GLU:N	2.21	0.55
1:N:733:PRO:HG2	1:N:736:VAL:HG22	1.88	0.55
1:N:1355:GLU:CD	1:O:1344:ARG:HE	2.14	0.55
1:O:551:ALA:HA	1:O:571:ILE:HA	1.89	0.55
1:P:919:ASN:O	1:P:919:ASN:ND2	2.39	0.55
2:Q:154:ARG:HD2	2:Q:176:LEU:HB3	1.87	0.55
3:S:96:ARG:HH22	3:S:97:ALA:HB2	1.70	0.55
3:S:161:TRP:CH2	3:S:165:LEU:HD12	2.42	0.55
3:S:299:GLU:O	3:S:300:LEU:HB2	2.07	0.55
2:T:276:VAL:HG11	2:U:154:ARG:HE	1.72	0.55
2:U:143:LEU:HD22	2:U:147:LEU:HD22	1.89	0.55
2:W:37:ILE:HG21	2:W:90:LEU:HD11	1.88	0.55
2:W:154:ARG:HD2	2:W:176:LEU:HB3	1.87	0.55
2:W:228:LEU:CG	2:W:238:ASN:HA	2.37	0.55
3:Y:164:LEU:HD12	3:Y:164:LEU:C	2.32	0.55
3:Y:286:VAL:O	3:Y:287:THR:OG1	2.19	0.55
3:b:112:ARG:CD	3:b:264:THR:CG2	2.85	0.55
3:b:197:ALA:HB3	3:b:324:LEU:HD11	1.88	0.55
3:b:271:GLN:O	3:b:286:VAL:HG11	2.06	0.55
2:c:16:ILE:HG22	2:c:133:LEU:HD23	1.88	0.55
2:c:92:LEU:HD12	2:c:93:THR:O	2.07	0.55
2:d:106:VAL:HG12	2:d:107:ASP:H	1.72	0.55
3:e:292:ALA:HB1	3:e:294:VAL:HB	1.89	0.55
4:h:68:HIS:O	4:h:69:ALA:HB3	2.06	0.55
4:r:18:ARG:O	4:r:19:ALA:HB3	2.07	0.55
1:G:75:LEU:CD1	1:G:75:LEU:C	2.77	0.55
1:G:425:PRO:CG	1:G:429:HIS:ND1	2.65	0.55
1:G:506:LEU:O	1:G:510:ARG:HD3	2.06	0.55
1:G:527:THR:OG1	1:G:585:ALA:O	2.25	0.55
1:G:626:VAL:HG11	1:G:879:PHE:HA	1.88	0.55
1:G:828:ALA:N	1:G:937:VAL:O	2.38	0.55
1:B:904:ARG:NH1	1:B:906:THR:HG23	2.22	0.55
1:C:51:ASP:CB	3:S:278:HIS:ND1	2.69	0.55
1:D:668:TYR:HB2	1:D:812:TYR:CD2	2.42	0.55
1:E:233:PHE:CE2	1:E:244:ILE:HD13	2.42	0.55
1:E:775:ASP:OD2	1:E:778:ARG:HB3	2.07	0.55
1:E:1197:ASN:O	1:E:1200:ARG:HB2	2.06	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:258:SER:OG	1:F:258:SER:O	2.24	0.55
1:H:72:GLU:CB	1:H:363:VAL:HG11	2.36	0.55
1:H:234:LEU:HB3	1:H:1113:ALA:HB1	1.89	0.55
1:H:1194:THR:O	1:H:1195:ASP:C	2.42	0.55
1:I:122:LYS:NZ	1:L:35:LEU:HD12	2.15	0.55
1:I:599:LEU:O	1:I:603:ARG:NH1	2.38	0.55
1:J:263:ARG:NE	1:J:307:GLY:CA	2.69	0.55
1:J:467:MET:C	1:J:920:THR:CB	2.79	0.55
1:K:790:ARG:NH1	4:p:103:VAL:O	2.40	0.55
1:K:1225:LEU:HD11	1:L:1176:GLY:HA3	1.87	0.55
1:M:207:ASN:C	1:M:209:ARG:H	2.14	0.55
1:M:214:VAL:HG11	1:N:1305:ALA:O	2.06	0.55
1:M:770:ASN:H	1:M:773:THR:HB	1.70	0.55
1:M:1057:ARG:HH12	1:M:1321:VAL:CG2	2.19	0.55
1:M:1325:CYS:O	1:M:1329:GLN:HA	2.06	0.55
1:N:1251:SER:O	1:N:1254:ASP:HB3	2.05	0.55
1:P:1095:GLN:HG3	1:P:1095:GLN:O	2.05	0.55
1:P:1229:HIS:CD2	1:P:1241:THR:HG21	2.39	0.55
2:Q:227:LEU:HD13	2:Q:228:LEU:CD1	2.00	0.55
2:T:92:LEU:HD12	2:T:93:THR:O	2.07	0.55
3:V:130:LEU:HD21	3:V:425:LEU:CD1	2.36	0.55
3:V:275:HIS:CD2	3:V:280:GLY:HA3	2.42	0.55
2:a:36:THR:HA	2:a:71:PHE:HD1	1.72	0.55
2:a:37:ILE:O	2:a:37:ILE:HG13	2.07	0.55
3:e:130:LEU:HD21	3:e:425:LEU:CD1	2.36	0.55
3:e:292:ALA:HB1	3:e:295:ASP:N	2.19	0.55
4:h:107:LYS:HG2	4:h:108:THR:H	1.71	0.55
4:m:18:ARG:O	4:m:19:ALA:HB3	2.05	0.55
4:p:20:LEU:CD1	4:p:20:LEU:N	2.70	0.55
4:t:68:HIS:O	4:t:69:ALA:HB3	2.06	0.55
1:G:299:GLU:CB	1:G:363:VAL:HG12	2.36	0.55
1:G:408:LEU:HD13	1:G:1196:ILE:HD13	1.88	0.55
1:G:583:PRO:HG2	1:G:586:LEU:HB2	1.88	0.55
1:A:960:VAL:HG12	1:A:994:LEU:HD13	1.87	0.55
1:B:148:LEU:HD12	1:B:148:LEU:N	2.22	0.55
1:B:1229:HIS:NE2	1:B:1241:THR:CG2	2.69	0.55
1:B:1299:ALA:O	1:B:1320:LEU:HA	2.06	0.55
1:C:49:LEU:N	1:C:49:LEU:HD23	2.22	0.55
1:C:646:ARG:NH2	4:i:78:MET:CB	2.70	0.55
1:C:724:HIS:CE1	1:C:1028:TYR:HB2	2.41	0.55
1:D:1133:ARG:O	1:D:1133:ARG:HG3	2.06	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:407:GLY:O	1:F:1192:VAL:HG12	2.07	0.55
1:H:1321:VAL:HG22	1:H:1322:GLU:H	1.71	0.55
1:I:69:ARG:NH1	3:Y:42:ALA:C	2.65	0.55
1:I:70:PHE:HD1	1:I:181:ALA:HB2	1.72	0.55
1:I:84:PHE:HD1	1:I:309:MET:CG	2.20	0.55
1:I:269:THR:O	1:I:271:GLY:N	2.40	0.55
1:I:750:ARG:HE	1:I:915:ASP:HA	1.70	0.55
1:I:847:ILE:HG22	4:n:67:THR:O	2.07	0.55
1:J:69:ARG:O	1:J:70:PHE:HB3	2.07	0.55
1:J:670:LEU:HA	1:J:673:TYR:HD2	1.72	0.55
1:K:321:VAL:HG23	1:K:322:MET:HG3	1.89	0.55
1:K:833:ASP:OD1	1:K:834:ARG:N	2.39	0.55
1:K:903:GLU:HG2	1:K:904:ARG:N	2.20	0.55
1:K:1191:PRO:HD2	1:K:1243:ASN:OD1	2.07	0.55
1:M:266:HIS:ND1	1:M:267:ALA:N	2.55	0.55
1:M:424:VAL:HG13	1:M:425:PRO:HD2	1.89	0.55
1:N:738:ASP:CG	1:N:787:THR:HG21	2.31	0.55
1:N:763:PRO:HB2	1:N:765:TYR:HE1	1.72	0.55
1:P:129:LEU:CD1	1:P:183:GLN:HE21	2.20	0.55
1:P:539:LEU:O	1:P:1248:GLN:NE2	2.27	0.55
1:P:1208:ARG:NH1	1:P:1228:ASP:O	2.39	0.55
2:Q:160:ILE:CD1	2:Q:206:VAL:HG12	2.34	0.55
2:R:160:ILE:O	2:R:161:ARG:C	2.49	0.55
3:S:416:THR:OG1	3:S:417:CYS:N	2.38	0.55
2:W:295:VAL:HG11	2:W:314:VAL:HG11	1.79	0.55
2:X:246:VAL:O	2:X:249:GLU:N	2.40	0.55
2:Z:298:CYS:HB3	2:Z:315:ILE:HD11	1.87	0.55
2:c:37:ILE:HG21	2:c:90:LEU:HD11	1.88	0.55
3:e:254:TRP:CE3	3:e:254:TRP:N	2.73	0.55
4:j:1:MET:N	4:j:5:GLN:HB3	2.21	0.55
4:j:3:ALA:HB2	4:j:38:ASN:OD1	2.07	0.55
4:k:23:ARG:C	4:k:25:LEU:N	2.59	0.55
1:G:707:PHE:HA	1:G:1042:THR:HG21	1.89	0.55
1:G:734:PRO:HB3	1:G:960:VAL:HG21	1.89	0.55
1:G:1161:GLN:CG	2:R:180:TYR:CD1	2.87	0.55
1:A:595:ARG:NH1	1:A:1045:HIS:O	2.40	0.55
1:A:676:THR:HG21	1:F:946:ASP:HB3	1.89	0.55
1:A:733:PRO:HG2	1:A:736:VAL:HG22	1.88	0.55
1:A:946:ASP:HA	1:B:677:TYR:OH	2.07	0.55
1:C:179:GLY:O	1:C:183:GLN:HG2	2.07	0.55
1:C:264:LEU:CD2	1:C:266:HIS:HB3	2.37	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:681:ASP:O	1:C:682:LEU:HD12	2.07	0.55
1:D:838:THR:HG1	1:D:954:TYR:HH	1.51	0.55
1:D:1223:ILE:HG23	1:D:1249:ARG:HH22	1.72	0.55
1:E:34:ARG:HH22	1:H:1286:HIS:CB	2.21	0.55
1:E:302:VAL:HG12	1:E:360:THR:HB	1.89	0.55
1:E:439:GLN:HG2	1:E:453:SER:HB3	1.90	0.55
1:E:1160:ALA:O	1:E:1161:GLN:HG2	2.07	0.55
1:H:89:TYR:O	1:H:90:MET:HB2	2.06	0.55
1:I:216:ARG:NH1	1:I:1287:ARG:NH1	2.55	0.55
1:I:224:LYS:NZ	1:I:1330:GLU:OE2	2.36	0.55
1:I:291:SER:O	1:I:294:LYS:HE2	2.07	0.55
1:I:319:ALA:O	1:I:323:GLY:HA2	2.07	0.55
1:J:464:PRO:C	1:J:466:LEU:N	2.62	0.55
1:J:644:LEU:O	1:J:647:LEU:HB3	2.07	0.55
1:J:846:GLU:CD	4:o:67:THR:HG1	2.12	0.55
1:J:1106:TYR:OH	1:J:1293:ILE:HD11	2.07	0.55
1:K:442:PHE:CE2	1:K:450:LEU:HD12	2.41	0.55
1:L:591:PHE:CZ	1:L:1045:HIS:HD2	2.21	0.55
1:M:213:ARG:HD3	1:N:1308:ASP:OD1	2.07	0.55
1:N:730:ALA:HA	1:N:745:HIS:ND1	2.21	0.55
1:N:775:ASP:OD2	1:N:778:ARG:HB3	2.06	0.55
1:O:487:TYR:HE1	1:O:505:PHE:CZ	2.25	0.55
1:O:1229:HIS:NE2	1:O:1241:THR:HG21	2.22	0.55
1:P:863:HIS:ND1	1:P:864:PRO:CD	2.58	0.55
1:P:1218:LYS:CE	1:P:1221:ASP:CG	2.72	0.55
1:P:1297:GLY:HA2	1:P:1322:GLU:HG3	1.88	0.55
3:S:164:LEU:HD13	3:S:227:PHE:CA	2.37	0.55
2:U:13:PRO:HD2	2:U:43:LEU:HD23	1.89	0.55
3:V:289:PRO:CA	3:V:450:VAL:O	2.50	0.55
2:W:228:LEU:HG	2:W:238:ASN:HA	1.89	0.55
2:Z:10:ILE:HB	2:Z:83:ILE:HB	1.89	0.55
2:Z:37:ILE:HG21	2:Z:90:LEU:HD11	1.88	0.55
2:a:30:ARG:NH1	2:a:139:PHE:CG	2.74	0.55
2:a:96:GLY:C	2:a:97:THR:HG1	1.98	0.55
2:a:157:ALA:HA	2:a:160:ILE:HG13	1.88	0.55
2:a:285:LEU:CD2	2:a:288:ILE:HD11	2.37	0.55
3:b:148:ALA:O	3:b:152:ARG:HD2	2.07	0.55
3:b:296:LEU:HD12	3:b:297:ASP:N	2.22	0.55
2:c:48:HIS:CD2	2:c:138:ARG:HD3	2.41	0.55
2:c:189:VAL:HG13	2:c:195:LEU:HD11	1.88	0.55
2:d:143:LEU:HD22	2:d:147:LEU:HD22	1.89	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:d:236:TYR:O	2:d:238:ASN:N	2.40	0.55
3:e:138:THR:HG22	3:e:139:ASP:OD1	2.07	0.55
4:i:1:MET:N	4:i:5:GLN:HB3	2.21	0.55
4:l:9:PRO:HB3	4:l:18:ARG:C	2.30	0.55
4:m:8:ARG:CB	4:m:18:ARG:CB	2.85	0.55
1:A:227:PHE:CZ	1:A:1324:PRO:HG2	2.42	0.54
1:A:274:VAL:HG11	1:A:376:PHE:CD2	2.41	0.54
1:A:520:TRP:CD2	1:A:997:ASN:ND2	2.70	0.54
1:C:842:MET:CE	1:C:894:LEU:HD23	2.37	0.54
1:C:1055:GLN:HB3	1:C:1310:GLN:HE22	1.71	0.54
1:D:976:PHE:CE2	1:D:981:ARG:HD2	2.43	0.54
1:F:410:ASN:ND2	1:F:1358:PHE:O	2.37	0.54
1:F:530:GLN:HA	1:F:536:ASN:ND2	2.22	0.54
1:F:764:VAL:C	1:F:765:TYR:CD1	2.85	0.54
1:H:266:HIS:HE1	1:H:376:PHE:CZ	2.24	0.54
1:H:599:LEU:O	1:H:603:ARG:NH1	2.39	0.54
1:I:69:ARG:CZ	3:Y:42:ALA:HB3	2.34	0.54
1:J:195:LEU:HD23	1:J:1109:VAL:HG21	1.90	0.54
1:J:251:LEU:CD2	1:J:278:LEU:HD11	2.37	0.54
1:J:401:THR:C	1:J:402:PHE:CD2	2.85	0.54
1:J:527:THR:O	1:J:528:ALA:HB3	2.07	0.54
1:J:730:ALA:CB	1:J:750:ARG:NH1	2.70	0.54
1:K:280:THR:HG22	1:K:284:ILE:HB	1.89	0.54
1:K:419:HIS:NE2	1:L:421:GLY:O	2.40	0.54
1:K:604:HIS:HD2	1:K:696:HIS:HD2	1.52	0.54
1:K:730:ALA:CB	1:K:750:ARG:HH12	2.20	0.54
1:K:1037:TYR:O	1:K:1041:LYS:HG2	2.07	0.54
1:L:1057:ARG:HD3	1:L:1119:VAL:HG11	1.88	0.54
1:N:417:ALA:O	1:N:1354:ARG:NH2	2.40	0.54
1:N:1301:SER:OG	1:N:1319:GLU:HB2	2.07	0.54
1:P:265:THR:C	1:P:267:ALA:H	2.14	0.54
2:Q:114:VAL:HG23	2:Q:145:THR:HG22	1.88	0.54
2:R:102:ASN:ND2	2:R:308:SER:HA	2.23	0.54
3:S:292:ALA:C	3:S:294:VAL:H	2.04	0.54
3:S:421:ALA:HA	3:S:464:ALA:HB2	1.88	0.54
2:T:10:ILE:HB	2:T:83:ILE:HB	1.89	0.54
2:T:189:VAL:HG13	2:T:195:LEU:HD11	1.88	0.54
2:T:228:LEU:HG	2:T:238:ASN:HA	1.89	0.54
3:Y:198:TYR:CD1	3:Y:198:TYR:C	2.86	0.54
2:Z:92:LEU:HD12	2:Z:93:THR:O	2.07	0.54
3:b:112:ARG:HD3	3:b:264:THR:CG2	2.37	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:b:210:HIS:CD2	3:b:210:HIS:C	2.85	0.54
3:b:279:PRO:CB	3:b:283:CYS:C	2.61	0.54
2:d:13:PRO:HD2	2:d:43:LEU:HD23	1.89	0.54
3:e:458:ARG:N	3:e:459:PRO:HD3	2.22	0.54
4:f:46:THR:CB	4:f:50:VAL:CG1	2.85	0.54
4:i:3:ALA:HB2	4:i:38:ASN:OD1	2.07	0.54
4:o:46:THR:CB	4:o:50:VAL:CG1	2.85	0.54
1:G:417:ALA:O	1:G:418:ALA:HB3	2.07	0.54
1:G:418:ALA:C	1:G:1354:ARG:NH2	2.65	0.54
1:G:1302:THR:C	1:G:1313:ARG:HB2	2.31	0.54
1:A:147:ALA:O	1:A:148:LEU:HD12	2.06	0.54
1:A:208:GLY:HA3	1:B:389:ASN:C	2.31	0.54
1:A:454:MET:O	1:A:455:GLU:C	2.49	0.54
1:B:347:ASN:OD1	1:B:349:GLU:HG3	2.07	0.54
1:B:756:ILE:HD11	1:B:906:THR:HG22	1.89	0.54
1:B:1082:ARG:CA	1:B:1091:PHE:H	2.20	0.54
1:B:1084:GLU:OE1	3:S:97:ALA:HB2	2.06	0.54
1:C:750:ARG:NH2	1:C:913:ALA:O	2.40	0.54
1:E:1084:GLU:O	1:E:1089:VAL:HA	2.07	0.54
1:H:1100:VAL:HG12	1:H:1101:ASP:O	2.07	0.54
1:I:29:VAL:O	1:I:30:ALA:C	2.48	0.54
1:I:324:LYS:HA	1:J:55:ASP:H	1.72	0.54
1:I:656:TRP:CD2	1:I:686:CYS:HB3	2.42	0.54
1:J:141:ALA:HB1	1:J:147:ALA:HB2	1.89	0.54
1:J:185:LEU:O	1:J:186:HIS:C	2.44	0.54
1:J:876:ASN:HA	1:J:879:PHE:HD2	1.71	0.54
1:J:895:GLN:CD	4:o:62:THR:HG22	2.32	0.54
1:K:586:LEU:HD23	1:K:1245:TRP:CZ2	2.41	0.54
1:M:606:MET:H	1:M:1018:ASN:HD21	1.54	0.54
1:N:840:GLN:HA	4:r:61:LEU:HD11	1.89	0.54
1:N:844:VAL:HG12	4:r:68:HIS:CB	2.38	0.54
1:N:1216:GLY:N	1:N:1221:ASP:OD2	2.40	0.54
1:P:1227:TYR:CD1	1:P:1249:ARG:HB2	2.42	0.54
2:R:12:ILE:HD11	2:R:83:ILE:CG1	2.37	0.54
3:S:130:LEU:HD21	3:S:425:LEU:CD1	2.36	0.54
3:S:292:ALA:HB1	3:S:295:ASP:N	2.19	0.54
3:V:81:ASP:CB	3:V:85:GLN:NE2	2.71	0.54
2:X:13:PRO:HB2	2:X:133:LEU:HD13	1.90	0.54
2:X:285:LEU:CD2	2:X:288:ILE:HD11	2.37	0.54
3:Y:268:SER:HB2	3:Y:457:TRP:O	2.07	0.54
2:Z:189:VAL:HG13	2:Z:195:LEU:HD11	1.88	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:a:161:ARG:O	2:a:173:LEU:HD21	2.08	0.54
2:a:236:TYR:O	2:a:238:ASN:N	2.40	0.54
3:b:134:LEU:HD22	3:b:185:VAL:CG2	2.37	0.54
2:c:104:SER:CB	2:c:105:PRO:CD	2.85	0.54
2:d:150:GLU:O	2:d:154:ARG:HG2	2.06	0.54
2:d:236:TYR:O	2:d:237:VAL:HB	2.06	0.54
4:h:3:ALA:HB2	4:h:38:ASN:OD1	2.07	0.54
4:o:24:GLY:H	4:o:27:LEU:HB2	1.73	0.54
4:q:3:ALA:HB2	4:q:38:ASN:OD1	2.07	0.54
4:s:24:GLY:H	4:s:27:LEU:HB2	1.73	0.54
1:A:451:ARG:NH2	1:A:453:SER:HB3	2.22	0.54
1:B:1198:TYR:C	1:B:1198:TYR:CD1	2.85	0.54
1:C:120:MET:HB2	1:M:36:PHE:CG	2.42	0.54
1:C:833:ASP:OD1	1:C:834:ARG:N	2.39	0.54
1:D:134:SER:CB	1:M:44:SER:CB	2.81	0.54
1:D:142:LEU:HG	1:D:158:GLN:HA	1.89	0.54
1:D:534:PRO:CB	1:E:1154:GLY:H	2.19	0.54
1:D:534:PRO:HB2	1:E:1154:GLY:H	1.71	0.54
1:D:589:VAL:HG23	1:D:1009:HIS:CD2	2.42	0.54
1:D:618:PHE:HA	1:D:940:MET:HB3	1.89	0.54
1:D:728:ASP:O	1:D:810:LYS:NZ	2.41	0.54
1:D:786:ASN:HB2	1:D:788:GLN:HE22	1.73	0.54
1:D:904:ARG:HH12	1:D:906:THR:HG23	1.72	0.54
1:F:681:ASP:O	1:F:682:LEU:HD12	2.07	0.54
1:F:864:PRO:HG3	1:F:888:GLY:HA2	1.88	0.54
1:F:1222:VAL:O	1:F:1223:ILE:HB	2.06	0.54
1:H:347:ASN:OD1	1:I:163:GLN:HB3	2.06	0.54
1:H:544:HIS:CD2	1:H:547:PHE:HD2	2.25	0.54
1:I:94:ARG:HH22	1:J:55:ASP:CG	2.15	0.54
1:I:191:LYS:NZ	1:I:1070:SER:O	2.40	0.54
1:I:247:TRP:CE3	1:I:248:LEU:HD12	2.42	0.54
1:I:1074:PHE:CD1	1:I:1074:PHE:N	2.73	0.54
1:I:1252:TYR:CZ	1:I:1256:LEU:HD11	2.41	0.54
1:J:84:PHE:HE1	1:J:311:LEU:CD1	2.19	0.54
1:J:764:VAL:HG13	1:J:782:ARG:HG2	1.90	0.54
1:J:805:TRP:CE2	1:J:809:HIS:CE1	2.95	0.54
1:J:1157:LEU:HD22	1:J:1269:VAL:HG21	1.89	0.54
1:K:433:ARG:HH12	1:P:416:PHE:HD2	1.54	0.54
1:K:493:ALA:CB	1:K:755:ARG:HH11	2.20	0.54
1:K:947:HIS:CD2	1:K:947:HIS:N	2.75	0.54
1:L:1222:VAL:C	1:L:1223:ILE:HG12	2.25	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:138:GLU:O	1:M:142:LEU:HD22	2.07	0.54
1:N:520:TRP:CD1	1:N:997:ASN:HD22	2.25	0.54
1:O:844:VAL:CG1	4:s:68:HIS:CB	2.85	0.54
1:P:75:LEU:HA	1:P:277:VAL:HG21	1.90	0.54
1:P:233:PHE:HZ	1:P:243:ALA:HB1	1.72	0.54
1:P:454:MET:CE	1:P:1050:PHE:CE2	2.90	0.54
2:Q:37:ILE:HG21	2:Q:90:LEU:CD1	2.37	0.54
3:S:112:ARG:CD	3:S:264:THR:HG22	2.36	0.54
3:S:134:LEU:HB2	3:S:185:VAL:HG23	1.90	0.54
3:V:242:HIS:CD2	3:V:243:GLU:H	2.25	0.54
3:V:292:ALA:HB1	3:V:294:VAL:HB	1.89	0.54
2:W:117:VAL:HG23	2:W:119:PRO:HD2	1.90	0.54
2:W:272:TYR:CE2	2:X:161:ARG:HB2	2.33	0.54
3:Y:32:PRO:O	3:Y:36:VAL:HG11	2.04	0.54
3:Y:143:LEU:C	3:Y:145:ARG:H	2.13	0.54
2:Z:298:CYS:HB3	2:Z:315:ILE:CD1	2.37	0.54
2:a:36:THR:HA	2:a:71:PHE:CD1	2.43	0.54
2:a:96:GLY:CA	2:a:300:PHE:CE2	2.90	0.54
2:a:108:LEU:O	2:a:112:ASP:CG	2.45	0.54
3:b:161:TRP:CZ3	3:b:165:LEU:CD2	2.90	0.54
2:c:10:ILE:HB	2:c:83:ILE:HB	1.89	0.54
4:f:24:GLY:H	4:f:27:LEU:HB2	1.73	0.54
4:g:24:GLY:H	4:g:27:LEU:HB2	1.73	0.54
4:s:46:THR:CG2	4:s:50:VAL:HG11	2.18	0.54
1:G:368:VAL:CG2	1:G:375:VAL:HG12	2.26	0.54
1:G:797:ASP:OD1	1:G:798:ARG:N	2.39	0.54
1:G:1299:ALA:CA	1:G:1323:ASP:CB	2.85	0.54
1:A:1198:TYR:CE1	1:A:1236:ARG:HD3	2.43	0.54
1:B:1160:ALA:O	1:B:1161:GLN:HG2	2.06	0.54
1:C:508:ALA:HB3	1:C:509:TRP:HD1	1.73	0.54
1:C:1344:ARG:HG2	1:C:1347:ARG:NH1	2.22	0.54
1:D:415:ARG:HH22	1:D:590:ALA:CB	2.21	0.54
1:D:1122:MET:HE1	1:D:1374:LEU:HD13	1.89	0.54
1:E:404:LEU:HB2	1:E:1052:VAL:HB	1.90	0.54
1:F:521:VAL:C	1:F:523:GLU:H	2.14	0.54
1:H:1218:LYS:CE	1:I:1173:ARG:HH22	1.86	0.54
1:J:681:ASP:O	1:J:682:LEU:HD12	2.06	0.54
1:J:1064:LEU:HD12	1:J:1109:VAL:O	2.07	0.54
1:J:1300:VAL:O	1:J:1300:VAL:HG23	2.08	0.54
1:K:98:GLU:OE1	1:L:62:CYS:SG	2.65	0.54
1:L:1059:VAL:HG23	1:L:1119:VAL:CG2	2.38	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:759:GLY:CA	1:M:779:ASN:O	2.48	0.54
1:M:829:GLY:HA3	1:M:905:THR:HG21	1.88	0.54
1:M:873:ASN:CG	4:r:92:PHE:CB	2.80	0.54
1:M:1118:PRO:CG	1:M:1122:MET:CE	2.79	0.54
1:O:241:ARG:HA	1:O:292:PHE:HE1	1.73	0.54
1:O:624:PRO:HB3	1:O:882:GLY:HA3	1.88	0.54
1:P:759:GLY:O	1:P:780:ASP:C	2.50	0.54
1:P:854:PRO:HG2	1:P:862:ALA:O	2.08	0.54
2:Q:227:LEU:CD1	2:Q:228:LEU:HD11	2.24	0.54
2:R:106:VAL:HG12	2:R:107:ASP:H	1.72	0.54
2:X:236:TYR:O	2:X:238:ASN:N	2.40	0.54
3:Y:300:LEU:HG	3:Y:332:SER:CA	2.38	0.54
2:a:133:LEU:N	2:a:133:LEU:HD13	2.21	0.54
2:c:117:VAL:HG23	2:c:119:PRO:HD2	1.90	0.54
3:e:139:ASP:O	3:e:141:PRO:N	2.40	0.54
1:G:409:PHE:CE2	1:G:415:ARG:NE	2.74	0.54
1:G:820:PHE:HD1	1:G:1017:GLU:HG2	1.71	0.54
1:A:292:PHE:HB3	1:A:293:LEU:HD12	1.90	0.54
1:A:370:ILE:CD1	1:A:375:VAL:HG21	2.37	0.54
1:A:1201:ARG:NH1	1:B:448:GLN:OE1	2.40	0.54
1:B:873:ASN:HD21	4:i:92:PHE:CB	2.19	0.54
1:C:264:LEU:CD2	1:C:266:HIS:CB	2.86	0.54
1:C:267:ALA:HB1	1:C:274:VAL:CA	2.36	0.54
1:D:322:MET:HE3	1:H:324:LYS:HB3	1.88	0.54
1:D:541:LEU:HD22	1:D:571:ILE:HD11	1.89	0.54
1:D:1220:GLY:O	1:D:1224:ALA:CB	2.56	0.54
1:E:146:GLU:HA	1:E:146:GLU:OE1	2.08	0.54
1:H:304:VAL:CG1	1:H:358:PRO:HG2	2.37	0.54
1:H:729:PRO:HB2	1:H:745:HIS:CE1	2.42	0.54
1:I:102:PRO:HA	1:J:65:LEU:CD2	2.37	0.54
1:I:814:TYR:O	1:I:818:PRO:HG3	2.08	0.54
1:I:840:GLN:O	1:I:842:MET:HB3	2.07	0.54
1:I:1215:ALA:CB	1:I:1222:VAL:CG2	2.81	0.54
1:J:465:SER:OG	1:J:1252:TYR:CE1	2.41	0.54
1:J:624:PRO:HB3	1:J:882:GLY:HA3	1.89	0.54
1:J:903:GLU:HG2	1:J:904:ARG:N	2.23	0.54
1:J:946:ASP:O	1:J:947:HIS:ND1	2.40	0.54
1:K:43:ARG:O	1:K:44:SER:HB3	2.06	0.54
1:K:738:ASP:HB3	1:K:787:THR:CG2	2.37	0.54
1:K:1054:ARG:NH1	1:K:1122:MET:C	2.65	0.54
1:L:544:HIS:CD2	1:L:547:PHE:HD2	2.26	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:829:GLY:HA3	1:L:905:THR:HG21	1.89	0.54
1:M:760:GLY:H	1:M:780:ASP:C	2.11	0.54
1:N:445:LYS:HD3	1:N:1120:THR:O	2.07	0.54
1:N:1195:ASP:OD1	1:N:1195:ASP:N	2.25	0.54
1:O:392:TYR:OH	1:O:394:LEU:HD12	2.08	0.54
1:O:778:ARG:NH2	1:O:780:ASP:OD2	2.40	0.54
1:O:782:ARG:O	1:O:783:LEU:HD12	2.06	0.54
1:P:201:MET:O	1:P:205:LEU:HD23	2.07	0.54
2:Q:276:VAL:HG11	2:R:154:ARG:HE	1.72	0.54
2:R:246:VAL:O	2:R:249:GLU:N	2.40	0.54
2:R:285:LEU:CD2	2:R:288:ILE:HD11	2.37	0.54
2:T:117:VAL:HG23	2:T:119:PRO:HD2	1.90	0.54
2:W:153:ALA:O	2:W:156:VAL:CG1	2.54	0.54
3:Y:141:PRO:O	3:Y:144:ALA:HB3	2.06	0.54
2:Z:114:VAL:HG23	2:Z:145:THR:HG22	1.88	0.54
2:Z:218:THR:OG1	2:a:246:VAL:CG1	2.55	0.54
2:a:19:PRO:O	2:a:22:ALA:HB3	2.06	0.54
3:b:242:HIS:CD2	3:b:243:GLU:H	2.26	0.54
3:b:288:ILE:H	3:b:288:ILE:HD12	1.73	0.54
2:c:25:GLN:HA	2:c:78:VAL:HG21	1.90	0.54
2:c:37:ILE:HG21	2:c:90:LEU:CD1	2.37	0.54
4:g:9:PRO:HB3	4:g:18:ARG:CA	2.37	0.54
4:p:46:THR:CB	4:p:50:VAL:CG1	2.85	0.54
4:p:68:HIS:O	4:p:69:ALA:HB3	2.06	0.54
4:p:77:PRO:CD	4:p:80:ALA:HB2	2.29	0.54
4:q:24:GLY:H	4:q:27:LEU:HB2	1.73	0.54
4:r:24:GLY:H	4:r:27:LEU:HB2	1.73	0.54
1:G:294:LYS:O	1:G:295:VAL:HG22	2.07	0.54
1:A:252:THR:HG21	1:A:370:ILE:HB	1.88	0.54
1:A:357:ALA:C	1:A:359:GLN:OE1	2.48	0.54
1:A:454:MET:C	1:A:456:ASN:N	2.63	0.54
1:A:956:TYR:OH	1:A:958:LEU:HD23	2.08	0.54
1:A:1160:ALA:HB2	1:A:1172:PRO:HG3	1.90	0.54
1:B:656:TRP:CD2	1:B:686:CYS:HB3	2.43	0.54
1:C:628:TYR:HB3	1:C:955:PHE:CE2	2.43	0.54
1:C:844:VAL:CG1	4:i:68:HIS:CB	2.85	0.54
1:C:897:LEU:O	1:C:901:MET:HE2	2.08	0.54
1:C:903:GLU:HG2	1:C:904:ARG:HG2	1.89	0.54
1:C:946:ASP:C	1:C:947:HIS:CD2	2.85	0.54
1:D:94:ARG:HH11	1:I:9:PRO:HG2	1.62	0.54
1:D:124:ILE:HD11	1:E:58:LEU:HD12	1.89	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:187:VAL:O	1:D:191:LYS:HG2	2.07	0.54
1:D:495:ALA:O	1:D:504:ARG:NH1	2.40	0.54
1:D:589:VAL:HG23	1:D:1009:HIS:HD2	1.72	0.54
1:D:813:TYR:O	1:D:818:PRO:HD3	2.07	0.54
1:D:981:ARG:HH22	1:E:802:PRO:HB3	1.73	0.54
1:D:985:ARG:HD2	1:E:705:ASP:OD2	2.08	0.54
1:F:520:TRP:H	1:F:520:TRP:CD1	2.25	0.54
1:H:241:ARG:HH22	1:H:294:LYS:HE3	1.72	0.54
1:H:1205:PRO:HD2	1:H:1276:PHE:CD2	2.42	0.54
1:H:1237:PRO:HB2	1:I:1156:ARG:HH22	1.70	0.54
1:I:77:VAL:CG1	1:I:277:VAL:HG22	2.38	0.54
1:I:816:LEU:O	1:I:819:ALA:HB3	2.08	0.54
1:J:646:ARG:CZ	4:o:78:MET:CB	2.86	0.54
1:L:836:TYR:CD1	1:L:897:LEU:HD13	2.42	0.54
1:L:1131:LEU:HD23	1:L:1159:PRO:HG3	1.90	0.54
1:L:1348:ASP:HB3	1:L:1352:HIS:HE1	1.72	0.54
1:M:757:ASP:O	1:M:758:ALA:HB3	2.06	0.54
1:M:903:GLU:HG2	1:M:904:ARG:HG2	1.89	0.54
1:N:301:ASP:OD1	1:N:301:ASP:N	2.39	0.54
1:N:521:VAL:O	1:N:524:CYS:N	2.36	0.54
1:N:1078:LEU:CD1	3:V:86:ALA:CB	2.86	0.54
1:N:1214:TYR:HB2	1:N:1225:LEU:HD11	1.90	0.54
1:O:778:ARG:HD2	1:O:903:GLU:HG3	1.87	0.54
1:O:811:ILE:O	1:O:815:VAL:HB	2.08	0.54
1:O:1059:VAL:O	1:O:1116:ARG:N	2.35	0.54
1:O:1206:ARG:NH2	1:O:1208:ARG:O	2.41	0.54
1:O:1241:THR:HG21	1:O:1247:SER:OG	2.07	0.54
1:O:1299:ALA:O	1:O:1321:VAL:HG12	2.06	0.54
1:P:776:PHE:HD1	1:P:903:GLU:HA	1.71	0.54
2:Q:92:LEU:HD12	2:Q:92:LEU:O	2.08	0.54
2:Q:203:ARG:HH22	2:Q:207:LEU:HD11	1.72	0.54
3:V:292:ALA:HB1	3:V:295:ASP:N	2.19	0.54
2:W:10:ILE:HB	2:W:83:ILE:HB	1.89	0.54
2:W:180:TYR:CZ	2:W:185:ARG:CB	2.90	0.54
2:X:17:SER:O	2:X:18:ARG:C	2.48	0.54
3:Y:37:LEU:C	3:Y:39:PRO:HD3	2.33	0.54
3:Y:328:TYR:HH	3:Y:347:PHE:HZ	1.54	0.54
2:Z:298:CYS:HB3	3:b:109:HIS:CD2	2.43	0.54
2:a:28:GLU:HA	2:a:75:ILE:CG2	2.37	0.54
2:a:74:VAL:CG2	2:a:100:LEU:HD12	2.33	0.54
2:a:106:VAL:HG12	2:a:107:ASP:H	1.72	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:b:275:HIS:CD2	3:b:281:ARG:H	2.24	0.54
2:c:92:LEU:HD12	2:c:92:LEU:O	2.08	0.54
2:c:228:LEU:HG	2:c:238:ASN:HA	1.89	0.54
3:e:311:TYR:OH	3:e:336:PRO:HD3	2.06	0.54
4:k:24:GLY:H	4:k:27:LEU:HB2	1.73	0.54
4:t:46:THR:CB	4:t:50:VAL:CG1	2.85	0.54
1:G:1299:ALA:CB	1:G:1323:ASP:HB2	2.37	0.54
1:A:467:MET:HE1	1:A:575:TRP:CE2	2.42	0.54
1:A:618:PHE:HA	1:A:940:MET:HB3	1.89	0.54
1:A:1252:TYR:O	1:A:1252:TYR:CD1	2.60	0.54
1:B:1082:ARG:HA	1:B:1091:PHE:H	1.72	0.54
1:C:696:HIS:HE1	1:C:1021:THR:HG21	1.72	0.54
1:D:738:ASP:HB3	1:D:787:THR:OG1	2.08	0.54
1:D:757:ASP:O	1:D:758:ALA:HB3	2.08	0.54
1:D:1160:ALA:O	1:D:1161:GLN:HG2	2.07	0.54
1:E:410:ASN:ND2	1:E:1358:PHE:O	2.39	0.54
1:E:1301:SER:HB3	1:E:1321:VAL:CG1	2.38	0.54
1:F:1118:PRO:HB3	1:F:1122:MET:CE	2.37	0.54
1:I:124:ILE:CD1	1:I:1100:VAL:HG23	2.33	0.54
1:J:23:ILE:HD11	1:K:97:PHE:HD1	1.72	0.54
1:J:77:VAL:HG22	1:J:1068:ARG:O	2.07	0.54
1:J:285:LYS:HG3	1:J:377:LEU:HG	1.89	0.54
1:J:304:VAL:CG2	1:J:358:PRO:HG3	2.11	0.54
1:J:501:MET:HE2	1:J:958:LEU:HD11	1.90	0.54
1:J:726:MET:SD	1:J:814:TYR:HB2	2.48	0.54
1:J:729:PRO:O	1:J:745:HIS:CD2	2.61	0.54
1:J:1075:LEU:HD12	1:J:1095:GLN:NE2	2.22	0.54
1:L:90:MET:HE3	1:L:92:GLU:O	2.07	0.54
1:L:646:ARG:NH2	4:q:78:MET:CB	2.70	0.54
1:M:302:VAL:N	1:M:303:PRO:HD3	2.23	0.54
1:M:888:GLY:HA3	4:f:69:ALA:HB2	1.90	0.54
1:M:1029:PHE:HB3	1:M:1039:GLN:NE2	2.21	0.54
1:M:1157:LEU:HD21	1:M:1309:VAL:HG11	1.90	0.54
1:N:189:LEU:CD1	1:N:1064:LEU:HD23	2.31	0.54
1:N:236:LYS:NZ	1:N:1370:LYS:O	2.40	0.54
1:N:1206:ARG:CZ	1:N:1210:ALA:HB2	2.34	0.54
1:O:740:ASP:OD1	1:O:785:HIS:CE1	2.61	0.54
1:O:947:HIS:O	4:t:103:VAL:HA	2.07	0.54
2:Q:92:LEU:HD12	2:Q:93:THR:O	2.07	0.54
2:Q:120:VAL:HG13	2:Q:121:PHE:CD2	2.43	0.54
2:Q:189:VAL:HG13	2:Q:195:LEU:HD11	1.88	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R:15:GLY:O	2:R:16:ILE:HG22	2.07	0.54
3:S:458:ARG:N	3:S:459:PRO:HD3	2.22	0.54
2:U:102:ASN:ND2	2:U:308:SER:HA	2.23	0.54
3:V:166:GLU:O	3:V:167:ALA:HB3	2.08	0.54
2:W:203:ARG:HH22	2:W:207:LEU:HD11	1.72	0.54
2:Z:222:THR:HG21	2:a:246:VAL:CG2	2.38	0.54
2:a:92:LEU:HD22	2:a:97:THR:HB	1.90	0.54
3:b:210:HIS:CD2	3:b:214:ASN:ND2	2.73	0.54
3:e:437:HIS:HB2	3:e:449:VAL:HG12	1.86	0.54
4:j:18:ARG:HA	4:j:56:GLY:O	2.07	0.54
4:l:24:GLY:H	4:l:27:LEU:HB2	1.73	0.54
4:m:24:GLY:H	4:m:27:LEU:HB2	1.73	0.54
4:n:46:THR:CB	4:n:50:VAL:CG1	2.85	0.54
4:p:3:ALA:HB2	4:p:38:ASN:OD1	2.07	0.54
4:t:24:GLY:H	4:t:27:LEU:HB2	1.73	0.54
1:G:998:TYR:O	1:G:1003:ARG:NH2	2.38	0.54
1:G:1286:HIS:NE2	1:G:1292:LEU:HD23	2.22	0.54
1:A:1202:PRO:O	1:A:1330:GLU:HB3	2.07	0.54
1:B:18:VAL:HG21	1:B:24:LEU:HD21	1.90	0.54
1:B:83:LYS:HE3	1:B:305:THR:CB	2.37	0.54
1:B:200:PRO:HB2	1:B:223:LEU:HD13	1.90	0.54
1:B:861:PRO:HA	1:B:866:HIS:CD2	2.42	0.54
1:B:1166:PHE:CD2	3:S:141:PRO:HG2	2.43	0.54
1:C:184:MET:HA	1:C:1073:TYR:OH	2.08	0.54
1:C:396:GLY:N	1:C:1060:THR:O	2.40	0.54
1:C:804:ASP:O	1:C:807:VAL:N	2.40	0.54
1:C:1103:GLY:HA3	1:C:1107:THR:HG21	1.89	0.54
1:D:836:TYR:CD1	1:D:897:LEU:HD13	2.40	0.54
1:D:1157:LEU:HD21	1:D:1309:VAL:HG11	1.90	0.54
1:F:732:LEU:HD23	1:F:745:HIS:NE2	2.23	0.54
1:F:884:VAL:HG12	1:F:886:VAL:HG23	1.90	0.54
1:F:1115:VAL:HG23	1:F:1372:LEU:HD13	1.89	0.54
1:H:696:HIS:HE1	1:H:1021:THR:HG21	1.73	0.54
1:I:68:VAL:O	1:I:68:VAL:HG23	2.06	0.54
1:I:118:ASN:HB3	1:L:39:PHE:CE2	2.43	0.54
1:I:675:VAL:HA	1:I:687:MET:HE1	1.89	0.54
1:J:70:PHE:HD2	1:J:306:TYR:HH	1.55	0.54
1:J:70:PHE:HZ	1:J:79:CYS:SG	2.26	0.54
1:J:125:ASP:O	1:J:1098:GLY:HA2	2.06	0.54
1:J:1355:GLU:CA	1:J:1362:LEU:HB3	2.33	0.54
1:K:90:MET:HG2	1:K:91:ASN:N	2.23	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:1128:ASN:ND2	1:K:1158:GLY:HA2	2.23	0.54
1:L:290:GLN:C	1:L:294:LYS:HG2	2.30	0.54
1:L:1329:GLN:C	1:L:1330:GLU:HG3	2.33	0.54
1:M:47:ASN:ND2	3:Y:272:GLU:O	2.41	0.54
1:M:142:LEU:HD13	1:M:147:ALA:HB3	1.90	0.54
1:M:817:VAL:HG11	1:M:938:LEU:HD21	1.90	0.54
1:O:316:LEU:O	1:O:320:LEU:HG	2.08	0.54
1:P:425:PRO:C	1:P:426:ALA:O	2.44	0.54
3:S:292:ALA:HB1	3:S:294:VAL:HB	1.89	0.54
2:W:92:LEU:HD12	2:W:93:THR:O	2.07	0.54
2:X:14:SER:OG	2:X:15:GLY:N	2.33	0.54
2:X:236:TYR:O	2:X:237:VAL:HB	2.06	0.54
3:Y:331:LYS:HZ3	3:Y:434:ARG:HD2	1.72	0.54
3:Y:434:ARG:HH22	3:Y:436:LEU:HG	1.73	0.54
2:Z:16:ILE:HG22	2:Z:133:LEU:HD23	1.88	0.54
2:Z:92:LEU:HD12	2:Z:92:LEU:O	2.08	0.54
2:Z:276:VAL:HG21	2:a:176:LEU:HD22	1.90	0.54
2:a:242:GLN:O	2:a:245:SER:HB2	2.06	0.54
2:c:182:ASN:HA	3:e:138:THR:HG21	1.90	0.54
4:h:46:THR:CB	4:h:50:VAL:CG1	2.85	0.54
4:k:46:THR:CB	4:k:50:VAL:CG1	2.85	0.54
4:l:1:MET:N	4:l:5:GLN:HB3	2.21	0.54
4:m:46:THR:CB	4:m:50:VAL:CG1	2.85	0.54
4:s:3:ALA:HB2	4:s:38:ASN:OD1	2.07	0.54
4:t:79:PHE:CB	4:t:88:LEU:CD1	2.86	0.54
1:G:153:ILE:HG22	1:G:157:ARG:HB3	1.88	0.54
1:G:193:PRO:HB3	1:G:1293:ILE:HD12	1.89	0.54
1:G:293:LEU:CD2	1:G:370:ILE:HD11	2.38	0.54
1:G:510:ARG:HG3	1:G:980:LEU:HD11	1.88	0.54
1:G:756:ILE:HD11	1:G:906:THR:HG22	1.89	0.54
1:G:911:SER:HB3	1:G:929:PHE:CD1	2.43	0.54
1:G:1161:GLN:HG2	2:R:180:TYR:HE1	1.72	0.54
1:G:1270:LEU:HD12	1:G:1271:SER:H	1.73	0.54
1:A:139:ALA:O	1:A:143:LEU:HD12	2.07	0.54
1:A:198:LEU:HD13	1:A:1109:VAL:HG12	1.90	0.54
1:A:1354:ARG:HH22	1:A:1357:HIS:CD2	2.23	0.54
1:B:318:THR:HG22	1:B:324:LYS:O	2.08	0.54
1:B:1054:ARG:NH1	1:B:1123:GLY:N	2.56	0.54
1:C:197:LEU:HD21	1:C:1328:PHE:HZ	1.73	0.54
1:C:737:TRP:CZ3	1:C:935:ALA:HB1	2.42	0.54
1:C:766:ALA:HB3	1:C:784:LEU:HD23	1.86	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:201:MET:HG3	1:E:205:LEU:CD2	2.38	0.54
1:E:586:LEU:HD23	1:E:1245:TRP:CZ2	2.43	0.54
1:E:618:PHE:HA	1:E:940:MET:HB3	1.90	0.54
1:E:681:ASP:O	1:E:682:LEU:HD12	2.08	0.54
1:F:532:MET:HB2	1:F:534:PRO:CD	2.38	0.54
1:F:811:ILE:O	1:F:815:VAL:HB	2.08	0.54
1:F:1218:LYS:CE	1:F:1218:LYS:CA	2.86	0.54
1:H:439:GLN:NE2	1:H:451:ARG:HH21	2.05	0.54
1:H:871:VAL:HA	4:n:107:LYS:HZ3	1.73	0.54
1:H:1274:PHE:CD1	1:H:1274:PHE:C	2.86	0.54
1:I:269:THR:HG23	1:I:374:LEU:CD2	2.33	0.54
1:J:77:VAL:O	1:J:78:ALA:HB3	2.08	0.54
1:J:577:VAL:HG12	1:J:578:VAL:HG13	1.89	0.54
1:K:584:LEU:HD22	1:K:589:VAL:HG23	1.89	0.54
1:K:707:PHE:HA	1:K:1042:THR:HG21	1.89	0.54
1:K:739:CYS:O	1:K:743:MET:HG3	2.08	0.54
1:L:274:VAL:HG22	1:L:374:LEU:CG	2.37	0.54
1:L:304:VAL:CG2	1:L:305:THR:N	2.71	0.54
1:N:784:LEU:HD21	1:N:786:ASN:ND2	2.22	0.54
1:N:1347:ARG:O	1:N:1348:ASP:HB3	2.08	0.54
1:O:33:ARG:HG2	1:O:34:ARG:N	2.23	0.54
1:O:739:CYS:CA	1:O:785:HIS:ND1	2.71	0.54
1:O:756:ILE:HD12	1:O:908:LEU:HD13	1.90	0.54
1:O:1265:GLY:O	1:O:1266:ALA:HB3	2.08	0.54
1:P:534:PRO:O	1:P:536:ASN:N	2.31	0.54
1:P:556:VAL:HG21	1:P:565:PRO:HD2	1.89	0.54
2:U:13:PRO:O	2:U:133:LEU:CD1	2.55	0.54
2:U:285:LEU:CD2	2:U:288:ILE:HD11	2.37	0.54
2:W:25:GLN:HA	2:W:78:VAL:HG21	1.90	0.54
2:Z:37:ILE:HG21	2:Z:90:LEU:CD1	2.37	0.54
2:Z:112:ASP:HA	2:Z:296:ARG:HA	1.90	0.54
2:a:68:ARG:HH22	2:a:288:ILE:C	2.12	0.54
3:b:189:PHE:CD2	3:b:189:PHE:C	2.85	0.54
2:c:203:ARG:HH22	2:c:207:LEU:HD11	1.72	0.54
3:e:39:PRO:HB2	3:e:40:PRO:HA	1.88	0.54
4:i:24:GLY:H	4:i:27:LEU:HB2	1.73	0.54
4:m:91:SER:O	4:m:102:VAL:CB	2.56	0.54
4:p:24:GLY:H	4:p:27:LEU:HB2	1.73	0.54
1:G:302:VAL:CG2	1:G:303:PRO:HD2	2.34	0.54
1:G:1279:ALA:HA	1:G:1282:ILE:HB	1.90	0.54
1:A:224:LYS:NZ	1:A:1330:GLU:OE1	2.40	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:227:PHE:O	1:A:231:SER:OG	2.24	0.54
1:A:527:THR:HG21	1:A:1193:ALA:HB1	1.89	0.54
1:A:544:HIS:ND1	1:A:1252:TYR:CG	2.76	0.54
1:A:864:PRO:HG3	1:A:888:GLY:HA2	1.89	0.54
1:A:915:ASP:OD1	1:A:918:ALA:HB3	2.08	0.54
1:A:985:ARG:HD2	1:B:705:ASP:OD2	2.08	0.54
1:A:1201:ARG:HH11	1:B:448:GLN:HB2	1.73	0.54
1:A:1287:ARG:HH11	1:A:1287:ARG:CG	2.17	0.54
1:C:201:MET:HE3	1:C:205:LEU:HD11	1.89	0.54
1:D:730:ALA:CB	1:D:750:ARG:HH12	2.21	0.54
1:D:1332:TYR:HB3	1:D:1366:ALA:O	2.08	0.54
1:F:821:SER:O	1:F:822:ARG:C	2.51	0.54
1:F:836:TYR:O	1:F:840:GLN:HG2	2.07	0.54
1:F:1265:GLY:O	1:F:1266:ALA:HB2	2.08	0.54
1:H:499:ALA:HB1	1:H:831:ARG:HH11	1.73	0.54
1:H:880:HIS:O	1:H:881:ASN:C	2.47	0.54
1:I:842:MET:HE1	4:n:61:LEU:HD11	1.53	0.54
1:I:1202:PRO:C	1:I:1331:ALA:O	2.51	0.54
1:J:267:ALA:O	1:J:268:ASP:C	2.47	0.54
1:J:280:THR:HA	1:J:1063:VAL:CG1	2.24	0.54
1:J:400:LEU:HD21	1:J:1368:PRO:CB	2.37	0.54
1:J:437:PRO:HG3	1:J:1359:THR:O	2.08	0.54
1:K:263:ARG:O	1:K:358:PRO:HG2	2.07	0.54
1:K:410:ASN:ND2	1:K:1358:PHE:O	2.41	0.54
1:K:803:ALA:O	1:K:806:THR:CG2	2.56	0.54
1:L:797:ASP:OD1	1:L:798:ARG:N	2.38	0.54
1:L:1125:LEU:HD12	1:L:1126:PRO:HD2	1.89	0.54
1:L:1319:GLU:O	1:L:1319:GLU:HG3	2.07	0.54
1:M:299:GLU:O	1:M:364:ARG:HD2	2.08	0.54
1:N:534:PRO:CG	1:N:1230:GLY:C	2.81	0.54
1:N:539:LEU:C	1:N:541:LEU:N	2.65	0.54
1:N:821:SER:O	1:N:823:GLY:N	2.40	0.54
1:N:842:MET:CG	4:r:61:LEU:CD2	2.86	0.54
1:N:1106:TYR:OH	1:N:1293:ILE:HD11	2.08	0.54
1:O:233:PHE:CE2	1:O:244:ILE:HD13	2.43	0.54
1:O:1304:THR:HG21	1:O:1314:PRO:HD3	1.90	0.54
1:O:1354:ARG:HH22	1:O:1357:HIS:CD2	2.25	0.54
1:P:1221:ASP:O	1:P:1222:VAL:C	2.47	0.54
2:T:120:VAL:HG13	2:T:121:PHE:CD2	2.43	0.54
2:T:227:LEU:HD13	2:T:228:LEU:CD1	2.00	0.54
3:V:242:HIS:HD2	3:V:243:GLU:H	1.56	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:W:276:VAL:HG21	2:X:176:LEU:HD22	1.90	0.54
2:a:74:VAL:HG11	2:a:100:LEU:HA	1.90	0.54
2:a:74:VAL:O	2:a:85:ALA:CA	2.56	0.54
3:e:130:LEU:HB2	3:e:187:PHE:HB2	1.90	0.54
4:i:3:ALA:C	4:i:40:TYR:CB	2.74	0.54
4:j:46:THR:CB	4:j:50:VAL:CG1	2.85	0.54
4:n:3:ALA:C	4:n:40:TYR:CB	2.74	0.54
1:G:367:LEU:HB3	1:G:374:LEU:HD21	1.89	0.53
1:G:1198:TYR:C	1:G:1198:TYR:CD1	2.86	0.53
1:A:317:VAL:HB	1:A:336:LEU:HD13	1.90	0.53
1:A:458:VAL:O	1:A:462:CYS:HB2	2.08	0.53
1:B:737:TRP:CZ3	1:B:935:ALA:HB1	2.44	0.53
1:C:244:ILE:HG13	1:C:292:PHE:CZ	2.43	0.53
1:E:739:CYS:HB2	1:E:785:HIS:ND1	2.23	0.53
1:F:701:ALA:O	1:F:727:ARG:NH2	2.41	0.53
1:F:842:MET:SD	4:l:61:LEU:HD22	2.49	0.53
1:I:86:GLU:N	1:I:86:GLU:OE1	2.41	0.53
1:I:1070:SER:OG	1:I:1107:THR:HG21	2.08	0.53
1:J:432:PRO:C	1:J:434:ALA:N	2.64	0.53
1:J:785:HIS:NE2	1:J:800:HIS:CD2	2.76	0.53
1:J:841:ASN:O	1:J:874:THR:OG1	2.22	0.53
1:K:744:ARG:NH2	1:K:803:ALA:HB2	2.23	0.53
1:K:1059:VAL:HG23	1:K:1119:VAL:HG21	1.90	0.53
1:L:512:ARG:NH2	1:L:563:VAL:HG11	2.24	0.53
1:M:204:TYR:OH	1:M:222:GLU:OE1	2.17	0.53
1:M:527:THR:HG21	1:M:1193:ALA:O	2.07	0.53
1:M:841:ASN:CB	4:f:57:GLN:NE2	2.71	0.53
1:N:299:GLU:HA	1:N:365:ALA:O	2.09	0.53
1:O:295:VAL:HG12	1:O:295:VAL:O	2.06	0.53
1:O:497:PRO:HG2	1:O:500:ASP:OD1	2.08	0.53
1:O:1080:VAL:HG22	1:O:1093:LEU:HD23	1.89	0.53
1:P:148:LEU:HD22	1:P:154:SER:C	2.31	0.53
1:P:194:PRO:CG	1:P:197:LEU:HD12	2.38	0.53
2:R:32:VAL:HG13	2:R:46:VAL:HG13	1.90	0.53
3:S:130:LEU:HB2	3:S:187:PHE:HB2	1.90	0.53
2:T:25:GLN:HA	2:T:78:VAL:HG21	1.90	0.53
2:W:92:LEU:HD12	2:W:92:LEU:O	2.08	0.53
2:X:32:VAL:HG13	2:X:46:VAL:HG13	1.90	0.53
2:Z:223:LEU:CD1	2:Z:271:LEU:HB2	2.31	0.53
2:Z:276:VAL:HG11	2:a:154:ARG:HE	1.72	0.53
3:b:106:PRO:O	3:b:107:ARG:CB	2.55	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:b:215:TYR:N	3:b:215:TYR:CD1	2.73	0.53
2:c:276:VAL:HG21	2:d:176:LEU:HD22	1.90	0.53
2:d:102:ASN:ND2	2:d:308:SER:HA	2.23	0.53
3:e:138:THR:CG2	3:e:139:ASP:N	2.71	0.53
3:e:288:ILE:HG12	3:e:457:TRP:CH2	2.42	0.53
4:r:46:THR:CB	4:r:50:VAL:CG1	2.85	0.53
1:G:418:ALA:HB3	1:G:1354:ARG:NH2	2.13	0.53
1:G:423:LEU:HG	1:G:1357:HIS:HE1	1.72	0.53
1:G:606:MET:CE	1:G:820:PHE:CZ	2.89	0.53
1:G:608:PRO:HA	1:G:611:ILE:HD12	1.90	0.53
1:A:367:LEU:HB3	1:A:374:LEU:CD1	2.22	0.53
1:B:145:GLY:HA2	1:B:148:LEU:HD13	1.89	0.53
1:C:15:ALA:O	1:C:16:ALA:HB3	2.08	0.53
1:C:310:VAL:HG23	1:C:312:ASN:ND2	2.24	0.53
1:E:13:TYR:O	1:E:14:ALA:HB3	2.07	0.53
1:E:79:CYS:HA	1:E:1071:GLU:HB3	1.89	0.53
1:E:1298:SER:O	1:E:1298:SER:OG	2.24	0.53
1:F:238:GLY:O	1:F:292:PHE:HZ	1.92	0.53
1:F:272:ARG:HD3	1:F:374:LEU:HD12	1.89	0.53
1:F:642:CYS:O	4:l:87:TRP:CB	2.57	0.53
1:H:261:VAL:O	1:H:1068:ARG:NH2	2.40	0.53
1:H:586:LEU:HD23	1:H:1245:TRP:CZ2	2.43	0.53
1:H:739:CYS:O	1:H:743:MET:HG2	2.09	0.53
1:I:380:LEU:HD12	1:I:385:TYR:CE2	2.43	0.53
1:I:728:ASP:O	1:I:810:LYS:NZ	2.41	0.53
1:I:730:ALA:CB	1:I:750:ARG:HH12	2.13	0.53
1:I:1133:ARG:O	1:I:1133:ARG:HG3	2.09	0.53
1:J:70:PHE:CD2	1:J:306:TYR:OH	2.61	0.53
1:J:71:LEU:C	1:J:76:SER:HB3	2.25	0.53
1:J:299:GLU:O	1:J:365:ALA:C	2.51	0.53
1:J:812:TYR:HA	1:J:816:LEU:CB	2.38	0.53
1:K:90:MET:HE2	1:L:56:ALA:HB2	1.89	0.53
1:K:756:ILE:HD11	1:K:908:LEU:HD13	1.88	0.53
1:K:1340:PRO:HD2	1:P:413:MET:HG2	1.89	0.53
1:L:182:ASP:O	1:L:186:HIS:ND1	2.32	0.53
1:L:299:GLU:HG2	1:L:299:GLU:O	2.08	0.53
1:M:1237:PRO:HB2	1:N:1156:ARG:CZ	2.33	0.53
1:N:1218:LYS:HE3	1:O:1173:ARG:HH22	1.72	0.53
1:O:626:VAL:CG1	1:O:878:MET:HG3	2.37	0.53
1:P:201:MET:HG3	1:P:205:LEU:HD21	1.90	0.53
1:P:340:GLN:O	1:P:341:GLU:HG3	2.08	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:833:ASP:OD1	1:P:834:ARG:N	2.41	0.53
2:Q:228:LEU:HG	2:Q:238:ASN:HA	1.89	0.53
2:R:143:LEU:HD22	2:R:147:LEU:HD22	1.89	0.53
2:T:156:VAL:HG23	2:T:206:VAL:HG22	1.90	0.53
2:U:106:VAL:HG12	2:U:107:ASP:H	1.72	0.53
3:V:161:TRP:HH2	3:V:165:LEU:CD1	2.12	0.53
3:V:288:ILE:HG12	3:V:457:TRP:CH2	2.42	0.53
2:W:71:PHE:N	2:W:71:PHE:CD1	2.76	0.53
2:W:112:ASP:HA	2:W:296:ARG:HA	1.90	0.53
2:X:106:VAL:HG12	2:X:107:ASP:H	1.72	0.53
3:Y:240:PHE:CZ	3:Y:418:THR:HG21	2.43	0.53
2:Z:117:VAL:HG23	2:Z:119:PRO:HD2	1.90	0.53
2:a:32:VAL:CG1	2:a:34:LEU:CD2	2.86	0.53
2:d:32:VAL:HG13	2:d:46:VAL:HG13	1.90	0.53
3:e:242:HIS:HD2	3:e:243:GLU:H	1.56	0.53
4:k:18:ARG:O	4:k:19:ALA:HB3	2.09	0.53
4:l:46:THR:CB	4:l:50:VAL:CG1	2.85	0.53
1:G:903:GLU:HG2	1:G:904:ARG:N	2.24	0.53
1:G:1299:ALA:HB1	1:G:1323:ASP:HB2	1.90	0.53
1:A:263:ARG:O	1:A:263:ARG:CG	2.54	0.53
1:A:454:MET:CE	1:A:1046:PRO:HD2	2.37	0.53
1:A:506:LEU:HD21	1:A:989:LEU:HD23	1.89	0.53
1:C:755:ARG:CB	1:C:755:ARG:NH1	2.72	0.53
1:C:775:ASP:OD2	1:C:778:ARG:HB3	2.09	0.53
1:D:269:THR:O	1:D:269:THR:CG2	2.54	0.53
1:D:730:ALA:HB2	1:D:750:ARG:NH1	2.21	0.53
1:D:1048:PHE:HA	1:D:1192:VAL:HG13	1.89	0.53
1:F:1119:VAL:O	1:F:1119:VAL:CG1	2.56	0.53
1:H:103:LEU:HD11	1:H:115:PRO:HA	1.91	0.53
1:H:532:MET:HG3	1:H:534:PRO:CG	2.33	0.53
1:H:638:GLU:OE2	1:H:677:TYR:OH	2.18	0.53
1:H:714:LEU:HD13	1:H:719:GLN:HE22	1.73	0.53
1:I:1259:GLY:H	1:I:1278:THR:HG23	1.72	0.53
1:I:1263:LEU:C	1:I:1265:GLY:N	2.65	0.53
1:J:189:LEU:HD12	1:J:1064:LEU:HD22	1.90	0.53
1:J:400:LEU:CD2	1:J:1368:PRO:CB	2.86	0.53
1:K:288:LEU:HD13	1:K:292:PHE:HB2	1.90	0.53
1:L:264:LEU:CD2	1:L:266:HIS:CD2	2.91	0.53
1:L:842:MET:SD	4:q:61:LEU:CD2	2.91	0.53
1:L:1155:ASN:HB2	1:L:1158:GLY:CA	2.38	0.53
1:M:1274:PHE:O	1:M:1278:THR:OG1	2.27	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:503:GLN:OE1	1:N:975:ASN:HB2	2.08	0.53
1:N:550:PHE:HE1	1:N:574:THR:HG22	1.73	0.53
1:N:867:PRO:CB	4:s:80:ALA:HB3	2.22	0.53
1:O:297:ASP:O	1:O:298:THR:OG1	2.24	0.53
1:O:1113:ALA:O	1:O:1114:THR:OG1	2.20	0.53
2:Q:147:LEU:HD13	2:Q:181:TYR:CG	2.41	0.53
2:Q:276:VAL:HG21	2:R:176:LEU:HD22	1.90	0.53
2:R:10:ILE:HB	2:R:83:ILE:HB	1.91	0.53
2:T:276:VAL:HG21	2:U:176:LEU:HD22	1.90	0.53
2:X:102:ASN:ND2	2:X:308:SER:HA	2.23	0.53
2:Z:25:GLN:HA	2:Z:78:VAL:HG21	1.90	0.53
3:b:189:PHE:CD1	3:b:215:TYR:CE2	2.92	0.53
2:c:33:PHE:CB	2:c:70:ARG:CD	2.73	0.53
2:c:161:ARG:NH2	2:c:176:LEU:HG	2.23	0.53
2:c:276:VAL:HG11	2:d:154:ARG:HE	1.72	0.53
2:d:10:ILE:HB	2:d:83:ILE:HB	1.91	0.53
2:d:161:ARG:HH11	2:d:174:PRO:HD2	1.72	0.53
2:d:237:VAL:HG12	2:d:237:VAL:O	2.08	0.53
2:d:285:LEU:CD2	2:d:288:ILE:HD11	2.37	0.53
4:h:8:ARG:CA	4:h:18:ARG:H	2.18	0.53
4:l:9:PRO:CA	4:l:17:VAL:CB	2.83	0.53
4:o:3:ALA:HB2	4:o:38:ASN:OD1	2.07	0.53
1:G:127:ARG:N	1:G:1097:ARG:O	2.40	0.53
1:G:330:ASP:O	1:G:332:VAL:N	2.41	0.53
1:G:418:ALA:HB1	1:G:1354:ARG:CZ	2.37	0.53
1:A:454:MET:HE2	1:A:1040:LEU:HD21	1.89	0.53
1:D:756:ILE:HG22	1:D:761:HIS:O	2.08	0.53
1:E:466:LEU:HD12	1:E:544:HIS:CE1	2.43	0.53
1:F:1160:ALA:O	1:F:1161:GLN:HG2	2.08	0.53
1:H:325:ALA:O	1:I:56:ALA:HA	2.08	0.53
1:H:532:MET:CG	1:H:534:PRO:HG2	2.33	0.53
1:H:620:ASP:OD1	1:I:691:ARG:NH1	2.38	0.53
1:H:1355:GLU:CD	1:I:1344:ARG:HE	2.15	0.53
1:I:81:CYS:CB	1:I:306:TYR:CE1	2.91	0.53
1:I:85:PRO:HG2	1:I:310:VAL:HG12	1.91	0.53
1:I:838:THR:HG23	4:o:94:LEU:CA	2.37	0.53
1:I:892:LEU:HG	4:n:65:GLY:HA2	1.90	0.53
1:I:945:LEU:O	1:I:947:HIS:ND1	2.42	0.53
1:J:104:ILE:HG22	1:J:105:ALA:O	2.08	0.53
1:J:182:ASP:OD1	1:J:385:TYR:OH	2.26	0.53
1:J:195:LEU:HD21	1:J:251:LEU:HA	1.91	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:466:LEU:HD23	1:J:1252:TYR:CZ	2.43	0.53
1:J:721:GLU:HB3	1:J:728:ASP:HA	1.90	0.53
1:J:787:THR:N	1:J:788:GLN:OE1	2.41	0.53
1:J:892:LEU:HD21	4:o:65:GLY:O	2.09	0.53
1:K:744:ARG:NE	1:K:803:ALA:CB	2.71	0.53
1:L:196:ALA:HB1	1:L:227:PHE:HA	1.89	0.53
1:L:347:ASN:HD21	1:M:163:GLN:CD	2.15	0.53
1:L:833:ASP:OD1	1:L:834:ARG:N	2.41	0.53
1:M:642:CYS:O	4:f:87:TRP:CB	2.57	0.53
1:N:302:VAL:HG12	1:N:362:ARG:HG2	1.89	0.53
1:N:867:PRO:HG3	4:s:78:MET:O	2.08	0.53
1:O:512:ARG:CZ	1:O:563:VAL:HG11	2.39	0.53
1:P:844:VAL:HG12	1:P:845:PRO:N	2.22	0.53
2:T:203:ARG:NH2	2:T:207:LEU:HD11	2.24	0.53
2:U:32:VAL:HG13	2:U:46:VAL:HG13	1.90	0.53
3:Y:242:HIS:CD2	3:Y:243:GLU:H	2.26	0.53
3:Y:242:HIS:HD2	3:Y:243:GLU:N	2.06	0.53
2:Z:156:VAL:HG23	2:Z:206:VAL:HG22	1.90	0.53
2:Z:218:THR:HA	2:Z:221:LEU:CG	2.38	0.53
3:b:242:HIS:HD2	3:b:243:GLU:H	1.57	0.53
3:b:435:CYS:SG	3:b:437:HIS:NE2	2.79	0.53
2:c:203:ARG:NH2	2:c:207:LEU:HD11	2.24	0.53
3:e:289:PRO:CA	3:e:450:VAL:O	2.50	0.53
4:h:1:MET:H2	4:h:5:GLN:CB	2.21	0.53
4:h:16:ASN:CB	4:h:25:LEU:HD23	2.38	0.53
4:i:46:THR:CB	4:i:50:VAL:CG1	2.85	0.53
4:l:7:HIS:CD2	4:l:51:ARG:C	2.87	0.53
4:m:1:MET:H3	4:m:5:GLN:CB	2.18	0.53
4:o:7:HIS:CD2	4:o:51:ARG:C	2.87	0.53
1:G:1236:ARG:NH2	1:G:1242:ALA:HB2	2.20	0.53
1:A:1026:ALA:HA	1:A:1029:PHE:CE2	2.43	0.53
1:B:23:ILE:HG22	1:B:23:ILE:O	2.08	0.53
1:B:522:ALA:C	1:B:524:CYS:H	2.16	0.53
1:B:726:MET:HE1	1:B:814:TYR:HB2	1.89	0.53
1:C:287:ARG:O	1:C:290:GLN:O	2.27	0.53
1:E:416:PHE:CZ	1:F:1341:ALA:HB2	2.44	0.53
1:E:534:PRO:HA	1:F:1154:GLY:HA3	1.91	0.53
1:F:293:LEU:HD22	1:F:370:ILE:CD1	2.38	0.53
1:H:301:ASP:CB	1:H:303:PRO:CG	2.87	0.53
1:H:892:LEU:CD2	4:m:65:GLY:HA2	2.39	0.53
1:I:127:ARG:HD3	1:I:183:GLN:HE21	1.73	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:279:VAL:O	1:I:394:LEU:HD21	2.08	0.53
1:J:754:CYS:SG	1:J:908:LEU:HD11	2.49	0.53
1:J:840:GLN:OE1	4:o:58:ALA:HB1	2.07	0.53
1:K:106:ARG:HD3	1:K:110:HIS:CD2	2.42	0.53
1:K:840:GLN:OE1	4:p:58:ALA:CA	2.53	0.53
1:K:920:THR:O	1:K:1139:LEU:HD11	2.09	0.53
1:L:83:LYS:HZ3	3:Y:79:THR:HA	1.73	0.53
1:L:755:ARG:HA	1:L:761:HIS:O	2.08	0.53
1:L:1216:GLY:O	1:L:1217:ASP:CB	2.51	0.53
1:M:269:THR:OG1	1:M:298:THR:CB	2.56	0.53
1:M:769:CYS:HB2	1:M:784:LEU:HD11	1.89	0.53
1:M:863:HIS:CE1	1:M:865:LEU:HB2	2.43	0.53
1:M:920:THR:HG23	1:M:1138:LEU:HD23	1.89	0.53
1:O:347:ASN:ND2	1:P:167:ARG:NE	2.57	0.53
1:O:828:ALA:N	1:O:937:VAL:O	2.41	0.53
1:O:872:ALA:H	4:t:107:LYS:HE3	1.72	0.53
1:P:180:THR:HG22	1:P:1097:ARG:NH1	2.24	0.53
1:P:201:MET:HG3	1:P:205:LEU:HD23	1.91	0.53
1:P:207:ASN:CG	1:P:208:GLY:N	2.65	0.53
1:P:1067:GLU:HB3	1:P:1107:THR:OG1	2.07	0.53
2:Q:180:TYR:CD1	2:Q:180:TYR:N	2.74	0.53
2:R:129:ARG:CZ	2:R:136:THR:CG2	2.84	0.53
3:S:288:ILE:HG12	3:S:457:TRP:CH2	2.42	0.53
2:T:112:ASP:HA	2:T:296:ARG:HA	1.90	0.53
2:T:272:TYR:CD2	2:U:161:ARG:HG3	2.43	0.53
2:U:16:ILE:HA	2:U:132:SER:HB2	1.90	0.53
3:V:243:GLU:C	3:V:244:VAL:CG2	2.82	0.53
2:W:177:ASN:HD21	2:W:189:VAL:HG21	1.69	0.53
2:X:97:THR:HG22	2:X:315:ILE:HG22	1.90	0.53
2:X:291:LEU:H	2:X:291:LEU:HD12	1.74	0.53
2:a:93:THR:CG2	2:a:316:ARG:NH2	2.57	0.53
2:a:102:ASN:ND2	2:a:308:SER:HA	2.23	0.53
2:a:237:VAL:HG12	2:a:237:VAL:O	2.08	0.53
3:b:434:ARG:HA	3:b:451:ILE:O	2.08	0.53
2:c:156:VAL:HG23	2:c:206:VAL:HG22	1.90	0.53
3:e:91:LEU:O	3:e:95:ARG:HG2	2.09	0.53
3:e:132:LEU:HD21	3:e:312:LEU:HD21	1.91	0.53
4:i:21:GLY:O	4:i:22:MET:C	2.52	0.53
4:o:46:THR:CG2	4:o:50:VAL:HG11	2.18	0.53
4:q:7:HIS:CD2	4:q:51:ARG:C	2.87	0.53
4:q:46:THR:CB	4:q:50:VAL:CG1	2.85	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:s:16:ASN:CA	4:s:20:LEU:HD12	2.00	0.53
1:G:368:VAL:HG22	1:G:375:VAL:HG13	1.87	0.53
1:A:46:GLU:H	1:A:49:LEU:HD23	1.73	0.53
1:A:487:TYR:HH	1:A:990:VAL:H	1.45	0.53
1:B:277:VAL:HB	1:B:1066:SER:HB3	1.91	0.53
1:B:408:LEU:CD1	1:B:1199:PHE:CE2	2.92	0.53
1:C:120:MET:CG	1:M:36:PHE:CD2	2.92	0.53
1:C:782:ARG:O	1:C:783:LEU:HD12	2.08	0.53
1:C:797:ASP:OD1	1:C:798:ARG:N	2.40	0.53
1:C:831:ARG:O	1:C:835:VAL:HG23	2.08	0.53
1:C:1204:ASN:HD21	1:C:1329:GLN:HE21	1.55	0.53
1:C:1222:VAL:C	1:C:1223:ILE:HG13	2.33	0.53
1:D:400:LEU:HD22	1:D:1332:TYR:CE1	2.44	0.53
1:D:842:MET:CG	4:j:61:LEU:HD21	2.33	0.53
1:E:532:MET:C	1:E:534:PRO:CD	2.82	0.53
1:E:668:TYR:HB2	1:E:812:TYR:CD2	2.44	0.53
1:E:726:MET:HE1	1:E:814:TYR:HB2	1.90	0.53
1:E:867:PRO:CB	4:l:80:ALA:HB3	2.28	0.53
1:F:194:PRO:HD2	1:F:197:LEU:HD12	1.90	0.53
1:F:961:HIS:NE2	1:F:1002:ILE:O	2.38	0.53
1:H:778:ARG:NH2	1:H:780:ASP:OD2	2.42	0.53
1:I:729:PRO:C	1:I:745:HIS:HE1	2.16	0.53
1:I:890:ALA:O	1:I:893:THR:OG1	2.15	0.53
1:I:976:PHE:CE2	1:I:981:ARG:HD2	2.44	0.53
1:I:1304:THR:HA	1:I:1319:GLU:OE2	2.08	0.53
1:I:1329:GLN:O	1:I:1330:GLU:CG	2.55	0.53
1:J:1121:ASP:O	1:J:1122:MET:HB2	2.07	0.53
1:J:1211:GLY:N	1:J:1329:GLN:HG2	2.24	0.53
1:K:340:GLN:HB2	1:L:155:LEU:HD22	1.89	0.53
1:L:326:VAL:HG22	1:M:57:LEU:HB3	1.89	0.53
1:L:544:HIS:ND1	1:L:1252:TYR:HB2	2.23	0.53
1:L:551:ALA:HA	1:L:571:ILE:HA	1.90	0.53
1:O:933:LEU:HG	1:O:960:VAL:HG11	1.91	0.53
1:O:1106:TYR:HE1	1:O:1294:VAL:CG1	2.21	0.53
1:P:532:MET:HG3	1:P:534:PRO:CG	2.39	0.53
3:S:238:HIS:HE1	3:S:416:THR:OG1	1.92	0.53
3:S:427:VAL:HG12	3:S:429:PRO:N	2.24	0.53
2:T:203:ARG:HH22	2:T:207:LEU:HD11	1.72	0.53
2:W:120:VAL:HG13	2:W:121:PHE:CD2	2.43	0.53
2:X:92:LEU:HD23	2:X:316:ARG:HG3	1.91	0.53
2:a:161:ARG:O	2:a:173:LEU:CD2	2.57	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:c:71:PHE:N	2:c:71:PHE:CD1	2.76	0.53
2:c:112:ASP:HA	2:c:296:ARG:HA	1.90	0.53
3:e:300:LEU:HD12	3:e:332:SER:HA	1.90	0.53
3:e:416:THR:OG1	3:e:417:CYS:N	2.36	0.53
4:f:7:HIS:CD2	4:f:51:ARG:C	2.87	0.53
4:m:7:HIS:CD2	4:m:51:ARG:C	2.87	0.53
4:n:7:HIS:CD2	4:n:51:ARG:C	2.87	0.53
4:t:71:ASN:CB	4:t:74:ALA:CB	2.85	0.53
1:G:871:VAL:HG12	1:G:872:ALA:N	2.24	0.53
1:G:917:GLY:C	1:G:1138:LEU:HD22	2.25	0.53
1:G:1072:ALA:HB3	1:G:1100:VAL:HG23	1.91	0.53
1:G:1077:GLN:O	1:G:1079:GLN:OE1	2.26	0.53
1:A:142:LEU:N	1:A:142:LEU:CD1	2.71	0.53
1:A:903:GLU:HG2	1:A:904:ARG:N	2.23	0.53
1:B:25:SER:CB	1:B:64:THR:HG22	2.39	0.53
1:B:297:ASP:HB2	1:B:365:ALA:O	2.09	0.53
1:B:1054:ARG:HH12	1:B:1123:GLY:N	2.07	0.53
1:B:1259:GLY:HA3	1:B:1274:PHE:HE1	1.73	0.53
1:C:235:GLY:CA	1:C:1114:THR:HG22	2.39	0.53
1:D:1314:PRO:HB2	1:D:1315:PRO:CD	2.39	0.53
1:E:99:VAL:HG23	1:F:63:ASN:ND2	2.23	0.53
1:E:1344:ARG:HA	1:E:1347:ARG:CD	2.37	0.53
1:H:266:HIS:CE1	1:H:376:PHE:CZ	2.97	0.53
1:H:268:ASP:N	1:H:274:VAL:HG23	2.23	0.53
1:H:419:HIS:ND1	1:H:419:HIS:O	2.42	0.53
1:H:903:GLU:HG2	1:H:904:ARG:N	2.24	0.53
1:I:833:ASP:OD1	1:I:834:ARG:N	2.42	0.53
1:I:1218:LYS:CD	1:J:1173:ARG:HH21	2.00	0.53
1:J:280:THR:CB	1:J:1063:VAL:HG12	2.39	0.53
1:J:1188:ILE:HG13	1:J:1257:TYR:HE2	1.73	0.53
1:J:1272:PRO:O	1:J:1276:PHE:CE1	2.61	0.53
1:K:58:LEU:HD21	1:P:90:MET:HE1	1.89	0.53
1:K:864:PRO:HG3	1:K:888:GLY:HA2	1.91	0.53
1:L:97:PHE:HE2	1:L:122:LYS:HD2	1.72	0.53
1:L:103:LEU:HD11	1:L:115:PRO:HG3	1.91	0.53
1:L:470:ASP:HA	1:L:473:VAL:HG13	1.91	0.53
1:L:543:LEU:HD23	1:L:1250:PHE:O	2.09	0.53
1:N:543:LEU:HD23	1:N:1250:PHE:O	2.08	0.53
1:N:700:LEU:O	1:N:1025:MET:HE2	2.08	0.53
1:O:472:ALA:HB2	1:O:1255:LEU:HD11	1.90	0.53
1:O:626:VAL:HG13	1:O:878:MET:HG3	1.89	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:25:GLN:HA	2:Q:78:VAL:HG21	1.90	0.53
2:Q:117:VAL:HG23	2:Q:119:PRO:HD2	1.90	0.53
2:Q:227:LEU:HD11	2:Q:228:LEU:CD1	2.11	0.53
3:S:242:HIS:CD2	3:S:243:GLU:H	2.26	0.53
2:U:97:THR:HG22	2:U:315:ILE:HG22	1.90	0.53
3:V:91:LEU:O	3:V:95:ARG:HG2	2.09	0.53
3:V:112:ARG:HH21	3:V:112:ARG:CG	2.22	0.53
3:V:339:LEU:HD23	3:V:422:PHE:CG	2.33	0.53
2:X:97:THR:O	2:X:97:THR:OG1	2.22	0.53
2:Z:223:LEU:HD21	2:Z:272:TYR:CE1	2.43	0.53
2:a:35:PRO:HA	2:a:70:ARG:HH11	1.47	0.53
3:b:148:ALA:O	3:b:149:PRO:C	2.52	0.53
3:e:242:HIS:CD2	3:e:243:GLU:H	2.25	0.53
4:h:24:GLY:H	4:h:27:LEU:HB2	1.73	0.53
4:s:46:THR:CB	4:s:50:VAL:CG1	2.85	0.53
1:G:242:GLU:HA	1:G:245:GLU:OE1	2.09	0.53
1:G:1055:GLN:HE22	1:G:1275:LYS:NZ	2.06	0.53
1:G:1205:PRO:HD2	1:G:1276:PHE:CD2	2.44	0.53
1:A:90:MET:HB2	1:B:32:HIS:O	2.09	0.53
1:A:310:VAL:CG2	1:B:58:LEU:HD23	2.37	0.53
1:A:840:GLN:OE1	4:g:58:ALA:HB2	2.07	0.53
1:B:205:LEU:HD21	1:B:1106:TYR:CE2	2.44	0.53
1:B:381:GLU:O	1:B:386:ALA:N	2.29	0.53
1:C:13:TYR:O	1:C:17:MET:HE3	2.09	0.53
1:C:671:VAL:HG13	1:C:690:TYR:HD1	1.74	0.53
1:D:94:ARG:HH12	1:I:9:PRO:HD2	1.73	0.53
1:D:544:HIS:CD2	1:D:547:PHE:HD2	2.26	0.53
1:D:1080:VAL:CG1	1:D:1081:ALA:N	2.72	0.53
1:D:1251:SER:O	1:D:1255:LEU:HG	2.08	0.53
1:E:520:TRP:CE3	1:E:997:ASN:ND2	2.74	0.53
1:E:811:ILE:O	1:E:815:VAL:HB	2.09	0.53
1:H:304:VAL:HG12	1:H:358:PRO:HB2	1.90	0.53
1:I:486:PRO:CB	1:I:509:TRP:HH2	2.14	0.53
1:I:558:LEU:HD21	1:I:999:PHE:CZ	2.44	0.53
1:J:785:HIS:CE1	1:J:800:HIS:HD2	2.27	0.53
1:J:1062:ASN:OD1	1:J:1112:THR:HG22	2.09	0.53
1:K:1077:GLN:HG3	1:K:1078:LEU:H	1.73	0.53
1:L:1125:LEU:HD23	1:L:1182:ASP:HB3	1.90	0.53
1:M:413:MET:HG2	1:N:1340:PRO:HD2	1.82	0.53
1:N:730:ALA:HA	1:N:745:HIS:HD1	1.74	0.53
1:O:871:VAL:HA	4:t:107:LYS:HE2	1.90	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:911:SER:HB3	1:O:929:PHE:CD1	2.44	0.53
1:P:844:VAL:HG11	4:t:68:HIS:CB	2.38	0.53
2:Q:181:TYR:CD2	2:Q:182:ASN:ND2	2.76	0.53
3:S:242:HIS:HD2	3:S:243:GLU:H	1.57	0.53
3:S:313:VAL:HG22	3:S:422:PHE:HB3	1.91	0.53
2:T:71:PHE:N	2:T:71:PHE:CD1	2.76	0.53
2:T:92:LEU:HD12	2:T:92:LEU:O	2.08	0.53
3:V:350:LEU:O	3:V:350:LEU:HD12	2.08	0.53
3:V:416:THR:OG1	3:V:417:CYS:N	2.38	0.53
3:V:427:VAL:HG12	3:V:429:PRO:N	2.24	0.53
3:V:458:ARG:N	3:V:459:PRO:HD3	2.22	0.53
2:W:9:ASP:CB	2:W:82:ARG:HE	2.21	0.53
2:W:203:ARG:NH2	2:W:207:LEU:HD11	2.24	0.53
3:Y:120:CYS:O	3:Y:215:TYR:CE2	2.62	0.53
3:Y:300:LEU:CD1	3:Y:333:GLN:OE1	2.56	0.53
2:Z:71:PHE:N	2:Z:71:PHE:CD1	2.76	0.53
2:Z:203:ARG:NH2	2:Z:207:LEU:HD11	2.24	0.53
3:b:91:LEU:O	3:b:95:ARG:HG2	2.09	0.53
3:b:302:LEU:N	3:b:302:LEU:CD2	2.72	0.53
4:j:24:GLY:H	4:j:27:LEU:HB2	1.73	0.53
4:p:7:HIS:CD2	4:p:51:ARG:C	2.87	0.53
4:r:106:PRO:O	4:r:107:LYS:HB3	2.08	0.53
1:G:505:PHE:CZ	1:G:509:TRP:CD1	2.91	0.53
1:G:520:TRP:C	1:G:520:TRP:CD2	2.87	0.53
1:G:1202:PRO:HB3	1:G:1332:TYR:CD1	2.44	0.53
1:G:1259:GLY:HA3	1:G:1274:PHE:CE1	2.36	0.53
1:C:624:PRO:HB2	1:C:626:VAL:HG22	1.91	0.53
1:C:844:VAL:HG12	4:i:68:HIS:CB	2.38	0.53
1:D:77:VAL:CG2	1:D:266:HIS:ND1	2.72	0.53
1:D:202:GLN:HA	1:D:205:LEU:HD23	1.90	0.53
1:D:327:ARG:HG2	1:E:58:LEU:HA	1.90	0.53
1:D:473:VAL:O	1:D:477:ASN:HB2	2.09	0.53
1:D:530:GLN:HG3	1:D:536:ASN:ND2	2.24	0.53
1:D:953:GLU:H	1:D:953:GLU:CD	2.11	0.53
1:D:1055:GLN:HB3	1:D:1310:GLN:HE22	1.73	0.53
1:D:1290:GLU:HG3	1:I:31:SER:O	2.07	0.53
1:E:836:TYR:HA	1:E:839:LEU:HB2	1.91	0.53
1:F:527:THR:HG22	1:F:528:ALA:H	1.74	0.53
1:H:514:ALA:HA	1:H:983:LEU:HD13	1.91	0.53
1:I:466:LEU:O	1:I:467:MET:CG	2.57	0.53
1:I:536:ASN:O	1:I:537:ALA:HB3	2.09	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:1224:ALA:HB3	1:J:1175:ALA:CB	2.38	0.53
1:J:23:ILE:HD11	1:K:97:PHE:CD1	2.44	0.53
1:J:183:GLN:O	1:J:187:VAL:HG22	2.09	0.53
1:J:668:TYR:HB2	1:J:812:TYR:CE1	2.44	0.53
1:J:915:ASP:CG	1:J:1030:LYS:HZ3	2.16	0.53
1:K:302:VAL:HA	1:K:361:THR:O	2.09	0.53
1:K:626:VAL:HG13	1:K:878:MET:HG3	1.91	0.53
1:L:486:PRO:HG3	1:L:564:PRO:HG2	1.89	0.53
1:M:210:LEU:O	1:M:210:LEU:CD2	2.47	0.53
1:N:737:TRP:HZ3	1:N:935:ALA:HB1	1.72	0.53
1:N:1161:GLN:CB	1:N:1162:PRO:CD	2.84	0.53
1:O:145:GLY:HA2	1:O:148:LEU:HD23	1.90	0.53
1:O:279:VAL:HG12	1:O:394:LEU:HD11	1.89	0.53
1:O:606:MET:H	1:O:1018:ASN:HD21	1.54	0.53
1:O:914:PRO:HB3	1:O:918:ALA:HB1	1.88	0.53
1:P:728:ASP:O	1:P:810:LYS:NZ	2.42	0.53
1:P:1155:ASN:HB2	1:P:1158:GLY:HA3	1.90	0.53
3:Y:243:GLU:C	3:Y:244:VAL:CG2	2.82	0.53
2:Z:315:ILE:HD13	3:b:109:HIS:NE2	2.24	0.53
2:a:30:ARG:HD3	2:a:139:PHE:CD1	2.43	0.53
2:a:73:ALA:CB	2:a:87:PRO:CA	2.73	0.53
3:b:314:PHE:CE1	3:b:327:VAL:CG2	2.86	0.53
2:d:108:LEU:O	2:d:112:ASP:CG	2.45	0.53
3:e:243:GLU:C	3:e:244:VAL:CG2	2.82	0.53
3:e:254:TRP:N	3:e:254:TRP:CD2	2.72	0.53
4:k:7:HIS:CD2	4:k:51:ARG:C	2.87	0.53
4:r:9:PRO:C	4:r:17:VAL:CB	2.82	0.53
1:G:204:TYR:CE1	1:G:222:GLU:HG2	2.44	0.53
1:G:324:LYS:O	1:G:325:ALA:C	2.52	0.53
1:G:1221:ASP:HA	1:G:1224:ALA:HB3	1.90	0.53
1:G:1276:PHE:O	1:G:1277:PHE:CB	2.56	0.53
1:A:700:LEU:O	1:A:1025:MET:HE2	2.09	0.53
1:C:408:LEU:HD11	1:C:1199:PHE:CE2	2.44	0.53
1:C:1059:VAL:HG23	1:C:1119:VAL:HG23	1.91	0.53
1:C:1232:SER:HB2	1:C:1237:PRO:O	2.09	0.53
1:D:626:VAL:HG23	1:D:627:PHE:CD1	2.43	0.53
1:F:462:CYS:HB3	1:F:1037:TYR:CE1	2.43	0.53
1:F:742:LEU:HD21	1:F:908:LEU:HD21	1.91	0.53
1:F:1124:ASN:O	1:F:1156:ARG:NH2	2.40	0.53
1:H:302:VAL:HG12	1:H:360:THR:HG21	1.90	0.53
1:H:1354:ARG:HH22	1:H:1357:HIS:HD2	1.57	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:86:GLU:HG2	1:I:86:GLU:O	2.08	0.53
1:I:122:LYS:HZ3	1:L:35:LEU:CD1	2.17	0.53
1:I:199:LEU:HB2	1:I:200:PRO:HD3	1.91	0.53
1:I:706:ASP:O	1:I:1042:THR:HG21	2.09	0.53
1:I:1237:PRO:CB	1:J:1156:ARG:NH2	2.49	0.53
1:K:175:ALA:O	1:K:179:GLY:N	2.41	0.53
1:K:842:MET:SD	4:p:61:LEU:HD22	2.49	0.53
1:K:1208:ARG:NH2	1:K:1240:ALA:O	2.38	0.53
1:L:274:VAL:HG22	1:L:374:LEU:HG	1.91	0.53
1:L:917:GLY:O	1:L:1033:PRO:HD2	2.09	0.53
1:L:1131:LEU:CD1	1:L:1157:LEU:HD13	2.28	0.53
1:L:1182:ASP:HB2	1:L:1309:VAL:HA	1.90	0.53
1:L:1218:LYS:HZ2	2:d:184:ALA:CA	2.11	0.53
1:M:293:LEU:O	1:M:293:LEU:HD12	2.09	0.53
1:N:127:ARG:HD2	1:N:183:GLN:HE21	1.73	0.53
1:N:445:LYS:CD	1:N:1120:THR:O	2.57	0.53
1:O:642:CYS:HA	1:O:645:ALA:HB2	1.91	0.53
1:O:643:ALA:HB1	1:O:896:VAL:HG21	1.90	0.53
1:P:918:ALA:HB2	1:P:1032:SER:HB3	1.91	0.53
2:Q:71:PHE:N	2:Q:71:PHE:CD1	2.76	0.53
2:Q:203:ARG:NH2	2:Q:207:LEU:HD11	2.24	0.53
2:R:291:LEU:H	2:R:291:LEU:HD12	1.74	0.53
2:U:134:ASP:O	2:U:135:LEU:CG	2.56	0.53
3:V:140:LEU:HB2	3:V:142:HIS:ND1	2.21	0.53
2:X:237:VAL:HG12	2:X:237:VAL:O	2.08	0.53
3:Y:198:TYR:OH	3:Y:294:VAL:CB	2.55	0.53
3:Y:427:VAL:HG12	3:Y:429:PRO:N	2.24	0.53
2:Z:161:ARG:NH2	2:Z:176:LEU:HG	2.23	0.53
3:b:269:GLY:N	3:b:457:TRP:HD1	2.06	0.53
2:d:291:LEU:HD12	2:d:291:LEU:H	1.74	0.53
3:e:122:PRO:HB2	3:e:254:TRP:CB	2.39	0.53
3:e:427:VAL:HG12	3:e:429:PRO:N	2.24	0.53
4:g:7:HIS:CD2	4:g:51:ARG:C	2.87	0.53
4:g:46:THR:CB	4:g:50:VAL:CG1	2.85	0.53
4:m:8:ARG:CB	4:m:18:ARG:H	2.21	0.53
4:o:46:THR:CG2	4:o:50:VAL:HG12	2.30	0.53
4:r:7:HIS:CD2	4:r:51:ARG:C	2.87	0.53
1:A:86:GLU:HA	1:A:89:TYR:CD2	2.45	0.52
1:A:323:GLY:O	1:A:324:LYS:HB2	2.08	0.52
1:A:519:ARG:NH1	1:A:549:PHE:O	2.41	0.52
1:B:717:GLN:NE2	1:B:728:ASP:OD1	2.42	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:842:MET:N	4:h:22:MET:HE2	2.20	0.52
1:C:499:ALA:HA	1:C:956:TYR:CE2	2.44	0.52
1:C:841:ASN:O	1:C:875:VAL:N	2.35	0.52
1:C:960:VAL:HA	1:C:994:LEU:HD13	1.91	0.52
1:D:879:PHE:O	1:D:882:GLY:O	2.27	0.52
1:D:1236:ARG:NH2	1:D:1242:ALA:CA	2.67	0.52
1:E:591:PHE:CZ	1:E:1045:HIS:CD2	2.92	0.52
1:F:1211:GLY:N	1:F:1329:GLN:HG2	2.24	0.52
1:H:102:PRO:HB2	1:I:388:THR:HG22	1.90	0.52
1:H:593:ASP:OD1	1:H:1009:HIS:NE2	2.32	0.52
1:H:816:LEU:O	1:H:819:ALA:HB3	2.10	0.52
1:H:892:LEU:CG	4:m:65:GLY:HA2	2.39	0.52
1:J:295:VAL:HB	1:J:368:VAL:HG12	1.90	0.52
1:J:397:ALA:HA	1:J:1058:PHE:O	2.08	0.52
1:J:634:ILE:HA	1:J:640:VAL:HB	1.91	0.52
1:J:1053:VAL:HG23	1:J:1186:GLU:O	2.09	0.52
1:K:1080:VAL:HG22	1:K:1093:LEU:HD23	1.91	0.52
1:M:533:GLN:N	1:M:534:PRO:CD	2.72	0.52
1:M:1048:PHE:HA	1:M:1192:VAL:HG13	1.91	0.52
1:N:13:TYR:O	1:N:14:ALA:CB	2.55	0.52
1:N:321:VAL:O	1:O:12:ARG:NH2	2.43	0.52
1:N:1157:LEU:HD21	1:N:1309:VAL:HG11	1.91	0.52
1:N:1321:VAL:CG1	1:N:1322:GLU:N	2.71	0.52
1:O:263:ARG:NH1	1:O:263:ARG:HG3	2.25	0.52
1:O:776:PHE:HD2	1:O:833:ASP:HB3	1.74	0.52
1:P:200:PRO:HA	1:P:203:ARG:HH11	1.73	0.52
1:P:289:LEU:CD2	1:P:296:GLU:OE2	2.54	0.52
1:P:301:ASP:OD1	1:P:365:ALA:HB3	2.09	0.52
2:Q:112:ASP:HA	2:Q:296:ARG:HA	1.90	0.52
2:R:41:LEU:HD12	2:R:42:ALA:N	2.23	0.52
2:R:97:THR:HG22	2:R:315:ILE:HG22	1.90	0.52
3:S:242:HIS:HD2	3:S:243:GLU:N	2.06	0.52
2:T:106:VAL:HG12	2:T:305:VAL:HG13	1.83	0.52
2:U:237:VAL:HG12	2:U:237:VAL:O	2.08	0.52
2:U:291:LEU:HD12	2:U:291:LEU:H	1.74	0.52
3:V:81:ASP:C	3:V:85:GLN:HG3	2.29	0.52
3:V:275:HIS:HD2	3:V:280:GLY:C	2.18	0.52
2:W:112:ASP:HA	2:W:295:VAL:O	2.09	0.52
2:W:155:LEU:HD12	2:W:188:LEU:HD21	1.91	0.52
3:Y:331:LYS:NZ	3:Y:434:ARG:HD2	2.24	0.52
2:a:74:VAL:O	2:a:85:ALA:HA	2.08	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:a:291:LEU:HD23	3:b:337:ARG:CZ	2.39	0.52
2:c:272:TYR:HD2	2:d:161:ARG:HD3	1.74	0.52
2:d:97:THR:HG22	2:d:315:ILE:HG22	1.90	0.52
3:e:274:THR:OG1	3:e:275:HIS:N	2.38	0.52
4:h:7:HIS:CD2	4:h:51:ARG:C	2.87	0.52
4:k:104:ARG:O	4:k:106:PRO:HD3	2.08	0.52
4:n:1:MET:H2	4:n:5:GLN:CB	2.22	0.52
4:s:7:HIS:CD2	4:s:51:ARG:C	2.87	0.52
4:t:7:HIS:CD2	4:t:51:ARG:C	2.87	0.52
1:G:410:ASN:OD1	1:G:1196:ILE:HG13	2.09	0.52
1:G:1273:CYS:O	1:G:1276:PHE:O	2.27	0.52
1:A:175:ALA:O	1:A:179:GLY:N	2.41	0.52
1:A:626:VAL:HG23	1:A:627:PHE:CD1	2.44	0.52
1:A:1060:THR:HA	1:A:1115:VAL:HA	1.92	0.52
1:B:1080:VAL:CG2	1:B:1093:LEU:HG	2.31	0.52
1:C:558:LEU:HD21	1:C:999:PHE:CE1	2.44	0.52
1:D:43:ARG:HE	1:L:114:GLN:HB3	1.73	0.52
1:D:1223:ILE:O	1:D:1223:ILE:CG2	2.56	0.52
1:E:1355:GLU:CD	1:F:1344:ARG:HE	2.16	0.52
1:F:532:MET:HB2	1:F:534:PRO:HD2	1.90	0.52
1:F:765:TYR:CD1	1:F:783:LEU:HB2	2.44	0.52
1:F:1081:ALA:O	1:F:1091:PHE:HA	2.09	0.52
1:H:519:ARG:HD2	1:H:519:ARG:C	2.34	0.52
1:H:752:ARG:HB2	1:H:911:SER:OG	2.09	0.52
1:H:1218:LYS:HZ3	1:I:1173:ARG:HH21	1.44	0.52
1:I:840:GLN:HA	1:I:894:LEU:HD22	1.90	0.52
1:J:73:LEU:H	1:J:76:SER:HB3	1.74	0.52
1:J:251:LEU:HD11	1:J:1063:VAL:CG2	2.39	0.52
1:J:284:ILE:O	1:J:288:LEU:HD23	2.09	0.52
1:J:377:LEU:C	1:J:378:GLU:HG3	2.32	0.52
1:K:756:ILE:HD12	1:K:908:LEU:HD13	1.90	0.52
1:K:841:ASN:CB	4:p:57:GLN:NE2	2.72	0.52
1:L:277:VAL:HG12	1:L:378:GLU:OE1	2.09	0.52
1:N:827:THR:HG21	1:N:960:VAL:HG22	1.90	0.52
1:O:289:LEU:HD12	1:O:294:LYS:HA	1.91	0.52
1:O:847:ILE:HG23	4:s:71:ASN:HA	1.91	0.52
1:P:241:ARG:HG3	1:P:292:PHE:CE1	2.44	0.52
1:P:1342:LEU:O	1:P:1345:SER:OG	2.21	0.52
2:R:13:PRO:HD3	2:R:43:LEU:CB	2.38	0.52
3:S:211:ILE:HG12	3:S:215:TYR:CE1	2.44	0.52
3:S:316:TYR:HA	3:S:324:LEU:O	2.09	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:V:242:HIS:HD2	3:V:243:GLU:N	2.06	0.52
2:W:124:GLN:CA	2:W:124:GLN:NE2	2.72	0.52
2:X:117:VAL:HG12	2:X:118:PRO:O	2.09	0.52
2:c:220:ILE:HD12	2:d:209:MET:HB2	1.92	0.52
3:e:318:GLN:OE1	3:e:352:ILE:CB	2.58	0.52
4:g:1:MET:H3	4:g:5:GLN:CB	2.15	0.52
4:i:7:HIS:CD2	4:i:51:ARG:C	2.87	0.52
1:G:263:ARG:NH1	1:G:354:LEU:HD11	2.25	0.52
1:G:522:ALA:C	1:G:524:CYS:H	2.07	0.52
1:G:536:ASN:O	1:G:537:ALA:C	2.50	0.52
1:G:819:ALA:C	1:G:822:ARG:HD2	2.32	0.52
1:G:1169:ALA:HB3	1:G:1268:PRO:HG3	1.91	0.52
1:A:372:ASP:O	1:A:373:ARG:HG2	2.08	0.52
1:A:1215:ALA:HB3	1:A:1287:ARG:HH11	1.70	0.52
1:B:263:ARG:HH22	1:B:307:GLY:H	1.58	0.52
1:B:586:LEU:HD23	1:B:1245:TRP:CZ2	2.45	0.52
1:B:956:TYR:OH	1:B:958:LEU:CD1	2.48	0.52
1:B:1080:VAL:HG13	1:B:1092:THR:N	2.24	0.52
1:B:1115:VAL:HB	1:B:1374:LEU:CD2	2.36	0.52
1:C:108:GLY:O	2:X:40:GLN:CG	2.57	0.52
1:D:265:THR:H	1:D:304:VAL:HG11	1.73	0.52
1:D:270:ARG:NH2	1:D:298:THR:CG2	2.54	0.52
1:F:696:HIS:HE1	1:F:1021:THR:HG21	1.74	0.52
1:F:836:TYR:HD1	1:F:839:LEU:HD12	1.74	0.52
1:H:417:ALA:HB2	1:H:1358:PHE:CZ	2.39	0.52
1:J:724:HIS:CE1	1:J:1025:MET:O	2.61	0.52
1:J:726:MET:HG3	1:J:815:VAL:CG2	2.39	0.52
1:J:815:VAL:HG11	1:J:1025:MET:HG2	1.91	0.52
1:J:1092:THR:O	1:J:1092:THR:HG23	2.09	0.52
1:J:1129:PHE:CE2	1:J:1256:LEU:HD13	2.45	0.52
1:K:233:PHE:HZ	1:K:243:ALA:HB1	1.75	0.52
1:K:544:HIS:HD2	1:K:546:ALA:H	1.56	0.52
1:L:87:LEU:O	1:L:88:ALA:HB2	2.09	0.52
1:L:268:ASP:CB	1:L:301:ASP:CB	2.84	0.52
1:L:304:VAL:HG23	1:L:358:PRO:HB2	1.91	0.52
1:L:1083:HIS:ND1	2:W:300:PHE:HE2	2.07	0.52
1:M:733:PRO:HG2	1:M:736:VAL:HG22	1.91	0.52
1:N:281:THR:O	1:N:282:ALA:C	2.53	0.52
1:N:1259:GLY:HA3	1:N:1274:PHE:CE1	2.45	0.52
1:P:558:LEU:CD1	1:P:999:PHE:CE2	2.93	0.52
1:P:752:ARG:NE	1:P:927:ARG:NH1	2.57	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:842:MET:SD	4:t:61:LEU:CD2	2.97	0.52
1:P:904:ARG:NH1	1:P:906:THR:HG23	2.24	0.52
3:S:120:CYS:O	3:S:215:TYR:CE2	2.62	0.52
3:V:41:ILE:HD13	3:V:41:ILE:C	2.32	0.52
2:X:10:ILE:HB	2:X:83:ILE:HB	1.91	0.52
2:Z:120:VAL:HG13	2:Z:121:PHE:CD2	2.43	0.52
2:a:75:ILE:N	2:a:75:ILE:CD1	2.73	0.52
4:h:20:LEU:O	4:h:60:ALA:HA	2.10	0.52
4:i:1:MET:H2	4:i:5:GLN:CB	2.20	0.52
1:G:467:MET:CB	1:G:920:THR:HG21	2.39	0.52
1:G:1120:THR:CG2	1:G:1122:MET:H	2.21	0.52
1:A:452:LEU:CD2	1:A:456:ASN:ND2	2.71	0.52
1:A:739:CYS:O	1:A:743:MET:HG2	2.09	0.52
1:A:1054:ARG:NH1	1:A:1123:GLY:HA3	2.25	0.52
1:B:179:GLY:O	1:B:183:GLN:HG2	2.10	0.52
1:B:275:ASP:OD1	1:B:275:ASP:N	2.24	0.52
1:B:797:ASP:OD1	1:B:798:ARG:N	2.42	0.52
1:B:847:ILE:HG23	4:h:71:ASN:HA	1.91	0.52
1:C:532:MET:HB2	1:C:534:PRO:HG2	1.91	0.52
1:D:889:PRO:HB3	4:j:69:ALA:HB3	1.91	0.52
1:D:1197:ASN:N	1:D:1197:ASN:HD22	2.07	0.52
1:E:258:SER:O	1:E:258:SER:OG	2.25	0.52
1:E:1160:ALA:HB2	1:E:1172:PRO:HG3	1.90	0.52
1:F:124:ILE:HD12	1:F:1074:PHE:CE2	2.44	0.52
1:F:443:TRP:CZ2	1:F:1347:ARG:CD	2.84	0.52
1:F:873:ASN:ND2	4:g:92:PHE:CB	2.73	0.52
1:H:756:ILE:HD12	1:H:757:ASP:H	1.74	0.52
1:H:1059:VAL:O	1:H:1115:VAL:C	2.51	0.52
1:I:299:GLU:HA	1:I:365:ALA:O	2.09	0.52
1:I:521:VAL:HG22	1:I:521:VAL:O	2.08	0.52
1:I:656:TRP:CE2	1:I:686:CYS:HB3	2.44	0.52
1:I:659:THR:HA	1:J:684:GLU:OE1	2.10	0.52
1:I:840:GLN:C	1:I:842:MET:HE2	2.34	0.52
1:I:947:HIS:NE2	1:J:638:GLU:OE1	2.41	0.52
1:J:296:GLU:HG3	1:J:366:ASP:OD1	2.09	0.52
1:J:423:LEU:HD12	1:J:1357:HIS:CD2	2.45	0.52
1:J:836:TYR:HE1	1:J:897:LEU:HD22	1.73	0.52
1:J:1050:PHE:HD2	1:J:1187:PHE:HB3	1.74	0.52
1:K:399:ASP:HB2	1:K:1321:VAL:HG21	1.91	0.52
1:K:546:ALA:HA	1:K:1031:MET:SD	2.49	0.52
1:K:1029:PHE:HB3	1:K:1039:GLN:NE2	2.24	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:137:THR:CG2	1:M:1087:GLY:O	2.57	0.52
1:M:407:GLY:HA3	1:M:454:MET:HE3	1.92	0.52
1:N:589:VAL:HG13	1:N:1009:HIS:HD2	1.74	0.52
1:N:730:ALA:CA	1:N:745:HIS:CE1	2.92	0.52
1:N:756:ILE:HG13	1:N:757:ASP:N	2.24	0.52
1:O:117:HIS:CE1	1:P:168:ASN:HD21	2.22	0.52
1:O:618:PHE:HA	1:O:940:MET:HB3	1.91	0.52
1:O:1155:ASN:CB	1:O:1158:GLY:H	2.22	0.52
1:P:27:ILE:HG21	1:P:32:HIS:CD2	2.45	0.52
2:Q:119:PRO:HG3	2:Q:138:ARG:NH2	2.25	0.52
2:R:14:SER:O	2:R:15:GLY:C	2.52	0.52
2:T:161:ARG:NH2	2:T:176:LEU:HG	2.23	0.52
2:T:220:ILE:HD12	2:U:209:MET:HB2	1.91	0.52
2:X:68:ARG:HH22	2:X:288:ILE:C	2.12	0.52
2:X:134:ASP:O	2:X:135:LEU:CG	2.56	0.52
3:Y:316:TYR:HA	3:Y:324:LEU:O	2.09	0.52
3:b:243:GLU:C	3:b:244:VAL:CG2	2.82	0.52
3:b:292:ALA:CB	3:b:295:ASP:OD1	2.35	0.52
2:c:120:VAL:HG13	2:c:121:PHE:CD2	2.43	0.52
2:d:161:ARG:NE	2:d:173:LEU:HD23	2.24	0.52
4:m:3:ALA:C	4:m:40:TYR:CB	2.74	0.52
1:G:263:ARG:NH1	1:G:359:GLN:NE2	2.55	0.52
1:G:311:LEU:HB2	1:B:153:ILE:CD1	2.39	0.52
1:G:1218:LYS:HG2	1:G:1221:ASP:CG	2.26	0.52
1:B:522:ALA:C	1:B:524:CYS:N	2.66	0.52
1:B:876:ASN:HA	1:B:879:PHE:HD2	1.74	0.52
1:C:1208:ARG:NH2	1:C:1240:ALA:O	2.42	0.52
1:D:574:THR:HG21	1:D:998:TYR:O	2.10	0.52
1:D:591:PHE:CZ	1:D:1045:HIS:CD2	2.95	0.52
1:E:124:ILE:CD1	1:E:1100:VAL:HG23	2.39	0.52
1:E:145:GLY:O	1:E:146:GLU:CB	2.55	0.52
1:E:175:ALA:O	1:E:179:GLY:N	2.29	0.52
1:E:532:MET:HB2	1:E:534:PRO:HD2	1.91	0.52
1:H:407:GLY:HA2	1:H:437:PRO:O	2.09	0.52
1:H:429:HIS:HB3	1:H:430:PRO:HD2	1.89	0.52
1:H:626:VAL:HG12	1:H:878:MET:HG3	1.92	0.52
1:H:766:ALA:N	1:H:783:LEU:O	2.43	0.52
1:H:775:ASP:OD2	1:H:778:ARG:HB3	2.10	0.52
1:H:903:GLU:HG2	1:H:904:ARG:HG2	1.92	0.52
1:I:840:GLN:O	1:I:842:MET:N	2.42	0.52
1:J:59:GLY:O	1:J:61:TYR:CE2	2.62	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:375:VAL:CG1	1:J:376:PHE:N	2.72	0.52
1:J:375:VAL:HG22	1:J:1065:PHE:CE1	2.41	0.52
1:J:1015:ALA:O	1:J:1016:GLY:C	2.52	0.52
1:K:718:ALA:HB1	1:P:982:ASP:OD2	2.09	0.52
1:L:574:THR:HG21	1:L:998:TYR:O	2.09	0.52
1:L:915:ASP:OD1	1:L:918:ALA:HB3	2.10	0.52
1:L:1079:GLN:HE21	1:L:1094:THR:HG23	1.71	0.52
1:M:87:LEU:HD21	1:M:1076:GLY:CA	2.40	0.52
1:M:309:MET:HB2	1:M:327:ARG:HH12	1.73	0.52
1:M:842:MET:CE	1:M:894:LEU:HD23	2.38	0.52
1:M:1095:GLN:HE21	1:M:1097:ARG:NE	2.06	0.52
1:N:1163:LEU:HD23	1:N:1169:ALA:CA	2.37	0.52
1:O:248:LEU:HD23	1:O:293:LEU:CD2	2.37	0.52
1:O:696:HIS:CE1	1:O:1021:THR:HG21	2.45	0.52
1:P:69:ARG:O	1:P:70:PHE:HB3	2.09	0.52
1:P:776:PHE:CD1	1:P:903:GLU:HA	2.45	0.52
1:P:903:GLU:HG2	1:P:904:ARG:N	2.25	0.52
2:R:164:ASN:HD22	2:R:164:ASN:C	2.06	0.52
3:S:132:LEU:HD21	3:S:312:LEU:HD21	1.91	0.52
3:S:198:TYR:CZ	3:S:294:VAL:HG11	2.45	0.52
3:V:211:ILE:HG12	3:V:215:TYR:CE1	2.44	0.52
2:X:126:THR:HG22	2:X:138:ARG:HA	1.92	0.52
2:a:161:ARG:NH2	2:a:162:ASP:CB	2.72	0.52
3:b:314:PHE:CD1	3:b:327:VAL:HG22	2.44	0.52
3:b:430:ASP:HB3	3:b:453:GLU:O	2.08	0.52
2:c:177:ASN:ND2	2:c:189:VAL:H	2.08	0.52
3:e:240:PHE:HZ	3:e:418:THR:CG2	2.22	0.52
4:i:103:VAL:O	4:i:104:ARG:C	2.52	0.52
4:j:7:HIS:CD2	4:j:51:ARG:C	2.87	0.52
4:o:3:ALA:HB2	4:o:38:ASN:O	1.97	0.52
4:q:20:LEU:N	4:q:20:LEU:CD2	2.73	0.52
1:G:237:ALA:C	1:G:244:ILE:HD11	2.35	0.52
1:G:295:VAL:HB	1:G:367:LEU:C	2.33	0.52
1:G:656:TRP:HZ2	1:G:685:GLU:HG2	1.75	0.52
1:G:832:PHE:N	1:G:832:PHE:HD1	2.08	0.52
1:G:897:LEU:O	1:G:901:MET:HE2	2.10	0.52
1:G:986:HIS:NE2	1:G:1008:GLN:OE1	2.41	0.52
1:G:1285:LYS:CE	1:G:1300:VAL:HG21	2.39	0.52
1:A:77:VAL:CG2	1:A:376:PHE:CE2	2.93	0.52
1:A:419:HIS:ND1	1:A:420:ALA:N	2.56	0.52
1:A:758:ALA:HB1	1:A:779:ASN:CB	2.40	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:863:HIS:CE1	1:A:865:LEU:HB2	2.44	0.52
1:A:1216:GLY:O	1:A:1217:ASP:CB	2.56	0.52
1:B:458:VAL:O	1:B:462:CYS:HB2	2.09	0.52
1:D:97:PHE:CE1	1:D:122:LYS:CD	2.93	0.52
1:D:469:ILE:O	1:D:472:ALA:N	2.38	0.52
1:D:949:ILE:CG2	1:D:953:GLU:HG3	2.40	0.52
1:E:84:PHE:HE2	1:E:90:MET:SD	2.33	0.52
1:F:259:VAL:CG2	1:F:1102:LEU:HG	2.39	0.52
1:H:403:VAL:C	1:H:404:LEU:HD12	2.34	0.52
1:H:481:VAL:CG2	1:H:482:GLU:N	2.73	0.52
1:H:841:ASN:OD1	4:m:57:GLN:NE2	2.42	0.52
1:I:347:ASN:HB3	1:J:163:GLN:NE2	2.25	0.52
1:I:540:ALA:HA	1:I:1248:GLN:HE22	1.75	0.52
1:I:895:GLN:OE1	4:n:62:THR:HA	2.10	0.52
1:I:1225:LEU:HD21	1:I:1234:PRO:CB	2.35	0.52
1:J:35:LEU:CD1	1:K:1291:ARG:NH2	2.73	0.52
1:J:264:LEU:CD2	1:J:266:HIS:NE2	2.73	0.52
1:J:752:ARG:HG3	1:J:927:ARG:CD	2.40	0.52
1:J:1054:ARG:HH12	1:J:1123:GLY:N	2.04	0.52
1:K:1155:ASN:CB	1:K:1158:GLY:H	2.22	0.52
1:K:1249:ARG:O	1:K:1250:PHE:HB2	2.09	0.52
1:L:299:GLU:HB2	1:L:364:ARG:NH1	2.24	0.52
1:M:233:PHE:HZ	1:M:243:ALA:HB1	1.74	0.52
1:M:534:PRO:CA	1:N:1154:GLY:HA3	2.36	0.52
1:N:189:LEU:CD1	1:N:189:LEU:N	2.73	0.52
1:N:408:LEU:HD21	1:N:1190:THR:OG1	2.09	0.52
1:N:520:TRP:NE1	1:N:997:ASN:HD22	2.07	0.52
1:N:765:TYR:CD1	1:N:765:TYR:N	2.76	0.52
1:O:136:ALA:O	1:O:140:ILE:HG12	2.09	0.52
1:P:714:LEU:HD13	1:P:719:GLN:HE22	1.74	0.52
2:Q:156:VAL:HG23	2:Q:206:VAL:HG22	1.90	0.52
2:R:237:VAL:HG12	2:R:237:VAL:O	2.08	0.52
3:S:134:LEU:HD12	3:S:244:VAL:CG1	2.35	0.52
3:S:164:LEU:HA	3:S:226:ARG:CB	2.26	0.52
3:S:243:GLU:C	3:S:244:VAL:CG2	2.82	0.52
3:S:335:PRO:O	3:S:336:PRO:C	2.51	0.52
2:U:92:LEU:HD23	2:U:316:ARG:HG3	1.91	0.52
3:V:120:CYS:O	3:V:215:TYR:CE2	2.62	0.52
3:V:141:PRO:O	3:V:144:ALA:HB3	2.10	0.52
3:V:148:ALA:O	3:V:149:PRO:C	2.52	0.52
2:W:220:ILE:HD12	2:X:209:MET:HB2	1.92	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:W:227:LEU:HD13	2:W:228:LEU:CD1	2.00	0.52
3:Y:88:ASP:O	3:Y:91:LEU:CB	2.56	0.52
3:Y:210:HIS:CE1	3:Y:442:PHE:CB	2.90	0.52
3:Y:335:PRO:O	3:Y:336:PRO:C	2.53	0.52
2:a:104:SER:HB3	2:a:141:VAL:CG1	2.39	0.52
3:b:112:ARG:CG	3:b:112:ARG:NH2	2.71	0.52
3:b:334:LEU:HD23	3:b:334:LEU:C	2.34	0.52
1:G:1083:HIS:O	1:G:1090:ASN:N	2.40	0.52
1:A:402:PHE:HD1	1:A:1332:TYR:O	1.93	0.52
1:A:1206:ARG:NH1	1:A:1247:SER:O	2.42	0.52
1:B:84:PHE:HD1	1:B:309:MET:HB3	1.73	0.52
1:B:290:GLN:HE21	1:B:290:GLN:C	2.09	0.52
1:B:384:ILE:HD11	1:B:385:TYR:CE2	2.44	0.52
1:C:45:ASP:CG	1:C:50:TYR:OH	2.53	0.52
1:C:1056:ASP:OD1	1:C:1120:THR:HG21	2.08	0.52
1:D:120:MET:CE	1:I:29:VAL:HG11	2.31	0.52
1:D:643:ALA:HB1	1:D:896:VAL:HG21	1.89	0.52
1:D:863:HIS:CE1	1:D:865:LEU:HB2	2.45	0.52
1:D:1274:PHE:CD1	1:D:1274:PHE:C	2.88	0.52
1:F:146:GLU:HA	1:F:146:GLU:OE1	2.10	0.52
1:F:269:THR:CB	1:F:298:THR:HG21	2.38	0.52
1:F:505:PHE:HE1	1:F:509:TRP:CD1	2.27	0.52
1:F:867:PRO:CG	4:g:78:MET:O	2.57	0.52
1:H:111:PRO:HA	2:W:38:ARG:HH22	1.74	0.52
1:H:866:HIS:CD2	1:H:868:ALA:H	2.28	0.52
1:I:101:GLN:OE1	1:I:116:VAL:HG21	2.10	0.52
1:I:785:HIS:CD2	1:I:800:HIS:HE2	2.27	0.52
1:I:1233:ASP:O	1:I:1237:PRO:HA	2.10	0.52
1:J:229:ASP:C	1:J:236:LYS:HZ2	2.04	0.52
1:J:407:GLY:HA3	1:J:454:MET:HE1	1.82	0.52
1:J:639:HIS:HB2	1:J:789:ALA:HA	1.92	0.52
1:J:707:PHE:HA	1:J:1042:THR:HG21	1.92	0.52
1:J:1052:VAL:HG22	1:J:1187:PHE:CE1	2.45	0.52
1:K:90:MET:HG2	1:K:91:ASN:H	1.75	0.52
1:L:111:PRO:O	1:L:112:VAL:HB	2.10	0.52
1:L:638:GLU:OE1	1:L:801:ARG:NH2	2.32	0.52
1:L:738:ASP:HB3	1:L:787:THR:OG1	2.09	0.52
1:M:415:ARG:NH2	1:M:590:ALA:HB1	2.13	0.52
1:M:506:LEU:O	1:M:510:ARG:HG3	2.09	0.52
1:M:1274:PHE:O	1:M:1277:PHE:O	2.28	0.52
1:N:439:GLN:HG2	1:N:451:ARG:HD2	1.92	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:620:ASP:OD1	1:O:691:ARG:NH1	2.41	0.52
1:O:305:THR:CG2	1:O:306:TYR:N	2.73	0.52
1:O:469:ILE:O	1:O:472:ALA:N	2.42	0.52
2:Q:112:ASP:HA	2:Q:295:VAL:O	2.09	0.52
2:R:117:VAL:HG12	2:R:118:PRO:O	2.10	0.52
3:S:112:ARG:NH2	3:S:112:ARG:CG	2.73	0.52
3:S:445:VAL:CG1	3:S:446:GLY:N	2.73	0.52
2:U:10:ILE:HB	2:U:83:ILE:HB	1.91	0.52
2:U:68:ARG:HH22	2:U:288:ILE:C	2.12	0.52
2:X:16:ILE:O	2:X:16:ILE:HG13	2.09	0.52
2:X:295:VAL:HG13	2:X:314:VAL:HG13	1.92	0.52
3:Y:38:ARG:N	3:Y:39:PRO:CD	2.73	0.52
3:Y:91:LEU:O	3:Y:95:ARG:HG2	2.09	0.52
3:Y:112:ARG:HG2	3:Y:112:ARG:NH2	2.24	0.52
2:a:117:VAL:HG12	2:a:118:PRO:O	2.10	0.52
3:b:149:PRO:CG	3:b:152:ARG:HE	2.20	0.52
3:b:450:VAL:HG23	3:b:450:VAL:O	2.09	0.52
2:c:112:ASP:HA	2:c:295:VAL:O	2.09	0.52
2:c:124:GLN:CA	2:c:124:GLN:NE2	2.72	0.52
2:d:117:VAL:HG12	2:d:118:PRO:O	2.09	0.52
3:e:242:HIS:HD2	3:e:243:GLU:N	2.06	0.52
3:e:437:HIS:HB3	3:e:449:VAL:CG1	2.37	0.52
4:f:3:ALA:C	4:f:40:TYR:CB	2.74	0.52
4:t:106:PRO:CD	4:t:107:LYS:N	2.73	0.52
1:G:36:PHE:N	1:G:37:ASP:CA	2.70	0.52
1:G:310:VAL:HG23	1:G:310:VAL:O	2.09	0.52
1:G:623:TYR:OH	1:G:663:ALA:O	2.25	0.52
1:G:1056:ASP:OD1	1:G:1120:THR:HB	2.10	0.52
1:A:509:TRP:O	1:A:513:LEU:HB3	2.10	0.52
1:B:165:LEU:HA	1:B:168:ASN:HD22	1.75	0.52
1:B:219:LEU:O	1:B:223:LEU:N	2.38	0.52
1:B:419:HIS:CD2	1:B:420:ALA:H	2.28	0.52
1:B:752:ARG:CG	1:B:752:ARG:NH2	2.73	0.52
1:C:409:PHE:CD1	1:C:591:PHE:HD1	2.28	0.52
1:C:756:ILE:CG1	1:C:757:ASP:N	2.73	0.52
1:C:938:LEU:HD21	1:C:964:PHE:CD1	2.43	0.52
1:D:520:TRP:CD1	1:D:520:TRP:N	2.78	0.52
1:D:797:ASP:OD1	1:D:798:ARG:N	2.40	0.52
1:D:883:ARG:CD	1:E:680:GLY:HA3	2.40	0.52
1:D:1355:GLU:CD	1:E:1344:ARG:HE	2.17	0.52
1:E:863:HIS:CE1	1:E:865:LEU:HB2	2.44	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1347:ARG:O	1:F:1348:ASP:HB2	2.08	0.52
1:H:148:LEU:HD11	1:H:158:GLN:HE21	1.74	0.52
1:H:178:ARG:NH1	1:H:384:ILE:HA	2.25	0.52
1:H:201:MET:HG3	1:H:205:LEU:HD11	1.91	0.52
1:H:521:VAL:HG22	1:H:521:VAL:O	2.08	0.52
1:H:727:ARG:O	1:H:728:ASP:C	2.50	0.52
1:H:732:LEU:HD13	1:H:736:VAL:HG21	1.92	0.52
1:H:1218:LYS:HE3	1:I:1173:ARG:HH12	1.41	0.52
1:I:1077:GLN:OE1	1:L:149:ASP:HB3	2.08	0.52
1:J:118:ASN:HB2	1:J:120:MET:CE	2.40	0.52
1:J:405:PRO:HB3	1:J:408:LEU:HD12	1.92	0.52
1:J:804:ASP:O	1:J:808:HIS:ND1	2.32	0.52
1:J:998:TYR:O	1:J:1003:ARG:NH2	2.35	0.52
1:J:1334:ILE:HA	1:J:1365:ASP:HA	1.91	0.52
1:L:202:GLN:HE21	1:L:205:LEU:CD2	2.21	0.52
1:L:589:VAL:HG13	1:L:1009:HIS:HD2	1.75	0.52
1:L:607:ALA:O	1:L:610:THR:HG22	2.09	0.52
1:M:332:VAL:O	1:M:336:LEU:HG	2.10	0.52
1:N:200:PRO:HA	1:N:203:ARG:HH11	1.71	0.52
1:N:607:ALA:O	1:N:610:THR:HG22	2.10	0.52
1:N:1279:ALA:HA	1:N:1282:ILE:HB	1.92	0.52
1:O:266:HIS:O	1:O:267:ALA:HB3	2.08	0.52
2:R:92:LEU:HD23	2:R:316:ARG:HG3	1.91	0.52
3:Y:130:LEU:HB2	3:Y:187:PHE:HB2	1.90	0.52
3:Y:144:ALA:O	3:Y:154:THR:HG21	2.09	0.52
3:Y:211:ILE:HG12	3:Y:215:TYR:CE1	2.44	0.52
3:Y:242:HIS:HD2	3:Y:243:GLU:H	1.57	0.52
3:Y:345:ARG:C	3:Y:347:PHE:H	2.18	0.52
2:Z:119:PRO:HG3	2:Z:138:ARG:NH2	2.25	0.52
3:b:207:VAL:CA	3:b:447:VAL:HG11	2.39	0.52
3:b:335:PRO:O	3:b:336:PRO:C	2.52	0.52
3:e:198:TYR:CE1	3:e:294:VAL:CG1	2.93	0.52
3:e:313:VAL:HG22	3:e:422:PHE:HB3	1.91	0.52
1:G:656:TRP:CZ2	1:G:685:GLU:HG2	2.45	0.52
1:G:765:TYR:CD1	1:G:783:LEU:HB2	2.44	0.52
1:A:1201:ARG:NH2	1:B:1179:HIS:HE1	2.06	0.52
1:B:278:LEU:HD11	1:B:370:ILE:HD11	1.92	0.52
1:B:620:ASP:OD1	1:C:691:ARG:NH1	2.40	0.52
1:F:256:GLN:OE1	1:F:257:PRO:HD2	2.08	0.52
1:F:365:ALA:HB1	1:F:376:PHE:CE1	2.44	0.52
1:F:724:HIS:CE1	1:F:1028:TYR:HB2	2.44	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:305:THR:CG2	1:I:306:TYR:N	2.72	0.52
1:I:1073:TYR:OH	1:I:1097:ARG:CD	2.58	0.52
1:I:1166:PHE:CZ	2:W:284:GLN:HB2	2.27	0.52
1:J:251:LEU:HD11	1:J:1063:VAL:HG21	1.92	0.52
1:J:646:ARG:NH2	4:o:78:MET:CB	2.73	0.52
1:K:84:PHE:HE2	1:K:90:MET:HE3	1.74	0.52
1:K:104:ILE:HD11	1:L:390:VAL:HG11	1.92	0.52
1:K:196:ALA:HB1	1:K:227:PHE:HA	1.92	0.52
1:K:541:LEU:HD21	1:K:571:ILE:HD11	1.91	0.52
1:K:624:PRO:HB3	1:K:882:GLY:HA3	1.91	0.52
1:L:301:ASP:OD2	1:L:376:PHE:HE1	1.92	0.52
1:L:770:ASN:H	1:L:773:THR:HB	1.75	0.52
1:L:1218:LYS:NZ	2:d:184:ALA:HB2	2.05	0.52
1:M:532:MET:CB	1:M:534:PRO:HD2	2.34	0.52
1:M:782:ARG:O	1:M:783:LEU:HD12	2.10	0.52
1:M:1071:GLU:OE2	1:M:1099:ASN:HB2	2.10	0.52
1:N:200:PRO:HA	1:N:203:ARG:HH12	1.72	0.52
1:N:200:PRO:CA	1:N:203:ARG:NH1	2.61	0.52
1:N:436:PRO:HD2	1:N:598:GLU:OE1	2.10	0.52
1:N:1253:GLY:O	1:N:1277:PHE:CD2	2.63	0.52
1:O:816:LEU:N	1:O:816:LEU:HD22	2.24	0.52
1:P:565:PRO:HG2	1:P:565:PRO:O	2.10	0.52
2:Q:155:LEU:CD1	2:Q:188:LEU:HD21	2.40	0.52
2:R:16:ILE:H	2:R:132:SER:CB	2.21	0.52
3:S:112:ARG:HH21	3:S:112:ARG:CG	2.22	0.52
2:U:161:ARG:NE	2:U:173:LEU:HD23	2.25	0.52
2:U:295:VAL:HG13	2:U:314:VAL:HG13	1.92	0.52
3:V:238:HIS:HE1	3:V:416:THR:OG1	1.92	0.52
2:c:106:VAL:HG11	2:c:305:VAL:HG12	1.76	0.52
3:e:134:LEU:HD13	3:e:245:MET:CG	2.36	0.52
3:e:137:PRO:N	3:e:138:THR:CB	2.72	0.52
3:e:300:LEU:CD1	3:e:332:SER:CA	2.88	0.52
1:G:201:MET:HE1	1:G:1289:LEU:HD12	1.92	0.52
1:G:832:PHE:N	1:G:832:PHE:CD1	2.77	0.52
1:G:839:LEU:HD13	1:G:897:LEU:HD13	1.92	0.52
1:G:843:VAL:H	1:G:876:ASN:HD21	1.57	0.52
1:G:1236:ARG:HH22	1:G:1242:ALA:CB	2.19	0.52
1:G:1280:ALA:O	1:G:1284:ALA:N	2.38	0.52
1:A:248:LEU:CD2	1:A:293:LEU:HD11	2.39	0.52
1:A:836:TYR:O	1:A:840:GLN:HG2	2.10	0.52
1:B:1029:PHE:HB3	1:B:1039:GLN:NE2	2.25	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1059:VAL:CG1	1:B:1116:ARG:HD3	2.40	0.52
1:C:519:ARG:NH1	1:C:550:PHE:HA	2.25	0.52
1:D:259:VAL:HA	1:I:22:SER:O	2.10	0.52
1:E:1056:ASP:OD2	1:E:1122:MET:HE2	2.10	0.52
1:F:530:GLN:CG	1:F:536:ASN:HD21	2.23	0.52
1:F:1276:PHE:HE1	1:F:1329:GLN:C	2.15	0.52
1:H:272:ARG:HD3	1:H:374:LEU:CG	2.40	0.52
1:H:663:ALA:N	1:H:690:TYR:OH	2.34	0.52
1:I:16:ALA:C	1:I:18:VAL:H	2.18	0.52
1:I:509:TRP:HH2	1:I:564:PRO:HG3	1.75	0.52
1:I:739:CYS:O	1:I:743:MET:HG2	2.10	0.52
1:J:184:MET:HB3	1:J:188:LEU:CD1	2.39	0.52
1:J:233:PHE:CE2	1:J:244:ILE:HD13	2.45	0.52
1:J:668:TYR:HB2	1:J:812:TYR:CD1	2.45	0.52
1:J:889:PRO:HD3	4:o:69:ALA:HB3	1.76	0.52
1:J:1365:ASP:OD2	1:J:1370:LYS:HA	2.09	0.52
1:J:1369:LEU:O	1:J:1372:LEU:HB2	2.10	0.52
1:K:889:PRO:HD3	4:p:69:ALA:CB	2.39	0.52
1:K:1314:PRO:O	1:K:1315:PRO:C	2.52	0.52
1:L:563:VAL:HG12	1:L:564:PRO:HD3	1.92	0.52
1:L:847:ILE:HG22	4:q:67:THR:O	2.09	0.52
1:M:841:ASN:O	1:M:875:VAL:N	2.34	0.52
1:M:1152:VAL:CG1	1:M:1159:PRO:HD2	2.39	0.52
1:N:129:LEU:O	1:N:1094:THR:HA	2.10	0.52
1:O:1161:GLN:CB	1:O:1162:PRO:CD	2.86	0.52
1:P:280:THR:HG22	1:P:281:THR:N	2.25	0.52
1:P:491:VAL:H	1:P:558:LEU:HD22	1.75	0.52
1:P:842:MET:SD	4:t:61:LEU:HD13	2.50	0.52
1:P:1059:VAL:O	1:P:1116:ARG:N	2.39	0.52
3:S:318:GLN:CB	3:S:352:ILE:HG23	2.39	0.52
2:T:155:LEU:HD12	2:T:188:LEU:HD21	1.91	0.52
2:U:117:VAL:HG12	2:U:118:PRO:O	2.09	0.52
3:V:313:VAL:HG22	3:V:422:PHE:HB3	1.91	0.52
2:a:32:VAL:HG12	2:a:34:LEU:CD2	2.40	0.52
3:b:304:GLY:H	3:b:333:GLN:NE2	2.08	0.52
2:d:41:LEU:HD12	2:d:42:ALA:N	2.23	0.52
2:d:295:VAL:HG13	2:d:314:VAL:HG13	1.92	0.52
4:o:20:LEU:HD12	4:o:25:LEU:HG	1.91	0.52
1:G:491:VAL:HG21	1:G:929:PHE:CD2	2.45	0.51
1:G:726:MET:HE1	1:G:814:TYR:HB2	1.90	0.51
1:A:544:HIS:CD2	1:A:547:PHE:HD2	2.28	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1102:LEU:C	1:A:1102:LEU:HD12	2.34	0.51
1:C:127:ARG:HD2	1:C:183:GLN:HE22	1.74	0.51
1:C:485:ASN:HD22	1:C:516:GLY:HA3	1.71	0.51
1:D:96:GLN:HB3	1:D:121:THR:HG22	1.92	0.51
1:D:419:HIS:HA	1:E:422:ASP:HA	1.92	0.51
1:D:539:LEU:HD11	1:D:1244:PRO:HB3	1.92	0.51
1:D:782:ARG:O	1:D:783:LEU:HD12	2.10	0.51
1:E:728:ASP:O	1:E:810:LYS:NZ	2.42	0.51
1:E:831:ARG:O	1:E:835:VAL:HG23	2.10	0.51
1:E:1052:VAL:HA	1:E:1186:GLU:O	2.10	0.51
1:F:392:TYR:CE2	1:F:394:LEU:HB2	2.45	0.51
1:F:804:ASP:HB3	1:F:808:HIS:CE1	2.44	0.51
1:F:883:ARG:O	1:F:884:VAL:CG2	2.58	0.51
1:F:1115:VAL:CG2	1:F:1372:LEU:HD13	2.41	0.51
1:H:264:LEU:CD2	1:H:266:HIS:CB	2.85	0.51
1:H:606:MET:HB2	1:H:1018:ASN:HD21	1.75	0.51
1:H:656:TRP:O	1:H:660:ARG:NH1	2.43	0.51
1:I:299:GLU:O	1:I:365:ALA:N	2.42	0.51
1:I:624:PRO:HB3	1:I:882:GLY:HA3	1.92	0.51
1:I:1301:SER:HB3	1:I:1321:VAL:HB	1.92	0.51
1:J:301:ASP:O	1:J:303:PRO:HD3	2.10	0.51
1:J:304:VAL:CG2	1:J:305:THR:N	2.72	0.51
1:J:373:ARG:CZ	1:J:1067:GLU:OE2	2.58	0.51
1:J:432:PRO:HA	1:J:435:PHE:CE2	2.44	0.51
1:J:574:THR:HG21	1:J:998:TYR:O	2.09	0.51
1:J:1109:VAL:HG22	1:J:1110:ALA:N	2.25	0.51
1:K:521:VAL:HG21	1:L:710:PRO:HG3	1.92	0.51
1:K:778:ARG:HG3	1:K:904:ARG:NE	2.26	0.51
1:L:140:ILE:HG22	1:L:141:ALA:N	2.25	0.51
1:L:303:PRO:HG3	1:L:363:VAL:HG12	1.91	0.51
1:L:846:GLU:OE1	4:q:67:THR:CG2	2.59	0.51
1:L:853:CYS:HB2	4:q:69:ALA:O	2.11	0.51
1:M:266:HIS:HB2	1:M:303:PRO:C	2.34	0.51
1:N:95:VAL:HG23	1:N:97:PHE:CE1	2.45	0.51
1:N:106:ARG:HH22	1:O:390:VAL:HG13	1.75	0.51
1:N:1163:LEU:CD2	1:N:1169:ALA:CA	2.87	0.51
1:O:200:PRO:HB2	1:O:223:LEU:HD23	1.92	0.51
1:P:528:ALA:O	1:P:529:GLU:CB	2.57	0.51
3:S:350:LEU:CD1	3:S:350:LEU:N	2.72	0.51
3:V:132:LEU:HD21	3:V:312:LEU:HD21	1.91	0.51
2:W:37:ILE:HG22	2:W:37:ILE:O	2.11	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Y:268:SER:HA	3:Y:457:TRP:HB2	1.92	0.51
2:a:29:GLY:O	2:a:101:ARG:HB3	2.11	0.51
2:a:93:THR:CA	2:a:316:ARG:HH21	2.24	0.51
3:b:130:LEU:HD22	3:b:187:PHE:CG	2.42	0.51
3:e:278:HIS:C	3:e:285:ALA:HA	2.15	0.51
4:n:46:THR:CG2	4:n:50:VAL:HG11	2.18	0.51
4:t:75:PRO:O	4:t:76:GLN:CB	2.57	0.51
1:G:522:ALA:CA	1:G:524:CYS:HG	2.17	0.51
1:G:625:ALA:HA	1:G:628:TYR:HD2	1.75	0.51
1:G:627:PHE:CE1	1:G:651:CYS:HB3	2.45	0.51
1:G:1278:THR:O	1:G:1279:ALA:HB3	2.09	0.51
1:A:94:ARG:HH12	1:A:123:VAL:CG2	2.21	0.51
1:A:112:VAL:HG12	1:B:132:ALA:CA	2.39	0.51
1:A:490:TYR:HH	1:A:561:GLY:HA3	1.75	0.51
1:A:1276:PHE:HZ	1:A:1330:GLU:N	2.09	0.51
1:B:25:SER:CB	1:B:64:THR:HG23	2.33	0.51
1:B:143:LEU:HD21	1:B:161:ALA:HB3	1.91	0.51
1:B:1316:GLY:HA2	3:S:260:LEU:HD13	1.76	0.51
1:C:288:LEU:O	1:C:291:SER:O	2.27	0.51
1:C:755:ARG:CZ	1:C:755:ARG:CB	2.88	0.51
1:D:235:GLY:HA3	1:D:1114:THR:HG22	1.91	0.51
1:D:883:ARG:O	1:D:884:VAL:CG2	2.58	0.51
1:E:834:ARG:HG2	4:l:94:LEU:CB	2.36	0.51
1:H:269:THR:HG22	1:H:270:ARG:N	2.25	0.51
1:H:721:GLU:O	1:H:1030:LYS:NZ	2.41	0.51
1:H:838:THR:HG23	4:n:94:LEU:CA	2.37	0.51
1:H:1106:TYR:CZ	1:H:1293:ILE:HD11	2.45	0.51
1:I:266:HIS:HB2	1:I:304:VAL:N	2.25	0.51
1:I:365:ALA:HB1	1:I:376:PHE:CE1	2.46	0.51
1:I:529:GLU:HG2	1:I:532:MET:CE	2.39	0.51
1:I:581:ASN:O	1:I:1005:PRO:HG2	2.10	0.51
1:I:604:HIS:O	1:I:1022:TYR:OH	2.22	0.51
1:I:1072:ALA:O	1:I:1099:ASN:HA	2.10	0.51
1:J:1054:ARG:NH1	1:J:1122:MET:C	2.68	0.51
1:J:1206:ARG:HD2	1:J:1246:ALA:O	2.11	0.51
1:J:1261:TYR:C	1:J:1262:HIS:CG	2.88	0.51
1:M:1355:GLU:CD	1:N:1344:ARG:HE	2.18	0.51
1:N:586:LEU:HD23	1:N:1245:TRP:CZ2	2.45	0.51
1:N:1121:ASP:OD1	1:N:1180:GLY:N	2.43	0.51
1:O:1206:ARG:HG2	1:O:1206:ARG:HH21	1.75	0.51
1:O:1213:VAL:HG21	1:O:1327:LEU:HD23	1.92	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:528:ALA:O	1:P:529:GLU:CG	2.55	0.51
1:P:544:HIS:CD2	1:P:546:ALA:H	2.27	0.51
1:P:1125:LEU:HB3	1:P:1183:ALA:O	2.10	0.51
2:R:70:ARG:O	3:S:337:ARG:NH2	2.44	0.51
2:T:119:PRO:HG3	2:T:138:ARG:NH2	2.25	0.51
2:T:124:GLN:NE2	2:T:124:GLN:CA	2.72	0.51
2:X:41:LEU:HD12	2:X:42:ALA:N	2.23	0.51
2:X:175:ASP:C	2:X:177:ASN:H	2.18	0.51
3:Y:132:LEU:HD21	3:Y:312:LEU:HD21	1.91	0.51
3:b:112:ARG:NH2	3:b:112:ARG:CB	2.73	0.51
3:b:190:LEU:CD1	3:b:245:MET:HE1	2.05	0.51
2:c:90:LEU:HD13	2:d:300:PHE:HE1	1.76	0.51
2:d:70:ARG:O	3:e:337:ARG:NH2	2.44	0.51
2:d:199:ASN:O	2:d:203:ARG:N	2.37	0.51
3:e:285:ALA:O	3:e:286:VAL:CG2	2.48	0.51
4:m:92:PHE:HA	4:m:102:VAL:N	2.24	0.51
1:G:100:HIS:HE1	1:G:115:PRO:HB3	1.74	0.51
1:G:348:ARG:HE	1:A:337:LEU:CD2	2.22	0.51
1:G:474:GLY:HA2	1:G:477:ASN:HB2	1.93	0.51
1:G:751:HIS:CE1	1:G:754:CYS:N	2.79	0.51
1:G:835:VAL:HG12	1:G:839:LEU:HG	1.92	0.51
1:G:1229:HIS:CD2	1:G:1248:GLN:HG2	2.45	0.51
1:A:84:PHE:CE2	1:A:87:LEU:HB3	2.44	0.51
1:A:195:LEU:O	1:A:195:LEU:HD12	2.09	0.51
1:A:732:LEU:HD13	1:A:736:VAL:HG21	1.91	0.51
1:B:754:CYS:SG	1:B:908:LEU:HD11	2.50	0.51
1:B:842:MET:CG	4:h:61:LEU:HD21	2.36	0.51
1:B:1059:VAL:HG23	1:B:1119:VAL:CG2	2.40	0.51
1:B:1204:ASN:ND2	1:B:1205:PRO:HD2	2.24	0.51
1:C:272:ARG:HE	1:C:374:LEU:HG	1.74	0.51
1:C:533:GLN:CB	1:C:534:PRO:HD3	2.41	0.51
1:D:838:THR:HG23	4:k:94:LEU:CA	2.41	0.51
1:E:917:GLY:O	1:E:1032:SER:HB2	2.09	0.51
1:H:90:MET:CG	1:H:126:ARG:HH12	2.22	0.51
1:H:129:LEU:CD1	1:H:1097:ARG:NE	2.56	0.51
1:H:1013:SER:OG	1:H:1020:LEU:HD22	2.10	0.51
1:H:1084:GLU:O	1:H:1085:THR:OG1	2.18	0.51
1:H:1095:GLN:NE2	1:H:1097:ARG:NH2	2.57	0.51
1:I:11:TYR:HB2	1:I:38:PHE:CE2	2.45	0.51
1:I:147:ALA:O	1:I:148:LEU:HD22	2.10	0.51
1:I:574:THR:HG23	1:I:1003:ARG:HH21	1.75	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:771:VAL:HG12	1:I:901:MET:HE1	1.91	0.51
1:J:157:ARG:HH11	1:K:89:TYR:HE1	1.58	0.51
1:J:861:PRO:HA	1:J:866:HIS:CG	2.45	0.51
1:J:1197:ASN:OD1	1:J:1200:ARG:NH2	2.43	0.51
1:K:198:LEU:HD22	1:K:254:ALA:HB1	1.91	0.51
1:K:494:PRO:HB3	1:K:757:ASP:CB	2.30	0.51
1:K:834:ARG:HG2	4:q:94:LEU:CB	2.40	0.51
1:K:1196:ILE:O	1:K:1197:ASN:OD1	2.29	0.51
1:L:147:ALA:O	1:L:148:LEU:HD12	2.10	0.51
1:M:279:VAL:HG12	1:M:394:LEU:HD11	1.93	0.51
1:M:883:ARG:NH2	4:r:88:LEU:HD12	2.20	0.51
1:N:707:PHE:CD1	1:N:1044:LEU:HB2	2.46	0.51
1:O:1202:PRO:O	1:O:1331:ALA:O	2.28	0.51
1:P:752:ARG:CZ	1:P:927:ARG:NH1	2.73	0.51
2:Q:124:GLN:CA	2:Q:124:GLN:NE2	2.72	0.51
3:S:350:LEU:N	3:S:350:LEU:HD12	2.26	0.51
2:T:180:TYR:HD2	2:T:185:ARG:N	2.09	0.51
2:U:67:TYR:O	2:U:291:LEU:HD21	2.11	0.51
3:V:316:TYR:HA	3:V:324:LEU:O	2.10	0.51
2:W:145:THR:OG1	2:W:146:PRO:HD3	2.11	0.51
2:W:272:TYR:HD2	2:X:161:ARG:CG	2.09	0.51
2:Z:203:ARG:HH22	2:Z:207:LEU:HD11	1.72	0.51
2:a:159:GLY:O	2:a:163:LEU:N	2.44	0.51
2:a:236:TYR:O	2:a:237:VAL:CB	2.57	0.51
3:b:310:LEU:CD1	3:b:455:VAL:HG13	2.40	0.51
2:d:92:LEU:HD23	2:d:316:ARG:HG3	1.91	0.51
3:e:137:PRO:N	3:e:138:THR:CA	2.74	0.51
3:e:316:TYR:HA	3:e:324:LEU:O	2.09	0.51
1:G:406:LEU:HD23	1:G:440:LEU:HB2	1.92	0.51
1:A:71:LEU:HD11	1:A:306:TYR:HE1	1.75	0.51
1:A:104:ILE:HD12	1:B:390:VAL:HB	1.91	0.51
1:A:111:PRO:HG3	2:Q:301:ASP:CB	2.40	0.51
1:A:195:LEU:CD1	1:A:199:LEU:HG	2.41	0.51
1:B:23:ILE:HD12	1:B:65:LEU:HD11	1.92	0.51
1:B:1191:PRO:O	1:B:1194:THR:OG1	2.27	0.51
1:B:1277:PHE:N	1:B:1277:PHE:CD1	2.78	0.51
1:C:267:ALA:HB3	1:C:274:VAL:O	2.09	0.51
1:C:280:THR:HG22	1:C:1063:VAL:HG12	1.93	0.51
1:C:305:THR:CG2	1:C:306:TYR:N	2.73	0.51
1:D:467:MET:SD	1:D:575:TRP:NE1	2.83	0.51
1:D:840:GLN:OE1	4:j:58:ALA:CA	2.57	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:840:GLN:OE1	4:j:58:ALA:CB	2.59	0.51
1:D:903:GLU:HG2	1:D:904:ARG:N	2.25	0.51
1:D:1174:ARG:NH1	1:D:1174:ARG:CB	2.73	0.51
1:E:739:CYS:O	1:E:743:MET:HG2	2.10	0.51
1:E:805:TRP:O	1:E:809:HIS:ND1	2.34	0.51
1:E:903:GLU:HG2	1:E:904:ARG:N	2.25	0.51
1:F:182:ASP:O	1:F:186:HIS:ND1	2.39	0.51
1:F:207:ASN:O	1:F:207:ASN:CG	2.51	0.51
1:F:589:VAL:HG13	1:F:1009:HIS:CD2	2.44	0.51
1:F:759:GLY:CA	1:F:779:ASN:O	2.58	0.51
1:H:527:THR:HG22	1:H:528:ALA:H	1.74	0.51
1:H:527:THR:OG1	1:H:585:ALA:O	2.28	0.51
1:H:766:ALA:HB3	1:H:784:LEU:HD23	1.93	0.51
1:I:493:ALA:CB	1:I:755:ARG:HH12	2.23	0.51
1:K:74:GLY:O	1:K:277:VAL:CG2	2.59	0.51
1:K:1051:THR:HG23	1:K:1188:ILE:HB	1.92	0.51
1:L:279:VAL:O	1:L:279:VAL:HG12	2.10	0.51
1:L:756:ILE:HG22	1:L:908:LEU:HD11	1.87	0.51
1:M:261:VAL:HB	1:M:1068:ARG:HH12	1.76	0.51
1:M:298:THR:HG22	1:M:300:ALA:O	2.09	0.51
1:N:308:GLU:OE1	3:V:78:ALA:HB2	2.10	0.51
1:N:1165:VAL:HG12	3:V:140:LEU:HD11	1.58	0.51
1:O:267:ALA:C	1:O:274:VAL:HG23	2.09	0.51
1:O:445:LYS:HB3	1:O:1122:MET:HB2	1.93	0.51
1:P:884:VAL:HG12	1:P:886:VAL:HG23	1.93	0.51
2:Q:180:TYR:CD2	2:Q:185:ARG:CB	2.92	0.51
2:R:295:VAL:HG13	2:R:314:VAL:HG13	1.92	0.51
2:T:296:ARG:O	2:T:314:VAL:HG13	2.10	0.51
2:X:70:ARG:O	3:Y:337:ARG:NH2	2.44	0.51
2:X:298:CYS:HB2	2:X:315:ILE:HD13	1.92	0.51
2:Z:124:GLN:CA	2:Z:124:GLN:NE2	2.72	0.51
3:b:107:ARG:O	3:b:108:TYR:HD2	1.94	0.51
3:b:214:ASN:ND2	3:b:441:ARG:CB	2.73	0.51
3:b:287:THR:CG2	3:b:288:ILE:N	2.73	0.51
2:c:296:ARG:O	2:c:314:VAL:HG13	2.10	0.51
3:e:211:ILE:HG12	3:e:215:TYR:CE1	2.44	0.51
4:f:1:MET:H2	4:f:5:GLN:CB	2.22	0.51
4:h:19:ALA:C	4:h:20:LEU:HD12	2.35	0.51
4:h:46:THR:CG2	4:h:50:VAL:HG11	2.18	0.51
1:G:84:PHE:C	1:G:86:GLU:H	2.17	0.51
1:G:289:LEU:HD22	1:G:377:LEU:HD23	1.91	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:586:LEU:HD23	1:G:1245:TRP:CZ2	2.45	0.51
1:G:1084:GLU:HG3	1:G:1089:VAL:HG12	1.92	0.51
1:G:1171:VAL:HG13	1:G:1172:PRO:CD	2.40	0.51
1:A:194:PRO:HG3	1:A:197:LEU:HD12	1.93	0.51
1:A:224:LYS:HE3	1:A:1330:GLU:OE1	2.10	0.51
1:A:320:LEU:N	1:A:320:LEU:CD1	2.73	0.51
1:A:1054:ARG:NH1	1:A:1122:MET:O	2.43	0.51
1:B:1198:TYR:HD1	1:B:1198:TYR:O	1.94	0.51
1:C:861:PRO:HA	1:C:866:HIS:CG	2.46	0.51
1:D:276:GLY:C	1:D:375:VAL:HG13	2.35	0.51
1:D:284:ILE:HD11	1:D:1113:ALA:HB3	1.92	0.51
1:D:1100:VAL:CG1	1:D:1101:ASP:N	2.72	0.51
1:E:200:PRO:HB3	1:E:222:GLU:OE1	2.10	0.51
1:E:646:ARG:NH2	4:k:78:MET:CB	2.73	0.51
1:E:730:ALA:CB	1:E:750:ARG:HH12	2.23	0.51
1:F:232:PHE:HZ	1:F:398:MET:SD	2.32	0.51
1:F:765:TYR:HD1	1:F:783:LEU:HB2	1.75	0.51
1:F:907:ALA:HB1	1:F:994:LEU:HD21	1.92	0.51
1:F:1197:ASN:HD22	1:F:1200:ARG:NH2	1.99	0.51
1:F:1300:VAL:HG12	1:F:1300:VAL:O	2.10	0.51
1:H:889:PRO:CD	4:m:69:ALA:HB2	2.27	0.51
1:H:976:PHE:CE2	1:H:981:ARG:HD2	2.45	0.51
1:H:1082:ARG:HD3	1:H:1091:PHE:CE2	2.45	0.51
1:H:1201:ARG:NH1	1:I:448:GLN:HE21	1.56	0.51
1:I:436:PRO:HB3	1:I:591:PHE:CE1	2.41	0.51
1:I:733:PRO:HG2	1:I:736:VAL:HG22	1.92	0.51
1:J:312:ASN:HA	1:J:316:LEU:HG	1.92	0.51
1:K:436:PRO:HD2	1:K:598:GLU:OE1	2.11	0.51
1:K:530:GLN:CA	1:K:536:ASN:HD21	2.10	0.51
1:L:299:GLU:HB2	1:L:364:ARG:CZ	2.41	0.51
1:M:840:GLN:HA	4:f:61:LEU:HD11	1.92	0.51
1:M:1008:GLN:HE22	1:M:1011:ARG:NH1	2.08	0.51
1:M:1155:ASN:HB2	1:M:1158:GLY:CA	2.40	0.51
1:M:1160:ALA:O	1:M:1161:GLN:HG3	2.10	0.51
1:M:1198:TYR:O	1:M:1199:PHE:HB2	2.10	0.51
1:N:454:MET:HE2	1:N:1050:PHE:CD2	2.45	0.51
1:N:1232:SER:HB2	1:N:1237:PRO:O	2.10	0.51
1:O:280:THR:O	1:O:392:TYR:OH	2.24	0.51
1:O:512:ARG:NH2	1:O:563:VAL:HG11	2.25	0.51
1:P:70:PHE:O	1:P:76:SER:OG	2.27	0.51
1:P:265:THR:C	1:P:267:ALA:N	2.66	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:529:GLU:HA	1:P:532:MET:SD	2.51	0.51
1:P:797:ASP:OD1	1:P:798:ARG:N	2.39	0.51
2:Q:145:THR:OG1	2:Q:146:PRO:HD3	2.11	0.51
2:Q:220:ILE:HD12	2:R:209:MET:HB2	1.92	0.51
2:Q:296:ARG:O	2:Q:314:VAL:HG13	2.11	0.51
2:R:134:ASP:O	2:R:135:LEU:CG	2.56	0.51
3:S:254:TRP:CE3	3:S:254:TRP:N	2.73	0.51
2:T:112:ASP:HA	2:T:295:VAL:O	2.09	0.51
2:W:272:TYR:CE2	2:X:161:ARG:CA	2.93	0.51
2:Z:112:ASP:HA	2:Z:295:VAL:O	2.09	0.51
2:Z:272:TYR:CZ	2:a:160:ILE:CG2	2.74	0.51
2:a:68:ARG:HD2	3:b:337:ARG:O	2.10	0.51
2:a:74:VAL:O	2:a:85:ALA:CB	2.59	0.51
3:b:271:GLN:O	3:b:274:THR:CG2	2.50	0.51
3:b:335:PRO:O	3:b:337:ARG:N	2.43	0.51
2:c:272:TYR:HD2	2:d:161:ARG:CD	2.24	0.51
2:d:175:ASP:C	2:d:177:ASN:H	2.18	0.51
2:d:246:VAL:HG12	2:d:247:THR:N	2.26	0.51
4:m:107:LYS:CG	4:m:108:THR:N	2.73	0.51
1:G:159:LEU:O	1:G:163:GLN:HG2	2.10	0.51
1:G:294:LYS:CG	1:G:295:VAL:N	2.72	0.51
1:G:298:THR:CG2	1:G:362:ARG:HG2	2.40	0.51
1:G:864:PRO:HG3	1:G:888:GLY:HA2	1.92	0.51
1:G:1223:ILE:HG22	1:G:1223:ILE:O	2.11	0.51
1:B:23:ILE:HD12	1:B:65:LEU:HD21	1.92	0.51
1:B:1315:PRO:O	3:S:260:LEU:HD21	2.10	0.51
1:C:1198:TYR:CZ	1:C:1203:CYS:HB2	2.46	0.51
1:D:77:VAL:HG12	1:D:277:VAL:HG22	1.92	0.51
1:D:1133:ARG:NH1	2:X:196:ALA:HB2	2.26	0.51
1:E:269:THR:HG21	1:E:298:THR:CB	2.40	0.51
1:E:467:MET:HE3	1:E:1032:SER:HA	1.93	0.51
1:E:1259:GLY:HA3	1:E:1274:PHE:CE1	2.43	0.51
1:F:470:ASP:OD1	1:F:471:ALA:N	2.43	0.51
1:F:847:ILE:HG21	4:l:70:ASN:C	2.34	0.51
1:F:1197:ASN:HD21	1:F:1200:ARG:NH2	2.09	0.51
1:H:196:ALA:HB1	1:H:227:PHE:HA	1.91	0.51
1:H:758:ALA:HB2	1:H:904:ARG:NH2	2.26	0.51
1:H:840:GLN:CD	4:m:58:ALA:CB	2.82	0.51
1:J:232:PHE:O	1:J:236:LYS:HG3	2.11	0.51
1:J:274:VAL:HG13	1:J:374:LEU:O	2.10	0.51
1:J:340:GLN:O	1:J:341:GLU:HG3	2.10	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:457:ALA:HB1	1:J:1050:PHE:CD2	2.46	0.51
1:J:666:ASN:HB3	1:J:940:MET:HG3	1.92	0.51
1:J:1046:PRO:HG2	1:J:1048:PHE:O	2.11	0.51
1:K:495:ALA:O	1:K:504:ARG:NH1	2.43	0.51
1:M:247:TRP:HE3	1:M:248:LEU:HD12	1.75	0.51
1:M:1037:TYR:HE2	1:M:1151:VAL:HG22	1.75	0.51
1:N:78:ALA:HA	1:N:1067:GLU:O	2.11	0.51
1:N:1198:TYR:O	1:N:1199:PHE:CD2	2.64	0.51
1:O:487:TYR:CE1	1:O:505:PHE:HZ	2.28	0.51
1:P:269:THR:O	1:P:269:THR:HG23	2.09	0.51
1:P:1291:ARG:O	1:P:1294:VAL:HG22	2.10	0.51
2:R:38:ARG:NE	3:S:305:PRO:O	2.27	0.51
2:R:121:PHE:CE1	2:R:186:LEU:HB3	2.46	0.51
2:R:298:CYS:HB2	2:R:315:ILE:HD13	1.92	0.51
2:T:155:LEU:CD1	2:T:188:LEU:HD21	2.40	0.51
2:U:298:CYS:HB2	2:U:315:ILE:HD13	1.92	0.51
3:V:130:LEU:HB2	3:V:187:PHE:HB2	1.90	0.51
3:V:211:ILE:HA	3:V:215:TYR:HD1	1.76	0.51
3:V:349:ARG:CZ	3:V:351:ARG:NH1	2.73	0.51
2:W:296:ARG:O	2:W:314:VAL:HG13	2.11	0.51
3:Y:33:LEU:O	3:Y:36:VAL:HG23	2.03	0.51
3:Y:437:HIS:C	3:Y:449:VAL:HG12	2.36	0.51
3:b:279:PRO:CG	3:b:283:CYS:N	2.72	0.51
3:b:292:ALA:HB3	3:b:295:ASP:HB2	1.77	0.51
2:c:177:ASN:ND2	2:c:189:VAL:N	2.58	0.51
1:G:147:ALA:C	1:G:150:GLY:H	2.19	0.51
1:G:452:LEU:CD2	1:G:456:ASN:ND2	2.73	0.51
1:A:112:VAL:HG11	1:B:132:ALA:CA	2.41	0.51
1:A:288:LEU:HD11	1:A:293:LEU:HD22	1.92	0.51
1:B:77:VAL:O	1:B:1068:ARG:O	2.28	0.51
1:B:873:ASN:OD1	4:i:92:PHE:CB	2.59	0.51
1:C:97:PHE:HD2	1:M:36:PHE:HE2	1.58	0.51
1:C:733:PRO:HG2	1:C:736:VAL:HG22	1.92	0.51
1:C:847:ILE:HG22	4:i:67:THR:O	2.10	0.51
1:C:873:ASN:CG	4:j:92:PHE:CB	2.84	0.51
1:E:828:ALA:CB	1:E:956:TYR:O	2.58	0.51
1:F:784:LEU:HD11	1:F:902:ALA:HA	1.91	0.51
1:F:960:VAL:HA	1:F:994:LEU:HD13	1.93	0.51
1:H:107:ASP:CB	1:I:128:ALA:O	2.59	0.51
1:H:288:LEU:CD1	1:H:292:PHE:HB2	2.40	0.51
1:H:1060:THR:HA	1:H:1115:VAL:HA	1.92	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:380:LEU:HD13	1:I:384:ILE:HG13	1.93	0.51
1:I:903:GLU:HG2	1:I:904:ARG:N	2.25	0.51
1:I:947:HIS:HB2	1:J:638:GLU:CD	2.32	0.51
1:J:159:LEU:O	1:J:163:GLN:HG2	2.11	0.51
1:J:248:LEU:HD21	1:J:293:LEU:HD21	1.92	0.51
1:J:403:VAL:C	1:J:1052:VAL:O	2.51	0.51
1:J:1159:PRO:HA	1:J:1170:GLN:O	2.11	0.51
1:J:1335:THR:HA	1:J:1364:TYR:CA	2.40	0.51
1:K:24:LEU:O	1:K:24:LEU:HD12	2.11	0.51
1:K:439:GLN:HE21	1:K:451:ARG:HH12	1.49	0.51
1:K:1218:LYS:CE	1:L:1173:ARG:HH22	1.82	0.51
1:L:71:LEU:CG	1:L:304:VAL:O	2.59	0.51
1:L:644:LEU:O	1:L:647:LEU:N	2.43	0.51
1:M:624:PRO:HG2	1:M:627:PHE:CD2	2.46	0.51
1:M:713:GLU:HG2	1:M:718:ALA:HA	1.93	0.51
1:M:1251:SER:O	1:M:1255:LEU:HG	2.10	0.51
1:M:1347:ARG:CG	1:M:1347:ARG:NH2	2.72	0.51
1:N:1121:ASP:CG	1:N:1179:HIS:HB2	2.35	0.51
1:N:1218:LYS:HG3	1:O:1173:ARG:NH2	2.15	0.51
1:O:527:THR:CG2	1:O:528:ALA:N	2.72	0.51
1:O:846:GLU:CD	4:s:67:THR:OG1	2.54	0.51
1:O:1223:ILE:CD1	1:O:1227:TYR:CD2	2.94	0.51
2:Q:37:ILE:HG22	2:Q:37:ILE:O	2.11	0.51
2:Q:155:LEU:HD12	2:Q:188:LEU:HD21	1.91	0.51
2:T:90:LEU:HD13	2:U:300:PHE:HE1	1.76	0.51
3:V:112:ARG:CG	3:V:112:ARG:NH2	2.73	0.51
2:W:119:PRO:HG3	2:W:138:ARG:NH2	2.25	0.51
3:Y:189:PHE:HA	3:Y:211:ILE:HD13	1.93	0.51
3:Y:200:ALA:O	3:Y:204:ALA:CB	2.59	0.51
2:a:291:LEU:H	2:a:291:LEU:HD12	1.74	0.51
3:b:163:GLN:NE2	3:b:163:GLN:N	2.59	0.51
2:c:119:PRO:HG3	2:c:138:ARG:NH2	2.25	0.51
3:e:81:ASP:O	3:e:85:GLN:HG2	2.10	0.51
3:e:112:ARG:CG	3:e:112:ARG:NH2	2.73	0.51
3:e:200:ALA:HB3	3:e:294:VAL:HG13	1.91	0.51
4:h:3:ALA:C	4:h:40:TYR:CB	2.74	0.51
4:h:22:MET:HA	4:h:25:LEU:HD12	1.91	0.51
1:A:766:ALA:HB2	1:A:782:ARG:HH11	1.76	0.51
1:B:252:THR:O	1:B:253:THR:OG1	2.25	0.51
1:B:642:CYS:HA	1:B:645:ALA:HB2	1.91	0.51
1:B:752:ARG:HD2	1:B:927:ARG:NH2	2.25	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1314:PRO:HB2	1:B:1315:PRO:CD	2.40	0.51
1:D:596:GLY:HA3	1:D:1023:ALA:HB2	1.92	0.51
1:F:347:ASN:O	1:F:348:ARG:HG2	2.11	0.51
1:F:536:ASN:C	1:F:538:ASN:H	2.19	0.51
1:H:606:MET:H	1:H:1018:ASN:HD21	1.59	0.51
1:H:644:LEU:HD23	1:H:647:LEU:HD23	1.92	0.51
1:H:1201:ARG:NH1	1:I:448:GLN:CD	2.60	0.51
1:J:153:ILE:O	1:J:157:ARG:HG2	2.11	0.51
1:J:400:LEU:HD23	1:J:1369:LEU:CD2	2.36	0.51
1:J:401:THR:HB	1:J:1055:GLN:HG3	1.91	0.51
1:J:417:ALA:HB1	1:J:1357:HIS:NE2	2.25	0.51
1:J:903:GLU:HG2	1:J:904:ARG:HG2	1.93	0.51
1:J:983:LEU:O	1:J:987:VAL:HB	2.10	0.51
1:K:776:PHE:CD2	1:K:833:ASP:HB3	2.46	0.51
1:K:829:GLY:O	1:K:955:PHE:HA	2.10	0.51
1:K:1013:SER:OG	1:K:1020:LEU:HD22	2.11	0.51
1:L:214:VAL:HG21	1:M:1307:SER:O	2.10	0.51
1:L:267:ALA:HA	1:L:274:VAL:N	2.22	0.51
1:M:917:GLY:O	1:M:918:ALA:HB3	2.09	0.51
1:M:1301:SER:HB3	1:M:1321:VAL:CG2	2.41	0.51
1:N:833:ASP:OD1	1:N:834:ARG:N	2.43	0.51
1:N:1119:VAL:HG12	1:N:1119:VAL:O	2.10	0.51
1:O:117:HIS:HE1	1:P:168:ASN:ND2	2.04	0.51
1:O:681:ASP:O	1:O:682:LEU:HD12	2.10	0.51
1:P:99:VAL:HG22	1:P:120:MET:HE1	1.91	0.51
2:Q:106:VAL:HG12	2:Q:305:VAL:HG13	1.83	0.51
2:Q:295:VAL:HG11	2:Q:314:VAL:HG11	1.79	0.51
2:U:121:PHE:CE1	2:U:186:LEU:HB3	2.46	0.51
2:U:246:VAL:HG12	2:U:247:THR:N	2.26	0.51
3:V:134:LEU:O	3:V:134:LEU:HG	2.11	0.51
3:V:189:PHE:HA	3:V:211:ILE:HD13	1.93	0.51
2:X:67:TYR:O	2:X:291:LEU:HD21	2.11	0.51
3:Y:209:ALA:C	3:Y:445:VAL:HG21	2.35	0.51
3:Y:274:THR:OG1	3:Y:275:HIS:N	2.38	0.51
3:Y:447:VAL:O	3:Y:448:PRO:C	2.53	0.51
2:Z:37:ILE:O	2:Z:37:ILE:HG22	2.10	0.51
2:Z:145:THR:OG1	2:Z:146:PRO:HD3	2.11	0.51
2:Z:181:TYR:C	2:Z:181:TYR:CD1	2.89	0.51
2:a:30:ARG:CA	2:a:75:ILE:HD13	2.41	0.51
2:a:67:TYR:O	2:a:291:LEU:HD21	2.11	0.51
4:h:26:VAL:O	4:h:30:ASN:HB2	2.11	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:469:ILE:O	1:G:470:ASP:C	2.54	0.51
1:G:1171:VAL:O	2:R:180:TYR:CE2	2.64	0.51
1:G:1200:ARG:HG3	1:G:1363:ILE:HG23	1.93	0.51
1:G:1259:GLY:H	1:G:1278:THR:HG22	1.76	0.51
1:A:433:ARG:HH12	1:A:1341:ALA:HB3	1.75	0.51
1:A:483:ALA:H	1:A:569:GLY:CA	2.24	0.51
1:A:604:HIS:HD2	1:A:696:HIS:CD2	2.29	0.51
1:A:1355:GLU:CD	1:B:1344:ARG:HE	2.19	0.51
1:B:278:LEU:HG	1:B:375:VAL:HG11	1.93	0.51
1:B:1152:VAL:HG13	1:B:1159:PRO:HD2	1.93	0.51
1:B:1278:THR:HG23	1:B:1282:ILE:HD12	1.93	0.51
1:C:579:ASN:C	1:C:582:LEU:HD12	2.36	0.51
1:C:873:ASN:OD1	4:j:92:PHE:CA	2.59	0.51
1:D:252:THR:HG22	1:D:373:ARG:HD3	1.92	0.51
1:D:260:ALA:HB2	1:I:24:LEU:HD11	1.92	0.51
1:D:534:PRO:HG3	1:E:1154:GLY:C	2.36	0.51
1:E:161:ALA:HA	1:I:50:TYR:CZ	2.46	0.51
1:E:487:TYR:CD2	1:E:520:TRP:CZ2	2.98	0.51
1:E:559:PRO:O	1:E:755:ARG:NH1	2.37	0.51
1:E:606:MET:HB2	1:E:1018:ASN:HD21	1.75	0.51
1:F:804:ASP:O	1:F:808:HIS:ND1	2.33	0.51
1:H:277:VAL:HG13	1:H:376:PHE:HB2	1.92	0.51
1:I:1229:HIS:HE2	1:I:1241:THR:CG2	2.24	0.51
1:J:84:PHE:CE2	1:J:90:MET:HE1	2.44	0.51
1:J:408:LEU:CB	1:J:1196:ILE:HD11	2.41	0.51
1:J:463:HIS:CG	1:J:464:PRO:HD2	2.45	0.51
1:J:526:MET:C	1:J:527:THR:O	2.40	0.51
1:J:696:HIS:HE1	1:J:1021:THR:HB	1.76	0.51
1:K:403:VAL:C	1:K:404:LEU:HD12	2.36	0.51
1:K:784:LEU:CD1	1:K:903:GLU:CD	2.81	0.51
1:L:291:SER:N	1:L:294:LYS:HE2	2.26	0.51
1:L:876:ASN:HA	1:L:879:PHE:HD2	1.75	0.51
1:M:97:PHE:HE2	1:M:122:LYS:HD2	1.75	0.51
1:M:311:LEU:HD22	1:M:315:ASN:HB3	1.93	0.51
1:M:915:ASP:OD1	1:M:917:GLY:O	2.29	0.51
1:M:1095:GLN:NE2	1:M:1097:ARG:HH21	2.09	0.51
1:M:1181:GLN:NE2	1:M:1304:THR:O	2.29	0.51
1:N:107:ASP:O	1:N:110:HIS:HE1	1.89	0.51
1:N:291:SER:OG	1:N:292:PHE:N	2.39	0.51
1:N:467:MET:HE3	1:N:918:ALA:HA	1.93	0.51
1:N:520:TRP:HH2	1:N:988:PRO:CD	2.23	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:658:ASN:O	1:O:684:GLU:HB2	2.11	0.51
1:N:1221:ASP:O	1:N:1222:VAL:C	2.52	0.51
1:N:1291:ARG:O	1:N:1294:VAL:HG22	2.10	0.51
1:O:293:LEU:HD12	1:O:293:LEU:O	2.11	0.51
1:O:598:GLU:O	1:O:601:VAL:HG22	2.11	0.51
1:O:674:ILE:HG23	1:O:678:LEU:HD12	1.93	0.51
1:O:1206:ARG:HH21	1:O:1206:ARG:CG	2.24	0.51
1:O:1270:LEU:HD22	1:O:1303:ALA:HB2	1.92	0.51
1:P:80:VAL:HG21	1:P:261:VAL:HG21	1.91	0.51
1:P:151:THR:HG23	1:P:151:THR:O	2.11	0.51
1:P:506:LEU:HB3	1:P:977:PRO:HG2	1.92	0.51
1:P:867:PRO:CG	4:p:78:MET:O	2.59	0.51
2:Q:63:LEU:O	2:Q:67:TYR:HD1	1.94	0.51
2:Q:90:LEU:HD13	2:R:300:PHE:HE1	1.76	0.51
2:R:246:VAL:HG12	2:R:247:THR:N	2.26	0.51
3:S:82:ASP:CA	3:S:85:GLN:NE2	2.73	0.51
2:U:70:ARG:O	3:V:337:ARG:NH2	2.44	0.51
2:U:231:SER:O	2:U:238:ASN:OD1	2.28	0.51
2:W:60:THR:HG23	2:W:201:GLU:HB3	1.93	0.51
3:Y:437:HIS:O	3:Y:449:VAL:C	2.54	0.51
2:Z:155:LEU:CD1	2:Z:188:LEU:HD21	2.40	0.51
2:a:264:ASP:HB3	3:b:150:PRO:HG2	1.92	0.51
2:c:155:LEU:HD12	2:c:188:LEU:HD21	1.91	0.51
4:i:18:ARG:O	4:i:19:ALA:HB3	2.10	0.51
4:k:8:ARG:CB	4:k:18:ARG:CB	2.88	0.51
4:t:8:ARG:CB	4:t:18:ARG:N	2.74	0.51
4:t:26:VAL:O	4:t:30:ASN:HB2	2.11	0.51
1:G:521:VAL:CG2	1:G:522:ALA:H	2.21	0.51
1:G:527:THR:HG22	1:G:528:ALA:H	1.76	0.51
1:G:550:PHE:HE2	1:G:574:THR:HG22	1.76	0.51
1:G:563:VAL:CG1	1:G:564:PRO:HD2	2.40	0.51
1:G:1288:CYS:C	1:G:1292:LEU:HG	2.36	0.51
1:A:224:LYS:CE	1:A:1330:GLU:OE1	2.59	0.51
1:A:269:THR:CB	1:A:362:ARG:NH1	2.71	0.51
1:A:1227:TYR:CD2	1:A:1249:ARG:NH2	2.79	0.51
1:B:1091:PHE:CE2	3:S:90:ILE:CG2	2.93	0.51
1:B:1225:LEU:HD22	1:B:1234:PRO:HG2	1.93	0.51
1:B:1318:ARG:NH2	3:S:257:GLN:CB	2.63	0.51
1:C:591:PHE:HZ	1:C:1045:HIS:CD2	2.29	0.51
1:C:626:VAL:HG23	1:C:627:PHE:CD1	2.46	0.51
1:C:764:VAL:O	1:C:783:LEU:N	2.44	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:933:LEU:CD2	1:C:958:LEU:CD2	2.87	0.51
1:D:302:VAL:HA	1:D:361:THR:O	2.11	0.51
1:D:1026:ALA:HA	1:D:1029:PHE:CE2	2.46	0.51
1:D:1174:ARG:HB3	1:D:1174:ARG:NH1	2.19	0.51
1:E:919:ASN:O	1:E:923:THR:OG1	2.28	0.51
1:F:732:LEU:HD13	1:F:736:VAL:HG21	1.92	0.51
1:F:797:ASP:OD1	1:F:798:ARG:N	2.41	0.51
1:H:285:LYS:HG3	1:H:377:LEU:HD21	1.92	0.51
1:H:629:LEU:O	1:H:633:ALA:N	2.39	0.51
1:I:506:LEU:HD21	1:I:989:LEU:HD23	1.91	0.51
1:I:548:ASP:O	1:I:573:ALA:HA	2.11	0.51
1:I:737:TRP:CZ3	1:I:935:ALA:HB1	2.46	0.51
1:J:542:GLU:C	1:J:543:LEU:HD12	2.36	0.51
1:J:929:PHE:HD2	1:J:999:PHE:HB3	1.76	0.51
1:K:96:GLN:HA	1:K:121:THR:HA	1.92	0.51
1:K:949:ILE:HG22	1:K:953:GLU:OE1	2.11	0.51
1:K:1229:HIS:CD2	1:K:1241:THR:CG2	2.91	0.51
1:L:56:ALA:HB3	1:L:58:LEU:HD11	1.93	0.51
1:L:74:GLY:N	1:L:378:GLU:OE2	2.44	0.51
1:L:871:VAL:O	1:L:874:THR:HG22	2.11	0.51
1:L:1133:ARG:O	1:L:1133:ARG:HG3	2.11	0.51
1:L:1218:LYS:O	1:L:1218:LYS:HG3	2.10	0.51
1:N:258:SER:CB	1:N:1069:ALA:O	2.59	0.51
1:O:580:GLY:O	1:O:1006:VAL:CG2	2.59	0.51
1:O:845:PRO:HG3	1:O:869:ASN:OD1	2.11	0.51
1:P:272:ARG:HG2	1:P:374:LEU:HD12	1.92	0.51
1:P:487:TYR:CE1	1:P:505:PHE:HZ	2.22	0.51
2:Q:121:PHE:O	2:Q:122:GLU:C	2.54	0.51
2:W:90:LEU:HD13	2:X:300:PHE:HE1	1.76	0.51
2:W:106:VAL:HG11	2:W:305:VAL:HG11	1.84	0.51
2:Z:155:LEU:HD12	2:Z:188:LEU:HD21	1.91	0.51
2:Z:295:VAL:HG12	2:Z:314:VAL:CG1	2.34	0.51
2:a:35:PRO:HA	2:a:70:ARG:CZ	2.40	0.51
2:a:88:VAL:HG13	2:a:295:VAL:HG21	1.90	0.51
2:a:291:LEU:HB3	3:b:337:ARG:CD	2.41	0.51
2:a:295:VAL:HG13	2:a:314:VAL:HG13	1.92	0.51
3:b:206:ALA:HB3	3:b:447:VAL:HG12	1.89	0.51
2:c:63:LEU:O	2:c:67:TYR:HD1	1.94	0.51
2:c:155:LEU:CD1	2:c:188:LEU:HD21	2.40	0.51
2:d:67:TYR:O	2:d:291:LEU:HD21	2.11	0.51
3:e:300:LEU:CD1	3:e:332:SER:CB	2.88	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:e:335:PRO:O	3:e:336:PRO:C	2.53	0.51
4:h:21:GLY:O	4:h:25:LEU:HD12	2.10	0.51
4:o:26:VAL:O	4:o:30:ASN:HB2	2.11	0.51
4:t:106:PRO:CG	4:t:107:LYS:N	2.73	0.51
1:G:285:LYS:O	1:G:288:LEU:HB3	2.11	0.50
1:A:797:ASP:OD1	1:A:798:ARG:N	2.43	0.50
1:A:874:THR:HG23	1:A:877:ALA:H	1.76	0.50
1:A:920:THR:HG23	1:A:1138:LEU:HD23	1.94	0.50
1:A:1079:GLN:HE21	1:A:1094:THR:HG23	1.75	0.50
1:B:133:PHE:CE2	1:B:135:LEU:HB2	2.44	0.50
1:B:1061:GLU:HB2	1:B:1113:ALA:O	2.11	0.50
1:B:1314:PRO:HB2	1:B:1315:PRO:HD2	1.94	0.50
1:B:1314:PRO:CB	1:B:1315:PRO:CD	2.89	0.50
1:C:104:ILE:HG12	1:D:178:ARG:HB3	1.93	0.50
1:D:124:ILE:HG12	1:D:1100:VAL:HG21	1.90	0.50
1:D:426:ALA:HB3	1:D:429:HIS:CD2	2.46	0.50
1:D:486:PRO:O	1:D:509:TRP:HZ3	1.94	0.50
1:D:611:ILE:HG23	1:D:820:PHE:CE1	2.45	0.50
1:E:39:PHE:CE2	1:E:41:ARG:HG3	2.46	0.50
1:F:432:PRO:HA	1:F:435:PHE:CE2	2.46	0.50
1:F:591:PHE:HZ	1:F:1045:HIS:HD2	1.55	0.50
1:F:740:ASP:OD1	1:F:785:HIS:CE1	2.62	0.50
1:F:764:VAL:O	1:F:765:TYR:HD1	1.85	0.50
1:H:895:GLN:OE1	4:m:62:THR:HA	2.11	0.50
1:H:1251:SER:O	1:H:1254:ASP:N	2.45	0.50
1:I:842:MET:SD	4:n:61:LEU:CD2	2.99	0.50
1:I:1078:LEU:CG	3:Y:40:PRO:HD3	2.41	0.50
1:J:1201:ARG:O	1:J:1203:CYS:N	2.43	0.50
1:K:957:VAL:O	1:K:959:PRO:HD3	2.11	0.50
1:L:276:GLY:C	1:L:375:VAL:HG23	2.36	0.50
1:L:521:VAL:O	1:L:521:VAL:HG13	2.11	0.50
1:L:1291:ARG:C	1:L:1295:GLU:OE1	2.47	0.50
1:M:621:ARG:HH12	1:N:676:THR:HG23	1.71	0.50
1:N:300:ALA:O	1:N:301:ASP:HB3	2.11	0.50
1:N:1078:LEU:CG	3:V:82:ASP:OD1	2.59	0.50
1:O:269:THR:O	1:O:270:ARG:C	2.52	0.50
1:O:1131:LEU:HD23	1:O:1159:PRO:HG3	1.92	0.50
2:R:199:ASN:O	2:R:203:ARG:N	2.37	0.50
2:R:231:SER:O	2:R:238:ASN:OD1	2.28	0.50
3:S:162:GLY:O	3:S:166:GLU:N	2.41	0.50
2:T:63:LEU:O	2:T:67:TYR:HD1	1.94	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:V:271:GLN:O	3:V:274:THR:CG2	2.50	0.50
2:W:33:PHE:CB	2:W:70:ARG:CD	2.73	0.50
2:Z:98:VAL:O	2:Z:98:VAL:CG1	2.59	0.50
3:b:149:PRO:HG2	3:b:152:ARG:HH21	1.76	0.50
3:e:112:ARG:HG2	3:e:112:ARG:NH2	2.24	0.50
3:e:316:TYR:CE2	3:e:419:TYR:C	2.88	0.50
4:s:26:VAL:O	4:s:30:ASN:HB2	2.11	0.50
1:A:203:ARG:HD2	1:B:1116:ARG:NH2	2.26	0.50
1:B:38:PHE:O	1:B:39:PHE:HB2	2.11	0.50
1:B:106:ARG:HH21	1:C:390:VAL:HG22	1.75	0.50
1:B:1054:ARG:NH2	1:B:1122:MET:HA	2.26	0.50
1:B:1233:ASP:O	1:B:1236:ARG:C	2.54	0.50
1:C:266:HIS:ND1	1:C:266:HIS:O	2.44	0.50
1:C:536:ASN:C	1:C:538:ASN:N	2.64	0.50
1:D:486:PRO:O	1:D:509:TRP:CZ3	2.64	0.50
1:D:817:VAL:O	1:D:821:SER:OG	2.27	0.50
1:E:529:GLU:O	1:E:532:MET:HG2	2.11	0.50
1:E:624:PRO:HB2	1:E:626:VAL:HG22	1.92	0.50
1:F:1221:ASP:OD1	1:F:1222:VAL:N	2.42	0.50
1:H:826:CYS:SG	1:H:957:VAL:CG1	2.95	0.50
1:I:534:PRO:CG	1:I:535:ASP:H	2.24	0.50
1:I:586:LEU:HD23	1:I:1245:TRP:CH2	2.44	0.50
1:I:742:LEU:O	1:I:746:ALA:N	2.42	0.50
1:J:261:VAL:H	1:J:1068:ARG:NH2	2.02	0.50
1:J:487:TYR:CE1	1:J:513:LEU:CD1	2.94	0.50
1:J:1056:ASP:OD1	1:J:1120:THR:CG2	2.56	0.50
1:K:293:LEU:HD22	1:K:370:ILE:HD13	1.93	0.50
1:K:646:ARG:CZ	4:p:78:MET:CB	2.89	0.50
1:K:815:VAL:HG12	1:K:1021:THR:HG23	1.93	0.50
1:L:215:ALA:HA	1:L:218:THR:HG22	1.92	0.50
1:L:264:LEU:CD2	1:L:266:HIS:HD2	2.24	0.50
1:L:490:TYR:OH	1:L:561:GLY:O	2.15	0.50
1:L:646:ARG:CZ	4:q:78:MET:CB	2.89	0.50
1:L:1259:GLY:HA3	1:L:1274:PHE:CE1	2.46	0.50
1:M:399:ASP:OD2	1:M:1321:VAL:HG11	2.12	0.50
1:M:739:CYS:HB2	1:M:785:HIS:HB2	1.93	0.50
1:M:842:MET:CG	4:f:61:LEU:HD22	2.41	0.50
1:N:69:ARG:O	1:N:69:ARG:HG3	2.12	0.50
1:N:258:SER:OG	1:N:1069:ALA:O	2.28	0.50
1:N:778:ARG:HD3	1:N:903:GLU:OE2	2.11	0.50
1:O:304:VAL:HG23	1:O:305:THR:N	2.26	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:903:GLU:HG2	1:O:904:ARG:N	2.27	0.50
1:O:1232:SER:HB2	1:O:1237:PRO:O	2.11	0.50
2:Q:37:ILE:HD13	2:R:298:CYS:HG	1.73	0.50
2:Q:92:LEU:HD13	2:Q:93:THR:O	2.11	0.50
2:R:16:ILE:HG23	2:R:17:SER:N	2.27	0.50
3:S:189:PHE:HA	3:S:211:ILE:HD13	1.93	0.50
3:S:278:HIS:N	3:S:279:PRO:CD	2.70	0.50
2:T:37:ILE:HG22	2:T:37:ILE:O	2.10	0.50
2:T:181:TYR:CG	2:T:182:ASN:N	2.70	0.50
2:W:63:LEU:O	2:W:67:TYR:HD1	1.94	0.50
2:W:92:LEU:HD13	2:W:93:THR:O	2.11	0.50
2:W:155:LEU:CD1	2:W:188:LEU:HD21	2.40	0.50
2:W:189:VAL:HG12	2:W:191:ASP:H	1.77	0.50
2:W:227:LEU:CD1	2:W:227:LEU:C	2.84	0.50
2:X:246:VAL:HG12	2:X:247:THR:N	2.26	0.50
3:Y:211:ILE:HA	3:Y:215:TYR:HD1	1.76	0.50
3:Y:422:PHE:HA	3:Y:462:TRP:CZ3	2.46	0.50
2:Z:218:THR:O	2:Z:221:LEU:HG	2.11	0.50
2:a:21:ALA:O	2:a:25:GLN:HG2	2.11	0.50
2:a:246:VAL:HG12	2:a:247:THR:N	2.26	0.50
2:d:194:GLN:O	2:d:195:LEU:C	2.54	0.50
3:e:300:LEU:HD11	3:e:332:SER:HB2	1.92	0.50
4:s:33:GLN:C	4:t:99:SER:CB	2.85	0.50
1:G:195:LEU:HD12	1:G:199:LEU:CD2	2.39	0.50
1:A:106:ARG:NH1	1:A:106:ARG:CG	2.72	0.50
1:A:293:LEU:HD23	1:A:368:VAL:CG2	2.42	0.50
1:A:527:THR:O	1:A:528:ALA:HB2	2.11	0.50
1:A:1048:PHE:HA	1:A:1192:VAL:HG13	1.93	0.50
1:B:549:PHE:CE1	1:B:573:ALA:HB2	2.47	0.50
1:B:1059:VAL:HG12	1:B:1116:ARG:HD3	1.93	0.50
1:B:1223:ILE:O	1:B:1223:ILE:HG22	2.10	0.50
1:C:443:TRP:HH2	1:C:1346:ALA:O	1.94	0.50
1:C:497:PRO:HD2	1:C:504:ARG:NH2	2.26	0.50
1:C:752:ARG:HG2	1:C:927:ARG:NE	2.27	0.50
1:C:1211:GLY:O	1:C:1225:LEU:HD12	2.10	0.50
1:D:445:LYS:HB2	1:D:1122:MET:HB2	1.93	0.50
1:D:830:VAL:HG22	1:D:955:PHE:CE1	2.46	0.50
1:D:887:ASP:CG	1:D:889:PRO:HD2	2.36	0.50
1:D:953:GLU:HG2	1:D:954:TYR:CD2	2.46	0.50
1:E:853:CYS:CB	4:k:69:ALA:O	2.58	0.50
1:E:883:ARG:HD3	1:F:680:GLY:HA3	1.93	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:805:TRP:CE2	1:F:809:HIS:HE1	2.29	0.50
1:F:871:VAL:HG13	4:g:107:LYS:HZ3	1.74	0.50
1:H:304:VAL:CG1	1:H:358:PRO:CG	2.89	0.50
1:I:748:LEU:HB2	1:I:751:HIS:HB2	1.93	0.50
1:I:756:ILE:HD11	1:I:906:THR:CG2	2.41	0.50
1:J:63:ASN:HB3	1:L:23:ILE:HB	1.93	0.50
1:J:375:VAL:CG2	1:J:1065:PHE:CE1	2.94	0.50
1:J:440:LEU:O	1:J:451:ARG:HA	2.12	0.50
1:J:613:ALA:HB3	1:J:689:VAL:HG11	1.94	0.50
1:J:1333:PRO:HD2	1:J:1366:ALA:HB3	1.93	0.50
1:J:1340:PRO:HB2	1:J:1344:ARG:HH12	1.76	0.50
1:K:311:LEU:HD22	1:K:315:ASN:HB3	1.93	0.50
1:K:548:ASP:O	1:K:573:ALA:HA	2.11	0.50
1:K:953:GLU:OE1	1:K:953:GLU:N	2.44	0.50
1:K:1008:GLN:HE22	1:K:1011:ARG:HH11	1.60	0.50
1:L:606:MET:H	1:L:1018:ASN:HD21	1.59	0.50
1:L:618:PHE:HA	1:L:940:MET:HB3	1.92	0.50
1:N:844:VAL:CG1	4:r:68:HIS:CB	2.89	0.50
1:O:752:ARG:C	1:O:753:ASP:OD2	2.55	0.50
1:P:367:LEU:HD21	1:P:376:PHE:CD1	2.46	0.50
2:Q:181:TYR:HE2	2:Q:182:ASN:ND2	2.06	0.50
2:R:67:TYR:O	2:R:291:LEU:HD21	2.10	0.50
2:R:194:GLN:O	2:R:195:LEU:C	2.54	0.50
3:S:130:LEU:HD21	3:S:425:LEU:HD13	1.93	0.50
3:S:333:GLN:OE1	3:S:333:GLN:N	2.44	0.50
2:Z:90:LEU:HD13	2:a:300:PHE:HE1	1.76	0.50
4:p:26:VAL:O	4:p:30:ASN:HB2	2.11	0.50
4:r:26:VAL:O	4:r:30:ASN:HB2	2.11	0.50
4:s:53:PHE:C	4:s:55:ARG:N	2.70	0.50
1:G:116:VAL:HG12	1:B:42:VAL:HB	1.92	0.50
1:G:233:PHE:CZ	1:G:243:ALA:O	2.64	0.50
1:A:367:LEU:HD12	1:A:374:LEU:HD11	1.92	0.50
1:A:1300:VAL:HG11	1:A:1313:ARG:NE	2.27	0.50
1:B:467:MET:HE3	1:B:1032:SER:HA	1.91	0.50
1:B:1158:GLY:O	1:B:1172:PRO:CD	2.59	0.50
1:C:70:PHE:CZ	1:C:184:MET:HE3	2.47	0.50
1:C:1152:VAL:HG13	1:C:1159:PRO:HD2	1.93	0.50
1:D:847:ILE:HG21	4:j:70:ASN:C	2.37	0.50
1:D:907:ALA:HB1	1:D:994:LEU:HD21	1.94	0.50
1:E:78:ALA:HA	1:E:1068:ARG:O	2.12	0.50
1:E:219:LEU:O	1:E:223:LEU:N	2.44	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:544:HIS:HE1	1:E:1252:TYR:CD1	2.28	0.50
1:H:288:LEU:HD13	1:H:292:PHE:HB2	1.93	0.50
1:H:298:THR:O	1:H:367:LEU:HD12	2.11	0.50
1:H:419:HIS:O	1:H:420:ALA:C	2.54	0.50
1:H:439:GLN:HG2	1:H:451:ARG:NH2	2.25	0.50
1:H:656:TRP:CE2	1:H:686:CYS:HB3	2.46	0.50
1:H:752:ARG:HG3	1:H:927:ARG:CD	2.42	0.50
1:H:1095:GLN:HG2	1:H:1095:GLN:O	2.11	0.50
1:H:1198:TYR:HD2	1:H:1236:ARG:HD2	1.76	0.50
1:I:1106:TYR:O	1:I:1107:THR:CB	2.59	0.50
1:I:1188:ILE:HD11	1:I:1273:CYS:SG	2.52	0.50
1:J:74:GLY:C	1:J:277:VAL:HG12	2.37	0.50
1:J:274:VAL:HG21	1:J:376:PHE:CZ	2.47	0.50
1:J:578:VAL:CG1	1:J:725:LEU:HB2	2.36	0.50
1:K:579:ASN:HA	1:K:1031:MET:CE	2.41	0.50
1:K:595:ARG:NH2	1:K:1045:HIS:O	2.45	0.50
1:K:1115:VAL:HG11	1:K:1374:LEU:CD2	2.37	0.50
1:L:532:MET:CB	1:L:534:PRO:HD2	2.42	0.50
1:L:619:GLU:HG2	1:L:824:ARG:NH2	2.26	0.50
1:L:724:HIS:HE1	1:L:1025:MET:O	1.93	0.50
1:L:790:ARG:HD2	4:q:104:ARG:HA	1.94	0.50
1:L:1051:THR:HG22	1:L:1188:ILE:HB	1.93	0.50
1:M:199:LEU:HB2	1:M:200:PRO:HD3	1.94	0.50
1:O:294:LYS:C	1:O:296:GLU:N	2.65	0.50
2:Q:306:VAL:HG21	2:Q:312:ALA:HB1	1.94	0.50
3:S:352:ILE:O	3:S:353:THR:HG23	2.11	0.50
2:T:145:THR:OG1	2:T:146:PRO:HD3	2.11	0.50
2:T:295:VAL:HG11	2:T:314:VAL:HG11	1.79	0.50
2:T:306:VAL:HG21	2:T:312:ALA:HB1	1.93	0.50
3:V:271:GLN:HB2	3:V:457:TRP:NE1	2.27	0.50
2:W:272:TYR:CG	2:X:161:ARG:HB2	2.45	0.50
2:X:231:SER:O	2:X:238:ASN:OD1	2.28	0.50
2:a:12:ILE:HG22	2:a:16:ILE:HG21	1.90	0.50
3:b:134:LEU:O	3:b:134:LEU:HG	2.10	0.50
2:c:92:LEU:HD13	2:c:93:THR:O	2.11	0.50
2:d:124:GLN:O	2:d:125:ALA:HB3	2.12	0.50
2:d:298:CYS:HB2	2:d:315:ILE:HD13	1.92	0.50
4:f:53:PHE:C	4:f:55:ARG:N	2.70	0.50
4:f:90:PRO:CB	4:f:105:ASP:O	2.60	0.50
4:g:26:VAL:O	4:g:30:ASN:HB2	2.11	0.50
1:G:38:PHE:C	1:G:39:PHE:O	2.51	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:77:VAL:CG2	1:G:277:VAL:HG23	2.24	0.50
1:A:417:ALA:CB	1:A:1358:PHE:CE1	2.85	0.50
1:A:606:MET:H	1:A:1018:ASN:HD21	1.60	0.50
1:A:1287:ARG:NH1	1:A:1287:ARG:CG	2.72	0.50
1:B:246:ALA:HA	1:B:249:VAL:HG12	1.92	0.50
1:B:1224:ALA:C	1:B:1226:MET:N	2.68	0.50
1:B:1241:THR:HG22	1:B:1247:SER:OG	2.10	0.50
1:C:615:ARG:NH1	1:C:1017:GLU:OE2	2.45	0.50
1:D:543:LEU:HD23	1:D:1250:PHE:O	2.12	0.50
1:E:9:PRO:HG3	1:H:94:ARG:NE	2.25	0.50
1:F:1054:ARG:NH1	1:F:1122:MET:C	2.68	0.50
1:I:867:PRO:HG3	4:o:78:MET:O	2.11	0.50
1:I:1350:GLU:O	1:I:1350:GLU:HG2	2.11	0.50
1:J:183:GLN:HE21	1:J:187:VAL:HG13	1.77	0.50
1:J:456:ASN:OD1	1:J:1126:PRO:HG3	2.11	0.50
1:J:809:HIS:HB3	1:J:813:TYR:CE2	2.47	0.50
1:J:1085:THR:OG1	1:J:1088:GLY:O	2.29	0.50
1:J:1260:ALA:O	1:J:1262:HIS:NE2	2.45	0.50
1:J:1342:LEU:O	1:J:1345:SER:OG	2.18	0.50
1:L:903:GLU:HG2	1:L:904:ARG:N	2.26	0.50
1:M:326:VAL:HB	1:M:329:LEU:HD12	1.94	0.50
1:M:853:CYS:HB2	4:f:69:ALA:O	2.12	0.50
1:M:883:ARG:HH21	4:r:88:LEU:HD13	1.74	0.50
1:N:245:GLU:OE2	1:N:292:PHE:O	2.29	0.50
1:O:74:GLY:O	1:O:77:VAL:HG12	2.12	0.50
1:O:98:GLU:HA	1:O:118:ASN:O	2.10	0.50
1:O:305:THR:HG23	1:O:306:TYR:H	1.75	0.50
1:P:770:ASN:H	1:P:773:THR:HB	1.77	0.50
2:R:175:ASP:C	2:R:177:ASN:H	2.18	0.50
3:S:299:GLU:HB3	3:S:300:LEU:HD22	1.92	0.50
3:V:140:LEU:N	3:V:142:HIS:ND1	2.59	0.50
2:W:124:GLN:N	2:W:124:GLN:NE2	2.60	0.50
2:X:35:PRO:O	2:X:36:THR:HG23	2.12	0.50
3:Y:236:HIS:HA	3:Y:323:GLU:HG2	1.94	0.50
2:a:231:SER:O	2:a:238:ASN:OD1	2.29	0.50
2:c:60:THR:HG23	2:c:201:GLU:HB3	1.93	0.50
2:c:189:VAL:HG22	2:c:195:LEU:HD21	1.94	0.50
2:c:227:LEU:CD1	2:c:227:LEU:C	2.84	0.50
2:d:236:TYR:O	2:d:237:VAL:CB	2.57	0.50
3:e:148:ALA:O	3:e:149:PRO:C	2.52	0.50
4:r:53:PHE:C	4:r:55:ARG:N	2.69	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:992:PRO:C	1:G:995:GLY:H	2.20	0.50
1:A:453:SER:O	1:A:456:ASN:HB3	2.12	0.50
1:A:520:TRP:CD1	1:A:520:TRP:N	2.80	0.50
1:B:821:SER:HB3	1:B:825:CYS:SG	2.52	0.50
1:C:244:ILE:CG1	1:C:292:PHE:CE1	2.95	0.50
1:C:1085:THR:HG23	1:C:1086:GLY:O	2.12	0.50
1:E:417:ALA:O	1:E:1354:ARG:NH2	2.45	0.50
1:H:356:SER:O	1:H:357:ALA:HB3	2.11	0.50
1:H:739:CYS:HB2	1:H:785:HIS:ND1	2.27	0.50
1:I:785:HIS:HE2	1:I:800:HIS:CD2	2.30	0.50
1:I:1068:ARG:HG2	1:I:1068:ARG:NH1	2.27	0.50
1:J:45:ASP:CG	1:J:50:TYR:OH	2.54	0.50
1:J:252:THR:CG2	1:J:373:ARG:HD2	2.41	0.50
1:J:406:LEU:C	1:J:408:LEU:H	2.18	0.50
1:J:581:ASN:ND2	1:J:1003:ARG:H	2.09	0.50
1:J:1321:VAL:HG22	1:J:1322:GLU:H	1.76	0.50
1:K:706:ASP:O	1:K:1042:THR:HG21	2.11	0.50
1:L:417:ALA:HB2	1:L:1358:PHE:CE1	2.46	0.50
1:L:749:ASP:O	1:L:752:ARG:NH2	2.45	0.50
1:L:892:LEU:HD21	4:q:65:GLY:CA	2.40	0.50
1:L:1165:VAL:C	3:Y:140:LEU:HD22	2.36	0.50
1:M:338:ASP:OD1	1:M:339:MET:N	2.45	0.50
1:M:854:PRO:HG3	1:M:862:ALA:HB3	1.93	0.50
1:N:429:HIS:CB	1:N:430:PRO:CD	2.79	0.50
1:N:454:MET:HE2	1:N:1050:PHE:CE2	2.46	0.50
1:N:701:ALA:O	1:N:727:ARG:NH2	2.45	0.50
1:O:47:ASN:HD21	3:V:276:THR:CG2	2.24	0.50
1:O:842:MET:SD	4:s:61:LEU:HD22	2.51	0.50
1:P:198:LEU:HD22	1:P:254:ALA:HB1	1.92	0.50
1:P:638:GLU:OE1	1:P:789:ALA:HB2	2.12	0.50
2:T:227:LEU:CD1	2:T:227:LEU:C	2.84	0.50
2:X:194:GLN:O	2:X:195:LEU:C	2.54	0.50
3:Y:207:VAL:CG2	3:Y:447:VAL:CG1	2.88	0.50
2:Z:214:THR:O	2:Z:218:THR:HG23	2.12	0.50
2:a:34:LEU:CD1	2:a:37:ILE:HA	2.41	0.50
2:c:227:LEU:CD1	2:c:228:LEU:HD11	2.24	0.50
2:d:231:SER:O	2:d:238:ASN:OD1	2.29	0.50
4:f:26:VAL:O	4:f:30:ASN:HB2	2.11	0.50
4:h:53:PHE:C	4:h:55:ARG:N	2.69	0.50
4:q:53:PHE:C	4:q:55:ARG:N	2.70	0.50
1:G:136:ALA:C	1:G:138:GLU:N	2.64	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:144:THR:HG23	1:G:146:GLU:H	1.77	0.50
1:G:183:GLN:CB	1:G:1073:TYR:OH	2.60	0.50
1:G:263:ARG:HG3	1:G:264:LEU:N	2.27	0.50
1:G:426:ALA:CB	1:G:429:HIS:HE2	2.24	0.50
1:G:1213:VAL:HA	1:G:1287:ARG:CB	2.41	0.50
1:A:311:LEU:N	1:A:311:LEU:CD2	2.73	0.50
1:A:429:HIS:N	1:A:429:HIS:ND1	2.60	0.50
1:A:487:TYR:OH	1:A:989:LEU:HA	2.12	0.50
1:A:726:MET:HE3	1:A:815:VAL:HG23	1.93	0.50
1:A:1246:ALA:N	1:A:1251:SER:OG	2.45	0.50
1:B:493:ALA:HB1	1:B:755:ARG:NH2	2.22	0.50
1:B:541:LEU:HD22	1:B:571:ILE:HD11	1.93	0.50
1:B:621:ARG:NH1	1:B:621:ARG:CG	2.73	0.50
1:B:668:TYR:HB2	1:B:812:TYR:CD2	2.47	0.50
1:B:752:ARG:HG2	1:B:752:ARG:NH2	2.18	0.50
1:C:134:SER:HB2	1:C:1089:VAL:O	2.11	0.50
1:C:134:SER:HB3	1:C:1090:ASN:HA	1.92	0.50
1:C:629:LEU:HB3	1:C:839:LEU:HD21	1.93	0.50
1:D:302:VAL:N	1:D:303:PRO:HD3	2.27	0.50
1:D:1050:PHE:CD1	1:D:1187:PHE:HB3	2.47	0.50
1:E:533:GLN:N	1:E:534:PRO:HD3	2.26	0.50
1:F:730:ALA:CB	1:F:750:ARG:HH12	2.25	0.50
1:H:871:VAL:HG11	4:m:26:VAL:CG1	2.42	0.50
1:I:84:PHE:CE2	1:I:90:MET:SD	3.04	0.50
1:I:266:HIS:HB2	1:I:304:VAL:HG13	1.92	0.50
1:I:380:LEU:CD1	1:I:385:TYR:CD2	2.94	0.50
1:I:1206:ARG:NH1	1:I:1247:SER:HA	2.27	0.50
1:J:149:ASP:HB2	1:K:1077:GLN:CD	2.37	0.50
1:J:275:ASP:O	1:J:1068:ARG:HB2	2.11	0.50
1:J:726:MET:HG3	1:J:815:VAL:HG23	1.94	0.50
1:J:914:PRO:HD2	1:J:919:ASN:CB	2.42	0.50
1:K:815:VAL:HG22	1:K:1028:TYR:HE2	1.76	0.50
1:K:1340:PRO:HD2	1:P:413:MET:HG3	1.93	0.50
1:L:90:MET:CE	1:L:93:GLY:HA3	2.42	0.50
1:L:295:VAL:O	1:L:296:GLU:CB	2.55	0.50
1:M:356:SER:O	1:M:357:ALA:HB2	2.08	0.50
1:M:1054:ARG:HH12	1:M:1122:MET:HA	1.77	0.50
1:N:94:ARG:HG3	1:N:123:VAL:HG22	1.94	0.50
1:N:487:TYR:OH	1:N:989:LEU:HA	2.12	0.50
1:N:756:ILE:N	1:N:761:HIS:O	2.31	0.50
1:O:499:ALA:HA	1:O:956:TYR:CD2	2.47	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:272:ARG:HD3	1:P:374:LEU:HG	1.94	0.50
1:P:406:LEU:HD21	1:P:454:MET:HG2	1.93	0.50
1:P:755:ARG:C	1:P:756:ILE:O	2.50	0.50
1:P:815:VAL:HG12	1:P:1021:THR:HG23	1.92	0.50
1:P:938:LEU:HD11	1:P:964:PHE:CD1	2.47	0.50
3:S:112:ARG:HG2	3:S:112:ARG:NH2	2.24	0.50
3:S:236:HIS:HA	3:S:323:GLU:HG2	1.94	0.50
2:T:189:VAL:HG12	2:T:191:ASP:H	1.77	0.50
3:V:233:ALA:O	3:V:237:THR:HG23	2.12	0.50
3:Y:447:VAL:HG13	3:Y:448:PRO:HD2	1.94	0.50
2:Z:180:TYR:HA	2:Z:186:LEU:H	1.77	0.50
2:a:94:HIS:HE1	2:a:98:VAL:HB	1.74	0.50
3:b:130:LEU:CD2	3:b:187:PHE:CG	2.95	0.50
3:b:233:ALA:O	3:b:237:THR:HG23	2.12	0.50
3:b:242:HIS:CB	3:b:314:PHE:CD2	2.91	0.50
2:c:37:ILE:HD13	2:d:298:CYS:HG	1.73	0.50
2:c:145:THR:OG1	2:c:146:PRO:HD3	2.11	0.50
2:d:121:PHE:CE1	2:d:186:LEU:HB3	2.46	0.50
3:e:130:LEU:HD21	3:e:425:LEU:HD13	1.93	0.50
4:t:53:PHE:C	4:t:55:ARG:N	2.70	0.50
1:G:295:VAL:CG1	1:G:374:LEU:HD13	2.27	0.50
1:G:1015:ALA:HB1	1:G:1019:ALA:HB3	1.92	0.50
1:G:1026:ALA:HA	1:G:1029:PHE:CE2	2.47	0.50
1:G:1346:ALA:HA	1:G:1353:ALA:HB2	1.94	0.50
1:A:668:TYR:HB2	1:A:812:TYR:CD2	2.47	0.50
1:A:956:TYR:CD1	1:A:958:LEU:HB2	2.47	0.50
1:A:1222:VAL:O	1:A:1223:ILE:CG1	2.59	0.50
1:A:1259:GLY:HA3	1:A:1274:PHE:HE1	1.75	0.50
1:C:355:GLU:C	1:C:356:SER:HG	2.13	0.50
1:C:907:ALA:HB1	1:C:994:LEU:HD21	1.94	0.50
1:C:1348:ASP:OD1	1:C:1352:HIS:CE1	2.65	0.50
1:D:1201:ARG:HH11	1:E:448:GLN:NE2	2.02	0.50
1:E:17:MET:HE2	1:I:163:GLN:OE1	2.12	0.50
1:E:413:MET:HG2	1:F:1340:PRO:HD2	1.94	0.50
1:E:469:ILE:O	1:E:472:ALA:N	2.45	0.50
1:E:544:HIS:CD2	1:E:547:PHE:HD2	2.30	0.50
1:E:840:GLN:CD	4:k:58:ALA:CA	2.84	0.50
1:F:532:MET:HE2	1:F:534:PRO:CB	2.42	0.50
1:F:739:CYS:O	1:F:743:MET:HG2	2.12	0.50
1:F:769:CYS:SG	1:F:774:ALA:HB2	2.51	0.50
1:H:956:TYR:HD1	1:H:958:LEU:HG	1.68	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:1298:SER:HB2	1:H:1320:LEU:HD22	1.93	0.50
1:I:544:HIS:CD2	1:I:545:PRO:CD	2.94	0.50
1:I:1121:ASP:C	1:I:1122:MET:HG3	2.37	0.50
1:I:1137:PRO:HG3	2:X:238:ASN:CG	2.37	0.50
1:J:28:GLU:HA	1:K:101:GLN:NE2	2.26	0.50
1:J:264:LEU:HD23	1:J:266:HIS:NE2	2.27	0.50
1:J:911:SER:HB3	1:J:929:PHE:CD1	2.47	0.50
1:J:1029:PHE:CZ	1:J:1044:LEU:HD21	2.47	0.50
1:K:125:ASP:O	1:K:1098:GLY:HA2	2.12	0.50
1:K:142:LEU:HB2	1:K:161:ALA:CB	2.42	0.50
1:K:734:PRO:HG2	1:K:964:PHE:CE2	2.46	0.50
1:L:261:VAL:CG2	1:L:1068:ARG:HH12	2.16	0.50
1:L:304:VAL:CG2	1:L:305:THR:H	2.25	0.50
1:L:455:GLU:HA	1:L:1040:LEU:HB3	1.94	0.50
1:L:1057:ARG:NH2	1:L:1319:GLU:HG2	2.27	0.50
1:M:29:VAL:HG12	1:M:30:ALA:H	1.74	0.50
1:N:315:ASN:O	1:N:319:ALA:N	2.38	0.50
1:N:1296:THR:OG1	1:N:1327:LEU:HD12	2.12	0.50
1:O:94:ARG:HA	1:O:122:LYS:O	2.12	0.50
1:O:604:HIS:HD2	1:O:696:HIS:CD2	2.30	0.50
1:P:180:THR:HG22	1:P:1097:ARG:HH12	1.77	0.50
2:T:60:THR:HG23	2:T:201:GLU:HB3	1.93	0.50
3:Y:108:TYR:OH	3:Y:110:LEU:HD21	2.12	0.50
2:a:38:ARG:NH2	3:b:305:PRO:HG2	2.26	0.50
3:b:339:LEU:O	3:b:339:LEU:HG	2.11	0.50
2:c:121:PHE:O	2:c:122:GLU:C	2.54	0.50
3:e:189:PHE:HA	3:e:211:ILE:HD13	1.93	0.50
4:g:9:PRO:HB2	4:g:18:ARG:O	2.07	0.50
4:k:1:MET:H2	4:k:5:GLN:CB	2.24	0.50
4:l:1:MET:H3	4:l:5:GLN:CB	2.16	0.50
4:o:3:ALA:C	4:o:40:TYR:CB	2.74	0.50
4:s:1:MET:H2	4:s:5:GLN:CB	2.25	0.50
1:G:530:GLN:OE1	1:G:585:ALA:HB3	2.11	0.50
1:G:1171:VAL:HG13	1:G:1172:PRO:HD2	1.94	0.50
1:G:1240:ALA:O	1:G:1241:THR:HG22	2.12	0.50
1:A:87:LEU:HD11	1:A:1096:PRO:C	2.37	0.50
1:A:112:VAL:HG13	1:B:131:ALA:C	2.33	0.50
1:A:253:THR:O	1:A:253:THR:OG1	2.25	0.50
1:A:750:ARG:NH2	1:A:913:ALA:O	2.45	0.50
1:A:804:ASP:HB3	1:A:808:HIS:HE1	1.77	0.50
1:B:408:LEU:HD11	1:B:1199:PHE:HE2	1.77	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:847:ILE:HG21	4:h:71:ASN:HA	1.93	0.50
1:B:1073:TYR:HE1	1:B:1097:ARG:HD3	1.77	0.50
1:C:296:GLU:O	1:C:298:THR:N	2.42	0.50
1:C:604:HIS:O	1:C:1022:TYR:OH	2.21	0.50
1:C:1032:SER:O	1:C:1036:LEU:CB	2.60	0.50
1:D:101:GLN:NE2	1:I:28:GLU:HA	2.27	0.50
1:D:119:TYR:CE1	1:I:13:TYR:HE1	2.29	0.50
1:D:119:TYR:CD1	1:I:13:TYR:OH	2.61	0.50
1:D:836:TYR:HA	1:D:839:LEU:HB2	1.94	0.50
1:D:949:ILE:HG22	1:D:953:GLU:HG3	1.93	0.50
1:D:1241:THR:HG22	1:D:1247:SER:CB	2.42	0.50
1:E:32:HIS:O	1:E:35:LEU:N	2.42	0.50
1:E:147:ALA:O	1:E:148:LEU:HD22	2.12	0.50
1:E:1059:VAL:CG2	1:E:1119:VAL:HG21	2.35	0.50
1:F:11:TYR:HB2	1:F:38:PHE:CE2	2.47	0.50
1:F:431:GLU:HA	1:F:431:GLU:OE1	2.11	0.50
1:H:467:MET:HE1	1:H:575:TRP:NE1	2.16	0.50
1:H:729:PRO:HB2	1:H:745:HIS:HE1	1.77	0.50
1:I:129:LEU:O	1:I:1094:THR:HA	2.12	0.50
1:I:293:LEU:C	1:I:295:VAL:H	2.19	0.50
1:I:606:MET:HG3	1:I:696:HIS:CD2	2.47	0.50
1:I:840:GLN:HB2	4:n:61:LEU:CD1	2.42	0.50
1:I:1113:ALA:C	1:I:1114:THR:HG23	2.35	0.50
1:I:1118:PRO:HB3	1:I:1122:MET:CE	2.42	0.50
1:J:47:ASN:HD21	1:L:137:THR:CG2	2.25	0.50
1:J:410:ASN:ND2	1:J:1356:THR:OG1	2.45	0.50
1:J:452:LEU:HD13	1:J:1052:VAL:CG2	2.33	0.50
1:J:728:ASP:OD2	1:J:730:ALA:HB3	2.12	0.50
1:J:1056:ASP:OD1	1:J:1057:ARG:N	2.44	0.50
1:K:182:ASP:OD1	1:K:385:TYR:OH	2.20	0.50
1:K:589:VAL:HG12	1:K:593:ASP:OD2	2.11	0.50
1:K:847:ILE:HG21	4:p:71:ASN:N	2.27	0.50
1:L:264:LEU:C	1:L:266:HIS:H	2.20	0.50
1:L:293:LEU:O	1:L:295:VAL:N	2.44	0.50
1:L:591:PHE:CZ	1:L:1045:HIS:CD2	2.98	0.50
1:L:1354:ARG:NH2	1:L:1357:HIS:HD2	2.06	0.50
1:M:584:LEU:HD22	1:M:589:VAL:HG23	1.93	0.50
1:N:841:ASN:CB	4:r:57:GLN:NE2	2.75	0.50
1:O:1210:ALA:HB3	1:O:1329:GLN:HE21	1.76	0.50
1:P:531:PHE:CE1	1:P:1244:PRO:HD3	2.47	0.50
1:P:589:VAL:HG13	1:P:1009:HIS:CD2	2.43	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:633:ALA:HB2	1:P:839:LEU:CD1	2.42	0.50
1:P:837:ALA:CB	4:p:94:LEU:O	2.60	0.50
1:P:1158:GLY:O	1:P:1172:PRO:HD3	2.11	0.50
2:Q:98:VAL:O	2:Q:98:VAL:CG1	2.59	0.50
2:Q:189:VAL:HG22	2:Q:195:LEU:HD21	1.94	0.50
3:S:143:LEU:O	3:S:143:LEU:HD22	2.11	0.50
3:S:233:ALA:O	3:S:237:THR:HG23	2.12	0.50
2:U:175:ASP:C	2:U:177:ASN:H	2.18	0.50
2:U:236:TYR:O	2:U:237:VAL:CB	2.57	0.50
3:V:130:LEU:HD21	3:V:425:LEU:HD13	1.93	0.50
3:V:143:LEU:C	3:V:145:ARG:N	2.70	0.50
3:V:279:PRO:HA	3:V:285:ALA:O	2.10	0.50
2:W:82:ARG:NH2	2:W:84:VAL:HG22	2.27	0.50
3:Y:112:ARG:NH2	3:Y:112:ARG:CG	2.73	0.50
2:Z:121:PHE:O	2:Z:122:GLU:C	2.54	0.50
2:a:164:ASN:N	2:a:164:ASN:OD1	2.45	0.50
2:c:37:ILE:HG22	2:c:37:ILE:O	2.11	0.50
4:j:53:PHE:C	4:j:55:ARG:N	2.70	0.50
4:k:26:VAL:O	4:k:30:ASN:HB2	2.11	0.50
4:l:26:VAL:O	4:l:30:ASN:HB2	2.11	0.50
4:m:9:PRO:CG	4:m:18:ARG:O	2.55	0.50
4:o:107:LYS:CG	4:o:108:THR:N	2.74	0.50
1:G:235:GLY:CA	1:G:1114:THR:HG22	2.41	0.49
1:G:329:LEU:HD21	1:A:261:VAL:HG11	1.94	0.49
1:A:84:PHE:HD1	1:A:309:MET:SD	2.35	0.49
1:A:1117:ASN:ND2	1:F:204:TYR:OH	2.45	0.49
1:D:520:TRP:CD2	1:D:997:ASN:ND2	2.79	0.49
1:D:732:LEU:HD13	1:D:736:VAL:HG21	1.94	0.49
1:D:1026:ALA:HA	1:D:1029:PHE:HE2	1.77	0.49
1:E:184:MET:O	1:E:187:VAL:HG22	2.12	0.49
1:E:1058:PHE:CZ	1:E:1122:MET:HE3	2.45	0.49
1:E:1300:VAL:HG13	1:E:1318:ARG:HB3	1.94	0.49
1:F:527:THR:C	1:F:529:GLU:N	2.70	0.49
1:F:1123:GLY:O	1:F:1124:ASN:HB2	2.10	0.49
1:H:626:VAL:HG23	1:H:627:PHE:CD1	2.47	0.49
1:H:1208:ARG:NH1	1:H:1232:SER:O	2.44	0.49
1:I:81:CYS:CB	1:I:306:TYR:HE1	2.23	0.49
1:I:662:ALA:HB1	1:I:690:TYR:CZ	2.47	0.49
1:J:187:VAL:HG23	1:J:1071:GLU:OE1	2.12	0.49
1:J:437:PRO:HG3	1:J:1360:GLN:HA	1.94	0.49
1:J:527:THR:HG21	1:J:1193:ALA:CB	2.42	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:697:VAL:CG2	1:J:816:LEU:HD22	2.42	0.49
1:J:765:TYR:CE2	1:J:797:ASP:CB	2.95	0.49
1:J:1115:VAL:HG12	1:J:1374:LEU:HD21	1.89	0.49
1:K:155:LEU:C	1:K:155:LEU:CD1	2.85	0.49
1:K:476:VAL:HG13	1:K:571:ILE:HG21	1.94	0.49
1:K:544:HIS:HE1	1:K:1252:TYR:CD1	2.30	0.49
1:L:198:LEU:CD2	1:L:254:ALA:HB1	2.42	0.49
1:L:445:LYS:HD2	1:L:1118:PRO:HB2	1.91	0.49
1:L:1052:VAL:HA	1:L:1186:GLU:O	2.12	0.49
1:N:417:ALA:HB2	1:N:1358:PHE:CZ	2.44	0.49
1:O:13:TYR:O	1:O:14:ALA:HB3	2.11	0.49
1:O:293:LEU:HD22	1:O:370:ILE:HG12	1.93	0.49
1:O:714:LEU:HD13	1:O:719:GLN:HE22	1.75	0.49
1:O:790:ARG:NH1	4:s:103:VAL:O	2.45	0.49
1:O:840:GLN:O	4:s:57:GLN:HG2	2.12	0.49
1:O:1106:TYR:HE1	1:O:1294:VAL:HG11	1.77	0.49
1:P:950:GLN:HB3	1:P:953:GLU:HG3	1.93	0.49
1:P:1013:SER:OG	1:P:1020:LEU:HD22	2.12	0.49
1:P:1054:ARG:NH2	1:P:1056:ASP:OD2	2.43	0.49
2:Q:227:LEU:CD1	2:Q:227:LEU:C	2.84	0.49
3:S:198:TYR:OH	3:S:204:ALA:CB	2.60	0.49
2:W:121:PHE:O	2:W:122:GLU:C	2.54	0.49
2:W:306:VAL:HG21	2:W:312:ALA:HB1	1.94	0.49
3:Y:233:ALA:O	3:Y:237:THR:HG23	2.12	0.49
2:Z:63:LEU:O	2:Z:67:TYR:HD1	1.94	0.49
2:Z:92:LEU:HD13	2:Z:93:THR:O	2.11	0.49
2:Z:189:VAL:HG12	2:Z:191:ASP:H	1.77	0.49
3:b:296:LEU:HD22	3:b:450:VAL:CG2	2.17	0.49
2:d:134:ASP:O	2:d:135:LEU:CG	2.56	0.49
3:e:233:ALA:O	3:e:237:THR:HG23	2.12	0.49
4:l:18:ARG:O	4:l:19:ALA:CB	2.60	0.49
4:r:1:MET:H3	4:r:5:GLN:CB	2.18	0.49
1:G:78:ALA:C	1:G:1070:SER:H	2.19	0.49
1:G:835:VAL:HG22	1:G:954:TYR:CD1	2.46	0.49
1:A:679:GLY:HA2	1:A:687:MET:HE2	1.94	0.49
1:A:1085:THR:O	1:A:1086:GLY:C	2.53	0.49
1:B:981:ARG:HH22	1:C:802:PRO:HB2	1.78	0.49
1:C:532:MET:CB	1:C:534:PRO:HD2	2.42	0.49
1:C:775:ASP:O	1:C:903:GLU:HB2	2.12	0.49
1:C:976:PHE:CE2	1:C:981:ARG:HD2	2.47	0.49
1:C:1125:LEU:HD12	1:C:1126:PRO:CD	2.41	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:487:TYR:OH	1:D:989:LEU:HA	2.13	0.49
1:D:638:GLU:OE1	1:D:789:ALA:HB2	2.12	0.49
1:D:1029:PHE:HB3	1:D:1039:GLN:HE22	1.77	0.49
1:D:1278:THR:O	1:D:1282:ILE:HD13	2.11	0.49
1:E:458:VAL:HG22	1:E:1151:VAL:HG22	1.94	0.49
1:E:944:HIS:NE2	1:E:945:LEU:HD13	2.26	0.49
1:F:337:LEU:O	1:F:340:GLN:NE2	2.45	0.49
1:F:733:PRO:HG2	1:F:736:VAL:HG22	1.94	0.49
1:F:1220:GLY:O	1:F:1222:VAL:O	2.30	0.49
1:H:77:VAL:O	1:H:1068:ARG:HA	2.12	0.49
1:H:472:ALA:HA	1:H:1250:PHE:HB3	1.94	0.49
1:H:1079:GLN:HE21	1:H:1094:THR:HB	1.77	0.49
1:I:1008:GLN:HE22	1:I:1011:ARG:HH11	1.57	0.49
1:I:1073:TYR:OH	1:I:1097:ARG:HD3	2.11	0.49
1:I:1194:THR:HG22	1:I:1242:ALA:O	2.11	0.49
1:J:478:HIS:ND1	1:J:479:ASP:N	2.60	0.49
1:J:492:ALA:H	1:J:992:PRO:HB2	1.76	0.49
1:J:626:VAL:HG11	1:J:879:PHE:HA	1.93	0.49
1:J:1050:PHE:HB2	1:J:1187:PHE:CD1	2.47	0.49
1:J:1056:ASP:CA	1:J:1120:THR:HG21	2.42	0.49
1:K:74:GLY:O	1:K:277:VAL:HG21	2.11	0.49
1:L:814:TYR:O	1:L:818:PRO:HG2	2.12	0.49
1:L:1216:GLY:H	1:L:1221:ASP:HB2	1.77	0.49
1:M:11:TYR:OH	1:M:16:ALA:HB2	2.12	0.49
1:M:267:ALA:HB1	1:M:274:VAL:CB	2.41	0.49
1:M:668:TYR:HB2	1:M:812:TYR:CD2	2.46	0.49
1:M:897:LEU:O	1:M:901:MET:HE2	2.12	0.49
1:M:1115:VAL:HG12	1:M:1374:LEU:CD2	2.30	0.49
1:N:544:HIS:CD2	1:N:547:PHE:HD1	2.30	0.49
1:N:599:LEU:O	1:N:603:ARG:HD2	2.12	0.49
1:N:1301:SER:HB3	1:N:1321:VAL:CG2	2.42	0.49
1:O:303:PRO:HD2	1:O:361:THR:O	2.11	0.49
1:O:785:HIS:HE2	1:O:799:PRO:HA	1.77	0.49
1:O:840:GLN:CD	4:s:58:ALA:CA	2.84	0.49
1:O:895:GLN:OE1	4:s:62:THR:HA	2.12	0.49
1:P:403:VAL:CG2	1:P:1331:ALA:CB	2.90	0.49
1:P:826:CYS:SG	1:P:959:PRO:HG3	2.51	0.49
2:Q:61:LEU:HD11	2:Q:288:ILE:HD13	1.94	0.49
2:T:98:VAL:O	2:T:98:VAL:CG1	2.59	0.49
2:T:209:MET:HE3	2:T:213:ILE:HD11	1.94	0.49
3:V:309:PHE:O	3:V:331:LYS:HA	2.13	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:W:180:TYR:CE1	2:W:185:ARG:CB	2.94	0.49
2:a:94:HIS:ND1	2:a:98:VAL:HB	2.27	0.49
2:a:160:ILE:HD13	2:a:160:ILE:H	1.74	0.49
2:a:280:ALA:HB1	3:b:465:CYS:CB	2.35	0.49
2:c:61:LEU:HD11	2:c:288:ILE:HD13	1.94	0.49
4:j:26:VAL:O	4:j:30:ASN:HB2	2.11	0.49
4:n:26:VAL:O	4:n:30:ASN:HB2	2.11	0.49
1:G:280:THR:HG22	1:G:1063:VAL:HG13	1.94	0.49
1:G:822:ARG:CZ	1:G:1020:LEU:HD21	2.34	0.49
1:G:1299:ALA:HB1	1:G:1321:VAL:HB	1.86	0.49
1:A:139:ALA:HA	1:A:142:LEU:HB2	1.94	0.49
1:A:827:THR:HG21	1:A:960:VAL:HG22	1.92	0.49
1:A:907:ALA:HB1	1:A:994:LEU:HD21	1.95	0.49
1:A:1067:GLU:HG3	1:A:1107:THR:HG23	1.88	0.49
1:B:258:SER:OG	1:B:1102:LEU:O	2.30	0.49
1:C:48:SER:O	3:S:278:HIS:CE1	2.65	0.49
1:C:574:THR:HG21	1:C:998:TYR:O	2.12	0.49
1:C:842:MET:HE3	4:i:61:LEU:HD13	1.90	0.49
1:C:1120:THR:O	1:C:1120:THR:HG23	2.12	0.49
1:E:700:LEU:O	1:E:1025:MET:HE2	2.11	0.49
1:E:733:PRO:HG2	1:E:736:VAL:HG22	1.92	0.49
1:F:804:ASP:HB3	1:F:808:HIS:HE1	1.77	0.49
1:F:1291:ARG:O	1:F:1293:ILE:N	2.45	0.49
1:H:382:LYS:HA	1:H:386:ALA:HB2	1.93	0.49
1:I:71:LEU:HD13	1:I:305:THR:HA	1.94	0.49
1:J:70:PHE:O	1:J:76:SER:HA	2.12	0.49
1:J:71:LEU:N	1:J:76:SER:HB3	2.26	0.49
1:J:79:CYS:HB3	1:J:184:MET:SD	2.52	0.49
1:J:263:ARG:HE	1:J:307:GLY:CA	2.25	0.49
1:J:407:GLY:CA	1:J:454:MET:CE	2.70	0.49
1:K:784:LEU:HD12	1:K:903:GLU:OE1	2.07	0.49
1:K:948:THR:O	4:q:91:SER:O	2.29	0.49
1:L:827:THR:HG21	1:L:960:VAL:HG22	1.94	0.49
1:L:911:SER:HB3	1:L:929:PHE:CD2	2.48	0.49
1:M:679:GLY:HA2	1:M:687:MET:HE2	1.94	0.49
1:M:756:ILE:HD13	1:M:906:THR:CG2	2.41	0.49
1:N:107:ASP:O	1:N:110:HIS:ND1	2.46	0.49
1:N:531:PHE:CE2	1:N:1242:ALA:O	2.64	0.49
1:O:266:HIS:HA	1:O:302:VAL:O	2.11	0.49
1:O:840:GLN:OE1	4:s:58:ALA:CA	2.60	0.49
1:P:183:GLN:O	1:P:187:VAL:HG13	2.12	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R:17:SER:HB2	2:R:20:ASP:H	1.77	0.49
3:S:198:TYR:CE1	3:S:294:VAL:CG1	2.96	0.49
2:U:35:PRO:O	2:U:36:THR:HG23	2.12	0.49
2:U:41:LEU:HD12	2:U:42:ALA:N	2.23	0.49
2:W:209:MET:HE3	2:W:213:ILE:HD11	1.95	0.49
2:Z:60:THR:HG23	2:Z:201:GLU:HB3	1.93	0.49
3:b:139:ASP:CG	3:b:141:PRO:CB	2.85	0.49
3:b:186:SER:O	3:b:189:PHE:HB3	2.12	0.49
2:c:295:VAL:HG12	2:c:296:ARG:N	2.27	0.49
2:d:35:PRO:O	2:d:36:THR:HG23	2.12	0.49
4:i:26:VAL:O	4:i:30:ASN:HB2	2.11	0.49
4:k:53:PHE:C	4:k:55:ARG:N	2.69	0.49
4:l:10:SER:N	4:l:17:VAL:CB	2.75	0.49
4:n:53:PHE:C	4:n:55:ARG:N	2.70	0.49
1:G:311:LEU:CB	1:B:153:ILE:HD11	2.42	0.49
1:G:589:VAL:HG13	1:G:1009:HIS:CD2	2.47	0.49
1:A:198:LEU:HD22	1:A:1109:VAL:HG11	1.93	0.49
1:A:730:ALA:CB	1:A:750:ARG:HH12	2.18	0.49
1:A:956:TYR:CE1	1:A:958:LEU:CB	2.94	0.49
1:B:49:LEU:C	1:B:49:LEU:CD1	2.86	0.49
1:B:141:ALA:HB1	1:B:146:GLU:OE1	2.12	0.49
1:B:302:VAL:O	1:B:302:VAL:HG23	2.10	0.49
1:C:530:GLN:CG	1:C:536:ASN:HD21	2.13	0.49
1:C:1032:SER:OG	1:C:1035:ALA:CB	2.55	0.49
1:D:122:LYS:CD	1:I:36:PHE:CE1	2.93	0.49
1:D:1066:SER:HA	1:D:1108:ALA:HA	1.94	0.49
1:E:497:PRO:HD2	1:E:504:ARG:NH2	2.26	0.49
1:E:696:HIS:CE1	1:E:1021:THR:HG21	2.46	0.49
1:F:827:THR:HG21	1:F:960:VAL:HG22	1.95	0.49
1:H:264:LEU:CD2	1:H:264:LEU:C	2.85	0.49
1:H:731:LEU:HD23	1:H:810:LYS:HE3	1.95	0.49
1:H:946:ASP:HA	1:I:677:TYR:OH	2.12	0.49
1:H:1083:HIS:CG	1:H:1084:GLU:H	2.30	0.49
1:I:618:PHE:O	1:I:941:ALA:HB2	2.12	0.49
1:I:1174:ARG:NH2	1:I:1182:ASP:OD2	2.45	0.49
1:K:1195:ASP:OD1	1:K:1195:ASP:N	2.43	0.49
1:K:1304:THR:CG2	1:K:1314:PRO:HD2	2.42	0.49
1:L:278:LEU:O	1:L:1064:LEU:O	2.30	0.49
1:L:339:MET:HG2	1:M:159:LEU:HD23	1.94	0.49
1:L:1057:ARG:HH22	1:L:1319:GLU:CG	2.25	0.49
1:L:1329:GLN:C	1:L:1330:GLU:CG	2.86	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:200:PRO:O	1:M:204:TYR:CE1	2.66	0.49
1:M:267:ALA:CB	1:M:274:VAL:HB	2.42	0.49
1:M:1270:LEU:HD22	1:M:1303:ALA:HB2	1.94	0.49
1:N:305:THR:HG23	1:N:306:TYR:H	1.76	0.49
1:N:417:ALA:HB2	1:N:1358:PHE:HE1	1.71	0.49
1:N:451:ARG:HG2	1:N:452:LEU:N	2.26	0.49
1:N:1051:THR:HG22	1:N:1188:ILE:HB	1.95	0.49
1:N:1300:VAL:CG2	1:N:1318:ARG:CZ	2.90	0.49
1:P:841:ASN:ND2	1:P:874:THR:CA	2.43	0.49
1:P:871:VAL:HA	4:p:107:LYS:HE2	1.93	0.49
2:T:108:LEU:HD11	2:T:182:ASN:HD22	0.82	0.49
2:T:181:TYR:O	2:T:182:ASN:C	2.55	0.49
3:V:108:TYR:OH	3:V:110:LEU:HD21	2.12	0.49
3:V:134:LEU:HD12	3:V:244:VAL:HG12	1.94	0.49
2:W:98:VAL:O	2:W:98:VAL:CG1	2.59	0.49
2:W:272:TYR:CD2	2:X:161:ARG:CD	2.96	0.49
3:Y:88:ASP:HA	3:Y:91:LEU:CG	2.42	0.49
3:Y:447:VAL:HG12	3:Y:448:PRO:CD	2.42	0.49
2:Z:37:ILE:HD11	2:Z:71:PHE:CE2	2.47	0.49
2:Z:124:GLN:N	2:Z:124:GLN:NE2	2.60	0.49
2:Z:295:VAL:HG12	2:Z:296:ARG:N	2.27	0.49
2:a:175:ASP:C	2:a:177:ASN:H	2.19	0.49
3:b:189:PHE:C	3:b:189:PHE:HD2	2.20	0.49
3:b:440:GLU:CB	3:b:447:VAL:HG23	2.42	0.49
2:c:51:PHE:HE1	2:c:70:ARG:NH1	2.11	0.49
4:m:53:PHE:C	4:m:55:ARG:N	2.70	0.49
4:p:53:PHE:C	4:p:55:ARG:N	2.70	0.49
4:q:26:VAL:O	4:q:30:ASN:HB2	2.11	0.49
4:s:10:SER:O	4:s:17:VAL:CB	2.60	0.49
1:G:322:MET:CE	1:G:322:MET:N	2.72	0.49
1:G:530:GLN:CG	1:G:536:ASN:ND2	2.59	0.49
1:G:536:ASN:C	1:G:538:ASN:H	2.20	0.49
1:G:755:ARG:CG	1:G:909:LEU:O	2.56	0.49
1:G:827:THR:HG22	1:G:938:LEU:CD1	2.43	0.49
1:G:832:PHE:CD2	1:G:836:TYR:CZ	3.01	0.49
1:A:97:PHE:HB2	1:B:62:CYS:HG	1.78	0.49
1:B:497:PRO:HG2	1:B:500:ASP:OD1	2.13	0.49
1:B:816:LEU:O	1:B:819:ALA:N	2.45	0.49
1:C:264:LEU:HD23	1:C:266:HIS:CB	2.42	0.49
1:C:437:PRO:HB3	1:C:1338:SER:HB2	1.95	0.49
1:C:755:ARG:HA	1:C:761:HIS:O	2.13	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:960:VAL:HG23	1:D:961:HIS:H	1.78	0.49
1:E:35:LEU:HD23	1:H:122:LYS:HE3	1.94	0.49
1:E:264:LEU:C	1:E:266:HIS:N	2.68	0.49
1:E:827:THR:HG21	1:E:960:VAL:HG22	1.93	0.49
1:E:861:PRO:HA	1:E:866:HIS:CD2	2.47	0.49
1:E:867:PRO:CG	4:l:78:MET:O	2.61	0.49
1:E:1085:THR:HG22	1:E:1088:GLY:C	2.37	0.49
1:F:1081:ALA:HB3	1:F:1092:THR:HG22	1.94	0.49
1:F:1298:SER:HB2	1:F:1320:LEU:HD22	1.93	0.49
1:I:252:THR:CG2	1:I:373:ARG:CD	2.87	0.49
1:I:397:ALA:HB3	1:I:1321:VAL:HG23	1.93	0.49
1:I:840:GLN:CA	1:I:842:MET:HE2	2.42	0.49
1:I:880:HIS:CE1	4:o:79:PHE:O	2.66	0.49
1:I:917:GLY:O	1:I:1033:PRO:HD2	2.12	0.49
1:I:1095:GLN:HE21	1:I:1097:ARG:NH2	1.98	0.49
1:I:1201:ARG:HH22	1:J:1179:HIS:HE1	1.60	0.49
1:J:642:CYS:HA	1:J:645:ALA:HB2	1.94	0.49
1:J:1048:PHE:CD2	1:J:1050:PHE:HE1	2.30	0.49
1:K:135:LEU:CD2	1:K:143:LEU:HD12	2.42	0.49
1:K:597:LEU:O	1:K:601:VAL:HG13	2.12	0.49
1:L:419:HIS:NE2	1:M:421:GLY:O	2.45	0.49
1:L:767:ALA:C	1:L:786:ASN:HD22	2.18	0.49
1:L:933:LEU:HG	1:L:960:VAL:HG11	1.95	0.49
1:L:1083:HIS:CG	2:W:300:PHE:CE2	3.01	0.49
1:M:143:LEU:HD21	1:M:165:LEU:HD22	1.94	0.49
1:M:639:HIS:HD2	1:M:900:ASN:ND2	2.10	0.49
1:M:742:LEU:HD12	1:M:908:LEU:HD21	1.94	0.49
1:M:872:ALA:O	1:M:873:ASN:HB2	2.12	0.49
1:M:1350:GLU:O	1:M:1351:ALA:C	2.54	0.49
1:N:458:VAL:O	1:N:462:CYS:HB2	2.13	0.49
1:N:519:ARG:HH22	1:N:541:LEU:HB2	1.77	0.49
1:N:565:PRO:HG2	1:N:565:PRO:O	2.12	0.49
1:N:873:ASN:HD21	4:s:92:PHE:CB	2.25	0.49
1:O:78:ALA:C	1:O:1068:ARG:O	2.55	0.49
1:O:539:LEU:O	1:O:1248:GLN:NE2	2.31	0.49
1:O:679:GLY:HA2	1:O:687:MET:HE2	1.93	0.49
1:O:982:ASP:OD2	1:P:718:ALA:HB1	2.12	0.49
1:O:1085:THR:HG21	1:O:1090:ASN:ND2	2.14	0.49
1:O:1358:PHE:CE1	1:P:426:ALA:HA	2.46	0.49
1:P:358:PRO:O	1:P:360:THR:HG23	2.13	0.49
1:P:583:PRO:HG2	1:P:586:LEU:HB2	1.95	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:60:THR:HG23	2:Q:201:GLU:HB3	1.93	0.49
2:Q:295:VAL:HG12	2:Q:296:ARG:N	2.27	0.49
3:V:428:MET:C	3:V:430:ASP:H	2.20	0.49
3:Y:309:PHE:O	3:Y:331:LYS:HA	2.13	0.49
2:Z:209:MET:HE3	2:Z:213:ILE:HD11	1.95	0.49
2:Z:222:THR:HG1	2:Z:271:LEU:HD21	1.76	0.49
2:Z:227:LEU:HB3	2:Z:228:LEU:CD1	2.43	0.49
2:a:298:CYS:HB2	2:a:315:ILE:HD13	1.92	0.49
2:c:306:VAL:HG21	2:c:312:ALA:HB1	1.94	0.49
3:e:108:TYR:OH	3:e:110:LEU:HD21	2.12	0.49
3:e:313:VAL:HA	3:e:421:ALA:O	2.12	0.49
4:k:8:ARG:CB	4:k:18:ARG:H	2.25	0.49
1:G:296:GLU:O	1:G:367:LEU:HB2	2.13	0.49
1:G:628:TYR:CB	1:G:955:PHE:HE2	2.25	0.49
1:A:385:TYR:CD2	1:A:392:TYR:HD1	2.30	0.49
1:A:1052:VAL:HA	1:A:1186:GLU:O	2.12	0.49
1:A:1070:SER:HB3	1:A:1107:THR:HG21	1.94	0.49
1:B:1166:PHE:CD2	3:S:141:PRO:CG	2.96	0.49
1:B:1355:GLU:CD	1:C:1344:ARG:HE	2.21	0.49
1:C:244:ILE:HB	1:C:292:PHE:CE1	2.46	0.49
1:C:392:TYR:CE2	1:C:394:LEU:HB2	2.48	0.49
1:C:656:TRP:CE2	1:C:686:CYS:HB3	2.47	0.49
1:C:1048:PHE:HA	1:C:1192:VAL:HG13	1.95	0.49
1:D:127:ARG:HD2	1:D:183:GLN:HE21	1.77	0.49
1:D:836:TYR:O	1:D:840:GLN:HG2	2.13	0.49
1:D:842:MET:CE	4:j:61:LEU:HD13	2.42	0.49
1:E:156:HIS:CE1	1:E:160:ARG:HH11	2.30	0.49
1:E:523:GLU:HB3	1:E:1008:GLN:HG2	1.94	0.49
1:E:1211:GLY:N	1:E:1329:GLN:HG2	2.28	0.49
1:H:234:LEU:O	1:H:1114:THR:N	2.39	0.49
1:H:638:GLU:HB3	1:H:789:ALA:HB2	1.93	0.49
1:H:842:MET:O	4:m:22:MET:HB3	2.11	0.49
1:H:918:ALA:HB2	1:H:1032:SER:HB3	1.94	0.49
1:I:797:ASP:OD1	1:I:798:ARG:N	2.43	0.49
1:J:442:PHE:HB3	1:J:1336:CYS:CB	2.42	0.49
1:J:442:PHE:O	1:J:449:VAL:HA	2.12	0.49
1:J:541:LEU:HA	1:J:543:LEU:CD1	2.41	0.49
1:J:637:SER:CA	1:J:787:THR:O	2.51	0.49
1:K:207:ASN:OD1	1:K:208:GLY:N	2.41	0.49
1:K:581:ASN:O	1:K:1005:PRO:HG2	2.12	0.49
1:K:769:CYS:HB2	1:K:784:LEU:CD2	2.43	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:1197:ASN:C	1:K:1199:PHE:O	2.55	0.49
1:L:302:VAL:HG12	1:L:360:THR:HG21	1.94	0.49
1:M:198:LEU:HD21	1:M:202:GLN:OE1	2.12	0.49
1:M:425:PRO:HG3	1:M:431:GLU:HB2	1.93	0.49
1:M:1125:LEU:HD12	1:M:1126:PRO:CD	2.42	0.49
1:N:633:ALA:O	1:N:635:HIS:ND1	2.33	0.49
1:N:1084:GLU:O	1:N:1085:THR:OG1	2.27	0.49
1:N:1216:GLY:O	1:N:1217:ASP:CB	2.60	0.49
1:O:75:LEU:HA	1:O:277:VAL:HG11	1.93	0.49
1:O:79:CYS:O	1:O:264:LEU:HD21	2.12	0.49
1:O:531:PHE:CZ	1:O:1242:ALA:O	2.66	0.49
1:P:334:ARG:HA	1:P:337:LEU:HB2	1.95	0.49
2:Q:124:GLN:N	2:Q:124:GLN:NE2	2.60	0.49
3:S:211:ILE:HA	3:S:215:TYR:HD1	1.76	0.49
3:S:271:GLN:HB2	3:S:457:TRP:NE1	2.27	0.49
2:T:108:LEU:CD1	3:V:136:HIS:HE1	2.26	0.49
2:T:182:ASN:CG	3:V:136:HIS:HE1	2.14	0.49
2:T:295:VAL:HG12	2:T:296:ARG:N	2.27	0.49
2:U:228:LEU:HA	2:U:231:SER:HB2	1.95	0.49
3:V:112:ARG:HG2	3:V:112:ARG:NH2	2.24	0.49
2:W:61:LEU:HD11	2:W:288:ILE:HD13	1.94	0.49
3:Y:428:MET:C	3:Y:430:ASP:H	2.20	0.49
2:Z:178:VAL:HG12	2:Z:180:TYR:CE1	2.47	0.49
2:a:30:ARG:HB3	2:a:139:PHE:CD1	2.47	0.49
3:e:302:LEU:N	3:e:302:LEU:CD2	2.73	0.49
4:k:22:MET:HG3	4:k:61:LEU:HD23	1.95	0.49
4:m:26:VAL:O	4:m:30:ASN:HB2	2.11	0.49
4:n:22:MET:H	4:n:64:LEU:HD11	1.78	0.49
1:G:367:LEU:HD21	1:G:376:PHE:CE1	2.48	0.49
1:G:1209:ALA:HB1	1:G:1214:TYR:HE2	1.76	0.49
1:G:1249:ARG:HG2	1:G:1250:PHE:CD2	2.48	0.49
1:A:237:ALA:O	1:A:244:ILE:HD11	2.13	0.49
1:A:701:ALA:O	1:A:727:ARG:NH2	2.43	0.49
1:A:889:PRO:N	4:g:69:ALA:HB2	2.28	0.49
1:A:889:PRO:N	4:g:69:ALA:CB	2.75	0.49
1:B:277:VAL:HG12	1:B:279:VAL:HG23	1.94	0.49
1:B:1160:ALA:C	1:B:1161:GLN:O	2.55	0.49
1:C:268:ASP:C	1:C:269:THR:HG23	2.37	0.49
1:C:785:HIS:CD2	1:C:800:HIS:NE2	2.80	0.49
1:C:1211:GLY:O	1:C:1225:LEU:CD1	2.60	0.49
1:C:1229:HIS:C	1:C:1231:GLN:N	2.68	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:499:ALA:HB1	1:D:831:ARG:HH11	1.77	0.49
1:E:295:VAL:HG12	1:E:296:GLU:N	2.27	0.49
1:E:748:LEU:HB2	1:E:751:HIS:HB2	1.94	0.49
1:E:752:ARG:HG3	1:E:927:ARG:NE	2.27	0.49
1:E:873:ASN:ND2	4:l:92:PHE:CB	2.76	0.49
1:H:261:VAL:H	1:H:1068:ARG:HH22	1.60	0.49
1:H:673:TYR:OH	1:H:801:ARG:NH2	2.45	0.49
1:I:352:ASP:HA	1:L:20:THR:HA	1.94	0.49
1:I:410:ASN:HD21	1:I:1361:TYR:HB3	1.77	0.49
1:I:525:GLN:NE2	1:I:536:ASN:H	2.10	0.49
1:I:754:CYS:HA	1:I:910:CYS:HA	1.93	0.49
1:I:1048:PHE:HA	1:I:1192:VAL:HG13	1.94	0.49
1:I:1347:ARG:O	1:I:1347:ARG:HG3	2.12	0.49
1:I:1364:TYR:CG	1:I:1365:ASP:N	2.80	0.49
1:J:132:ALA:CB	1:J:1092:THR:HA	2.42	0.49
1:J:730:ALA:CB	1:J:750:ARG:CZ	2.91	0.49
1:J:1075:LEU:HA	1:J:1097:ARG:NH1	2.26	0.49
1:K:157:ARG:O	1:K:160:ARG:HG2	2.12	0.49
1:L:512:ARG:HH22	1:L:563:VAL:HG11	1.77	0.49
1:M:69:ARG:O	1:M:70:PHE:HB3	2.12	0.49
1:M:293:LEU:HD22	1:M:370:ILE:CG1	2.40	0.49
1:M:308:GLU:OE2	1:M:310:VAL:HG23	2.13	0.49
1:M:1079:GLN:HE21	1:M:1094:THR:HG23	1.78	0.49
1:M:1160:ALA:C	1:M:1161:GLN:CG	2.85	0.49
1:M:1188:ILE:HD11	1:M:1273:CYS:SG	2.52	0.49
1:N:957:VAL:HG12	1:N:959:PRO:HD3	1.94	0.49
1:N:1052:VAL:HA	1:N:1186:GLU:O	2.13	0.49
1:N:1131:LEU:HA	1:N:1169:ALA:HB1	1.95	0.49
1:N:1222:VAL:C	1:N:1223:ILE:HG13	2.38	0.49
1:N:1265:GLY:HA2	1:N:1312:LYS:NZ	2.28	0.49
1:O:1278:THR:O	1:O:1282:ILE:HD12	2.11	0.49
1:P:399:ASP:HB2	1:P:1323:ASP:HB2	1.95	0.49
3:S:309:PHE:O	3:S:331:LYS:HA	2.13	0.49
2:T:51:PHE:HE1	2:T:70:ARG:NH1	2.11	0.49
2:Z:223:LEU:HD21	2:Z:272:TYR:CD1	2.46	0.49
3:b:132:LEU:N	3:b:185:VAL:O	2.33	0.49
3:b:316:TYR:CD2	3:b:419:TYR:HA	2.48	0.49
2:c:37:ILE:HD11	2:c:71:PHE:CE2	2.47	0.49
4:f:22:MET:HG3	4:f:61:LEU:HD23	1.95	0.49
4:p:3:ALA:C	4:p:40:TYR:CB	2.74	0.49
4:s:14:ALA:O	4:s:29:THR:CG2	2.60	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:s:32:ALA:C	4:t:99:SER:CB	2.86	0.49
4:t:90:PRO:CB	4:t:103:VAL:CB	2.91	0.49
1:G:469:ILE:O	1:G:471:ALA:N	2.46	0.49
1:G:535:ASP:C	1:G:537:ALA:H	2.21	0.49
1:G:656:TRP:CE2	1:G:686:CYS:HB3	2.47	0.49
1:G:721:GLU:HA	1:G:727:ARG:HB2	1.95	0.49
1:G:822:ARG:NH2	1:G:1020:LEU:HD21	2.27	0.49
1:A:319:ALA:O	1:A:320:LEU:HD12	2.10	0.49
1:A:398:MET:HG3	1:A:1322:GLU:OE1	2.12	0.49
1:A:544:HIS:ND1	1:A:1252:TYR:CB	2.76	0.49
1:A:837:ALA:CB	4:g:54:LEU:HD21	2.42	0.49
1:A:976:PHE:HE2	1:A:981:ARG:HD2	1.78	0.49
1:B:141:ALA:CA	1:B:146:GLU:OE1	2.61	0.49
1:B:430:PRO:O	1:B:432:PRO:HD3	2.12	0.49
1:B:1156:ARG:NH1	1:B:1182:ASP:OD2	2.46	0.49
1:C:847:ILE:CG2	4:i:71:ASN:HA	2.43	0.49
1:D:50:TYR:CE2	1:M:139:ALA:HB2	2.46	0.49
1:D:884:VAL:HG12	1:D:886:VAL:HG23	1.95	0.49
1:E:737:TRP:CZ3	1:E:935:ALA:HB1	2.47	0.49
1:E:1055:GLN:HB3	1:E:1310:GLN:HE22	1.78	0.49
1:E:1058:PHE:CE1	1:E:1122:MET:HE1	2.46	0.49
1:F:726:MET:HE2	1:F:1028:TYR:CD2	2.48	0.49
1:H:752:ARG:HG3	1:H:927:ARG:HD2	1.95	0.49
1:H:1115:VAL:O	1:H:1115:VAL:HG23	2.07	0.49
1:I:41:ARG:HH22	1:I:43:ARG:NH1	2.10	0.49
1:I:84:PHE:CE1	1:I:309:MET:HE2	2.47	0.49
1:I:1095:GLN:OE1	3:Y:40:PRO:HD2	2.12	0.49
1:I:1120:THR:CG2	1:I:1183:ALA:HB2	2.39	0.49
1:J:373:ARG:NH2	1:J:1067:GLU:OE2	2.45	0.49
1:J:438:ARG:HB3	1:J:454:MET:HG3	1.94	0.49
1:J:766:ALA:N	1:J:796:ASP:OD1	2.45	0.49
1:J:778:ARG:HH22	1:J:782:ARG:HG3	1.77	0.49
1:K:446:ASP:C	1:K:448:GLN:N	2.71	0.49
1:K:604:HIS:CD2	1:K:696:HIS:HD2	2.30	0.49
1:K:933:LEU:HG	1:K:960:VAL:HG11	1.94	0.49
1:L:486:PRO:HG2	1:L:509:TRP:HH2	1.77	0.49
1:L:556:VAL:CG2	1:L:565:PRO:CG	2.88	0.49
1:L:586:LEU:HD23	1:L:1245:TRP:CZ2	2.48	0.49
1:L:1299:ALA:O	1:L:1320:LEU:HA	2.13	0.49
1:M:1008:GLN:HE21	1:M:1012:GLU:HB2	1.78	0.49
1:N:94:ARG:HB2	1:N:94:ARG:NH1	2.28	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:836:TYR:O	1:N:840:GLN:HG2	2.12	0.49
1:N:1049:GLY:O	1:N:1190:THR:N	2.40	0.49
1:N:1198:TYR:O	1:N:1199:PHE:CG	2.66	0.49
1:O:269:THR:O	1:O:270:ARG:HG2	2.13	0.49
2:Q:189:VAL:HG12	2:Q:191:ASP:H	1.77	0.49
3:S:161:TRP:CZ3	3:S:165:LEU:HD12	2.47	0.49
3:V:198:TYR:HE1	3:V:294:VAL:HG11	1.76	0.49
3:V:335:PRO:O	3:V:336:PRO:C	2.53	0.49
3:V:347:PHE:HD2	3:V:419:TYR:HE2	1.60	0.49
2:W:195:LEU:O	2:W:199:ASN:ND2	2.46	0.49
3:Y:434:ARG:NH1	3:Y:436:LEU:HG	2.25	0.49
2:Z:61:LEU:HD11	2:Z:288:ILE:HD13	1.94	0.49
2:a:291:LEU:CB	3:b:337:ARG:HD2	2.42	0.49
3:b:134:LEU:HD12	3:b:244:VAL:HG12	1.94	0.49
4:s:22:MET:HG3	4:s:61:LEU:HD23	1.95	0.49
4:t:46:THR:CB	4:t:50:VAL:HG12	2.43	0.49
1:G:293:LEU:O	1:G:294:LYS:HB2	2.13	0.49
1:A:295:VAL:HG22	1:A:367:LEU:C	2.37	0.49
1:A:499:ALA:HB1	1:A:831:ARG:HH11	1.77	0.49
1:A:1125:LEU:HD12	1:A:1126:PRO:CD	2.41	0.49
1:D:219:LEU:O	1:D:223:LEU:N	2.44	0.49
1:D:638:GLU:CD	1:D:789:ALA:HB2	2.38	0.49
1:D:914:PRO:HB2	1:D:919:ASN:HB2	1.94	0.49
1:E:258:SER:HB2	1:E:1103:GLY:CA	2.37	0.49
1:E:536:ASN:C	1:E:538:ASN:N	2.67	0.49
1:E:626:VAL:HG23	1:E:627:PHE:CD1	2.47	0.49
1:E:876:ASN:HA	1:E:879:PHE:HD2	1.77	0.49
1:E:1029:PHE:CB	1:E:1039:GLN:HE22	2.14	0.49
1:E:1296:THR:OG1	1:E:1327:LEU:HD12	2.12	0.49
1:F:369:ALA:HA	1:F:373:ARG:O	2.13	0.49
1:F:397:ALA:CB	1:F:1321:VAL:HG23	2.43	0.49
1:F:532:MET:HE2	1:F:534:PRO:HB2	1.95	0.49
1:F:726:MET:HE3	1:F:815:VAL:HG23	1.94	0.49
1:F:892:LEU:HD21	4:l:65:GLY:HA2	1.95	0.49
1:H:488:GLY:HA3	1:H:520:TRP:CH2	2.47	0.49
1:H:606:MET:H	1:H:1018:ASN:ND2	2.11	0.49
1:H:871:VAL:O	1:H:874:THR:HG22	2.13	0.49
1:I:203:ARG:HD3	1:J:1116:ARG:HH21	1.78	0.49
1:I:297:ASP:O	1:I:298:THR:OG1	2.23	0.49
1:I:811:ILE:O	1:I:815:VAL:HB	2.13	0.49
1:I:1201:ARG:HH22	1:J:1179:HIS:CE1	2.30	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:35:LEU:CD2	1:K:1104:VAL:O	2.60	0.49
1:J:397:ALA:CB	1:J:1321:VAL:HG23	2.43	0.49
1:J:1286:HIS:NE2	1:J:1291:ARG:HB2	2.28	0.49
1:K:841:ASN:OD1	4:p:26:VAL:HG22	2.13	0.49
1:L:768:ALA:HA	1:L:786:ASN:HD22	1.23	0.49
1:M:87:LEU:HD23	1:M:1076:GLY:HA2	1.94	0.49
1:M:403:VAL:C	1:M:404:LEU:HD12	2.37	0.49
1:M:841:ASN:CG	4:f:57:GLN:NE2	2.70	0.49
1:M:903:GLU:HG2	1:M:904:ARG:N	2.28	0.49
1:M:1095:GLN:HE21	1:M:1097:ARG:NH2	2.11	0.49
1:N:257:PRO:HA	1:N:1067:GLU:CD	2.38	0.49
1:N:265:THR:H	1:N:304:VAL:HG11	1.78	0.49
1:N:445:LYS:HD2	1:N:1118:PRO:HB2	1.95	0.49
1:N:756:ILE:HG22	1:N:761:HIS:O	2.12	0.49
1:N:920:THR:HG22	1:N:1138:LEU:HA	1.95	0.49
1:O:366:ASP:OD2	1:O:377:LEU:HB3	2.13	0.49
1:O:1050:PHE:CD1	1:O:1187:PHE:HB3	2.47	0.49
1:P:837:ALA:HB1	4:p:94:LEU:O	2.13	0.49
2:Q:37:ILE:HD11	2:Q:71:PHE:CE2	2.48	0.49
2:R:14:SER:O	2:R:133:LEU:CD1	2.61	0.49
3:S:165:LEU:HD23	3:S:165:LEU:O	2.12	0.49
3:S:447:VAL:CG1	3:S:448:PRO:HD2	2.39	0.49
2:U:194:GLN:O	2:U:195:LEU:C	2.54	0.49
2:W:295:VAL:HG12	2:W:296:ARG:N	2.27	0.49
2:X:260:MET:O	2:X:261:LEU:C	2.56	0.49
3:Y:200:ALA:O	3:Y:204:ALA:HB3	2.12	0.49
3:Y:278:HIS:N	3:Y:279:PRO:CD	2.73	0.49
3:Y:287:THR:HG22	3:Y:288:ILE:N	2.28	0.49
3:Y:311:TYR:HB2	3:Y:330:VAL:HG22	1.95	0.49
2:Z:306:VAL:HG21	2:Z:312:ALA:HB1	1.94	0.49
3:b:107:ARG:O	3:b:108:TYR:HB3	2.13	0.49
2:c:98:VAL:O	2:c:98:VAL:CG1	2.59	0.49
2:c:124:GLN:N	2:c:124:GLN:NE2	2.60	0.49
3:e:33:LEU:O	3:e:36:VAL:HG22	2.13	0.49
3:e:311:TYR:OH	3:e:334:LEU:O	2.30	0.49
4:l:46:THR:CB	4:l:50:VAL:HG12	2.43	0.49
4:r:22:MET:HE2	4:r:60:ALA:HB1	1.92	0.49
1:G:294:LYS:C	1:G:295:VAL:CG2	2.85	0.49
1:G:599:LEU:HD11	1:G:1026:ALA:HB2	1.94	0.49
1:G:909:LEU:HA	1:G:931:GLY:HA2	1.95	0.49
1:G:1004:GLN:NE2	1:G:1007:VAL:HB	2.27	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:514:ALA:HA	1:A:983:LEU:HD13	1.94	0.49
1:A:589:VAL:HG13	1:A:1009:HIS:HD2	1.78	0.49
1:B:231:SER:O	1:B:236:LYS:CE	2.58	0.49
1:B:1008:GLN:HE22	1:B:1011:ARG:HH11	1.60	0.49
1:C:264:LEU:C	1:C:266:HIS:N	2.71	0.49
1:C:379:ALA:O	1:C:392:TYR:OH	2.30	0.49
1:C:905:THR:HG22	1:C:956:TYR:OH	2.13	0.49
1:C:1206:ARG:NH1	1:C:1247:SER:O	2.38	0.49
1:D:93:GLY:HA3	1:D:124:ILE:CG1	2.42	0.49
1:D:101:GLN:HB2	1:D:116:VAL:HG23	1.94	0.49
1:D:562:GLU:HG3	1:D:563:VAL:H	1.78	0.49
1:E:90:MET:CE	1:E:93:GLY:HA3	2.43	0.49
1:E:582:LEU:HD12	1:E:582:LEU:H	1.78	0.49
1:E:897:LEU:O	1:E:901:MET:HE2	2.13	0.49
1:F:527:THR:OG1	1:F:585:ALA:O	2.30	0.49
1:F:639:HIS:HD2	1:F:900:ASN:HD21	1.59	0.49
1:H:392:TYR:CE2	1:H:394:LEU:HB2	2.48	0.49
1:H:580:GLY:HA2	1:H:592:ARG:NH1	2.24	0.49
1:H:627:PHE:CE1	1:H:651:CYS:HB3	2.48	0.49
1:I:534:PRO:HG2	1:I:535:ASP:N	2.28	0.49
1:I:582:LEU:HD12	1:I:582:LEU:H	1.78	0.49
1:J:466:LEU:HD23	1:J:1252:TYR:CE1	2.48	0.49
1:J:656:TRP:CE2	1:J:686:CYS:HB3	2.48	0.49
1:J:751:HIS:NE2	1:J:754:CYS:CB	2.41	0.49
1:J:840:GLN:NE2	4:o:58:ALA:N	2.60	0.49
1:J:1056:ASP:CB	1:J:1120:THR:HG21	2.43	0.49
1:J:1085:THR:OG1	1:J:1087:GLY:O	2.31	0.49
1:K:417:ALA:HB2	1:K:1358:PHE:CZ	2.45	0.49
1:K:463:HIS:C	1:K:465:SER:H	2.21	0.49
1:K:1355:GLU:CD	1:L:1344:ARG:HE	2.21	0.49
1:L:509:TRP:CZ2	1:L:564:PRO:HD3	2.48	0.49
1:L:838:THR:OG1	1:L:954:TYR:OH	2.30	0.49
1:M:908:LEU:HB3	1:M:932:ALA:O	2.13	0.49
1:N:227:PHE:CZ	1:N:1324:PRO:HB3	2.48	0.49
1:N:599:LEU:O	1:N:603:ARG:NH1	2.45	0.49
1:N:1369:LEU:HD13	1:N:1372:LEU:HD12	1.93	0.49
1:O:580:GLY:HA2	1:O:592:ARG:HH12	1.77	0.49
1:P:381:GLU:O	1:P:386:ALA:N	2.46	0.49
1:P:759:GLY:CA	1:P:780:ASP:O	2.58	0.49
3:S:311:TYR:HB2	3:S:330:VAL:HG22	1.95	0.49
2:T:92:LEU:HD13	2:T:93:THR:O	2.12	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:T:124:GLN:N	2:T:124:GLN:NE2	2.60	0.49
2:U:97:THR:O	2:U:97:THR:OG1	2.21	0.49
2:U:260:MET:O	2:U:261:LEU:C	2.56	0.49
2:X:38:ARG:HH21	3:Y:305:PRO:CD	2.25	0.49
3:Y:32:PRO:O	3:Y:36:VAL:CG2	2.61	0.49
2:Z:189:VAL:HG22	2:Z:195:LEU:HD21	1.94	0.49
2:Z:227:LEU:HB3	2:Z:228:LEU:HD12	1.93	0.49
2:c:182:ASN:HB2	3:e:138:THR:HG21	1.94	0.49
2:c:209:MET:HE3	2:c:213:ILE:HD11	1.94	0.49
2:d:228:LEU:HA	2:d:231:SER:HB2	1.95	0.49
3:e:275:HIS:HD2	3:e:280:GLY:HA2	1.78	0.49
4:k:22:MET:O	4:k:25:LEU:CB	2.57	0.49
4:l:3:ALA:C	4:l:40:TYR:CB	2.74	0.49
4:l:22:MET:HG3	4:l:61:LEU:HD23	1.95	0.49
4:o:22:MET:HG3	4:o:61:LEU:HD23	1.95	0.49
4:p:46:THR:CB	4:p:50:VAL:HG12	2.43	0.49
1:G:78:ALA:HB1	1:G:1070:SER:HB3	1.95	0.48
1:G:419:HIS:CD2	1:G:420:ALA:N	2.81	0.48
1:G:466:LEU:HD12	1:G:544:HIS:HE1	1.75	0.48
1:G:562:GLU:CG	1:G:563:VAL:H	2.21	0.48
1:G:835:VAL:HG22	1:G:954:TYR:HD1	1.78	0.48
1:G:1218:LYS:HG3	1:G:1221:ASP:OD1	2.12	0.48
1:A:242:GLU:HA	1:A:245:GLU:HB2	1.94	0.48
1:A:766:ALA:HB2	1:A:782:ARG:HD2	1.95	0.48
1:B:129:LEU:HD22	1:B:1097:ARG:CZ	2.42	0.48
1:B:756:ILE:HD13	1:B:908:LEU:HD13	1.93	0.48
1:B:1224:ALA:O	1:B:1225:LEU:C	2.55	0.48
1:C:373:ARG:HH21	1:C:1065:PHE:HZ	1.61	0.48
1:C:469:ILE:O	1:C:472:ALA:N	2.45	0.48
1:C:670:LEU:O	1:C:673:TYR:N	2.46	0.48
1:D:981:ARG:NH2	1:E:802:PRO:HB3	2.28	0.48
1:D:1080:VAL:HG22	1:D:1093:LEU:HD23	1.95	0.48
1:D:1113:ALA:C	1:D:1114:THR:CG2	2.86	0.48
1:E:527:THR:HA	1:E:585:ALA:HB1	1.94	0.48
1:E:840:GLN:OE1	4:k:58:ALA:HA	2.13	0.48
1:E:1054:ARG:NH1	1:E:1122:MET:O	2.36	0.48
1:F:189:LEU:HD12	1:F:1064:LEU:CD2	2.42	0.48
1:F:1118:PRO:O	1:F:1119:VAL:HB	2.12	0.48
1:H:105:ALA:N	1:I:175:ALA:HB1	2.28	0.48
1:H:1369:LEU:HD13	1:H:1372:LEU:HD12	1.94	0.48
1:J:71:LEU:N	1:J:76:SER:CB	2.73	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:194:PRO:HA	1:J:1110:ALA:O	2.13	0.48
1:J:398:MET:HB3	1:J:400:LEU:HD11	1.95	0.48
1:J:541:LEU:HA	1:J:543:LEU:HD11	1.95	0.48
1:J:804:ASP:HB3	1:J:808:HIS:CE1	2.48	0.48
1:J:810:LYS:O	1:J:814:TYR:N	2.35	0.48
1:K:378:GLU:OE1	1:K:380:LEU:HD23	2.13	0.48
1:K:822:ARG:NH2	1:K:1017:GLU:OE2	2.46	0.48
1:K:1191:PRO:HG2	1:K:1244:PRO:HD2	1.95	0.48
1:L:556:VAL:HG21	1:L:565:PRO:CD	2.42	0.48
1:L:1166:PHE:N	3:Y:140:LEU:HD22	2.28	0.48
1:M:261:VAL:H	1:M:1068:ARG:NH2	2.05	0.48
1:M:266:HIS:O	1:M:267:ALA:C	2.49	0.48
1:O:296:GLU:O	1:O:296:GLU:HG3	2.13	0.48
1:O:758:ALA:HB3	1:O:906:THR:CG2	2.42	0.48
1:P:786:ASN:C	1:P:787:THR:HG23	2.38	0.48
2:R:35:PRO:O	2:R:36:THR:HG23	2.12	0.48
2:R:129:ARG:NH1	2:R:136:THR:CG2	2.76	0.48
3:S:108:TYR:OH	3:S:110:LEU:HD21	2.12	0.48
2:T:61:LEU:HD11	2:T:288:ILE:HD13	1.94	0.48
2:T:121:PHE:O	2:T:122:GLU:C	2.54	0.48
3:V:39:PRO:CD	3:V:42:ALA:HA	2.43	0.48
2:a:157:ALA:O	2:a:160:ILE:N	2.46	0.48
3:e:122:PRO:HB2	3:e:254:TRP:CG	2.47	0.48
3:e:140:LEU:HA	3:e:141:PRO:HD2	1.40	0.48
3:e:211:ILE:HA	3:e:215:TYR:HD1	1.76	0.48
3:e:309:PHE:O	3:e:331:LYS:HA	2.13	0.48
3:e:311:TYR:HB2	3:e:330:VAL:HG22	1.95	0.48
3:e:316:TYR:HD2	3:e:419:TYR:CB	2.25	0.48
4:g:46:THR:CB	4:g:50:VAL:HG12	2.43	0.48
4:g:53:PHE:C	4:g:55:ARG:N	2.70	0.48
4:i:106:PRO:HG2	4:i:107:LYS:H	1.78	0.48
4:j:90:PRO:CB	4:j:105:ASP:O	2.61	0.48
4:s:22:MET:HE2	4:s:60:ALA:HB1	1.92	0.48
1:G:275:ASP:HA	1:G:1068:ARG:HG3	1.94	0.48
1:G:467:MET:CE	1:G:1033:PRO:CG	2.80	0.48
1:C:624:PRO:HB3	1:C:882:GLY:HA3	1.94	0.48
1:C:750:ARG:CA	1:C:752:ARG:NH2	2.76	0.48
1:F:581:ASN:ND2	1:F:1003:ARG:H	2.11	0.48
1:F:1085:THR:O	1:F:1086:GLY:C	2.52	0.48
1:H:327:ARG:HG2	1:I:57:LEU:O	2.12	0.48
1:H:527:THR:C	1:H:529:GLU:N	2.70	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:29:VAL:O	1:I:31:SER:N	2.46	0.48
1:I:232:PHE:CD1	1:I:1115:VAL:HG22	2.47	0.48
1:I:509:TRP:CH2	1:I:564:PRO:CD	2.96	0.48
1:I:529:GLU:CA	1:I:532:MET:CE	2.49	0.48
1:I:976:PHE:HE2	1:I:981:ARG:HD2	1.79	0.48
1:I:1277:PHE:O	1:I:1278:THR:OG1	2.30	0.48
1:J:599:LEU:O	1:J:603:ARG:HD2	2.13	0.48
1:J:669:SER:HA	1:J:805:TRP:CZ2	2.48	0.48
1:J:732:LEU:HB2	1:J:733:PRO:HD2	1.95	0.48
1:J:1206:ARG:HH22	1:J:1247:SER:HB2	1.78	0.48
1:J:1255:LEU:HA	1:J:1261:TYR:CD2	2.48	0.48
1:K:778:ARG:HH22	1:K:782:ARG:HB2	1.77	0.48
1:L:153:ILE:O	1:L:157:ARG:HG2	2.13	0.48
1:L:589:VAL:HG13	1:L:1009:HIS:CD2	2.48	0.48
1:L:656:TRP:O	1:L:660:ARG:HD3	2.12	0.48
1:L:861:PRO:HA	1:L:866:HIS:CD2	2.48	0.48
1:M:27:ILE:C	1:M:27:ILE:CD1	2.86	0.48
1:M:643:ALA:HB1	1:M:896:VAL:HG21	1.94	0.48
1:N:90:MET:HG2	1:N:91:ASN:N	2.27	0.48
1:N:381:GLU:O	1:N:386:ALA:N	2.46	0.48
1:N:419:HIS:CD2	1:O:421:GLY:O	2.66	0.48
1:N:785:HIS:HE1	1:N:795:ALA:H	1.61	0.48
1:N:1223:ILE:HG22	1:N:1223:ILE:O	2.14	0.48
1:O:579:ASN:OD1	1:O:1029:PHE:O	2.31	0.48
1:O:581:ASN:ND2	1:O:1003:ARG:HB2	2.28	0.48
1:O:769:CYS:SG	1:O:774:ALA:HB2	2.53	0.48
2:Q:51:PHE:HE1	2:Q:70:ARG:NH1	2.11	0.48
2:Q:306:VAL:HG21	2:Q:312:ALA:HB2	1.96	0.48
2:U:199:ASN:O	2:U:203:ARG:N	2.37	0.48
3:V:198:TYR:CZ	3:V:294:VAL:CG1	2.96	0.48
3:V:198:TYR:CZ	3:V:294:VAL:HG11	2.48	0.48
2:W:81:THR:O	2:W:82:ARG:HG3	2.13	0.48
3:Y:140:LEU:HG	3:Y:161:TRP:HD1	1.77	0.48
3:Y:254:TRP:N	3:Y:254:TRP:CD2	2.72	0.48
2:Z:179:LEU:HD22	2:Z:186:LEU:HD23	1.91	0.48
2:a:228:LEU:HA	2:a:231:SER:HB2	1.95	0.48
4:j:22:MET:HG3	4:j:61:LEU:HD23	1.95	0.48
4:m:8:ARG:HA	4:m:17:VAL:CB	2.43	0.48
4:m:21:GLY:C	4:m:23:ARG:N	2.68	0.48
4:o:46:THR:CB	4:o:50:VAL:HG12	2.43	0.48
4:o:90:PRO:N	4:o:105:ASP:O	2.46	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:q:46:THR:CB	4:q:50:VAL:HG12	2.43	0.48
4:r:3:ALA:C	4:r:40:TYR:CB	2.74	0.48
4:t:1:MET:H2	4:t:5:GLN:CB	2.24	0.48
1:G:519:ARG:CB	1:G:998:TYR:OH	2.61	0.48
1:A:274:VAL:HG11	1:A:376:PHE:CE2	2.48	0.48
1:A:656:TRP:CD2	1:A:686:CYS:HB3	2.48	0.48
1:A:1063:VAL:HG12	1:A:1064:LEU:N	2.29	0.48
1:B:74:GLY:HA3	1:B:376:PHE:CE2	2.48	0.48
1:B:443:TRP:CH2	1:B:1347:ARG:HB3	2.48	0.48
1:B:1224:ALA:C	1:B:1226:MET:H	2.21	0.48
1:C:264:LEU:HD21	1:C:266:HIS:HB3	1.95	0.48
1:D:77:VAL:HG23	1:D:266:HIS:CG	2.48	0.48
1:D:96:GLN:CB	1:D:121:THR:HG22	2.44	0.48
1:D:700:LEU:O	1:D:1025:MET:HE2	2.14	0.48
1:D:1119:VAL:HG12	1:D:1120:THR:N	2.28	0.48
1:E:270:ARG:NH1	1:E:297:ASP:OD1	2.46	0.48
1:E:466:LEU:HD12	1:E:544:HIS:NE2	2.29	0.48
1:E:867:PRO:HG2	4:l:78:MET:O	2.13	0.48
1:F:836:TYR:CE2	1:F:901:MET:HB2	2.47	0.48
1:H:195:LEU:HD22	1:H:251:LEU:HD23	1.94	0.48
1:H:244:ILE:HG22	1:H:248:LEU:HD23	1.95	0.48
1:H:303:PRO:O	1:H:360:THR:HA	2.12	0.48
1:I:534:PRO:HB3	1:J:1154:GLY:HA3	0.77	0.48
1:I:1121:ASP:O	1:I:1122:MET:HG3	2.12	0.48
1:J:185:LEU:CA	1:J:188:LEU:HB2	2.35	0.48
1:J:279:VAL:HG23	1:J:394:LEU:HD21	1.95	0.48
1:J:431:GLU:OE2	1:J:1358:PHE:CE2	2.66	0.48
1:J:778:ARG:O	1:J:904:ARG:CZ	2.61	0.48
1:J:1013:SER:CB	1:J:1020:LEU:HD23	2.43	0.48
1:J:1054:ARG:NH1	1:J:1123:GLY:N	2.61	0.48
1:K:469:ILE:O	1:K:472:ALA:N	2.45	0.48
1:K:741:GLY:O	1:K:745:HIS:CD2	2.67	0.48
1:K:1263:LEU:C	1:K:1263:LEU:CD1	2.86	0.48
1:L:227:PHE:CZ	1:L:398:MET:HE1	2.48	0.48
1:L:295:VAL:CG1	1:L:296:GLU:N	2.75	0.48
1:L:1208:ARG:NH1	1:L:1228:ASP:O	2.47	0.48
1:M:68:VAL:CG2	1:M:178:ARG:HG2	2.42	0.48
1:M:102:PRO:CD	1:N:387:ALA:HB3	2.43	0.48
1:M:266:HIS:ND1	1:M:266:HIS:C	2.72	0.48
1:M:472:ALA:HA	1:M:1250:PHE:HB3	1.95	0.48
1:M:976:PHE:CE2	1:M:981:ARG:HD2	2.48	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:67:LEU:HD22	1:N:69:ARG:HH21	1.78	0.48
1:N:232:PHE:CE1	1:N:1115:VAL:HG22	2.48	0.48
1:N:642:CYS:O	4:r:87:TRP:CB	2.61	0.48
1:O:187:VAL:HG21	1:O:1071:GLU:OE1	2.13	0.48
1:O:275:ASP:OD1	1:O:275:ASP:N	2.47	0.48
1:O:897:LEU:O	1:O:901:MET:HE2	2.14	0.48
1:O:1148:ARG:HG2	1:O:1148:ARG:NH2	2.29	0.48
1:O:1304:THR:CG2	1:O:1314:PRO:HD3	2.44	0.48
1:P:12:ARG:HG2	1:P:15:ALA:HB2	1.96	0.48
1:P:914:PRO:HD3	1:P:926:MET:O	2.12	0.48
2:R:228:LEU:HA	2:R:231:SER:HB2	1.95	0.48
2:T:37:ILE:HD11	2:T:71:PHE:CE2	2.47	0.48
2:U:44:ALA:HA	2:U:135:LEU:CD1	2.44	0.48
3:V:236:HIS:HA	3:V:323:GLU:HG2	1.94	0.48
2:Z:51:PHE:HE1	2:Z:70:ARG:NH1	2.11	0.48
2:Z:124:GLN:NE2	2:Z:124:GLN:HA	2.28	0.48
3:b:335:PRO:C	3:b:337:ARG:N	2.70	0.48
2:c:306:VAL:HG21	2:c:312:ALA:HB2	1.95	0.48
4:i:22:MET:HG3	4:i:61:LEU:HD23	1.95	0.48
4:l:53:PHE:C	4:l:55:ARG:N	2.70	0.48
4:p:22:MET:HG3	4:p:61:LEU:HD23	1.95	0.48
4:s:15:ASP:O	4:s:28:ALA:HB1	2.13	0.48
1:G:153:ILE:HG22	1:G:157:ARG:CB	2.40	0.48
1:G:279:VAL:HA	1:G:378:GLU:O	2.13	0.48
1:G:604:HIS:HB3	1:G:699:ALA:HB2	1.95	0.48
1:G:701:ALA:O	1:G:727:ARG:NH2	2.46	0.48
1:A:84:PHE:HD2	1:A:87:LEU:HD23	1.78	0.48
1:A:196:ALA:O	1:A:200:PRO:HD2	2.13	0.48
1:B:506:LEU:HD21	1:B:989:LEU:HD23	1.94	0.48
1:B:739:CYS:O	1:B:743:MET:HG2	2.13	0.48
1:B:829:GLY:HA3	1:B:905:THR:HG21	1.95	0.48
1:B:1248:GLN:HB2	1:B:1251:SER:HB3	1.94	0.48
1:B:1348:ASP:CB	1:B:1352:HIS:HE1	2.26	0.48
1:D:81:CYS:CB	1:D:306:TYR:CD1	2.96	0.48
1:D:127:ARG:O	1:D:1097:ARG:N	2.41	0.48
1:D:621:ARG:NH2	1:E:698:GLU:OE2	2.45	0.48
1:D:657:ASN:O	1:D:660:ARG:NH1	2.45	0.48
1:D:724:HIS:CD2	1:D:726:MET:H	2.31	0.48
1:D:829:GLY:O	1:D:955:PHE:HA	2.13	0.48
1:D:1248:GLN:HB2	1:D:1251:SER:OG	2.12	0.48
1:E:1152:VAL:HG13	1:E:1159:PRO:HD2	1.94	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:32:HIS:HB3	1:F:35:LEU:HD12	1.96	0.48
1:F:606:MET:HG3	1:F:696:HIS:CD2	2.48	0.48
1:F:778:ARG:NH2	1:F:780:ASP:OD1	2.47	0.48
1:F:845:PRO:HG3	1:F:869:ASN:OD1	2.13	0.48
1:F:918:ALA:CB	1:F:1032:SER:CB	2.82	0.48
1:H:668:TYR:HB2	1:H:812:TYR:CD2	2.48	0.48
1:H:735:LEU:HD22	1:H:936:GLY:HA3	1.94	0.48
1:H:960:VAL:HG23	1:H:961:HIS:H	1.78	0.48
1:I:643:ALA:HB1	1:I:896:VAL:HG21	1.95	0.48
1:I:857:PRO:HA	1:I:863:HIS:CG	2.48	0.48
1:J:105:ALA:O	1:J:106:ARG:HG2	2.13	0.48
1:K:78:ALA:CA	1:K:1068:ARG:O	2.61	0.48
1:K:950:GLN:HB3	1:K:953:GLU:CD	2.38	0.48
1:L:531:PHE:CE1	1:L:1244:PRO:HD3	2.49	0.48
1:L:1161:GLN:OE1	1:L:1170:GLN:OE1	2.30	0.48
1:M:29:VAL:CG1	1:M:30:ALA:H	2.25	0.48
1:N:305:THR:CG2	1:N:306:TYR:N	2.77	0.48
1:N:840:GLN:OE1	4:r:58:ALA:HB1	2.09	0.48
1:O:92:GLU:HG3	1:O:123:VAL:HG13	1.95	0.48
1:O:301:ASP:O	1:O:362:ARG:HA	2.13	0.48
1:O:591:PHE:CZ	1:O:1045:HIS:CD2	2.96	0.48
1:O:754:CYS:O	1:O:761:HIS:O	2.31	0.48
1:O:1107:THR:HG22	1:O:1108:ALA:H	1.78	0.48
1:P:245:GLU:OE2	1:P:292:PHE:HD1	1.96	0.48
1:P:270:ARG:NH2	1:P:298:THR:OG1	2.47	0.48
1:P:425:PRO:O	1:P:426:ALA:C	2.56	0.48
1:P:607:ALA:O	1:P:610:THR:HG22	2.13	0.48
1:P:626:VAL:CG1	1:P:878:MET:HG3	2.43	0.48
1:P:656:TRP:CE2	1:P:686:CYS:HB3	2.49	0.48
3:S:198:TYR:C	3:S:198:TYR:CD1	2.90	0.48
2:W:37:ILE:HD11	2:W:71:PHE:CE2	2.47	0.48
2:W:51:PHE:HE1	2:W:70:ARG:NH1	2.11	0.48
2:X:13:PRO:CB	2:X:133:LEU:HD13	2.42	0.48
3:Y:131:LEU:HD21	3:Y:251:LEU:HD12	1.95	0.48
3:Y:242:HIS:CE1	3:Y:421:ALA:CB	2.96	0.48
2:Z:160:ILE:HG23	2:a:223:LEU:CD2	2.44	0.48
2:a:12:ILE:HD12	2:a:82:ARG:N	2.28	0.48
2:c:189:VAL:HG12	2:c:191:ASP:H	1.77	0.48
2:d:44:ALA:HA	2:d:135:LEU:CD1	2.44	0.48
4:m:9:PRO:C	4:m:17:VAL:CB	2.87	0.48
4:s:3:ALA:C	4:s:40:TYR:CB	2.74	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:t:22:MET:HG3	4:t:61:LEU:HD23	1.95	0.48
1:G:440:LEU:O	1:G:451:ARG:HA	2.12	0.48
1:G:700:LEU:HD13	1:G:815:VAL:HG11	1.94	0.48
1:G:1258:ASN:OD1	1:G:1278:THR:HA	2.13	0.48
1:A:109:PRO:CD	3:S:255:VAL:CG1	2.65	0.48
1:A:335:HIS:CE1	1:A:339:MET:HE3	2.49	0.48
1:A:629:LEU:HB3	1:A:839:LEU:HD21	1.95	0.48
1:A:861:PRO:HA	1:A:866:HIS:CD2	2.49	0.48
1:A:1285:LYS:CD	1:A:1286:HIS:H	2.26	0.48
1:A:1364:TYR:CG	1:A:1365:ASP:N	2.82	0.48
1:B:77:VAL:N	1:B:266:HIS:HE1	2.11	0.48
1:B:404:LEU:HB3	1:B:440:LEU:HD21	1.94	0.48
1:B:805:TRP:O	1:B:809:HIS:ND1	2.41	0.48
1:C:200:PRO:HG2	1:C:223:LEU:HD23	1.96	0.48
1:C:267:ALA:HB1	1:C:274:VAL:HG23	1.94	0.48
1:D:1165:VAL:HG11	2:X:200:THR:HG21	1.92	0.48
1:E:769:CYS:SG	1:E:774:ALA:HB2	2.54	0.48
1:E:960:VAL:HG23	1:E:961:HIS:H	1.77	0.48
1:F:764:VAL:HG12	1:F:765:TYR:H	1.77	0.48
1:F:1157:LEU:HD21	1:F:1309:VAL:HG11	1.95	0.48
1:F:1265:GLY:HA2	1:F:1312:LYS:NZ	2.29	0.48
1:I:68:VAL:HG21	1:I:178:ARG:HD3	1.96	0.48
1:I:543:LEU:N	1:I:543:LEU:CD1	2.76	0.48
1:J:461:VAL:HG21	1:J:1048:PHE:HZ	1.78	0.48
1:J:1256:LEU:CG	1:J:1263:LEU:HD23	2.40	0.48
1:K:502:GLN:OE1	1:K:959:PRO:CD	2.61	0.48
1:K:1196:ILE:O	1:K:1197:ASN:CG	2.56	0.48
1:L:487:TYR:HE1	1:L:505:PHE:HZ	1.60	0.48
1:M:193:PRO:CG	1:M:198:LEU:HD12	2.42	0.48
1:N:308:GLU:HG3	1:N:309:MET:H	1.77	0.48
1:N:1024:LEU:HD23	1:N:1028:TYR:HE2	1.78	0.48
1:O:1349:GLY:C	1:O:1351:ALA:H	2.19	0.48
1:P:166:ALA:O	1:P:170:GLN:HG2	2.13	0.48
1:P:338:ASP:O	1:P:341:GLU:HB2	2.14	0.48
1:P:741:GLY:O	1:P:745:HIS:CD2	2.66	0.48
1:P:790:ARG:NH1	4:t:103:VAL:O	2.46	0.48
1:P:1029:PHE:HB3	1:P:1039:GLN:NE2	2.29	0.48
1:P:1373:SER:OG	1:P:1374:LEU:N	2.46	0.48
3:S:198:TYR:OH	3:S:294:VAL:CG1	2.59	0.48
3:V:287:THR:HG22	3:V:288:ILE:N	2.28	0.48
3:b:131:LEU:HD21	3:b:251:LEU:HD12	1.95	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:b:268:SER:CB	3:b:457:TRP:HB2	2.40	0.48
3:b:316:TYR:HD2	3:b:419:TYR:HA	1.77	0.48
4:g:8:ARG:HA	4:g:17:VAL:CB	2.44	0.48
1:G:739:CYS:SG	1:G:765:TYR:CG	2.94	0.48
1:A:56:ALA:HB3	1:F:90:MET:HE3	1.96	0.48
1:A:714:LEU:HD13	1:A:719:GLN:HE22	1.79	0.48
1:A:842:MET:CG	4:g:61:LEU:HD21	2.39	0.48
1:A:976:PHE:CE2	1:A:981:ARG:HD2	2.48	0.48
1:A:1250:PHE:HE1	1:A:1261:TYR:OH	1.96	0.48
1:B:365:ALA:HB1	1:B:376:PHE:HE1	1.77	0.48
1:B:1181:GLN:NE2	1:B:1310:GLN:HA	2.25	0.48
1:D:120:MET:SD	1:I:36:PHE:CD1	3.07	0.48
1:D:986:HIS:CE1	1:E:705:ASP:HB3	2.48	0.48
1:E:308:GLU:OE2	1:E:310:VAL:HG13	2.14	0.48
1:E:905:THR:OG1	1:E:935:ALA:O	2.28	0.48
1:E:1008:GLN:HE22	1:E:1011:ARG:HH11	1.61	0.48
1:F:398:MET:HG3	1:F:1322:GLU:OE1	2.14	0.48
1:F:1354:ARG:NH2	1:F:1357:HIS:HD2	2.10	0.48
1:H:264:LEU:HD23	1:H:266:HIS:HB3	1.90	0.48
1:H:275:ASP:OD1	1:H:275:ASP:N	2.47	0.48
1:I:101:GLN:NE2	1:L:28:GLU:HA	2.28	0.48
1:I:180:THR:HG21	3:Y:41:ILE:HD11	1.95	0.48
1:I:554:ALA:HB3	1:I:568:PRO:O	2.13	0.48
1:I:662:ALA:HB2	1:I:689:VAL:HG11	1.94	0.48
1:I:1121:ASP:C	1:I:1122:MET:CG	2.86	0.48
1:I:1289:LEU:O	1:I:1290:GLU:C	2.53	0.48
1:J:124:ILE:HG22	1:J:1100:VAL:HG23	1.95	0.48
1:J:641:PHE:HE2	1:J:677:TYR:HB2	1.78	0.48
1:J:652:ILE:HD13	1:J:674:ILE:HG12	1.93	0.48
1:J:778:ARG:O	1:J:904:ARG:CD	2.62	0.48
1:J:944:HIS:HE1	1:J:951:ASN:HD22	1.50	0.48
1:J:1149:ASN:O	1:J:1153:ALA:HB2	2.13	0.48
1:K:55:ASP:HB2	1:P:92:GLU:O	2.14	0.48
1:K:488:GLY:HA3	1:K:520:TRP:CZ3	2.48	0.48
1:K:829:GLY:HA3	1:K:905:THR:HG21	1.96	0.48
1:K:1263:LEU:HD13	1:K:1263:LEU:O	2.14	0.48
1:K:1369:LEU:HD13	1:K:1372:LEU:HD12	1.96	0.48
1:L:43:ARG:O	1:L:44:SER:HB3	2.14	0.48
1:L:445:LYS:CD	1:L:1118:PRO:CB	2.90	0.48
1:L:1029:PHE:HB3	1:L:1039:GLN:NE2	2.29	0.48
1:M:176:PHE:O	1:M:180:THR:HG23	2.12	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:895:GLN:HB2	4:f:62:THR:HG22	1.94	0.48
1:N:539:LEU:C	1:N:541:LEU:H	2.21	0.48
1:N:638:GLU:HB3	1:N:789:ALA:HB2	1.96	0.48
1:N:696:HIS:CE1	1:N:1021:THR:HG21	2.48	0.48
1:N:730:ALA:C	1:N:745:HIS:HE1	2.14	0.48
1:N:754:CYS:HA	1:N:910:CYS:SG	2.53	0.48
1:O:436:PRO:HG2	1:O:595:ARG:HB3	1.95	0.48
1:O:905:THR:HG22	1:O:956:TYR:OH	2.14	0.48
1:O:968:ASP:O	1:O:972:ASN:ND2	2.47	0.48
1:O:1223:ILE:HA	1:O:1226:MET:HG2	1.94	0.48
1:O:1225:LEU:CD1	1:O:1234:PRO:CG	2.71	0.48
1:P:756:ILE:CD1	1:P:906:THR:CG2	2.75	0.48
1:P:1181:GLN:HE21	1:P:1310:GLN:HA	1.79	0.48
2:Q:182:ASN:CA	3:S:139:ASP:HB2	2.44	0.48
2:Q:209:MET:HE3	2:Q:213:ILE:HD11	1.94	0.48
2:T:189:VAL:HG22	2:T:195:LEU:HD21	1.94	0.48
3:V:347:PHE:CD2	3:V:419:TYR:CE2	3.00	0.48
2:X:228:LEU:HA	2:X:231:SER:HB2	1.95	0.48
3:Y:302:LEU:H	3:Y:302:LEU:CD1	2.10	0.48
2:Z:313:PRO:C	2:Z:314:VAL:HG23	2.38	0.48
3:b:191:VAL:CG2	3:b:291:CYS:SG	2.99	0.48
3:b:435:CYS:SG	3:b:451:ILE:HD11	2.54	0.48
3:e:447:VAL:CG1	3:e:448:PRO:HD2	2.39	0.48
4:g:90:PRO:CB	4:g:105:ASP:O	2.61	0.48
4:i:46:THR:CG2	4:i:50:VAL:HG11	2.18	0.48
4:j:20:LEU:HD23	4:j:20:LEU:C	2.38	0.48
4:k:44:HIS:CG	4:k:47:GLN:O	2.67	0.48
4:q:1:MET:H2	4:q:5:GLN:HB3	1.79	0.48
4:r:22:MET:HG3	4:r:61:LEU:HD23	1.95	0.48
4:t:44:HIS:CG	4:t:47:GLN:O	2.67	0.48
1:G:95:VAL:O	1:G:95:VAL:HG12	2.13	0.48
1:G:275:ASP:HA	1:G:1068:ARG:CG	2.44	0.48
1:G:311:LEU:HD11	1:G:314:ALA:CB	2.43	0.48
1:G:399:ASP:HA	1:G:1057:ARG:HA	1.96	0.48
1:G:463:HIS:C	1:G:465:SER:H	2.22	0.48
1:G:505:PHE:CE1	1:G:509:TRP:CG	2.88	0.48
1:G:786:ASN:HB2	1:G:788:GLN:OE1	2.13	0.48
1:G:821:SER:CB	1:G:825:CYS:SG	3.01	0.48
1:G:1204:ASN:ND2	1:G:1329:GLN:HE21	2.11	0.48
1:G:1215:ALA:HB2	1:G:1222:VAL:HG23	1.96	0.48
1:B:714:LEU:HD13	1:B:719:GLN:HE22	1.76	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:193:PRO:HG2	1:C:198:LEU:HD12	1.95	0.48
1:C:322:MET:HE1	1:L:329:LEU:HD22	1.96	0.48
1:C:407:GLY:HA2	1:C:437:PRO:O	2.13	0.48
1:C:435:PHE:O	1:C:1359:THR:OG1	2.22	0.48
1:C:1229:HIS:O	1:C:1231:GLN:O	2.32	0.48
1:D:233:PHE:CE2	1:D:244:ILE:HD13	2.49	0.48
1:D:275:ASP:HA	1:D:1068:ARG:HG2	1.96	0.48
1:E:9:PRO:HG3	1:H:94:ARG:NH2	2.29	0.48
1:F:124:ILE:HD13	1:F:1100:VAL:HG23	1.96	0.48
1:F:365:ALA:CB	1:F:376:PHE:HE1	2.27	0.48
1:F:501:MET:HE3	1:F:958:LEU:HD11	1.94	0.48
1:F:767:ALA:O	1:F:786:ASN:HA	2.13	0.48
1:F:871:VAL:CG1	4:g:107:LYS:HZ1	2.25	0.48
1:H:148:LEU:HA	1:H:154:SER:OG	2.13	0.48
1:H:532:MET:CB	1:H:534:PRO:HD2	2.43	0.48
1:H:836:TYR:CD1	1:H:897:LEU:HD13	2.49	0.48
1:I:220:VAL:HG21	1:I:1213:VAL:HG11	1.94	0.48
1:I:915:ASP:O	1:I:919:ASN:HB2	2.14	0.48
1:J:71:LEU:CA	1:J:76:SER:HB3	2.12	0.48
1:J:280:THR:HG22	1:J:1063:VAL:CG1	2.44	0.48
1:J:539:LEU:HD11	1:J:1244:PRO:HB3	1.96	0.48
1:J:1085:THR:HG23	1:J:1090:ASN:HB2	1.96	0.48
1:N:319:ALA:O	1:N:323:GLY:HA2	2.13	0.48
1:O:301:ASP:OD2	1:O:376:PHE:CE1	2.67	0.48
1:P:27:ILE:HG22	1:P:28:GLU:N	2.27	0.48
1:P:247:TRP:CE3	1:P:248:LEU:HD12	2.48	0.48
3:S:143:LEU:CD1	3:S:143:LEU:C	2.85	0.48
2:U:108:LEU:O	2:U:112:ASP:CG	2.45	0.48
2:Z:195:LEU:O	2:Z:199:ASN:ND2	2.46	0.48
2:a:32:VAL:CB	2:a:34:LEU:CD2	2.85	0.48
3:b:322:GLN:N	3:b:322:GLN:NE2	2.60	0.48
2:d:14:SER:O	2:d:16:ILE:CD1	2.62	0.48
3:e:236:HIS:HA	3:e:323:GLU:HG2	1.94	0.48
4:j:103:VAL:O	4:j:104:ARG:C	2.57	0.48
1:G:126:ARG:NH1	2:Q:82:ARG:CZ	2.76	0.48
1:G:210:LEU:HD22	1:G:212:THR:CB	2.38	0.48
1:G:491:VAL:HA	1:G:992:PRO:HB2	1.95	0.48
1:G:505:PHE:CD1	1:G:509:TRP:NE1	2.66	0.48
1:B:433:ARG:HH12	1:B:1341:ALA:HB3	1.79	0.48
1:B:440:LEU:HD12	1:B:1337:ALA:O	2.14	0.48
1:B:847:ILE:HG21	4:h:71:ASN:N	2.28	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1291:ARG:O	1:B:1293:ILE:N	2.47	0.48
1:B:1369:LEU:HD13	1:B:1372:LEU:HD12	1.96	0.48
1:C:86:GLU:CD	1:C:311:LEU:HD23	2.38	0.48
1:C:403:VAL:HG21	1:C:1331:ALA:CB	2.42	0.48
1:C:462:CYS:SG	1:C:1037:TYR:HB2	2.54	0.48
1:D:456:ASN:OD1	1:D:1126:PRO:HG3	2.13	0.48
1:D:626:VAL:HG12	1:D:878:MET:HG3	1.95	0.48
1:D:953:GLU:CG	1:D:954:TYR:N	2.76	0.48
1:E:180:THR:O	1:E:184:MET:HG2	2.13	0.48
1:E:1059:VAL:HG23	1:E:1119:VAL:HG23	1.93	0.48
1:E:1121:ASP:O	1:E:1122:MET:HB2	2.14	0.48
1:E:1133:ARG:O	1:E:1133:ARG:HG3	2.13	0.48
1:F:234:LEU:HB2	1:F:1113:ALA:HB1	1.94	0.48
1:F:958:LEU:HD21	1:F:994:LEU:HD11	1.96	0.48
1:F:1181:GLN:NE2	1:F:1304:THR:O	2.39	0.48
1:H:259:VAL:HG11	1:I:61:TYR:CE1	2.49	0.48
1:H:269:THR:CG2	1:H:298:THR:CG2	2.63	0.48
1:H:487:TYR:HA	1:H:509:TRP:HZ3	1.79	0.48
1:H:766:ALA:HB3	1:H:784:LEU:HA	1.96	0.48
1:I:1165:VAL:CG1	2:X:240:LEU:HD12	2.40	0.48
1:J:433:ARG:C	1:J:1358:PHE:HD2	2.22	0.48
1:J:523:GLU:HA	1:J:523:GLU:OE1	2.13	0.48
1:J:1063:VAL:CG2	1:J:1111:ALA:HB3	2.43	0.48
1:J:1255:LEU:HA	1:J:1261:TYR:CE2	2.49	0.48
1:K:643:ALA:HB1	1:K:896:VAL:HG21	1.95	0.48
1:K:1325:CYS:O	1:K:1329:GLN:HA	2.13	0.48
1:L:621:ARG:HH22	1:M:698:GLU:CD	2.21	0.48
1:L:1373:SER:OG	1:L:1374:LEU:N	2.42	0.48
1:M:103:LEU:O	1:N:178:ARG:HD2	2.13	0.48
1:M:338:ASP:OD1	1:M:348:ARG:NH2	2.46	0.48
1:M:462:CYS:HB3	1:M:1037:TYR:HH	1.78	0.48
1:N:604:HIS:O	1:N:1022:TYR:OH	2.23	0.48
1:N:1051:THR:CG2	1:N:1188:ILE:HB	2.43	0.48
1:N:1278:THR:O	1:N:1279:ALA:HB3	2.13	0.48
1:O:187:VAL:HG23	1:O:1071:GLU:OE1	2.14	0.48
1:P:247:TRP:HE3	1:P:248:LEU:HD12	1.78	0.48
1:P:535:ASP:C	1:P:537:ALA:H	2.22	0.48
2:W:272:TYR:HD2	2:X:161:ARG:CD	2.26	0.48
2:Z:161:ARG:CZ	2:Z:176:LEU:HG	2.44	0.48
3:b:276:THR:O	3:b:279:PRO:C	2.55	0.48
2:c:161:ARG:CZ	2:c:176:LEU:HG	2.44	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:e:165:LEU:C	3:e:167:ALA:N	2.72	0.48
4:f:44:HIS:CG	4:f:47:GLN:O	2.67	0.48
4:i:53:PHE:C	4:i:55:ARG:N	2.70	0.48
4:m:44:HIS:CG	4:m:47:GLN:O	2.67	0.48
4:n:44:HIS:CG	4:n:47:GLN:O	2.67	0.48
4:s:19:ALA:O	4:s:20:LEU:HG	2.13	0.48
4:s:92:PHE:HA	4:s:102:VAL:CB	2.43	0.48
1:G:903:GLU:HG2	1:G:904:ARG:H	1.78	0.48
1:A:78:ALA:CB	1:A:277:VAL:HG21	2.26	0.48
1:A:394:LEU:O	1:A:395:VAL:HB	2.13	0.48
1:A:429:HIS:HB3	1:A:430:PRO:CD	2.44	0.48
1:A:536:ASN:O	1:A:537:ALA:C	2.53	0.48
1:A:765:TYR:CE1	1:A:783:LEU:HB2	2.48	0.48
1:A:1297:GLY:C	1:A:1298:SER:OG	2.55	0.48
1:B:558:LEU:HD21	1:B:999:PHE:CE1	2.49	0.48
1:B:903:GLU:HG2	1:B:904:ARG:N	2.28	0.48
1:B:1315:PRO:O	3:S:260:LEU:CD2	2.62	0.48
1:C:45:ASP:CG	1:C:46:GLU:N	2.72	0.48
1:C:445:LYS:HE3	1:C:1118:PRO:HD2	1.95	0.48
1:C:884:VAL:HG12	1:C:886:VAL:HG23	1.95	0.48
1:D:1181:GLN:NE2	1:D:1310:GLN:HA	2.28	0.48
1:E:595:ARG:NH1	1:E:1045:HIS:O	2.47	0.48
1:E:784:LEU:HD11	1:E:902:ALA:HA	1.95	0.48
1:E:905:THR:CG2	1:E:956:TYR:OH	2.61	0.48
1:E:1157:LEU:HD21	1:E:1309:VAL:HG11	1.96	0.48
1:F:272:ARG:O	1:F:273:PRO:C	2.51	0.48
1:F:548:ASP:OD1	1:F:576:ARG:NE	2.29	0.48
1:H:106:ARG:HD3	1:H:110:HIS:ND1	2.29	0.48
1:H:620:ASP:O	1:H:941:ALA:HB3	2.14	0.48
1:H:841:ASN:CA	4:m:57:GLN:NE2	2.75	0.48
1:I:284:ILE:HD13	1:I:1113:ALA:HB3	1.93	0.48
1:I:419:HIS:HD2	1:I:420:ALA:H	1.59	0.48
1:I:420:ALA:HB2	1:J:421:GLY:HA3	1.95	0.48
1:J:394:LEU:CD2	1:J:1064:LEU:N	2.76	0.48
1:J:730:ALA:HB2	1:J:750:ARG:NH1	2.28	0.48
1:J:765:TYR:HB3	1:J:796:ASP:OD1	2.14	0.48
1:J:1049:GLY:C	1:J:1050:PHE:HD1	2.22	0.48
1:J:1291:ARG:O	1:J:1294:VAL:HG22	2.13	0.48
1:K:359:GLN:NE2	1:K:359:GLN:HA	2.29	0.48
1:L:226:SER:O	1:L:230:THR:OG1	2.27	0.48
1:L:1051:THR:CG2	1:L:1188:ILE:HB	2.43	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:11:TYR:CD2	1:M:13:TYR:CD1	3.02	0.48
1:M:318:THR:O	1:M:322:MET:HB2	2.13	0.48
1:M:889:PRO:N	4:f:69:ALA:CB	2.76	0.48
1:N:321:VAL:C	1:O:12:ARG:HD2	2.39	0.48
1:N:403:VAL:HG21	1:N:1331:ALA:HB3	1.96	0.48
1:O:27:ILE:HG12	1:O:28:GLU:N	2.29	0.48
1:O:81:CYS:HB2	1:O:306:TYR:HD1	1.79	0.48
1:O:269:THR:O	1:O:270:ARG:CG	2.61	0.48
1:O:1125:LEU:C	1:O:1125:LEU:CD1	2.85	0.48
1:O:1256:LEU:HA	1:O:1263:LEU:CD2	2.42	0.48
1:P:403:VAL:HG23	1:P:1331:ALA:CB	2.39	0.48
1:P:463:HIS:CG	1:P:464:PRO:HD2	2.48	0.48
1:P:564:PRO:O	1:P:566:ALA:N	2.47	0.48
3:S:131:LEU:HD21	3:S:251:LEU:HD12	1.95	0.48
2:U:111:GLY:O	2:U:296:ARG:CG	2.62	0.48
2:W:189:VAL:HG22	2:W:195:LEU:HD21	1.94	0.48
2:W:306:VAL:HG21	2:W:312:ALA:HB2	1.95	0.48
2:X:236:TYR:O	2:X:237:VAL:CB	2.57	0.48
3:Y:292:ALA:C	3:Y:294:VAL:H	2.04	0.48
2:a:194:GLN:O	2:a:195:LEU:C	2.54	0.48
2:d:21:ALA:O	2:d:25:GLN:HG2	2.14	0.48
4:h:44:HIS:CG	4:h:47:GLN:O	2.67	0.48
4:l:1:MET:H2	4:l:5:GLN:HB3	1.78	0.48
4:n:20:LEU:HD12	4:n:20:LEU:C	2.39	0.48
4:r:44:HIS:CG	4:r:47:GLN:O	2.67	0.48
4:t:21:GLY:O	4:t:22:MET:C	2.56	0.48
1:G:832:PHE:CD2	1:G:902:ALA:O	2.66	0.48
1:G:1067:GLU:CG	1:G:1107:THR:HG23	2.44	0.48
1:G:1198:TYR:O	1:G:1199:PHE:CG	2.67	0.48
1:A:78:ALA:HB2	1:A:277:VAL:CG2	2.24	0.48
1:A:419:HIS:CD2	1:B:421:GLY:O	2.67	0.48
1:B:276:GLY:CA	1:B:375:VAL:HG13	2.40	0.48
1:B:284:ILE:HD11	1:B:1061:GLU:HB3	1.96	0.48
1:B:398:MET:HA	1:B:1321:VAL:HG22	1.96	0.48
1:B:696:HIS:HE1	1:B:1021:THR:HG21	1.79	0.48
1:B:728:ASP:O	1:B:810:LYS:NZ	2.46	0.48
1:B:842:MET:CE	4:h:61:LEU:CD1	2.91	0.48
1:B:968:ASP:O	1:B:972:ASN:ND2	2.47	0.48
1:B:1058:PHE:HZ	1:B:1122:MET:HE3	1.79	0.48
1:C:127:ARG:HD2	1:C:183:GLN:NE2	2.29	0.48
1:C:873:ASN:HD21	4:j:92:PHE:CB	2.26	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:193:PRO:HG3	1:D:1294:VAL:HG12	1.95	0.48
1:D:494:PRO:HD2	1:D:755:ARG:CD	2.44	0.48
1:E:106:ARG:HH21	1:F:390:VAL:HG13	1.78	0.48
1:E:218:THR:HG21	1:F:1119:VAL:HA	1.96	0.48
1:E:1107:THR:HG22	1:E:1108:ALA:N	2.28	0.48
1:E:1364:TYR:CG	1:E:1365:ASP:N	2.82	0.48
1:F:241:ARG:NH1	1:F:241:ARG:CG	2.73	0.48
1:F:520:TRP:CD1	1:F:520:TRP:N	2.82	0.48
1:F:1195:ASP:OD1	1:F:1195:ASP:N	2.37	0.48
1:H:1026:ALA:HA	1:H:1029:PHE:CE2	2.48	0.48
1:H:1197:ASN:N	1:H:1197:ASN:ND2	2.60	0.48
1:I:541:LEU:HD23	1:I:541:LEU:HA	1.45	0.48
1:I:945:LEU:O	1:I:947:HIS:CE1	2.66	0.48
1:J:118:ASN:C	1:J:120:MET:HE2	2.39	0.48
1:J:759:GLY:CA	1:J:780:ASP:CA	2.91	0.48
1:J:1006:VAL:HG11	1:J:1028:TYR:CE1	2.49	0.48
1:J:1321:VAL:HG13	1:J:1323:ASP:H	1.78	0.48
1:K:382:LYS:O	1:K:386:ALA:HB2	2.14	0.48
1:K:587:CYS:SG	1:K:591:PHE:HD2	2.37	0.48
1:K:879:PHE:O	1:K:882:GLY:O	2.32	0.48
1:K:1321:VAL:HG13	1:K:1322:GLU:N	2.28	0.48
1:M:233:PHE:CE2	1:M:244:ILE:HD13	2.49	0.48
1:M:1201:ARG:NH1	1:N:448:GLN:CD	2.53	0.48
1:M:1333:PRO:HD2	1:M:1366:ALA:O	2.13	0.48
1:N:214:VAL:HG21	1:O:1307:SER:O	2.14	0.48
1:N:280:THR:OG1	1:N:281:THR:N	2.43	0.48
1:N:548:ASP:O	1:N:573:ALA:HA	2.13	0.48
1:N:626:VAL:CG1	1:N:878:MET:HG3	2.44	0.48
1:O:548:ASP:OD1	1:O:576:ARG:NE	2.34	0.48
1:O:574:THR:HG21	1:O:998:TYR:O	2.14	0.48
1:O:1017:GLU:N	1:O:1017:GLU:OE1	2.47	0.48
1:O:1068:ARG:CG	1:O:1069:ALA:N	2.59	0.48
1:P:367:LEU:HD21	1:P:376:PHE:CE1	2.49	0.48
1:P:534:PRO:C	1:P:536:ASN:N	2.72	0.48
2:R:44:ALA:HA	2:R:135:LEU:CD1	2.44	0.48
2:T:60:THR:HG22	2:T:119:PRO:HG2	1.96	0.48
3:V:152:ARG:HH11	3:V:152:ARG:HG2	1.79	0.48
3:Y:127:ALA:CB	3:Y:286:VAL:HA	2.44	0.48
2:Z:100:LEU:CD1	2:Z:314:VAL:HG21	2.44	0.48
2:Z:119:PRO:HG3	2:Z:138:ARG:HH22	1.79	0.48
2:a:35:PRO:CA	2:a:70:ARG:CZ	2.91	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:b:201:ARG:C	3:b:203:ALA:H	2.22	0.48
2:c:60:THR:HG22	2:c:119:PRO:HG2	1.96	0.48
2:d:92:LEU:O	2:d:316:ARG:NH2	2.47	0.48
2:d:111:GLY:O	2:d:296:ARG:CG	2.62	0.48
3:e:299:GLU:O	3:e:300:LEU:C	2.56	0.48
3:e:435:CYS:O	3:e:450:VAL:HA	2.14	0.48
4:g:46:THR:CG2	4:g:50:VAL:HG11	2.18	0.48
4:o:53:PHE:C	4:o:55:ARG:N	2.70	0.48
4:q:107:LYS:CG	4:q:108:THR:N	2.72	0.48
1:G:403:VAL:HA	1:G:1052:VAL:O	2.14	0.47
1:G:801:ARG:HA	1:G:802:PRO:HD2	1.74	0.47
1:A:247:TRP:HE3	1:A:248:LEU:HD12	1.77	0.47
1:A:586:LEU:HD23	1:A:1245:TRP:CZ2	2.49	0.47
1:A:774:ALA:HB1	1:A:776:PHE:CE1	2.49	0.47
1:A:1301:SER:OG	1:A:1319:GLU:HB2	2.14	0.47
1:B:65:LEU:C	1:B:65:LEU:CD1	2.85	0.47
1:B:402:PHE:HE2	1:B:1056:ASP:HB2	1.79	0.47
1:B:956:TYR:HD1	1:B:958:LEU:HG	1.62	0.47
1:B:1225:LEU:CD2	1:C:1176:GLY:HA3	2.43	0.47
1:B:1232:SER:HB2	1:B:1237:PRO:O	2.14	0.47
1:C:642:CYS:HA	1:C:645:ALA:HB2	1.95	0.47
1:D:234:LEU:O	1:D:234:LEU:HD12	2.14	0.47
1:D:241:ARG:O	1:D:245:GLU:HG2	2.13	0.47
1:D:698:GLU:HG2	1:D:808:HIS:NE2	2.29	0.47
1:E:437:PRO:HB3	1:E:1338:SER:HB2	1.96	0.47
1:F:269:THR:HG23	1:F:367:LEU:HD11	1.84	0.47
1:F:945:LEU:O	1:F:946:ASP:CB	2.59	0.47
1:H:208:GLY:CA	1:I:389:ASN:HA	2.44	0.47
1:H:948:THR:OG1	1:H:949:ILE:N	2.39	0.47
1:I:493:ALA:HB2	1:I:560:GLY:HA2	1.95	0.47
1:I:591:PHE:CZ	1:I:1045:HIS:CD2	3.01	0.47
1:I:626:VAL:CG1	1:I:878:MET:HG3	2.44	0.47
1:I:734:PRO:O	1:I:735:LEU:HD23	2.13	0.47
1:I:1051:THR:CG2	1:I:1188:ILE:HB	2.44	0.47
1:I:1166:PHE:CZ	2:W:284:GLN:CG	2.96	0.47
1:I:1200:ARG:NH1	1:I:1355:GLU:CG	2.77	0.47
1:I:1323:ASP:HA	1:I:1324:PRO:HD2	1.62	0.47
1:J:544:HIS:HB2	1:J:549:PHE:HE2	1.79	0.47
1:J:628:TYR:HB3	1:J:955:PHE:CE2	2.49	0.47
1:J:722:LEU:CD2	1:J:915:ASP:OD1	2.62	0.47
1:K:1008:GLN:HE22	1:K:1011:ARG:NH1	2.11	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:1157:LEU:HD21	1:K:1309:VAL:HG11	1.94	0.47
1:L:437:PRO:HB3	1:L:1338:SER:HB2	1.95	0.47
1:M:86:GLU:O	1:M:87:LEU:C	2.54	0.47
1:M:462:CYS:O	1:M:1037:TYR:OH	2.23	0.47
1:M:544:HIS:CD2	1:M:547:PHE:CD2	3.02	0.47
1:M:589:VAL:HG13	1:M:1009:HIS:CD2	2.49	0.47
1:M:759:GLY:HA3	1:M:781:GLY:N	2.28	0.47
1:M:841:ASN:OD1	4:f:26:VAL:CG2	2.56	0.47
1:M:1340:PRO:O	1:M:1344:ARG:HG3	2.14	0.47
1:N:438:ARG:HB3	1:N:454:MET:HG3	1.95	0.47
1:N:445:LYS:HG3	1:N:1122:MET:HB2	1.96	0.47
1:N:626:VAL:HG13	1:N:878:MET:HG3	1.96	0.47
1:N:1078:LEU:HD12	3:V:86:ALA:CB	2.41	0.47
1:N:1364:TYR:CG	1:N:1365:ASP:N	2.82	0.47
1:O:156:HIS:CE1	1:O:160:ARG:HE	2.32	0.47
1:O:183:GLN:HG2	1:O:1073:TYR:OH	2.13	0.47
1:O:544:HIS:CD2	1:O:546:ALA:HB3	2.48	0.47
1:O:840:GLN:HA	4:s:61:LEU:HD11	1.96	0.47
1:O:1057:ARG:NH2	1:O:1319:GLU:OE1	2.47	0.47
1:P:151:THR:CG2	1:P:154:SER:CB	2.92	0.47
2:Q:99:ASN:N	2:Q:99:ASN:HD22	2.12	0.47
3:S:296:LEU:HD21	3:S:434:ARG:HE	1.79	0.47
2:T:124:GLN:NE2	2:T:124:GLN:HA	2.28	0.47
2:U:12:ILE:HA	2:U:43:LEU:HD22	1.96	0.47
3:V:131:LEU:HD21	3:V:251:LEU:HD12	1.95	0.47
3:V:143:LEU:HD23	3:V:146:HIS:CB	2.43	0.47
3:V:200:ALA:O	3:V:204:ALA:HB3	2.14	0.47
3:V:311:TYR:HB2	3:V:330:VAL:HG22	1.95	0.47
2:W:99:ASN:N	2:W:99:ASN:HD22	2.12	0.47
3:Y:234:MET:O	3:Y:239:VAL:O	2.32	0.47
2:Z:99:ASN:HD22	2:Z:99:ASN:N	2.12	0.47
2:Z:219:LEU:HA	2:a:246:VAL:HG21	1.94	0.47
2:a:32:VAL:CG1	2:a:46:VAL:HG13	2.42	0.47
2:a:260:MET:O	2:a:261:LEU:C	2.56	0.47
4:g:22:MET:HG3	4:g:61:LEU:HD23	1.95	0.47
4:j:3:ALA:C	4:j:40:TYR:CB	2.74	0.47
4:k:46:THR:CB	4:k:50:VAL:HG12	2.43	0.47
4:q:22:MET:HG3	4:q:61:LEU:HD23	1.95	0.47
4:q:44:HIS:CG	4:q:47:GLN:O	2.67	0.47
1:G:326:VAL:O	1:G:326:VAL:HG13	2.13	0.47
1:G:524:CYS:O	1:G:525:GLN:C	2.55	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:942:PRO:HG3	1:G:968:ASP:HB2	1.95	0.47
1:G:1159:PRO:HA	1:G:1172:PRO:HD3	1.95	0.47
1:A:77:VAL:HA	1:A:266:HIS:CD2	2.50	0.47
1:A:261:VAL:O	1:A:262:PRO:C	2.56	0.47
1:A:465:SER:CA	1:A:468:ASN:HD22	2.24	0.47
1:B:74:GLY:HA3	1:B:376:PHE:CZ	2.49	0.47
1:B:86:GLU:HG2	1:B:311:LEU:HD22	1.95	0.47
1:B:431:GLU:HA	1:B:431:GLU:OE1	2.12	0.47
1:B:857:PRO:HB3	1:B:863:HIS:ND1	2.29	0.47
1:C:310:VAL:CG2	1:C:312:ASN:ND2	2.77	0.47
1:C:530:GLN:CA	1:C:536:ASN:ND2	2.76	0.47
1:C:586:LEU:HD23	1:C:1245:TRP:CZ2	2.48	0.47
1:C:1249:ARG:HG2	1:C:1250:PHE:CD2	2.48	0.47
1:D:176:PHE:HE2	1:D:1093:LEU:HD13	1.77	0.47
1:D:403:VAL:CG2	1:D:1331:ALA:HB3	2.44	0.47
1:D:415:ARG:O	1:D:1358:PHE:HA	2.13	0.47
1:E:102:PRO:HD2	1:F:387:ALA:HB3	1.96	0.47
1:E:530:GLN:C	1:E:536:ASN:ND2	2.65	0.47
1:E:797:ASP:OD1	1:E:798:ARG:N	2.43	0.47
1:E:817:VAL:HG11	1:E:938:LEU:HD21	1.96	0.47
1:F:579:ASN:HD21	1:F:595:ARG:HH21	1.62	0.47
1:H:304:VAL:HG11	1:H:358:PRO:CG	2.44	0.47
1:H:776:PHE:HA	1:H:903:GLU:HB2	1.96	0.47
1:H:829:GLY:HA3	1:H:905:THR:HG21	1.95	0.47
1:H:836:TYR:CD1	1:H:839:LEU:HD12	2.49	0.47
1:H:1095:GLN:NE2	1:H:1097:ARG:CZ	2.77	0.47
1:I:274:VAL:HG11	1:I:376:PHE:CE2	2.48	0.47
1:I:365:ALA:HB1	1:I:376:PHE:HE1	1.79	0.47
1:I:1070:SER:CB	1:I:1107:THR:HG21	2.44	0.47
1:J:596:GLY:HA2	1:J:599:LEU:HB2	1.96	0.47
1:J:831:ARG:O	1:J:835:VAL:HG23	2.13	0.47
1:K:347:ASN:O	1:K:348:ARG:C	2.56	0.47
1:K:1220:GLY:O	1:K:1221:ASP:C	2.55	0.47
1:L:429:HIS:HB3	1:L:430:PRO:HD2	1.96	0.47
1:M:500:ASP:OD2	1:M:504:ARG:NH2	2.47	0.47
1:M:520:TRP:CE3	1:M:1004:GLN:HB2	2.48	0.47
1:M:543:LEU:HD23	1:M:1250:PHE:O	2.14	0.47
1:M:815:VAL:HG22	1:M:1028:TYR:HE2	1.79	0.47
1:M:937:VAL:HG12	1:M:939:LEU:CD1	2.44	0.47
1:M:1042:THR:HG22	1:M:1042:THR:O	2.14	0.47
1:N:279:VAL:HG12	1:N:394:LEU:CD1	2.44	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:888:GLY:HA3	4:r:69:ALA:HB2	1.95	0.47
1:O:847:ILE:CG2	4:s:70:ASN:O	2.61	0.47
1:O:1355:GLU:CD	1:P:1344:ARG:HE	2.23	0.47
1:P:960:VAL:HG23	1:P:961:HIS:H	1.80	0.47
1:P:1133:ARG:O	1:P:1133:ARG:HG3	2.13	0.47
2:Q:160:ILE:CG2	2:R:223:LEU:CD2	2.90	0.47
3:S:234:MET:O	3:S:239:VAL:O	2.32	0.47
3:S:350:LEU:CD1	3:S:350:LEU:H	2.27	0.47
2:U:159:GLY:CA	2:U:193:GLN:HE21	2.28	0.47
2:X:12:ILE:HA	2:X:43:LEU:HD22	1.96	0.47
2:Z:147:LEU:HD12	2:Z:181:TYR:HD2	1.79	0.47
2:d:159:GLY:CA	2:d:193:GLN:HE21	2.28	0.47
3:e:137:PRO:CD	3:e:138:THR:CB	2.92	0.47
4:h:106:PRO:HG2	4:h:107:LYS:N	2.29	0.47
4:j:104:ARG:O	4:j:106:PRO:CD	2.62	0.47
4:n:86:GLU:N	4:n:105:ASP:CB	2.73	0.47
1:G:183:GLN:HB3	1:G:1073:TYR:OH	2.13	0.47
1:G:295:VAL:HG23	1:G:369:ALA:H	1.57	0.47
1:G:494:PRO:CD	1:G:755:ARG:HH11	2.14	0.47
1:G:961:HIS:NE2	1:G:1002:ILE:O	2.44	0.47
1:A:136:ALA:O	1:A:137:THR:C	2.55	0.47
1:A:202:GLN:O	1:A:205:LEU:N	2.46	0.47
1:A:454:MET:C	1:A:456:ASN:H	2.21	0.47
1:A:956:TYR:HE1	1:A:958:LEU:CB	2.26	0.47
1:A:1248:GLN:O	1:A:1251:SER:HB3	2.15	0.47
1:B:105:ALA:N	1:C:175:ALA:HB1	2.29	0.47
1:B:106:ARG:NH2	1:C:390:VAL:HG13	2.30	0.47
1:B:574:THR:HG21	1:B:998:TYR:O	2.14	0.47
1:B:976:PHE:CE2	1:B:981:ARG:HD2	2.50	0.47
1:C:267:ALA:HB1	1:C:274:VAL:H	1.77	0.47
1:C:417:ALA:HB2	1:C:1358:PHE:CZ	2.40	0.47
1:C:998:TYR:HA	1:C:1003:ARG:HE	1.79	0.47
1:D:392:TYR:CE2	1:D:394:LEU:HB2	2.50	0.47
1:E:1058:PHE:CE1	1:E:1122:MET:HE3	2.49	0.47
1:H:1071:GLU:C	1:H:1102:LEU:HD23	2.39	0.47
1:I:293:LEU:C	1:I:295:VAL:N	2.72	0.47
1:I:722:LEU:HD22	1:I:916:ALA:O	2.14	0.47
1:I:834:ARG:HH11	4:o:94:LEU:H	1.61	0.47
1:I:1241:THR:CG2	1:I:1247:SER:OG	2.61	0.47
1:J:259:VAL:O	1:J:1068:ARG:NH2	2.47	0.47
1:J:492:ALA:N	1:J:992:PRO:HB2	2.30	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:759:GLY:HA3	1:J:780:ASP:CA	2.43	0.47
1:J:892:LEU:HD21	4:o:65:GLY:C	2.39	0.47
1:K:1133:ARG:O	1:K:1133:ARG:HG3	2.14	0.47
1:L:79:CYS:HG	1:L:81:CYS:HG	1.62	0.47
1:M:198:LEU:HD22	1:M:254:ALA:HB1	1.96	0.47
1:M:302:VAL:N	1:M:303:PRO:CD	2.77	0.47
1:M:816:LEU:O	1:M:819:ALA:O	2.32	0.47
1:M:1196:ILE:HG22	1:M:1196:ILE:O	2.15	0.47
1:N:275:ASP:OD2	1:N:373:ARG:NH1	2.45	0.47
1:N:381:GLU:O	1:N:386:ALA:HB2	2.15	0.47
1:N:588:PRO:HD3	1:N:1193:ALA:HB2	1.97	0.47
1:O:861:PRO:HA	1:O:866:HIS:CD2	2.50	0.47
1:O:981:ARG:HH22	1:P:802:PRO:HB3	1.78	0.47
1:O:1054:ARG:HH12	1:O:1056:ASP:CG	2.21	0.47
1:P:182:ASP:O	1:P:186:HIS:ND1	2.36	0.47
3:S:428:MET:C	3:S:430:ASP:H	2.20	0.47
2:T:119:PRO:HG3	2:T:138:ARG:HH22	1.79	0.47
2:U:21:ALA:O	2:U:25:GLN:HG2	2.14	0.47
3:V:120:CYS:SG	3:V:184:LEU:O	2.73	0.47
2:a:32:VAL:C	2:a:34:LEU:N	2.71	0.47
2:a:74:VAL:HG12	2:a:75:ILE:N	2.28	0.47
2:a:126:THR:HG22	2:a:139:PHE:HD2	1.79	0.47
3:b:113:GLN:CG	3:b:114:VAL:N	2.77	0.47
3:e:131:LEU:HD21	3:e:251:LEU:HD12	1.95	0.47
3:e:200:ALA:O	3:e:204:ALA:HB3	2.14	0.47
4:h:46:THR:CB	4:h:50:VAL:HG12	2.43	0.47
4:l:44:HIS:CG	4:l:47:GLN:O	2.67	0.47
4:s:44:HIS:CG	4:s:47:GLN:O	2.67	0.47
1:G:263:ARG:HH12	1:G:359:GLN:HE22	1.60	0.47
1:G:425:PRO:C	1:G:429:HIS:CE1	2.74	0.47
1:A:29:VAL:C	1:A:31:SER:H	2.21	0.47
1:A:77:VAL:HG22	1:A:376:PHE:HE2	1.77	0.47
1:A:577:VAL:HG21	1:A:1001:SER:HA	1.96	0.47
1:A:740:ASP:OD1	1:A:785:HIS:HE1	1.97	0.47
1:A:1026:ALA:HA	1:A:1029:PHE:HE2	1.80	0.47
1:B:135:LEU:HD12	1:B:136:ALA:H	1.79	0.47
1:B:456:ASN:OD1	1:B:1126:PRO:HG3	2.14	0.47
1:B:956:TYR:CE1	1:B:958:LEU:HD12	2.32	0.47
1:C:611:ILE:HG22	1:C:615:ARG:HH12	1.78	0.47
1:D:96:GLN:HB2	1:I:11:TYR:HE1	1.79	0.47
1:D:201:MET:HG3	1:D:205:LEU:HD21	1.97	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:302:VAL:HG13	1:D:360:THR:HB	1.97	0.47
1:D:1147:LEU:HA	1:D:1147:LEU:HD12	1.56	0.47
1:D:1270:LEU:HD22	1:D:1303:ALA:HB2	1.96	0.47
1:E:509:TRP:O	1:E:513:LEU:HB3	2.13	0.47
1:E:1048:PHE:HA	1:E:1192:VAL:HG13	1.97	0.47
1:E:1073:TYR:OH	1:E:1097:ARG:HD3	2.14	0.47
1:E:1221:ASP:HA	1:E:1224:ALA:HB3	1.96	0.47
1:F:77:VAL:HB	1:F:266:HIS:ND1	2.30	0.47
1:F:642:CYS:HA	1:F:645:ALA:HB2	1.95	0.47
1:F:724:HIS:CD2	1:F:726:MET:H	2.33	0.47
1:F:737:TRP:CZ3	1:F:935:ALA:HB1	2.49	0.47
1:F:1082:ARG:HA	1:F:1090:ASN:O	2.14	0.47
1:F:1291:ARG:O	1:F:1294:VAL:HG22	2.15	0.47
1:H:305:THR:CG2	1:H:306:TYR:H	2.06	0.47
1:H:410:ASN:CB	1:H:415:ARG:HG2	2.45	0.47
1:H:696:HIS:CE1	1:H:1021:THR:HG21	2.49	0.47
1:H:915:ASP:O	1:H:918:ALA:N	2.43	0.47
1:H:1191:PRO:HD3	1:H:1243:ASN:OD1	2.14	0.47
1:I:269:THR:O	1:I:270:ARG:C	2.57	0.47
1:I:419:HIS:CD2	1:I:420:ALA:N	2.83	0.47
1:I:525:GLN:HE22	1:I:536:ASN:HB3	1.78	0.47
1:I:583:PRO:HG2	1:I:586:LEU:HB2	1.96	0.47
1:I:861:PRO:HA	1:I:866:HIS:CG	2.49	0.47
1:J:129:LEU:HD12	1:J:1097:ARG:HE	1.80	0.47
1:J:141:ALA:HB1	1:J:147:ALA:CB	2.44	0.47
1:J:419:HIS:O	1:J:420:ALA:C	2.56	0.47
1:J:1206:ARG:CG	1:J:1247:SER:HA	2.43	0.47
1:K:74:GLY:O	1:K:77:VAL:HG12	2.13	0.47
1:K:1277:PHE:CD1	1:K:1277:PHE:N	2.82	0.47
1:L:347:ASN:ND2	1:M:163:GLN:HB2	2.29	0.47
1:L:403:VAL:C	1:L:404:LEU:HD12	2.39	0.47
1:L:756:ILE:CD1	1:L:756:ILE:C	2.86	0.47
1:L:815:VAL:HG22	1:L:1028:TYR:HE2	1.79	0.47
1:L:920:THR:HA	1:L:1139:LEU:HG	1.96	0.47
1:L:1125:LEU:HD13	1:L:1156:ARG:HB3	1.95	0.47
1:M:730:ALA:CB	1:M:750:ARG:HH12	2.27	0.47
1:M:732:LEU:CD2	1:M:745:HIS:HD2	2.27	0.47
1:M:783:LEU:O	1:M:784:LEU:HD23	2.14	0.47
1:M:1095:GLN:NE2	1:M:1097:ARG:HE	2.11	0.47
1:N:581:ASN:O	1:N:1005:PRO:HG2	2.14	0.47
1:N:738:ASP:HB3	1:N:787:THR:CB	2.39	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:841:ASN:CG	4:r:57:GLN:HE22	2.22	0.47
1:O:47:ASN:HD21	3:V:276:THR:HG21	1.79	0.47
1:O:451:ARG:O	1:O:1124:ASN:OD1	2.33	0.47
1:O:678:LEU:HB3	1:O:682:LEU:HD13	1.95	0.47
1:O:1051:THR:CG2	1:O:1188:ILE:HB	2.44	0.47
1:O:1134:GLY:HA3	1:O:1263:LEU:HA	1.95	0.47
1:O:1215:ALA:CB	1:O:1221:ASP:OD2	2.58	0.47
1:P:429:HIS:HB3	1:P:430:PRO:HD3	1.94	0.47
1:P:786:ASN:O	1:P:787:THR:HG23	2.14	0.47
2:Q:124:GLN:NE2	2:Q:124:GLN:HA	2.28	0.47
3:V:310:LEU:CD2	3:V:331:LYS:HG3	2.45	0.47
2:X:44:ALA:HA	2:X:135:LEU:CD1	2.44	0.47
2:X:92:LEU:O	2:X:316:ARG:NH2	2.47	0.47
2:X:163:LEU:O	2:X:163:LEU:HG	2.14	0.47
3:Y:80:ARG:O	3:Y:83:THR:HG23	2.13	0.47
3:Y:120:CYS:SG	3:Y:184:LEU:O	2.73	0.47
3:Y:310:LEU:CD2	3:Y:331:LYS:HG3	2.44	0.47
3:Y:425:LEU:O	3:Y:458:ARG:N	2.45	0.47
2:a:94:HIS:HB2	2:a:97:THR:CA	2.44	0.47
3:b:208:ARG:O	3:b:212:THR:HG23	2.13	0.47
3:b:242:HIS:HD2	3:b:243:GLU:N	2.06	0.47
3:b:316:TYR:O	3:b:349:ARG:CB	2.62	0.47
2:c:105:PRO:HD2	2:c:143:LEU:CD2	2.44	0.47
3:e:287:THR:HG22	3:e:288:ILE:N	2.28	0.47
4:i:44:HIS:CG	4:i:47:GLN:O	2.67	0.47
4:j:22:MET:O	4:j:25:LEU:CB	2.57	0.47
4:j:44:HIS:CG	4:j:47:GLN:O	2.67	0.47
4:p:44:HIS:CG	4:p:47:GLN:O	2.67	0.47
1:G:330:ASP:C	1:G:332:VAL:N	2.72	0.47
1:G:770:ASN:H	1:G:773:THR:HB	1.79	0.47
1:A:326:VAL:HG13	1:A:326:VAL:O	2.15	0.47
1:A:359:GLN:CD	1:A:359:GLN:N	2.72	0.47
1:A:452:LEU:HD13	1:A:1052:VAL:HG21	1.97	0.47
1:A:1226:MET:SD	1:A:1279:ALA:CB	2.98	0.47
1:B:98:GLU:O	1:C:62:CYS:HA	2.14	0.47
1:B:905:THR:CG2	1:B:956:TYR:OH	2.62	0.47
1:B:985:ARG:HD2	1:C:705:ASP:OD2	2.14	0.47
1:C:840:GLN:CD	4:i:58:ALA:HB2	2.36	0.47
1:C:905:THR:CG2	1:C:956:TYR:OH	2.62	0.47
1:C:1248:GLN:O	1:C:1251:SER:OG	2.21	0.47
1:D:501:MET:HE2	1:D:958:LEU:HD22	1.96	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:775:ASP:O	1:D:903:GLU:HB2	2.14	0.47
1:F:1276:PHE:CZ	1:F:1330:GLU:N	2.83	0.47
1:H:114:GLN:HE22	1:I:134:SER:HB2	1.79	0.47
1:I:101:GLN:OE1	1:I:116:VAL:HG23	2.10	0.47
1:I:493:ALA:CB	1:I:755:ARG:NH1	2.77	0.47
1:I:1229:HIS:HE1	1:I:1247:SER:O	1.85	0.47
1:J:238:GLY:HA3	1:J:287:ARG:HH21	1.79	0.47
1:J:260:ALA:HA	1:J:1068:ARG:HH22	1.78	0.47
1:J:754:CYS:HA	1:J:910:CYS:HA	1.96	0.47
1:J:983:LEU:O	1:J:986:HIS:O	2.32	0.47
1:J:1115:VAL:HG11	1:J:1374:LEU:HD21	1.88	0.47
1:K:234:LEU:HD21	1:K:287:ARG:HD3	1.97	0.47
1:K:543:LEU:HB3	1:K:1251:SER:HA	1.95	0.47
1:K:1054:ARG:NH1	1:K:1122:MET:HA	2.30	0.47
1:K:1080:VAL:HG22	1:K:1093:LEU:CD2	2.45	0.47
1:K:1089:VAL:HG12	1:K:1090:ASN:N	2.29	0.47
1:K:1134:GLY:CA	1:K:1263:LEU:HD22	2.44	0.47
1:K:1277:PHE:C	1:K:1278:THR:HG22	2.38	0.47
1:L:348:ARG:HE	1:M:170:GLN:HE22	1.62	0.47
1:L:403:VAL:CG2	1:L:1331:ALA:HB3	2.43	0.47
1:L:481:VAL:HG22	1:L:482:GLU:O	2.15	0.47
1:L:701:ALA:O	1:L:727:ARG:NH2	2.47	0.47
1:M:293:LEU:HD11	1:M:377:LEU:HD13	1.95	0.47
1:M:463:HIS:C	1:M:465:SER:H	2.22	0.47
1:M:544:HIS:HD2	1:M:547:PHE:HD2	1.60	0.47
1:M:626:VAL:CG1	1:M:878:MET:HG3	2.45	0.47
1:M:1133:ARG:O	1:M:1133:ARG:HG3	2.15	0.47
1:N:775:ASP:HB3	1:N:778:ARG:HD2	1.95	0.47
1:O:742:LEU:O	1:O:742:LEU:HD23	2.15	0.47
1:P:258:SER:OG	1:P:259:VAL:N	2.47	0.47
1:P:743:MET:CE	1:P:785:HIS:CD2	2.98	0.47
1:P:1061:GLU:OE2	1:P:1116:ARG:HD2	2.14	0.47
3:S:198:TYR:CZ	3:S:294:VAL:CG1	2.98	0.47
2:T:21:ALA:O	2:T:25:GLN:HG2	2.15	0.47
3:Y:148:ALA:HB1	3:Y:154:THR:HG22	1.95	0.47
2:Z:160:ILE:HD11	2:Z:210:VAL:HG23	1.97	0.47
3:b:190:LEU:C	3:b:190:LEU:CD2	2.85	0.47
3:b:214:ASN:C	3:b:215:TYR:CD1	2.91	0.47
3:b:319:CYS:HA	3:b:323:GLU:HG3	1.97	0.47
3:b:334:LEU:CD2	3:b:334:LEU:H	2.28	0.47
2:c:160:ILE:HD13	2:c:206:VAL:HG13	1.96	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:e:310:LEU:CD2	3:e:331:LYS:HG3	2.44	0.47
3:e:428:MET:C	3:e:430:ASP:H	2.20	0.47
4:g:1:MET:H2	4:g:5:GLN:HB3	1.79	0.47
4:h:10:SER:H	4:h:17:VAL:CB	2.24	0.47
4:n:46:THR:CB	4:n:50:VAL:HG12	2.43	0.47
4:o:20:LEU:C	4:o:20:LEU:CD1	2.86	0.47
4:o:44:HIS:HD2	4:o:47:GLN:O	1.98	0.47
4:t:106:PRO:HG2	4:t:107:LYS:H	1.79	0.47
1:A:422:ASP:HA	1:F:419:HIS:HA	1.97	0.47
1:A:945:LEU:O	1:A:946:ASP:CG	2.57	0.47
1:B:263:ARG:HH12	1:B:307:GLY:N	2.12	0.47
1:B:544:HIS:ND1	1:B:1252:TYR:HB2	2.29	0.47
1:B:1050:PHE:CD1	1:B:1187:PHE:HB3	2.50	0.47
1:C:106:ARG:NH2	1:C:110:HIS:CE1	2.83	0.47
1:D:105:ALA:N	1:E:175:ALA:HB1	2.30	0.47
1:D:227:PHE:HE2	1:D:1324:PRO:HG3	1.76	0.47
1:D:1208:ARG:NH2	1:D:1240:ALA:O	2.48	0.47
1:D:1236:ARG:HH22	1:D:1242:ALA:HA	1.75	0.47
1:E:213:ARG:HH11	1:F:1176:GLY:HA2	1.80	0.47
1:E:892:LEU:CG	4:k:65:GLY:HA2	2.44	0.47
1:F:618:PHE:O	1:F:941:ALA:HB2	2.14	0.47
1:F:863:HIS:CE1	1:F:865:LEU:HB2	2.49	0.47
1:H:299:GLU:OE1	1:H:364:ARG:HD2	2.12	0.47
1:H:409:PHE:CD1	1:H:591:PHE:HD1	2.32	0.47
1:H:741:GLY:O	1:H:745:HIS:CD2	2.67	0.47
1:H:1059:VAL:O	1:H:1116:ARG:HB2	2.13	0.47
1:I:663:ALA:N	1:I:690:TYR:OH	2.43	0.47
1:I:845:PRO:HG3	1:I:869:ASN:OD1	2.15	0.47
1:J:38:PHE:O	1:K:120:MET:HA	2.14	0.47
1:J:400:LEU:CD1	1:J:400:LEU:N	2.76	0.47
1:J:582:LEU:HD11	1:J:587:CYS:HB2	1.97	0.47
1:J:725:LEU:N	1:J:1028:TYR:O	2.47	0.47
1:J:778:ARG:HH22	1:J:782:ARG:HD2	1.78	0.47
1:L:207:ASN:OD1	1:L:208:GLY:N	2.44	0.47
1:L:889:PRO:N	4:q:69:ALA:HB2	2.30	0.47
1:M:159:LEU:O	1:M:163:GLN:HG2	2.15	0.47
1:M:182:ASP:HB3	1:M:385:TYR:OH	2.13	0.47
1:M:884:VAL:HG12	1:M:886:VAL:HG23	1.95	0.47
1:N:81:CYS:HB3	1:N:306:TYR:CE1	2.50	0.47
1:N:957:VAL:HG21	1:N:969:HIS:O	2.14	0.47
1:N:1029:PHE:HB3	1:N:1039:GLN:OE1	2.15	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:1335:THR:OG1	1:N:1365:ASP:HB2	2.15	0.47
1:O:580:GLY:HA2	1:O:592:ARG:NH1	2.29	0.47
1:O:626:VAL:HG23	1:O:627:PHE:CD1	2.49	0.47
1:O:1120:THR:C	1:O:1122:MET:H	2.22	0.47
1:P:266:HIS:ND1	1:P:266:HIS:C	2.72	0.47
1:P:305:THR:CG2	1:P:306:TYR:N	2.77	0.47
1:P:433:ARG:NH1	1:P:1341:ALA:HB3	2.30	0.47
1:P:847:ILE:HG13	1:P:848:ALA:N	2.30	0.47
2:R:92:LEU:O	2:R:316:ARG:NH2	2.47	0.47
3:S:279:PRO:HB3	3:S:284:SER:HA	1.97	0.47
3:V:279:PRO:HB3	3:V:285:ALA:N	2.30	0.47
3:Y:435:CYS:O	3:Y:451:ILE:N	2.48	0.47
2:Z:93:THR:HG22	2:Z:317:TYR:HB2	1.96	0.47
2:a:111:GLY:O	2:a:296:ARG:CG	2.62	0.47
2:a:199:ASN:O	2:a:203:ARG:N	2.37	0.47
3:b:37:LEU:O	3:b:39:PRO:O	2.32	0.47
3:b:120:CYS:SG	3:b:184:LEU:O	2.73	0.47
3:b:141:PRO:HD2	3:b:144:ALA:HB2	1.97	0.47
3:e:271:GLN:O	3:e:274:THR:CG2	2.50	0.47
4:f:46:THR:CB	4:f:50:VAL:HG12	2.43	0.47
4:g:9:PRO:C	4:g:17:VAL:CB	2.87	0.47
4:j:46:THR:CB	4:j:50:VAL:HG12	2.43	0.47
4:m:9:PRO:HG3	4:m:18:ARG:CB	2.44	0.47
4:q:9:PRO:HB3	4:q:19:ALA:H	1.79	0.47
4:r:9:PRO:HB3	4:r:18:ARG:N	2.30	0.47
1:G:400:LEU:HD21	1:G:1324:PRO:HG2	1.95	0.47
1:G:454:MET:C	1:G:456:ASN:H	2.21	0.47
1:G:830:VAL:HG12	1:G:831:ARG:N	2.29	0.47
1:A:109:PRO:HG3	3:S:255:VAL:HG11	1.93	0.47
1:A:129:LEU:O	1:A:176:PHE:HE1	1.96	0.47
1:A:262:PRO:HA	1:B:60:SER:HB2	1.96	0.47
1:A:577:VAL:HG12	1:A:578:VAL:HG13	1.96	0.47
1:A:776:PHE:CD1	1:A:903:GLU:HA	2.48	0.47
1:A:1065:PHE:O	1:A:1108:ALA:HA	2.13	0.47
1:A:1248:GLN:O	1:A:1251:SER:CB	2.63	0.47
1:B:137:THR:O	1:B:138:GLU:C	2.57	0.47
1:B:141:ALA:HA	1:B:146:GLU:OE1	2.15	0.47
1:B:418:ALA:HB3	1:B:1354:ARG:NH2	2.29	0.47
1:B:437:PRO:HB3	1:B:1338:SER:HB2	1.96	0.47
1:B:606:MET:HG3	1:B:696:HIS:CD2	2.49	0.47
1:B:782:ARG:O	1:B:783:LEU:HD12	2.15	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:827:THR:HG21	1:B:960:VAL:HG22	1.96	0.47
1:B:838:THR:OG1	1:B:954:TYR:OH	2.30	0.47
1:C:509:TRP:O	1:C:513:LEU:HB3	2.15	0.47
1:C:627:PHE:CE1	1:C:651:CYS:HB3	2.50	0.47
1:C:867:PRO:HG3	4:j:78:MET:O	2.15	0.47
1:C:953:GLU:HG3	1:C:954:TYR:N	2.28	0.47
1:C:959:PRO:CB	1:C:964:PHE:O	2.62	0.47
1:C:1052:VAL:HA	1:C:1186:GLU:O	2.14	0.47
1:C:1161:GLN:O	1:C:1162:PRO:C	2.53	0.47
1:D:77:VAL:HG23	1:D:266:HIS:ND1	2.29	0.47
1:D:821:SER:CB	1:D:825:CYS:SG	3.02	0.47
1:D:1083:HIS:O	1:D:1083:HIS:CD2	2.68	0.47
1:E:509:TRP:N	1:E:509:TRP:CD1	2.82	0.47
1:E:726:MET:HE3	1:E:815:VAL:HG23	1.96	0.47
1:F:409:PHE:CD1	1:F:591:PHE:HD1	2.33	0.47
1:F:422:ASP:N	1:F:424:VAL:HG23	2.30	0.47
1:F:759:GLY:HA3	1:F:779:ASN:O	2.15	0.47
1:F:786:ASN:ND2	1:F:786:ASN:C	2.72	0.47
1:H:272:ARG:NE	1:H:374:LEU:HG	2.30	0.47
1:H:296:GLU:C	1:H:297:ASP:OD1	2.58	0.47
1:H:385:TYR:CD2	1:H:392:TYR:HD1	2.32	0.47
1:H:531:PHE:CE1	1:H:1244:PRO:HD3	2.50	0.47
1:H:582:LEU:HD13	1:H:587:CYS:CB	2.45	0.47
1:H:892:LEU:CD1	4:m:65:GLY:HA2	2.45	0.47
1:H:1118:PRO:HD3	1:H:1374:LEU:HD22	1.96	0.47
1:H:1198:TYR:CD1	1:H:1198:TYR:O	2.68	0.47
1:I:493:ALA:HB2	1:I:755:ARG:HH12	1.79	0.47
1:I:888:GLY:C	4:n:69:ALA:HB2	2.39	0.47
1:I:911:SER:HB3	1:I:929:PHE:CD1	2.49	0.47
1:I:1229:HIS:CD2	1:I:1241:THR:CG2	2.97	0.47
1:J:278:LEU:HD23	1:J:377:LEU:CD1	2.45	0.47
1:J:405:PRO:CB	1:J:408:LEU:HD12	2.44	0.47
1:J:595:ARG:O	1:J:598:GLU:HB3	2.14	0.47
1:J:665:VAL:HA	1:J:671:VAL:HG21	1.96	0.47
1:J:1029:PHE:HB3	1:J:1039:GLN:NE2	2.24	0.47
1:J:1056:ASP:CG	1:J:1120:THR:HG21	2.40	0.47
1:J:1076:GLY:N	1:J:1095:GLN:HE21	2.13	0.47
1:J:1321:VAL:CG1	1:J:1323:ASP:HB2	2.45	0.47
1:K:152:GLY:O	1:K:156:HIS:HB2	2.15	0.47
1:K:205:LEU:HD11	1:K:1290:GLU:OE2	2.15	0.47
1:K:232:PHE:HA	1:K:1113:ALA:HA	1.97	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:487:TYR:OH	1:K:989:LEU:HA	2.15	0.47
1:K:544:HIS:HA	1:K:1252:TYR:HB2	1.96	0.47
1:K:696:HIS:CE1	1:K:1021:THR:HG21	2.48	0.47
1:K:831:ARG:HG2	1:K:954:TYR:O	2.15	0.47
1:K:948:THR:OG1	1:K:949:ILE:N	2.47	0.47
1:L:299:GLU:N	1:L:299:GLU:OE1	2.45	0.47
1:L:301:ASP:O	1:L:303:PRO:HD3	2.15	0.47
1:L:472:ALA:HB2	1:L:1255:LEU:HD11	1.97	0.47
1:L:948:THR:O	4:f:103:VAL:CB	2.63	0.47
1:L:1057:ARG:O	1:L:1118:PRO:O	2.32	0.47
1:L:1195:ASP:N	1:L:1195:ASP:OD1	2.45	0.47
1:M:213:ARG:HH12	1:M:1216:GLY:HA3	1.79	0.47
1:M:367:LEU:HB3	1:M:374:LEU:HD11	1.96	0.47
1:M:827:THR:HG21	1:M:960:VAL:HG22	1.95	0.47
1:M:857:PRO:HB3	1:M:863:HIS:CE1	2.49	0.47
1:M:1201:ARG:CD	1:N:448:GLN:OE1	2.63	0.47
1:N:117:HIS:CD2	1:O:164:GLN:HE22	2.32	0.47
1:N:495:ALA:HB3	1:N:504:ARG:HH12	1.80	0.47
1:N:790:ARG:NH1	4:r:103:VAL:O	2.48	0.47
1:N:804:ASP:HB3	1:N:808:HIS:CE1	2.49	0.47
1:N:1206:ARG:HH12	1:N:1226:MET:CG	2.22	0.47
1:N:1227:TYR:CD2	1:N:1249:ARG:NH2	2.83	0.47
1:O:77:VAL:CB	1:O:266:HIS:NE2	2.78	0.47
1:O:77:VAL:CG1	1:O:277:VAL:HG22	2.44	0.47
1:O:417:ALA:HB3	1:P:424:VAL:HB	1.97	0.47
1:O:872:ALA:H	4:t:107:LYS:CE	2.27	0.47
1:O:958:LEU:HD22	1:O:994:LEU:HD11	1.96	0.47
1:O:1197:ASN:HA	1:O:1200:ARG:HG3	1.96	0.47
1:P:32:HIS:HB3	1:P:35:LEU:HD22	1.97	0.47
1:P:293:LEU:C	1:P:295:VAL:N	2.72	0.47
1:P:752:ARG:CZ	1:P:913:ALA:CB	2.59	0.47
1:P:866:HIS:HD2	1:P:868:ALA:HB3	1.80	0.47
1:P:933:LEU:HG	1:P:960:VAL:HG11	1.97	0.47
1:P:1029:PHE:HB3	1:P:1039:GLN:HE22	1.79	0.47
1:P:1113:ALA:O	1:P:1114:THR:HB	2.14	0.47
1:P:1369:LEU:HD12	1:P:1374:LEU:HD11	1.97	0.47
2:R:111:GLY:O	2:R:296:ARG:CG	2.62	0.47
3:S:187:PHE:CE2	3:S:290:ALA:O	2.66	0.47
3:S:210:HIS:CD2	3:S:214:ASN:HD22	2.33	0.47
3:S:287:THR:HG22	3:S:288:ILE:N	2.28	0.47
3:S:339:LEU:HD22	3:S:422:PHE:CE2	2.45	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:V:234:MET:O	3:V:239:VAL:O	2.32	0.47
3:V:314:PHE:HA	3:V:326:CYS:O	2.15	0.47
2:X:21:ALA:O	2:X:25:GLN:HG2	2.14	0.47
2:X:295:VAL:HG13	2:X:314:VAL:CG1	2.45	0.47
3:Y:314:PHE:HA	3:Y:326:CYS:O	2.15	0.47
2:Z:106:VAL:HG12	2:Z:305:VAL:HG13	1.83	0.47
2:a:295:VAL:HG13	2:a:314:VAL:CG1	2.45	0.47
3:b:127:ALA:HB2	3:b:285:ALA:O	1.95	0.47
3:b:322:GLN:NE2	3:b:322:GLN:CA	2.78	0.47
3:e:131:LEU:HD11	3:e:251:LEU:HD12	1.97	0.47
3:e:234:MET:O	3:e:239:VAL:O	2.32	0.47
3:e:271:GLN:HB2	3:e:457:TRP:NE1	2.26	0.47
3:e:296:LEU:HD21	3:e:434:ARG:HE	1.79	0.47
3:e:314:PHE:HA	3:e:326:CYS:O	2.15	0.47
4:g:3:ALA:C	4:g:40:TYR:CB	2.74	0.47
4:n:106:PRO:HG2	4:n:107:LYS:N	2.29	0.47
4:n:107:LYS:HB2	4:n:107:LYS:HE3	1.68	0.47
4:q:22:MET:O	4:q:25:LEU:CB	2.57	0.47
4:r:1:MET:H2	4:r:5:GLN:HB3	1.76	0.47
4:r:46:THR:CB	4:r:50:VAL:HG12	2.43	0.47
1:G:101:GLN:HB3	1:G:116:VAL:HG23	1.97	0.47
1:G:182:ASP:C	1:G:186:HIS:HD1	2.19	0.47
1:G:541:LEU:HD23	1:G:541:LEU:HA	1.51	0.47
1:G:1133:ARG:HB2	1:G:1263:LEU:O	2.15	0.47
1:G:1302:THR:HB	1:G:1313:ARG:CB	2.44	0.47
1:A:372:ASP:C	1:A:373:ARG:CG	2.85	0.47
1:A:805:TRP:CE2	1:A:809:HIS:CE1	3.01	0.47
1:A:842:MET:CE	4:g:61:LEU:HD13	2.44	0.47
1:A:956:TYR:CZ	1:A:958:LEU:HD23	2.49	0.47
1:A:1188:ILE:HD11	1:A:1273:CYS:SG	2.54	0.47
1:B:252:THR:HG23	1:B:373:ARG:NE	2.26	0.47
1:B:363:VAL:HG22	1:B:364:ARG:H	1.79	0.47
1:B:768:ALA:CA	1:B:786:ASN:HD22	2.12	0.47
1:B:840:GLN:OE1	4:h:58:ALA:HA	2.15	0.47
1:B:1133:ARG:HG3	1:B:1133:ARG:O	2.15	0.47
1:C:278:LEU:HD12	1:C:1065:PHE:HD1	1.79	0.47
1:C:544:HIS:CD2	1:C:547:PHE:HD2	2.32	0.47
1:C:732:LEU:HD13	1:C:736:VAL:HG21	1.96	0.47
1:C:917:GLY:CA	1:C:1034:VAL:HG23	2.42	0.47
1:C:1057:ARG:O	1:C:1119:VAL:HB	2.15	0.47
1:D:124:ILE:HG22	1:D:125:ASP:N	2.30	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:582:LEU:CD1	1:D:1031:MET:CE	2.75	0.47
1:D:604:HIS:O	1:D:1022:TYR:OH	2.23	0.47
1:D:883:ARG:C	1:D:884:VAL:HG23	2.39	0.47
1:E:42:VAL:HG12	1:E:44:SER:O	2.14	0.47
1:E:316:LEU:O	1:E:320:LEU:HG	2.15	0.47
1:E:531:PHE:O	1:E:1240:ALA:N	2.42	0.47
1:E:920:THR:O	1:E:1139:LEU:CD2	2.63	0.47
1:F:423:LEU:HD13	1:F:433:ARG:NH2	2.21	0.47
1:F:604:HIS:HD2	1:F:696:HIS:CD2	2.33	0.47
1:H:487:TYR:CD2	1:H:520:TRP:HH2	2.32	0.47
1:H:577:VAL:HG21	1:H:1001:SER:HA	1.96	0.47
1:I:529:GLU:HA	1:I:532:MET:HE3	0.66	0.47
1:J:142:LEU:HD12	1:J:158:GLN:HB2	1.96	0.47
1:J:245:GLU:OE2	1:J:292:PHE:HB3	2.14	0.47
1:J:845:PRO:HG3	1:J:869:ASN:OD1	2.15	0.47
1:J:914:PRO:CD	1:J:919:ASN:CB	2.92	0.47
1:J:924:ALA:HB2	1:J:1139:LEU:CD1	2.44	0.47
1:J:998:TYR:HA	1:J:1003:ARG:HE	1.78	0.47
1:J:1260:ALA:O	1:J:1262:HIS:CE1	2.67	0.47
1:J:1340:PRO:O	1:J:1344:ARG:HG3	2.14	0.47
1:K:439:GLN:CG	1:K:451:ARG:NH1	2.75	0.47
1:K:921:ALA:O	1:K:924:ALA:HB3	2.15	0.47
1:L:403:VAL:HG21	1:L:1331:ALA:HB3	1.95	0.47
1:L:827:THR:O	1:L:957:VAL:O	2.32	0.47
1:L:1079:GLN:NE2	1:L:1094:THR:HG23	2.30	0.47
1:L:1218:LYS:HZ2	2:d:184:ALA:HA	1.73	0.47
1:M:92:GLU:O	1:N:55:ASP:HB2	2.15	0.47
1:M:1374:LEU:HD12	1:M:1374:LEU:O	2.13	0.47
1:N:520:TRP:CD1	1:N:997:ASN:ND2	2.83	0.47
1:N:541:LEU:HA	1:N:541:LEU:HD23	1.58	0.47
1:N:756:ILE:HG13	1:N:757:ASP:H	1.78	0.47
1:N:841:ASN:OD1	4:r:26:VAL:HG22	2.14	0.47
1:N:915:ASP:OD1	1:N:918:ALA:HB3	2.15	0.47
1:N:1321:VAL:HG13	1:N:1322:GLU:N	2.29	0.47
1:O:356:SER:O	1:O:357:ALA:C	2.57	0.47
1:O:739:CYS:HB2	1:O:785:HIS:CG	2.50	0.47
1:O:976:PHE:CE2	1:O:981:ARG:HD2	2.50	0.47
1:O:1211:GLY:N	1:O:1329:GLN:HG2	2.29	0.47
1:P:198:LEU:O	1:P:198:LEU:HD23	2.14	0.47
1:P:646:ARG:CZ	4:t:78:MET:CB	2.93	0.47
1:P:681:ASP:OD1	1:P:681:ASP:N	2.46	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R:16:ILE:HD12	2:R:16:ILE:HA	1.77	0.47
3:S:251:LEU:HD23	3:S:254:TRP:CE3	2.44	0.47
3:S:347:PHE:HD2	3:S:419:TYR:HE2	1.59	0.47
2:T:161:ARG:CZ	2:T:176:LEU:HG	2.44	0.47
2:T:227:LEU:HD11	2:T:228:LEU:CD1	2.11	0.47
2:T:306:VAL:HG21	2:T:312:ALA:HB2	1.96	0.47
3:V:131:LEU:HD11	3:V:251:LEU:HD12	1.97	0.47
2:W:21:ALA:O	2:W:25:GLN:HG2	2.15	0.47
2:W:100:LEU:CD1	2:W:314:VAL:HG21	2.45	0.47
3:Y:131:LEU:HD11	3:Y:251:LEU:HD12	1.97	0.47
3:Y:333:GLN:OE1	3:Y:333:GLN:N	2.44	0.47
2:c:21:ALA:O	2:c:25:GLN:HG2	2.15	0.47
2:d:12:ILE:HA	2:d:43:LEU:HD22	1.96	0.47
2:d:32:VAL:HG23	2:d:75:ILE:HD11	1.97	0.47
2:d:295:VAL:HG13	2:d:314:VAL:CG1	2.45	0.47
4:m:1:MET:H2	4:m:5:GLN:HB3	1.76	0.47
4:m:22:MET:HG3	4:m:61:LEU:HD23	1.95	0.47
1:G:75:LEU:HD11	1:G:184:MET:HG3	1.95	0.47
1:G:233:PHE:CE2	1:G:244:ILE:HD13	2.50	0.47
1:G:408:LEU:HD13	1:G:1194:THR:O	2.14	0.47
1:G:624:PRO:HB2	1:G:626:VAL:HG22	1.97	0.47
1:G:1240:ALA:C	1:G:1241:THR:HG23	2.40	0.47
1:A:75:LEU:CD2	1:A:380:LEU:HD11	2.45	0.47
1:A:409:PHE:CD1	1:A:591:PHE:HD1	2.33	0.47
1:A:452:LEU:HD11	1:A:1052:VAL:HG11	1.96	0.47
1:A:822:ARG:HD2	1:A:1011:ARG:HA	1.96	0.47
1:A:1057:ARG:HH12	1:A:1321:VAL:CG2	2.27	0.47
1:B:844:VAL:HG12	4:h:68:HIS:CB	2.45	0.47
1:C:758:ALA:HB1	1:C:904:ARG:NH2	2.26	0.47
1:C:766:ALA:O	1:C:785:HIS:HB2	2.15	0.47
1:C:840:GLN:HB2	4:i:61:LEU:CD1	2.45	0.47
1:C:1072:ALA:HB3	1:C:1100:VAL:N	2.28	0.47
1:C:1340:PRO:O	1:C:1344:ARG:HG3	2.15	0.47
1:D:871:VAL:HG12	1:D:872:ALA:N	2.29	0.47
1:E:873:ASN:OD1	4:l:92:PHE:C	2.58	0.47
1:E:1190:THR:HG22	1:E:1243:ASN:ND2	2.30	0.47
1:F:454:MET:HB3	1:F:1040:LEU:HD22	1.97	0.47
1:F:514:ALA:HB2	1:F:980:LEU:HD21	1.97	0.47
1:F:836:TYR:CD1	1:F:839:LEU:HD12	2.50	0.47
1:F:1340:PRO:O	1:F:1344:ARG:HG3	2.14	0.47
1:H:103:LEU:HD11	1:H:115:PRO:CA	2.44	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:541:LEU:HA	1:H:541:LEU:HD23	1.57	0.47
1:H:837:ALA:HB2	4:m:54:LEU:HD11	1.97	0.47
1:J:73:LEU:HD12	1:J:74:GLY:N	2.28	0.47
1:J:272:ARG:CZ	1:J:374:LEU:HD13	2.45	0.47
1:J:1050:PHE:CD1	1:J:1189:ALA:HA	2.50	0.47
1:K:589:VAL:HG13	1:K:1009:HIS:CD2	2.50	0.47
1:L:469:ILE:O	1:L:473:VAL:HG12	2.15	0.47
1:L:863:HIS:O	1:L:869:ASN:ND2	2.47	0.47
1:M:514:ALA:HA	1:M:983:LEU:HD13	1.96	0.47
1:M:911:SER:HB3	1:M:929:PHE:CD1	2.50	0.47
1:N:837:ALA:HB2	4:r:54:LEU:HD11	1.97	0.47
1:O:1056:ASP:CG	1:O:1122:MET:HG2	2.40	0.47
2:R:32:VAL:HG23	2:R:75:ILE:HD11	1.97	0.47
3:S:164:LEU:HD13	3:S:227:PHE:HA	1.97	0.47
3:V:198:TYR:C	3:V:198:TYR:HD1	2.22	0.47
3:V:313:VAL:HG22	3:V:422:PHE:CB	2.45	0.47
2:W:119:PRO:HG3	2:W:138:ARG:HH22	1.79	0.47
2:W:160:ILE:CD1	2:W:210:VAL:HG22	2.45	0.47
3:b:107:ARG:C	3:b:108:TYR:CD2	2.93	0.47
3:e:164:LEU:O	3:e:167:ALA:HB3	2.14	0.47
3:e:333:GLN:OE1	3:e:333:GLN:N	2.44	0.47
4:g:44:HIS:CG	4:g:47:GLN:O	2.67	0.47
4:o:1:MET:H2	4:o:5:GLN:CB	2.25	0.47
4:q:107:LYS:CG	4:q:108:THR:H	2.26	0.47
4:s:10:SER:O	4:s:17:VAL:N	2.47	0.47
1:G:714:LEU:HD13	1:G:719:GLN:HE22	1.79	0.47
1:G:915:ASP:O	1:G:919:ASN:HB2	2.14	0.47
1:G:1182:ASP:HB2	1:G:1309:VAL:CB	2.45	0.47
1:G:1287:ARG:HA	1:G:1292:LEU:HD21	1.96	0.47
1:A:278:LEU:HG	1:A:377:LEU:HD12	1.97	0.47
1:A:804:ASP:HB3	1:A:808:HIS:CE1	2.49	0.47
1:A:1054:ARG:CZ	1:A:1122:MET:O	2.63	0.47
1:B:277:VAL:CB	1:B:1066:SER:HB3	2.44	0.47
1:B:303:PRO:HD3	1:B:360:THR:HA	1.97	0.47
1:B:316:LEU:O	1:B:320:LEU:HG	2.15	0.47
1:B:428:GLY:O	1:B:429:HIS:CG	2.68	0.47
1:C:84:PHE:HD1	1:C:309:MET:HB3	1.79	0.47
1:C:834:ARG:HH12	4:j:97:THR:HG21	1.79	0.47
1:C:845:PRO:HG3	1:C:869:ASN:OD1	2.15	0.47
1:E:579:ASN:C	1:E:582:LEU:CD1	2.79	0.47
1:F:627:PHE:CE1	1:F:651:CYS:HB3	2.49	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:220:VAL:HG21	1:H:1213:VAL:HG11	1.95	0.47
1:H:408:LEU:HD21	1:H:1190:THR:OG1	2.15	0.47
1:H:606:MET:HG3	1:H:696:HIS:CD2	2.50	0.47
1:H:836:TYR:HD1	1:H:897:LEU:HD13	1.80	0.47
1:I:302:VAL:N	1:I:303:PRO:HD3	2.30	0.47
1:I:816:LEU:O	1:I:819:ALA:N	2.48	0.47
1:I:1059:VAL:O	1:I:1116:ARG:N	2.48	0.47
1:J:261:VAL:HB	1:J:1068:ARG:HH12	1.80	0.47
1:J:287:ARG:HG2	1:J:292:PHE:HE2	1.80	0.47
1:J:338:ASP:O	1:J:341:GLU:HB2	2.15	0.47
1:J:611:ILE:HG23	1:J:820:PHE:CE1	2.50	0.47
1:J:957:VAL:O	1:J:957:VAL:HG23	2.14	0.47
1:K:841:ASN:C	1:K:874:THR:HG1	2.21	0.47
1:K:846:GLU:OE1	4:p:67:THR:OG1	2.33	0.47
1:K:1197:ASN:O	1:K:1198:TYR:C	2.58	0.47
1:L:269:THR:CG2	1:L:367:LEU:HD12	2.45	0.47
1:L:527:THR:O	1:L:528:ALA:HB3	2.14	0.47
1:L:681:ASP:O	1:L:682:LEU:HD12	2.15	0.47
1:L:1208:ARG:NH2	1:L:1240:ALA:O	2.44	0.47
1:M:33:ARG:NH2	1:M:39:PHE:HB3	2.30	0.47
1:M:776:PHE:CD2	1:M:833:ASP:HB3	2.50	0.47
1:N:185:LEU:O	1:N:189:LEU:HD13	2.15	0.47
1:N:785:HIS:ND1	1:N:785:HIS:C	2.73	0.47
1:O:1266:ALA:H	2:a:54:GLY:CA	2.26	0.47
1:P:439:GLN:HE21	1:P:451:ARG:HH12	1.56	0.47
1:P:548:ASP:O	1:P:573:ALA:HA	2.14	0.47
1:P:831:ARG:O	1:P:835:VAL:HG23	2.15	0.47
1:P:1037:TYR:O	1:P:1041:LYS:HG2	2.15	0.47
2:Q:100:LEU:CD1	2:Q:314:VAL:HG21	2.45	0.47
2:Q:295:VAL:HG12	2:Q:315:ILE:O	2.15	0.47
2:R:159:GLY:HA3	2:R:193:GLN:NE2	2.30	0.47
2:R:193:GLN:HG2	2:R:198:VAL:HG21	1.97	0.47
2:R:295:VAL:CG1	2:R:314:VAL:HG11	2.45	0.47
3:S:121:GLN:HB3	3:S:215:TYR:CD2	2.50	0.47
3:S:311:TYR:OH	3:S:334:LEU:O	2.30	0.47
3:S:347:PHE:HD2	3:S:419:TYR:CE2	2.33	0.47
2:U:161:ARG:HH11	2:U:176:LEU:HD12	1.80	0.47
3:V:127:ALA:CB	3:V:286:VAL:HA	2.44	0.47
3:V:311:TYR:OH	3:V:334:LEU:O	2.30	0.47
3:Y:187:PHE:CE2	3:Y:290:ALA:O	2.66	0.47
2:a:291:LEU:HA	3:b:337:ARG:HD2	1.96	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:b:322:GLN:HE21	3:b:322:GLN:H	1.61	0.47
2:c:99:ASN:N	2:c:99:ASN:HD22	2.12	0.47
3:e:279:PRO:HB3	3:e:284:SER:N	2.30	0.47
4:k:22:MET:HE2	4:k:60:ALA:HB1	1.92	0.47
4:l:74:ALA:HB1	4:l:75:PRO:CD	2.45	0.47
4:m:74:ALA:HB1	4:m:75:PRO:CD	2.45	0.47
4:q:3:ALA:C	4:q:40:TYR:CB	2.74	0.47
1:G:131:ALA:O	1:G:1093:LEU:N	2.47	0.46
1:G:493:ALA:HB2	1:G:560:GLY:HA2	1.97	0.46
1:G:866:HIS:ND1	1:G:867:PRO:HD2	2.30	0.46
1:A:86:GLU:CB	1:A:89:TYR:CD2	2.98	0.46
1:A:633:ALA:HB1	1:A:897:LEU:HD21	1.97	0.46
1:A:836:TYR:HA	1:A:839:LEU:HB2	1.97	0.46
1:B:124:ILE:HD12	1:B:125:ASP:O	2.15	0.46
1:B:347:ASN:OD1	1:B:348:ARG:N	2.48	0.46
1:B:599:LEU:O	1:B:603:ARG:HD2	2.15	0.46
1:B:606:MET:HB2	1:B:1018:ASN:HD21	1.80	0.46
1:B:837:ALA:HB3	4:i:94:LEU:O	2.15	0.46
1:B:1188:ILE:HD11	1:B:1273:CYS:SG	2.54	0.46
1:B:1315:PRO:C	3:S:260:LEU:CD2	2.76	0.46
1:C:101:GLN:NE2	1:M:28:GLU:HA	2.30	0.46
1:C:415:ARG:O	1:C:1358:PHE:HA	2.15	0.46
1:C:839:LEU:O	1:C:894:LEU:HD21	2.15	0.46
1:C:861:PRO:O	1:C:869:ASN:ND2	2.48	0.46
1:C:998:TYR:O	1:C:1003:ARG:NH2	2.44	0.46
1:C:1012:GLU:O	1:C:1013:SER:C	2.56	0.46
1:D:416:PHE:HD2	1:D:418:ALA:H	1.61	0.46
1:D:502:GLN:OE1	1:D:957:VAL:HG13	2.15	0.46
1:D:506:LEU:HD21	1:D:989:LEU:HD23	1.96	0.46
1:D:1197:ASN:C	1:D:1199:PHE:H	2.22	0.46
1:D:1201:ARG:HH22	1:E:1179:HIS:CE1	2.31	0.46
1:D:1206:ARG:NH1	1:D:1247:SER:O	2.47	0.46
1:E:633:ALA:HB2	1:E:839:LEU:HD11	1.97	0.46
1:F:266:HIS:CE1	1:F:376:PHE:CE2	3.03	0.46
1:F:272:ARG:HH22	1:F:373:ARG:CA	2.27	0.46
1:F:678:LEU:HB3	1:F:682:LEU:HD13	1.97	0.46
1:H:72:GLU:CA	1:H:363:VAL:HG11	2.45	0.46
1:H:106:ARG:HH21	1:I:390:VAL:HG22	1.80	0.46
1:I:530:GLN:CA	1:I:536:ASN:HD22	2.29	0.46
1:I:1009:HIS:CD2	1:I:1013:SER:HB3	2.49	0.46
1:J:74:GLY:HA2	1:J:376:PHE:CE2	2.50	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:105:ALA:O	1:J:106:ARG:HG3	2.15	0.46
1:J:610:THR:CB	1:J:692:ASP:HB3	2.44	0.46
1:J:1181:GLN:HE21	1:J:1310:GLN:HA	1.80	0.46
1:J:1198:TYR:HD1	1:J:1236:ARG:HH11	1.55	0.46
1:K:633:ALA:HB2	1:K:839:LEU:CD1	2.45	0.46
1:L:199:LEU:HB2	1:L:200:PRO:HD3	1.97	0.46
1:L:1037:TYR:O	1:L:1041:LYS:HG2	2.15	0.46
1:M:69:ARG:O	3:e:41:ILE:HD11	2.15	0.46
1:N:863:HIS:O	1:N:869:ASN:ND2	2.48	0.46
1:N:915:ASP:OD1	1:N:915:ASP:N	2.46	0.46
1:O:45:ASP:OD1	1:O:50:TYR:OH	2.23	0.46
1:O:501:MET:HE2	1:O:958:LEU:CD2	2.32	0.46
1:O:1037:TYR:O	1:O:1041:LYS:HG2	2.15	0.46
1:P:556:VAL:CG2	1:P:565:PRO:HD2	2.45	0.46
1:P:755:ARG:O	1:P:755:ARG:HG2	2.14	0.46
1:P:776:PHE:CD2	1:P:833:ASP:HB3	2.49	0.46
1:P:917:GLY:O	1:P:1138:LEU:HD22	2.15	0.46
3:S:131:LEU:HD11	3:S:251:LEU:HD12	1.97	0.46
2:T:100:LEU:CD1	2:T:314:VAL:HG21	2.45	0.46
2:U:92:LEU:O	2:U:316:ARG:NH2	2.47	0.46
2:U:295:VAL:CG1	2:U:314:VAL:HG11	2.45	0.46
3:V:211:ILE:HG12	3:V:215:TYR:CD1	2.51	0.46
3:b:346:LEU:HD13	3:b:346:LEU:C	2.39	0.46
2:c:124:GLN:NE2	2:c:124:GLN:HA	2.28	0.46
3:e:200:ALA:HB3	3:e:294:VAL:CG1	2.45	0.46
3:e:292:ALA:C	3:e:294:VAL:H	2.04	0.46
4:i:74:ALA:HB1	4:i:75:PRO:CD	2.46	0.46
4:p:74:ALA:HB1	4:p:75:PRO:CD	2.46	0.46
4:t:7:HIS:NE2	4:t:44:HIS:ND1	2.63	0.46
1:G:297:ASP:C	1:G:365:ALA:O	2.58	0.46
1:G:604:HIS:O	1:G:1022:TYR:OH	2.30	0.46
1:G:863:HIS:CE1	1:G:865:LEU:HB2	2.51	0.46
1:G:1076:GLY:N	1:G:1096:PRO:O	2.42	0.46
1:A:627:PHE:CE1	1:A:651:CYS:HB3	2.51	0.46
1:A:696:HIS:CE1	1:A:1021:THR:HG21	2.45	0.46
1:B:76:SER:C	1:B:266:HIS:HE1	2.23	0.46
1:B:305:THR:O	1:B:306:TYR:C	2.54	0.46
1:B:1211:GLY:N	1:B:1329:GLN:HG2	2.30	0.46
1:C:264:LEU:CD2	1:C:266:HIS:HB2	2.45	0.46
1:C:266:HIS:ND1	1:C:266:HIS:C	2.73	0.46
1:D:452:LEU:HD13	1:D:1052:VAL:HG21	1.96	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:597:LEU:O	1:D:601:VAL:HG13	2.16	0.46
1:E:127:ARG:HD2	1:E:183:GLN:HE21	1.80	0.46
1:E:134:SER:O	1:E:135:LEU:HD12	2.15	0.46
1:E:266:HIS:O	1:E:266:HIS:CG	2.68	0.46
1:F:238:GLY:O	1:F:292:PHE:CZ	2.67	0.46
1:F:595:ARG:O	1:F:595:ARG:HG3	2.15	0.46
1:F:780:ASP:CG	1:F:782:ARG:HG2	2.40	0.46
1:F:834:ARG:HD3	1:F:953:GLU:CG	2.42	0.46
1:H:74:GLY:O	1:H:77:VAL:HG12	2.16	0.46
1:H:458:VAL:HG23	1:H:462:CYS:SG	2.55	0.46
1:H:582:LEU:CD1	1:H:587:CYS:CB	2.93	0.46
1:H:863:HIS:CE1	1:H:865:LEU:HB2	2.51	0.46
1:H:959:PRO:HB3	1:H:964:PHE:O	2.15	0.46
1:H:1221:ASP:O	1:H:1225:LEU:HB2	2.15	0.46
1:I:77:VAL:CB	1:I:266:HIS:CE1	2.91	0.46
1:I:87:LEU:HD23	1:I:90:MET:SD	2.55	0.46
1:I:463:HIS:CE1	1:I:465:SER:HB3	2.51	0.46
1:I:752:ARG:HH21	1:I:752:ARG:CA	2.25	0.46
1:I:937:VAL:HG11	1:I:955:PHE:CE1	2.51	0.46
1:J:75:LEU:C	1:J:77:VAL:N	2.70	0.46
1:J:462:CYS:HB3	1:J:1037:TYR:CE2	2.50	0.46
1:J:766:ALA:C	1:J:796:ASP:CG	2.83	0.46
1:K:193:PRO:HG3	1:K:198:LEU:HD12	1.97	0.46
1:K:671:VAL:O	1:K:675:VAL:HG23	2.15	0.46
1:K:911:SER:HB3	1:K:929:PHE:CD2	2.50	0.46
1:K:1277:PHE:O	1:K:1278:THR:HB	2.15	0.46
1:L:291:SER:C	1:L:294:LYS:HG3	2.41	0.46
1:L:1222:VAL:O	1:L:1223:ILE:HG13	2.04	0.46
1:M:32:HIS:HB3	1:M:35:LEU:CD1	2.42	0.46
1:M:140:ILE:HD11	1:M:1089:VAL:H	1.79	0.46
1:M:417:ALA:O	1:M:418:ALA:HB3	2.15	0.46
1:M:626:VAL:HG13	1:M:878:MET:HG3	1.97	0.46
1:M:857:PRO:HB3	1:M:863:HIS:ND1	2.30	0.46
1:M:1270:LEU:CD2	1:M:1303:ALA:HB2	2.45	0.46
1:N:1082:ARG:HD3	1:N:1091:PHE:CE1	2.49	0.46
1:O:73:LEU:HD22	1:O:380:LEU:HD21	1.96	0.46
1:O:133:PHE:O	1:O:1090:ASN:HA	2.15	0.46
1:O:1223:ILE:HG13	1:O:1227:TYR:HD2	1.80	0.46
1:P:127:ARG:NH1	1:P:187:VAL:HG12	2.29	0.46
1:P:335:HIS:O	1:P:339:MET:N	2.45	0.46
1:P:525:GLN:C	1:P:526:MET:O	2.47	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R:260:MET:O	2:R:261:LEU:C	2.56	0.46
2:T:99:ASN:N	2:T:99:ASN:HD22	2.12	0.46
2:T:180:TYR:CD2	2:T:185:ARG:CB	2.98	0.46
2:U:193:GLN:HG2	2:U:198:VAL:HG21	1.97	0.46
3:V:296:LEU:HD21	3:V:434:ARG:HE	1.79	0.46
3:V:347:PHE:HD2	3:V:419:TYR:CE2	2.34	0.46
2:Z:21:ALA:O	2:Z:25:GLN:HG2	2.15	0.46
2:Z:298:CYS:HB2	2:Z:315:ILE:HD11	1.96	0.46
3:e:127:ALA:CB	3:e:286:VAL:HA	2.44	0.46
3:e:313:VAL:HG22	3:e:422:PHE:CB	2.45	0.46
4:k:74:ALA:HB1	4:k:75:PRO:CD	2.46	0.46
4:r:74:ALA:HB1	4:r:75:PRO:CD	2.46	0.46
1:A:111:PRO:HG3	2:Q:301:ASP:CA	2.44	0.46
1:A:219:LEU:O	1:A:223:LEU:N	2.48	0.46
1:A:224:LYS:HZ2	1:A:1330:GLU:CD	2.12	0.46
1:A:295:VAL:HG22	1:A:368:VAL:CA	2.45	0.46
1:B:1039:GLN:OE1	1:B:1046:PRO:HB3	2.15	0.46
1:D:842:MET:SD	4:j:61:LEU:CD2	3.03	0.46
1:D:866:HIS:HD2	1:D:868:ALA:HB3	1.79	0.46
1:E:487:TYR:CD2	1:E:520:TRP:HZ2	2.34	0.46
1:F:530:GLN:C	1:F:536:ASN:HD22	2.21	0.46
1:F:1229:HIS:NE2	1:F:1241:THR:HG21	2.30	0.46
1:H:915:ASP:O	1:H:916:ALA:C	2.57	0.46
1:I:264:LEU:C	1:I:266:HIS:H	2.23	0.46
1:I:735:LEU:HD22	1:I:936:GLY:HA3	1.97	0.46
1:I:866:HIS:HD2	1:I:868:ALA:H	1.57	0.46
1:I:918:ALA:HB2	1:I:1032:SER:HB2	1.98	0.46
1:I:1077:GLN:O	1:I:1096:PRO:HD2	2.15	0.46
1:J:301:ASP:O	1:J:362:ARG:HA	2.16	0.46
1:J:500:ASP:OD1	1:J:500:ASP:N	2.45	0.46
1:J:880:HIS:O	1:J:881:ASN:C	2.54	0.46
1:J:1246:ALA:HA	1:J:1253:GLY:HA3	1.97	0.46
1:K:188:LEU:O	1:K:191:LYS:O	2.33	0.46
1:K:275:ASP:HA	1:K:1068:ARG:CG	2.45	0.46
1:K:591:PHE:CE2	1:K:1047:GLY:HA2	2.50	0.46
1:K:764:VAL:O	1:K:782:ARG:HA	2.16	0.46
1:L:278:LEU:HD11	1:L:370:ILE:CD1	2.46	0.46
1:M:607:ALA:O	1:M:610:THR:HG22	2.15	0.46
1:M:739:CYS:SG	1:M:785:HIS:HB2	2.55	0.46
1:M:1059:VAL:HG11	1:M:1116:ARG:HH21	1.79	0.46
1:N:1083:HIS:CG	1:N:1084:GLU:N	2.84	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:505:PHE:CE1	1:O:509:TRP:CD1	3.04	0.46
1:O:564:PRO:O	1:O:566:ALA:N	2.48	0.46
1:P:544:HIS:CE1	1:P:1252:TYR:CD1	3.03	0.46
1:P:1051:THR:HG23	1:P:1190:THR:CG2	2.45	0.46
2:Q:195:LEU:O	2:Q:199:ASN:ND2	2.46	0.46
2:Q:276:VAL:HG11	2:R:154:ARG:NE	2.31	0.46
2:R:44:ALA:CB	2:R:135:LEU:HD11	2.45	0.46
2:R:295:VAL:HG13	2:R:314:VAL:CG1	2.45	0.46
3:S:310:LEU:CD2	3:S:331:LYS:HG3	2.44	0.46
3:S:314:PHE:HA	3:S:326:CYS:O	2.15	0.46
2:U:295:VAL:CG1	2:U:314:VAL:CG1	2.94	0.46
3:V:140:LEU:HA	3:V:140:LEU:HD23	1.67	0.46
2:X:111:GLY:O	2:X:296:ARG:CG	2.62	0.46
2:X:136:THR:O	2:X:137:LEU:HD23	2.16	0.46
3:Y:142:HIS:ND1	3:Y:142:HIS:C	2.73	0.46
3:Y:210:HIS:CD2	3:Y:214:ASN:HD22	2.33	0.46
3:Y:210:HIS:HA	3:Y:445:VAL:CG2	2.45	0.46
2:Z:33:PHE:CZ	2:Z:67:TYR:HD2	2.33	0.46
3:b:163:GLN:HB2	3:b:226:ARG:HD2	1.96	0.46
2:c:63:LEU:O	2:c:66:ALA:N	2.48	0.46
2:d:295:VAL:CG1	2:d:314:VAL:HG11	2.45	0.46
4:f:22:MET:O	4:f:25:LEU:CB	2.57	0.46
4:g:22:MET:O	4:g:25:LEU:CB	2.57	0.46
4:j:21:GLY:O	4:j:22:MET:C	2.58	0.46
4:n:7:HIS:NE2	4:n:44:HIS:ND1	2.63	0.46
4:o:44:HIS:CG	4:o:47:GLN:O	2.67	0.46
4:q:7:HIS:NE2	4:q:44:HIS:ND1	2.63	0.46
1:G:299:GLU:CB	1:G:363:VAL:HG13	2.45	0.46
1:G:962:ALA:HB1	1:G:988:PRO:HB2	1.98	0.46
1:G:1029:PHE:CB	1:G:1039:GLN:HE21	2.27	0.46
1:G:1199:PHE:O	1:G:1333:PRO:HG2	2.11	0.46
1:A:42:VAL:HG21	1:A:49:LEU:HD21	1.98	0.46
1:A:406:LEU:HD13	1:A:440:LEU:HB2	1.97	0.46
1:A:481:VAL:HG22	1:A:482:GLU:N	2.30	0.46
1:A:631:GLN:OE1	1:A:666:ASN:ND2	2.48	0.46
1:B:544:HIS:HD2	1:B:546:ALA:H	1.60	0.46
1:B:1152:VAL:CG1	1:B:1159:PRO:HD2	2.45	0.46
1:C:405:PRO:O	1:C:440:LEU:HD22	2.15	0.46
1:C:532:MET:HB2	1:C:534:PRO:HD2	1.97	0.46
1:C:909:LEU:HD11	1:C:929:PHE:HB3	1.97	0.46
1:C:1042:THR:HG22	1:C:1042:THR:O	2.16	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:43:ARG:HE	1:L:114:GLN:HB2	1.78	0.46
1:D:978:PRO:O	1:D:981:ARG:HG2	2.15	0.46
1:E:596:GLY:HA3	1:E:1023:ALA:HB2	1.97	0.46
1:E:871:VAL:HG12	1:E:872:ALA:N	2.30	0.46
1:F:1276:PHE:CE1	1:F:1329:GLN:CA	2.82	0.46
1:H:933:LEU:HG	1:H:960:VAL:HG11	1.98	0.46
1:I:90:MET:HB3	1:J:54:PHE:CZ	2.50	0.46
1:I:92:GLU:O	1:J:55:ASP:OD1	2.33	0.46
1:I:403:VAL:HG13	1:I:1331:ALA:HB3	1.95	0.46
1:I:874:THR:HG23	1:I:877:ALA:N	2.11	0.46
1:J:267:ALA:O	1:J:272:ARG:O	2.33	0.46
1:J:401:THR:HB	1:J:1055:GLN:HA	1.92	0.46
1:J:890:ALA:O	1:J:893:THR:OG1	2.33	0.46
1:J:1048:PHE:CE2	1:J:1050:PHE:CE1	3.03	0.46
1:J:1115:VAL:HG11	1:J:1374:LEU:HD11	1.96	0.46
1:J:1147:LEU:HA	1:J:1147:LEU:HD12	1.42	0.46
1:K:1340:PRO:HD3	1:P:413:MET:HG2	1.98	0.46
1:L:87:LEU:HD12	1:L:87:LEU:C	2.40	0.46
1:L:724:HIS:CD2	1:L:726:MET:H	2.33	0.46
1:L:1079:GLN:NE2	1:L:1094:THR:CG2	2.73	0.46
1:L:1233:ASP:HB3	1:L:1236:ARG:O	2.16	0.46
1:M:78:ALA:HB2	1:M:277:VAL:HG23	1.98	0.46
1:M:130:ASN:ND2	1:M:1094:THR:HB	2.31	0.46
1:M:708:THR:HA	1:M:1038:HIS:HB3	1.96	0.46
1:M:815:VAL:C	1:M:818:PRO:HD2	2.41	0.46
1:M:933:LEU:HG	1:M:960:VAL:CG1	2.46	0.46
1:M:1301:SER:HB3	1:M:1321:VAL:HG21	1.96	0.46
1:N:94:ARG:HG2	1:N:123:VAL:HG22	1.96	0.46
1:N:415:ARG:HG3	1:N:415:ARG:O	2.16	0.46
1:N:439:GLN:HG2	1:N:451:ARG:CD	2.46	0.46
1:N:960:VAL:HG23	1:N:961:HIS:H	1.80	0.46
1:O:217:ALA:HB1	1:P:1178:ASP:O	2.16	0.46
1:O:247:TRP:HE3	1:O:248:LEU:HD12	1.81	0.46
1:O:367:LEU:HD21	1:O:376:PHE:CD1	2.50	0.46
1:O:700:LEU:O	1:O:1025:MET:HE2	2.15	0.46
1:P:326:VAL:HB	1:P:329:LEU:HB2	1.97	0.46
1:P:1354:ARG:HH22	1:P:1357:HIS:CD2	2.31	0.46
3:S:198:TYR:CE1	3:S:294:VAL:HG11	2.50	0.46
2:U:44:ALA:CB	2:U:135:LEU:HD11	2.45	0.46
2:U:136:THR:O	2:U:137:LEU:HD23	2.16	0.46
2:X:32:VAL:HG23	2:X:75:ILE:HD11	1.97	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:X:127:ASP:C	2:X:128:VAL:HG12	2.39	0.46
3:Y:242:HIS:CE1	3:Y:421:ALA:HB2	2.50	0.46
3:b:188:ASN:C	3:b:211:ILE:HD11	2.41	0.46
3:b:234:MET:O	3:b:239:VAL:O	2.32	0.46
2:c:33:PHE:CZ	2:c:67:TYR:HD2	2.33	0.46
3:e:210:HIS:CD2	3:e:214:ASN:HD22	2.33	0.46
3:e:240:PHE:HZ	3:e:418:THR:HG21	1.77	0.46
4:i:46:THR:CB	4:i:50:VAL:HG12	2.43	0.46
4:m:46:THR:CB	4:m:50:VAL:HG12	2.43	0.46
1:G:35:LEU:HD12	1:G:38:PHE:CB	2.46	0.46
1:G:263:ARG:CD	1:G:264:LEU:CD1	2.93	0.46
1:G:367:LEU:HB3	1:G:374:LEU:CG	2.45	0.46
1:G:458:VAL:O	1:G:462:CYS:HB2	2.16	0.46
1:G:527:THR:HG22	1:G:528:ALA:N	2.30	0.46
1:G:724:HIS:CE1	1:G:1028:TYR:HB2	2.50	0.46
1:G:730:ALA:HB3	1:G:750:ARG:HH12	1.80	0.46
1:A:23:ILE:HG22	1:A:25:SER:H	1.80	0.46
1:A:724:HIS:CE1	1:A:1028:TYR:HB2	2.51	0.46
1:B:416:PHE:CE2	1:C:1341:ALA:HB2	2.50	0.46
1:B:452:LEU:HD13	1:B:1052:VAL:HG21	1.97	0.46
1:B:591:PHE:CZ	1:B:1045:HIS:CD2	3.04	0.46
1:B:1054:ARG:NH1	1:B:1123:GLY:O	2.49	0.46
1:C:445:LYS:HB2	1:C:1122:MET:HG3	1.98	0.46
1:C:983:LEU:HD23	1:C:983:LEU:O	2.14	0.46
1:D:138:GLU:O	1:D:142:LEU:HB2	2.16	0.46
1:D:308:GLU:OE2	1:D:310:VAL:HG13	2.15	0.46
1:D:433:ARG:HD2	1:D:1360:GLN:HG3	1.97	0.46
1:D:532:MET:HE2	1:D:534:PRO:HD2	1.98	0.46
1:D:671:VAL:HG13	1:D:690:TYR:HD1	1.80	0.46
1:D:726:MET:HE1	1:D:814:TYR:HB2	1.98	0.46
1:D:857:PRO:HB3	1:D:863:HIS:CE1	2.50	0.46
1:D:861:PRO:HA	1:D:866:HIS:CD2	2.50	0.46
1:D:1158:GLY:O	1:D:1159:PRO:C	2.57	0.46
1:E:80:VAL:HG13	1:E:263:ARG:HH21	1.81	0.46
1:E:409:PHE:HE2	1:E:415:ARG:NH2	2.13	0.46
1:E:536:ASN:C	1:E:538:ASN:H	2.22	0.46
1:E:724:HIS:CE1	1:E:1028:TYR:HB2	2.50	0.46
1:H:548:ASP:O	1:H:573:ALA:HA	2.16	0.46
1:I:213:ARG:HH11	1:J:1176:GLY:HA2	1.80	0.46
1:I:564:PRO:HG2	1:I:564:PRO:O	2.16	0.46
1:I:933:LEU:HG	1:I:960:VAL:HG11	1.97	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:1169:ALA:HB3	1:I:1268:PRO:HD3	1.98	0.46
1:J:589:VAL:HG13	1:J:1009:HIS:CD2	2.51	0.46
1:J:895:GLN:HB2	4:o:62:THR:HG22	1.97	0.46
1:J:1036:LEU:CD1	1:J:1039:GLN:OE1	2.63	0.46
1:J:1106:TYR:C	1:J:1107:THR:HG1	2.07	0.46
1:K:205:LEU:CD2	1:K:1290:GLU:OE2	2.57	0.46
1:K:485:ASN:HB3	1:K:512:ARG:O	2.16	0.46
1:L:277:VAL:HG12	1:L:279:VAL:HG23	1.98	0.46
1:M:416:PHE:HD1	1:M:418:ALA:H	1.64	0.46
1:M:530:GLN:CG	1:M:536:ASN:ND2	2.62	0.46
1:M:907:ALA:HB1	1:M:994:LEU:HD21	1.97	0.46
1:M:1054:ARG:NH1	1:M:1056:ASP:OD1	2.48	0.46
1:M:1055:GLN:HB3	1:M:1310:GLN:HE22	1.80	0.46
1:N:468:ASN:C	1:N:470:ASP:H	2.24	0.46
1:N:591:PHE:CZ	1:N:1045:HIS:CD2	3.03	0.46
1:N:707:PHE:HA	1:N:1042:THR:HG21	1.98	0.46
1:N:957:VAL:HG12	1:N:958:LEU:N	2.30	0.46
1:N:1161:GLN:HG3	1:N:1162:PRO:CD	2.46	0.46
1:N:1208:ARG:NH1	1:N:1228:ASP:O	2.49	0.46
1:O:295:VAL:O	1:O:297:ASP:N	2.48	0.46
1:O:668:TYR:HB2	1:O:812:TYR:CD2	2.51	0.46
1:O:834:ARG:HA	4:t:94:LEU:CB	2.45	0.46
1:O:1291:ARG:O	1:O:1293:ILE:N	2.49	0.46
1:P:919:ASN:ND2	1:P:919:ASN:C	2.73	0.46
1:P:929:PHE:HD2	1:P:999:PHE:HB3	1.80	0.46
2:R:21:ALA:O	2:R:25:GLN:HG2	2.14	0.46
2:R:97:THR:O	2:R:97:THR:OG1	2.21	0.46
2:T:143:LEU:HD13	2:T:147:LEU:CD2	2.46	0.46
3:V:23:SER:O	3:V:27:LEU:N	2.41	0.46
3:Y:141:PRO:HB3	3:Y:144:ALA:CB	2.41	0.46
2:Z:179:LEU:CD2	2:Z:186:LEU:CD2	2.86	0.46
2:a:37:ILE:HD12	2:a:90:LEU:CD2	2.45	0.46
3:b:110:LEU:C	3:b:110:LEU:CD2	2.85	0.46
3:b:189:PHE:HB2	3:b:211:ILE:HD13	1.91	0.46
3:b:197:ALA:O	3:b:324:LEU:HD23	2.07	0.46
3:b:288:ILE:N	3:b:288:ILE:HD12	2.29	0.46
2:d:136:THR:O	2:d:137:LEU:HD23	2.16	0.46
2:d:161:ARG:CZ	2:d:173:LEU:HB3	2.46	0.46
3:e:211:ILE:HG12	3:e:215:TYR:CD1	2.51	0.46
4:h:11:THR:N	4:h:16:ASN:O	2.48	0.46
4:h:41:PRO:CD	4:h:42:HIS:N	2.79	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:k:41:PRO:CD	4:k:42:HIS:N	2.79	0.46
4:o:7:HIS:NE2	4:o:44:HIS:ND1	2.63	0.46
4:q:41:PRO:CD	4:q:42:HIS:N	2.79	0.46
4:r:7:HIS:NE2	4:r:44:HIS:ND1	2.63	0.46
4:t:3:ALA:C	4:t:40:TYR:CB	2.74	0.46
1:G:1196:ILE:HG21	1:G:1361:TYR:CG	2.50	0.46
1:A:171:ALA:O	1:A:175:ALA:HB2	2.16	0.46
1:A:258:SER:CB	1:A:1069:ALA:O	2.64	0.46
1:A:591:PHE:CZ	1:A:1045:HIS:CD2	3.00	0.46
1:A:1232:SER:HB2	1:A:1237:PRO:O	2.15	0.46
1:B:485:ASN:O	1:B:485:ASN:OD1	2.33	0.46
1:B:493:ALA:CB	1:B:755:ARG:HH21	2.25	0.46
1:B:1082:ARG:HA	1:B:1091:PHE:N	2.31	0.46
1:C:302:VAL:HA	1:C:361:THR:O	2.14	0.46
1:C:491:VAL:HA	1:C:992:PRO:HB2	1.97	0.46
1:C:938:LEU:HD21	1:C:964:PHE:CE1	2.51	0.46
1:C:983:LEU:C	1:C:983:LEU:CD2	2.85	0.46
1:E:1223:ILE:HG23	1:E:1249:ARG:HH22	1.81	0.46
1:F:200:PRO:HB3	1:F:222:GLU:OE2	2.15	0.46
1:F:735:LEU:HD22	1:F:936:GLY:HA3	1.97	0.46
1:F:883:ARG:C	1:F:884:VAL:HG23	2.39	0.46
1:F:968:ASP:O	1:F:972:ASN:ND2	2.44	0.46
1:F:1147:LEU:HA	1:F:1147:LEU:HD12	1.41	0.46
1:H:437:PRO:HB3	1:H:1338:SER:HB2	1.97	0.46
1:H:593:ASP:OD2	1:H:1013:SER:HB2	2.15	0.46
1:I:16:ALA:O	1:I:17:MET:C	2.57	0.46
1:I:302:VAL:HG13	1:I:360:THR:HB	1.97	0.46
1:I:459:GLY:HA2	1:I:1151:VAL:HG11	1.97	0.46
1:I:642:CYS:O	4:n:87:TRP:CB	2.63	0.46
1:J:44:SER:O	1:J:45:ASP:HB2	2.15	0.46
1:J:81:CYS:SG	1:J:306:TYR:CE1	3.09	0.46
1:J:160:ARG:HH11	1:L:14:ALA:CB	2.26	0.46
1:J:461:VAL:CG2	1:J:466:LEU:HD11	2.46	0.46
1:J:577:VAL:HG13	1:J:1030:LYS:HE3	1.97	0.46
1:J:629:LEU:HG	1:J:835:VAL:HG13	1.97	0.46
1:J:1208:ARG:NH2	1:J:1240:ALA:O	2.48	0.46
1:K:678:LEU:HB3	1:K:682:LEU:HD13	1.97	0.46
1:M:180:THR:O	1:M:184:MET:HG2	2.15	0.46
1:M:503:GLN:OE1	1:M:975:ASN:HB2	2.16	0.46
1:M:735:LEU:HD22	1:M:936:GLY:HA3	1.98	0.46
1:N:465:SER:HA	1:N:468:ASN:OD1	2.16	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:817:VAL:HG11	1:N:964:PHE:HE1	1.80	0.46
1:N:1057:ARG:NH1	1:N:1321:VAL:HG22	2.24	0.46
1:N:1131:LEU:HD22	1:N:1169:ALA:O	2.15	0.46
1:N:1204:ASN:HD21	1:N:1329:GLN:HG3	1.79	0.46
1:O:94:ARG:NH1	1:O:123:VAL:CG2	2.76	0.46
1:O:149:ASP:CG	1:O:150:GLY:H	2.24	0.46
1:O:347:ASN:ND2	1:P:163:GLN:HB3	2.31	0.46
1:O:392:TYR:O	1:O:395:VAL:HG12	2.16	0.46
1:O:739:CYS:CB	1:O:785:HIS:ND1	2.77	0.46
1:O:871:VAL:O	1:O:874:THR:HG22	2.15	0.46
1:P:332:VAL:O	1:P:336:LEU:HG	2.15	0.46
1:P:405:PRO:HG2	1:P:1363:ILE:CD1	2.45	0.46
1:P:724:HIS:HE1	1:P:1025:MET:O	1.99	0.46
1:P:817:VAL:HG11	1:P:964:PHE:HE1	1.81	0.46
1:P:1296:THR:OG1	1:P:1327:LEU:HD12	2.16	0.46
2:R:298:CYS:HB3	2:R:315:ILE:HG23	1.98	0.46
3:S:120:CYS:SG	3:S:184:LEU:O	2.73	0.46
3:S:211:ILE:HG12	3:S:215:TYR:CD1	2.51	0.46
3:V:198:TYR:OH	3:V:294:VAL:CG1	2.63	0.46
3:V:210:HIS:CD2	3:V:214:ASN:HD22	2.33	0.46
2:W:60:THR:HG22	2:W:119:PRO:HG2	1.96	0.46
2:X:44:ALA:CB	2:X:135:LEU:HD11	2.45	0.46
3:Y:241:PRO:HB2	3:Y:314:PHE:CE2	2.51	0.46
2:Z:63:LEU:O	2:Z:66:ALA:N	2.48	0.46
2:Z:93:THR:HG22	2:Z:317:TYR:CB	2.46	0.46
2:Z:295:VAL:HG12	2:Z:314:VAL:HG13	1.96	0.46
3:b:287:THR:HG22	3:b:288:ILE:H	1.81	0.46
2:c:100:LEU:CD1	2:c:314:VAL:HG21	2.45	0.46
2:c:295:VAL:HG12	2:c:315:ILE:O	2.15	0.46
4:f:74:ALA:HB1	4:f:75:PRO:CD	2.46	0.46
4:i:7:HIS:NE2	4:i:44:HIS:ND1	2.63	0.46
4:l:22:MET:HE2	4:l:60:ALA:HB1	1.92	0.46
1:G:264:LEU:HD12	1:G:264:LEU:N	2.31	0.46
1:G:277:VAL:HB	1:G:1066:SER:O	2.16	0.46
1:G:409:PHE:CE2	1:G:591:PHE:CA	2.98	0.46
1:G:544:HIS:CD2	1:G:547:PHE:HD2	2.33	0.46
1:A:205:LEU:C	1:A:207:ASN:H	2.24	0.46
1:A:451:ARG:HH21	1:A:453:SER:HB3	1.81	0.46
1:A:1102:LEU:HD12	1:A:1102:LEU:O	2.15	0.46
1:B:233:PHE:HZ	1:B:243:ALA:HB1	1.80	0.46
1:B:469:ILE:O	1:B:472:ALA:N	2.47	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:509:TRP:O	1:B:513:LEU:HB3	2.14	0.46
1:C:1054:ARG:CZ	1:C:1123:GLY:HA3	2.46	0.46
1:E:9:PRO:HD2	1:H:94:ARG:HH22	1.75	0.46
1:E:77:VAL:HA	1:E:266:HIS:CE1	2.50	0.46
1:F:530:GLN:CA	1:F:536:ASN:ND2	2.78	0.46
1:F:541:LEU:HD23	1:F:541:LEU:HA	1.61	0.46
1:F:775:ASP:OD2	1:F:778:ARG:HB3	2.16	0.46
1:H:453:SER:O	1:H:456:ASN:HB3	2.16	0.46
1:H:1107:THR:HG22	1:H:1108:ALA:H	1.80	0.46
1:I:240:ARG:O	1:I:244:ILE:HG12	2.15	0.46
1:I:244:ILE:O	1:I:247:TRP:N	2.49	0.46
1:J:304:VAL:HG23	1:J:358:PRO:CG	2.24	0.46
1:J:491:VAL:H	1:J:558:LEU:HG	1.80	0.46
1:J:700:LEU:HD22	1:J:1025:MET:HG3	1.97	0.46
1:J:738:ASP:CA	1:J:785:HIS:CE1	2.98	0.46
1:J:1050:PHE:HB3	1:J:1187:PHE:HB3	1.96	0.46
1:J:1141:ASN:O	1:J:1145:VAL:HG22	2.16	0.46
1:J:1300:VAL:CG1	1:J:1318:ARG:HG2	2.44	0.46
1:L:278:LEU:HD23	1:L:278:LEU:HA	1.53	0.46
1:L:682:LEU:HD23	1:L:686:CYS:SG	2.55	0.46
1:M:103:LEU:HD12	1:M:115:PRO:HA	1.97	0.46
1:M:208:GLY:HA2	1:M:211:ALA:HB2	1.97	0.46
1:M:238:GLY:HA2	1:M:244:ILE:HD11	1.97	0.46
1:M:544:HIS:CE1	1:M:1252:TYR:CE1	3.01	0.46
1:M:836:TYR:HE1	1:M:897:LEU:HD22	1.81	0.46
1:M:873:ASN:CB	4:r:95:LYS:HE2	2.46	0.46
1:M:1147:LEU:HA	1:M:1147:LEU:HD12	1.25	0.46
1:N:671:VAL:O	1:N:675:VAL:HG23	2.16	0.46
1:N:882:GLY:O	1:N:884:VAL:N	2.49	0.46
1:N:1078:LEU:HD13	3:V:86:ALA:CB	2.45	0.46
1:N:1208:ARG:NH2	1:N:1240:ALA:O	2.48	0.46
1:O:62:CYS:SG	1:O:63:ASN:N	2.85	0.46
1:O:151:THR:HG22	1:O:153:ILE:H	1.80	0.46
2:Q:118:PRO:HG3	2:Q:138:ARG:HB3	1.98	0.46
2:W:33:PHE:CZ	2:W:67:TYR:HD2	2.33	0.46
2:W:143:LEU:HD13	2:W:147:LEU:CD2	2.46	0.46
2:Z:306:VAL:HG21	2:Z:312:ALA:HB2	1.96	0.46
2:a:295:VAL:CG1	2:a:314:VAL:CG1	2.93	0.46
3:e:109:HIS:O	3:e:266:VAL:HG13	2.16	0.46
4:g:74:ALA:HB1	4:g:75:PRO:CD	2.46	0.46
4:h:7:HIS:NE2	4:h:44:HIS:ND1	2.63	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:n:24:GLY:H	4:n:27:LEU:HB2	1.80	0.46
4:p:7:HIS:NE2	4:p:44:HIS:ND1	2.63	0.46
4:s:44:HIS:HD2	4:s:47:GLN:O	1.98	0.46
1:G:302:VAL:O	1:G:361:THR:HG22	2.16	0.46
1:G:556:VAL:HG11	1:G:565:PRO:CD	2.45	0.46
1:G:610:THR:HA	1:G:613:ALA:HB3	1.96	0.46
1:A:125:ASP:O	1:A:1098:GLY:HA3	2.15	0.46
1:A:266:HIS:HE1	1:A:302:VAL:HG23	1.80	0.46
1:A:726:MET:HE1	1:A:814:TYR:HB2	1.98	0.46
1:A:834:ARG:HG2	4:h:94:LEU:CB	2.37	0.46
1:A:1082:ARG:HG2	1:A:1091:PHE:CE1	2.50	0.46
1:A:1340:PRO:HD2	1:F:413:MET:HG2	1.98	0.46
1:A:1340:PRO:O	1:A:1344:ARG:HG3	2.15	0.46
1:B:290:GLN:NE2	1:B:290:GLN:C	2.73	0.46
1:B:626:VAL:HG23	1:B:627:PHE:CD1	2.51	0.46
1:C:416:PHE:CE2	1:D:1341:ALA:HB2	2.50	0.46
1:C:621:ARG:HH22	1:D:698:GLU:CD	2.24	0.46
1:C:626:VAL:CG1	1:C:878:MET:HG3	2.46	0.46
1:C:739:CYS:SG	1:C:783:LEU:HB3	2.55	0.46
1:C:801:ARG:HG3	1:C:805:TRP:CD1	2.51	0.46
1:C:1232:SER:HG	1:D:1174:ARG:NH1	2.12	0.46
1:D:12:ARG:HB2	1:L:96:GLN:NE2	2.31	0.46
1:D:93:GLY:O	1:D:124:ILE:HG13	2.15	0.46
1:D:297:ASP:C	1:D:298:THR:CG2	2.83	0.46
1:D:470:ASP:OD1	1:D:471:ALA:N	2.49	0.46
1:D:918:ALA:HA	1:D:1033:PRO:HD2	1.98	0.46
1:D:968:ASP:O	1:D:972:ASN:ND2	2.49	0.46
1:D:1008:GLN:HE21	1:D:1012:GLU:HB2	1.79	0.46
1:E:34:ARG:HD3	1:H:1288:CYS:SG	2.56	0.46
1:E:50:TYR:OH	1:I:161:ALA:HA	2.16	0.46
1:E:466:LEU:HD12	1:E:544:HIS:HE2	1.81	0.46
1:E:838:THR:HG23	4:l:94:LEU:HA	1.97	0.46
1:F:424:VAL:HG13	1:F:425:PRO:HD2	1.97	0.46
1:F:805:TRP:CE2	1:F:809:HIS:CE1	3.03	0.46
1:F:1274:PHE:CD1	1:F:1274:PHE:C	2.94	0.46
1:H:199:LEU:HB2	1:H:200:PRO:HD3	1.98	0.46
1:H:420:ALA:HA	1:I:424:VAL:HG11	1.96	0.46
1:H:758:ALA:CB	1:H:781:GLY:N	2.78	0.46
1:H:950:GLN:O	1:H:953:GLU:HG3	2.15	0.46
1:H:1070:SER:HB2	1:H:1107:THR:HG21	1.98	0.46
1:I:863:HIS:CE1	1:I:865:LEU:HB2	2.50	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:1113:ALA:C	1:I:1114:THR:CG2	2.89	0.46
1:J:406:LEU:HD23	1:J:406:LEU:HA	1.68	0.46
1:J:620:ASP:OD2	1:J:655:TYR:OH	2.20	0.46
1:J:914:PRO:C	1:J:915:ASP:O	2.51	0.46
1:J:1224:ALA:HA	1:J:1228:ASP:HB2	1.97	0.46
1:K:831:ARG:HG3	1:K:953:GLU:O	2.16	0.46
1:K:883:ARG:HE	1:L:681:ASP:CB	2.29	0.46
1:K:1221:ASP:OD1	1:K:1222:VAL:N	2.46	0.46
1:L:477:ASN:HD21	1:L:570:ALA:HB1	1.80	0.46
1:M:125:ASP:HB2	1:M:1099:ASN:OD1	2.16	0.46
1:M:314:ALA:HB3	1:M:329:LEU:HD22	1.98	0.46
1:M:1166:PHE:CZ	2:c:284:GLN:HB3	2.51	0.46
1:N:348:ARG:HH21	1:O:170:GLN:NE2	2.14	0.46
1:N:663:ALA:N	1:N:690:TYR:OH	2.47	0.46
1:N:1059:VAL:HB	1:N:1117:ASN:OD1	2.16	0.46
1:O:318:THR:O	1:O:322:MET:HB2	2.15	0.46
1:O:321:VAL:O	1:P:12:ARG:CD	2.49	0.46
1:O:403:VAL:C	1:O:404:LEU:HD12	2.41	0.46
1:O:656:TRP:HZ2	1:O:685:GLU:HG2	1.81	0.46
1:O:755:ARG:HA	1:O:761:HIS:O	2.15	0.46
1:P:293:LEU:HD11	1:P:377:LEU:HD22	1.98	0.46
1:P:544:HIS:CD2	1:P:547:PHE:HD2	2.33	0.46
2:Q:60:THR:HG22	2:Q:119:PRO:HG2	1.96	0.46
2:Q:119:PRO:HG3	2:Q:138:ARG:HH22	1.79	0.46
2:R:129:ARG:HD2	2:R:129:ARG:HA	1.70	0.46
2:T:12:ILE:HD11	2:T:83:ILE:HG13	1.98	0.46
2:T:63:LEU:O	2:T:66:ALA:N	2.48	0.46
2:T:189:VAL:HG13	2:T:191:ASP:H	1.81	0.46
2:U:159:GLY:HA3	2:U:193:GLN:NE2	2.30	0.46
2:U:295:VAL:HG13	2:U:314:VAL:CG1	2.45	0.46
3:V:33:LEU:HA	3:V:36:VAL:HG11	1.98	0.46
3:V:39:PRO:C	3:V:41:ILE:N	2.71	0.46
3:V:275:HIS:CD2	3:V:280:GLY:C	2.93	0.46
3:V:428:MET:O	3:V:430:ASP:N	2.40	0.46
3:Y:121:GLN:HB3	3:Y:215:TYR:CD2	2.50	0.46
3:Y:161:TRP:O	3:Y:164:LEU:HB3	2.16	0.46
3:Y:279:PRO:CB	3:Y:285:ALA:N	2.72	0.46
3:Y:434:ARG:NH2	3:Y:434:ARG:HG3	2.28	0.46
2:a:113:PRO:HG3	2:a:318:PRO:HB3	1.98	0.46
3:b:122:PRO:CB	3:b:254:TRP:CB	2.94	0.46
2:c:276:VAL:HG11	2:d:154:ARG:NE	2.31	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:c:289:LEU:HD23	2:c:289:LEU:HA	1.75	0.46
2:d:193:GLN:HG2	2:d:198:VAL:HG21	1.97	0.46
3:e:198:TYR:C	3:e:198:TYR:HD1	2.22	0.46
4:f:93:GLY:C	4:f:95:LYS:N	2.74	0.46
1:G:521:VAL:CG2	1:G:522:ALA:N	2.72	0.46
1:G:556:VAL:HG11	1:G:565:PRO:HD2	1.98	0.46
1:G:740:ASP:OD2	1:G:801:ARG:CB	2.64	0.46
1:G:1026:ALA:HA	1:G:1029:PHE:HE2	1.81	0.46
1:A:135:LEU:HD12	1:A:135:LEU:HA	1.71	0.46
1:A:463:HIS:C	1:A:465:SER:H	2.23	0.46
1:A:828:ALA:HB1	1:A:956:TYR:O	2.15	0.46
1:A:890:ALA:O	1:A:893:THR:OG1	2.30	0.46
1:A:1074:PHE:O	1:A:1097:ARG:HB2	2.15	0.46
1:B:842:MET:HG2	4:h:61:LEU:CD2	2.39	0.46
1:B:847:ILE:HG21	4:h:70:ASN:O	2.14	0.46
1:C:268:ASP:O	1:C:301:ASP:HA	2.15	0.46
1:C:501:MET:HE2	1:C:958:LEU:CD1	2.45	0.46
1:D:168:ASN:O	1:D:172:VAL:HG22	2.16	0.46
1:D:461:VAL:CG1	1:D:1036:LEU:HD23	2.43	0.46
1:D:1077:GLN:NE2	1:I:149:ASP:OD1	2.48	0.46
1:E:106:ARG:HH21	1:F:390:VAL:HG22	1.80	0.46
1:E:1206:ARG:NH1	1:E:1247:SER:O	2.49	0.46
1:F:639:HIS:HD2	1:F:900:ASN:ND2	2.13	0.46
1:H:232:PHE:CE1	1:H:1115:VAL:HB	2.51	0.46
1:H:264:LEU:HD23	1:H:266:HIS:HB2	1.98	0.46
1:H:492:ALA:O	1:H:993:ALA:HA	2.16	0.46
1:I:116:VAL:HG23	1:I:116:VAL:O	2.15	0.46
1:I:535:ASP:C	1:I:537:ALA:N	2.73	0.46
1:I:840:GLN:CB	4:n:61:LEU:CD1	2.92	0.46
1:I:961:HIS:HE2	1:I:1002:ILE:HB	1.80	0.46
1:I:1013:SER:OG	1:I:1020:LEU:HD22	2.15	0.46
1:J:417:ALA:HB2	1:J:1358:PHE:CZ	2.50	0.46
1:J:429:HIS:HD2	1:J:430:PRO:HD2	1.81	0.46
1:J:501:MET:CE	1:J:958:LEU:HD11	2.45	0.46
1:J:558:LEU:HD21	1:J:999:PHE:CE2	2.51	0.46
1:J:827:THR:OG1	1:J:958:LEU:O	2.23	0.46
1:J:920:THR:C	1:J:1139:LEU:HG	2.41	0.46
1:J:1241:THR:CG2	1:J:1247:SER:OG	2.63	0.46
1:J:1335:THR:HA	1:J:1363:ILE:O	2.16	0.46
1:K:836:TYR:CZ	1:K:901:MET:HB2	2.51	0.46
1:L:486:PRO:HG2	1:L:509:TRP:CH2	2.51	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:26:THR:O	1:M:27:ILE:HG23	2.15	0.46
1:M:541:LEU:HD23	1:M:541:LEU:HA	1.58	0.46
1:M:656:TRP:O	1:M:660:ARG:HD3	2.16	0.46
1:M:1258:ASN:OD1	1:M:1278:THR:HA	2.16	0.46
1:N:248:LEU:HD21	1:N:293:LEU:CD1	2.46	0.46
1:N:403:VAL:C	1:N:404:LEU:HD12	2.41	0.46
1:N:494:PRO:HB2	1:N:757:ASP:CB	2.46	0.46
1:O:150:GLY:HA3	3:b:85:GLN:HE22	1.80	0.46
1:O:369:ALA:HA	1:O:373:ARG:O	2.16	0.46
1:O:548:ASP:O	1:O:573:ALA:HA	2.15	0.46
1:O:752:ARG:HD2	1:O:927:ARG:NH2	2.29	0.46
1:O:1161:GLN:HG3	1:O:1162:PRO:HD2	1.98	0.46
1:P:268:ASP:HA	1:P:272:ARG:O	2.15	0.46
1:P:268:ASP:O	1:P:301:ASP:HB2	2.16	0.46
1:P:318:THR:HG22	1:P:324:LYS:O	2.16	0.46
1:P:668:TYR:HD2	1:P:809:HIS:CE1	2.34	0.46
2:Q:189:VAL:HG13	2:Q:191:ASP:H	1.81	0.46
2:Q:218:THR:OG1	2:R:246:VAL:CG1	2.64	0.46
2:R:195:LEU:HD13	2:R:195:LEU:HA	1.86	0.46
2:R:295:VAL:CG1	2:R:314:VAL:CG1	2.94	0.46
3:S:302:LEU:H	3:S:302:LEU:CD1	2.13	0.46
2:T:33:PHE:CZ	2:T:67:TYR:HD2	2.33	0.46
2:T:218:THR:OG1	2:U:246:VAL:CG1	2.64	0.46
3:V:262:SER:O	3:V:262:SER:OG	2.32	0.46
2:W:9:ASP:CB	2:W:82:ARG:HH21	2.29	0.46
2:X:17:SER:N	2:X:132:SER:OG	2.33	0.46
2:Z:12:ILE:HD11	2:Z:83:ILE:HG13	1.98	0.46
2:Z:60:THR:HG22	2:Z:119:PRO:HG2	1.96	0.46
2:a:176:LEU:HD23	2:a:176:LEU:HA	1.79	0.46
2:a:317:TYR:CD1	2:a:318:PRO:HD2	2.51	0.46
3:b:163:GLN:N	3:b:163:GLN:CD	2.71	0.46
2:c:189:VAL:HG13	2:c:191:ASP:H	1.81	0.46
4:f:44:HIS:HD2	4:f:47:GLN:O	1.98	0.46
4:g:41:PRO:CD	4:g:42:HIS:N	2.79	0.46
4:m:21:GLY:O	4:m:23:ARG:N	2.49	0.46
4:m:46:THR:CG2	4:m:50:VAL:HG11	2.18	0.46
4:n:74:ALA:HB1	4:n:75:PRO:CD	2.46	0.46
4:n:93:GLY:C	4:n:95:LYS:N	2.74	0.46
4:o:20:LEU:HD13	4:o:21:GLY:O	2.16	0.46
4:s:14:ALA:O	4:s:15:ASP:CB	2.63	0.46
4:s:41:PRO:CD	4:s:42:HIS:N	2.79	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:263:ARG:CZ	1:G:264:LEU:HD11	2.46	0.46
1:G:452:LEU:HD23	1:G:456:ASN:HD22	1.81	0.46
1:G:488:GLY:HA2	1:G:996:ALA:HB1	1.98	0.46
1:G:839:LEU:O	1:G:894:LEU:HD21	2.16	0.46
1:G:1313:ARG:HG2	1:G:1314:PRO:O	2.15	0.46
1:A:71:LEU:CD1	1:A:306:TYR:HE1	2.28	0.46
1:A:103:LEU:O	1:B:178:ARG:HD2	2.15	0.46
1:A:405:PRO:O	1:A:440:LEU:HD22	2.16	0.46
1:B:1210:ALA:HB3	1:B:1329:GLN:HE21	1.79	0.46
1:C:750:ARG:HA	1:C:752:ARG:NH2	2.30	0.46
1:D:1125:LEU:HD12	1:D:1126:PRO:HD2	1.97	0.46
1:D:1198:TYR:CD2	1:D:1198:TYR:O	2.69	0.46
1:E:1223:ILE:O	1:E:1223:ILE:HG22	2.16	0.46
1:E:1291:ARG:O	1:E:1293:ILE:N	2.49	0.46
1:F:473:VAL:O	1:F:477:ASN:HB2	2.15	0.46
1:F:770:ASN:N	1:F:773:THR:HB	2.25	0.46
1:F:815:VAL:HG12	1:F:1021:THR:HG23	1.97	0.46
1:H:487:TYR:HD2	1:H:520:TRP:HH2	1.61	0.46
1:H:813:TYR:O	1:H:818:PRO:HD3	2.15	0.46
1:H:854:PRO:HG2	1:H:862:ALA:C	2.41	0.46
1:J:68:VAL:HG21	1:J:384:ILE:HG22	1.98	0.46
1:J:252:THR:HG22	1:J:373:ARG:HD2	1.97	0.46
1:J:305:THR:HG22	1:J:306:TYR:N	2.30	0.46
1:J:335:HIS:O	1:J:339:MET:N	2.47	0.46
1:J:470:ASP:HA	1:J:473:VAL:HG12	1.97	0.46
1:J:512:ARG:HG3	1:J:513:LEU:N	2.30	0.46
1:J:598:GLU:O	1:J:601:VAL:HG22	2.16	0.46
1:J:729:PRO:O	1:J:731:LEU:N	2.48	0.46
1:J:968:ASP:O	1:J:972:ASN:ND2	2.49	0.46
1:J:1369:LEU:HD13	1:J:1369:LEU:HA	1.65	0.46
1:K:55:ASP:HB3	1:P:91:ASN:HB3	1.96	0.46
1:K:143:LEU:C	1:K:145:GLY:N	2.74	0.46
1:K:579:ASN:HD22	1:K:595:ARG:HH22	1.61	0.46
1:K:1364:TYR:CG	1:K:1365:ASP:N	2.84	0.46
1:L:642:CYS:HA	1:L:645:ALA:HB2	1.96	0.46
1:M:381:GLU:HA	1:M:385:TYR:HB2	1.98	0.46
1:N:443:TRP:NE1	1:N:449:VAL:HG22	2.31	0.46
1:N:738:ASP:HB3	1:N:787:THR:OG1	2.15	0.46
1:N:1042:THR:HG22	1:N:1042:THR:O	2.15	0.46
1:N:1225:LEU:HD23	1:N:1225:LEU:C	2.40	0.46
1:O:48:SER:HA	3:V:278:HIS:HA	1.99	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:841:ASN:HB2	4:s:57:GLN:NE2	2.30	0.46
1:P:244:ILE:O	1:P:248:LEU:HD13	2.16	0.46
1:P:1229:HIS:CD2	1:P:1241:THR:HG23	2.51	0.46
2:Q:289:LEU:HD23	2:Q:289:LEU:HA	1.75	0.46
2:R:124:GLN:O	2:R:126:THR:HG23	2.16	0.46
2:U:32:VAL:HG23	2:U:75:ILE:HD11	1.97	0.46
2:W:153:ALA:C	2:W:156:VAL:HG12	2.41	0.46
2:X:108:LEU:O	2:X:112:ASP:CG	2.45	0.46
2:X:162:ASP:O	2:X:165:PRO:HB3	2.16	0.46
2:X:295:VAL:CG1	2:X:314:VAL:HG11	2.45	0.46
3:Y:211:ILE:HG12	3:Y:215:TYR:CD1	2.50	0.46
2:Z:118:PRO:HG3	2:Z:138:ARG:HB3	1.98	0.46
2:Z:143:LEU:HD13	2:Z:147:LEU:CD2	2.46	0.46
3:b:131:LEU:HD11	3:b:251:LEU:HD12	1.97	0.46
2:d:298:CYS:HB3	2:d:315:ILE:HG23	1.98	0.46
4:h:44:HIS:HD2	4:h:47:GLN:O	1.98	0.46
4:j:74:ALA:HB1	4:j:75:PRO:CD	2.46	0.46
4:o:74:ALA:HB1	4:o:75:PRO:CD	2.45	0.46
4:q:74:ALA:HB1	4:q:75:PRO:CD	2.46	0.46
1:G:106:ARG:HG3	1:G:107:ASP:H	1.80	0.45
1:G:283:ALA:O	1:G:287:ARG:HG3	2.16	0.45
1:G:841:ASN:O	1:G:875:VAL:HG12	2.16	0.45
1:G:1076:GLY:HA3	1:G:1096:PRO:HG2	1.98	0.45
1:G:1295:GLU:C	1:G:1298:SER:HG	2.21	0.45
1:A:311:LEU:H	1:A:311:LEU:CD2	2.22	0.45
1:A:410:ASN:ND2	1:A:1358:PHE:O	2.46	0.45
1:A:626:VAL:CG1	1:A:878:MET:HG3	2.46	0.45
1:B:1125:LEU:HD12	1:B:1126:PRO:HD2	1.97	0.45
1:B:1224:ALA:O	1:B:1226:MET:N	2.49	0.45
1:C:198:LEU:HD22	1:C:254:ALA:HB1	1.98	0.45
1:C:1050:PHE:CD1	1:C:1187:PHE:HB3	2.51	0.45
1:C:1274:PHE:O	1:C:1278:THR:OG1	2.34	0.45
1:D:274:VAL:HG11	1:D:376:PHE:CD2	2.50	0.45
1:D:331:ASP:OD1	1:D:334:ARG:NH2	2.36	0.45
1:D:606:MET:HG3	1:D:696:HIS:CD2	2.51	0.45
1:D:836:TYR:CZ	1:D:901:MET:HB2	2.52	0.45
1:D:1314:PRO:HB2	1:D:1315:PRO:HD2	1.97	0.45
1:E:607:ALA:O	1:E:610:THR:HG22	2.16	0.45
1:E:817:VAL:HB	1:E:818:PRO:HD3	1.98	0.45
1:E:842:MET:CE	4:k:61:LEU:CD2	2.92	0.45
1:E:976:PHE:CE2	1:E:981:ARG:HD2	2.50	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:74:GLY:O	1:F:77:VAL:CG1	2.64	0.45
1:F:437:PRO:HB3	1:F:1338:SER:HB2	1.99	0.45
1:F:755:ARG:N	1:F:909:LEU:O	2.49	0.45
1:F:1013:SER:OG	1:F:1020:LEU:HD22	2.15	0.45
1:H:70:PHE:O	1:H:70:PHE:CG	2.69	0.45
1:H:1083:HIS:CG	1:H:1084:GLU:N	2.84	0.45
1:I:12:ARG:NH2	1:I:12:ARG:HG3	2.30	0.45
1:I:814:TYR:O	1:I:818:PRO:CG	2.64	0.45
1:J:406:LEU:HD12	1:J:1187:PHE:CE1	2.40	0.45
1:J:811:ILE:O	1:J:815:VAL:HB	2.17	0.45
1:J:871:VAL:HG12	1:J:872:ALA:H	1.81	0.45
1:J:1256:LEU:O	1:J:1263:LEU:HB3	2.16	0.45
1:K:68:VAL:HG21	1:K:384:ILE:HG22	1.97	0.45
1:K:80:VAL:HG23	1:K:1069:ALA:HB1	1.98	0.45
1:K:429:HIS:HB3	1:K:430:PRO:HD2	1.97	0.45
1:K:714:LEU:HD13	1:K:719:GLN:HE22	1.81	0.45
1:K:1173:ARG:HH22	1:P:1218:LYS:HD3	1.80	0.45
1:M:78:ALA:O	1:M:79:CYS:HB3	2.15	0.45
1:M:842:MET:SD	4:f:61:LEU:CD2	3.03	0.45
1:N:233:PHE:CE2	1:N:244:ILE:HD13	2.52	0.45
1:N:1155:ASN:CB	1:N:1158:GLY:H	2.30	0.45
1:O:740:ASP:H	1:O:785:HIS:CE1	2.27	0.45
1:O:946:ASP:HA	1:P:677:TYR:OH	2.15	0.45
1:O:1029:PHE:HB3	1:O:1039:GLN:NE2	2.31	0.45
1:P:950:GLN:HB3	1:P:953:GLU:CG	2.46	0.45
1:P:1034:VAL:O	1:P:1038:HIS:CD2	2.68	0.45
1:P:1095:GLN:NE2	1:P:1097:ARG:NE	2.55	0.45
3:S:313:VAL:HG22	3:S:422:PHE:CB	2.46	0.45
3:S:347:PHE:CD2	3:S:419:TYR:CE2	3.00	0.45
3:V:41:ILE:HD13	3:V:41:ILE:N	2.22	0.45
3:V:121:GLN:HB3	3:V:215:TYR:CD2	2.50	0.45
2:W:218:THR:OG1	2:X:246:VAL:CG1	2.64	0.45
2:X:160:ILE:HG12	2:X:202:LEU:HD12	1.97	0.45
2:X:193:GLN:HG2	2:X:198:VAL:HG21	1.97	0.45
2:X:295:VAL:CG1	2:X:314:VAL:CG1	2.94	0.45
2:a:6:PHE:O	2:a:6:PHE:CD1	2.69	0.45
2:a:31:VAL:C	2:a:73:ALA:O	2.59	0.45
3:b:191:VAL:CB	3:b:291:CYS:SG	3.04	0.45
3:b:275:HIS:HD2	3:b:280:GLY:CA	2.29	0.45
3:b:418:THR:O	3:b:419:TYR:CG	2.69	0.45
2:c:195:LEU:O	2:c:199:ASN:ND2	2.46	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:d:113:PRO:HG3	2:d:318:PRO:HB3	1.98	0.45
2:d:295:VAL:CG1	2:d:314:VAL:CG1	2.94	0.45
4:j:41:PRO:CD	4:j:42:HIS:N	2.79	0.45
4:q:27:LEU:HD12	4:q:27:LEU:HA	1.92	0.45
4:s:74:ALA:HB1	4:s:75:PRO:CD	2.46	0.45
1:G:71:LEU:HD13	1:G:303:PRO:HB2	1.98	0.45
1:G:277:VAL:O	1:G:376:PHE:O	2.34	0.45
1:G:541:LEU:CD2	1:G:571:ILE:HD11	2.46	0.45
1:G:606:MET:CE	1:G:820:PHE:HZ	2.29	0.45
1:G:827:THR:OG1	1:G:959:PRO:HA	2.15	0.45
1:A:163:GLN:CD	1:F:347:ASN:O	2.59	0.45
1:A:481:VAL:O	1:A:569:GLY:CA	2.63	0.45
1:A:784:LEU:HD11	1:A:902:ALA:HA	1.98	0.45
1:A:831:ARG:O	1:A:835:VAL:HG23	2.16	0.45
1:A:997:ASN:O	1:A:1003:ARG:HG2	2.16	0.45
1:C:127:ARG:CD	1:C:183:GLN:HE22	2.29	0.45
1:C:195:LEU:HD22	1:C:251:LEU:HD13	1.98	0.45
1:C:1270:LEU:HD12	1:C:1271:SER:H	1.81	0.45
1:D:837:ALA:CA	4:j:54:LEU:CD2	2.65	0.45
1:E:1082:ARG:NH2	1:E:1084:GLU:OE2	2.39	0.45
1:E:1155:ASN:HB2	1:E:1158:GLY:H	1.81	0.45
1:F:576:ARG:HA	1:F:1003:ARG:NH1	2.30	0.45
1:F:1115:VAL:CB	1:F:1374:LEU:HD21	2.46	0.45
1:H:497:PRO:HG2	1:H:500:ASP:OD1	2.16	0.45
1:I:742:LEU:HD12	1:I:754:CYS:SG	2.56	0.45
1:J:13:TYR:O	1:J:16:ALA:HB3	2.15	0.45
1:J:558:LEU:CD2	1:J:999:PHE:CE2	3.00	0.45
1:J:652:ILE:HD11	1:J:674:ILE:HG12	1.96	0.45
1:J:731:LEU:HD11	1:J:814:TYR:OH	2.17	0.45
1:J:857:PRO:HB3	1:J:863:HIS:CE1	2.51	0.45
1:J:871:VAL:HG12	1:J:872:ALA:N	2.30	0.45
1:J:1009:HIS:HE1	1:J:1023:ALA:HB1	1.82	0.45
1:J:1054:ARG:CZ	1:J:1123:GLY:HA2	2.41	0.45
1:J:1206:ARG:HG3	1:J:1246:ALA:HB3	1.97	0.45
1:K:375:VAL:HG12	1:K:376:PHE:O	2.16	0.45
1:K:642:CYS:O	4:p:87:TRP:CB	2.64	0.45
1:K:1049:GLY:O	1:K:1190:THR:N	2.44	0.45
1:L:714:LEU:HB2	1:L:722:LEU:HD11	1.97	0.45
1:L:788:GLN:HB3	1:L:800:HIS:CE1	2.50	0.45
1:L:819:ALA:O	1:L:820:PHE:CD2	2.70	0.45
1:L:905:THR:HG22	1:L:956:TYR:OH	2.16	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:917:GLY:HA2	1:L:1138:LEU:HD13	1.98	0.45
1:M:105:ALA:HB1	1:N:129:LEU:HB3	1.98	0.45
1:M:415:ARG:HH22	1:M:590:ALA:CB	2.16	0.45
1:M:817:VAL:N	1:M:818:PRO:HD2	2.31	0.45
1:N:491:VAL:HA	1:N:992:PRO:HB2	1.97	0.45
1:N:904:ARG:HH12	1:N:906:THR:HG23	1.81	0.45
1:O:646:ARG:CZ	4:s:78:MET:CB	2.94	0.45
1:O:752:ARG:CG	1:O:927:ARG:HD2	2.16	0.45
1:O:817:VAL:CG1	1:O:964:PHE:HE1	2.29	0.45
1:O:1080:VAL:HG22	1:O:1093:LEU:CD2	2.46	0.45
1:O:1266:ALA:H	2:a:54:GLY:HA3	1.77	0.45
1:P:535:ASP:C	1:P:537:ALA:N	2.73	0.45
1:P:842:MET:SD	4:t:61:LEU:CD1	3.04	0.45
1:P:968:ASP:N	1:P:968:ASP:OD1	2.40	0.45
3:S:127:ALA:CB	3:S:286:VAL:HA	2.44	0.45
2:T:276:VAL:HG11	2:U:154:ARG:NE	2.31	0.45
3:V:122:PRO:CB	3:V:254:TRP:CB	2.94	0.45
2:W:63:LEU:O	2:W:66:ALA:N	2.49	0.45
2:X:103:THR:O	2:X:141:VAL:HG13	2.17	0.45
2:X:161:ARG:NH1	2:X:173:LEU:CB	2.65	0.45
3:Y:198:TYR:HD1	3:Y:199:ASP:N	2.14	0.45
3:Y:240:PHE:HZ	3:Y:418:THR:HG21	1.81	0.45
2:Z:276:VAL:HG11	2:a:154:ARG:NE	2.31	0.45
2:a:295:VAL:CG1	2:a:314:VAL:HG11	2.45	0.45
2:d:260:MET:O	2:d:261:LEU:C	2.56	0.45
3:e:241:PRO:HB2	3:e:314:PHE:CE2	2.51	0.45
3:e:245:MET:HE2	3:e:245:MET:HB2	1.60	0.45
3:e:435:CYS:HB2	3:e:451:ILE:HB	1.98	0.45
4:i:22:MET:O	4:i:25:LEU:CB	2.57	0.45
4:k:3:ALA:C	4:k:40:TYR:CB	2.74	0.45
4:t:44:HIS:HD2	4:t:47:GLN:O	1.98	0.45
1:G:423:LEU:CD1	1:G:433:ARG:CB	2.95	0.45
1:G:599:LEU:CD1	1:G:1026:ALA:HB2	2.46	0.45
1:A:119:TYR:OH	1:B:164:GLN:NE2	2.49	0.45
1:A:289:LEU:HD13	1:A:293:LEU:O	2.16	0.45
1:B:96:GLN:O	1:B:96:GLN:HG3	2.15	0.45
1:B:375:VAL:HG12	1:B:376:PHE:O	2.16	0.45
1:C:45:ASP:CG	1:C:50:TYR:HH	2.23	0.45
1:C:305:THR:CG2	1:C:306:TYR:H	2.28	0.45
1:C:756:ILE:CD1	1:C:757:ASP:N	2.73	0.45
1:D:37:ASP:OD2	1:L:94:ARG:NH1	2.38	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:458:VAL:HG23	1:D:1037:TYR:HD1	1.81	0.45
1:D:626:VAL:CG1	1:D:878:MET:HG3	2.46	0.45
1:D:815:VAL:HG12	1:D:1021:THR:HG23	1.97	0.45
1:D:837:ALA:CB	4:j:54:LEU:HD21	2.43	0.45
1:D:1321:VAL:HG22	1:D:1322:GLU:N	2.31	0.45
1:E:12:ARG:HD3	1:E:12:ARG:HA	1.70	0.45
1:E:134:SER:CB	1:E:1090:ASN:OD1	2.64	0.45
1:E:409:PHE:CE2	1:E:415:ARG:NH2	2.85	0.45
1:E:816:LEU:O	1:E:819:ALA:N	2.49	0.45
1:E:841:ASN:CG	4:k:57:GLN:NE2	2.74	0.45
1:F:558:LEU:HD21	1:F:999:PHE:CE1	2.52	0.45
1:F:813:TYR:O	1:F:818:PRO:HD3	2.16	0.45
1:F:815:VAL:HG22	1:F:1028:TYR:HE2	1.80	0.45
1:F:866:HIS:CD2	1:F:868:ALA:H	2.35	0.45
1:F:905:THR:CG2	1:F:956:TYR:OH	2.64	0.45
1:H:104:ILE:HB	1:I:390:VAL:HG21	1.98	0.45
1:H:205:LEU:CD2	1:H:1290:GLU:OE2	2.62	0.45
1:H:957:VAL:HG12	1:H:959:PRO:HD3	1.98	0.45
1:I:70:PHE:O	1:I:70:PHE:CD2	2.70	0.45
1:I:125:ASP:HB2	1:I:1099:ASN:OD1	2.17	0.45
1:I:266:HIS:O	1:I:266:HIS:CG	2.67	0.45
1:I:305:THR:HG23	1:I:306:TYR:H	1.82	0.45
1:I:444:GLY:CA	1:I:450:LEU:HD11	2.46	0.45
1:I:467:MET:O	1:I:922:SER:OG	2.33	0.45
1:I:946:ASP:HA	1:J:676:THR:HG21	1.97	0.45
1:J:329:LEU:O	1:J:329:LEU:HG	2.16	0.45
1:J:404:LEU:HD13	1:J:1052:VAL:CG1	2.46	0.45
1:J:618:PHE:O	1:J:941:ALA:HB2	2.15	0.45
1:J:1216:GLY:O	1:J:1217:ASP:CB	2.62	0.45
1:J:1241:THR:HB	1:J:1242:ALA:H	1.64	0.45
1:J:1333:PRO:HD2	1:J:1366:ALA:O	2.16	0.45
1:K:224:LYS:HB3	1:K:1328:PHE:CD1	2.51	0.45
1:K:280:THR:CG2	1:K:284:ILE:HG21	2.47	0.45
1:K:293:LEU:HD13	1:K:368:VAL:HB	1.98	0.45
1:K:443:TRP:C	1:K:444:GLY:O	2.53	0.45
1:K:982:ASP:OD2	1:L:718:ALA:HB1	2.17	0.45
1:M:205:LEU:HD21	1:M:1290:GLU:OE2	2.17	0.45
1:M:473:VAL:O	1:M:477:ASN:HB2	2.16	0.45
1:M:797:ASP:OD1	1:M:798:ARG:N	2.48	0.45
1:N:71:LEU:HD23	1:N:71:LEU:HA	1.74	0.45
1:N:629:LEU:HB3	1:N:839:LEU:HD21	1.97	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:804:ASP:HB3	1:N:808:HIS:HE1	1.80	0.45
1:N:840:GLN:CD	4:r:58:ALA:CA	2.90	0.45
1:N:1066:SER:OG	1:N:1067:GLU:N	2.48	0.45
1:O:1052:VAL:HA	1:O:1186:GLU:O	2.16	0.45
1:O:1065:PHE:O	1:O:1108:ALA:HA	2.17	0.45
1:P:759:GLY:CA	1:P:779:ASN:C	2.88	0.45
2:Q:21:ALA:O	2:Q:25:GLN:HG2	2.15	0.45
2:R:97:THR:HG21	2:R:300:PHE:CZ	2.52	0.45
2:R:317:TYR:CD1	2:R:318:PRO:HD2	2.52	0.45
3:S:191:VAL:HG22	3:S:295:ASP:OD2	2.16	0.45
3:V:143:LEU:O	3:V:145:ARG:N	2.49	0.45
2:W:276:VAL:HG11	2:X:154:ARG:NE	2.31	0.45
2:X:298:CYS:HB3	2:X:315:ILE:HG23	1.98	0.45
2:X:317:TYR:CD1	2:X:318:PRO:HD2	2.51	0.45
2:Z:179:LEU:O	2:Z:186:LEU:HB3	2.17	0.45
2:Z:180:TYR:HD2	2:Z:185:ARG:CB	2.30	0.45
2:a:30:ARG:O	2:a:75:ILE:HD12	2.17	0.45
2:c:143:LEU:HD13	2:c:147:LEU:CD2	2.46	0.45
2:d:44:ALA:CB	2:d:135:LEU:HD11	2.45	0.45
4:l:103:VAL:O	4:l:104:ARG:C	2.59	0.45
4:m:22:MET:O	4:m:25:LEU:CB	2.57	0.45
4:r:41:PRO:CD	4:r:42:HIS:N	2.79	0.45
1:G:405:PRO:O	1:G:1361:TYR:OH	2.35	0.45
1:G:1161:GLN:CG	2:R:180:TYR:HE1	2.23	0.45
1:G:1278:THR:OG1	1:G:1279:ALA:N	2.47	0.45
1:A:448:GLN:H	1:F:1201:ARG:CD	2.25	0.45
1:A:842:MET:HE1	1:A:894:LEU:HD23	1.97	0.45
1:B:303:PRO:HD3	1:B:360:THR:CA	2.47	0.45
1:B:1082:ARG:O	1:B:1084:GLU:N	2.48	0.45
1:B:1134:GLY:HA3	1:B:1263:LEU:HA	1.98	0.45
1:C:301:ASP:C	1:C:303:PRO:HD3	2.40	0.45
1:C:769:CYS:SG	1:C:774:ALA:HB2	2.56	0.45
1:E:91:ASN:HB3	1:F:55:ASP:OD1	2.17	0.45
1:F:231:SER:O	1:F:232:PHE:HB2	2.17	0.45
1:F:236:LYS:HG3	1:F:1372:LEU:CD2	2.47	0.45
1:F:756:ILE:HG22	1:F:761:HIS:O	2.17	0.45
1:F:842:MET:CG	4:l:61:LEU:CD2	2.93	0.45
1:H:104:ILE:HG23	1:I:179:GLY:HA2	1.99	0.45
1:H:841:ASN:CG	4:m:57:GLN:HE22	2.18	0.45
1:H:1026:ALA:HA	1:H:1029:PHE:HE2	1.82	0.45
1:H:1052:VAL:HA	1:H:1186:GLU:O	2.16	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:1082:ARG:HD2	1:H:1089:VAL:CG1	2.46	0.45
1:I:380:LEU:HD12	1:I:380:LEU:O	2.16	0.45
1:I:785:HIS:CD2	1:I:800:HIS:CD2	3.03	0.45
1:I:836:TYR:HD1	1:I:897:LEU:HD13	1.79	0.45
1:I:840:GLN:HA	1:I:842:MET:CE	2.47	0.45
1:I:1200:ARG:HH12	1:J:1344:ARG:HH21	1.65	0.45
1:I:1344:ARG:HA	1:I:1347:ARG:HH21	1.81	0.45
1:J:11:TYR:CE1	1:K:96:GLN:HG3	2.51	0.45
1:J:410:ASN:OD1	1:J:1361:TYR:HB3	2.17	0.45
1:J:497:PRO:HG2	1:J:504:ARG:HH22	1.81	0.45
1:J:595:ARG:HD2	1:J:1045:HIS:HB3	1.98	0.45
1:J:739:CYS:SG	1:J:783:LEU:HB3	2.56	0.45
1:J:786:ASN:C	1:J:787:THR:HG23	2.41	0.45
1:K:496:GLY:HA3	1:K:504:ARG:NH2	2.30	0.45
1:K:521:VAL:C	1:K:523:GLU:N	2.74	0.45
1:L:556:VAL:CG2	1:L:565:PRO:HG3	2.46	0.45
1:M:252:THR:HG22	1:M:373:ARG:HD3	1.98	0.45
1:M:521:VAL:O	1:M:521:VAL:HG23	2.16	0.45
1:M:598:GLU:O	1:M:601:VAL:HG22	2.16	0.45
1:M:633:ALA:HB1	1:M:897:LEU:HD21	1.97	0.45
1:M:646:ARG:NH2	4:f:78:MET:CB	2.80	0.45
1:M:739:CYS:N	1:M:785:HIS:ND1	2.59	0.45
1:N:97:PHE:O	1:N:120:MET:HE3	2.16	0.45
1:N:295:VAL:O	1:N:368:VAL:HG22	2.16	0.45
1:N:521:VAL:C	1:N:523:GLU:N	2.74	0.45
1:O:17:MET:C	1:O:19:PRO:HD3	2.41	0.45
1:O:67:LEU:HD11	1:O:170:GLN:HE21	1.80	0.45
1:O:263:ARG:O	1:O:265:THR:N	2.43	0.45
1:O:726:MET:HE2	1:O:1028:TYR:CD2	2.51	0.45
1:O:933:LEU:HG	1:O:960:VAL:CG1	2.46	0.45
1:O:976:PHE:HZ	1:O:984:ALA:HB2	1.81	0.45
1:P:103:LEU:HD13	1:P:115:PRO:HG3	1.98	0.45
1:P:444:GLY:CA	1:P:450:LEU:HD12	2.45	0.45
1:P:531:PHE:CE2	1:P:1194:THR:HG22	2.52	0.45
2:Q:33:PHE:CZ	2:Q:67:TYR:HD2	2.33	0.45
2:Q:63:LEU:O	2:Q:66:ALA:N	2.48	0.45
2:R:316:ARG:HG2	2:R:317:TYR:H	1.82	0.45
3:S:109:HIS:O	3:S:266:VAL:HG13	2.16	0.45
2:T:177:ASN:OD1	2:T:188:LEU:HB3	2.16	0.45
2:U:97:THR:HG21	2:U:300:PHE:CZ	2.51	0.45
2:X:159:GLY:HA2	2:X:193:GLN:HG2	1.99	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Y:122:PRO:CB	3:Y:254:TRP:CB	2.94	0.45
3:Y:141:PRO:CB	3:Y:144:ALA:HB2	2.43	0.45
2:Z:295:VAL:HG11	2:Z:314:VAL:HG11	1.76	0.45
3:b:269:GLY:O	3:b:457:TRP:HD1	1.97	0.45
2:c:119:PRO:HG3	2:c:138:ARG:HH22	1.79	0.45
2:d:317:TYR:CD1	2:d:318:PRO:HD2	2.51	0.45
3:e:191:VAL:HG22	3:e:295:ASP:OD2	2.16	0.45
3:e:316:TYR:HB2	3:e:419:TYR:HB2	1.98	0.45
4:g:7:HIS:NE2	4:g:44:HIS:ND1	2.63	0.45
4:h:74:ALA:HB1	4:h:75:PRO:CD	2.46	0.45
4:j:44:HIS:HD2	4:j:47:GLN:O	1.98	0.45
4:j:46:THR:CG2	4:j:50:VAL:HG11	2.18	0.45
4:q:21:GLY:C	4:q:23:ARG:N	2.69	0.45
4:t:9:PRO:CB	4:t:17:VAL:CB	2.94	0.45
1:G:94:ARG:HA	1:G:122:LYS:O	2.16	0.45
1:G:210:LEU:CD2	1:G:212:THR:HG21	2.41	0.45
1:G:285:LYS:O	1:G:289:LEU:N	2.46	0.45
1:G:533:GLN:H	1:G:534:PRO:HD2	1.67	0.45
1:G:578:VAL:HB	1:G:1027:GLY:O	2.16	0.45
1:G:641:PHE:HZ	1:G:678:LEU:HG	1.82	0.45
1:G:783:LEU:HD11	1:G:906:THR:HG21	1.99	0.45
1:G:915:ASP:O	1:G:919:ASN:N	2.40	0.45
1:A:280:THR:HG22	1:A:281:THR:N	2.31	0.45
1:A:482:GLU:HA	1:A:569:GLY:CA	2.46	0.45
1:A:544:HIS:CE1	1:A:1252:TYR:CD1	3.05	0.45
1:A:606:MET:H	1:A:1018:ASN:ND2	2.15	0.45
1:A:752:ARG:C	1:A:753:ASP:OD1	2.58	0.45
1:A:770:ASN:H	1:A:773:THR:HB	1.81	0.45
1:A:883:ARG:HD3	1:B:680:GLY:HA3	1.98	0.45
1:A:1286:HIS:HE1	1:A:1291:ARG:HB3	1.80	0.45
1:B:765:TYR:CD1	1:B:783:LEU:HB2	2.51	0.45
1:B:871:VAL:HG12	1:B:872:ALA:H	1.81	0.45
1:C:144:THR:HG23	1:C:146:GLU:CB	2.47	0.45
1:C:741:GLY:O	1:C:745:HIS:CD2	2.70	0.45
1:C:844:VAL:HG11	4:i:68:HIS:CB	2.46	0.45
1:D:97:PHE:CZ	1:D:122:LYS:HD3	2.51	0.45
1:D:193:PRO:HG2	1:D:198:LEU:HD12	1.98	0.45
1:D:767:ALA:C	1:D:786:ASN:HD22	2.24	0.45
1:E:182:ASP:OD1	1:E:385:TYR:OH	2.34	0.45
1:E:842:MET:SD	4:k:61:LEU:CD2	3.04	0.45
1:F:84:PHE:HD1	1:F:309:MET:O	1.99	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:582:LEU:HD12	1:F:587:CYS:HB3	1.92	0.45
1:F:606:MET:HB2	1:F:1018:ASN:HD21	1.81	0.45
1:F:895:GLN:OE1	4:l:62:THR:HA	2.16	0.45
1:H:724:HIS:CE1	1:H:1028:TYR:HB2	2.52	0.45
1:H:883:ARG:NH2	1:I:681:ASP:HB3	2.31	0.45
1:I:541:LEU:CD2	1:I:571:ILE:HD11	2.45	0.45
1:I:589:VAL:HG13	1:I:1009:HIS:CD2	2.52	0.45
1:I:700:LEU:O	1:I:1025:MET:HE2	2.17	0.45
1:I:837:ALA:CA	4:n:54:LEU:HD22	2.30	0.45
1:I:1201:ARG:H	1:I:1333:PRO:HG2	1.81	0.45
1:I:1259:GLY:HA3	1:I:1274:PHE:CE1	2.47	0.45
1:J:70:PHE:O	1:J:73:LEU:CB	2.64	0.45
1:J:300:ALA:HA	1:J:363:VAL:O	2.17	0.45
1:J:665:VAL:HG12	1:J:671:VAL:HG21	1.97	0.45
1:K:155:LEU:O	1:K:156:HIS:C	2.59	0.45
1:K:753:ASP:OD1	1:K:753:ASP:N	2.49	0.45
1:K:1131:LEU:HD23	1:K:1159:PRO:HG3	1.98	0.45
1:L:90:MET:HE3	1:L:93:GLY:CA	2.47	0.45
1:L:556:VAL:HG21	1:L:565:PRO:HG2	1.96	0.45
1:L:1076:GLY:HA3	1:L:1096:PRO:HG2	1.98	0.45
1:L:1155:ASN:HB2	1:L:1158:GLY:HA3	1.99	0.45
1:M:130:ASN:HD22	1:M:1094:THR:HB	1.81	0.45
1:N:80:VAL:HG22	1:N:264:LEU:CD2	2.46	0.45
1:N:461:VAL:HG13	1:N:1036:LEU:HD23	1.99	0.45
1:N:533:GLN:C	1:N:535:ASP:N	2.71	0.45
1:N:914:PRO:HG2	1:N:923:THR:HB	1.99	0.45
1:N:919:ASN:C	1:N:920:THR:HG1	2.02	0.45
1:O:24:LEU:O	1:O:25:SER:HB3	2.16	0.45
1:O:156:HIS:HE1	1:O:160:ARG:HE	1.62	0.45
1:P:269:THR:O	1:P:270:ARG:HG2	2.17	0.45
1:P:458:VAL:HG23	1:P:462:CYS:SG	2.57	0.45
1:P:656:TRP:CD2	1:P:686:CYS:HB3	2.51	0.45
1:P:840:GLN:HA	4:t:61:LEU:HD11	1.98	0.45
2:Q:12:ILE:HD11	2:Q:83:ILE:HG13	1.98	0.45
2:Q:143:LEU:HD13	2:Q:147:LEU:CD2	2.46	0.45
2:R:154:ARG:NH1	2:R:178:VAL:O	2.36	0.45
3:S:241:PRO:HB2	3:S:314:PHE:CE2	2.51	0.45
3:S:278:HIS:CB	3:S:279:PRO:HD2	2.41	0.45
3:V:108:TYR:OH	3:V:110:LEU:CD2	2.65	0.45
3:V:109:HIS:O	3:V:266:VAL:HG13	2.16	0.45
3:V:257:GLN:O	3:V:258:ASP:C	2.58	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:V:333:GLN:N	3:V:333:GLN:OE1	2.43	0.45
2:X:316:ARG:HG2	2:X:317:TYR:H	1.82	0.45
3:Y:141:PRO:CG	3:Y:157:LEU:C	2.88	0.45
3:Y:191:VAL:HG22	3:Y:295:ASP:OD2	2.16	0.45
3:b:197:ALA:C	3:b:324:LEU:HD22	2.36	0.45
2:c:12:ILE:HD11	2:c:83:ILE:HG13	1.98	0.45
2:c:104:SER:OG	2:c:105:PRO:HD3	2.16	0.45
2:c:118:PRO:HG3	2:c:138:ARG:HB3	1.98	0.45
2:c:295:VAL:HG11	2:c:314:VAL:HG11	1.79	0.45
4:f:41:PRO:CD	4:f:42:HIS:N	2.79	0.45
4:j:7:HIS:NE2	4:j:44:HIS:ND1	2.63	0.45
4:m:7:HIS:NE2	4:m:44:HIS:ND1	2.63	0.45
1:G:668:TYR:HB2	1:G:812:TYR:CD2	2.51	0.45
1:G:1166:PHE:HE2	2:Q:277:ALA:O	1.96	0.45
1:G:1288:CYS:O	1:G:1291:ARG:N	2.50	0.45
1:A:153:ILE:HG22	1:A:157:ARG:NH2	2.32	0.45
1:A:199:LEU:HD21	1:A:250:ASP:HB3	1.99	0.45
1:A:1104:VAL:HG13	1:A:1105:GLY:H	1.81	0.45
1:A:1216:GLY:N	1:A:1221:ASP:OD2	2.46	0.45
1:A:1278:THR:O	1:A:1279:ALA:C	2.58	0.45
1:A:1300:VAL:CG1	1:A:1313:ARG:NE	2.79	0.45
1:B:203:ARG:HD3	1:C:1116:ARG:HH21	1.81	0.45
1:B:416:PHE:HB2	1:C:423:LEU:HA	1.99	0.45
1:B:847:ILE:HG21	4:h:71:ASN:CA	2.47	0.45
1:B:1078:LEU:HD23	1:B:1095:GLN:HB2	1.98	0.45
1:C:244:ILE:CB	1:C:292:PHE:CE1	3.00	0.45
1:C:815:VAL:HG22	1:C:1028:TYR:HE2	1.81	0.45
1:C:1103:GLY:HA3	1:C:1107:THR:CG2	2.46	0.45
1:D:87:LEU:O	1:D:126:ARG:NH1	2.50	0.45
1:D:646:ARG:CZ	4:j:78:MET:CB	2.94	0.45
1:D:656:TRP:O	1:D:660:ARG:HD3	2.16	0.45
1:E:139:ALA:HB2	1:I:50:TYR:CE2	2.51	0.45
1:E:920:THR:O	1:E:1139:LEU:CD1	2.63	0.45
1:E:976:PHE:HE2	1:E:981:ARG:HD2	1.81	0.45
1:E:1304:THR:HG21	1:E:1314:PRO:HD3	1.99	0.45
1:F:841:ASN:C	1:F:874:THR:HG1	2.22	0.45
1:H:264:LEU:HD23	1:H:264:LEU:C	2.41	0.45
1:H:269:THR:CG2	1:H:270:ARG:N	2.80	0.45
1:H:301:ASP:CA	1:H:303:PRO:CD	2.94	0.45
1:I:268:ASP:O	1:I:301:ASP:HB2	2.17	0.45
1:I:284:ILE:HD11	1:I:1113:ALA:HB3	1.98	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:576:ARG:HA	1:I:1003:ARG:NH1	2.32	0.45
1:J:70:PHE:CE1	1:J:75:LEU:HD23	2.44	0.45
1:J:110:HIS:HA	1:J:111:PRO:HD3	1.61	0.45
1:J:225:ARG:HH12	1:J:1370:LYS:HE2	1.81	0.45
1:J:233:PHE:CZ	1:J:237:ALA:CB	2.99	0.45
1:J:269:THR:HG21	1:J:298:THR:CG2	2.47	0.45
1:J:398:MET:HB3	1:J:400:LEU:CD1	2.47	0.45
1:J:682:LEU:HB3	1:J:686:CYS:SG	2.57	0.45
1:J:913:ALA:HB1	1:J:914:PRO:CD	2.47	0.45
1:K:887:ASP:CG	1:K:889:PRO:HD2	2.42	0.45
1:K:1051:THR:CG2	1:K:1188:ILE:HB	2.46	0.45
1:M:16:ALA:O	1:M:17:MET:HG3	2.17	0.45
1:M:861:PRO:HA	1:M:866:HIS:CD2	2.52	0.45
1:N:238:GLY:HA2	1:N:244:ILE:HD11	1.98	0.45
1:N:1249:ARG:HG2	1:N:1250:PHE:CD2	2.52	0.45
1:O:263:ARG:HG3	1:O:263:ARG:HH11	1.82	0.45
1:O:1013:SER:OG	1:O:1020:LEU:HD22	2.16	0.45
1:O:1054:ARG:HD3	1:O:1185:CYS:SG	2.56	0.45
1:P:488:GLY:O	1:P:996:ALA:HB1	2.17	0.45
1:P:752:ARG:CD	1:P:927:ARG:CZ	2.94	0.45
1:P:866:HIS:HD2	1:P:868:ALA:CB	2.30	0.45
2:R:38:ARG:CZ	3:S:305:PRO:HG2	2.47	0.45
2:R:113:PRO:HG3	2:R:318:PRO:HB3	1.98	0.45
3:S:161:TRP:CE3	3:S:161:TRP:O	2.70	0.45
3:S:211:ILE:HG23	3:S:215:TYR:HB2	1.98	0.45
2:a:193:GLN:HG2	2:a:198:VAL:HG21	1.97	0.45
3:e:187:PHE:CE2	3:e:290:ALA:O	2.66	0.45
3:e:339:LEU:HD22	3:e:422:PHE:CE2	2.45	0.45
4:p:41:PRO:CD	4:p:42:HIS:N	2.79	0.45
4:s:15:ASP:C	4:s:28:ALA:HB1	2.41	0.45
4:s:96:ARG:NE	4:s:96:ARG:C	2.72	0.45
1:G:77:VAL:HG22	1:G:277:VAL:HG21	1.78	0.45
1:G:533:GLN:CB	1:G:534:PRO:HD3	2.47	0.45
1:G:637:SER:HB3	1:G:640:VAL:HB	1.99	0.45
1:G:1126:PRO:O	1:G:1184:VAL:HG13	2.17	0.45
1:A:589:VAL:HG13	1:A:1009:HIS:CD2	2.51	0.45
1:A:724:HIS:CD2	1:A:726:MET:H	2.34	0.45
1:A:736:VAL:HG12	1:A:738:ASP:O	2.16	0.45
1:A:957:VAL:HG13	1:A:958:LEU:N	2.29	0.45
1:A:1176:GLY:HA2	1:F:213:ARG:HH11	1.82	0.45
1:B:83:LYS:HA	1:B:1075:LEU:HB2	1.99	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:487:TYR:OH	1:B:989:LEU:HA	2.16	0.45
1:B:519:ARG:HD3	1:B:998:TYR:OH	2.16	0.45
1:B:627:PHE:CE1	1:B:651:CYS:HB3	2.51	0.45
1:B:837:ALA:CB	4:h:54:LEU:HD21	2.46	0.45
1:B:1054:ARG:CZ	1:B:1123:GLY:N	2.52	0.45
1:B:1181:GLN:OE1	1:B:1305:ALA:HA	2.16	0.45
1:B:1354:ARG:NH2	1:B:1357:HIS:HD2	2.11	0.45
1:C:80:VAL:O	1:C:1072:ALA:O	2.35	0.45
1:C:127:ARG:HG2	1:C:128:ALA:N	2.31	0.45
1:C:247:TRP:CE3	1:C:248:LEU:HD12	2.49	0.45
1:C:756:ILE:HG13	1:C:757:ASP:N	2.32	0.45
1:C:904:ARG:NH1	1:C:906:THR:HG23	2.31	0.45
1:D:347:ASN:ND2	1:E:163:GLN:HB3	2.32	0.45
1:D:525:GLN:HA	1:D:529:GLU:OE1	2.16	0.45
1:E:71:LEU:HD21	1:E:306:TYR:CE1	2.52	0.45
1:F:124:ILE:HA	1:F:1100:VAL:HG23	1.99	0.45
1:F:487:TYR:OH	1:F:990:VAL:N	2.37	0.45
1:F:918:ALA:CB	1:F:1032:SER:HB3	2.47	0.45
1:H:84:PHE:N	1:H:1075:LEU:O	2.45	0.45
1:H:1029:PHE:HB3	1:H:1039:GLN:NE2	2.31	0.45
1:I:274:VAL:HG11	1:I:376:PHE:CD2	2.52	0.45
1:I:348:ARG:HA	1:I:348:ARG:HD3	1.77	0.45
1:I:874:THR:CG2	1:I:877:ALA:N	2.63	0.45
1:J:269:THR:CG2	1:J:298:THR:CG2	2.95	0.45
1:J:1300:VAL:HG11	1:J:1318:ARG:CG	2.47	0.45
1:K:224:LYS:NZ	1:K:1214:TYR:OH	2.35	0.45
1:K:372:ASP:O	1:K:372:ASP:OD1	2.35	0.45
1:K:403:VAL:CG2	1:K:1331:ALA:CB	2.93	0.45
1:K:832:PHE:HB3	1:K:836:TYR:CE2	2.51	0.45
1:K:1134:GLY:HA3	1:K:1263:LEU:O	2.17	0.45
1:L:269:THR:HG23	1:L:367:LEU:HD12	1.97	0.45
1:L:293:LEU:C	1:L:295:VAL:N	2.71	0.45
1:L:819:ALA:O	1:L:820:PHE:CG	2.69	0.45
1:L:846:GLU:OE1	4:q:67:THR:OG1	2.34	0.45
1:L:1152:VAL:HG13	1:L:1159:PRO:CD	2.45	0.45
1:M:125:ASP:O	1:M:1098:GLY:HA2	2.17	0.45
1:M:736:VAL:HG12	1:M:738:ASP:O	2.17	0.45
1:N:97:PHE:CD1	1:N:97:PHE:N	2.84	0.45
1:N:280:THR:OG1	1:N:284:ILE:HB	2.16	0.45
1:N:296:GLU:HA	1:N:367:LEU:O	2.17	0.45
1:N:461:VAL:O	1:N:466:LEU:HD11	2.16	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:1165:VAL:CG1	3:V:140:LEU:HD11	2.18	0.45
1:O:71:LEU:HD21	1:O:306:TYR:CE2	2.45	0.45
1:O:544:HIS:ND1	1:O:1252:TYR:CD1	2.84	0.45
1:O:838:THR:O	1:O:875:VAL:HB	2.17	0.45
1:O:863:HIS:CE1	1:O:865:LEU:HB2	2.52	0.45
1:O:1188:ILE:HD11	1:O:1273:CYS:SG	2.57	0.45
1:O:1206:ARG:NH2	1:O:1206:ARG:CG	2.78	0.45
1:P:1208:ARG:NH2	1:P:1240:ALA:O	2.49	0.45
2:R:136:THR:O	2:R:137:LEU:HD23	2.15	0.45
2:T:183:GLY:O	2:T:184:ALA:C	2.60	0.45
2:U:316:ARG:HG2	2:U:317:TYR:H	1.82	0.45
2:U:317:TYR:CD1	2:U:318:PRO:HD2	2.52	0.45
3:V:211:ILE:HG23	3:V:215:TYR:HB2	1.99	0.45
3:V:349:ARG:O	3:V:349:ARG:HG2	2.17	0.45
2:W:37:ILE:HD13	2:X:298:CYS:HG	1.78	0.45
2:W:118:PRO:HG3	2:W:138:ARG:HB3	1.98	0.45
2:W:124:GLN:NE2	2:W:124:GLN:HA	2.28	0.45
2:X:176:LEU:HD23	2:X:176:LEU:HA	1.78	0.45
3:Y:108:TYR:OH	3:Y:110:LEU:CD2	2.65	0.45
3:Y:436:LEU:CG	3:Y:450:VAL:HG22	2.47	0.45
3:Y:442:PHE:N	3:Y:442:PHE:CD1	2.84	0.45
2:a:31:VAL:HG11	2:a:116:LEU:HD13	1.98	0.45
2:a:161:ARG:HH22	2:a:162:ASP:CB	2.30	0.45
3:b:189:PHE:HD2	3:b:189:PHE:O	2.00	0.45
3:b:315:THR:OG1	3:b:328:TYR:HE1	1.99	0.45
2:d:246:VAL:O	2:d:247:THR:C	2.60	0.45
3:e:139:ASP:HB2	3:e:142:HIS:HD2	1.76	0.45
3:e:243:GLU:O	3:e:244:VAL:CG2	2.65	0.45
3:e:251:LEU:HD23	3:e:254:TRP:CE3	2.44	0.45
4:m:93:GLY:C	4:m:95:LYS:N	2.74	0.45
1:G:77:VAL:HG23	1:G:277:VAL:HG21	1.96	0.45
1:G:539:LEU:HD11	1:G:1244:PRO:HB3	1.99	0.45
1:G:724:HIS:HE1	1:G:1028:TYR:HB2	1.82	0.45
1:G:751:HIS:NE2	1:G:754:CYS:CB	2.74	0.45
1:A:58:LEU:HD22	1:F:124:ILE:HG13	1.99	0.45
1:B:35:LEU:C	1:B:37:ASP:N	2.68	0.45
1:B:107:ASP:CB	1:C:129:LEU:HD23	2.47	0.45
1:B:724:HIS:CE1	1:B:1028:TYR:HB2	2.51	0.45
1:B:911:SER:HB3	1:B:929:PHE:CD1	2.52	0.45
1:B:950:GLN:O	1:B:953:GLU:HG2	2.17	0.45
1:B:1200:ARG:NH2	1:B:1200:ARG:HG3	2.30	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1364:TYR:CG	1:B:1365:ASP:N	2.84	0.45
1:C:433:ARG:HH12	1:C:1341:ALA:HB3	1.82	0.45
1:C:456:ASN:OD1	1:C:1126:PRO:HG3	2.17	0.45
1:C:635:HIS:CE1	1:C:640:VAL:HG21	2.52	0.45
1:C:871:VAL:HG12	1:C:872:ALA:H	1.81	0.45
1:D:70:PHE:HD1	1:D:181:ALA:HB2	1.81	0.45
1:D:1037:TYR:O	1:D:1037:TYR:CG	2.69	0.45
1:E:734:PRO:O	1:E:735:LEU:HD23	2.17	0.45
1:E:750:ARG:NH2	1:E:913:ALA:O	2.50	0.45
1:E:1198:TYR:O	1:E:1199:PHE:CD2	2.70	0.45
1:F:99:VAL:HG23	1:F:118:ASN:ND2	2.32	0.45
1:F:408:LEU:HB2	1:F:1196:ILE:HD11	1.99	0.45
1:F:920:THR:HA	1:F:1139:LEU:HG	1.97	0.45
1:F:1335:THR:HA	1:F:1363:ILE:O	2.17	0.45
1:F:1364:TYR:CG	1:F:1365:ASP:N	2.85	0.45
1:H:236:LYS:HE2	1:H:1370:LYS:O	2.17	0.45
1:H:330:ASP:O	1:H:334:ARG:HG3	2.17	0.45
1:H:366:ASP:OD2	1:H:377:LEU:HB3	2.17	0.45
1:H:443:TRP:CH2	1:H:1347:ARG:CD	2.96	0.45
1:H:452:LEU:CD2	1:H:456:ASN:HD21	2.18	0.45
1:H:464:PRO:HD3	1:H:1147:LEU:HD11	1.99	0.45
1:H:481:VAL:CG2	1:H:482:GLU:H	2.30	0.45
1:H:726:MET:HE1	1:H:814:TYR:CB	2.47	0.45
1:H:1160:ALA:HB2	1:H:1172:PRO:HG3	1.97	0.45
1:I:70:PHE:CD1	1:I:181:ALA:HB2	2.52	0.45
1:I:219:LEU:CD1	1:I:223:LEU:HD11	2.46	0.45
1:I:543:LEU:N	1:I:543:LEU:HD12	2.31	0.45
1:I:726:MET:HE1	1:I:814:TYR:CB	2.44	0.45
1:J:77:VAL:CG1	1:J:277:VAL:CG1	2.79	0.45
1:J:269:THR:CG2	1:J:298:THR:HG21	2.46	0.45
1:J:1364:TYR:CG	1:J:1365:ASP:N	2.84	0.45
1:K:274:VAL:HG11	1:K:376:PHE:CE2	2.52	0.45
1:K:275:ASP:OD1	1:K:373:ARG:HG2	2.17	0.45
1:K:329:LEU:O	1:K:333:GLY:N	2.46	0.45
1:K:1052:VAL:HA	1:K:1186:GLU:O	2.17	0.45
1:K:1115:VAL:CG1	1:K:1374:LEU:HD21	2.45	0.45
1:L:505:PHE:CE1	1:L:509:TRP:CD1	3.05	0.45
1:L:1080:VAL:HG22	1:L:1093:LEU:HD22	1.95	0.45
1:L:1147:LEU:HD12	1:L:1147:LEU:HA	1.30	0.45
1:M:871:VAL:HG12	1:M:872:ALA:N	2.32	0.45
1:M:895:GLN:OE1	4:f:62:THR:HA	2.16	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:728:ASP:O	1:N:810:LYS:NZ	2.50	0.45
1:N:1210:ALA:HB3	1:N:1329:GLN:HE21	1.78	0.45
1:O:486:PRO:HD2	1:O:509:TRP:CH2	2.51	0.45
1:O:841:ASN:C	1:O:874:THR:HG1	2.24	0.45
1:O:1190:THR:HG22	1:O:1243:ASN:ND2	2.32	0.45
1:P:148:LEU:O	1:P:149:ASP:C	2.56	0.45
1:P:232:PHE:HA	1:P:1113:ALA:HA	1.98	0.45
1:P:429:HIS:CD2	1:P:429:HIS:N	2.84	0.45
1:P:759:GLY:N	1:P:779:ASN:O	2.49	0.45
1:P:917:GLY:O	1:P:1138:LEU:CD2	2.65	0.45
1:P:1335:THR:HA	1:P:1363:ILE:O	2.17	0.45
2:R:103:THR:O	2:R:141:VAL:HG13	2.17	0.45
2:T:160:ILE:CD1	2:T:206:VAL:HG13	2.42	0.45
2:X:13:PRO:CB	2:X:133:LEU:CD1	2.94	0.45
3:Y:109:HIS:O	3:Y:266:VAL:HG13	2.16	0.45
3:Y:243:GLU:O	3:Y:244:VAL:CG2	2.65	0.45
2:a:32:VAL:CG1	2:a:46:VAL:HG11	2.43	0.45
2:a:281:HIS:NE2	3:b:465:CYS:O	2.45	0.45
2:d:97:THR:HG21	2:d:300:PHE:CZ	2.52	0.45
3:e:345:ARG:C	3:e:347:PHE:H	2.25	0.45
4:i:93:GLY:C	4:i:95:LYS:N	2.74	0.45
4:k:32:ALA:O	4:l:99:SER:CB	2.65	0.45
4:t:17:VAL:CA	4:t:20:LEU:HD12	2.46	0.45
1:G:117:HIS:CG	1:B:36:PHE:CE2	3.03	0.45
1:G:313:GLY:HA2	1:A:313:GLY:O	2.17	0.45
1:G:614:VAL:HG11	1:G:820:PHE:CD2	2.51	0.45
1:G:788:GLN:CG	1:G:791:ALA:HA	2.43	0.45
1:G:829:GLY:N	1:G:956:TYR:O	2.50	0.45
1:A:184:MET:HE3	1:A:184:MET:HB3	1.71	0.45
1:A:331:ASP:HA	1:A:334:ARG:HG2	1.98	0.45
1:A:367:LEU:CG	1:A:374:LEU:HD11	2.47	0.45
1:A:456:ASN:OD1	1:A:1126:PRO:HG3	2.16	0.45
1:A:871:VAL:HG12	1:A:872:ALA:H	1.82	0.45
1:A:884:VAL:HG12	1:A:886:VAL:HG23	1.99	0.45
1:A:889:PRO:CD	4:g:69:ALA:HB2	2.45	0.45
1:B:244:ILE:HD12	1:B:244:ILE:N	2.31	0.45
1:B:408:LEU:HD11	1:B:1199:PHE:CE2	2.52	0.45
1:B:1198:TYR:CD1	1:B:1198:TYR:O	2.70	0.45
1:C:77:VAL:HB	1:C:266:HIS:ND1	2.32	0.45
1:C:311:LEU:HD12	1:C:315:ASN:HB3	1.99	0.45
1:C:357:ALA:N	1:C:358:PRO:HD3	2.31	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1051:THR:CG2	1:C:1188:ILE:HB	2.47	0.45
1:D:264:LEU:O	1:D:264:LEU:HD12	2.17	0.45
1:D:767:ALA:O	1:D:786:ASN:ND2	2.48	0.45
1:D:892:LEU:CG	4:j:65:GLY:HA2	2.47	0.45
1:D:1252:TYR:CD1	1:D:1252:TYR:O	2.70	0.45
1:E:266:HIS:ND1	1:E:266:HIS:C	2.73	0.45
1:E:321:VAL:O	1:F:12:ARG:HD2	2.17	0.45
1:E:1125:LEU:CD1	1:E:1156:ARG:HB2	2.47	0.45
1:E:1201:ARG:HD2	1:F:447:HIS:C	2.42	0.45
1:F:584:LEU:HD13	1:F:589:VAL:HG23	1.99	0.45
1:F:586:LEU:HD23	1:F:1245:TRP:CZ2	2.52	0.45
1:F:1085:THR:HG23	1:F:1090:ASN:OD1	2.08	0.45
1:H:309:MET:HE3	1:H:309:MET:HB2	1.70	0.45
1:H:752:ARG:HD3	1:H:752:ARG:HA	1.42	0.45
1:H:836:TYR:CE2	1:H:901:MET:HB2	2.52	0.45
1:I:251:LEU:HD21	1:I:1065:PHE:HB2	1.98	0.45
1:I:853:CYS:CB	4:n:69:ALA:O	2.56	0.45
1:I:948:THR:C	1:I:949:ILE:CG1	2.89	0.45
1:J:95:VAL:CG2	1:J:1100:VAL:HG21	2.47	0.45
1:J:437:PRO:O	1:J:437:PRO:HG2	2.17	0.45
1:J:437:PRO:HB2	1:J:1360:GLN:OE1	2.12	0.45
1:J:452:LEU:CD2	1:J:456:ASN:HD21	2.18	0.45
1:J:464:PRO:O	1:J:465:SER:C	2.60	0.45
1:J:1040:LEU:HD21	1:J:1046:PRO:HG3	1.99	0.45
1:J:1075:LEU:CD1	1:J:1095:GLN:HE22	2.29	0.45
1:K:234:LEU:C	1:K:1114:THR:HG22	2.42	0.45
1:K:487:TYR:CD2	1:K:520:TRP:CZ2	3.05	0.45
1:K:626:VAL:CG1	1:K:878:MET:HG3	2.47	0.45
1:K:743:MET:HE1	1:K:797:ASP:C	2.42	0.45
1:K:833:ASP:O	4:p:54:LEU:CD1	2.59	0.45
1:K:1196:ILE:O	1:K:1197:ASN:HB2	2.16	0.45
1:K:1201:ARG:NH2	1:L:446:ASP:HB3	2.32	0.45
1:L:606:MET:H	1:L:1018:ASN:ND2	2.15	0.45
1:L:846:GLU:OE1	4:q:67:THR:HG23	2.16	0.45
1:L:1161:GLN:O	1:L:1162:PRO:C	2.59	0.45
1:M:811:ILE:O	1:M:815:VAL:HB	2.17	0.45
1:M:920:THR:HG22	1:M:1138:LEU:CA	2.31	0.45
1:M:1206:ARG:NH1	1:M:1226:MET:CG	2.79	0.45
1:M:1229:HIS:CD2	1:M:1241:THR:CG2	2.90	0.45
1:M:1291:ARG:O	1:M:1294:VAL:HG22	2.17	0.45
1:N:301:ASP:HB3	1:N:367:LEU:HD11	1.99	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:322:MET:H	1:N:322:MET:HG3	1.54	0.45
1:N:324:LYS:HA	1:O:55:ASP:O	2.16	0.45
1:N:423:LEU:HD12	1:N:1357:HIS:CD2	2.51	0.45
1:O:947:HIS:CD2	1:O:947:HIS:N	2.85	0.45
1:P:81:CYS:CB	1:P:306:TYR:CE1	2.99	0.45
1:P:701:ALA:O	1:P:727:ARG:NH2	2.49	0.45
1:P:778:ARG:HH21	1:P:780:ASP:CG	2.24	0.45
2:Q:36:THR:HG22	2:R:110:ASN:HD22	1.82	0.45
2:R:159:GLY:CA	2:R:193:GLN:HE21	2.28	0.45
3:S:167:ALA:HB3	3:S:226:ARG:CG	2.21	0.45
3:S:300:LEU:HD13	3:S:332:SER:HB2	1.84	0.45
3:S:311:TYR:OH	3:S:336:PRO:HD3	2.17	0.45
2:U:103:THR:O	2:U:141:VAL:HG13	2.17	0.45
3:V:241:PRO:HB2	3:V:314:PHE:CE2	2.51	0.45
2:X:113:PRO:HG3	2:X:318:PRO:HB3	1.98	0.45
2:a:147:LEU:HD12	2:a:181:TYR:CD1	2.52	0.45
3:b:257:GLN:O	3:b:258:ASP:C	2.58	0.45
3:b:300:LEU:HD22	3:b:333:GLN:HG2	1.92	0.45
3:e:108:TYR:OH	3:e:110:LEU:CD2	2.65	0.45
4:i:92:PHE:HA	4:i:102:VAL:H	1.82	0.45
4:p:22:MET:O	4:p:25:LEU:CB	2.57	0.45
1:G:97:PHE:CD1	1:G:97:PHE:O	2.70	0.45
1:G:419:HIS:CG	1:G:421:GLY:H	2.34	0.45
1:G:586:LEU:HG	1:G:1191:PRO:CB	2.46	0.45
1:G:644:LEU:HD23	1:G:647:LEU:HD23	1.99	0.45
1:G:839:LEU:HD23	1:G:839:LEU:HA	1.77	0.45
1:G:1221:ASP:OD1	1:G:1222:VAL:N	2.49	0.45
1:A:55:ASP:O	1:F:324:LYS:HB3	2.17	0.45
1:A:775:ASP:OD2	1:A:778:ARG:HB3	2.16	0.45
1:B:493:ALA:HB1	1:B:755:ARG:HE	1.82	0.45
1:B:841:ASN:HA	4:h:22:MET:CE	2.46	0.45
1:C:51:ASP:CB	3:S:278:HIS:CG	2.99	0.45
1:C:486:PRO:CG	1:C:564:PRO:HG3	2.48	0.45
1:D:269:THR:OG1	1:D:362:ARG:CZ	2.65	0.45
1:D:497:PRO:HG2	1:D:500:ASP:OD1	2.17	0.45
1:D:607:ALA:O	1:D:610:THR:HG22	2.16	0.45
1:D:775:ASP:OD2	1:D:778:ARG:HB3	2.17	0.45
1:D:840:GLN:CD	4:j:58:ALA:HB2	2.42	0.45
1:E:114:GLN:HB2	1:F:133:PHE:HA	1.98	0.45
1:E:532:MET:HG3	1:E:534:PRO:HD2	1.99	0.45
1:E:638:GLU:OE1	1:E:789:ALA:HB2	2.17	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:237:ALA:O	1:F:244:ILE:HD11	2.17	0.45
1:F:527:THR:HG22	1:F:528:ALA:N	2.32	0.45
1:H:454:MET:C	1:H:456:ASN:N	2.75	0.45
1:H:956:TYR:CE1	1:H:958:LEU:HD12	2.43	0.45
1:I:266:HIS:CB	1:I:304:VAL:HG13	2.47	0.45
1:I:274:VAL:HG22	1:I:374:LEU:CD2	2.47	0.45
1:I:1042:THR:HG22	1:I:1042:THR:O	2.17	0.45
1:I:1104:VAL:HG21	1:L:29:VAL:HG11	1.99	0.45
1:I:1190:THR:HG22	1:I:1243:ASN:ND2	2.32	0.45
1:J:26:THR:O	1:J:27:ILE:HD13	2.17	0.45
1:J:399:ASP:O	1:J:1324:PRO:HD2	2.17	0.45
1:J:493:ALA:HB2	1:J:560:GLY:HA2	1.98	0.45
1:J:770:ASN:H	1:J:773:THR:HB	1.82	0.45
1:J:819:ALA:O	1:J:820:PHE:CG	2.69	0.45
1:L:895:GLN:OE1	4:q:62:THR:HA	2.16	0.45
1:M:1077:GLN:HG3	1:M:1078:LEU:H	1.82	0.45
1:M:1078:LEU:HD23	1:M:1078:LEU:HA	1.57	0.45
1:N:67:LEU:HD21	1:N:69:ARG:NH2	2.30	0.45
1:N:154:SER:HA	1:N:157:ARG:HG2	1.98	0.45
1:N:438:ARG:HD3	1:N:1045:HIS:HB2	1.99	0.45
1:N:871:VAL:HG12	1:N:872:ALA:N	2.32	0.45
1:N:909:LEU:HD11	1:N:929:PHE:HB3	1.99	0.45
1:O:544:HIS:HE1	1:O:1252:TYR:CE1	2.35	0.45
1:O:1133:ARG:O	1:O:1133:ARG:HG3	2.17	0.45
1:P:198:LEU:CD2	1:P:254:ALA:HB1	2.47	0.45
1:P:534:PRO:O	1:P:534:PRO:HG2	2.17	0.45
1:P:700:LEU:O	1:P:1025:MET:HE2	2.17	0.45
1:P:788:GLN:HG3	1:P:793:ASP:O	2.17	0.45
1:P:1158:GLY:O	1:P:1172:PRO:CD	2.65	0.45
2:Q:100:LEU:HG	2:Q:314:VAL:HG21	1.99	0.45
2:R:11:ALA:O	2:R:12:ILE:C	2.60	0.45
2:R:32:VAL:CG2	2:R:75:ILE:HD11	2.47	0.45
2:R:147:LEU:HD12	2:R:181:TYR:CD1	2.52	0.45
3:S:122:PRO:CB	3:S:254:TRP:CB	2.94	0.45
3:S:243:GLU:O	3:S:244:VAL:CG2	2.65	0.45
2:U:246:VAL:O	2:U:247:THR:C	2.60	0.45
3:V:437:HIS:CD2	3:V:451:ILE:CG1	2.99	0.45
3:Y:300:LEU:HD11	3:Y:333:GLN:H	1.76	0.45
2:Z:211:TYR:CD1	2:a:241:LEU:HD23	2.53	0.45
2:Z:227:LEU:C	2:Z:228:LEU:HD12	2.43	0.45
2:Z:315:ILE:HD13	3:b:109:HIS:CD2	2.52	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:a:316:ARG:HG2	2:a:317:TYR:H	1.82	0.45
3:b:130:LEU:C	3:b:187:PHE:H	2.22	0.45
4:f:7:HIS:NE2	4:f:44:HIS:ND1	2.63	0.45
4:k:7:HIS:NE2	4:k:44:HIS:ND1	2.63	0.45
4:l:7:HIS:NE2	4:l:44:HIS:ND1	2.63	0.45
4:s:7:HIS:NE2	4:s:44:HIS:ND1	2.63	0.45
1:G:1357:HIS:O	1:G:1358:PHE:C	2.58	0.44
1:A:408:LEU:HD21	1:A:1190:THR:OG1	2.17	0.44
1:A:473:VAL:O	1:A:477:ASN:HB2	2.17	0.44
1:A:580:GLY:HA2	1:A:592:ARG:NH1	2.26	0.44
1:A:680:GLY:HA3	1:F:883:ARG:CD	2.47	0.44
1:A:871:VAL:HG12	1:A:872:ALA:N	2.32	0.44
1:A:1342:LEU:O	1:A:1345:SER:OG	2.28	0.44
1:B:18:VAL:HG21	1:B:24:LEU:CD2	2.46	0.44
1:C:382:LYS:O	1:C:386:ALA:HB2	2.17	0.44
1:C:487:TYR:OH	1:C:989:LEU:HA	2.17	0.44
1:C:578:VAL:HA	1:C:1030:LYS:HA	1.99	0.44
1:C:591:PHE:CE2	1:C:595:ARG:HD2	2.53	0.44
1:C:771:VAL:HG12	1:C:901:MET:HE1	1.98	0.44
1:C:866:HIS:CD2	1:C:868:ALA:H	2.35	0.44
1:C:1051:THR:HG22	1:C:1188:ILE:HB	1.98	0.44
1:D:194:PRO:HA	1:D:1110:ALA:O	2.17	0.44
1:D:582:LEU:HD13	1:D:1031:MET:HE1	1.88	0.44
1:D:644:LEU:HD23	1:D:647:LEU:HD23	1.98	0.44
1:D:656:TRP:CD2	1:D:686:CYS:HB3	2.51	0.44
1:D:739:CYS:HB2	1:D:785:HIS:ND1	2.32	0.44
1:D:1286:HIS:HB2	1:I:34:ARG:NH2	2.30	0.44
1:E:445:LYS:CB	1:E:1121:ASP:O	2.65	0.44
1:E:626:VAL:CG1	1:E:878:MET:HG3	2.43	0.44
1:F:821:SER:C	1:F:823:GLY:N	2.72	0.44
1:H:1198:TYR:O	1:H:1199:PHE:CD2	2.70	0.44
1:H:1364:TYR:CG	1:H:1365:ASP:N	2.85	0.44
1:I:755:ARG:O	1:I:755:ARG:HG2	2.11	0.44
1:J:135:LEU:HD12	1:J:1091:PHE:HE1	1.82	0.44
1:J:377:LEU:C	1:J:378:GLU:CG	2.90	0.44
1:J:491:VAL:O	1:J:558:LEU:O	2.35	0.44
1:J:756:ILE:CD1	1:J:906:THR:HG22	2.42	0.44
1:J:1023:ALA:HA	1:J:1026:ALA:HB3	1.99	0.44
1:J:1063:VAL:N	1:J:1111:ALA:O	2.50	0.44
1:K:134:SER:HB2	1:K:1089:VAL:O	2.16	0.44
1:K:143:LEU:C	1:K:145:GLY:H	2.25	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:778:ARG:NH2	1:K:782:ARG:H	2.13	0.44
1:L:68:VAL:O	1:L:68:VAL:HG23	2.17	0.44
1:L:268:ASP:CB	1:L:301:ASP:CA	2.95	0.44
1:L:445:LYS:HD3	1:L:1118:PRO:CB	2.40	0.44
1:L:740:ASP:OD1	1:L:785:HIS:CE1	2.53	0.44
1:L:838:THR:HG1	1:L:954:TYR:HH	1.62	0.44
1:L:840:GLN:CD	4:q:58:ALA:CA	2.90	0.44
1:L:842:MET:SD	4:q:61:LEU:CD1	3.05	0.44
1:L:1115:VAL:HG11	1:L:1374:LEU:HD21	1.98	0.44
1:M:124:ILE:HD13	1:M:1100:VAL:HG23	1.99	0.44
1:M:574:THR:HG21	1:M:998:TYR:O	2.17	0.44
1:N:252:THR:CG2	1:N:373:ARG:HD2	2.46	0.44
1:N:403:VAL:CG2	1:N:1331:ALA:HB3	2.45	0.44
1:N:1159:PRO:HA	1:N:1170:GLN:O	2.17	0.44
1:N:1162:PRO:O	1:N:1162:PRO:HD2	2.17	0.44
1:N:1304:THR:CG2	1:N:1314:PRO:HD2	2.47	0.44
1:O:77:VAL:CA	1:O:266:HIS:CE1	2.98	0.44
1:P:77:VAL:HB	1:P:266:HIS:CE1	2.52	0.44
1:P:153:ILE:O	1:P:156:HIS:HB3	2.17	0.44
1:P:293:LEU:HD11	1:P:368:VAL:HG11	2.00	0.44
2:R:159:GLY:HA2	2:R:193:GLN:HG2	1.99	0.44
2:T:100:LEU:HD12	2:T:314:VAL:HG21	1.99	0.44
2:U:298:CYS:HB3	2:U:315:ILE:HG23	1.98	0.44
3:V:197:ALA:C	3:V:324:LEU:HD11	2.42	0.44
2:W:153:ALA:HA	2:W:156:VAL:HG12	1.98	0.44
2:X:97:THR:HG21	2:X:300:PHE:CZ	2.52	0.44
3:Y:139:ASP:O	3:Y:141:PRO:N	2.50	0.44
3:Y:204:ALA:N	3:Y:294:VAL:HG21	2.32	0.44
2:a:38:ARG:HD3	2:a:41:LEU:HD12	1.99	0.44
3:b:140:LEU:CD1	3:b:158:ALA:CA	2.74	0.44
3:b:150:PRO:HA	3:b:151:GLY:HA2	1.67	0.44
2:c:272:TYR:CD2	2:d:161:ARG:CD	2.98	0.44
2:d:161:ARG:HH11	2:d:174:PRO:CD	2.23	0.44
3:e:198:TYR:OH	3:e:294:VAL:HG11	2.17	0.44
3:e:204:ALA:N	3:e:294:VAL:HG21	2.33	0.44
4:h:93:GLY:C	4:h:95:LYS:N	2.74	0.44
4:i:41:PRO:CD	4:i:42:HIS:N	2.79	0.44
4:p:44:HIS:HD2	4:p:47:GLN:O	1.98	0.44
1:G:409:PHE:CD2	1:G:591:PHE:HD1	2.35	0.44
1:A:380:LEU:O	1:A:381:GLU:CG	2.56	0.44
1:A:485:ASN:HB3	1:A:512:ARG:O	2.16	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:775:ASP:O	1:A:903:GLU:HB2	2.17	0.44
1:A:788:GLN:HB3	1:A:800:HIS:CE1	2.52	0.44
1:A:897:LEU:O	1:A:901:MET:HE2	2.17	0.44
1:A:945:LEU:O	1:A:946:ASP:CB	2.65	0.44
1:A:1369:LEU:HD13	1:A:1372:LEU:HD12	1.99	0.44
1:B:1080:VAL:HG22	1:B:1093:LEU:CG	2.33	0.44
1:B:1083:HIS:O	1:B:1083:HIS:CG	2.70	0.44
1:B:1215:ALA:HB1	1:B:1221:ASP:CG	2.42	0.44
1:B:1221:ASP:OD1	1:B:1222:VAL:HG23	2.17	0.44
1:B:1348:ASP:HB2	1:B:1352:HIS:HE1	1.81	0.44
1:C:133:PHE:HB2	1:C:168:ASN:HB3	1.98	0.44
1:C:696:HIS:CE1	1:C:1021:THR:HG21	2.51	0.44
1:C:802:PRO:O	1:C:803:ALA:HB2	2.18	0.44
1:C:981:ARG:NH2	1:D:803:ALA:H	2.12	0.44
1:C:1218:LYS:CA	1:C:1221:ASP:OD1	2.62	0.44
1:D:462:CYS:SG	1:D:1037:TYR:HB2	2.57	0.44
1:D:742:LEU:O	1:D:746:ALA:N	2.43	0.44
1:D:790:ARG:HH21	1:D:792:ALA:HB3	1.82	0.44
1:D:889:PRO:CD	4:j:69:ALA:HB2	2.43	0.44
1:D:911:SER:HB3	1:D:929:PHE:CD1	2.52	0.44
1:D:1169:ALA:O	1:D:1170:GLN:C	2.59	0.44
1:E:284:ILE:HD13	1:E:1113:ALA:HB3	1.99	0.44
1:E:643:ALA:HB1	1:E:896:VAL:HG21	1.99	0.44
1:E:1049:GLY:O	1:E:1190:THR:N	2.47	0.44
1:F:237:ALA:CB	1:F:240:ARG:HH22	2.18	0.44
1:F:266:HIS:HE1	1:F:376:PHE:CZ	2.35	0.44
1:F:403:VAL:C	1:F:404:LEU:HD12	2.41	0.44
1:F:423:LEU:CD1	1:F:433:ARG:NH2	2.78	0.44
1:F:1321:VAL:HG22	1:F:1322:GLU:H	1.82	0.44
1:H:1218:LYS:NZ	1:I:1173:ARG:CG	2.77	0.44
1:I:70:PHE:O	1:I:70:PHE:CG	2.70	0.44
1:I:105:ALA:HB1	1:J:129:LEU:HB3	2.00	0.44
1:I:525:GLN:NE2	1:I:536:ASN:HB3	2.32	0.44
1:I:544:HIS:HD2	1:I:546:ALA:N	1.97	0.44
1:I:1157:LEU:HD21	1:I:1309:VAL:HG11	1.99	0.44
1:J:187:VAL:CG2	1:J:1071:GLU:OE1	2.65	0.44
1:J:541:LEU:HA	1:J:541:LEU:HD23	1.71	0.44
1:J:668:TYR:HB3	1:J:809:HIS:CD2	2.52	0.44
1:J:1222:VAL:HA	1:J:1225:LEU:HB3	2.00	0.44
1:J:1246:ALA:HB1	1:J:1277:PHE:HE1	1.82	0.44
1:K:191:LYS:O	1:K:192:ALA:CB	2.65	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:497:PRO:HG2	1:K:500:ASP:OD1	2.16	0.44
1:K:532:MET:HB2	1:K:534:PRO:HD2	1.99	0.44
1:K:831:ARG:O	1:K:835:VAL:HG23	2.17	0.44
1:L:757:ASP:O	1:L:758:ALA:HB2	2.17	0.44
1:M:124:ILE:HD13	1:M:1100:VAL:HG21	1.99	0.44
1:M:589:VAL:HG13	1:M:1009:HIS:HD2	1.80	0.44
1:M:873:ASN:CG	4:r:95:LYS:HE2	2.42	0.44
1:M:1051:THR:CG2	1:M:1188:ILE:HB	2.47	0.44
1:M:1244:PRO:HG2	1:M:1245:TRP:CD1	2.52	0.44
1:N:316:LEU:O	1:N:320:LEU:HG	2.17	0.44
1:N:621:ARG:NH2	1:O:698:GLU:OE2	2.50	0.44
1:N:681:ASP:O	1:N:682:LEU:HD12	2.17	0.44
1:N:842:MET:CG	4:r:61:LEU:HD21	2.28	0.44
1:N:1198:TYR:O	1:N:1198:TYR:CD1	2.70	0.44
1:N:1270:LEU:HD22	1:N:1303:ALA:HB2	1.98	0.44
1:O:152:GLY:HA2	1:O:155:LEU:HD13	1.99	0.44
1:O:192:ALA:CB	1:O:1108:ALA:O	2.65	0.44
1:O:193:PRO:HG3	1:O:1294:VAL:CG1	2.32	0.44
1:O:372:ASP:OD1	1:O:372:ASP:N	2.50	0.44
1:O:1201:ARG:HB3	1:O:1202:PRO:HD2	1.98	0.44
1:P:1061:GLU:OE2	1:P:1116:ARG:CD	2.65	0.44
3:S:164:LEU:HD13	3:S:227:PHE:HB2	2.00	0.44
3:S:204:ALA:N	3:S:294:VAL:HG21	2.33	0.44
2:T:118:PRO:HG3	2:T:138:ARG:HB3	1.98	0.44
2:U:159:GLY:HA2	2:U:193:GLN:HG2	1.99	0.44
2:X:163:LEU:HD23	2:X:163:LEU:C	2.41	0.44
2:X:264:ASP:CG	3:Y:150:PRO:CG	2.88	0.44
3:Y:311:TYR:OH	3:Y:334:LEU:O	2.30	0.44
2:Z:36:THR:HG22	2:a:110:ASN:HD22	1.82	0.44
2:a:29:GLY:O	2:a:101:ARG:N	2.43	0.44
2:a:291:LEU:HD23	3:b:337:ARG:HE	1.78	0.44
3:b:107:ARG:O	3:b:108:TYR:CD2	2.69	0.44
3:b:132:LEU:HD21	3:b:187:PHE:CD1	2.51	0.44
3:b:132:LEU:HG	3:b:187:PHE:HB2	2.00	0.44
3:b:132:LEU:O	3:b:185:VAL:N	2.50	0.44
3:b:245:MET:HE2	3:b:245:MET:HB2	1.60	0.44
3:b:309:PHE:N	3:b:309:PHE:CD1	2.84	0.44
2:c:218:THR:OG1	2:d:246:VAL:CG1	2.64	0.44
4:n:22:MET:N	4:n:64:LEU:HD11	2.32	0.44
4:n:41:PRO:CD	4:n:42:HIS:N	2.79	0.44
4:o:20:LEU:CD1	4:o:21:GLY:O	2.66	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:q:22:MET:HA	4:q:25:LEU:HD12	2.00	0.44
4:t:6:PHE:C	4:t:10:SER:HB2	2.42	0.44
1:G:606:MET:HG3	1:G:696:HIS:CD2	2.52	0.44
1:G:878:MET:HA	1:G:881:ASN:ND2	2.33	0.44
1:A:84:PHE:CD1	1:A:309:MET:SD	3.11	0.44
1:A:195:LEU:HD13	1:A:196:ALA:N	2.32	0.44
1:A:323:GLY:C	1:A:324:LYS:CG	2.88	0.44
1:A:657:ASN:HA	1:A:660:ARG:NH1	2.32	0.44
1:B:136:ALA:HB2	1:B:1088:GLY:HA3	1.99	0.44
1:B:321:VAL:HA	1:C:14:ALA:CB	2.47	0.44
1:B:429:HIS:HB3	1:B:430:PRO:CD	2.45	0.44
1:B:732:LEU:HD13	1:B:736:VAL:HG21	1.99	0.44
1:B:871:VAL:HG12	1:B:872:ALA:N	2.32	0.44
1:C:1201:ARG:NH1	1:D:448:GLN:HB2	2.32	0.44
1:D:1037:TYR:CE1	1:D:1041:LYS:CG	3.00	0.44
1:E:180:THR:HG23	1:E:1073:TYR:CE2	2.52	0.44
1:E:288:LEU:HB3	1:E:293:LEU:HD22	1.98	0.44
1:E:631:GLN:OE1	1:E:666:ASN:ND2	2.49	0.44
1:F:232:PHE:CZ	1:F:398:MET:SD	3.10	0.44
1:F:589:VAL:HG13	1:F:1009:HIS:HD2	1.81	0.44
1:F:684:GLU:HA	1:F:684:GLU:OE1	2.17	0.44
1:F:956:TYR:O	1:F:956:TYR:CD2	2.70	0.44
1:F:1125:LEU:HB3	1:F:1183:ALA:O	2.18	0.44
1:I:196:ALA:HB1	1:I:227:PHE:HA	1.99	0.44
1:I:445:LYS:CD	1:I:1179:HIS:O	2.66	0.44
1:I:1225:LEU:HD13	1:I:1225:LEU:C	2.42	0.44
1:J:264:LEU:HD22	1:J:266:HIS:CD2	2.52	0.44
1:J:461:VAL:CB	1:J:1050:PHE:HZ	2.24	0.44
1:J:778:ARG:CZ	1:J:782:ARG:HD2	2.47	0.44
1:J:1270:LEU:HA	1:J:1312:LYS:HB2	1.99	0.44
1:J:1372:LEU:HD23	1:J:1372:LEU:HA	1.53	0.44
1:K:77:VAL:HG12	1:K:277:VAL:CG2	2.48	0.44
1:K:96:GLN:HB2	1:K:121:THR:HG22	1.97	0.44
1:K:193:PRO:CG	1:K:198:LEU:HD12	2.47	0.44
1:K:347:ASN:HB2	1:L:167:ARG:NH2	2.32	0.44
1:K:836:TYR:O	1:K:840:GLN:HG2	2.18	0.44
1:L:532:MET:HB2	1:L:534:PRO:HD2	1.99	0.44
1:L:790:ARG:HD3	4:q:103:VAL:O	2.17	0.44
1:L:811:ILE:O	1:L:815:VAL:HB	2.17	0.44
1:L:837:ALA:HB2	4:q:54:LEU:HD21	1.96	0.44
1:L:982:ASP:OD2	1:M:718:ALA:HB1	2.18	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:883:ARG:HG3	1:N:680:GLY:HA3	1.99	0.44
1:M:1059:VAL:HG23	1:M:1119:VAL:HG23	1.98	0.44
1:M:1166:PHE:HZ	2:c:284:GLN:HB3	1.82	0.44
1:N:299:GLU:HG2	1:N:299:GLU:O	2.17	0.44
1:N:451:ARG:O	1:N:1124:ASN:OD1	2.36	0.44
1:N:506:LEU:O	1:N:510:ARG:HG3	2.16	0.44
1:N:558:LEU:HD21	1:N:999:PHE:CE1	2.52	0.44
1:O:295:VAL:O	1:O:297:ASP:OD1	2.34	0.44
1:O:606:MET:HG3	1:O:696:HIS:CD2	2.52	0.44
1:O:837:ALA:CA	4:s:54:LEU:CD2	2.55	0.44
2:U:113:PRO:HG3	2:U:318:PRO:HB3	1.98	0.44
3:V:251:LEU:HD23	3:V:254:TRP:CE3	2.44	0.44
3:V:339:LEU:HD22	3:V:422:PHE:CE2	2.45	0.44
3:V:345:ARG:C	3:V:347:PHE:H	2.25	0.44
3:Y:197:ALA:C	3:Y:324:LEU:HD11	2.42	0.44
2:a:100:LEU:O	2:a:312:ALA:N	2.34	0.44
2:a:298:CYS:HB3	2:a:315:ILE:HG23	1.98	0.44
3:b:194:CYS:O	3:b:198:TYR:CD2	2.71	0.44
2:c:100:LEU:HD12	2:c:314:VAL:HG21	1.99	0.44
2:c:197:SER:O	2:c:200:THR:HG22	2.17	0.44
2:d:121:PHE:HE1	2:d:186:LEU:HB3	1.83	0.44
1:G:411:PRO:O	1:G:415:ARG:N	2.50	0.44
1:G:544:HIS:CD2	1:G:546:ALA:HB3	2.52	0.44
1:G:908:LEU:O	1:G:931:GLY:HA2	2.18	0.44
1:G:1347:ARG:C	1:G:1348:ASP:CG	2.86	0.44
1:A:301:ASP:OD1	1:A:360:THR:HG22	2.16	0.44
1:A:871:VAL:HG13	4:h:107:LYS:NZ	2.32	0.44
1:A:1287:ARG:NH1	1:A:1287:ARG:HG2	2.28	0.44
1:B:231:SER:C	1:B:233:PHE:N	2.74	0.44
1:B:1080:VAL:CG1	1:B:1091:PHE:HA	2.47	0.44
1:C:681:ASP:OD1	1:C:681:ASP:N	2.49	0.44
1:D:157:ARG:NE	1:M:50:TYR:O	2.51	0.44
1:D:407:GLY:HA2	1:D:437:PRO:O	2.17	0.44
1:D:461:VAL:CG1	1:D:1036:LEU:CD2	2.95	0.44
1:D:897:LEU:O	1:D:901:MET:HE2	2.18	0.44
1:D:1297:GLY:HA2	1:D:1322:GLU:HG3	1.99	0.44
1:E:509:TRP:O	1:E:513:LEU:CB	2.66	0.44
1:E:541:LEU:HD13	1:E:571:ILE:HD12	1.99	0.44
1:E:633:ALA:HB2	1:E:839:LEU:CD1	2.48	0.44
1:E:764:VAL:HG13	1:E:782:ARG:NE	2.25	0.44
1:F:472:ALA:HA	1:F:1250:PHE:HB3	1.98	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:485:ASN:ND2	1:H:485:ASN:C	2.72	0.44
1:H:487:TYR:CD2	1:H:520:TRP:CH2	3.02	0.44
1:H:700:LEU:HD13	1:H:815:VAL:HG11	1.99	0.44
1:H:729:PRO:C	1:H:745:HIS:CE1	2.87	0.44
1:I:114:GLN:HG3	1:J:133:PHE:HA	2.00	0.44
1:I:148:LEU:HD11	1:I:158:GLN:OE1	2.16	0.44
1:I:785:HIS:O	1:I:785:HIS:CG	2.70	0.44
1:J:149:ASP:OD1	1:J:151:THR:HG22	2.18	0.44
1:J:631:GLN:CD	1:J:937:VAL:HG23	2.42	0.44
1:J:722:LEU:O	1:J:1030:LYS:HD3	2.18	0.44
1:K:198:LEU:CD2	1:K:254:ALA:HB1	2.46	0.44
1:K:454:MET:O	1:K:1040:LEU:HD22	2.17	0.44
1:K:589:VAL:CG1	1:K:593:ASP:OD2	2.66	0.44
1:K:841:ASN:CG	4:p:57:GLN:HE22	2.25	0.44
1:K:903:GLU:HG2	1:K:904:ARG:HG2	1.99	0.44
1:K:1290:GLU:HA	1:K:1290:GLU:OE1	2.17	0.44
1:L:125:ASP:O	1:L:1098:GLY:HA2	2.18	0.44
1:L:778:ARG:NE	1:L:780:ASP:OD1	2.51	0.44
1:M:616:GLY:O	1:M:620:ASP:HB2	2.18	0.44
1:M:724:HIS:CE1	1:M:1028:TYR:HB2	2.52	0.44
1:M:933:LEU:HG	1:M:960:VAL:HG11	1.98	0.44
1:M:1198:TYR:O	1:M:1199:PHE:CB	2.66	0.44
1:M:1201:ARG:CG	1:M:1202:PRO:CD	2.88	0.44
1:N:531:PHE:O	1:N:1240:ALA:N	2.45	0.44
1:N:1031:MET:HE2	1:N:1048:PHE:CE2	2.50	0.44
1:N:1221:ASP:C	1:N:1222:VAL:O	2.50	0.44
1:O:395:VAL:O	1:O:395:VAL:HG13	2.16	0.44
1:O:517:ARG:HH11	1:P:711:GLY:HA2	1.83	0.44
1:O:817:VAL:HG11	1:O:964:PHE:HE1	1.83	0.44
1:O:1196:ILE:O	1:O:1200:ARG:HG3	2.17	0.44
1:P:135:LEU:HD23	1:P:135:LEU:HA	1.79	0.44
2:Q:105:PRO:HG3	2:Q:186:LEU:CD2	2.47	0.44
2:Q:221:LEU:HD22	2:Q:253:LEU:HA	2.00	0.44
2:R:121:PHE:HE1	2:R:186:LEU:HB3	1.83	0.44
2:U:13:PRO:HG2	2:U:133:LEU:CD1	2.48	0.44
2:U:32:VAL:CG2	2:U:75:ILE:HD11	2.47	0.44
3:Y:300:LEU:CD1	3:Y:333:GLN:H	2.31	0.44
2:Z:80:PRO:C	2:Z:81:THR:HG1	2.22	0.44
2:Z:179:LEU:HD22	2:Z:186:LEU:CD2	2.46	0.44
2:Z:197:SER:O	2:Z:200:THR:HG22	2.17	0.44
2:a:18:ARG:HA	2:a:19:PRO:C	2.42	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:c:106:VAL:HG13	2:c:305:VAL:HG12	1.99	0.44
2:c:272:TYR:CD2	2:d:161:ARG:HD3	2.52	0.44
2:d:103:THR:O	2:d:141:VAL:HG13	2.17	0.44
3:e:262:SER:O	3:e:262:SER:OG	2.32	0.44
4:l:104:ARG:O	4:l:106:PRO:CD	2.65	0.44
1:G:438:ARG:CB	1:G:454:MET:HE3	2.39	0.44
1:A:380:LEU:C	1:A:381:GLU:HG2	2.41	0.44
1:A:730:ALA:HA	1:A:745:HIS:CE1	2.53	0.44
1:A:1063:VAL:HG12	1:A:1064:LEU:H	1.83	0.44
1:B:375:VAL:HG12	1:B:376:PHE:N	2.33	0.44
1:B:836:TYR:O	1:B:840:GLN:HG2	2.17	0.44
1:B:1133:ARG:CZ	1:B:1165:VAL:O	2.53	0.44
1:B:1291:ARG:O	1:B:1294:VAL:HG22	2.18	0.44
1:C:166:ALA:HA	1:C:169:VAL:HG12	1.97	0.44
1:C:267:ALA:HB1	1:C:274:VAL:N	2.31	0.44
1:C:1155:ASN:HB2	1:C:1158:GLY:HA3	1.99	0.44
1:D:77:VAL:CG2	1:D:266:HIS:CE1	2.99	0.44
1:D:78:ALA:HB2	1:D:277:VAL:HG21	2.00	0.44
1:D:248:LEU:HG	1:D:370:ILE:HD13	1.99	0.44
1:E:873:ASN:OD1	4:l:92:PHE:CA	2.66	0.44
1:E:1128:ASN:HD22	1:E:1158:GLY:HA2	1.83	0.44
1:F:501:MET:HE2	1:F:958:LEU:CD1	2.45	0.44
1:F:754:CYS:HA	1:F:910:CYS:HA	1.98	0.44
1:F:872:ALA:H	4:g:107:LYS:HE2	1.83	0.44
1:F:1143:ALA:O	1:F:1147:LEU:HB2	2.18	0.44
1:H:618:PHE:HA	1:H:940:MET:HB3	1.99	0.44
1:H:1049:GLY:O	1:H:1190:THR:N	2.41	0.44
1:I:831:ARG:O	1:I:835:VAL:HG23	2.18	0.44
1:I:1350:GLU:HB2	1:I:1364:TYR:CZ	2.52	0.44
1:I:1369:LEU:HD13	1:I:1372:LEU:HD12	1.99	0.44
1:J:77:VAL:HG11	1:J:277:VAL:HG13	1.91	0.44
1:J:591:PHE:CZ	1:J:1045:HIS:CG	3.01	0.44
1:J:606:MET:HE2	1:J:696:HIS:CD2	2.52	0.44
1:J:1156:ARG:NH1	1:J:1182:ASP:OD2	2.51	0.44
1:J:1261:TYR:O	1:J:1262:HIS:CD2	2.70	0.44
1:K:784:LEU:HD12	1:K:903:GLU:CD	2.43	0.44
1:L:189:LEU:HD12	1:L:1064:LEU:CD2	2.47	0.44
1:L:527:THR:C	1:L:529:GLU:H	2.25	0.44
1:L:565:PRO:HG2	1:L:565:PRO:O	2.17	0.44
1:L:696:HIS:CE1	1:L:1021:THR:HG21	2.52	0.44
1:L:817:VAL:HG11	1:L:938:LEU:HD21	1.99	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:864:PRO:HG3	1:L:888:GLY:HA2	1.99	0.44
1:L:1188:ILE:HD11	1:L:1273:CYS:SG	2.58	0.44
1:M:11:TYR:CE2	1:M:13:TYR:CD1	3.05	0.44
1:M:69:ARG:HH22	3:e:42:ALA:H	1.66	0.44
1:M:950:GLN:O	1:M:953:GLU:HG3	2.18	0.44
1:N:80:VAL:HG22	1:N:264:LEU:HD23	1.98	0.44
1:N:201:MET:HE2	1:N:1290:GLU:OE2	2.17	0.44
1:N:281:THR:O	1:N:284:ILE:N	2.50	0.44
1:N:321:VAL:CA	1:O:12:ARG:HD2	2.47	0.44
1:N:724:HIS:CD2	1:N:726:MET:H	2.35	0.44
1:N:811:ILE:O	1:N:815:VAL:HB	2.17	0.44
1:N:826:CYS:SG	1:N:959:PRO:HG3	2.57	0.44
1:N:871:VAL:HG12	1:N:872:ALA:H	1.83	0.44
1:O:543:LEU:HD23	1:O:1250:PHE:O	2.16	0.44
1:O:544:HIS:ND1	1:O:1252:TYR:CG	2.85	0.44
1:O:736:VAL:O	1:O:934:HIS:O	2.36	0.44
1:O:840:GLN:OE1	4:s:58:ALA:HA	2.18	0.44
1:P:118:ASN:ND2	1:P:118:ASN:N	2.66	0.44
2:Q:10:ILE:O	2:Q:83:ILE:N	2.47	0.44
3:S:168:SER:C	3:S:223:ARG:CD	2.91	0.44
3:S:246:ARG:HG2	3:S:247:PHE:N	2.33	0.44
2:T:100:LEU:HG	2:T:314:VAL:HG21	1.99	0.44
2:W:189:VAL:HG13	2:W:191:ASP:H	1.81	0.44
2:W:197:SER:O	2:W:200:THR:HG22	2.17	0.44
3:Y:428:MET:O	3:Y:430:ASP:N	2.40	0.44
2:Z:123:GLY:C	2:Z:124:GLN:HE21	2.26	0.44
2:Z:218:THR:HA	2:Z:221:LEU:HG	1.97	0.44
2:Z:299:THR:HG22	2:Z:313:PRO:HG2	2.00	0.44
2:a:94:HIS:ND1	2:a:98:VAL:CG1	2.81	0.44
3:b:302:LEU:HD23	3:b:302:LEU:H	1.77	0.44
3:e:121:GLN:CB	3:e:215:TYR:CD2	3.01	0.44
3:e:279:PRO:CB	3:e:284:SER:N	2.81	0.44
4:f:8:ARG:HA	4:f:9:PRO:HA	1.16	0.44
4:g:22:MET:HA	4:g:25:LEU:HD12	2.00	0.44
1:G:469:ILE:CD1	1:G:473:VAL:HB	2.48	0.44
1:G:532:MET:HE3	1:G:534:PRO:CG	2.41	0.44
1:G:1302:THR:O	1:G:1313:ARG:HB2	2.18	0.44
1:B:232:PHE:CE1	1:B:1115:VAL:HG22	2.53	0.44
1:B:624:PRO:HG2	1:B:627:PHE:CD2	2.53	0.44
1:C:321:VAL:O	1:C:323:GLY:N	2.47	0.44
1:C:532:MET:HE3	1:C:534:PRO:CG	2.44	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:873:ASN:ND2	4:j:92:PHE:CB	2.81	0.44
1:C:1364:TYR:CG	1:C:1365:ASP:N	2.84	0.44
1:D:318:THR:O	1:D:323:GLY:N	2.50	0.44
1:D:842:MET:CG	4:j:61:LEU:CD2	2.96	0.44
1:E:74:GLY:O	1:E:77:VAL:HG12	2.17	0.44
1:E:606:MET:H	1:E:1018:ASN:ND2	2.15	0.44
1:E:627:PHE:CE1	1:E:651:CYS:HB3	2.53	0.44
1:E:911:SER:HB3	1:E:929:PHE:CD1	2.52	0.44
1:F:78:ALA:N	1:F:1068:ARG:O	2.50	0.44
1:F:631:GLN:NE2	1:F:667:ASP:HB2	2.32	0.44
1:F:1026:ALA:HA	1:F:1029:PHE:CE2	2.53	0.44
1:F:1037:TYR:HE2	1:F:1151:VAL:CG2	2.31	0.44
1:F:1054:ARG:NH1	1:F:1123:GLY:CA	2.81	0.44
1:H:13:TYR:C	1:H:15:ALA:H	2.24	0.44
1:H:141:ALA:O	1:H:146:GLU:OE1	2.36	0.44
1:H:724:HIS:CD2	1:H:726:MET:HB2	2.52	0.44
1:H:1054:ARG:O	1:H:1054:ARG:HG3	2.18	0.44
1:H:1278:THR:OG1	1:H:1282:ILE:HD12	2.18	0.44
1:I:293:LEU:O	1:I:295:VAL:HG13	2.18	0.44
1:I:707:PHE:O	1:I:1038:HIS:HB3	2.17	0.44
1:I:907:ALA:HA	1:I:933:LEU:HD23	1.99	0.44
1:J:264:LEU:HD23	1:J:266:HIS:CD2	2.52	0.44
1:J:457:ALA:HB1	1:J:1050:PHE:CE2	2.52	0.44
1:J:805:TRP:CE2	1:J:809:HIS:HE1	2.35	0.44
1:J:827:THR:HG21	1:J:960:VAL:HG22	2.00	0.44
1:J:1161:GLN:HB2	1:J:1162:PRO:HD2	1.99	0.44
1:K:1070:SER:HB2	1:K:1107:THR:CG2	2.19	0.44
1:L:303:PRO:HG3	1:L:363:VAL:CG1	2.48	0.44
1:M:606:MET:H	1:M:1018:ASN:ND2	2.15	0.44
1:M:666:ASN:CB	1:M:940:MET:CE	2.73	0.44
1:M:1181:GLN:HE21	1:M:1310:GLN:HA	1.82	0.44
1:N:189:LEU:CG	1:N:1064:LEU:CD2	2.96	0.44
1:N:520:TRP:CH2	1:N:988:PRO:HD2	2.53	0.44
1:O:189:LEU:HD12	1:O:1064:LEU:HD22	1.99	0.44
1:P:377:LEU:HD12	1:P:378:GLU:H	1.82	0.44
1:P:815:VAL:HG22	1:P:1028:TYR:HE2	1.82	0.44
3:S:161:TRP:CZ3	3:S:165:LEU:CB	2.97	0.44
2:T:195:LEU:O	2:T:199:ASN:ND2	2.46	0.44
2:T:295:VAL:HG12	2:T:315:ILE:O	2.15	0.44
2:U:147:LEU:HD12	2:U:181:TYR:CD1	2.52	0.44
3:V:204:ALA:N	3:V:294:VAL:HG21	2.33	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:V:300:LEU:CD1	3:V:333:GLN:N	2.81	0.44
2:X:61:LEU:HD21	2:X:155:LEU:HB3	2.00	0.44
3:Y:211:ILE:HG23	3:Y:215:TYR:HB2	1.99	0.44
2:Z:90:LEU:HA	2:Z:90:LEU:HD23	1.83	0.44
2:a:93:THR:CB	2:a:316:ARG:HH21	2.29	0.44
3:b:124:ALA:HB1	3:b:214:ASN:HB3	0.54	0.44
3:b:189:PHE:CD2	3:b:189:PHE:O	2.70	0.44
2:d:13:PRO:HG2	2:d:133:LEU:CD1	2.48	0.44
2:d:147:LEU:HD12	2:d:181:TYR:CD1	2.52	0.44
1:G:44:SER:HA	1:G:48:SER:HB3	1.97	0.44
1:G:380:LEU:O	1:G:380:LEU:HD12	2.18	0.44
1:G:520:TRP:CD2	1:G:520:TRP:O	2.70	0.44
1:G:582:LEU:HB2	1:G:583:PRO:HD2	1.98	0.44
1:G:1048:PHE:HA	1:G:1192:VAL:HG13	2.00	0.44
1:A:234:LEU:HB3	1:A:1113:ALA:HB1	1.99	0.44
1:A:531:PHE:CE2	1:A:1194:THR:HG22	2.53	0.44
1:A:1042:THR:HG22	1:A:1042:THR:O	2.18	0.44
1:B:226:SER:HA	1:B:229:ASP:HB3	2.00	0.44
1:B:1278:THR:CG2	1:B:1282:ILE:HD12	2.47	0.44
1:C:77:VAL:HG23	1:C:266:HIS:HB3	2.00	0.44
1:C:85:PRO:HD2	1:C:309:MET:O	2.18	0.44
1:C:102:PRO:HD2	1:D:387:ALA:HB3	1.99	0.44
1:C:402:PHE:HA	1:C:1332:TYR:O	2.18	0.44
1:C:509:TRP:O	1:C:513:LEU:CB	2.66	0.44
1:C:1020:LEU:HD12	1:C:1020:LEU:O	2.17	0.44
1:C:1201:ARG:H	1:C:1333:PRO:HG2	1.82	0.44
1:D:94:ARG:HE	1:D:94:ARG:HB2	1.72	0.44
1:D:195:LEU:N	1:D:1110:ALA:O	2.46	0.44
1:D:553:VAL:HG21	1:D:556:VAL:HB	2.00	0.44
1:D:713:GLU:HG2	1:D:718:ALA:HA	1.99	0.44
1:D:845:PRO:HG3	1:D:869:ASN:OD1	2.18	0.44
1:D:1063:VAL:CG2	1:D:1111:ALA:HB3	2.47	0.44
1:E:451:ARG:O	1:E:1124:ASN:OD1	2.36	0.44
1:E:1233:ASP:HB2	1:E:1240:ALA:O	2.18	0.44
1:F:593:ASP:OD2	1:F:1013:SER:HB2	2.17	0.44
1:F:958:LEU:CG	1:F:994:LEU:HD11	2.47	0.44
1:H:752:ARG:HE	1:H:927:ARG:CZ	2.30	0.44
1:I:269:THR:O	1:I:269:THR:OG1	2.31	0.44
1:I:920:THR:HG22	1:I:1138:LEU:HD23	1.99	0.44
1:I:1320:LEU:HD23	1:I:1320:LEU:HA	1.46	0.44
1:J:89:TYR:CD1	1:J:89:TYR:N	2.85	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:394:LEU:HD22	1:J:1064:LEU:N	2.33	0.44
1:J:490:TYR:CD2	1:J:564:PRO:HD3	2.52	0.44
1:J:750:ARG:CD	1:J:915:ASP:HA	2.46	0.44
1:J:944:HIS:CG	1:J:944:HIS:O	2.71	0.44
1:K:104:ILE:HG21	1:K:104:ILE:HD13	1.57	0.44
1:K:148:LEU:HD22	1:K:158:GLN:OE1	2.17	0.44
1:K:184:MET:HE2	1:K:184:MET:HB2	1.78	0.44
1:K:327:ARG:O	1:K:328:SER:OG	2.33	0.44
1:K:490:TYR:HE1	1:K:556:VAL:HG11	1.83	0.44
1:K:523:GLU:OE1	1:K:584:LEU:CD1	2.50	0.44
1:K:803:ALA:C	1:K:806:THR:HG22	2.43	0.44
1:L:498:GLY:HA2	1:L:501:MET:HB2	2.00	0.44
1:L:536:ASN:C	1:L:538:ASN:H	2.26	0.44
1:L:1232:SER:HB2	1:L:1237:PRO:O	2.17	0.44
1:L:1367:SER:O	1:L:1370:LYS:HG2	2.18	0.44
1:M:26:THR:C	1:M:27:ILE:HG23	2.43	0.44
1:M:263:ARG:C	1:M:265:THR:H	2.26	0.44
1:M:408:LEU:HD11	1:M:1194:THR:OG1	2.17	0.44
1:M:741:GLY:O	1:M:745:HIS:CD2	2.71	0.44
1:M:861:PRO:HA	1:M:866:HIS:CG	2.53	0.44
1:N:873:ASN:CG	4:s:92:PHE:CB	2.91	0.44
1:O:49:LEU:HD12	1:O:50:TYR:CE1	2.52	0.44
1:O:347:ASN:OD1	1:P:163:GLN:O	2.34	0.44
1:O:530:GLN:C	1:O:536:ASN:HD21	2.05	0.44
1:O:742:LEU:HD22	1:O:765:TYR:OH	2.17	0.44
1:P:125:ASP:OD1	1:P:125:ASP:N	2.50	0.44
1:P:135:LEU:HB3	1:P:140:ILE:HG22	1.99	0.44
1:P:241:ARG:HA	1:P:292:PHE:CZ	2.49	0.44
1:P:1039:GLN:HB3	1:P:1044:LEU:HB3	2.00	0.44
1:P:1354:ARG:NH2	1:P:1357:HIS:HD2	2.15	0.44
3:S:278:HIS:O	3:S:285:ALA:CA	2.50	0.44
2:T:295:VAL:HG12	2:T:296:ARG:H	1.83	0.44
2:U:61:LEU:HD21	2:U:155:LEU:HB3	2.00	0.44
3:V:191:VAL:HG22	3:V:295:ASP:OD2	2.16	0.44
3:V:243:GLU:O	3:V:244:VAL:CG2	2.65	0.44
2:W:221:LEU:HD22	2:W:253:LEU:HA	1.99	0.44
3:Y:148:ALA:CB	3:Y:154:THR:CG2	2.96	0.44
2:Z:218:THR:CA	2:Z:221:LEU:HD21	2.40	0.44
2:Z:228:LEU:HD12	2:Z:228:LEU:N	2.33	0.44
2:a:22:ALA:O	2:a:26:ARG:NH2	2.51	0.44
2:a:246:VAL:O	2:a:247:THR:C	2.60	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:b:243:GLU:O	3:b:244:VAL:CG2	2.65	0.44
3:b:279:PRO:HG2	3:b:283:CYS:N	2.32	0.44
3:b:296:LEU:C	3:b:296:LEU:CD1	2.85	0.44
2:c:10:ILE:O	2:c:83:ILE:N	2.47	0.44
2:c:100:LEU:HG	2:c:314:VAL:HG21	1.99	0.44
2:d:316:ARG:HG2	2:d:317:TYR:H	1.82	0.44
3:e:246:ARG:HG2	3:e:247:PHE:N	2.33	0.44
4:r:22:MET:HE2	4:r:25:LEU:CD1	2.48	0.44
4:s:107:LYS:HB3	4:s:107:LYS:HE3	1.78	0.44
1:G:289:LEU:HD21	1:G:366:ASP:OD2	2.18	0.44
1:G:1165:VAL:HB	2:Q:281:HIS:CD2	2.53	0.44
1:G:1188:ILE:HG21	1:G:1246:ALA:HB2	2.00	0.44
1:G:1285:LYS:HE2	1:G:1326:GLY:C	2.43	0.44
1:A:124:ILE:HG22	1:A:125:ASP:N	2.33	0.44
1:A:417:ALA:N	1:B:424:VAL:O	2.50	0.44
1:A:485:ASN:O	1:A:487:TYR:N	2.46	0.44
1:A:542:GLU:CD	1:A:576:ARG:HH22	2.25	0.44
1:A:840:GLN:CD	4:g:58:ALA:HA	2.43	0.44
1:A:892:LEU:HD21	4:g:65:GLY:CA	2.48	0.44
1:A:1300:VAL:HG11	1:A:1313:ARG:CD	2.48	0.44
1:A:1300:VAL:HG11	1:A:1313:ARG:CZ	2.48	0.44
1:B:24:LEU:HD12	1:B:24:LEU:HA	1.74	0.44
1:B:91:ASN:O	1:B:126:ARG:NH1	2.51	0.44
1:B:281:THR:HG23	1:B:283:ALA:H	1.82	0.44
1:B:314:ALA:O	1:B:318:THR:OG1	2.21	0.44
1:B:392:TYR:CZ	1:B:394:LEU:HB2	2.53	0.44
1:B:960:VAL:HG23	1:B:961:HIS:H	1.83	0.44
1:C:309:MET:CE	1:C:1074:PHE:CD1	2.96	0.44
1:C:903:GLU:HG2	1:C:904:ARG:N	2.33	0.44
1:C:1115:VAL:CB	1:C:1374:LEU:HD11	2.47	0.44
1:D:28:GLU:HA	1:L:101:GLN:NE2	2.33	0.44
1:D:34:ARG:CD	1:L:1288:CYS:SG	3.00	0.44
1:D:416:PHE:CE1	1:E:1341:ALA:HB2	2.53	0.44
1:D:437:PRO:HB3	1:D:1338:SER:HB2	2.00	0.44
1:D:838:THR:OG1	1:D:954:TYR:OH	2.22	0.44
1:E:905:THR:HG23	1:E:956:TYR:OH	2.17	0.44
1:E:1017:GLU:OE1	1:E:1017:GLU:N	2.48	0.44
1:E:1083:HIS:O	1:E:1083:HIS:CD2	2.71	0.44
1:E:1123:GLY:O	1:E:1185:CYS:SG	2.76	0.44
1:F:548:ASP:O	1:F:573:ALA:HA	2.18	0.44
1:F:670:LEU:O	1:F:673:TYR:N	2.51	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1199:PHE:O	1:F:1200:ARG:CG	2.66	0.44
1:F:1199:PHE:O	1:F:1200:ARG:HG3	2.17	0.44
1:H:439:GLN:HG2	1:H:451:ARG:HH21	1.82	0.44
1:H:622:SER:OG	1:I:675:VAL:O	2.36	0.44
1:H:817:VAL:HB	1:H:818:PRO:HD3	1.98	0.44
1:H:1054:ARG:NH1	1:H:1122:MET:O	2.50	0.44
1:I:837:ALA:HB1	4:o:95:LYS:CB	2.47	0.44
1:I:903:GLU:HG2	1:I:904:ARG:H	1.82	0.44
1:I:920:THR:CG2	1:I:1138:LEU:HD23	2.48	0.44
1:I:1177:MET:HB2	1:I:1177:MET:HE3	1.61	0.44
1:J:71:LEU:HA	1:J:76:SER:HB2	0.53	0.44
1:J:368:VAL:CG2	1:J:377:LEU:HB2	2.48	0.44
1:J:422:ASP:N	1:J:424:VAL:HG23	2.31	0.44
1:J:527:THR:OG1	1:J:585:ALA:O	2.27	0.44
1:J:533:GLN:CB	1:J:534:PRO:HD2	2.47	0.44
1:J:775:ASP:O	1:J:903:GLU:HB2	2.18	0.44
1:J:1129:PHE:CZ	1:J:1256:LEU:HD13	2.52	0.44
1:J:1251:SER:H	1:J:1254:ASP:HB3	1.83	0.44
1:L:264:LEU:HD23	1:L:266:HIS:CD2	2.52	0.44
1:L:532:MET:HG3	1:L:534:PRO:HD2	2.00	0.44
1:M:293:LEU:HD11	1:M:377:LEU:CD1	2.48	0.44
1:M:552:GLY:N	1:M:570:ALA:O	2.51	0.44
1:M:706:ASP:O	1:M:1042:THR:HG21	2.18	0.44
1:M:737:TRP:HZ3	1:M:935:ALA:HB1	1.81	0.44
1:M:1084:GLU:O	1:M:1085:THR:HG23	2.17	0.44
1:N:77:VAL:O	1:N:1068:ARG:O	2.36	0.44
1:N:1113:ALA:O	1:N:1114:THR:HG22	2.18	0.44
1:O:233:PHE:HE2	1:O:244:ILE:HD13	1.82	0.44
1:O:452:LEU:HD23	1:O:456:ASN:ND2	2.32	0.44
1:O:554:ALA:HB3	1:O:555:ASP:OD1	2.17	0.44
1:O:816:LEU:HD13	1:O:816:LEU:HA	1.83	0.44
1:P:679:GLY:HA2	1:P:687:MET:HE2	1.99	0.44
1:P:1018:ASN:O	1:P:1022:TYR:HD2	2.00	0.44
1:P:1278:THR:O	1:P:1279:ALA:CB	2.66	0.44
2:T:36:THR:HG22	2:U:110:ASN:HD22	1.82	0.44
2:T:211:TYR:CD1	2:U:241:LEU:HD23	2.53	0.44
2:U:121:PHE:HE1	2:U:186:LEU:HB3	1.83	0.44
2:W:289:LEU:HD23	2:W:289:LEU:HA	1.75	0.44
2:X:147:LEU:HD12	2:X:181:TYR:CD1	2.52	0.44
2:Z:295:VAL:HG12	2:Z:315:ILE:O	2.08	0.44
2:a:193:GLN:HG3	2:a:198:VAL:CG2	2.48	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:d:159:GLY:HA2	2:d:193:GLN:HG2	1.99	0.44
3:e:197:ALA:C	3:e:324:LEU:HD11	2.42	0.44
4:g:44:HIS:HD2	4:g:47:GLN:O	1.98	0.44
4:h:18:ARG:O	4:h:20:LEU:HD13	2.18	0.44
4:m:86:GLU:H	4:m:105:ASP:CB	2.31	0.44
4:o:22:MET:HA	4:o:25:LEU:HD12	2.00	0.44
4:p:32:ALA:O	4:q:99:SER:CB	2.66	0.44
4:r:9:PRO:CB	4:r:17:VAL:CB	2.95	0.44
4:s:22:MET:HA	4:s:25:LEU:HD12	2.00	0.44
1:G:395:VAL:HG21	1:G:1116:ARG:HH21	1.83	0.44
1:G:830:VAL:O	1:G:832:PHE:CD1	2.71	0.44
1:A:180:THR:O	1:A:184:MET:HG2	2.17	0.44
1:A:280:THR:HG22	1:A:281:THR:H	1.83	0.44
1:A:574:THR:HG21	1:A:998:TYR:O	2.18	0.44
1:A:737:TRP:CZ3	1:A:935:ALA:HB1	2.52	0.44
1:A:1020:LEU:O	1:A:1020:LEU:HD12	2.17	0.44
1:A:1300:VAL:CG1	1:A:1313:ARG:HD2	2.46	0.44
1:B:198:LEU:HD11	1:B:202:GLN:HE21	1.82	0.44
1:B:815:VAL:HA	1:B:1024:LEU:CD2	2.48	0.44
1:C:256:GLN:HG3	1:M:25:SER:HB3	2.00	0.44
1:C:960:VAL:HG12	1:C:994:LEU:HD13	2.00	0.44
1:D:116:VAL:HG12	1:I:43:ARG:HD2	2.00	0.44
1:D:1168:CYS:C	1:D:1170:GLN:H	2.24	0.44
1:D:1259:GLY:H	1:D:1278:THR:HG23	1.83	0.44
1:E:709:LEU:HD11	1:E:1041:LYS:HB2	2.00	0.44
1:E:1291:ARG:O	1:E:1294:VAL:HG22	2.18	0.44
1:F:487:TYR:HH	1:F:990:VAL:H	1.59	0.44
1:H:11:TYR:HB2	1:H:38:PHE:CE2	2.52	0.44
1:H:734:PRO:HB3	1:H:960:VAL:HG21	1.99	0.44
1:H:1051:THR:CG2	1:H:1188:ILE:HB	2.48	0.44
1:I:69:ARG:CD	3:Y:42:ALA:HB3	2.48	0.44
1:I:304:VAL:HG23	1:I:305:THR:H	1.81	0.44
1:I:400:LEU:CD2	1:I:1324:PRO:CG	2.96	0.44
1:I:1166:PHE:CE1	2:W:284:GLN:CG	3.01	0.44
1:J:95:VAL:HG21	1:J:1100:VAL:HG21	2.00	0.44
1:J:129:LEU:HD21	1:J:183:GLN:OE1	2.18	0.44
1:J:297:ASP:OD1	1:J:297:ASP:N	2.51	0.44
1:K:826:CYS:HB2	1:K:966:GLY:H	1.83	0.44
1:K:946:ASP:HB3	1:L:676:THR:HG22	1.99	0.44
1:L:697:VAL:HG12	1:L:808:HIS:HD2	1.83	0.44
1:M:47:ASN:HD22	3:Y:276:THR:HG22	1.61	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:729:PRO:O	1:M:730:ALA:C	2.60	0.44
1:N:104:ILE:HD12	1:O:390:VAL:HG21	2.00	0.44
1:N:982:ASP:OD2	1:O:718:ALA:HB1	2.18	0.44
1:P:627:PHE:CE1	1:P:651:CYS:HB3	2.53	0.44
1:P:1107:THR:O	1:P:1108:ALA:HB2	2.17	0.44
1:P:1346:ALA:HB2	1:P:1362:LEU:HD11	1.99	0.44
2:Q:100:LEU:HD12	2:Q:314:VAL:HG21	1.99	0.44
2:Q:197:SER:O	2:Q:200:THR:HG22	2.17	0.44
2:R:164:ASN:O	2:R:165:PRO:C	2.61	0.44
3:S:108:TYR:OH	3:S:110:LEU:CD2	2.65	0.44
3:S:345:ARG:C	3:S:347:PHE:H	2.25	0.44
2:T:228:LEU:HD23	2:T:238:ASN:HA	2.00	0.44
2:U:38:ARG:NE	3:V:305:PRO:O	2.50	0.44
2:U:193:GLN:HG3	2:U:198:VAL:CG2	2.48	0.44
2:W:12:ILE:HD11	2:W:83:ILE:HG13	1.98	0.44
2:W:36:THR:HG22	2:X:110:ASN:HD22	1.82	0.44
2:W:211:TYR:CD1	2:X:241:LEU:HD23	2.53	0.44
2:W:227:LEU:CD1	2:W:228:LEU:HD11	2.24	0.44
2:X:193:GLN:HG3	2:X:198:VAL:CG2	2.48	0.44
2:X:295:VAL:CG2	2:X:314:VAL:CG1	2.96	0.44
2:Z:10:ILE:O	2:Z:83:ILE:N	2.47	0.44
2:Z:180:TYR:CD1	2:Z:180:TYR:N	2.73	0.44
2:Z:295:VAL:HG12	2:Z:315:ILE:H	1.83	0.44
3:b:220:ALA:N	3:b:223:ARG:HH21	2.16	0.44
2:c:36:THR:HG22	2:d:110:ASN:HD22	1.82	0.44
2:d:32:VAL:CG2	2:d:75:ILE:HD11	2.47	0.44
3:e:300:LEU:HD12	3:e:333:GLN:H	1.68	0.44
3:e:428:MET:O	3:e:430:ASP:N	2.40	0.44
4:f:22:MET:HE2	4:f:25:LEU:CD1	2.48	0.44
4:i:44:HIS:HD2	4:i:47:GLN:O	1.98	0.44
4:j:9:PRO:HB3	4:j:17:VAL:CB	2.45	0.44
4:s:22:MET:HE2	4:s:25:LEU:CD1	2.48	0.44
1:G:293:LEU:HD21	1:G:370:ILE:CD1	2.48	0.43
1:G:381:GLU:OE2	1:G:392:TYR:CD2	2.71	0.43
1:G:469:ILE:C	1:G:469:ILE:CD1	2.85	0.43
1:G:485:ASN:O	1:G:485:ASN:OD1	2.36	0.43
1:G:535:ASP:C	1:G:537:ALA:N	2.71	0.43
1:G:742:LEU:HA	1:G:745:HIS:NE2	2.33	0.43
1:G:754:CYS:HA	1:G:910:CYS:SG	2.58	0.43
1:G:1051:THR:CG2	1:G:1188:ILE:HB	2.48	0.43
1:G:1204:ASN:OD1	1:G:1206:ARG:HG2	2.17	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:677:TYR:OH	1:F:946:ASP:HA	2.18	0.43
1:A:836:TYR:CZ	1:A:901:MET:HB2	2.53	0.43
1:A:871:VAL:HG13	4:h:107:LYS:HZ1	1.81	0.43
1:B:203:ARG:HB2	1:C:1116:ARG:NH2	2.33	0.43
1:B:380:LEU:HD12	1:B:392:TYR:HE1	1.83	0.43
1:B:1195:ASP:OD1	1:B:1195:ASP:N	2.47	0.43
1:B:1298:SER:HB2	1:B:1320:LEU:HD22	1.99	0.43
1:C:298:THR:HB	1:C:299:GLU:H	1.58	0.43
1:C:440:LEU:HD23	1:C:452:LEU:HD12	2.00	0.43
1:C:530:GLN:OE1	1:C:585:ALA:HB3	2.18	0.43
1:C:811:ILE:O	1:C:815:VAL:HB	2.17	0.43
1:C:1340:PRO:HB2	1:C:1344:ARG:HH12	1.82	0.43
1:D:405:PRO:O	1:D:440:LEU:HD22	2.17	0.43
1:D:805:TRP:CE2	1:D:809:HIS:HE1	2.36	0.43
1:D:805:TRP:O	1:D:809:HIS:ND1	2.37	0.43
1:D:1059:VAL:HG23	1:D:1119:VAL:CG2	2.48	0.43
1:D:1082:ARG:HH21	1:D:1082:ARG:HG2	1.83	0.43
1:E:79:CYS:HB3	1:E:184:MET:HE1	1.98	0.43
1:E:403:VAL:HA	1:E:1052:VAL:O	2.17	0.43
1:E:700:LEU:HD13	1:E:815:VAL:HG11	1.99	0.43
1:E:738:ASP:HB3	1:E:787:THR:HG23	1.99	0.43
1:F:203:ARG:HH22	1:F:222:GLU:CD	2.26	0.43
1:F:829:GLY:O	1:F:955:PHE:HA	2.18	0.43
1:H:247:TRP:HE3	1:H:248:LEU:HD22	1.81	0.43
1:H:604:HIS:HD2	1:H:696:HIS:CD2	2.36	0.43
1:H:797:ASP:OD1	1:H:798:ARG:N	2.46	0.43
1:H:864:PRO:HG3	1:H:888:GLY:HA2	2.00	0.43
1:H:960:VAL:HA	1:H:994:LEU:HD13	2.00	0.43
1:H:1064:LEU:HD13	1:H:1110:ALA:HB2	2.00	0.43
1:H:1128:ASN:ND2	1:H:1158:GLY:HA2	2.33	0.43
1:H:1217:ASP:N	1:H:1221:ASP:OD2	2.51	0.43
1:I:392:TYR:O	1:I:395:VAL:HG12	2.18	0.43
1:I:509:TRP:CH2	1:I:564:PRO:HD3	2.50	0.43
1:J:277:VAL:HB	1:J:378:GLU:OE1	2.18	0.43
1:J:403:VAL:HA	1:J:1053:VAL:HA	2.00	0.43
1:J:627:PHE:CE1	1:J:651:CYS:HB3	2.53	0.43
1:J:735:LEU:HD22	1:J:936:GLY:HA3	1.98	0.43
1:J:1344:ARG:O	1:J:1347:ARG:HD3	2.05	0.43
1:K:871:VAL:HG12	1:K:872:ALA:N	2.33	0.43
1:K:883:ARG:NH1	1:L:681:ASP:CB	2.69	0.43
1:K:1216:GLY:H	1:K:1221:ASP:HB2	1.81	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:542:GLU:CD	1:L:576:ARG:HH22	2.26	0.43
1:M:840:GLN:OE1	4:f:58:ALA:HA	2.18	0.43
1:M:1119:VAL:O	1:M:1119:VAL:HG12	2.18	0.43
1:M:1206:ARG:NH1	1:M:1226:MET:HG2	2.32	0.43
1:N:649:THR:HG22	1:N:678:LEU:HD13	1.99	0.43
1:N:706:ASP:O	1:N:1042:THR:HG21	2.18	0.43
1:N:786:ASN:O	1:N:786:ASN:OD1	2.36	0.43
1:N:834:ARG:HH11	4:s:94:LEU:H	1.66	0.43
1:N:842:MET:HB3	1:N:875:VAL:HG12	2.00	0.43
1:N:1131:LEU:C	1:N:1169:ALA:CB	2.90	0.43
1:O:77:VAL:HG13	1:O:277:VAL:HG22	2.00	0.43
1:O:458:VAL:HG23	1:O:462:CYS:SG	2.58	0.43
1:O:509:TRP:HB3	1:O:513:LEU:HB2	2.00	0.43
1:O:544:HIS:ND1	1:O:1252:TYR:CB	2.77	0.43
1:O:1119:VAL:O	1:O:1119:VAL:HG12	2.18	0.43
1:P:668:TYR:HB2	1:P:812:TYR:CD2	2.53	0.43
1:P:834:ARG:HG2	4:p:94:LEU:CB	2.43	0.43
1:P:1042:THR:HG22	1:P:1042:THR:O	2.18	0.43
1:P:1224:ALA:O	1:P:1225:LEU:C	2.52	0.43
2:R:111:GLY:O	2:R:296:ARG:NE	2.51	0.43
2:R:128:VAL:HG12	2:R:137:LEU:HB2	1.93	0.43
2:R:193:GLN:HG3	2:R:198:VAL:CG2	2.48	0.43
3:S:197:ALA:C	3:S:324:LEU:HD11	2.42	0.43
2:W:295:VAL:HG12	2:W:296:ARG:H	1.83	0.43
2:X:32:VAL:CG2	2:X:75:ILE:HD11	2.47	0.43
2:a:9:ASP:CB	2:a:82:ARG:NH1	2.81	0.43
2:a:32:VAL:C	2:a:34:LEU:HD23	2.42	0.43
2:a:264:ASP:CG	3:b:150:PRO:HG2	2.43	0.43
3:b:246:ARG:HG2	3:b:247:PHE:N	2.33	0.43
2:c:221:LEU:HD22	2:c:253:LEU:HA	1.99	0.43
4:f:27:LEU:HD12	4:f:27:LEU:HA	1.92	0.43
4:j:22:MET:HA	4:j:25:LEU:HD12	2.00	0.43
4:k:22:MET:HE2	4:k:25:LEU:CD1	2.48	0.43
4:p:22:MET:HE2	4:p:25:LEU:CD1	2.48	0.43
4:q:22:MET:HE2	4:q:25:LEU:CD1	2.48	0.43
4:t:41:PRO:CD	4:t:42:HIS:N	2.79	0.43
1:G:258:SER:OG	1:G:1102:LEU:HB3	2.18	0.43
1:G:591:PHE:CZ	1:G:1045:HIS:CD2	2.98	0.43
1:G:817:VAL:O	1:G:821:SER:O	2.35	0.43
1:A:266:HIS:O	1:A:274:VAL:HG23	2.17	0.43
1:A:295:VAL:HG11	1:A:369:ALA:N	2.32	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:470:ASP:OD1	1:A:471:ALA:N	2.51	0.43
1:A:1329:GLN:O	1:A:1330:GLU:HG3	2.19	0.43
1:B:400:LEU:HD23	1:B:400:LEU:HA	1.84	0.43
1:B:604:HIS:O	1:B:1022:TYR:OH	2.22	0.43
1:B:1200:ARG:HG3	1:B:1200:ARG:HH21	1.83	0.43
1:C:277:VAL:O	1:C:1065:PHE:HA	2.18	0.43
1:C:530:GLN:HG3	1:C:536:ASN:ND2	2.11	0.43
1:C:861:PRO:HA	1:C:866:HIS:CD2	2.53	0.43
1:C:911:SER:HB3	1:C:929:PHE:CD1	2.52	0.43
1:C:982:ASP:CB	1:C:985:ARG:NH2	2.81	0.43
1:D:79:CYS:HA	1:D:1071:GLU:HB3	2.00	0.43
1:D:433:ARG:O	1:D:1359:THR:OG1	2.37	0.43
1:E:776:PHE:O	1:E:904:ARG:HB3	2.18	0.43
1:E:827:THR:OG1	1:E:958:LEU:O	2.34	0.43
1:E:829:GLY:CA	1:E:905:THR:HG21	2.48	0.43
1:E:914:PRO:HG2	1:E:923:THR:HB	2.00	0.43
1:E:1128:ASN:ND2	1:E:1158:GLY:HA2	2.34	0.43
1:F:264:LEU:HD12	1:F:264:LEU:O	2.18	0.43
1:F:696:HIS:CE1	1:F:1021:THR:HG21	2.52	0.43
1:F:840:GLN:HG2	1:F:840:GLN:H	1.67	0.43
1:F:1160:ALA:HB2	1:F:1172:PRO:HG3	1.99	0.43
1:F:1270:LEU:HD12	1:F:1271:SER:H	1.83	0.43
1:F:1339:ASP:HB2	1:F:1342:LEU:HG	1.99	0.43
1:H:512:ARG:NH2	1:H:563:VAL:HG11	2.33	0.43
1:H:591:PHE:CZ	1:H:1045:HIS:CD2	3.03	0.43
1:H:742:LEU:HD23	1:H:746:ALA:HB2	2.00	0.43
1:H:978:PRO:HA	1:H:981:ARG:HG2	2.00	0.43
1:H:1198:TYR:CD2	1:H:1236:ARG:CD	3.01	0.43
1:I:274:VAL:O	1:I:275:ASP:C	2.61	0.43
1:I:534:PRO:CD	1:I:535:ASP:N	2.67	0.43
1:J:399:ASP:HB2	1:J:1324:PRO:CD	2.48	0.43
1:J:406:LEU:C	1:J:408:LEU:N	2.76	0.43
1:J:437:PRO:CB	1:J:1360:GLN:NE2	2.66	0.43
1:J:733:PRO:HG2	1:J:736:VAL:HG22	1.99	0.43
1:J:739:CYS:HB2	1:J:743:MET:HE2	2.00	0.43
1:J:1026:ALA:HA	1:J:1029:PHE:CD2	2.53	0.43
1:L:75:LEU:HA	1:L:277:VAL:HG11	2.00	0.43
1:L:606:MET:N	1:L:1018:ASN:HD21	2.17	0.43
1:M:146:GLU:O	1:M:148:LEU:N	2.48	0.43
1:M:403:VAL:HA	1:M:1052:VAL:O	2.18	0.43
1:M:580:GLY:HA2	1:M:592:ARG:HH12	1.83	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:837:ALA:HB2	4:f:54:LEU:HD21	1.99	0.43
1:N:311:LEU:HD22	1:N:315:ASN:HB3	1.99	0.43
1:N:447:HIS:O	1:N:448:GLN:HB3	2.18	0.43
1:N:742:LEU:CD2	1:N:765:TYR:HH	2.12	0.43
1:N:1057:ARG:HB2	1:N:1119:VAL:HB	2.00	0.43
1:N:1206:ARG:HH11	1:N:1210:ALA:CA	2.24	0.43
1:O:235:GLY:HA3	1:O:1114:THR:HG22	2.00	0.43
1:O:269:THR:HG22	1:O:301:ASP:HB2	1.99	0.43
1:O:804:ASP:HB3	1:O:808:HIS:CE1	2.53	0.43
1:O:1250:PHE:HE1	1:O:1261:TYR:OH	2.01	0.43
1:P:266:HIS:C	1:P:266:HIS:HD1	2.22	0.43
1:P:280:THR:HG23	1:P:1063:VAL:HG12	2.01	0.43
1:P:527:THR:HB	1:P:585:ALA:O	2.19	0.43
1:P:696:HIS:HE1	1:P:1021:THR:CG2	2.30	0.43
1:P:1364:TYR:CG	1:P:1365:ASP:N	2.85	0.43
2:T:183:GLY:C	2:T:184:ALA:O	2.60	0.43
2:U:295:VAL:CG2	2:U:314:VAL:CG1	2.96	0.43
3:V:278:HIS:N	3:V:279:PRO:HD2	2.33	0.43
2:W:100:LEU:HD12	2:W:314:VAL:HG21	1.99	0.43
2:W:156:VAL:O	2:W:160:ILE:HG12	2.18	0.43
2:W:228:LEU:HD23	2:W:238:ASN:HA	2.00	0.43
2:X:111:GLY:O	2:X:296:ARG:NE	2.51	0.43
3:Y:167:ALA:CB	3:Y:226:ARG:HG3	2.48	0.43
3:Y:246:ARG:HG2	3:Y:247:PHE:N	2.33	0.43
3:Y:271:GLN:O	3:Y:274:THR:CG2	2.50	0.43
2:Z:189:VAL:HG13	2:Z:191:ASP:H	1.81	0.43
2:a:111:GLY:O	2:a:296:ARG:NE	2.51	0.43
2:c:211:TYR:CD1	2:d:241:LEU:HD23	2.53	0.43
2:c:228:LEU:HD23	2:c:238:ASN:HA	2.00	0.43
3:e:436:LEU:N	3:e:436:LEU:CD2	2.79	0.43
4:g:29:THR:O	4:h:98:TYR:O	2.36	0.43
4:o:103:VAL:O	4:o:106:PRO:CD	2.60	0.43
4:r:107:LYS:CG	4:r:108:THR:N	2.80	0.43
1:G:1008:GLN:HE22	1:G:1011:ARG:HH11	1.66	0.43
1:G:1198:TYR:CD1	1:G:1198:TYR:O	2.70	0.43
1:A:159:LEU:HD21	1:F:339:MET:HB3	2.00	0.43
1:A:534:PRO:HB3	1:B:1154:GLY:H	1.82	0.43
1:B:1316:GLY:HA3	3:S:260:LEU:HD22	1.94	0.43
1:C:440:LEU:O	1:C:451:ARG:HA	2.19	0.43
1:C:486:PRO:HG3	1:C:564:PRO:HG3	2.00	0.43
1:C:1080:VAL:HG21	3:e:13:TRP:CB	2.48	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:269:THR:OG1	1:D:362:ARG:NH1	2.51	0.43
1:D:403:VAL:HG23	1:D:1331:ALA:HB3	2.00	0.43
1:D:514:ALA:HA	1:D:983:LEU:HD13	2.00	0.43
1:D:627:PHE:CE1	1:D:651:CYS:HB3	2.53	0.43
1:E:214:VAL:HG21	1:F:1307:SER:O	2.18	0.43
1:E:259:VAL:HG12	1:E:260:ALA:N	2.34	0.43
1:E:411:PRO:O	1:E:415:ARG:HG3	2.19	0.43
1:E:892:LEU:HD11	4:k:65:GLY:CA	2.42	0.43
1:F:456:ASN:OD1	1:F:1126:PRO:HG3	2.17	0.43
1:H:293:LEU:HD22	1:H:370:ILE:HG12	2.00	0.43
1:I:120:MET:HA	1:L:38:PHE:O	2.18	0.43
1:I:279:VAL:O	1:I:394:LEU:CD2	2.66	0.43
1:I:301:ASP:OD2	1:I:376:PHE:CE1	2.71	0.43
1:I:543:LEU:HB3	1:I:1251:SER:HA	1.99	0.43
1:I:631:GLN:NE2	1:I:667:ASP:HB2	2.32	0.43
1:I:1073:TYR:CE2	1:I:1097:ARG:NH1	2.83	0.43
1:I:1118:PRO:HB3	1:I:1122:MET:HE2	2.00	0.43
1:I:1202:PRO:HA	1:I:1331:ALA:O	2.19	0.43
1:J:238:GLY:HA3	1:J:287:ARG:NH2	2.33	0.43
1:J:318:THR:O	1:J:323:GLY:N	2.52	0.43
1:J:381:GLU:O	1:J:385:TYR:N	2.44	0.43
1:J:637:SER:HB2	1:J:787:THR:HA	2.00	0.43
1:J:724:HIS:CD2	1:J:726:MET:HB2	2.53	0.43
1:J:790:ARG:HD3	4:o:102:VAL:O	2.18	0.43
1:J:844:VAL:HG11	4:o:68:HIS:CB	2.47	0.43
1:J:864:PRO:HG3	1:J:888:GLY:HA2	2.01	0.43
1:J:1077:GLN:O	1:J:1096:PRO:HD2	2.18	0.43
1:J:1147:LEU:O	1:J:1148:ARG:C	2.61	0.43
1:J:1210:ALA:HB3	1:J:1329:GLN:HE21	1.80	0.43
1:K:422:ASP:H	1:K:424:VAL:HG23	1.84	0.43
1:K:533:GLN:H	1:K:534:PRO:HD2	1.81	0.43
1:K:541:LEU:HD23	1:K:541:LEU:HA	1.65	0.43
1:K:778:ARG:HH22	1:K:780:ASP:CG	2.21	0.43
1:K:842:MET:SD	4:p:61:LEU:CD2	3.06	0.43
1:K:861:PRO:HA	1:K:866:HIS:CD2	2.54	0.43
1:L:82:THR:CA	1:L:307:GLY:O	2.63	0.43
1:L:330:ASP:OD1	1:L:331:ASP:N	2.47	0.43
1:M:422:ASP:H	1:M:424:VAL:HG23	1.83	0.43
1:N:838:THR:HG23	4:s:94:LEU:HA	1.99	0.43
1:N:933:LEU:HG	1:N:960:VAL:HG11	1.99	0.43
1:N:1166:PHE:CB	3:V:140:LEU:HB2	2.48	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:269:THR:HB	1:O:298:THR:HG21	2.00	0.43
1:O:450:LEU:HD22	1:O:1124:ASN:ND2	2.34	0.43
1:O:544:HIS:CD2	1:O:547:PHE:HD2	2.35	0.43
1:O:1083:HIS:O	1:O:1089:VAL:O	2.37	0.43
1:P:844:VAL:CG1	1:P:845:PRO:N	2.80	0.43
2:R:12:ILE:HD11	2:R:83:ILE:CD1	2.48	0.43
2:R:295:VAL:CG2	2:R:314:VAL:CG1	2.96	0.43
2:T:116:LEU:CD1	2:T:141:VAL:HB	2.49	0.43
2:T:221:LEU:HD22	2:T:253:LEU:HA	2.00	0.43
3:V:220:ALA:N	3:V:223:ARG:HH21	2.16	0.43
2:X:44:ALA:HA	2:X:135:LEU:HD13	2.00	0.43
3:Y:11:MET:O	3:Y:15:GLU:N	2.36	0.43
3:Y:88:ASP:O	3:Y:91:LEU:CA	2.66	0.43
2:Z:116:LEU:CD1	2:Z:141:VAL:HB	2.48	0.43
2:Z:267:ARG:C	2:Z:271:LEU:HG	2.39	0.43
2:a:133:LEU:HD22	2:a:133:LEU:N	2.29	0.43
3:b:163:GLN:NE2	3:b:163:GLN:H	2.17	0.43
3:b:417:CYS:O	3:b:418:THR:HB	2.18	0.43
2:d:60:THR:O	2:d:60:THR:OG1	2.29	0.43
4:l:3:ALA:HB2	4:l:38:ASN:CG	2.44	0.43
4:o:41:PRO:CD	4:o:42:HIS:N	2.79	0.43
4:r:90:PRO:CB	4:r:105:ASP:C	2.86	0.43
4:s:46:THR:CB	4:s:50:VAL:HG12	2.43	0.43
1:G:124:ILE:HD13	1:G:124:ILE:HG21	1.72	0.43
1:G:147:ALA:O	1:G:150:GLY:N	2.49	0.43
1:G:518:VAL:O	1:G:520:TRP:O	2.35	0.43
1:G:529:GLU:O	1:G:532:MET:HG2	2.18	0.43
1:G:1166:PHE:CZ	2:Q:277:ALA:O	2.71	0.43
1:G:1227:TYR:CD2	1:G:1249:ARG:CZ	3.01	0.43
1:A:1285:LYS:HD3	1:A:1285:LYS:C	2.43	0.43
1:B:303:PRO:HD3	1:B:360:THR:C	2.43	0.43
1:B:312:ASN:O	1:B:316:LEU:HG	2.17	0.43
1:B:452:LEU:CD2	1:B:456:ASN:HD21	2.25	0.43
1:B:679:GLY:HA2	1:B:687:MET:HE2	2.00	0.43
1:B:726:MET:HE2	1:B:1028:TYR:CD2	2.53	0.43
1:B:1125:LEU:HA	1:B:1126:PRO:HD2	1.89	0.43
1:B:1125:LEU:HB3	1:B:1183:ALA:O	2.19	0.43
1:B:1188:ILE:O	1:B:1190:THR:HG23	2.18	0.43
1:C:72:GLU:O	1:C:73:LEU:HB2	2.18	0.43
1:C:84:PHE:CD1	1:C:309:MET:SD	3.11	0.43
1:C:631:GLN:NE2	1:C:667:ASP:HB2	2.33	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1211:GLY:N	1:C:1329:GLN:HG2	2.33	0.43
1:D:200:PRO:HA	1:D:203:ARG:NH1	2.34	0.43
1:D:1199:PHE:C	1:D:1201:ARG:N	2.74	0.43
1:E:259:VAL:CG1	1:E:260:ALA:N	2.82	0.43
1:F:392:TYR:O	1:F:395:VAL:HG12	2.19	0.43
1:F:656:TRP:CD2	1:F:686:CYS:HB3	2.53	0.43
1:F:1054:ARG:HH22	1:F:1123:GLY:HA3	1.82	0.43
1:H:77:VAL:O	1:H:77:VAL:HG22	2.18	0.43
1:H:968:ASP:O	1:H:972:ASN:ND2	2.48	0.43
1:H:1273:CYS:O	1:H:1274:PHE:C	2.61	0.43
1:I:414:GLU:HG3	1:J:1344:ARG:NH2	2.32	0.43
1:J:30:ALA:O	1:J:33:ARG:HB2	2.18	0.43
1:J:231:SER:O	1:J:232:PHE:HB2	2.18	0.43
1:J:269:THR:C	1:J:271:GLY:H	2.26	0.43
1:J:395:VAL:O	1:J:395:VAL:HG13	2.19	0.43
1:J:558:LEU:CD2	1:J:999:PHE:CZ	3.02	0.43
1:J:626:VAL:CG1	1:J:878:MET:HG3	2.48	0.43
1:J:626:VAL:HG12	1:J:878:MET:HG3	2.00	0.43
1:J:895:GLN:HB2	4:o:62:THR:CG2	2.49	0.43
1:K:87:LEU:HD13	1:K:1097:ARG:HA	2.01	0.43
1:K:281:THR:HG22	1:K:284:ILE:HD12	2.01	0.43
1:K:399:ASP:CG	1:K:1055:GLN:HE21	2.25	0.43
1:K:1125:LEU:HD23	1:K:1182:ASP:HB3	2.00	0.43
1:K:1134:GLY:HA3	1:K:1263:LEU:HD22	2.01	0.43
1:K:1233:ASP:O	1:K:1234:PRO:C	2.60	0.43
1:L:69:ARG:O	1:L:70:PHE:HB3	2.18	0.43
1:L:269:THR:HG23	1:L:367:LEU:CD1	2.48	0.43
1:L:381:GLU:O	1:L:386:ALA:N	2.51	0.43
1:L:445:LYS:HD2	1:L:1118:PRO:CG	2.48	0.43
1:L:487:TYR:OH	1:L:989:LEU:HA	2.17	0.43
1:L:957:VAL:O	1:L:958:LEU:C	2.61	0.43
1:M:136:ALA:O	1:M:139:ALA:N	2.52	0.43
1:M:262:PRO:O	1:M:265:THR:HG23	2.19	0.43
1:M:785:HIS:O	1:M:785:HIS:CG	2.70	0.43
1:M:840:GLN:OE1	4:f:58:ALA:HB1	2.14	0.43
1:M:1237:PRO:O	1:N:1156:ARG:NH2	2.51	0.43
1:N:472:ALA:HA	1:N:1250:PHE:HB3	2.00	0.43
1:N:530:GLN:OE1	1:N:585:ALA:HB3	2.18	0.43
1:O:758:ALA:HB2	1:O:904:ARG:HH12	0.99	0.43
1:O:776:PHE:HD1	1:O:903:GLU:HA	1.83	0.43
1:P:836:TYR:O	1:P:840:GLN:HG2	2.18	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:1071:GLU:OE2	1:P:1099:ASN:HB2	2.19	0.43
1:P:1188:ILE:HD11	1:P:1273:CYS:SG	2.58	0.43
2:R:16:ILE:C	2:R:17:SER:HG	2.26	0.43
2:R:100:LEU:O	2:R:312:ALA:N	2.34	0.43
2:T:80:PRO:C	2:T:81:THR:HG1	2.23	0.43
2:U:60:THR:O	2:U:60:THR:OG1	2.29	0.43
3:V:246:ARG:HG2	3:V:247:PHE:N	2.33	0.43
2:W:295:VAL:HG12	2:W:315:ILE:O	2.15	0.43
3:Y:153:GLN:C	3:Y:155:GLU:N	2.76	0.43
3:Y:257:GLN:O	3:Y:258:ASP:C	2.58	0.43
3:Y:300:LEU:HD21	3:Y:333:GLN:N	2.34	0.43
2:Z:207:LEU:HD13	2:a:237:VAL:HG22	2.01	0.43
2:a:24:LEU:HD23	2:a:24:LEU:HA	1.77	0.43
2:c:116:LEU:CD1	2:c:141:VAL:HB	2.48	0.43
4:f:9:PRO:HB3	4:f:17:VAL:CB	2.44	0.43
4:g:86:GLU:N	4:g:105:ASP:CB	2.73	0.43
4:j:107:LYS:CG	4:j:108:THR:N	2.76	0.43
4:k:8:ARG:HA	4:k:9:PRO:HA	1.16	0.43
4:l:93:GLY:C	4:l:95:LYS:N	2.74	0.43
1:G:454:MET:C	1:G:456:ASN:N	2.73	0.43
1:G:1066:SER:HA	1:G:1107:THR:O	2.18	0.43
1:G:1198:TYR:O	1:G:1198:TYR:HD1	2.01	0.43
1:A:163:GLN:HE22	1:F:348:ARG:HG2	1.82	0.43
1:A:213:ARG:HH11	1:B:1176:GLY:HA2	1.84	0.43
1:A:258:SER:OG	1:A:259:VAL:N	2.51	0.43
1:A:413:MET:CG	1:B:1340:PRO:HD2	2.48	0.43
1:A:584:LEU:HD13	1:A:589:VAL:HG23	2.00	0.43
1:A:811:ILE:O	1:A:815:VAL:HB	2.18	0.43
1:B:46:GLU:O	1:B:47:ASN:HB3	2.17	0.43
1:B:408:LEU:HD21	1:B:1190:THR:OG1	2.19	0.43
1:B:730:ALA:CB	1:B:750:ARG:HH12	2.31	0.43
1:B:756:ILE:HG22	1:B:761:HIS:O	2.18	0.43
1:B:1205:PRO:HG3	1:B:1276:PHE:CD2	2.53	0.43
1:B:1333:PRO:HD2	1:B:1366:ALA:O	2.19	0.43
1:C:124:ILE:CG1	1:C:1100:VAL:HG21	2.47	0.43
1:C:379:ALA:O	1:C:380:LEU:HB2	2.19	0.43
1:C:403:VAL:C	1:C:404:LEU:HD12	2.43	0.43
1:C:662:ALA:HB2	1:C:689:VAL:HG11	2.00	0.43
1:C:842:MET:CE	4:i:61:LEU:HD13	2.48	0.43
1:C:1133:ARG:O	1:C:1133:ARG:HG3	2.17	0.43
1:D:278:LEU:HD11	1:D:370:ILE:HD12	2.00	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:467:MET:HE1	1:D:575:TRP:HE1	1.82	0.43
1:D:736:VAL:HG12	1:D:738:ASP:O	2.18	0.43
1:D:841:ASN:O	1:D:874:THR:OG1	2.31	0.43
1:D:1052:VAL:HA	1:D:1186:GLU:O	2.18	0.43
1:D:1198:TYR:O	1:D:1198:TYR:CG	2.69	0.43
1:E:30:ALA:HB2	1:E:41:ARG:HD2	2.00	0.43
1:E:1073:TYR:OH	1:E:1097:ARG:NH1	2.51	0.43
1:F:443:TRP:HZ2	1:F:1347:ARG:HG3	1.80	0.43
1:F:728:ASP:O	1:F:810:LYS:NZ	2.52	0.43
1:F:1059:VAL:HG23	1:F:1119:VAL:CG2	2.47	0.43
1:F:1328:PHE:O	1:F:1330:GLU:HG2	2.19	0.43
1:H:141:ALA:CB	1:H:146:GLU:OE1	2.63	0.43
1:H:447:HIS:O	1:H:448:GLN:O	2.37	0.43
1:I:99:VAL:HG23	1:I:99:VAL:O	2.18	0.43
1:I:801:ARG:HB3	1:I:802:PRO:HD2	2.01	0.43
1:J:251:LEU:HD21	1:J:278:LEU:HD11	2.00	0.43
1:J:304:VAL:CG2	1:J:358:PRO:HB2	2.48	0.43
1:J:402:PHE:N	1:J:402:PHE:HD2	2.16	0.43
1:J:435:PHE:CB	1:J:436:PRO:HD2	2.33	0.43
1:J:440:LEU:HD13	1:J:1361:TYR:CE1	2.54	0.43
1:J:724:HIS:CD2	1:J:726:MET:H	2.36	0.43
1:J:1133:ARG:NH2	1:J:1266:ALA:HB1	2.33	0.43
1:K:536:ASN:C	1:K:538:ASN:N	2.72	0.43
1:K:775:ASP:O	1:K:903:GLU:HB2	2.18	0.43
1:K:892:LEU:CG	4:p:65:GLY:HA2	2.48	0.43
1:K:976:PHE:CE2	1:K:981:ARG:HD2	2.54	0.43
1:L:252:THR:HG22	1:L:373:ARG:HH11	1.83	0.43
1:L:768:ALA:HA	1:L:786:ASN:CB	2.48	0.43
1:L:1198:TYR:O	1:L:1199:PHE:CB	2.66	0.43
1:N:184:MET:HE2	1:N:184:MET:HB2	1.88	0.43
1:N:505:PHE:CE1	1:N:509:TRP:CD1	3.07	0.43
1:N:758:ALA:HB3	1:N:781:GLY:HA2	2.00	0.43
1:N:915:ASP:O	1:N:919:ASN:HB2	2.17	0.43
1:O:11:TYR:HB2	1:O:38:PHE:CE2	2.53	0.43
1:O:251:LEU:HD12	1:O:1109:VAL:CG1	2.48	0.43
1:O:889:PRO:CG	4:s:69:ALA:CB	2.96	0.43
1:O:1215:ALA:HB1	1:O:1221:ASP:CB	2.49	0.43
1:P:311:LEU:O	1:P:316:LEU:HD12	2.19	0.43
1:P:462:CYS:O	1:P:1147:LEU:HD11	2.19	0.43
1:P:1061:GLU:OE1	1:P:1114:THR:CG2	2.64	0.43
1:P:1264:ASN:N	1:P:1264:ASN:ND2	2.66	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:S:278:HIS:N	3:S:279:PRO:HD2	2.33	0.43
2:T:163:LEU:HD12	2:T:163:LEU:HA	1.77	0.43
3:V:39:PRO:C	3:V:41:ILE:H	2.27	0.43
2:Z:223:LEU:HD11	2:Z:271:LEU:CB	2.35	0.43
3:b:206:ALA:C	3:b:447:VAL:HG12	2.43	0.43
3:e:211:ILE:HG23	3:e:215:TYR:HB2	1.98	0.43
4:g:41:PRO:HD2	4:g:42:HIS:H	1.84	0.43
4:l:22:MET:HE2	4:l:25:LEU:CD1	2.48	0.43
4:m:41:PRO:CD	4:m:42:HIS:N	2.79	0.43
4:o:22:MET:HE2	4:o:25:LEU:CD1	2.48	0.43
4:p:6:PHE:CB	4:p:10:SER:HB2	2.32	0.43
4:r:3:ALA:HB2	4:r:38:ASN:CG	2.44	0.43
4:t:3:ALA:HB2	4:t:38:ASN:CG	2.44	0.43
1:G:201:MET:O	1:G:205:LEU:HG	2.19	0.43
1:G:492:ALA:HB1	1:G:562:GLU:HA	1.99	0.43
1:G:717:GLN:NE2	1:G:729:PRO:HD2	2.32	0.43
1:G:742:LEU:HA	1:G:745:HIS:CE1	2.54	0.43
1:G:1145:VAL:O	1:G:1149:ASN:ND2	2.51	0.43
1:A:71:LEU:HD11	1:A:306:TYR:CD1	2.53	0.43
1:A:241:ARG:O	1:A:242:GLU:HB2	2.17	0.43
1:B:633:ALA:HB2	1:B:839:LEU:CD1	2.48	0.43
1:B:1059:VAL:HG23	1:B:1119:VAL:HG23	2.00	0.43
1:B:1221:ASP:O	1:B:1225:LEU:N	2.30	0.43
1:B:1249:ARG:HG2	1:B:1250:PHE:CD2	2.54	0.43
1:B:1278:THR:O	1:B:1282:ILE:CD1	2.66	0.43
1:C:58:LEU:HD23	1:C:58:LEU:HA	1.85	0.43
1:D:180:THR:O	1:D:184:MET:HG2	2.19	0.43
1:D:400:LEU:HD22	1:D:1332:TYR:HE1	1.80	0.43
1:D:403:VAL:CG2	1:D:1331:ALA:CB	2.96	0.43
1:D:467:MET:HE2	1:D:547:PHE:CE2	2.54	0.43
1:D:742:LEU:HD23	1:D:742:LEU:O	2.18	0.43
1:D:874:THR:HG23	1:D:877:ALA:H	1.82	0.43
1:D:1123:GLY:O	1:D:1124:ASN:HB3	2.17	0.43
1:D:1200:ARG:HH22	1:E:1344:ARG:HH21	1.66	0.43
1:D:1249:ARG:HG2	1:D:1250:PHE:CD2	2.54	0.43
1:E:200:PRO:HA	1:E:203:ARG:NH1	2.33	0.43
1:E:398:MET:HE2	1:E:398:MET:HB3	1.90	0.43
1:E:576:ARG:HA	1:E:1003:ARG:NH1	2.34	0.43
1:F:633:ALA:O	1:F:635:HIS:ND1	2.38	0.43
1:F:992:PRO:HA	1:F:995:GLY:O	2.19	0.43
1:H:77:VAL:HG12	1:H:277:VAL:CG2	2.47	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:81:CYS:HB3	1:H:306:TYR:CE1	2.53	0.43
1:H:84:PHE:CD1	1:H:309:MET:CG	2.99	0.43
1:H:976:PHE:HE2	1:H:981:ARG:HD2	1.83	0.43
1:H:1059:VAL:HG11	1:H:1116:ARG:HD3	1.99	0.43
1:H:1120:THR:O	1:H:1120:THR:HG23	2.18	0.43
1:H:1201:ARG:HH22	1:I:1179:HIS:CE1	2.32	0.43
1:I:288:LEU:HB3	1:I:293:LEU:HD12	1.99	0.43
1:J:847:ILE:HD11	1:J:854:PRO:HD3	2.01	0.43
1:J:1138:LEU:HB2	1:J:1144:ALA:HB2	2.01	0.43
1:K:301:ASP:O	1:K:362:ARG:HA	2.17	0.43
1:K:380:LEU:HD12	1:K:392:TYR:HE1	1.83	0.43
1:K:668:TYR:HB2	1:K:812:TYR:CD2	2.53	0.43
1:K:841:ASN:HB2	4:p:57:GLN:NE2	2.32	0.43
1:K:845:PRO:HG3	1:K:869:ASN:OD1	2.19	0.43
1:N:293:LEU:HG	1:N:368:VAL:CG1	2.46	0.43
1:N:776:PHE:CD2	1:N:833:ASP:HB3	2.54	0.43
1:N:1218:LYS:CG	1:O:1173:ARG:HH22	2.18	0.43
1:O:399:ASP:CG	1:O:1321:VAL:HG21	2.44	0.43
1:O:889:PRO:O	1:O:893:THR:HG23	2.17	0.43
1:O:889:PRO:HA	1:O:892:LEU:HB3	2.00	0.43
1:P:1059:VAL:HG23	1:P:1119:VAL:HG21	2.00	0.43
2:Q:123:GLY:C	2:Q:124:GLN:HE21	2.26	0.43
3:S:245:MET:HB2	3:S:245:MET:HE2	1.60	0.43
2:U:16:ILE:HA	2:U:132:SER:CB	2.48	0.43
2:X:99:ASN:CB	2:X:311:MET:HE3	2.31	0.43
3:Y:36:VAL:CG2	3:Y:39:PRO:HG3	2.48	0.43
3:Y:79:THR:O	3:Y:83:THR:HG22	2.18	0.43
2:a:34:LEU:HG	2:a:71:PHE:O	2.19	0.43
2:a:38:ARG:HG2	3:b:305:PRO:O	2.17	0.43
2:a:104:SER:HB3	2:a:141:VAL:HG13	2.00	0.43
3:b:235:VAL:HG12	3:b:323:GLU:HB3	2.01	0.43
2:c:164:ASN:HA	2:c:165:PRO:HD3	1.79	0.43
2:d:295:VAL:CG2	2:d:314:VAL:CG1	2.96	0.43
3:e:39:PRO:CA	3:e:40:PRO:O	2.66	0.43
4:i:41:PRO:HD2	4:i:42:HIS:H	1.84	0.43
4:k:3:ALA:HB2	4:k:38:ASN:CG	2.44	0.43
4:l:41:PRO:CD	4:l:42:HIS:N	2.79	0.43
4:p:22:MET:HA	4:p:25:LEU:HD12	2.00	0.43
4:s:3:ALA:HB2	4:s:38:ASN:CG	2.44	0.43
4:s:41:PRO:HD2	4:s:42:HIS:H	1.84	0.43
4:s:97:THR:O	4:s:98:TYR:C	2.58	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:35:LEU:CD1	1:G:38:PHE:CB	2.97	0.43
1:G:94:ARG:CD	1:G:121:THR:HG21	2.40	0.43
1:G:654:SER:OG	1:G:884:VAL:HA	2.18	0.43
1:G:1067:GLU:CG	1:G:1107:THR:CG2	2.96	0.43
1:A:301:ASP:OD1	1:A:302:VAL:N	2.52	0.43
1:A:847:ILE:HG21	4:g:71:ASN:N	2.31	0.43
1:B:204:TYR:OH	1:C:1117:ASN:ND2	2.51	0.43
1:B:329:LEU:HA	1:B:332:VAL:HG22	2.01	0.43
1:B:667:ASP:O	1:B:671:VAL:HG23	2.18	0.43
1:B:724:HIS:CD2	1:B:726:MET:HB2	2.54	0.43
1:B:726:MET:HE1	1:B:814:TYR:CB	2.49	0.43
1:C:124:ILE:HG13	1:C:1100:VAL:CG2	2.47	0.43
1:C:189:LEU:HD12	1:C:1064:LEU:HD22	2.00	0.43
1:C:714:LEU:HD13	1:C:719:GLN:HE22	1.83	0.43
1:C:742:LEU:CD2	1:C:746:ALA:HB2	2.46	0.43
1:C:755:ARG:NH1	1:C:755:ARG:HB3	2.33	0.43
1:C:842:MET:SD	4:i:61:LEU:HD22	2.59	0.43
1:C:1056:ASP:OD1	1:C:1120:THR:HG23	2.19	0.43
1:C:1078:LEU:HD12	3:e:10:PRO:CB	2.48	0.43
1:C:1301:SER:OG	1:C:1319:GLU:HB3	2.19	0.43
1:D:1107:THR:HG22	1:D:1108:ALA:N	2.28	0.43
1:D:1320:LEU:HA	1:D:1320:LEU:HD23	1.78	0.43
1:E:156:HIS:CE1	1:I:14:ALA:HB2	2.53	0.43
1:E:234:LEU:HD23	1:E:1114:THR:HG23	2.00	0.43
1:E:467:MET:HE3	1:E:1033:PRO:HD3	1.99	0.43
1:E:778:ARG:NH2	1:E:780:ASP:OD2	2.52	0.43
1:E:1008:GLN:HE22	1:E:1011:ARG:NH1	2.17	0.43
1:F:626:VAL:HG12	1:F:878:MET:HG3	2.01	0.43
1:F:841:ASN:O	1:F:874:THR:OG1	2.32	0.43
1:H:811:ILE:O	1:H:815:VAL:HB	2.19	0.43
1:H:836:TYR:HE1	1:H:897:LEU:HD22	1.83	0.43
1:H:1033:PRO:HA	1:H:1036:LEU:HB2	2.01	0.43
1:H:1067:GLU:HG2	1:H:1107:THR:CG2	2.49	0.43
1:H:1132:GLY:HA3	1:H:1266:ALA:HB3	1.99	0.43
1:I:424:VAL:HG22	1:I:425:PRO:HD2	1.99	0.43
1:J:265:THR:OG1	1:J:304:VAL:HB	2.19	0.43
1:J:656:TRP:CG	1:J:686:CYS:HB3	2.53	0.43
1:J:672:SER:OG	1:J:805:TRP:HH2	2.02	0.43
1:J:678:LEU:HB3	1:J:682:LEU:HD13	2.00	0.43
1:J:684:GLU:OE1	1:J:684:GLU:HA	2.18	0.43
1:J:815:VAL:HG22	1:J:1028:TYR:CE2	2.53	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:87:LEU:CD1	1:K:1097:ARG:HA	2.48	0.43
1:K:754:CYS:SG	1:K:908:LEU:HD11	2.59	0.43
1:K:933:LEU:HG	1:K:960:VAL:CG1	2.49	0.43
1:L:304:VAL:HG21	1:L:358:PRO:HB2	2.00	0.43
1:L:836:TYR:CZ	1:L:901:MET:HB2	2.54	0.43
1:L:1325:CYS:O	1:L:1329:GLN:HA	2.19	0.43
1:L:1369:LEU:HD13	1:L:1372:LEU:HD12	2.00	0.43
1:N:335:HIS:O	1:N:339:MET:HG3	2.19	0.43
1:N:429:HIS:HB3	1:N:430:PRO:HD3	1.96	0.43
1:N:481:VAL:HG22	1:N:482:GLU:N	2.30	0.43
1:N:1039:GLN:HB2	1:N:1044:LEU:HB3	2.00	0.43
1:N:1218:LYS:NZ	1:O:1173:ARG:NH2	2.66	0.43
1:O:184:MET:HE2	1:O:184:MET:HB2	1.87	0.43
1:O:1286:HIS:CD2	1:O:1288:CYS:SG	3.11	0.43
1:P:633:ALA:HB2	1:P:839:LEU:HD11	2.01	0.43
1:P:752:ARG:HD2	1:P:927:ARG:CZ	2.48	0.43
1:P:876:ASN:HA	1:P:879:PHE:HD2	1.84	0.43
2:Q:12:ILE:HB	2:Q:81:THR:HA	2.01	0.43
3:S:241:PRO:C	3:S:242:HIS:O	2.60	0.43
2:U:111:GLY:O	2:U:296:ARG:NE	2.50	0.43
2:U:161:ARG:NH1	2:U:176:LEU:HD12	2.33	0.43
3:V:349:ARG:NH2	3:V:351:ARG:NH1	2.60	0.43
2:W:100:LEU:HG	2:W:314:VAL:HG21	1.99	0.43
3:Y:148:ALA:CB	3:Y:154:THR:HG22	2.49	0.43
3:Y:251:LEU:HD23	3:Y:254:TRP:CE3	2.44	0.43
2:Z:12:ILE:HB	2:Z:81:THR:HA	2.01	0.43
2:Z:24:LEU:HD21	2:Z:130:LEU:HD11	2.01	0.43
2:a:154:ARG:NH1	2:a:178:VAL:O	2.36	0.43
2:c:12:ILE:HB	2:c:81:THR:HA	2.01	0.43
2:c:204:SER:O	2:c:208:ASN:ND2	2.50	0.43
3:e:316:TYR:CE2	3:e:419:TYR:CA	2.90	0.43
4:f:9:PRO:HB3	4:f:18:ARG:N	2.34	0.43
4:f:22:MET:HA	4:f:25:LEU:HD12	2.00	0.43
4:k:29:THR:O	4:l:98:TYR:O	2.37	0.43
4:k:44:HIS:HD2	4:k:47:GLN:O	1.98	0.43
4:m:22:MET:HE2	4:m:25:LEU:CD1	2.48	0.43
4:m:92:PHE:CA	4:m:102:VAL:CB	2.88	0.43
4:o:3:ALA:HB2	4:o:38:ASN:CG	2.44	0.43
4:q:93:GLY:C	4:q:95:LYS:N	2.74	0.43
4:r:8:ARG:HA	4:r:17:VAL:CB	2.47	0.43
4:t:22:MET:HE2	4:t:25:LEU:CD1	2.48	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:158:GLN:O	1:G:161:ALA:N	2.51	0.43
1:G:244:ILE:HG22	1:G:248:LEU:CD1	2.49	0.43
1:G:274:VAL:CG2	1:G:374:LEU:CD2	2.77	0.43
1:G:321:VAL:C	1:G:322:MET:HE3	2.40	0.43
1:G:403:VAL:CG2	1:G:1331:ALA:CB	2.96	0.43
1:G:536:ASN:HB3	1:G:539:LEU:HB2	2.01	0.43
1:G:556:VAL:CG2	1:G:565:PRO:HB2	2.47	0.43
1:G:562:GLU:N	1:G:562:GLU:OE1	2.52	0.43
1:G:683:PRO:HG2	1:G:686:CYS:SG	2.58	0.43
1:G:866:HIS:CD2	1:G:868:ALA:H	2.37	0.43
1:G:1170:GLN:HB3	2:R:180:TYR:CD1	2.54	0.43
1:G:1288:CYS:O	1:G:1288:CYS:SG	2.77	0.43
1:A:269:THR:HG23	1:A:300:ALA:H	1.78	0.43
1:A:684:GLU:HB2	1:F:658:ASN:O	2.19	0.43
1:B:106:ARG:HH11	1:B:110:HIS:CD2	2.36	0.43
1:B:157:ARG:O	1:B:160:ARG:HG2	2.18	0.43
1:B:201:MET:HG2	1:B:205:LEU:CD1	2.49	0.43
1:B:402:PHE:HA	1:B:1332:TYR:O	2.19	0.43
1:B:438:ARG:O	1:B:454:MET:HG3	2.18	0.43
1:B:576:ARG:HH11	1:B:582:LEU:CD2	2.32	0.43
1:B:607:ALA:O	1:B:610:THR:HG22	2.19	0.43
1:C:217:ALA:HB1	1:D:1178:ASP:O	2.18	0.43
1:C:463:HIS:ND1	1:C:465:SER:OG	2.49	0.43
1:C:508:ALA:HB3	1:C:509:TRP:CD1	2.52	0.43
1:C:533:GLN:O	1:C:535:ASP:O	2.35	0.43
1:C:599:LEU:O	1:C:603:ARG:NH1	2.44	0.43
1:C:1251:SER:O	1:C:1252:TYR:C	2.62	0.43
1:C:1369:LEU:HD13	1:C:1372:LEU:HD12	1.99	0.43
1:D:416:PHE:HD2	1:D:418:ALA:N	2.16	0.43
1:D:606:MET:H	1:D:1018:ASN:ND2	2.17	0.43
1:E:31:SER:C	1:E:33:ARG:N	2.73	0.43
1:E:405:PRO:O	1:E:440:LEU:HD22	2.19	0.43
1:E:589:VAL:HG13	1:E:1009:HIS:HD2	1.84	0.43
1:E:841:ASN:O	1:E:875:VAL:N	2.42	0.43
1:E:1072:ALA:HB2	1:E:1102:LEU:CD2	2.42	0.43
1:F:536:ASN:C	1:F:538:ASN:N	2.72	0.43
1:F:842:MET:SD	4:l:61:LEU:CD2	3.07	0.43
1:F:845:PRO:HG2	1:F:862:ALA:O	2.18	0.43
1:I:216:ARG:CZ	1:I:1287:ARG:NH1	2.82	0.43
1:I:945:LEU:HD12	1:I:945:LEU:HA	1.80	0.43
1:I:1084:GLU:O	2:X:96:GLY:HA3	2.19	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:1342:LEU:O	1:I:1345:SER:OG	2.27	0.43
1:J:81:CYS:SG	1:J:1073:TYR:HD2	2.42	0.43
1:J:269:THR:C	1:J:271:GLY:N	2.76	0.43
1:J:381:GLU:HA	1:J:385:TYR:HB2	2.00	0.43
1:J:438:ARG:HD3	1:J:1045:HIS:HB2	2.01	0.43
1:J:541:LEU:C	1:J:543:LEU:HD13	2.43	0.43
1:J:766:ALA:HB3	1:J:784:LEU:HA	2.01	0.43
1:J:778:ARG:NH2	1:J:782:ARG:HD2	2.34	0.43
1:J:807:VAL:O	1:J:811:ILE:N	2.35	0.43
1:J:1020:LEU:O	1:J:1023:ALA:N	2.52	0.43
1:J:1340:PRO:HB2	1:J:1344:ARG:NH1	2.33	0.43
1:K:151:THR:HB	1:K:153:ILE:HG22	2.00	0.43
1:K:579:ASN:ND2	1:K:595:ARG:NH2	2.58	0.43
1:K:917:GLY:O	1:K:1033:PRO:HD2	2.18	0.43
1:K:950:GLN:HB3	1:K:953:GLU:OE2	2.19	0.43
1:K:950:GLN:CB	1:K:953:GLU:OE2	2.66	0.43
1:K:1367:SER:O	1:K:1370:LYS:HG2	2.19	0.43
1:L:301:ASP:O	1:L:362:ARG:HA	2.19	0.43
1:M:13:TYR:CZ	1:M:49:LEU:HD23	2.53	0.43
1:M:198:LEU:CD2	1:M:254:ALA:HB1	2.49	0.43
1:M:207:ASN:C	1:M:209:ARG:N	2.77	0.43
1:M:333:GLY:O	1:M:337:LEU:HG	2.19	0.43
1:M:339:MET:HA	1:M:348:ARG:NH1	2.34	0.43
1:M:452:LEU:HD11	1:M:1052:VAL:HG11	2.00	0.43
1:M:520:TRP:CG	1:M:997:ASN:ND2	2.86	0.43
1:M:597:LEU:HD12	1:M:1019:ALA:HB1	2.01	0.43
1:M:623:TYR:CZ	1:M:627:PHE:HD2	2.37	0.43
1:M:1216:GLY:H	1:M:1221:ASP:HB3	1.83	0.43
1:N:531:PHE:CE1	1:N:1244:PRO:HD3	2.54	0.43
1:N:598:GLU:O	1:N:601:VAL:HG22	2.19	0.43
1:N:841:ASN:CG	4:r:57:GLN:HE21	2.22	0.43
1:N:883:ARG:HG3	1:O:680:GLY:CA	2.30	0.43
1:O:108:GLY:HA3	1:O:109:PRO:HD3	1.88	0.43
1:O:444:GLY:HA3	1:O:450:LEU:HD11	2.00	0.43
1:O:903:GLU:HG2	1:O:904:ARG:H	1.84	0.43
1:O:1225:LEU:CD1	1:P:1176:GLY:HA3	2.46	0.43
1:O:1364:TYR:CG	1:O:1365:ASP:N	2.87	0.43
1:P:400:LEU:HD23	1:P:400:LEU:HA	1.85	0.43
1:P:490:TYR:OH	1:P:561:GLY:O	2.28	0.43
1:P:606:MET:H	1:P:1018:ASN:ND2	2.16	0.43
1:P:759:GLY:O	1:P:781:GLY:CA	2.61	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:1211:GLY:N	1:P:1329:GLN:HG2	2.34	0.43
2:R:61:LEU:HD21	2:R:155:LEU:HB3	2.00	0.43
2:U:44:ALA:HA	2:U:135:LEU:HD13	2.00	0.43
2:X:5:CYS:HG	2:X:86:CYS:HG	1.27	0.43
2:X:154:ARG:NH1	2:X:178:VAL:O	2.36	0.43
3:Y:299:GLU:O	3:Y:300:LEU:HB2	2.19	0.43
2:Z:272:TYR:OH	2:a:160:ILE:HG22	2.18	0.43
2:Z:295:VAL:HG12	2:Z:296:ARG:H	1.84	0.43
3:b:191:VAL:CG1	3:b:291:CYS:SG	3.07	0.43
2:d:44:ALA:HA	2:d:135:LEU:HD13	2.00	0.43
2:d:61:LEU:HD21	2:d:155:LEU:HB3	2.00	0.43
2:d:111:GLY:O	2:d:296:ARG:NE	2.51	0.43
2:d:193:GLN:HG3	2:d:198:VAL:CG2	2.48	0.43
4:j:3:ALA:HB2	4:j:38:ASN:CG	2.44	0.43
4:k:22:MET:HA	4:k:25:LEU:HD12	2.00	0.43
4:k:41:PRO:HD2	4:k:42:HIS:H	1.84	0.43
4:l:22:MET:HA	4:l:25:LEU:HD12	2.00	0.43
4:m:106:PRO:HG2	4:m:107:LYS:H	1.83	0.43
4:o:18:ARG:HA	4:o:56:GLY:HA3	2.01	0.43
4:o:18:ARG:CA	4:o:56:GLY:CA	2.95	0.43
1:G:237:ALA:HA	1:G:239:HIS:CE1	2.54	0.43
1:G:268:ASP:H	1:G:272:ARG:H	1.67	0.43
1:G:533:GLN:CB	1:G:534:PRO:CD	2.96	0.43
1:G:628:TYR:C	1:G:955:PHE:HZ	2.27	0.43
1:G:765:TYR:CE1	1:G:783:LEU:HD13	2.44	0.43
1:G:1300:VAL:N	1:G:1323:ASP:CB	2.77	0.43
1:G:1348:ASP:OD1	1:G:1348:ASP:N	2.51	0.43
1:A:310:VAL:O	1:B:56:ALA:N	2.48	0.43
1:A:1225:LEU:CD2	1:A:1234:PRO:HG3	2.44	0.43
1:B:205:LEU:HD21	1:B:1106:TYR:HE2	1.84	0.43
1:B:365:ALA:HB1	1:B:376:PHE:CE1	2.53	0.43
1:B:441:PHE:CE2	1:B:1340:PRO:HD3	2.54	0.43
1:B:842:MET:CG	4:h:61:LEU:CD2	2.96	0.43
1:C:347:ASN:ND2	1:C:348:ARG:HG3	2.33	0.43
1:C:667:ASP:O	1:C:671:VAL:HG23	2.19	0.43
1:C:1208:ARG:HD2	1:C:1241:THR:HG22	2.00	0.43
1:D:541:LEU:HA	1:D:541:LEU:HD23	1.67	0.43
1:D:840:GLN:CD	4:j:58:ALA:HA	2.43	0.43
1:D:1314:PRO:CB	1:D:1315:PRO:CD	2.96	0.43
1:E:293:LEU:C	1:E:295:VAL:N	2.76	0.43
1:E:392:TYR:CE2	1:E:394:LEU:HB2	2.53	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:200:PRO:HG2	1:F:223:LEU:HD13	2.00	0.43
1:F:805:TRP:CD2	1:F:809:HIS:HE1	2.37	0.43
1:F:976:PHE:CE2	1:F:981:ARG:HD2	2.54	0.43
1:F:1346:ALA:HB2	1:F:1362:LEU:HD11	2.00	0.43
1:H:156:HIS:CE1	1:H:160:ARG:HE	2.37	0.43
1:H:258:SER:OG	1:H:259:VAL:N	2.51	0.43
1:H:544:HIS:ND1	1:H:1252:TYR:HB2	2.34	0.43
1:H:548:ASP:OD1	1:H:576:ARG:NE	2.27	0.43
1:H:758:ALA:HB1	1:H:781:GLY:N	2.30	0.43
1:H:933:LEU:HG	1:H:960:VAL:CG1	2.49	0.43
1:H:1055:GLN:HB3	1:H:1310:GLN:HE22	1.83	0.43
1:I:68:VAL:HG21	1:I:384:ILE:HG22	2.00	0.43
1:I:87:LEU:HA	1:I:90:MET:HG2	2.00	0.43
1:I:380:LEU:HD12	1:I:385:TYR:HD2	1.84	0.43
1:I:657:ASN:HA	1:I:660:ARG:NH1	2.34	0.43
1:I:946:ASP:CA	1:J:676:THR:HG21	2.49	0.43
1:I:1125:LEU:HD22	1:I:1156:ARG:NH1	2.34	0.43
1:I:1346:ALA:HB2	1:I:1362:LEU:HD11	2.01	0.43
1:J:597:LEU:O	1:J:601:VAL:HG13	2.18	0.43
1:J:638:GLU:HB3	1:J:789:ALA:HB2	2.01	0.43
1:J:785:HIS:CE1	1:J:800:HIS:CD2	3.06	0.43
1:J:976:PHE:CE2	1:J:981:ARG:HD2	2.54	0.43
1:J:1042:THR:HG22	1:J:1042:THR:O	2.18	0.43
1:J:1050:PHE:CB	1:J:1187:PHE:HD1	2.32	0.43
1:J:1157:LEU:HD21	1:J:1309:VAL:HG11	2.00	0.43
1:K:487:TYR:HD2	1:K:520:TRP:CZ2	2.37	0.43
1:K:724:HIS:CE1	1:K:1028:TYR:HB2	2.54	0.43
1:L:155:LEU:O	1:L:158:GLN:N	2.52	0.43
1:L:367:LEU:HD23	1:L:376:PHE:HA	2.01	0.43
1:L:976:PHE:CE2	1:L:981:ARG:HD2	2.54	0.43
1:L:1347:ARG:O	1:L:1348:ASP:CB	2.66	0.43
1:M:759:GLY:CA	1:M:781:GLY:N	2.82	0.43
1:M:815:VAL:HG12	1:M:1021:THR:HG23	2.01	0.43
1:M:1083:HIS:CE1	1:M:1090:ASN:HD22	2.37	0.43
1:M:1160:ALA:C	1:M:1161:GLN:HG2	2.43	0.43
1:M:1369:LEU:HD13	1:M:1372:LEU:HD12	2.01	0.43
1:N:288:LEU:HD12	1:N:288:LEU:HA	1.87	0.43
1:N:606:MET:HG3	1:N:696:HIS:CD2	2.53	0.43
1:N:732:LEU:HD23	1:N:745:HIS:CD2	2.54	0.43
1:N:770:ASN:O	1:N:774:ALA:N	2.40	0.43
1:N:867:PRO:CG	4:s:78:MET:O	2.66	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:889:PRO:O	1:N:893:THR:HG23	2.18	0.43
1:P:151:THR:O	1:P:152:GLY:C	2.57	0.43
1:P:296:GLU:C	1:P:298:THR:N	2.75	0.43
1:P:1080:VAL:HG22	1:P:1093:LEU:CD2	2.49	0.43
2:Q:211:TYR:CD1	2:R:241:LEU:HD23	2.53	0.43
2:R:44:ALA:HA	2:R:135:LEU:HD13	2.00	0.43
3:S:220:ALA:N	3:S:223:ARG:HH21	2.16	0.43
2:T:12:ILE:HB	2:T:81:THR:HA	2.01	0.43
2:T:24:LEU:HD21	2:T:130:LEU:HD11	2.01	0.43
2:T:123:GLY:C	2:T:124:GLN:HE21	2.26	0.43
2:T:197:SER:O	2:T:200:THR:HG22	2.17	0.43
2:T:289:LEU:HD23	2:T:289:LEU:HA	1.75	0.43
2:W:94:HIS:HE2	3:Y:459:PRO:CD	2.32	0.43
2:W:116:LEU:CD1	2:W:141:VAL:HB	2.48	0.43
2:W:123:GLY:C	2:W:124:GLN:HE21	2.26	0.43
3:Y:113:GLN:HG3	3:Y:114:VAL:N	2.34	0.43
2:a:295:VAL:CG2	2:a:314:VAL:CG1	2.96	0.43
2:d:267:ARG:NH1	3:e:145:ARG:CB	2.75	0.43
4:f:18:ARG:O	4:f:19:ALA:CB	2.67	0.43
4:i:1:MET:H2	4:i:5:GLN:HB3	1.83	0.43
4:i:22:MET:HA	4:i:25:LEU:HD12	2.00	0.43
4:j:22:MET:HE2	4:j:25:LEU:CD1	2.48	0.43
4:n:67:THR:O	4:n:67:THR:OG1	2.37	0.43
4:p:67:THR:OG1	4:p:67:THR:O	2.37	0.43
4:q:41:PRO:HD2	4:q:42:HIS:H	1.84	0.43
4:r:107:LYS:HG2	4:r:108:THR:N	2.34	0.43
4:t:22:MET:HA	4:t:25:LEU:HD12	2.00	0.43
4:t:27:LEU:HD12	4:t:27:LEU:HA	1.92	0.43
1:G:242:GLU:CA	1:G:245:GLU:OE1	2.67	0.43
1:G:263:ARG:NH1	1:G:359:GLN:HE22	2.16	0.43
1:G:756:ILE:HD12	1:G:756:ILE:HA	1.69	0.43
1:G:788:GLN:O	1:G:788:GLN:HG2	2.19	0.43
1:G:1296:THR:HG23	1:G:1327:LEU:HD13	2.00	0.43
1:A:755:ARG:O	1:A:755:ARG:HG2	2.19	0.43
1:A:1202:PRO:HA	1:A:1331:ALA:O	2.18	0.43
1:B:247:TRP:CE3	1:B:248:LEU:HD12	2.54	0.43
1:B:295:VAL:CG1	1:B:297:ASP:HB3	2.49	0.43
1:B:472:ALA:HA	1:B:1250:PHE:HB3	2.01	0.43
1:B:618:PHE:O	1:B:941:ALA:HB2	2.19	0.43
1:B:735:LEU:HD22	1:B:936:GLY:HA3	2.00	0.43
1:B:841:ASN:C	1:B:874:THR:HG1	2.27	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1058:PHE:CE1	1:B:1118:PRO:HB3	2.54	0.43
1:C:871:VAL:HG12	1:C:872:ALA:N	2.33	0.43
1:C:1115:VAL:CG1	1:C:1374:LEU:HD11	2.49	0.43
1:D:35:LEU:HG	1:L:1291:ARG:NH2	2.34	0.43
1:D:1063:VAL:HG22	1:D:1111:ALA:HB3	2.01	0.43
1:E:9:PRO:CG	1:H:94:ARG:NE	2.82	0.43
1:E:841:ASN:C	1:E:874:THR:HG1	2.24	0.43
1:E:890:ALA:O	1:E:893:THR:OG1	2.31	0.43
1:E:948:THR:O	4:l:91:SER:O	2.36	0.43
1:F:385:TYR:CZ	1:F:393:PRO:HD3	2.54	0.43
1:F:443:TRP:HA	1:F:448:GLN:O	2.18	0.43
1:H:646:ARG:HD2	4:m:79:PHE:CB	2.49	0.43
1:I:258:SER:CB	1:I:1069:ALA:O	2.66	0.43
1:I:754:CYS:SG	1:I:908:LEU:CD1	3.00	0.43
1:I:1068:ARG:CG	1:I:1068:ARG:HH11	2.32	0.43
1:I:1118:PRO:HD3	1:I:1374:LEU:HD22	1.99	0.43
1:I:1125:LEU:HD12	1:I:1126:PRO:CD	2.49	0.43
1:I:1296:THR:OG1	1:I:1327:LEU:HD12	2.18	0.43
1:J:87:LEU:HG	1:J:1096:PRO:HB2	1.99	0.43
1:J:478:HIS:CG	1:J:479:ASP:N	2.87	0.43
1:J:580:GLY:O	1:J:1005:PRO:HB2	2.19	0.43
1:J:1206:ARG:HG2	1:J:1247:SER:HA	2.00	0.43
1:K:155:LEU:CD2	1:K:158:GLN:NE2	2.80	0.43
1:K:263:ARG:HH12	1:K:307:GLY:HA3	1.69	0.43
1:K:274:VAL:HG11	1:K:376:PHE:CD2	2.54	0.43
1:K:288:LEU:HD13	1:K:288:LEU:HA	1.85	0.43
1:K:1173:ARG:HH12	1:P:1218:LYS:HE2	1.83	0.43
1:K:1188:ILE:HD11	1:K:1273:CYS:SG	2.59	0.43
1:K:1339:ASP:OD1	1:P:413:MET:SD	2.77	0.43
1:L:33:ARG:CZ	1:L:39:PHE:HB3	2.49	0.43
1:L:268:ASP:O	1:L:269:THR:HG23	2.19	0.43
1:L:551:ALA:HB2	1:L:571:ILE:HG22	2.01	0.43
1:L:873:ASN:OD1	4:f:92:PHE:CA	2.67	0.43
1:M:399:ASP:CG	1:M:1321:VAL:HG11	2.43	0.43
1:M:627:PHE:CE1	1:M:651:CYS:HB3	2.54	0.43
1:M:674:ILE:HG23	1:M:678:LEU:HD12	2.01	0.43
1:M:696:HIS:HE1	1:M:1021:THR:CG2	2.29	0.43
1:M:1059:VAL:O	1:M:1116:ARG:N	2.41	0.43
1:N:490:TYR:HE1	1:N:556:VAL:HG11	1.84	0.43
1:N:624:PRO:HB3	1:N:882:GLY:HA3	2.00	0.43
1:O:93:GLY:HA3	1:O:124:ILE:HD12	2.01	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:180:THR:HA	1:O:1097:ARG:HH12	1.84	0.43
1:O:280:THR:HG22	1:O:1063:VAL:CG1	2.48	0.43
1:O:492:ALA:O	1:O:993:ALA:HA	2.19	0.43
1:O:671:VAL:O	1:O:675:VAL:HG23	2.19	0.43
1:O:1229:HIS:NE2	1:O:1241:THR:HG23	2.33	0.43
1:P:280:THR:HG22	1:P:281:THR:H	1.84	0.43
1:P:445:LYS:HD2	1:P:1118:PRO:CG	2.35	0.43
1:P:1121:ASP:OD1	1:P:1122:MET:N	2.52	0.43
2:Q:182:ASN:OD1	2:Q:183:GLY:N	2.52	0.43
2:R:236:TYR:O	2:R:237:VAL:CB	2.57	0.43
2:R:246:VAL:O	2:R:247:THR:C	2.60	0.43
2:R:315:ILE:O	2:R:316:ARG:O	2.37	0.43
2:T:10:ILE:O	2:T:83:ILE:N	2.47	0.43
2:T:207:LEU:HD13	2:U:237:VAL:HG22	2.01	0.43
2:U:316:ARG:CG	2:U:317:TYR:H	2.32	0.43
2:a:30:ARG:HD3	2:a:139:PHE:CZ	2.54	0.43
3:b:149:PRO:HA	3:b:150:PRO:HD3	1.76	0.43
3:b:254:TRP:N	3:b:254:TRP:CD2	2.72	0.43
3:b:346:LEU:HD22	3:b:346:LEU:HA	1.79	0.43
3:e:32:PRO:O	3:e:36:VAL:CG2	2.67	0.43
3:e:130:LEU:HD21	3:e:425:LEU:HD11	2.01	0.43
3:e:279:PRO:HB3	3:e:285:ALA:H	1.83	0.43
3:e:299:GLU:HG2	3:e:300:LEU:H	1.83	0.43
4:f:9:PRO:HB2	4:f:18:ARG:O	2.08	0.43
4:o:67:THR:OG1	4:o:67:THR:O	2.37	0.43
1:G:492:ALA:O	1:G:993:ALA:HA	2.19	0.42
1:G:641:PHE:CZ	1:G:673:TYR:HB3	2.54	0.42
1:G:667:ASP:O	1:G:671:VAL:HG23	2.19	0.42
1:G:785:HIS:NE2	1:G:798:ARG:O	2.44	0.42
1:A:212:THR:C	1:A:214:VAL:H	2.26	0.42
1:A:401:THR:HA	1:A:1055:GLN:HA	2.01	0.42
1:A:532:MET:HA	1:A:1240:ALA:H	1.84	0.42
1:A:1008:GLN:HE22	1:A:1011:ARG:HH11	1.67	0.42
1:A:1222:VAL:O	1:A:1223:ILE:HG13	2.19	0.42
1:B:141:ALA:O	1:B:146:GLU:OE1	2.37	0.42
1:B:696:HIS:CE1	1:B:1021:THR:HG21	2.54	0.42
1:B:1296:THR:OG1	1:B:1327:LEU:HD12	2.18	0.42
1:C:285:LYS:HE2	1:C:377:LEU:HB3	2.01	0.42
1:C:521:VAL:HG22	1:C:521:VAL:O	2.19	0.42
1:C:1181:GLN:NE2	1:C:1310:GLN:HA	2.34	0.42
1:C:1364:TYR:CD2	1:C:1365:ASP:N	2.87	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:97:PHE:HE1	1:D:122:LYS:CD	2.30	0.42
1:D:674:ILE:HG23	1:D:678:LEU:HD12	1.99	0.42
1:E:1279:ALA:O	1:E:1280:ALA:C	2.62	0.42
1:F:626:VAL:CG1	1:F:878:MET:HG3	2.49	0.42
1:F:788:GLN:HG2	1:F:790:ARG:O	2.19	0.42
1:F:844:VAL:HG12	4:l:68:HIS:CB	2.49	0.42
1:F:933:LEU:HD11	1:F:958:LEU:HD23	2.01	0.42
1:H:671:VAL:HG13	1:H:690:TYR:HD1	1.84	0.42
1:H:828:ALA:HB1	1:H:956:TYR:O	2.19	0.42
1:H:840:GLN:H	1:H:840:GLN:HG2	1.64	0.42
1:H:1067:GLU:CG	1:H:1107:THR:HG23	2.49	0.42
1:I:138:GLU:O	1:I:142:LEU:HD23	2.19	0.42
1:I:729:PRO:C	1:I:745:HIS:CE1	2.97	0.42
1:I:828:ALA:HA	1:I:957:VAL:O	2.19	0.42
1:J:280:THR:HG22	1:J:1063:VAL:HG11	2.01	0.42
1:J:599:LEU:O	1:J:603:ARG:NH1	2.52	0.42
1:J:1344:ARG:C	1:J:1347:ARG:HD2	2.31	0.42
1:K:11:TYR:HB2	1:K:38:PHE:CD2	2.54	0.42
1:K:316:LEU:O	1:K:320:LEU:HG	2.19	0.42
1:K:388:THR:HG22	1:P:102:PRO:HB2	2.00	0.42
1:K:488:GLY:CA	1:K:520:TRP:CH2	3.01	0.42
1:K:1070:SER:HB3	1:K:1107:THR:HG23	1.73	0.42
1:K:1201:ARG:HH22	1:L:446:ASP:HB3	1.84	0.42
1:L:426:ALA:HB3	1:L:429:HIS:HD2	1.73	0.42
1:L:627:PHE:CE1	1:L:651:CYS:HB3	2.54	0.42
1:L:1223:ILE:HA	1:L:1226:MET:HB3	2.00	0.42
1:L:1342:LEU:O	1:L:1345:SER:OG	2.27	0.42
1:M:836:TYR:O	4:f:54:LEU:HD22	2.19	0.42
1:M:837:ALA:CA	4:f:54:LEU:CD2	2.69	0.42
1:M:976:PHE:HZ	1:M:984:ALA:HB2	1.84	0.42
1:M:1057:ARG:HH12	1:M:1321:VAL:HG21	1.82	0.42
1:N:384:ILE:HD13	1:N:384:ILE:HG21	1.84	0.42
1:N:1174:ARG:NH1	1:N:1182:ASP:OD2	2.52	0.42
1:O:627:PHE:CE1	1:O:651:CYS:HB3	2.54	0.42
1:O:832:PHE:HB3	1:O:836:TYR:CE2	2.54	0.42
1:P:756:ILE:CG1	1:P:757:ASP:N	2.79	0.42
2:Q:228:LEU:HD23	2:Q:238:ASN:HA	2.00	0.42
2:R:60:THR:O	2:R:60:THR:OG1	2.29	0.42
2:R:99:ASN:CB	2:R:311:MET:HE3	2.31	0.42
3:S:347:PHE:HB3	3:S:350:LEU:CD1	2.49	0.42
2:U:37:ILE:C	2:U:38:ARG:HG2	2.45	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:V:278:HIS:N	3:V:279:PRO:CD	2.73	0.42
2:X:246:VAL:CG1	2:X:247:THR:N	2.82	0.42
2:X:316:ARG:CG	2:X:317:TYR:H	2.32	0.42
3:Y:120:CYS:CB	3:Y:184:LEU:O	2.64	0.42
3:Y:245:MET:HB2	3:Y:245:MET:HE2	1.60	0.42
2:a:79:LEU:CD1	2:a:82:ARG:NH2	2.82	0.42
2:a:92:LEU:HD22	2:a:314:VAL:HG12	2.01	0.42
2:a:161:ARG:CD	2:a:173:LEU:CD2	2.93	0.42
2:c:123:GLY:C	2:c:124:GLN:HE21	2.26	0.42
2:d:195:LEU:HD13	2:d:195:LEU:HA	1.86	0.42
3:e:41:ILE:O	3:e:41:ILE:HG13	2.19	0.42
4:h:29:THR:O	4:i:98:TYR:O	2.37	0.42
4:h:41:PRO:HD2	4:h:42:HIS:H	1.84	0.42
4:j:41:PRO:HD2	4:j:42:HIS:H	1.84	0.42
4:r:22:MET:HA	4:r:25:LEU:HD12	2.00	0.42
4:s:67:THR:OG1	4:s:67:THR:O	2.37	0.42
1:G:244:ILE:O	1:G:247:TRP:N	2.51	0.42
1:G:298:THR:HG23	1:G:362:ARG:HG2	2.00	0.42
1:G:408:LEU:CD1	1:G:1196:ILE:HD13	2.50	0.42
1:G:562:GLU:CG	1:G:563:VAL:N	2.76	0.42
1:G:724:HIS:CD2	1:G:726:MET:H	2.37	0.42
1:G:802:PRO:O	1:G:805:TRP:CB	2.62	0.42
1:G:908:LEU:N	1:G:932:ALA:O	2.31	0.42
1:A:104:ILE:CB	1:B:390:VAL:HG21	2.45	0.42
1:A:106:ARG:NH1	1:B:390:VAL:HG13	2.34	0.42
1:A:836:TYR:CE2	1:A:901:MET:HB2	2.54	0.42
1:A:1078:LEU:HD23	1:A:1095:GLN:HB2	2.01	0.42
1:B:23:ILE:CD1	1:B:65:LEU:HD11	2.49	0.42
1:B:466:LEU:HD12	1:B:544:HIS:CE1	2.54	0.42
1:B:893:THR:O	1:B:896:VAL:HG23	2.19	0.42
1:B:1198:TYR:O	1:B:1199:PHE:CG	2.72	0.42
1:B:1225:LEU:HD13	1:B:1225:LEU:O	2.19	0.42
1:B:1314:PRO:HA	1:B:1315:PRO:HD3	1.84	0.42
1:C:485:ASN:O	1:C:487:TYR:N	2.49	0.42
1:C:766:ALA:O	1:C:785:HIS:CB	2.67	0.42
1:D:124:ILE:CD1	1:E:58:LEU:HD12	2.48	0.42
1:D:146:GLU:O	1:D:148:LEU:N	2.52	0.42
1:D:217:ALA:HB1	1:E:1178:ASP:O	2.19	0.42
1:D:423:LEU:HD23	1:D:423:LEU:HA	1.83	0.42
1:D:424:VAL:HG13	1:D:425:PRO:HD2	2.01	0.42
1:D:1252:TYR:CD1	1:D:1252:TYR:C	2.91	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:125:ASP:HB2	1:E:1099:ASN:OD1	2.19	0.42
1:E:816:LEU:O	1:E:819:ALA:HB3	2.19	0.42
1:H:201:MET:HG3	1:H:205:LEU:CD1	2.49	0.42
1:H:398:MET:HG3	1:H:1322:GLU:OE1	2.19	0.42
1:H:628:TYR:HB3	1:H:955:PHE:CZ	2.54	0.42
1:H:756:ILE:HD11	1:H:906:THR:HG22	2.00	0.42
1:H:844:VAL:HG11	4:m:68:HIS:CB	2.49	0.42
1:H:911:SER:HB3	1:H:929:PHE:CD1	2.54	0.42
1:H:1059:VAL:HG23	1:H:1119:VAL:CG2	2.49	0.42
1:I:397:ALA:HA	1:I:1058:PHE:O	2.19	0.42
1:I:399:ASP:CB	1:I:1321:VAL:HG11	2.43	0.42
1:I:497:PRO:HG2	1:I:500:ASP:OD1	2.19	0.42
1:I:1057:ARG:NH1	1:I:1321:VAL:HG21	2.33	0.42
1:I:1166:PHE:CZ	2:W:284:GLN:HG3	2.54	0.42
1:J:575:TRP:CH2	1:J:1030:LYS:HE2	2.52	0.42
1:J:833:ASP:O	4:o:54:LEU:HD11	2.19	0.42
1:J:842:MET:HB3	1:J:875:VAL:HG12	2.01	0.42
1:J:1188:ILE:O	1:J:1190:THR:HG23	2.19	0.42
1:K:201:MET:HE2	1:K:1290:GLU:HA	2.01	0.42
1:K:544:HIS:CD2	1:K:546:ALA:HB3	2.54	0.42
1:K:666:ASN:N	1:K:940:MET:HE1	2.34	0.42
1:L:268:ASP:O	1:L:269:THR:CB	2.67	0.42
1:L:304:VAL:HG21	1:L:358:PRO:CB	2.48	0.42
1:L:316:LEU:O	1:L:319:ALA:N	2.52	0.42
1:M:277:VAL:HG12	1:M:278:LEU:N	2.34	0.42
1:M:320:LEU:O	1:M:321:VAL:HB	2.18	0.42
1:M:1274:PHE:CD1	1:M:1274:PHE:C	2.96	0.42
1:M:1291:ARG:O	1:M:1293:ILE:N	2.52	0.42
1:N:369:ALA:HA	1:N:373:ARG:O	2.19	0.42
1:N:403:VAL:HG21	1:N:1331:ALA:CB	2.48	0.42
1:N:785:HIS:CE1	1:N:795:ALA:C	2.89	0.42
1:N:1084:GLU:OE1	1:N:1084:GLU:HA	2.18	0.42
1:O:374:LEU:HD23	1:O:374:LEU:HA	1.87	0.42
1:O:475:GLY:O	1:O:478:HIS:HD2	2.01	0.42
1:O:752:ARG:O	1:O:753:ASP:OD2	2.37	0.42
1:O:978:PRO:O	1:O:981:ARG:HG2	2.18	0.42
1:O:1349:GLY:C	1:O:1351:ALA:N	2.75	0.42
1:P:305:THR:HG23	1:P:306:TYR:H	1.83	0.42
2:Q:206:VAL:O	2:Q:210:VAL:HG23	2.19	0.42
2:R:44:ALA:HB2	2:R:135:LEU:HD11	2.01	0.42
3:V:81:ASP:C	3:V:85:GLN:CG	2.87	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:W:6:PHE:O	2:W:6:PHE:CD2	2.72	0.42
2:X:38:ARG:NE	3:Y:305:PRO:CG	2.65	0.42
2:X:199:ASN:O	2:X:203:ARG:N	2.37	0.42
3:Y:420:ALA:O	3:Y:464:ALA:HB1	2.19	0.42
2:Z:206:VAL:O	2:Z:210:VAL:HG23	2.20	0.42
2:a:86:CYS:CB	2:a:98:VAL:HG21	2.48	0.42
2:a:195:LEU:HD13	2:a:195:LEU:HA	1.86	0.42
2:a:316:ARG:CG	2:a:317:TYR:H	2.32	0.42
3:b:313:VAL:CG2	3:b:330:VAL:HG12	2.42	0.42
3:e:198:TYR:CE1	3:e:200:ALA:HB3	2.54	0.42
3:e:198:TYR:HE1	3:e:200:ALA:HB3	1.84	0.42
3:e:257:GLN:O	3:e:258:ASP:C	2.58	0.42
4:f:41:PRO:HD2	4:f:42:HIS:H	1.84	0.42
4:h:22:MET:C	4:h:25:LEU:HB2	2.40	0.42
4:k:9:PRO:HB3	4:k:17:VAL:CB	2.49	0.42
4:m:22:MET:HA	4:m:25:LEU:HD12	2.00	0.42
4:n:41:PRO:HD2	4:n:42:HIS:H	1.84	0.42
4:o:104:ARG:O	4:o:106:PRO:HD2	2.18	0.42
4:t:41:PRO:HD2	4:t:42:HIS:H	1.84	0.42
1:G:126:ARG:NH2	2:Q:82:ARG:HH12	2.17	0.42
1:G:277:VAL:N	1:G:1066:SER:O	2.52	0.42
1:G:589:VAL:O	1:G:593:ASP:N	2.42	0.42
1:G:1188:ILE:CG2	1:G:1246:ALA:HB2	2.50	0.42
1:G:1277:PHE:O	1:G:1278:THR:CB	2.67	0.42
1:A:311:LEU:CD2	1:A:347:ASN:OD1	2.67	0.42
1:A:416:PHE:CE2	1:B:1341:ALA:HB2	2.54	0.42
1:A:815:VAL:HG12	1:A:1021:THR:HG23	2.01	0.42
1:A:1049:GLY:O	1:A:1190:THR:N	2.51	0.42
1:A:1329:GLN:C	1:A:1330:GLU:HG3	2.44	0.42
1:B:42:VAL:HG12	1:B:42:VAL:O	2.18	0.42
1:B:466:LEU:HD12	1:B:466:LEU:C	2.40	0.42
1:D:122:LYS:HD2	1:I:36:PHE:HE1	1.76	0.42
1:D:403:VAL:C	1:D:404:LEU:HD12	2.44	0.42
1:D:419:HIS:CG	1:D:420:ALA:N	2.85	0.42
1:D:629:LEU:O	1:D:633:ALA:N	2.52	0.42
1:D:742:LEU:HD22	1:D:765:TYR:OH	2.18	0.42
1:D:960:VAL:HG23	1:D:961:HIS:N	2.34	0.42
1:D:1301:SER:HB3	1:D:1321:VAL:CG1	2.50	0.42
1:E:45:ASP:OD2	1:E:50:TYR:OH	2.34	0.42
1:E:847:ILE:HG21	4:k:71:ASN:N	2.27	0.42
1:F:108:GLY:HA3	1:F:109:PRO:HD2	1.68	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:416:PHE:CD1	1:F:416:PHE:C	2.97	0.42
1:F:917:GLY:O	1:F:1033:PRO:CD	2.57	0.42
1:F:1157:LEU:HD22	1:F:1269:VAL:HG21	2.00	0.42
1:F:1317:CYS:O	1:F:1318:ARG:HG3	2.19	0.42
1:F:1328:PHE:O	1:F:1329:GLN:HB3	2.19	0.42
1:H:13:TYR:C	1:H:15:ALA:N	2.77	0.42
1:H:502:GLN:NE2	1:H:970:VAL:HG13	2.35	0.42
1:H:543:LEU:HD23	1:H:1250:PHE:O	2.18	0.42
1:H:635:HIS:HE1	1:H:640:VAL:HG21	1.82	0.42
1:H:1037:TYR:O	1:H:1041:LYS:CG	2.66	0.42
1:I:219:LEU:HD23	1:I:1289:LEU:CD1	2.49	0.42
1:I:840:GLN:CB	1:I:894:LEU:CD2	2.96	0.42
1:I:1249:ARG:O	1:I:1250:PHE:CB	2.64	0.42
1:J:185:LEU:H	1:J:185:LEU:HD12	1.83	0.42
1:J:233:PHE:CE2	1:J:237:ALA:HB3	2.54	0.42
1:J:548:ASP:O	1:J:573:ALA:HA	2.19	0.42
1:J:1106:TYR:O	1:J:1107:THR:CB	2.68	0.42
1:J:1125:LEU:HD12	1:J:1126:PRO:CD	2.47	0.42
1:K:82:THR:HG21	1:K:327:ARG:HH22	1.83	0.42
1:K:100:HIS:HE2	1:L:62:CYS:HG	1.68	0.42
1:K:132:ALA:CB	1:P:112:VAL:CG1	2.97	0.42
1:K:571:ILE:HG21	1:K:571:ILE:HD13	1.76	0.42
1:L:179:GLY:O	1:L:183:GLN:HB2	2.18	0.42
1:L:234:LEU:O	1:L:1114:THR:CG2	2.65	0.42
1:L:279:VAL:O	1:L:394:LEU:CD1	2.66	0.42
1:L:445:LYS:CD	1:L:1118:PRO:HG2	2.48	0.42
1:L:486:PRO:CG	1:L:564:PRO:CG	2.88	0.42
1:L:838:THR:HG23	4:f:94:LEU:HA	2.01	0.42
1:M:156:HIS:HE1	1:M:160:ARG:HH11	1.67	0.42
1:M:248:LEU:HD21	1:M:288:LEU:HD12	2.01	0.42
1:M:448:GLN:HE21	1:M:450:LEU:CD2	2.32	0.42
1:M:454:MET:O	1:M:1040:LEU:HD22	2.20	0.42
1:M:1057:ARG:NH1	1:M:1321:VAL:CG2	2.82	0.42
1:M:1201:ARG:HD3	1:N:448:GLN:OE1	2.20	0.42
1:N:275:ASP:OD1	1:N:275:ASP:N	2.51	0.42
1:N:378:GLU:CG	1:N:379:ALA:N	2.82	0.42
1:N:1155:ASN:HB2	1:N:1158:GLY:H	1.84	0.42
1:N:1198:TYR:CD1	1:N:1198:TYR:C	2.97	0.42
1:O:135:LEU:HD11	1:O:165:LEU:HD13	2.01	0.42
1:O:579:ASN:HA	1:O:1031:MET:CE	2.49	0.42
1:O:752:ARG:HB2	1:O:911:SER:OG	2.19	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:1008:GLN:HE21	1:O:1012:GLU:HB2	1.84	0.42
1:P:405:PRO:HB3	1:P:408:LEU:HD12	2.01	0.42
2:R:295:VAL:HG22	2:R:314:VAL:CG1	2.49	0.42
2:R:316:ARG:CG	2:R:317:TYR:H	2.32	0.42
3:S:275:HIS:O	3:S:275:HIS:CD2	2.72	0.42
2:T:37:ILE:CD1	2:U:298:CYS:HG	2.31	0.42
2:T:227:LEU:CD1	2:T:228:LEU:HD11	2.24	0.42
2:W:24:LEU:HD21	2:W:130:LEU:HD11	2.01	0.42
2:W:206:VAL:O	2:W:210:VAL:HG23	2.19	0.42
3:Y:241:PRO:C	3:Y:242:HIS:O	2.60	0.42
3:Y:419:TYR:CD1	3:Y:419:TYR:N	2.85	0.42
2:Z:163:LEU:HD12	2:Z:163:LEU:HA	1.77	0.42
2:d:44:ALA:HB2	2:d:135:LEU:HD11	2.01	0.42
2:d:129:ARG:HD2	2:d:136:THR:HG22	2.01	0.42
3:e:117:THR:HG22	3:e:122:PRO:HD2	2.01	0.42
3:e:134:LEU:HD12	3:e:134:LEU:HA	1.88	0.42
4:g:22:MET:HE2	4:g:25:LEU:CD1	2.48	0.42
4:i:3:ALA:HB2	4:i:38:ASN:CG	2.44	0.42
4:q:106:PRO:O	4:q:107:LYS:HB2	2.20	0.42
4:r:8:ARG:HA	4:r:9:PRO:HA	1.16	0.42
1:G:59:GLY:O	1:G:60:SER:OG	2.37	0.42
1:G:233:PHE:HZ	1:G:243:ALA:O	2.01	0.42
1:G:836:TYR:OH	1:G:902:ALA:HB3	2.19	0.42
1:G:861:PRO:HA	1:G:866:HIS:CD2	2.54	0.42
1:G:1072:ALA:HB2	1:G:1102:LEU:CD1	2.49	0.42
1:G:1228:ASP:C	1:G:1230:GLY:N	2.77	0.42
1:A:72:GLU:HA	1:A:363:VAL:HG11	2.02	0.42
1:A:410:ASN:ND2	1:A:414:GLU:O	2.53	0.42
1:A:541:LEU:HD23	1:A:541:LEU:HA	1.71	0.42
1:A:895:GLN:OE1	4:g:62:THR:HA	2.18	0.42
1:A:1222:VAL:C	1:A:1223:ILE:HG13	2.44	0.42
1:A:1225:LEU:HD13	1:A:1225:LEU:C	2.44	0.42
1:B:49:LEU:HD13	1:B:50:TYR:CA	2.49	0.42
1:B:248:LEU:HD11	1:B:288:LEU:HD11	2.00	0.42
1:B:289:LEU:HD11	1:B:295:VAL:CG2	2.50	0.42
1:B:884:VAL:HG12	1:B:886:VAL:HG23	2.01	0.42
1:B:956:TYR:HE1	1:B:958:LEU:HD21	1.81	0.42
1:C:274:VAL:HG22	1:C:374:LEU:HB3	2.01	0.42
1:C:596:GLY:HA3	1:C:1023:ALA:HB2	2.01	0.42
1:C:737:TRP:HZ3	1:C:935:ALA:HB1	1.83	0.42
1:C:744:ARG:NH2	1:C:803:ALA:HB2	2.35	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:918:ALA:H	1:C:1138:LEU:HD22	1.84	0.42
1:C:1210:ALA:HB3	1:C:1329:GLN:HE21	1.79	0.42
1:D:279:VAL:HA	1:D:378:GLU:O	2.20	0.42
1:D:892:LEU:HD21	4:j:65:GLY:HA2	2.01	0.42
1:E:33:ARG:NH2	1:E:39:PHE:HB3	2.35	0.42
1:E:45:ASP:OD2	1:E:50:TYR:CZ	2.70	0.42
1:E:443:TRP:HZ2	1:E:1347:ARG:HG2	1.84	0.42
1:E:1270:LEU:HD22	1:E:1303:ALA:HB2	2.01	0.42
1:F:140:ILE:HD11	1:F:1089:VAL:HG12	2.00	0.42
1:F:889:PRO:N	4:l:69:ALA:CB	2.83	0.42
1:F:1054:ARG:NH2	1:F:1123:GLY:HA3	2.34	0.42
1:F:1070:SER:C	1:F:1071:GLU:HG2	2.43	0.42
1:H:75:LEU:HD21	1:H:185:LEU:HD12	2.01	0.42
1:H:77:VAL:CG1	1:H:277:VAL:CG2	2.95	0.42
1:H:285:LYS:HG3	1:H:377:LEU:CD2	2.49	0.42
1:H:492:ALA:N	1:H:992:PRO:HB2	2.35	0.42
1:H:527:THR:HG22	1:H:528:ALA:N	2.33	0.42
1:H:1059:VAL:CG1	1:H:1116:ARG:HD3	2.49	0.42
1:H:1107:THR:HG22	1:H:1108:ALA:N	2.35	0.42
1:I:828:ALA:HB1	1:I:956:TYR:O	2.19	0.42
1:I:998:TYR:O	1:I:1003:ARG:NH2	2.52	0.42
1:J:58:LEU:HD23	1:J:58:LEU:HA	1.70	0.42
1:J:124:ILE:O	1:J:124:ILE:HG13	2.20	0.42
1:J:487:TYR:HE1	1:J:505:PHE:HZ	1.68	0.42
1:J:738:ASP:C	1:J:785:HIS:CE1	2.98	0.42
1:J:1033:PRO:O	1:J:1037:TYR:CD2	2.72	0.42
1:J:1201:ARG:C	1:J:1203:CYS:H	2.25	0.42
1:J:1291:ARG:O	1:J:1294:VAL:N	2.46	0.42
1:J:1321:VAL:HG22	1:J:1322:GLU:N	2.35	0.42
1:J:1369:LEU:HA	1:J:1372:LEU:HD12	2.01	0.42
1:K:487:TYR:CD2	1:K:520:TRP:CH2	3.07	0.42
1:K:488:GLY:HA3	1:K:520:TRP:CH2	2.54	0.42
1:K:701:ALA:O	1:K:727:ARG:NH2	2.51	0.42
1:K:734:PRO:CG	1:K:964:PHE:CE2	3.02	0.42
1:K:770:ASN:N	1:K:773:THR:HB	2.31	0.42
1:K:1073:TYR:OH	1:K:1097:ARG:HD2	2.18	0.42
1:K:1176:GLY:HA3	1:P:1225:LEU:CD2	2.48	0.42
1:L:103:LEU:O	1:M:178:ARG:HD2	2.18	0.42
1:L:452:LEU:HD21	1:L:1052:VAL:HG11	2.01	0.42
1:L:774:ALA:HB1	1:L:776:PHE:CE1	2.54	0.42
1:L:942:PRO:HB2	1:L:944:HIS:CE1	2.54	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:1125:LEU:CD1	1:L:1156:ARG:HB3	2.49	0.42
1:L:1316:GLY:CA	3:Y:179:CYS:HB2	2.31	0.42
1:L:1347:ARG:O	1:L:1348:ASP:HB2	2.19	0.42
1:M:77:VAL:CG1	1:M:78:ALA:N	2.82	0.42
1:M:84:PHE:HD2	1:M:87:LEU:HB3	1.84	0.42
1:M:97:PHE:HD1	1:N:61:TYR:HB2	1.84	0.42
1:M:756:ILE:O	1:M:756:ILE:HG13	2.19	0.42
1:N:70:PHE:HA	1:N:73:LEU:HG	2.00	0.42
1:N:178:ARG:NH1	1:N:384:ILE:HA	2.34	0.42
1:N:297:ASP:O	1:N:298:THR:CB	2.67	0.42
1:N:764:VAL:HG12	1:N:765:TYR:N	2.34	0.42
1:N:847:ILE:CG2	4:r:70:ASN:O	2.60	0.42
1:N:873:ASN:ND2	4:s:92:PHE:CB	2.82	0.42
1:N:911:SER:HB3	1:N:929:PHE:CD1	2.54	0.42
1:O:804:ASP:O	1:O:808:HIS:ND1	2.30	0.42
1:O:948:THR:O	4:t:91:SER:O	2.38	0.42
1:O:1197:ASN:ND2	1:P:449:VAL:HG11	2.34	0.42
1:O:1216:GLY:H	1:O:1221:ASP:HB2	1.85	0.42
1:O:1225:LEU:HA	1:P:1175:ALA:HB3	2.00	0.42
1:P:27:ILE:HG22	1:P:29:VAL:N	2.33	0.42
1:P:148:LEU:CD2	1:P:155:LEU:N	2.79	0.42
2:Q:6:PHE:CD2	2:Q:6:PHE:O	2.72	0.42
2:Q:207:LEU:HD13	2:R:237:VAL:HG22	2.01	0.42
3:V:120:CYS:CB	3:V:184:LEU:O	2.64	0.42
3:V:187:PHE:CE2	3:V:290:ALA:O	2.66	0.42
2:X:173:LEU:HB3	2:X:174:PRO:HD2	2.01	0.42
2:X:246:VAL:O	2:X:247:THR:C	2.60	0.42
2:a:24:LEU:O	2:a:27:CYS:HB2	2.19	0.42
2:a:30:ARG:HH11	2:a:139:PHE:CB	2.33	0.42
2:a:61:LEU:HD21	2:a:155:LEU:HB3	2.00	0.42
3:b:210:HIS:CD2	3:b:210:HIS:O	2.73	0.42
3:b:279:PRO:HG2	3:b:283:CYS:H	1.84	0.42
2:c:24:LEU:HD21	2:c:130:LEU:HD11	2.01	0.42
4:f:66:VAL:HG12	4:f:67:THR:HG22	2.02	0.42
4:i:22:MET:HE2	4:i:25:LEU:CD1	2.48	0.42
4:j:86:GLU:H	4:j:105:ASP:CB	2.32	0.42
4:m:3:ALA:HB2	4:m:38:ASN:CG	2.44	0.42
4:m:8:ARG:HA	4:m:9:PRO:HA	1.16	0.42
4:n:3:ALA:HB2	4:n:38:ASN:CG	2.44	0.42
4:o:22:MET:HE2	4:o:60:ALA:HB1	1.92	0.42
1:G:136:ALA:H	1:G:139:ALA:HB3	1.84	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:227:PHE:CD2	1:G:1328:PHE:HE2	2.37	0.42
1:G:256:GLN:C	1:G:1067:GLU:OE2	2.61	0.42
1:G:324:LYS:N	1:G:326:VAL:CG1	2.72	0.42
1:G:655:TYR:CE2	1:G:661:CYS:HB2	2.55	0.42
1:G:1200:ARG:HH11	1:G:1355:GLU:HG2	1.85	0.42
1:G:1257:TYR:HB2	1:G:1277:PHE:CD2	2.55	0.42
1:A:174:GLY:O	1:A:178:ARG:HG2	2.19	0.42
1:A:204:TYR:HD2	1:A:205:LEU:HD12	1.85	0.42
1:A:433:ARG:HD2	1:A:1360:GLN:HG3	2.01	0.42
1:A:440:LEU:O	1:A:451:ARG:HA	2.20	0.42
1:A:1341:ALA:HB2	1:F:416:PHE:CZ	2.54	0.42
1:B:842:MET:SD	4:h:61:LEU:HD22	2.59	0.42
1:B:842:MET:HE1	1:B:894:LEU:HD23	2.00	0.42
1:B:845:PRO:HG3	1:B:869:ASN:OD1	2.19	0.42
1:C:140:ILE:O	1:C:144:THR:HG22	2.18	0.42
1:C:530:GLN:C	1:C:536:ASN:ND2	2.77	0.42
1:C:949:ILE:HG23	1:C:953:GLU:OE2	2.19	0.42
1:C:1321:VAL:HG22	1:C:1322:GLU:N	2.34	0.42
1:C:1335:THR:HA	1:C:1363:ILE:O	2.20	0.42
1:D:224:LYS:NZ	1:D:1330:GLU:OE2	2.52	0.42
1:E:106:ARG:NH2	1:F:390:VAL:HG22	2.34	0.42
1:E:145:GLY:HA2	1:E:148:LEU:HD23	2.02	0.42
1:E:1026:ALA:HA	1:E:1029:PHE:CE2	2.55	0.42
1:E:1077:GLN:O	1:E:1096:PRO:HD2	2.18	0.42
1:F:26:THR:O	1:F:27:ILE:HG22	2.18	0.42
1:F:782:ARG:O	1:F:783:LEU:HD12	2.20	0.42
1:F:795:ALA:HB1	1:F:798:ARG:O	2.20	0.42
1:F:861:PRO:HA	1:F:866:HIS:CD2	2.54	0.42
1:F:1141:ASN:O	1:F:1145:VAL:HG22	2.20	0.42
1:H:106:ARG:HD3	1:H:110:HIS:CG	2.54	0.42
1:H:842:MET:HE1	1:H:894:LEU:HD23	2.01	0.42
1:H:942:PRO:HD3	1:H:969:HIS:CE1	2.54	0.42
1:H:1080:VAL:HA	1:H:1093:LEU:HD23	2.02	0.42
1:H:1197:ASN:O	1:H:1199:PHE:N	2.37	0.42
1:I:795:ALA:HB1	1:I:798:ARG:O	2.18	0.42
1:I:1128:ASN:ND2	1:I:1158:GLY:HA2	2.34	0.42
1:J:357:ALA:C	1:J:358:PRO:O	2.62	0.42
1:J:433:ARG:HB3	1:J:1357:HIS:ND1	2.35	0.42
1:J:508:ALA:HB3	1:J:509:TRP:HD1	1.85	0.42
1:J:1221:ASP:OD1	1:J:1221:ASP:N	2.52	0.42
1:J:1263:LEU:HD12	1:J:1263:LEU:C	2.44	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:54:PHE:HA	1:P:323:GLY:O	2.18	0.42
1:K:293:LEU:HD22	1:K:370:ILE:CD1	2.50	0.42
1:K:335:HIS:O	1:K:339:MET:HB2	2.20	0.42
1:K:487:TYR:HD2	1:K:520:TRP:CH2	2.38	0.42
1:K:751:HIS:O	1:K:752:ARG:HD2	2.20	0.42
1:K:837:ALA:CA	4:p:54:LEU:HD22	2.22	0.42
1:K:1143:ALA:O	1:K:1147:LEU:HB2	2.18	0.42
1:L:11:TYR:CD2	1:L:13:TYR:CD1	3.07	0.42
1:L:1166:PHE:CB	3:Y:140:LEU:HD21	2.44	0.42
1:M:466:LEU:HG	1:M:467:MET:HE3	2.00	0.42
1:M:778:ARG:HD3	1:M:903:GLU:HG3	2.01	0.42
1:M:1286:HIS:HD2	1:M:1288:CYS:SG	2.43	0.42
1:N:70:PHE:CD1	1:N:73:LEU:HD12	2.55	0.42
1:N:757:ASP:O	1:N:906:THR:HG23	2.19	0.42
1:N:1343:LEU:HD12	1:N:1343:LEU:HA	1.88	0.42
1:O:752:ARG:HH21	1:O:927:ARG:NH2	2.18	0.42
1:P:405:PRO:HG3	1:P:1199:PHE:CG	2.55	0.42
1:P:1059:VAL:HG12	1:P:1116:ARG:CB	2.49	0.42
1:P:1232:SER:HB2	1:P:1237:PRO:O	2.20	0.42
2:U:299:THR:OG1	2:U:303:ALA:O	2.29	0.42
3:V:292:ALA:HB1	3:V:294:VAL:H	1.84	0.42
2:W:161:ARG:HE	2:X:271:LEU:HD12	1.85	0.42
2:c:295:VAL:HG12	2:c:296:ARG:H	1.83	0.42
2:d:295:VAL:HG22	2:d:314:VAL:CG1	2.50	0.42
3:e:11:MET:O	3:e:15:GLU:N	2.36	0.42
3:e:138:THR:HG23	3:e:139:ASP:N	2.34	0.42
4:n:66:VAL:HG12	4:n:67:THR:HG22	2.02	0.42
4:p:3:ALA:HB2	4:p:38:ASN:CG	2.44	0.42
4:q:3:ALA:HB2	4:q:38:ASN:CG	2.44	0.42
4:q:22:MET:HE2	4:q:60:ALA:HB1	1.93	0.42
4:q:44:HIS:HD2	4:q:47:GLN:O	1.98	0.42
4:r:22:MET:O	4:r:25:LEU:CB	2.57	0.42
1:G:13:TYR:OH	1:G:364:ARG:HD2	2.20	0.42
1:G:75:LEU:HD22	1:G:277:VAL:HG11	2.01	0.42
1:G:98:GLU:CB	1:G:119:TYR:HD1	2.32	0.42
1:G:153:ILE:O	1:G:154:SER:C	2.59	0.42
1:G:369:ALA:HA	1:G:373:ARG:O	2.19	0.42
1:G:475:GLY:O	1:G:478:HIS:CD2	2.73	0.42
1:G:1128:ASN:ND2	1:G:1155:ASN:OD1	2.53	0.42
1:G:1248:GLN:HB2	1:G:1251:SER:CB	2.50	0.42
1:G:1369:LEU:HD13	1:G:1372:LEU:HD12	2.01	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:87:LEU:HA	1:A:90:MET:HG2	2.00	0.42
1:A:311:LEU:HD22	1:A:347:ASN:OD1	2.20	0.42
1:A:892:LEU:HG	4:g:65:GLY:HA2	2.00	0.42
1:B:77:VAL:N	1:B:266:HIS:CE1	2.87	0.42
1:B:299:GLU:H	1:B:365:ALA:HB3	1.85	0.42
1:B:750:ARG:HH11	1:B:750:ARG:HD3	1.71	0.42
1:B:1054:ARG:NH2	1:B:1122:MET:CA	2.83	0.42
1:C:532:MET:HA	1:C:1240:ALA:H	1.85	0.42
1:D:119:TYR:CE1	1:I:13:TYR:CE1	3.07	0.42
1:D:461:VAL:CG2	1:D:1050:PHE:CE1	3.02	0.42
1:D:737:TRP:CZ3	1:D:935:ALA:HB1	2.54	0.42
1:D:786:ASN:HB2	1:D:788:GLN:OE1	2.19	0.42
1:D:1228:ASP:OD2	1:D:1231:GLN:HB2	2.19	0.42
1:E:125:ASP:O	1:E:1098:GLY:HA2	2.19	0.42
1:E:631:GLN:NE2	1:E:667:ASP:HB2	2.35	0.42
1:E:829:GLY:HA3	1:E:905:THR:HG21	2.00	0.42
1:E:982:ASP:OD2	1:F:718:ALA:HB1	2.19	0.42
1:F:817:VAL:HG11	1:F:938:LEU:HD21	2.01	0.42
1:F:1070:SER:O	1:F:1071:GLU:HG2	2.19	0.42
1:F:1080:VAL:HG22	1:F:1093:LEU:HG	2.01	0.42
1:F:1125:LEU:HD12	1:F:1126:PRO:HD2	2.00	0.42
1:F:1133:ARG:HG3	1:F:1133:ARG:O	2.19	0.42
1:H:463:HIS:C	1:H:465:SER:H	2.27	0.42
1:H:642:CYS:O	4:m:87:TRP:CB	2.68	0.42
1:H:956:TYR:CZ	1:H:958:LEU:HD11	2.53	0.42
1:I:503:GLN:OE1	1:I:975:ASN:HB2	2.20	0.42
1:I:956:TYR:OH	1:I:958:LEU:HD11	2.20	0.42
1:J:184:MET:O	1:J:185:LEU:C	2.61	0.42
1:J:367:LEU:HB3	1:J:374:LEU:HD11	2.00	0.42
1:J:405:PRO:HG2	1:J:1361:TYR:CE1	2.55	0.42
1:J:679:GLY:HA2	1:J:687:MET:HE2	2.01	0.42
1:J:827:THR:OG1	1:J:959:PRO:HA	2.19	0.42
1:K:574:THR:HG21	1:K:998:TYR:O	2.19	0.42
1:K:616:GLY:O	1:K:620:ASP:HB2	2.19	0.42
1:K:656:TRP:O	1:K:660:ARG:HA	2.20	0.42
1:K:1073:TYR:CZ	1:K:1097:ARG:NH1	2.78	0.42
1:L:11:TYR:HD2	1:L:13:TYR:CD1	2.37	0.42
1:L:32:HIS:O	1:L:33:ARG:C	2.63	0.42
1:L:77:VAL:CG1	1:L:277:VAL:HG22	2.48	0.42
1:L:949:ILE:HG23	1:L:953:GLU:OE1	2.19	0.42
1:L:1055:GLN:HE22	1:L:1275:LYS:NZ	2.17	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:67:LEU:HD11	1:M:170:GLN:HE21	1.83	0.42
1:M:378:GLU:CD	1:M:380:LEU:HD23	2.42	0.42
1:M:544:HIS:HD1	1:M:1252:TYR:CB	2.31	0.42
1:M:611:ILE:HG23	1:M:820:PHE:HE1	1.83	0.42
1:N:263:ARG:O	1:N:358:PRO:HG3	2.19	0.42
1:N:534:PRO:CD	1:N:1229:HIS:O	2.67	0.42
1:N:606:MET:HB2	1:N:1018:ASN:HD21	1.85	0.42
1:N:1278:THR:O	1:N:1279:ALA:CB	2.67	0.42
1:N:1314:PRO:HG2	1:N:1317:CYS:CB	2.47	0.42
1:N:1354:ARG:HH22	1:N:1357:HIS:CD2	2.19	0.42
1:O:945:LEU:O	1:P:676:THR:HG21	2.19	0.42
1:P:241:ARG:O	1:P:245:GLU:HG2	2.20	0.42
1:P:758:ALA:O	1:P:781:GLY:CA	2.66	0.42
1:P:895:GLN:HB2	4:t:62:THR:HG22	2.01	0.42
3:S:113:GLN:HG3	3:S:114:VAL:N	2.34	0.42
3:S:167:ALA:HB2	3:S:226:ARG:NE	2.33	0.42
3:S:310:LEU:O	3:S:424:GLU:HA	2.20	0.42
3:S:347:PHE:CB	3:S:350:LEU:CD1	2.98	0.42
3:V:198:TYR:CE1	3:V:294:VAL:HG12	2.52	0.42
2:X:44:ALA:HB2	2:X:135:LEU:HD11	2.01	0.42
2:X:128:VAL:HG11	2:X:137:LEU:O	2.17	0.42
2:X:295:VAL:HG22	2:X:314:VAL:CG1	2.50	0.42
3:Y:220:ALA:N	3:Y:223:ARG:HH21	2.16	0.42
3:Y:292:ALA:HB1	3:Y:294:VAL:H	1.84	0.42
2:Z:298:CYS:SG	3:b:111:THR:HB	2.59	0.42
2:c:182:ASN:CG	2:c:183:GLY:N	2.78	0.42
2:c:206:VAL:O	2:c:210:VAL:HG23	2.20	0.42
3:e:113:GLN:HG3	3:e:114:VAL:N	2.34	0.42
3:e:292:ALA:HB1	3:e:294:VAL:H	1.84	0.42
3:e:310:LEU:O	3:e:424:GLU:HA	2.20	0.42
4:q:22:MET:HE1	4:q:57:GLN:C	2.45	0.42
4:r:44:HIS:HD2	4:r:47:GLN:O	1.98	0.42
4:r:67:THR:OG1	4:r:67:THR:O	2.37	0.42
4:s:9:PRO:CB	4:s:19:ALA:H	2.31	0.42
1:G:77:VAL:HG23	1:G:277:VAL:CG2	2.32	0.42
1:G:187:VAL:O	1:G:191:LYS:CG	2.42	0.42
1:G:472:ALA:HB2	1:G:1255:LEU:HD11	2.00	0.42
1:G:756:ILE:O	1:G:756:ILE:HG23	2.20	0.42
1:G:1039:GLN:OE1	1:G:1046:PRO:HB3	2.19	0.42
1:A:75:LEU:HD23	1:A:380:LEU:HD11	2.01	0.42
1:A:208:GLY:CA	1:B:389:ASN:CA	2.94	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:266:HIS:CE1	1:A:303:PRO:HD2	2.54	0.42
1:A:624:PRO:HB2	1:A:626:VAL:HG22	2.00	0.42
1:B:75:LEU:HD21	1:B:185:LEU:HD12	2.02	0.42
1:B:256:GLN:O	1:B:1107:THR:HG22	2.19	0.42
1:B:280:THR:HG22	1:B:1063:VAL:HG13	2.02	0.42
1:B:1229:HIS:CE1	1:B:1248:GLN:HA	2.55	0.42
1:C:579:ASN:C	1:C:582:LEU:CD1	2.88	0.42
1:C:755:ARG:HB2	1:C:755:ARG:NH1	2.35	0.42
1:C:1208:ARG:NH1	1:C:1232:SER:O	2.52	0.42
1:D:198:LEU:CD2	1:D:254:ALA:HB1	2.49	0.42
1:D:238:GLY:HA2	1:D:244:ILE:HD11	2.02	0.42
1:D:339:MET:HE3	1:E:159:LEU:HD23	2.00	0.42
1:D:460:THR:HG23	1:D:1129:PHE:CZ	2.54	0.42
1:D:701:ALA:O	1:D:727:ARG:NH2	2.52	0.42
1:D:828:ALA:N	1:D:937:VAL:O	2.53	0.42
1:D:835:VAL:HG12	1:D:839:LEU:HG	2.01	0.42
1:D:840:GLN:O	4:j:57:GLN:NE2	2.53	0.42
1:E:99:VAL:HG13	1:E:118:ASN:HD22	1.85	0.42
1:E:280:THR:HG22	1:E:1063:VAL:HG12	2.01	0.42
1:E:778:ARG:O	1:E:904:ARG:NE	2.53	0.42
1:E:1051:THR:CG2	1:E:1188:ILE:HB	2.49	0.42
1:E:1120:THR:O	1:E:1120:THR:HG23	2.19	0.42
1:F:79:CYS:HB3	1:F:184:MET:HE2	2.01	0.42
1:F:175:ALA:O	1:F:179:GLY:N	2.46	0.42
1:F:320:LEU:HD12	1:F:321:VAL:HG23	2.01	0.42
1:F:462:CYS:HB3	1:F:1037:TYR:OH	2.17	0.42
1:H:626:VAL:CG1	1:H:878:MET:HG3	2.50	0.42
1:H:841:ASN:OD1	4:m:26:VAL:CG2	2.63	0.42
1:H:895:GLN:HB2	4:m:62:THR:HG22	2.00	0.42
1:I:11:TYR:HB2	1:I:38:PHE:CD2	2.55	0.42
1:I:69:ARG:HD2	1:I:69:ARG:HA	1.82	0.42
1:I:419:HIS:NE2	1:J:419:HIS:CE1	2.87	0.42
1:I:465:SER:O	1:I:468:ASN:OD1	2.38	0.42
1:I:1029:PHE:CB	1:I:1039:GLN:HE21	2.32	0.42
1:I:1034:VAL:HG22	1:I:1147:LEU:HD22	2.02	0.42
1:I:1039:GLN:OE1	1:I:1046:PRO:HB3	2.20	0.42
1:I:1221:ASP:OD2	1:J:1175:ALA:O	2.38	0.42
1:J:837:ALA:HA	4:o:54:LEU:HD22	1.87	0.42
1:J:1355:GLU:O	1:J:1362:LEU:HB3	2.20	0.42
1:K:107:ASP:O	1:K:110:HIS:CE1	2.70	0.42
1:K:558:LEU:C	1:K:560:GLY:N	2.76	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:829:GLY:HA3	1:K:956:TYR:CE2	2.55	0.42
1:K:1138:LEU:HG	1:K:1147:LEU:HD23	2.00	0.42
1:L:500:ASP:OD2	1:L:504:ARG:NH2	2.32	0.42
1:L:662:ALA:HB2	1:L:689:VAL:HG11	2.02	0.42
1:L:996:ALA:O	1:L:1000:SER:OG	2.33	0.42
1:L:1008:GLN:HE22	1:L:1011:ARG:NH1	2.17	0.42
1:L:1084:GLU:OE1	2:W:97:THR:HB	2.19	0.42
1:M:175:ALA:O	1:M:179:GLY:N	2.52	0.42
1:M:839:LEU:HD13	1:M:897:LEU:HD11	2.01	0.42
1:M:918:ALA:CB	1:M:1032:SER:HB3	2.45	0.42
1:N:838:THR:O	1:N:875:VAL:HB	2.20	0.42
1:N:961:HIS:NE2	1:N:1002:ILE:O	2.49	0.42
1:O:778:ARG:O	1:O:904:ARG:NE	2.52	0.42
1:O:841:ASN:O	1:O:874:THR:OG1	2.32	0.42
1:P:293:LEU:HD22	1:P:370:ILE:HG12	2.01	0.42
1:P:372:ASP:O	1:P:373:ARG:HB2	2.19	0.42
1:P:638:GLU:CD	1:P:789:ALA:HB2	2.44	0.42
1:P:860:ASP:OD1	1:P:861:PRO:CD	2.61	0.42
1:P:1125:LEU:HD23	1:P:1184:VAL:HG22	2.01	0.42
2:Q:116:LEU:CD1	2:Q:141:VAL:HB	2.48	0.42
2:T:6:PHE:O	2:T:6:PHE:CD2	2.72	0.42
2:T:182:ASN:ND2	3:V:136:HIS:CE1	2.82	0.42
3:V:130:LEU:HD21	3:V:425:LEU:HD11	2.01	0.42
2:a:74:VAL:CG1	2:a:75:ILE:N	2.83	0.42
2:a:315:ILE:O	2:a:316:ARG:O	2.37	0.42
2:d:129:ARG:CD	2:d:136:THR:HG22	2.49	0.42
4:f:44:HIS:CD2	4:f:50:VAL:CG1	2.95	0.42
4:h:67:THR:OG1	4:h:67:THR:O	2.37	0.42
4:i:66:VAL:HG12	4:i:67:THR:HG22	2.02	0.42
4:j:67:THR:O	4:j:67:THR:OG1	2.37	0.42
4:l:41:PRO:HD2	4:l:42:HIS:H	1.84	0.42
4:o:41:PRO:HD2	4:o:42:HIS:H	1.84	0.42
4:p:66:VAL:HG12	4:p:67:THR:HG22	2.02	0.42
1:G:574:THR:HG21	1:G:998:TYR:O	2.20	0.42
1:G:641:PHE:CE2	1:G:673:TYR:HB3	2.55	0.42
1:G:1073:TYR:CE2	1:G:1097:ARG:HD3	2.55	0.42
1:G:1276:PHE:O	1:G:1277:PHE:HB2	2.19	0.42
1:G:1321:VAL:HG12	1:G:1322:GLU:H	1.85	0.42
1:A:109:PRO:HG3	3:S:255:VAL:CG1	2.48	0.42
1:A:822:ARG:HD3	1:A:822:ARG:HA	1.49	0.42
1:B:169:VAL:O	1:B:172:VAL:HG22	2.19	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:544:HIS:CE1	1:B:1252:TYR:CD1	3.08	0.42
1:B:751:HIS:O	1:B:752:ARG:HG2	2.19	0.42
1:B:1042:THR:HG22	1:B:1042:THR:O	2.20	0.42
1:C:280:THR:O	1:C:392:TYR:OH	2.29	0.42
1:C:520:TRP:CD1	1:C:520:TRP:H	2.37	0.42
1:C:531:PHE:O	1:C:1240:ALA:N	2.48	0.42
1:C:739:CYS:HB2	1:C:785:HIS:ND1	2.35	0.42
1:C:805:TRP:O	1:C:809:HIS:ND1	2.46	0.42
1:C:985:ARG:HD2	1:D:705:ASP:OD2	2.20	0.42
1:D:12:ARG:N	1:L:96:GLN:HE22	2.05	0.42
1:D:14:ALA:HB2	1:M:160:ARG:HH11	1.85	0.42
1:D:883:ARG:HG3	1:E:680:GLY:HA3	2.00	0.42
1:E:205:LEU:HD13	1:E:205:LEU:HA	1.86	0.42
1:E:903:GLU:HG2	1:E:904:ARG:H	1.85	0.42
1:E:1066:SER:HA	1:E:1108:ALA:HA	2.02	0.42
1:E:1323:ASP:OD1	1:E:1323:ASP:N	2.53	0.42
1:H:70:PHE:CZ	1:H:184:MET:HG3	2.55	0.42
1:H:106:ARG:HH21	1:I:390:VAL:HG13	1.85	0.42
1:H:163:GLN:O	1:H:167:ARG:HG2	2.20	0.42
1:H:233:PHE:HZ	1:H:243:ALA:HB1	1.84	0.42
1:H:506:LEU:HD23	1:H:506:LEU:HA	1.81	0.42
1:H:728:ASP:OD1	1:H:729:PRO:HD2	2.20	0.42
1:H:961:HIS:NE2	1:H:1002:ILE:HB	2.34	0.42
1:I:106:ARG:HH12	1:I:110:HIS:CD2	2.38	0.42
1:I:436:PRO:HG2	1:I:595:ARG:HB3	2.02	0.42
1:J:251:LEU:HD22	1:J:278:LEU:HD11	2.00	0.42
1:J:487:TYR:CD1	1:J:513:LEU:HD12	2.55	0.42
1:J:532:MET:HE3	1:J:532:MET:HB2	1.82	0.42
1:J:651:CYS:HA	1:J:884:VAL:HG13	2.02	0.42
1:J:809:HIS:HA	1:J:812:TYR:CB	2.41	0.42
1:J:819:ALA:O	1:J:820:PHE:CD2	2.73	0.42
1:K:77:VAL:CG1	1:K:277:VAL:HG23	2.50	0.42
1:K:790:ARG:HH22	4:p:101:PHE:CB	2.33	0.42
1:K:1057:ARG:O	1:K:1119:VAL:HB	2.19	0.42
1:K:1067:GLU:HB3	1:K:1107:THR:HG23	2.01	0.42
1:K:1074:PHE:CE1	1:L:58:LEU:HD23	2.54	0.42
1:K:1208:ARG:CZ	1:K:1228:ASP:O	2.68	0.42
1:K:1270:LEU:HA	1:K:1312:LYS:HG3	2.02	0.42
1:L:444:GLY:C	1:L:445:LYS:O	2.56	0.42
1:L:521:VAL:C	1:L:523:GLU:N	2.72	0.42
1:L:543:LEU:HB3	1:L:1251:SER:HA	2.02	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:1225:LEU:CD2	1:M:1176:GLY:HA3	2.49	0.42
1:M:193:PRO:HD3	1:M:1294:VAL:HG12	2.01	0.42
1:M:364:ARG:NH1	1:M:365:ALA:O	2.53	0.42
1:M:656:TRP:O	1:M:660:ARG:NH1	2.53	0.42
1:M:1279:ALA:H	1:M:1282:ILE:HD12	1.84	0.42
1:N:297:ASP:O	1:N:298:THR:HG23	2.20	0.42
1:N:378:GLU:HG2	1:N:379:ALA:N	2.34	0.42
1:O:532:MET:HB3	1:O:532:MET:HE2	1.77	0.42
1:O:1120:THR:C	1:O:1122:MET:N	2.74	0.42
1:P:81:CYS:HB3	1:P:306:TYR:CE1	2.55	0.42
1:P:193:PRO:HG2	1:P:198:LEU:CD1	2.46	0.42
1:P:199:LEU:HB2	1:P:200:PRO:HD3	2.02	0.42
1:P:550:PHE:O	1:P:571:ILE:HG13	2.19	0.42
1:P:606:MET:H	1:P:1018:ASN:HD21	1.67	0.42
2:Q:121:PHE:CE2	2:Q:143:LEU:HD11	2.55	0.42
3:V:39:PRO:C	3:V:41:ILE:O	2.63	0.42
2:W:207:LEU:HD13	2:X:237:VAL:HG22	2.01	0.42
2:W:272:TYR:HD2	2:X:161:ARG:HD3	1.85	0.42
2:X:17:SER:O	2:X:19:PRO:N	2.52	0.42
3:Y:437:HIS:CB	3:Y:449:VAL:CG1	2.95	0.42
2:Z:121:PHE:CE2	2:Z:143:LEU:HD11	2.55	0.42
2:Z:180:TYR:HA	2:Z:185:ARG:HA	2.02	0.42
2:Z:223:LEU:HA	2:Z:271:LEU:CD1	2.37	0.42
2:Z:314:VAL:HG12	2:Z:315:ILE:N	2.35	0.42
2:a:132:SER:C	2:a:133:LEU:HD13	2.44	0.42
3:b:112:ARG:CG	3:b:264:THR:CG2	2.80	0.42
3:e:39:PRO:HA	3:e:40:PRO:O	2.20	0.42
4:j:66:VAL:HG12	4:j:67:THR:HG22	2.02	0.42
4:j:95:LYS:O	4:j:96:ARG:CB	2.67	0.42
4:k:106:PRO:HG2	4:k:107:LYS:H	1.85	0.42
4:o:66:VAL:HG12	4:o:67:THR:HG22	2.02	0.42
4:s:22:MET:O	4:s:25:LEU:CB	2.57	0.42
4:t:107:LYS:HG2	4:t:108:THR:H	1.84	0.42
1:G:739:CYS:O	1:G:743:MET:HG2	2.20	0.42
1:G:811:ILE:O	1:G:815:VAL:HB	2.20	0.42
1:G:1059:VAL:O	1:G:1116:ARG:N	2.47	0.42
1:G:1120:THR:HG22	1:G:1121:ASP:N	2.34	0.42
1:G:1209:ALA:HB1	1:G:1214:TYR:CE2	2.54	0.42
1:A:90:MET:CE	1:B:31:SER:HA	2.49	0.42
1:A:960:VAL:HG23	1:A:961:HIS:H	1.85	0.42
1:A:1227:TYR:O	1:A:1229:HIS:ND1	2.42	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1229:HIS:NE2	1:A:1241:THR:HG22	2.32	0.42
1:B:756:ILE:HG23	1:B:756:ILE:O	2.20	0.42
1:B:905:THR:HG21	1:B:956:TYR:OH	2.20	0.42
1:C:180:THR:O	1:C:184:MET:HG2	2.19	0.42
1:C:192:ALA:HA	1:C:1108:ALA:O	2.19	0.42
1:C:1041:LYS:HD2	1:C:1041:LYS:HA	1.87	0.42
1:D:50:TYR:HE2	1:M:139:ALA:HB2	1.85	0.42
1:D:751:HIS:CE1	1:D:753:ASP:O	2.73	0.42
1:E:163:GLN:O	1:E:167:ARG:HG2	2.20	0.42
1:E:840:GLN:HB2	4:k:61:LEU:CD1	2.50	0.42
1:F:1033:PRO:O	1:F:1037:TYR:CD1	2.73	0.42
1:H:73:LEU:C	1:H:75:LEU:N	2.76	0.42
1:H:410:ASN:HB2	1:H:415:ARG:HG2	2.02	0.42
1:H:410:ASN:ND2	1:H:1358:PHE:O	2.47	0.42
1:I:509:TRP:CH2	1:I:564:PRO:CG	3.01	0.42
1:I:949:ILE:HG23	1:I:953:GLU:OE1	2.20	0.42
1:I:961:HIS:NE2	1:I:1002:ILE:HB	2.34	0.42
1:J:35:LEU:HD11	1:K:1291:ARG:HH22	1.84	0.42
1:J:185:LEU:HA	1:J:188:LEU:CB	2.40	0.42
1:J:227:PHE:CZ	1:J:1324:PRO:HG3	2.54	0.42
1:J:338:ASP:HA	1:J:341:GLU:CD	2.45	0.42
1:J:429:HIS:CD2	1:J:430:PRO:HD2	2.54	0.42
1:J:518:VAL:O	1:J:518:VAL:HG23	2.19	0.42
1:J:1206:ARG:HG2	1:J:1247:SER:CA	2.50	0.42
1:J:1229:HIS:H	1:J:1229:HIS:HD1	1.68	0.42
1:K:629:LEU:HB3	1:K:839:LEU:HD21	2.01	0.42
1:K:778:ARG:NH1	1:K:782:ARG:NH2	2.61	0.42
1:K:1077:GLN:O	1:K:1096:PRO:HD2	2.19	0.42
1:L:197:LEU:O	1:L:223:LEU:HD11	2.19	0.42
1:L:200:PRO:HB3	1:L:222:GLU:HG2	2.01	0.42
1:L:256:GLN:O	1:L:1107:THR:HG22	2.20	0.42
1:L:278:LEU:HB2	1:L:376:PHE:O	2.19	0.42
1:L:532:MET:C	1:L:534:PRO:CD	2.87	0.42
1:M:366:ASP:OD2	1:M:377:LEU:HB3	2.20	0.42
1:M:591:PHE:CZ	1:M:1045:HIS:CD2	3.06	0.42
1:M:1071:GLU:OE2	1:M:1099:ASN:ND2	2.52	0.42
1:N:397:ALA:HA	1:N:1058:PHE:O	2.20	0.42
1:N:1168:CYS:C	1:N:1170:GLN:N	2.78	0.42
1:N:1222:VAL:O	1:N:1223:ILE:CG1	2.68	0.42
1:N:1286:HIS:NE2	1:N:1291:ARG:HB2	2.35	0.42
1:O:13:TYR:O	1:O:14:ALA:CB	2.68	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:230:THR:O	1:O:233:PHE:HB2	2.20	0.42
1:O:321:VAL:HG23	1:O:322:MET:N	2.35	0.42
1:O:487:TYR:HH	1:O:990:VAL:H	1.64	0.42
1:O:866:HIS:HD2	1:O:868:ALA:CB	2.33	0.42
1:O:976:PHE:HE2	1:O:981:ARG:HD2	1.84	0.42
1:O:1112:THR:O	1:O:1112:THR:OG1	2.33	0.42
1:O:1181:GLN:HE21	1:O:1310:GLN:HA	1.84	0.42
1:O:1214:TYR:HB2	1:O:1225:LEU:HD21	2.01	0.42
1:P:871:VAL:HG12	1:P:872:ALA:N	2.34	0.42
3:S:433:PRO:CB	3:S:453:GLU:N	2.83	0.42
2:T:16:ILE:HG21	2:T:133:LEU:HD23	2.02	0.42
2:U:44:ALA:HB2	2:U:135:LEU:HD11	2.01	0.42
2:U:173:LEU:HB3	2:U:174:PRO:HD2	2.01	0.42
2:U:295:VAL:HG22	2:U:314:VAL:CG1	2.50	0.42
2:W:147:LEU:HD12	2:W:181:TYR:CD1	2.55	0.42
3:Y:159:GLU:O	3:Y:163:GLN:CB	2.66	0.42
3:Y:296:LEU:HD21	3:Y:434:ARG:NH1	2.29	0.42
2:Z:16:ILE:HG21	2:Z:133:LEU:HD23	2.02	0.42
2:a:37:ILE:N	2:a:71:PHE:CD1	2.88	0.42
2:c:80:PRO:C	2:c:81:THR:HG1	2.15	0.42
2:d:154:ARG:NH1	2:d:178:VAL:O	2.36	0.42
3:e:200:ALA:HB1	3:e:294:VAL:HG13	2.00	0.42
4:f:3:ALA:HB2	4:f:38:ASN:CG	2.44	0.42
4:i:94:LEU:C	4:i:95:LYS:O	2.58	0.42
4:k:67:THR:O	4:k:67:THR:OG1	2.37	0.42
4:m:44:HIS:HD2	4:m:47:GLN:O	1.98	0.42
4:m:67:THR:O	4:m:67:THR:OG1	2.37	0.42
4:p:86:GLU:H	4:p:105:ASP:CB	2.31	0.42
1:G:631:GLN:HE21	1:G:667:ASP:HB2	1.81	0.42
1:G:831:ARG:O	1:G:835:VAL:HG23	2.19	0.42
1:G:891:MET:O	1:G:894:LEU:HB3	2.20	0.42
1:G:1205:PRO:HD2	1:G:1276:PHE:HD2	1.85	0.42
1:G:1285:LYS:HE2	1:G:1300:VAL:HG21	2.02	0.42
1:A:101:GLN:OE1	1:A:101:GLN:N	2.52	0.42
1:A:145:GLY:O	1:A:146:GLU:C	2.63	0.42
1:A:564:PRO:O	1:A:566:ALA:N	2.53	0.42
1:A:826:CYS:SG	1:A:959:PRO:HG3	2.60	0.42
1:A:1051:THR:CG2	1:A:1188:ILE:HB	2.50	0.42
1:A:1085:THR:C	1:A:1086:GLY:O	2.49	0.42
1:A:1104:VAL:HG13	1:A:1105:GLY:N	2.35	0.42
1:A:1233:ASP:O	1:A:1237:PRO:HA	2.20	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:367:LEU:HB3	1:B:374:LEU:HD11	2.01	0.42
1:B:514:ALA:HA	1:B:983:LEU:HD13	2.02	0.42
1:B:1026:ALA:HA	1:B:1029:PHE:CE2	2.55	0.42
1:B:1091:PHE:CZ	3:S:90:ILE:CG2	3.02	0.42
1:C:263:ARG:O	1:C:358:PRO:HG2	2.20	0.42
1:C:776:PHE:HD1	1:C:903:GLU:HA	1.85	0.42
1:C:834:ARG:HD3	1:C:953:GLU:HB2	2.00	0.42
1:C:847:ILE:CG2	4:i:70:ASN:O	2.67	0.42
1:D:200:PRO:HG2	1:D:223:LEU:HD13	2.01	0.42
1:D:1057:ARG:NH2	1:D:1319:GLU:HG2	2.35	0.42
1:D:1201:ARG:NH2	1:E:1179:HIS:HE1	2.16	0.42
1:E:828:ALA:HA	1:E:957:VAL:O	2.19	0.42
1:F:79:CYS:O	1:F:79:CYS:SG	2.78	0.42
1:F:574:THR:HG21	1:F:998:TYR:O	2.20	0.42
1:F:1128:ASN:ND2	1:F:1158:GLY:HA2	2.35	0.42
1:F:1218:LYS:O	1:F:1219:GLU:CB	2.68	0.42
1:H:194:PRO:HA	1:H:1110:ALA:O	2.20	0.42
1:I:120:MET:HB2	1:L:39:PHE:HD2	1.84	0.42
1:I:267:ALA:O	1:I:268:ASP:CB	2.67	0.42
1:I:468:ASN:HD22	1:I:1136:PRO:HD2	1.84	0.42
1:I:554:ALA:HA	1:I:570:ALA:HB2	2.02	0.42
1:I:837:ALA:CB	4:o:94:LEU:O	2.48	0.42
1:I:1008:GLN:HE22	1:I:1011:ARG:NH1	2.17	0.42
1:J:732:LEU:HD13	1:J:736:VAL:HG21	2.02	0.42
1:J:816:LEU:HD12	1:J:816:LEU:HA	1.89	0.42
1:J:1135:ALA:HB1	1:J:1136:PRO:HD2	2.02	0.42
1:J:1338:SER:HG	1:J:1361:TYR:N	2.14	0.42
1:K:155:LEU:HD22	1:K:155:LEU:HA	1.86	0.42
1:K:633:ALA:HB1	1:K:897:LEU:HD21	2.01	0.42
1:K:998:TYR:O	1:K:1003:ARG:NH2	2.45	0.42
1:L:56:ALA:CB	1:L:58:LEU:HD11	2.50	0.42
1:L:819:ALA:O	1:L:820:PHE:CB	2.67	0.42
1:L:829:GLY:CA	1:L:905:THR:HG21	2.50	0.42
1:L:892:LEU:CD2	4:q:65:GLY:HA2	2.48	0.42
1:L:960:VAL:HA	1:L:994:LEU:HD13	2.02	0.42
1:M:16:ALA:O	1:M:17:MET:CB	2.68	0.42
1:M:892:LEU:HG	4:f:65:GLY:HA2	2.02	0.42
1:N:224:LYS:HB3	1:N:1328:PHE:CD1	2.55	0.42
1:N:454:MET:HE1	1:N:1049:GLY:HA2	2.02	0.42
1:N:797:ASP:OD1	1:N:798:ARG:N	2.51	0.42
1:N:933:LEU:HG	1:N:960:VAL:CG1	2.49	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:836:TYR:CZ	1:O:901:MET:HB2	2.55	0.42
1:O:961:HIS:NE2	1:O:1002:ILE:HB	2.35	0.42
1:O:1113:ALA:O	1:O:1114:THR:CB	2.67	0.42
1:P:369:ALA:HA	1:P:373:ARG:O	2.20	0.42
1:P:574:THR:HG21	1:P:998:TYR:O	2.20	0.42
1:P:578:VAL:CG1	1:P:725:LEU:HD22	2.50	0.42
1:P:598:GLU:O	1:P:601:VAL:HG22	2.19	0.42
1:P:1119:VAL:O	1:P:1119:VAL:CG1	2.66	0.42
1:P:1155:ASN:HB2	1:P:1158:GLY:N	2.35	0.42
2:Q:24:LEU:HD21	2:Q:130:LEU:HD11	2.01	0.42
3:S:130:LEU:HD21	3:S:425:LEU:HD11	2.01	0.42
3:S:275:HIS:O	3:S:275:HIS:CG	2.70	0.42
2:T:117:VAL:O	2:T:120:VAL:HG12	2.20	0.42
2:T:206:VAL:O	2:T:210:VAL:HG23	2.19	0.42
2:U:17:SER:C	2:U:19:PRO:N	2.77	0.42
3:V:89:LYS:HA	3:V:92:ARG:HE	1.85	0.42
2:W:121:PHE:CE2	2:W:143:LEU:HD11	2.55	0.42
2:X:71:PHE:HA	2:X:72:PRO:HD3	1.95	0.42
3:Y:292:ALA:C	3:Y:294:VAL:N	2.65	0.42
2:Z:6:PHE:O	2:Z:6:PHE:CD2	2.72	0.42
2:Z:220:ILE:HD12	2:a:209:MET:CE	2.49	0.42
2:a:52:VAL:HG12	2:a:53:SER:O	2.20	0.42
3:b:41:ILE:O	3:b:41:ILE:HG13	2.19	0.42
3:b:132:LEU:HD12	3:b:187:PHE:HA	1.88	0.42
2:d:92:LEU:C	2:d:94:HIS:CD2	2.98	0.42
2:d:98:VAL:O	2:d:98:VAL:HG13	2.19	0.42
2:d:315:ILE:O	2:d:316:ARG:O	2.37	0.42
2:d:316:ARG:CG	2:d:317:TYR:H	2.32	0.42
4:g:3:ALA:HB2	4:g:38:ASN:CG	2.44	0.42
4:h:106:PRO:CG	4:h:107:LYS:H	2.33	0.42
4:k:27:LEU:HD12	4:k:27:LEU:HA	1.92	0.42
4:l:67:THR:OG1	4:l:67:THR:O	2.37	0.42
4:q:67:THR:OG1	4:q:67:THR:O	2.37	0.42
1:G:84:PHE:C	1:G:86:GLU:N	2.78	0.41
1:G:185:LEU:CD2	1:G:393:PRO:HD2	2.50	0.41
1:G:409:PHE:HD2	1:G:591:PHE:HB2	1.78	0.41
1:G:506:LEU:O	1:G:510:ARG:CD	2.68	0.41
1:G:832:PHE:CA	1:G:836:TYR:CE2	3.01	0.41
1:G:1104:VAL:HG23	1:G:1105:GLY:N	2.35	0.41
1:G:1200:ARG:NH1	1:G:1362:LEU:O	2.53	0.41
1:G:1321:VAL:CG1	1:G:1322:GLU:N	2.82	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:261:VAL:HG21	1:B:24:LEU:HD11	2.02	0.41
1:A:435:PHE:HB2	1:A:436:PRO:CD	2.50	0.41
1:A:756:ILE:HD12	1:A:757:ASP:H	1.85	0.41
1:A:1057:ARG:NH1	1:A:1321:VAL:CG2	2.81	0.41
1:B:25:SER:O	1:B:61:TYR:HB3	2.19	0.41
1:B:127:ARG:HD3	1:B:183:GLN:HE22	1.84	0.41
1:B:239:HIS:CD2	1:B:240:ARG:HG3	2.55	0.41
1:B:296:GLU:O	1:B:367:LEU:HB2	2.20	0.41
1:B:340:GLN:HE21	1:C:155:LEU:HB2	1.84	0.41
1:B:1082:ARG:C	1:B:1083:HIS:O	2.53	0.41
1:C:44:SER:O	1:C:44:SER:OG	2.33	0.41
1:C:260:ALA:HB2	1:M:24:LEU:HD21	2.02	0.41
1:C:269:THR:HG21	1:C:300:ALA:O	2.20	0.41
1:C:933:LEU:HG	1:C:960:VAL:CG1	2.50	0.41
1:C:1202:PRO:O	1:C:1330:GLU:HB3	2.20	0.41
1:D:274:VAL:HG22	1:D:374:LEU:CD2	2.49	0.41
1:E:27:ILE:CD1	1:H:1104:VAL:HG13	2.44	0.41
1:E:70:PHE:CZ	1:E:184:MET:HG3	2.55	0.41
1:E:276:GLY:HA2	1:E:1066:SER:O	2.20	0.41
1:E:276:GLY:C	1:E:375:VAL:HG13	2.45	0.41
1:E:301:ASP:O	1:E:362:ARG:HA	2.19	0.41
1:E:756:ILE:O	1:E:756:ILE:HG23	2.20	0.41
1:E:889:PRO:HD3	4:k:69:ALA:HB2	1.89	0.41
1:E:1198:TYR:O	1:E:1199:PHE:CB	2.68	0.41
1:F:638:GLU:CD	1:F:801:ARG:HH22	2.22	0.41
1:F:842:MET:HB3	1:F:875:VAL:HG12	2.02	0.41
1:F:871:VAL:HG12	1:F:872:ALA:H	1.85	0.41
1:F:1190:THR:HA	1:F:1243:ASN:ND2	2.35	0.41
1:H:155:LEU:O	1:H:158:GLN:HB3	2.20	0.41
1:H:198:LEU:HD11	1:H:202:GLN:HE21	1.85	0.41
1:H:1073:TYR:OH	1:H:1097:ARG:HD3	2.20	0.41
1:H:1317:CYS:HB3	1:H:1318:ARG:H	1.68	0.41
1:I:409:PHE:CD2	1:I:591:PHE:HB2	2.54	0.41
1:I:620:ASP:CG	1:J:691:ARG:HH12	2.28	0.41
1:I:1118:PRO:O	1:I:1119:VAL:HB	2.20	0.41
1:J:233:PHE:C	1:J:1113:ALA:O	2.58	0.41
1:J:272:ARG:HE	1:J:374:LEU:HB2	1.84	0.41
1:J:729:PRO:C	1:J:731:LEU:N	2.77	0.41
1:J:742:LEU:HD11	1:J:754:CYS:SG	2.60	0.41
1:J:815:VAL:HG22	1:J:1028:TYR:HE2	1.85	0.41
1:K:124:ILE:HD12	1:L:58:LEU:HD21	1.85	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:642:CYS:HA	1:K:645:ALA:HB2	2.02	0.41
1:K:785:HIS:O	1:K:800:HIS:HE1	2.03	0.41
1:K:1246:ALA:HB1	1:K:1277:PHE:HE2	1.84	0.41
1:L:151:THR:HG23	1:L:154:SER:H	1.85	0.41
1:L:304:VAL:HG23	1:L:359:GLN:O	2.19	0.41
1:L:347:ASN:OD1	1:M:167:ARG:NE	2.53	0.41
1:L:397:ALA:HB1	1:L:1321:VAL:HG23	2.01	0.41
1:L:1057:ARG:HG2	1:L:1058:PHE:N	2.35	0.41
1:L:1198:TYR:O	1:L:1199:PHE:HB2	2.20	0.41
1:L:1364:TYR:CG	1:L:1365:ASP:N	2.88	0.41
1:M:431:GLU:O	1:M:431:GLU:HG3	2.19	0.41
1:M:937:VAL:HG12	1:M:939:LEU:HD13	2.02	0.41
1:N:696:HIS:HE1	1:N:1021:THR:HG21	1.85	0.41
1:O:96:GLN:HA	1:O:121:THR:HA	2.01	0.41
1:O:470:ASP:HA	1:O:473:VAL:HG12	2.01	0.41
1:O:756:ILE:HG13	1:O:757:ASP:N	2.35	0.41
1:P:191:LYS:O	1:P:192:ALA:CB	2.68	0.41
1:P:293:LEU:CD1	1:P:368:VAL:CG1	2.98	0.41
1:P:454:MET:HB3	1:P:1040:LEU:HD22	2.01	0.41
1:P:469:ILE:O	1:P:472:ALA:N	2.45	0.41
1:P:887:ASP:CG	1:P:889:PRO:HD2	2.44	0.41
1:P:1054:ARG:HD3	1:P:1185:CYS:SG	2.59	0.41
1:P:1265:GLY:HA2	1:P:1312:LYS:HZ2	1.82	0.41
2:T:121:PHE:CE2	2:T:143:LEU:HD11	2.55	0.41
2:U:315:ILE:O	2:U:316:ARG:O	2.37	0.41
2:W:117:VAL:O	2:W:120:VAL:HG12	2.20	0.41
2:W:161:ARG:NH1	2:W:176:LEU:HG	2.35	0.41
2:X:5:CYS:O	2:X:5:CYS:SG	2.78	0.41
2:X:60:THR:O	2:X:60:THR:OG1	2.29	0.41
2:X:92:LEU:C	2:X:94:HIS:CD2	2.98	0.41
2:a:291:LEU:CB	3:b:337:ARG:CD	2.97	0.41
2:a:295:VAL:HG22	2:a:314:VAL:CG1	2.50	0.41
2:c:6:PHE:O	2:c:6:PHE:CD2	2.72	0.41
3:e:447:VAL:HG12	3:e:448:PRO:CD	2.44	0.41
4:l:22:MET:HE1	4:l:57:GLN:C	2.45	0.41
4:l:86:GLU:H	4:l:105:ASP:CB	2.33	0.41
4:m:41:PRO:HD2	4:m:42:HIS:H	1.84	0.41
4:n:77:PRO:HD3	4:n:110:SER:HA	2.02	0.41
4:o:21:GLY:C	4:o:23:ARG:H	2.26	0.41
4:s:22:MET:HE1	4:s:57:GLN:C	2.45	0.41
1:G:402:PHE:HA	1:G:1332:TYR:O	2.20	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:813:TYR:O	1:G:818:PRO:HD3	2.20	0.41
1:G:1218:LYS:HG3	1:G:1221:ASP:H	1.85	0.41
1:G:1258:ASN:CG	1:G:1278:THR:HA	2.46	0.41
1:G:1303:ALA:O	1:G:1319:GLU:OE1	2.37	0.41
1:A:326:VAL:O	1:A:327:ARG:CB	2.68	0.41
1:A:633:ALA:HB2	1:A:839:LEU:HD11	2.03	0.41
1:B:827:THR:O	1:B:957:VAL:O	2.38	0.41
1:B:1270:LEU:HD12	1:B:1271:SER:H	1.85	0.41
1:C:44:SER:O	1:C:45:ASP:CB	2.68	0.41
1:C:93:GLY:C	1:C:124:ILE:HD12	2.45	0.41
1:C:114:GLN:HE21	1:M:43:ARG:HG3	1.70	0.41
1:C:284:ILE:HD13	1:C:1113:ALA:HB3	2.02	0.41
1:C:611:ILE:HG22	1:C:615:ARG:NH1	2.35	0.41
1:C:734:PRO:HB3	1:C:960:VAL:CG2	2.45	0.41
1:C:1114:THR:HB	1:C:1115:VAL:H	1.70	0.41
1:D:89:TYR:HE1	1:I:157:ARG:HH11	1.67	0.41
1:D:684:GLU:HA	1:D:684:GLU:OE1	2.20	0.41
1:D:861:PRO:HA	1:D:866:HIS:CG	2.55	0.41
1:E:99:VAL:HG13	1:E:118:ASN:HB2	2.02	0.41
1:E:160:ARG:HG2	1:I:50:TYR:HE1	1.84	0.41
1:E:382:LYS:HA	1:E:386:ALA:HB2	2.02	0.41
1:F:532:MET:HG3	1:F:534:PRO:CD	2.41	0.41
1:H:224:LYS:HA	1:H:1328:PHE:CZ	2.55	0.41
1:H:233:PHE:CE2	1:H:244:ILE:HD13	2.54	0.41
1:H:366:ASP:HB3	1:H:377:LEU:O	2.20	0.41
1:H:406:LEU:HD11	1:H:1187:PHE:HE2	1.84	0.41
1:H:579:ASN:HA	1:H:1031:MET:SD	2.60	0.41
1:H:836:TYR:HD1	1:H:839:LEU:HD12	1.84	0.41
1:H:905:THR:HG21	1:H:956:TYR:OH	2.20	0.41
1:H:1106:TYR:HE1	1:H:1294:VAL:CG1	2.32	0.41
1:I:301:ASP:O	1:I:362:ARG:HA	2.21	0.41
1:I:502:GLN:HE22	1:I:970:VAL:HG13	1.85	0.41
1:I:668:TYR:HB2	1:I:812:TYR:CD2	2.55	0.41
1:I:750:ARG:NE	1:I:915:ASP:HA	2.35	0.41
1:I:840:GLN:O	1:I:842:MET:CB	2.68	0.41
1:I:1127:GLN:HB2	1:I:1186:GLU:HG2	2.02	0.41
1:J:431:GLU:HA	1:J:431:GLU:OE1	2.19	0.41
1:J:433:ARG:O	1:J:1358:PHE:CD2	2.73	0.41
1:J:466:LEU:CD2	1:J:1252:TYR:CZ	3.03	0.41
1:K:135:LEU:CD1	1:K:1091:PHE:CE2	2.96	0.41
1:K:152:GLY:HA2	1:P:340:GLN:NE2	2.35	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:372:ASP:O	1:K:372:ASP:CG	2.62	0.41
1:K:496:GLY:O	1:K:758:ALA:CB	2.65	0.41
1:K:1344:ARG:HE	1:P:1355:GLU:CD	2.27	0.41
1:L:89:TYR:O	1:M:53:GLU:HA	2.20	0.41
1:L:321:VAL:CG1	1:M:14:ALA:CB	2.89	0.41
1:L:466:LEU:O	1:L:467:MET:HB2	2.21	0.41
1:L:1218:LYS:HE3	2:d:184:ALA:HB1	2.00	0.41
1:M:531:PHE:O	1:M:1240:ALA:N	2.53	0.41
1:M:544:HIS:HA	1:M:1252:TYR:HB2	2.02	0.41
1:N:1291:ARG:O	1:N:1294:VAL:N	2.49	0.41
1:O:274:VAL:HA	1:O:374:LEU:HB2	2.02	0.41
1:O:756:ILE:HG13	1:O:757:ASP:H	1.84	0.41
1:O:841:ASN:OD1	4:s:26:VAL:HG22	2.20	0.41
1:O:1048:PHE:HA	1:O:1192:VAL:HG13	2.02	0.41
1:O:1354:ARG:NH2	1:O:1357:HIS:HD2	2.16	0.41
1:P:13:TYR:O	1:P:14:ALA:CB	2.68	0.41
1:P:444:GLY:CA	1:P:450:LEU:CD1	2.97	0.41
1:P:785:HIS:ND1	1:P:785:HIS:O	2.53	0.41
1:P:1299:ALA:O	1:P:1320:LEU:HA	2.20	0.41
2:Q:182:ASN:HA	3:S:139:ASP:CB	2.48	0.41
2:R:52:VAL:HG12	2:R:53:SER:O	2.20	0.41
2:R:246:VAL:CG1	2:R:247:THR:N	2.82	0.41
2:U:285:LEU:HD23	2:U:288:ILE:CD1	2.50	0.41
2:W:80:PRO:C	2:W:81:THR:HG1	2.16	0.41
3:Y:139:ASP:C	3:Y:141:PRO:N	2.75	0.41
2:Z:215:GLU:O	2:Z:219:LEU:HB3	2.20	0.41
2:Z:268:ARG:CA	2:Z:271:LEU:HD12	2.45	0.41
3:b:37:LEU:O	3:b:39:PRO:N	2.53	0.41
3:b:89:LYS:HA	3:b:92:ARG:HE	1.85	0.41
3:b:188:ASN:HD21	3:b:207:VAL:CG1	2.05	0.41
2:c:117:VAL:O	2:c:120:VAL:HG12	2.20	0.41
2:c:121:PHE:CE2	2:c:143:LEU:HD11	2.55	0.41
2:d:52:VAL:HG12	2:d:53:SER:O	2.20	0.41
2:d:173:LEU:HB3	2:d:174:PRO:HD2	2.01	0.41
3:e:198:TYR:CZ	3:e:294:VAL:HG11	2.56	0.41
3:e:202:ASP:HA	3:e:205:GLU:CB	2.50	0.41
3:e:220:ALA:N	3:e:223:ARG:HH21	2.16	0.41
4:g:67:THR:OG1	4:g:67:THR:O	2.37	0.41
4:h:3:ALA:HB2	4:h:38:ASN:CG	2.44	0.41
4:i:21:GLY:C	4:i:23:ARG:N	2.77	0.41
4:i:67:THR:OG1	4:i:67:THR:O	2.37	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:j:77:PRO:HD3	4:j:110:SER:HA	2.02	0.41
4:k:66:VAL:HG12	4:k:67:THR:HG22	2.02	0.41
4:m:66:VAL:HG12	4:m:67:THR:HG22	2.02	0.41
4:q:77:PRO:HD3	4:q:110:SER:HA	2.03	0.41
4:s:66:VAL:HG12	4:s:67:THR:HG22	2.02	0.41
1:G:867:PRO:HA	1:G:870:LEU:HG	2.03	0.41
1:G:1205:PRO:C	1:G:1207:GLY:N	2.78	0.41
1:A:112:VAL:HG13	1:B:131:ALA:CA	2.49	0.41
1:A:502:GLN:HE22	1:A:970:VAL:HG13	1.84	0.41
1:A:581:ASN:HD21	1:A:1003:ARG:H	1.67	0.41
1:A:1107:THR:HG22	1:A:1108:ALA:N	2.36	0.41
1:A:1296:THR:O	1:A:1322:GLU:HG2	2.20	0.41
1:A:1329:GLN:O	1:A:1330:GLU:CG	2.69	0.41
1:B:147:ALA:H	1:B:148:LEU:HD12	1.85	0.41
1:B:398:MET:CB	1:B:1322:GLU:HB3	2.50	0.41
1:B:470:ASP:HA	1:B:473:VAL:HG12	2.02	0.41
1:B:633:ALA:HB2	1:B:839:LEU:HD13	2.02	0.41
1:B:765:TYR:HE1	1:B:783:LEU:HB2	1.84	0.41
1:B:1275:LYS:HB2	1:B:1275:LYS:HE3	1.86	0.41
1:C:93:GLY:HA3	1:C:124:ILE:HD12	2.01	0.41
1:C:484:ALA:HB2	1:C:551:ALA:HB3	2.01	0.41
1:C:756:ILE:CD1	1:C:907:ALA:O	2.67	0.41
1:C:769:CYS:N	1:C:786:ASN:ND2	2.68	0.41
1:C:802:PRO:O	1:C:803:ALA:CB	2.68	0.41
1:C:1095:GLN:CG	1:C:1097:ARG:HE	2.31	0.41
1:C:1124:ASN:O	1:C:1156:ARG:NH2	2.48	0.41
1:D:750:ARG:O	1:D:752:ARG:HG2	2.20	0.41
1:D:933:LEU:HD21	1:D:958:LEU:HD13	2.02	0.41
1:E:33:ARG:HD2	1:E:39:PHE:CD2	2.56	0.41
1:E:269:THR:CG2	1:E:298:THR:CB	2.98	0.41
1:E:410:ASN:CB	1:E:415:ARG:HG2	2.47	0.41
1:E:532:MET:HE2	1:E:534:PRO:CG	2.48	0.41
1:E:656:TRP:CD2	1:E:686:CYS:HB3	2.55	0.41
1:E:933:LEU:HG	1:E:960:VAL:HG11	2.01	0.41
1:E:1056:ASP:OD2	1:E:1122:MET:CE	2.68	0.41
1:E:1100:VAL:CG1	1:E:1101:ASP:H	2.33	0.41
1:F:317:VAL:O	1:F:321:VAL:N	2.43	0.41
1:F:405:PRO:O	1:F:440:LEU:HD22	2.20	0.41
1:F:607:ALA:O	1:F:610:THR:HG22	2.21	0.41
1:F:768:ALA:CA	1:F:786:ASN:CG	2.84	0.41
1:H:452:LEU:HD21	1:H:456:ASN:HD21	1.81	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:1354:ARG:NH2	1:H:1357:HIS:HD2	2.16	0.41
1:I:437:PRO:HG3	1:I:1359:THR:O	2.21	0.41
1:J:36:PHE:HZ	1:K:1104:VAL:HG12	1.85	0.41
1:J:295:VAL:C	1:J:297:ASP:N	2.77	0.41
1:J:397:ALA:HB3	1:J:1321:VAL:HG23	2.03	0.41
1:J:422:ASP:O	1:J:423:LEU:C	2.61	0.41
1:J:532:MET:O	1:J:535:ASP:O	2.37	0.41
1:J:689:VAL:O	1:J:693:LEU:N	2.52	0.41
1:J:836:TYR:HA	1:J:839:LEU:HB2	2.02	0.41
1:J:841:ASN:C	1:J:874:THR:HG1	2.20	0.41
1:J:1049:GLY:O	1:J:1190:THR:OG1	2.32	0.41
1:J:1054:ARG:NH2	1:J:1124:ASN:H	1.97	0.41
1:K:1181:GLN:HE21	1:K:1310:GLN:HA	1.85	0.41
1:K:1194:THR:CG2	1:K:1242:ALA:O	2.68	0.41
1:K:1347:ARG:NH1	1:P:1355:GLU:OE1	2.53	0.41
1:L:13:TYR:O	1:L:14:ALA:CB	2.68	0.41
1:L:244:ILE:HG23	1:L:244:ILE:HD12	1.78	0.41
1:L:274:VAL:CG2	1:L:374:LEU:HD21	2.41	0.41
1:L:535:ASP:C	1:L:537:ALA:N	2.77	0.41
1:L:865:LEU:CD1	1:L:891:MET:HE1	2.50	0.41
1:L:947:HIS:HD2	1:M:638:GLU:OE1	2.03	0.41
1:M:264:LEU:HD23	1:M:264:LEU:HA	1.98	0.41
1:M:1160:ALA:O	1:M:1161:GLN:CG	2.68	0.41
1:N:219:LEU:O	1:N:223:LEU:HB2	2.21	0.41
1:N:301:ASP:OD1	1:N:365:ALA:HB3	2.21	0.41
1:N:736:VAL:HG12	1:N:738:ASP:O	2.20	0.41
1:N:754:CYS:CA	1:N:910:CYS:HG	2.32	0.41
1:N:842:MET:SD	4:r:61:LEU:HD22	2.60	0.41
1:N:846:GLU:OE2	4:r:67:THR:CG2	2.68	0.41
1:O:269:THR:C	1:O:271:GLY:N	2.77	0.41
1:O:311:LEU:HD22	1:O:315:ASN:HB3	2.02	0.41
1:O:317:VAL:C	1:O:321:VAL:HG22	2.45	0.41
1:O:1051:THR:HG22	1:O:1188:ILE:HB	2.02	0.41
1:O:1057:ARG:CZ	1:O:1319:GLU:OE1	2.68	0.41
1:P:272:ARG:HG2	1:P:374:LEU:CD1	2.50	0.41
1:P:363:VAL:HG22	1:P:364:ARG:N	2.34	0.41
1:P:467:MET:HE1	1:P:575:TRP:HE1	1.85	0.41
1:P:626:VAL:HG13	1:P:878:MET:HG3	2.03	0.41
2:R:88:VAL:HG13	2:R:92:LEU:HD22	2.02	0.41
3:S:168:SER:O	3:S:223:ARG:CG	2.48	0.41
2:U:5:CYS:O	2:U:5:CYS:SG	2.78	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:V:202:ASP:HA	3:V:205:GLU:CB	2.51	0.41
2:X:315:ILE:O	2:X:316:ARG:O	2.37	0.41
3:Y:140:LEU:HG	3:Y:161:TRP:CD1	2.55	0.41
2:Z:261:LEU:CB	2:a:252:GLN:C	2.93	0.41
2:a:96:GLY:HA3	2:a:300:PHE:HE2	1.85	0.41
3:b:193:ALA:HB3	3:b:231:LEU:HD11	1.88	0.41
3:b:241:PRO:C	3:b:242:HIS:O	2.60	0.41
3:b:279:PRO:CB	3:b:283:CYS:CA	2.93	0.41
2:c:207:LEU:HD13	2:d:237:VAL:HG22	2.01	0.41
4:n:12:ILE:O	4:n:13:THR:CB	2.69	0.41
4:o:94:LEU:C	4:o:95:LYS:O	2.59	0.41
4:r:41:PRO:HD2	4:r:42:HIS:H	1.84	0.41
1:G:302:VAL:HG12	1:G:361:THR:O	2.21	0.41
1:G:460:THR:HA	1:G:1129:PHE:CE2	2.55	0.41
1:A:662:ALA:HB2	1:A:689:VAL:HG11	2.02	0.41
1:A:946:ASP:HB3	1:B:676:THR:HG21	2.02	0.41
1:A:1059:VAL:HG23	1:A:1119:VAL:HG23	2.02	0.41
1:A:1115:VAL:HG21	1:A:1374:LEU:HD21	2.02	0.41
1:B:193:PRO:HB3	1:B:1294:VAL:HG12	2.01	0.41
1:B:604:HIS:HD2	1:B:696:HIS:CD2	2.38	0.41
1:C:123:VAL:CG2	1:M:37:ASP:OD2	2.69	0.41
1:C:520:TRP:CD2	1:C:997:ASN:ND2	2.85	0.41
1:C:728:ASP:HB2	1:C:1030:LYS:CE	2.50	0.41
1:C:815:VAL:HG22	1:C:1028:TYR:CE2	2.55	0.41
1:C:1224:ALA:O	1:C:1228:ASP:HB3	2.20	0.41
1:C:1348:ASP:OD1	1:C:1348:ASP:C	2.62	0.41
1:D:526:MET:O	1:D:529:GLU:HB3	2.20	0.41
1:D:572:GLN:NE2	1:D:999:PHE:HZ	2.19	0.41
1:D:1037:TYR:CE1	1:D:1041:LYS:HG3	2.56	0.41
1:D:1270:LEU:HD12	1:D:1271:SER:H	1.85	0.41
1:E:13:TYR:O	1:E:14:ALA:CB	2.68	0.41
1:E:160:ARG:HH11	1:I:14:ALA:HB2	1.85	0.41
1:E:272:ARG:HD3	1:E:374:LEU:HD13	2.02	0.41
1:E:274:VAL:HG22	1:E:374:LEU:CD2	2.51	0.41
1:E:836:TYR:CD1	1:E:839:LEU:HD12	2.55	0.41
1:E:884:VAL:HG12	1:E:886:VAL:HG23	2.02	0.41
1:E:1113:ALA:O	1:E:1114:THR:OG1	2.34	0.41
1:E:1210:ALA:O	1:E:1282:ILE:HG21	2.20	0.41
1:F:532:MET:CA	1:F:534:PRO:HD2	2.50	0.41
1:F:842:MET:CE	4:l:61:LEU:HD11	2.27	0.41
1:F:871:VAL:O	1:F:877:ALA:HB2	2.21	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:581:ASN:O	1:H:1005:PRO:HG2	2.20	0.41
1:H:707:PHE:O	1:H:1038:HIS:HB3	2.19	0.41
1:H:838:THR:HG1	1:H:954:TYR:HH	1.61	0.41
1:I:86:GLU:OE2	1:I:311:LEU:HG	2.21	0.41
1:I:635:HIS:CE1	1:I:640:VAL:HG21	2.55	0.41
1:I:643:ALA:O	4:n:87:TRP:CB	2.68	0.41
1:I:729:PRO:O	1:I:730:ALA:C	2.63	0.41
1:J:401:THR:OG1	1:J:1055:GLN:N	2.54	0.41
1:J:572:GLN:NE2	1:J:999:PHE:HZ	2.18	0.41
1:J:686:CYS:O	1:J:689:VAL:N	2.45	0.41
1:J:751:HIS:O	1:J:751:HIS:CG	2.70	0.41
1:J:1251:SER:O	1:J:1255:LEU:HG	2.20	0.41
1:K:263:ARG:HH12	1:K:307:GLY:N	2.18	0.41
1:K:303:PRO:HD2	1:K:361:THR:O	2.19	0.41
1:K:303:PRO:HG2	1:K:363:VAL:HB	2.02	0.41
1:K:1317:CYS:SG	1:P:110:HIS:NE2	2.90	0.41
1:L:214:VAL:HG22	1:M:1177:MET:HE1	2.01	0.41
1:L:473:VAL:O	1:L:477:ASN:HB2	2.21	0.41
1:L:544:HIS:CE1	1:L:1252:TYR:CD1	3.09	0.41
1:L:633:ALA:HB1	1:L:897:LEU:HD21	2.01	0.41
1:M:295:VAL:HG12	1:M:297:ASP:H	1.85	0.41
1:M:915:ASP:OD1	1:M:918:ALA:HB3	2.20	0.41
1:N:127:ARG:HD2	1:N:183:GLN:NE2	2.35	0.41
1:N:417:ALA:O	1:N:418:ALA:CB	2.68	0.41
1:O:220:VAL:HG12	1:O:224:LYS:NZ	2.35	0.41
1:O:347:ASN:CG	1:P:163:GLN:HB3	2.46	0.41
1:O:553:VAL:CG2	1:O:556:VAL:HG11	2.35	0.41
1:O:1222:VAL:O	1:O:1223:ILE:CB	2.67	0.41
1:O:1225:LEU:HD11	1:O:1234:PRO:HG2	1.94	0.41
1:P:76:SER:HB2	1:P:266:HIS:CD2	2.54	0.41
1:P:296:GLU:O	1:P:298:THR:N	2.53	0.41
1:P:456:ASN:OD1	1:P:1126:PRO:CG	2.66	0.41
1:P:563:VAL:CG1	1:P:564:PRO:CD	2.95	0.41
1:P:763:PRO:HB3	1:P:783:LEU:HD13	2.03	0.41
1:P:866:HIS:HD2	1:P:868:ALA:H	1.67	0.41
2:Q:295:VAL:HG12	2:Q:296:ARG:H	1.83	0.41
2:R:128:VAL:O	2:R:128:VAL:HG13	2.20	0.41
2:U:71:PHE:HA	2:U:72:PRO:HD3	1.95	0.41
3:V:447:VAL:CG1	3:V:448:PRO:HD2	2.50	0.41
2:W:90:LEU:HD23	2:W:90:LEU:HA	1.83	0.41
2:X:52:VAL:HG12	2:X:53:SER:O	2.20	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:X:126:THR:CG2	2:X:139:PHE:N	2.82	0.41
3:Y:202:ASP:HA	3:Y:205:GLU:CB	2.50	0.41
2:a:12:ILE:HG23	2:a:13:PRO:HD2	2.03	0.41
2:a:35:PRO:HD3	2:a:45:ASP:O	2.19	0.41
2:a:119:PRO:HG3	2:a:138:ARG:CD	2.36	0.41
3:b:322:GLN:NE2	3:b:322:GLN:HA	2.35	0.41
2:d:5:CYS:HG	2:d:86:CYS:HG	1.12	0.41
2:d:12:ILE:HD11	2:d:83:ILE:HG13	2.03	0.41
2:d:15:GLY:C	2:d:16:ILE:CG1	2.93	0.41
4:f:77:PRO:HD3	4:f:110:SER:HA	2.02	0.41
4:g:8:ARG:HA	4:g:9:PRO:HA	1.16	0.41
4:h:22:MET:HG2	4:h:64:LEU:HD13	2.02	0.41
4:h:94:LEU:C	4:h:95:LYS:O	2.59	0.41
4:i:8:ARG:HA	4:i:9:PRO:HA	1.16	0.41
4:n:16:ASN:CB	4:n:20:LEU:HD22	2.39	0.41
4:p:8:ARG:HA	4:p:9:PRO:HA	1.16	0.41
4:r:66:VAL:HG12	4:r:67:THR:HG22	2.02	0.41
4:t:22:MET:O	4:t:25:LEU:CB	2.57	0.41
4:t:22:MET:C	4:t:25:LEU:HB2	2.45	0.41
1:G:255:THR:HG22	1:G:1109:VAL:HG13	2.03	0.41
1:G:298:THR:HG21	1:G:362:ARG:CG	2.50	0.41
1:G:822:ARG:NH2	1:G:1013:SER:HG	2.09	0.41
1:A:102:PRO:HB2	1:B:388:THR:HG23	2.03	0.41
1:A:317:VAL:HG11	1:A:336:LEU:HB2	2.02	0.41
1:A:839:LEU:HD13	1:A:897:LEU:HD11	2.02	0.41
1:A:1339:ASP:HB2	1:A:1342:LEU:HG	2.02	0.41
1:A:1344:ARG:HE	1:F:1355:GLU:CD	2.28	0.41
1:B:184:MET:HB3	1:B:184:MET:HE3	1.81	0.41
1:B:804:ASP:O	1:B:808:HIS:ND1	2.33	0.41
1:B:1278:THR:O	1:B:1282:ILE:HD13	2.20	0.41
1:C:93:GLY:HA2	1:D:56:ALA:O	2.20	0.41
1:C:534:PRO:HA	1:D:1154:GLY:HA3	2.02	0.41
1:C:607:ALA:O	1:C:610:THR:HG22	2.21	0.41
1:C:626:VAL:HG12	1:C:878:MET:HG3	2.03	0.41
1:C:770:ASN:N	1:C:773:THR:HB	2.36	0.41
1:C:829:GLY:HA3	1:C:905:THR:HG21	2.03	0.41
1:C:835:VAL:HG12	1:C:839:LEU:HD11	2.01	0.41
1:C:1301:SER:HG	1:C:1319:GLU:HB2	1.85	0.41
1:D:14:ALA:HB2	1:M:156:HIS:CE1	2.56	0.41
1:D:409:PHE:HB3	1:D:1192:VAL:O	2.20	0.41
1:D:933:LEU:HG	1:D:960:VAL:CG1	2.50	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1340:PRO:O	1:D:1344:ARG:HG3	2.21	0.41
1:E:433:ARG:HA	1:E:433:ARG:HD3	1.86	0.41
1:E:839:LEU:O	1:E:894:LEU:HD21	2.20	0.41
1:E:1197:ASN:HD22	1:E:1197:ASN:H	1.64	0.41
1:F:598:GLU:O	1:F:601:VAL:HG22	2.21	0.41
1:F:783:LEU:HD23	1:F:934:HIS:CE1	2.56	0.41
1:F:1064:LEU:HD13	1:F:1110:ALA:HB2	2.03	0.41
1:F:1131:LEU:HB3	1:F:1267:SER:HB2	2.02	0.41
1:H:423:LEU:HA	1:H:423:LEU:HD23	1.88	0.41
1:H:433:ARG:HD2	1:H:1360:GLN:HG3	2.03	0.41
1:H:487:TYR:HA	1:H:509:TRP:CZ3	2.55	0.41
1:H:558:LEU:HD21	1:H:999:PHE:CE1	2.55	0.41
1:H:721:GLU:CD	1:H:729:PRO:HD3	2.46	0.41
1:H:963:LEU:HD23	1:H:1007:VAL:HG22	2.03	0.41
1:I:101:GLN:NE2	1:I:118:ASN:HD21	2.17	0.41
1:I:280:THR:OG1	1:I:285:LYS:HB2	2.21	0.41
1:I:300:ALA:HB3	1:I:362:ARG:HH21	1.86	0.41
1:I:580:GLY:HA2	1:I:592:ARG:NH1	2.35	0.41
1:I:836:TYR:HE1	1:I:897:LEU:HD22	1.85	0.41
1:I:933:LEU:HG	1:I:960:VAL:CG1	2.50	0.41
1:I:1070:SER:CB	1:I:1107:THR:CG2	2.99	0.41
1:I:1073:TYR:OH	1:I:1097:ARG:HD2	2.21	0.41
1:I:1166:PHE:CE1	2:W:284:GLN:HG3	2.56	0.41
1:J:182:ASP:CG	1:J:186:HIS:CD2	2.98	0.41
1:J:404:LEU:O	1:J:1052:VAL:N	2.40	0.41
1:J:454:MET:CE	1:J:1049:GLY:CA	2.98	0.41
1:J:454:MET:HE1	1:J:1049:GLY:HA3	2.03	0.41
1:J:607:ALA:O	1:J:610:THR:HG22	2.20	0.41
1:J:1048:PHE:HE2	1:J:1050:PHE:CE1	2.37	0.41
1:J:1100:VAL:HG12	1:J:1101:ASP:N	2.36	0.41
1:J:1273:CYS:CB	1:J:1277:PHE:HD2	2.25	0.41
1:K:324:LYS:HG2	1:L:55:ASP:HB3	2.01	0.41
1:K:466:LEU:HG	1:K:467:MET:HE3	2.02	0.41
1:K:559:PRO:CA	1:K:755:ARG:HH12	1.90	0.41
1:K:598:GLU:O	1:K:601:VAL:HG22	2.21	0.41
1:K:801:ARG:NH1	1:K:805:TRP:NE1	2.64	0.41
1:K:1128:ASN:HD22	1:K:1158:GLY:HA2	1.86	0.41
1:L:102:PRO:HD2	1:M:387:ALA:HB3	2.03	0.41
1:L:129:LEU:O	1:L:1095:GLN:N	2.48	0.41
1:L:392:TYR:O	1:L:395:VAL:HG12	2.20	0.41
1:L:400:LEU:HD23	1:L:400:LEU:HA	1.78	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:610:THR:O	1:L:614:VAL:HG23	2.20	0.41
1:L:889:PRO:O	1:L:893:THR:HG23	2.20	0.41
1:M:304:VAL:CG1	1:M:305:THR:H	2.04	0.41
1:M:544:HIS:HD1	1:M:1252:TYR:HB2	1.85	0.41
1:M:563:VAL:HG13	1:M:564:PRO:HD2	2.03	0.41
1:M:700:LEU:O	1:M:1025:MET:HE2	2.21	0.41
1:M:752:ARG:HA	1:M:752:ARG:HD3	1.82	0.41
1:N:618:PHE:HA	1:N:940:MET:HB3	2.01	0.41
1:N:758:ALA:HB2	1:N:906:THR:HG21	2.02	0.41
1:N:892:LEU:C	1:N:894:LEU:H	2.28	0.41
1:N:1073:TYR:H	1:N:1099:ASN:HA	1.85	0.41
1:N:1159:PRO:O	1:N:1160:ALA:C	2.59	0.41
1:O:760:GLY:N	1:O:781:GLY:CA	2.83	0.41
1:P:83:LYS:HE2	1:P:83:LYS:HB3	1.86	0.41
1:P:1226:MET:HE1	1:P:1282:ILE:HD12	2.02	0.41
2:Q:204:SER:O	2:Q:208:ASN:ND2	2.50	0.41
2:R:295:VAL:HG11	2:R:314:VAL:HG11	2.03	0.41
2:U:10:ILE:O	2:U:82:ARG:HA	2.21	0.41
2:W:204:SER:O	2:W:208:ASN:ND2	2.50	0.41
3:Y:36:VAL:HG23	3:Y:39:PRO:HG3	2.03	0.41
3:Y:209:ALA:HB3	3:Y:445:VAL:CG1	2.48	0.41
2:a:30:ARG:NH1	2:a:139:PHE:CB	2.83	0.41
2:a:122:GLU:HA	2:a:189:VAL:CG2	2.49	0.41
2:a:173:LEU:HB3	2:a:174:PRO:HD2	2.01	0.41
3:b:120:CYS:CB	3:b:184:LEU:O	2.64	0.41
4:f:22:MET:HE3	4:f:57:GLN:O	2.20	0.41
4:j:94:LEU:O	4:j:95:LYS:HB2	2.19	0.41
4:l:8:ARG:HA	4:l:9:PRO:HA	1.16	0.41
4:q:44:HIS:CD2	4:q:50:VAL:CG1	2.95	0.41
4:t:22:MET:HE1	4:t:57:GLN:C	2.45	0.41
1:G:106:ARG:HG3	1:G:107:ASP:N	2.35	0.41
1:G:185:LEU:HD21	1:G:393:PRO:HD2	2.03	0.41
1:G:295:VAL:HG22	1:G:369:ALA:HB2	2.01	0.41
1:G:520:TRP:CD1	1:G:997:ASN:ND2	2.89	0.41
1:G:994:LEU:HA	1:G:994:LEU:HD23	1.89	0.41
1:G:1266:ALA:CA	1:G:1312:LYS:NZ	2.77	0.41
1:G:1354:ARG:HA	1:G:1354:ARG:HD2	1.88	0.41
1:A:194:PRO:HG2	1:A:197:LEU:HB2	2.03	0.41
1:A:203:ARG:NH2	1:A:222:GLU:OE2	2.53	0.41
1:A:278:LEU:HD23	1:A:375:VAL:HG21	2.03	0.41
1:A:322:MET:HA	1:A:326:VAL:CG1	2.45	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:639:HIS:HD2	1:A:900:ASN:ND2	2.18	0.41
1:B:74:GLY:O	1:B:77:VAL:HG12	2.20	0.41
1:B:883:ARG:HD3	1:C:680:GLY:HA3	2.02	0.41
1:B:1312:LYS:HE2	1:B:1312:LYS:HB3	1.79	0.41
1:C:15:ALA:O	1:C:16:ALA:CB	2.68	0.41
1:C:298:THR:CB	1:C:366:ASP:HA	2.51	0.41
1:C:866:HIS:HD2	1:C:868:ALA:HB3	1.85	0.41
1:C:1049:GLY:O	1:C:1190:THR:N	2.48	0.41
1:E:42:VAL:CG1	1:E:44:SER:O	2.69	0.41
1:E:293:LEU:O	1:E:295:VAL:N	2.53	0.41
1:E:375:VAL:HG12	1:E:376:PHE:N	2.35	0.41
1:E:572:GLN:NE2	1:E:999:PHE:HZ	2.18	0.41
1:F:272:ARG:NH2	1:F:373:ARG:C	2.67	0.41
1:F:871:VAL:HG12	1:F:872:ALA:N	2.36	0.41
1:F:1178:ASP:OD2	1:F:1179:HIS:CE1	2.74	0.41
1:H:364:ARG:HG3	1:H:364:ARG:O	2.19	0.41
1:H:485:ASN:C	1:H:487:TYR:N	2.78	0.41
1:H:550:PHE:HE1	1:H:574:THR:HG22	1.84	0.41
1:H:582:LEU:CD1	1:H:587:CYS:HB2	2.50	0.41
1:I:92:GLU:HG2	1:I:94:ARG:NH2	2.35	0.41
1:I:233:PHE:CE2	1:I:244:ILE:HD13	2.56	0.41
1:I:724:HIS:CD2	1:I:726:MET:HB2	2.55	0.41
1:J:394:LEU:HD21	1:J:1064:LEU:N	2.35	0.41
1:J:408:LEU:CD1	1:J:1199:PHE:CE2	3.04	0.41
1:J:465:SER:OG	1:J:1256:LEU:HD21	2.19	0.41
1:J:466:LEU:HA	1:J:544:HIS:NE2	2.36	0.41
1:J:1009:HIS:HE1	1:J:1023:ALA:CB	2.34	0.41
1:J:1049:GLY:C	1:J:1050:PHE:CD1	2.98	0.41
1:J:1369:LEU:N	1:J:1369:LEU:HD22	2.35	0.41
1:K:736:VAL:O	1:K:934:HIS:O	2.39	0.41
1:K:756:ILE:O	1:K:757:ASP:CB	2.69	0.41
1:K:838:THR:O	1:K:875:VAL:HB	2.20	0.41
1:K:1042:THR:O	1:K:1042:THR:HG22	2.20	0.41
1:K:1059:VAL:HG23	1:K:1119:VAL:HG23	2.02	0.41
1:K:1078:LEU:O	1:K:1079:GLN:HG2	2.20	0.41
1:L:593:ASP:OD1	1:L:1009:HIS:NE2	2.33	0.41
1:L:1056:ASP:OD1	1:L:1122:MET:HG2	2.19	0.41
1:M:557:GLU:O	1:M:558:LEU:CB	2.69	0.41
1:M:831:ARG:O	1:M:835:VAL:HG23	2.20	0.41
1:M:1208:ARG:NH2	1:M:1240:ALA:O	2.53	0.41
1:M:1233:ASP:HB3	1:M:1236:ARG:O	2.20	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:109:PRO:HG2	2:a:42:ALA:CB	2.35	0.41
1:N:1086:GLY:HA2	2:T:99:ASN:HD22	1.78	0.41
1:O:249:VAL:O	1:O:253:THR:OG1	2.16	0.41
1:O:658:ASN:O	1:P:684:GLU:HB2	2.20	0.41
1:O:842:MET:SD	4:s:61:LEU:CD2	3.08	0.41
1:O:847:ILE:HG21	4:s:71:ASN:HA	2.01	0.41
1:O:867:PRO:CG	4:t:78:MET:O	2.69	0.41
1:O:1347:ARG:O	1:O:1348:ASP:CB	2.69	0.41
1:P:365:ALA:CB	1:P:376:PHE:HE1	2.34	0.41
1:P:484:ALA:O	1:P:485:ASN:HB3	2.20	0.41
1:P:599:LEU:HA	1:P:599:LEU:HD23	1.82	0.41
1:P:628:TYR:HB3	1:P:955:PHE:CZ	2.56	0.41
1:P:911:SER:HB3	1:P:929:PHE:CD1	2.56	0.41
2:Q:94:HIS:HA	2:Q:315:ILE:HD12	2.02	0.41
2:Q:105:PRO:HG3	2:Q:186:LEU:HD21	2.03	0.41
2:Q:296:ARG:HG3	2:Q:318:PRO:C	2.25	0.41
2:R:5:CYS:O	2:R:5:CYS:SG	2.78	0.41
2:R:268:ARG:O	2:R:269:LEU:HB2	2.21	0.41
2:U:52:VAL:HG12	2:U:53:SER:O	2.20	0.41
3:Y:351:ARG:HE	3:Y:351:ARG:CA	2.22	0.41
2:Z:47:ALA:HA	2:Z:137:LEU:HD23	2.03	0.41
2:Z:117:VAL:O	2:Z:120:VAL:HG12	2.20	0.41
2:a:5:CYS:CB	2:a:94:HIS:NE2	2.67	0.41
2:c:16:ILE:HG21	2:c:133:LEU:HD23	2.02	0.41
2:d:5:CYS:O	2:d:5:CYS:SG	2.78	0.41
2:d:268:ARG:O	2:d:269:LEU:HB2	2.21	0.41
3:e:445:VAL:HG12	3:e:446:GLY:N	2.36	0.41
4:g:77:PRO:HD3	4:g:110:SER:HA	2.03	0.41
4:g:106:PRO:HG2	4:g:107:LYS:H	1.85	0.41
4:i:77:PRO:HD3	4:i:110:SER:HA	2.02	0.41
4:k:12:ILE:O	4:k:13:THR:CB	2.69	0.41
4:m:27:LEU:HD12	4:m:27:LEU:HA	1.92	0.41
4:p:8:ARG:CA	4:p:18:ARG:H	2.34	0.41
4:p:41:PRO:HD2	4:p:42:HIS:H	1.84	0.41
1:G:36:PHE:N	1:G:38:PHE:H	2.19	0.41
1:G:94:ARG:NH1	1:G:123:VAL:HG22	2.36	0.41
1:G:277:VAL:O	1:G:278:LEU:C	2.62	0.41
1:G:294:LYS:HG3	1:G:295:VAL:N	2.35	0.41
1:G:417:ALA:C	1:G:419:HIS:H	2.28	0.41
1:G:606:MET:HB3	1:G:610:THR:CG2	2.51	0.41
1:G:666:ASN:HB3	1:G:940:MET:HG3	2.02	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:785:HIS:CD2	1:G:795:ALA:HB3	2.56	0.41
1:G:1067:GLU:HG2	1:G:1067:GLU:H	1.58	0.41
1:G:1218:LYS:HE2	1:G:1218:LYS:HB3	1.91	0.41
1:G:1295:GLU:O	1:G:1298:SER:OG	2.34	0.41
1:A:681:ASP:OD1	1:A:681:ASP:N	2.53	0.41
1:A:742:LEU:HD11	1:A:754:CYS:SG	2.61	0.41
1:A:861:PRO:HA	1:A:866:HIS:CG	2.56	0.41
1:A:1157:LEU:CD2	1:A:1309:VAL:HG11	2.40	0.41
1:A:1201:ARG:NH1	1:B:448:GLN:HB2	2.33	0.41
1:B:102:PRO:HD2	1:C:387:ALA:HB3	2.03	0.41
1:B:488:GLY:O	1:B:996:ALA:HB1	2.20	0.41
1:B:956:TYR:CE1	1:B:958:LEU:CD2	2.83	0.41
1:B:1278:THR:HG22	1:B:1282:ILE:CD1	2.51	0.41
1:C:576:ARG:HB2	1:C:1031:MET:HE3	2.02	0.41
1:C:1013:SER:OG	1:C:1020:LEU:HD22	2.20	0.41
1:C:1225:LEU:CD2	1:C:1225:LEU:C	2.93	0.41
1:D:54:PHE:CD1	1:D:54:PHE:C	2.98	0.41
1:D:721:GLU:HG2	1:D:727:ARG:O	2.21	0.41
1:D:1051:THR:CG2	1:D:1188:ILE:HB	2.50	0.41
1:D:1054:ARG:NH2	1:D:1185:CYS:SG	2.94	0.41
1:E:134:SER:C	1:E:135:LEU:HD12	2.46	0.41
1:E:285:LYS:HE2	1:E:377:LEU:HB3	2.02	0.41
1:E:365:ALA:CB	1:E:376:PHE:CE1	2.85	0.41
1:E:960:VAL:HG23	1:E:961:HIS:N	2.35	0.41
1:E:1155:ASN:CB	1:E:1158:GLY:H	2.34	0.41
1:F:231:SER:O	1:F:232:PHE:C	2.62	0.41
1:F:236:LYS:HG3	1:F:1372:LEU:HD21	2.02	0.41
1:F:1051:THR:CG2	1:F:1188:ILE:HB	2.50	0.41
1:F:1155:ASN:HB2	1:F:1158:GLY:HA3	2.03	0.41
1:H:142:LEU:O	1:H:158:GLN:NE2	2.33	0.41
1:H:301:ASP:O	1:H:361:THR:O	2.38	0.41
1:H:304:VAL:HB	1:H:305:THR:H	1.66	0.41
1:H:872:ALA:O	1:H:873:ASN:HB2	2.21	0.41
1:I:509:TRP:HB3	1:I:513:LEU:HB2	2.02	0.41
1:I:1225:LEU:HD22	1:I:1234:PRO:CD	2.49	0.41
1:I:1333:PRO:HD2	1:I:1366:ALA:HB3	2.01	0.41
1:J:245:GLU:O	1:J:249:VAL:HG13	2.21	0.41
1:J:527:THR:O	1:J:528:ALA:CB	2.69	0.41
1:J:579:ASN:HD22	1:J:1046:PRO:C	2.26	0.41
1:J:886:VAL:HG12	1:J:887:ASP:O	2.21	0.41
1:K:302:VAL:HG12	1:K:360:THR:HB	2.01	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:356:SER:O	1:K:357:ALA:HB3	2.21	0.41
1:K:416:PHE:CZ	1:L:1341:ALA:HB2	2.56	0.41
1:K:559:PRO:CB	1:K:755:ARG:NH1	2.59	0.41
1:K:578:VAL:HG11	1:K:725:LEU:HD22	2.02	0.41
1:K:667:ASP:O	1:K:671:VAL:HG23	2.20	0.41
1:K:1199:PHE:O	1:K:1200:ARG:CB	2.68	0.41
1:L:256:GLN:O	1:L:1067:GLU:OE1	2.39	0.41
1:L:1288:CYS:O	1:L:1292:LEU:HG	2.20	0.41
1:L:1374:LEU:O	1:L:1374:LEU:HD12	2.21	0.41
1:M:463:HIS:ND1	1:M:465:SER:HB3	2.35	0.41
1:M:526:MET:O	1:M:527:THR:CB	2.67	0.41
1:M:959:PRO:O	1:M:994:LEU:HD12	2.21	0.41
1:M:1354:ARG:HH22	1:M:1357:HIS:CD2	2.31	0.41
1:N:521:VAL:O	1:N:523:GLU:N	2.54	0.41
1:N:615:ARG:NH1	1:N:1017:GLU:OE2	2.51	0.41
1:N:1222:VAL:O	1:N:1223:ILE:CB	2.69	0.41
1:O:191:LYS:O	1:O:192:ALA:CB	2.68	0.41
1:O:472:ALA:O	1:O:476:VAL:HG12	2.21	0.41
1:O:606:MET:H	1:O:1018:ASN:ND2	2.18	0.41
1:O:724:HIS:CD2	1:O:726:MET:HB2	2.55	0.41
1:O:1298:SER:HB2	1:O:1320:LEU:HD22	2.02	0.41
3:S:202:ASP:HA	3:S:205:GLU:CB	2.50	0.41
3:S:257:GLN:O	3:S:258:ASP:C	2.58	0.41
2:T:94:HIS:HA	2:T:315:ILE:HD12	2.02	0.41
2:U:176:LEU:HD23	2:U:176:LEU:HA	1.78	0.41
3:V:113:GLN:HG3	3:V:114:VAL:N	2.34	0.41
2:W:12:ILE:HB	2:W:81:THR:HA	2.01	0.41
2:W:143:LEU:HD13	2:W:147:LEU:HD23	2.03	0.41
2:X:267:ARG:HH22	3:Y:145:ARG:HA	1.86	0.41
2:Z:183:GLY:O	2:Z:184:ALA:HB2	2.15	0.41
2:Z:289:LEU:HA	2:Z:289:LEU:HD23	1.74	0.41
3:b:198:TYR:CD2	3:b:198:TYR:O	2.74	0.41
3:b:287:THR:CG2	3:b:288:ILE:H	2.33	0.41
3:b:292:ALA:HB3	3:b:296:LEU:N	2.32	0.41
2:c:143:LEU:HD13	2:c:147:LEU:HD23	2.03	0.41
2:d:88:VAL:HG13	2:d:92:LEU:HD22	2.02	0.41
3:e:39:PRO:CB	3:e:40:PRO:CA	2.95	0.41
3:e:437:HIS:CA	3:e:449:VAL:HG12	2.50	0.41
4:j:22:MET:HE2	4:j:60:ALA:HB1	1.92	0.41
4:l:22:MET:O	4:l:25:LEU:CB	2.57	0.41
4:l:44:HIS:HD2	4:l:47:GLN:O	1.98	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:o:12:ILE:O	4:o:13:THR:CB	2.69	0.41
4:q:66:VAL:HG12	4:q:67:THR:HG22	2.01	0.41
4:q:94:LEU:C	4:q:95:LYS:O	2.58	0.41
4:s:8:ARG:HA	4:s:9:PRO:HA	1.65	0.41
4:s:77:PRO:HD3	4:s:110:SER:HA	2.02	0.41
4:t:46:THR:O	4:t:47:GLN:CB	2.69	0.41
4:t:66:VAL:HG12	4:t:67:THR:HG22	2.02	0.41
4:t:71:ASN:O	4:t:72:THR:CB	2.69	0.41
1:G:124:ILE:HG22	1:G:1100:VAL:CG1	2.48	0.41
1:G:458:VAL:HG23	1:G:462:CYS:SG	2.60	0.41
1:G:961:HIS:C	1:G:990:VAL:HG21	2.45	0.41
1:A:209:ARG:O	1:A:210:LEU:CD2	2.67	0.41
1:A:396:GLY:O	1:A:1059:VAL:HA	2.21	0.41
1:A:563:VAL:CG1	1:A:564:PRO:HD2	2.38	0.41
1:A:883:ARG:HD3	1:B:680:GLY:C	2.46	0.41
1:A:889:PRO:HD3	4:g:69:ALA:HB2	1.91	0.41
1:B:40:ALA:O	1:B:41:ARG:CB	2.69	0.41
1:B:746:ALA:HA	1:B:751:HIS:CD2	2.56	0.41
1:B:1178:ASP:OD2	1:B:1179:HIS:CE1	2.73	0.41
1:C:85:PRO:HB3	1:C:1077:GLN:HE21	1.85	0.41
1:C:284:ILE:O	1:C:288:LEU:HB2	2.20	0.41
1:C:290:GLN:O	1:C:291:SER:CB	2.68	0.41
1:C:380:LEU:HA	1:C:380:LEU:HD23	1.87	0.41
1:C:539:LEU:HD11	1:C:1244:PRO:HB3	2.03	0.41
1:C:842:MET:HG2	4:i:61:LEU:CD2	2.40	0.41
1:C:914:PRO:O	1:C:919:ASN:ND2	2.54	0.41
1:D:28:GLU:HA	1:L:101:GLN:HE22	1.85	0.41
1:D:120:MET:SD	1:I:36:PHE:CE1	3.14	0.41
1:D:449:VAL:O	1:D:449:VAL:CG1	2.69	0.41
1:D:674:ILE:O	1:D:678:LEU:HB2	2.21	0.41
1:D:815:VAL:HG22	1:D:1028:TYR:HE2	1.86	0.41
1:D:1196:ILE:O	1:D:1199:PHE:HB2	2.20	0.41
1:D:1304:THR:HG21	1:D:1314:PRO:HD2	2.02	0.41
1:E:508:ALA:HB3	1:E:509:TRP:HD1	1.86	0.41
1:E:1279:ALA:O	1:E:1282:ILE:N	2.54	0.41
1:F:71:LEU:HA	1:F:71:LEU:HD23	1.80	0.41
1:F:256:GLN:HA	1:F:257:PRO:HD3	1.96	0.41
1:F:431:GLU:OE1	1:F:431:GLU:CA	2.69	0.41
1:F:433:ARG:HA	1:F:433:ARG:HD3	1.84	0.41
1:F:903:GLU:HG2	1:F:904:ARG:N	2.35	0.41
1:F:1054:ARG:CZ	1:F:1123:GLY:CA	2.99	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1158:GLY:HA2	1:F:1159:PRO:HD3	1.94	0.41
1:I:201:MET:HE1	1:I:1289:LEU:HB3	2.02	0.41
1:J:193:PRO:HB3	1:J:1294:VAL:HG12	2.03	0.41
1:J:279:VAL:HG23	1:J:394:LEU:HD11	2.01	0.41
1:J:438:ARG:NH2	1:J:438:ARG:CB	2.73	0.41
1:J:549:PHE:CE1	1:J:573:ALA:HB2	2.56	0.41
1:J:717:GLN:NE2	1:J:730:ALA:HB2	2.35	0.41
1:J:1016:GLY:C	1:J:1018:ASN:N	2.78	0.41
1:J:1299:ALA:O	1:J:1320:LEU:N	2.53	0.41
1:K:193:PRO:HD3	1:K:1294:VAL:HG12	2.01	0.41
1:K:422:ASP:N	1:K:424:VAL:HG23	2.35	0.41
1:K:750:ARG:O	1:K:752:ARG:HD3	2.20	0.41
1:K:1241:THR:HG21	1:K:1247:SER:OG	2.20	0.41
1:K:1328:PHE:O	1:K:1330:GLU:HG3	2.21	0.41
1:L:392:TYR:CE2	1:L:394:LEU:HB2	2.56	0.41
1:L:497:PRO:HG2	1:L:500:ASP:OD1	2.20	0.41
1:L:656:TRP:HZ2	1:L:685:GLU:HG2	1.84	0.41
1:L:1278:THR:HG22	1:L:1280:ALA:HB3	2.02	0.41
1:M:295:VAL:O	1:M:296:GLU:C	2.64	0.41
1:M:381:GLU:O	1:M:382:LYS:CB	2.69	0.41
1:M:889:PRO:O	1:M:893:THR:HG23	2.21	0.41
1:M:1059:VAL:CG2	1:M:1119:VAL:HG21	2.46	0.41
1:M:1125:LEU:HA	1:M:1126:PRO:HD3	1.87	0.41
1:N:436:PRO:HA	1:N:437:PRO:HD3	1.96	0.41
1:O:11:TYR:CD2	1:O:13:TYR:CE1	3.09	0.41
1:O:79:CYS:SG	1:O:81:CYS:SG	3.19	0.41
1:O:395:VAL:O	1:O:395:VAL:CG1	2.69	0.41
1:O:732:LEU:HB2	1:O:733:PRO:HD2	2.02	0.41
1:O:1076:GLY:HA3	1:O:1096:PRO:HG2	2.02	0.41
1:O:1162:PRO:O	1:O:1163:LEU:C	2.63	0.41
1:O:1215:ALA:HB1	1:O:1221:ASP:HB2	2.02	0.41
1:P:39:PHE:CE2	1:P:41:ARG:HB2	2.56	0.41
1:P:269:THR:O	1:P:269:THR:CG2	2.68	0.41
1:P:448:GLN:O	1:P:448:GLN:CG	2.68	0.41
1:P:732:LEU:HB3	1:P:745:HIS:CD2	2.56	0.41
1:P:905:THR:CG2	1:P:956:TYR:OH	2.69	0.41
1:P:958:LEU:HD22	1:P:994:LEU:HD11	2.03	0.41
2:Q:47:ALA:HA	2:Q:137:LEU:HD23	2.03	0.41
2:Q:117:VAL:O	2:Q:120:VAL:HG12	2.20	0.41
2:R:16:ILE:N	2:R:132:SER:HB3	2.36	0.41
3:S:292:ALA:HB1	3:S:294:VAL:H	1.85	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:S:292:ALA:C	3:S:294:VAL:N	2.65	0.41
2:T:47:ALA:HA	2:T:137:LEU:HD23	2.03	0.41
2:U:88:VAL:HG13	2:U:92:LEU:HD22	2.03	0.41
2:X:12:ILE:CG2	2:X:13:PRO:HD2	2.50	0.41
2:Z:143:LEU:HD13	2:Z:147:LEU:HD23	2.03	0.41
3:b:107:ARG:O	3:b:108:TYR:CB	2.68	0.41
2:c:47:ALA:HA	2:c:137:LEU:HD23	2.03	0.41
2:d:159:GLY:CA	2:d:193:GLN:HG2	2.51	0.41
2:d:295:VAL:HG11	2:d:314:VAL:HG11	2.03	0.41
3:e:11:MET:HA	3:e:14:ALA:HB3	2.03	0.41
3:e:433:PRO:CB	3:e:453:GLU:N	2.83	0.41
4:k:46:THR:O	4:k:47:GLN:CB	2.69	0.41
4:m:22:MET:HE2	4:m:60:ALA:HB1	1.92	0.41
4:m:77:PRO:HD3	4:m:110:SER:HA	2.02	0.41
4:n:44:HIS:HD2	4:n:47:GLN:O	1.98	0.41
4:q:12:ILE:O	4:q:13:THR:CB	2.69	0.41
4:s:21:GLY:O	4:s:25:LEU:HD12	2.20	0.41
4:t:67:THR:OG1	4:t:67:THR:O	2.37	0.41
1:G:44:SER:O	1:G:45:ASP:CB	2.69	0.41
1:G:91:ASN:O	1:G:92:GLU:CB	2.69	0.41
1:G:233:PHE:HE2	1:G:244:ILE:HA	1.86	0.41
1:G:251:LEU:HD21	1:G:1063:VAL:CG1	2.49	0.41
1:G:518:VAL:HG23	1:G:520:TRP:O	2.21	0.41
1:G:531:PHE:CE1	1:G:1244:PRO:HD3	2.56	0.41
1:G:1165:VAL:HG21	2:R:240:LEU:HD12	2.03	0.41
1:G:1198:TYR:O	1:G:1199:PHE:CB	2.69	0.41
1:G:1324:PRO:HB3	1:G:1328:PHE:CE2	2.56	0.41
1:A:156:HIS:O	1:A:159:LEU:HB3	2.21	0.41
1:A:172:VAL:O	1:A:175:ALA:HB3	2.21	0.41
1:A:223:LEU:HD12	1:A:223:LEU:HA	1.82	0.41
1:A:241:ARG:C	1:A:243:ALA:N	2.75	0.41
1:A:245:GLU:OE2	1:A:292:PHE:HD1	2.04	0.41
1:A:530:GLN:OE1	1:A:585:ALA:HB3	2.21	0.41
1:A:606:MET:HG3	1:A:696:HIS:CD2	2.55	0.41
1:A:721:GLU:HG2	1:A:727:ARG:O	2.20	0.41
1:A:845:PRO:HG3	1:A:869:ASN:OD1	2.21	0.41
1:A:892:LEU:HD11	4:g:65:GLY:O	2.20	0.41
1:A:958:LEU:HD11	1:A:994:LEU:HD11	2.03	0.41
1:A:1054:ARG:HH11	1:A:1123:GLY:CA	2.34	0.41
1:A:1335:THR:HA	1:A:1363:ILE:O	2.21	0.41
1:B:135:LEU:HD11	1:B:139:ALA:HB3	2.03	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:137:THR:H	1:B:140:ILE:HD12	1.86	0.41
1:B:220:VAL:O	1:B:224:LYS:HG2	2.21	0.41
1:B:285:LYS:HG3	1:B:377:LEU:CD2	2.51	0.41
1:B:541:LEU:CD2	1:B:571:ILE:HD11	2.50	0.41
1:B:598:GLU:O	1:B:601:VAL:HG22	2.20	0.41
1:B:865:LEU:CD1	1:B:891:MET:HE1	2.51	0.41
1:B:960:VAL:HG23	1:B:961:HIS:N	2.36	0.41
1:C:148:LEU:HG	1:C:154:SER:HB3	2.02	0.41
1:C:194:PRO:HA	1:C:1110:ALA:O	2.20	0.41
1:C:256:GLN:NE2	1:C:257:PRO:HD2	2.36	0.41
1:C:798:ARG:HA	1:C:799:PRO:HD3	1.95	0.41
1:C:959:PRO:HB3	1:C:964:PHE:O	2.20	0.41
1:C:1032:SER:O	1:C:1036:LEU:HB3	2.21	0.41
1:C:1085:THR:HG21	1:C:1090:ASN:OD1	2.19	0.41
1:D:114:GLN:HB2	1:E:133:PHE:HA	2.03	0.41
1:D:235:GLY:CA	1:D:1114:THR:HG22	2.51	0.41
1:D:322:MET:HE1	1:H:322:MET:HB2	2.02	0.41
1:D:425:PRO:HG3	1:D:431:GLU:HB2	2.02	0.41
1:D:449:VAL:O	1:D:449:VAL:HG13	2.21	0.41
1:D:544:HIS:CD2	1:D:547:PHE:CD2	3.08	0.41
1:E:58:LEU:HA	1:E:58:LEU:HD23	1.79	0.41
1:E:399:ASP:OD2	1:E:1321:VAL:HG11	2.20	0.41
1:E:458:VAL:HG23	1:E:462:CYS:SG	2.60	0.41
1:E:467:MET:HB2	1:E:920:THR:HG21	2.02	0.41
1:E:470:ASP:OD1	1:E:471:ALA:N	2.54	0.41
1:E:550:PHE:O	1:E:571:ILE:HG13	2.20	0.41
1:E:593:ASP:OD1	1:E:1009:HIS:NE2	2.44	0.41
1:E:735:LEU:HD22	1:E:936:GLY:HA3	2.03	0.41
1:E:841:ASN:OD1	4:k:57:GLN:NE2	2.52	0.41
1:E:1050:PHE:CD1	1:E:1187:PHE:HB3	2.56	0.41
1:E:1081:ALA:HB3	1:E:1092:THR:CG2	2.51	0.41
1:E:1195:ASP:OD1	1:E:1195:ASP:N	2.52	0.41
1:E:1196:ILE:HD12	1:E:1196:ILE:HG23	1.81	0.41
1:E:1340:PRO:HB2	1:E:1344:ARG:HH12	1.86	0.41
1:E:1342:LEU:O	1:E:1345:SER:OG	2.29	0.41
1:F:136:ALA:O	1:F:140:ILE:HD12	2.20	0.41
1:F:193:PRO:O	1:F:194:PRO:C	2.60	0.41
1:F:207:ASN:OD1	1:F:207:ASN:O	2.38	0.41
1:F:384:ILE:HD11	1:F:385:TYR:CE2	2.56	0.41
1:F:872:ALA:O	1:F:873:ASN:HB2	2.21	0.41
1:F:933:LEU:CD1	1:F:958:LEU:HD23	2.51	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1042:THR:HG22	1:F:1042:THR:O	2.20	0.41
1:H:81:CYS:HB3	1:H:306:TYR:HE1	1.85	0.41
1:H:521:VAL:C	1:H:523:GLU:H	2.29	0.41
1:H:815:VAL:HG22	1:H:1028:TYR:HE2	1.86	0.41
1:H:1116:ARG:HB3	1:H:1117:ASN:H	1.61	0.41
1:H:1204:ASN:OD1	1:H:1206:ARG:HG2	2.20	0.41
1:H:1218:LYS:NZ	1:I:1173:ARG:CD	2.83	0.41
1:H:1223:ILE:O	1:H:1226:MET:N	2.43	0.41
1:I:289:LEU:HA	1:I:293:LEU:HB2	2.03	0.41
1:I:365:ALA:CB	1:I:376:PHE:CE1	2.99	0.41
1:I:525:GLN:CD	1:I:536:ASN:HB3	2.46	0.41
1:I:815:VAL:HG22	1:I:1028:TYR:HE2	1.84	0.41
1:I:857:PRO:HB3	1:I:863:HIS:CE1	2.56	0.41
1:J:266:HIS:CD2	1:J:266:HIS:N	2.88	0.41
1:J:274:VAL:HG11	1:J:376:PHE:CZ	2.56	0.41
1:J:481:VAL:HG22	1:J:482:GLU:N	2.36	0.41
1:J:494:PRO:CB	1:J:757:ASP:CB	2.97	0.41
1:J:500:ASP:HB2	1:J:503:GLN:HB3	2.03	0.41
1:J:595:ARG:O	1:J:599:LEU:N	2.53	0.41
1:J:611:ILE:HD13	1:J:611:ILE:HG21	1.86	0.41
1:J:888:GLY:N	1:J:889:PRO:HD2	2.36	0.41
1:J:924:ALA:HB2	1:J:1139:LEU:HD11	2.03	0.41
1:J:1081:ALA:HB3	1:J:1092:THR:HG23	2.03	0.41
1:J:1161:GLN:OE1	1:J:1162:PRO:HD2	2.21	0.41
1:J:1265:GLY:O	1:J:1266:ALA:CB	2.68	0.41
1:K:13:TYR:O	1:K:14:ALA:CB	2.69	0.41
1:K:104:ILE:HG12	1:L:390:VAL:HG21	2.02	0.41
1:K:224:LYS:HB3	1:K:1328:PHE:CE1	2.55	0.41
1:K:275:ASP:OD1	1:K:373:ARG:CG	2.69	0.41
1:K:277:VAL:HG12	1:K:278:LEU:N	2.36	0.41
1:K:317:VAL:O	1:K:321:VAL:HG22	2.21	0.41
1:K:395:VAL:O	1:K:395:VAL:HG13	2.21	0.41
1:K:778:ARG:HG3	1:K:904:ARG:HE	1.85	0.41
1:L:58:LEU:N	1:L:58:LEU:CD1	2.83	0.41
1:L:111:PRO:O	1:L:112:VAL:CB	2.69	0.41
1:L:304:VAL:HG21	1:L:358:PRO:HG3	2.02	0.41
1:L:314:ALA:O	1:L:329:LEU:HD23	2.21	0.41
1:L:347:ASN:HD21	1:M:163:GLN:CG	2.34	0.41
1:L:423:LEU:HB3	1:L:433:ARG:NH2	2.36	0.41
1:L:458:VAL:HG23	1:L:462:CYS:SG	2.60	0.41
1:L:978:PRO:HA	1:L:981:ARG:HG2	2.03	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:1221:ASP:O	1:L:1225:LEU:HB2	2.20	0.41
1:M:203:ARG:O	1:M:203:ARG:CG	2.69	0.41
1:M:440:LEU:O	1:M:451:ARG:HA	2.20	0.41
1:M:451:ARG:NH2	1:M:453:SER:HB3	2.36	0.41
1:M:684:GLU:HA	1:M:687:MET:HB3	2.03	0.41
1:M:1119:VAL:O	1:M:1119:VAL:CG1	2.68	0.41
1:M:1208:ARG:NH1	1:M:1232:SER:O	2.53	0.41
1:M:1348:ASP:HB3	1:M:1352:HIS:HE1	1.18	0.41
1:M:1364:TYR:CG	1:M:1365:ASP:N	2.89	0.41
1:N:80:VAL:O	1:N:1072:ALA:O	2.38	0.41
1:N:297:ASP:OD1	1:N:297:ASP:N	2.54	0.41
1:N:422:ASP:OD1	1:N:422:ASP:N	2.50	0.41
1:N:681:ASP:OD1	1:N:681:ASP:N	2.49	0.41
1:N:757:ASP:O	1:N:906:THR:CG2	2.68	0.41
1:N:905:THR:HB	1:N:935:ALA:O	2.21	0.41
1:N:1198:TYR:O	1:N:1198:TYR:HD1	2.04	0.41
1:O:134:SER:HB3	1:O:1090:ASN:OD1	2.21	0.41
1:O:266:HIS:O	1:O:267:ALA:CB	2.69	0.41
1:O:299:GLU:HB2	1:O:364:ARG:CZ	2.51	0.41
1:O:506:LEU:HA	1:O:506:LEU:HD23	1.83	0.41
1:O:633:ALA:HB2	1:O:839:LEU:CD1	2.51	0.41
1:O:706:ASP:O	1:O:1042:THR:HG21	2.20	0.41
1:O:867:PRO:HG2	4:t:78:MET:O	2.21	0.41
1:O:937:VAL:HG12	1:O:939:LEU:HD12	2.02	0.41
1:O:1125:LEU:HA	1:O:1126:PRO:HD3	1.98	0.41
1:P:11:TYR:HB2	1:P:38:PHE:CE2	2.55	0.41
1:P:80:VAL:O	1:P:1072:ALA:O	2.39	0.41
1:P:248:LEU:HD21	1:P:288:LEU:HD12	2.02	0.41
1:P:259:VAL:HG11	1:P:1102:LEU:HD13	2.01	0.41
1:P:264:LEU:HD23	1:P:264:LEU:HA	1.87	0.41
1:P:301:ASP:OD2	1:P:376:PHE:CZ	2.74	0.41
1:P:328:SER:O	1:P:331:ASP:N	2.54	0.41
1:P:1118:PRO:HD3	1:P:1374:LEU:HD22	2.02	0.41
1:P:1155:ASN:HB2	1:P:1158:GLY:H	1.86	0.41
1:P:1328:PHE:HB2	1:P:1330:GLU:OE1	2.20	0.41
2:Q:160:ILE:HD13	2:Q:160:ILE:HA	1.91	0.41
2:R:173:LEU:HB3	2:R:174:PRO:HD2	2.01	0.41
2:R:193:GLN:CG	2:R:198:VAL:HG21	2.51	0.41
2:R:299:THR:OG1	2:R:303:ALA:O	2.29	0.41
3:S:139:ASP:O	3:S:140:LEU:CB	2.69	0.41
3:S:254:TRP:N	3:S:254:TRP:CD2	2.72	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:S:300:LEU:CG	3:S:332:SER:HA	2.41	0.41
2:T:92:LEU:CD1	2:T:92:LEU:C	2.92	0.41
2:T:227:LEU:CD2	2:U:164:ASN:HD21	2.33	0.41
2:U:17:SER:C	2:U:19:PRO:HD2	2.46	0.41
2:U:98:VAL:O	2:U:98:VAL:HG13	2.19	0.41
2:W:47:ALA:HA	2:W:137:LEU:HD23	2.03	0.41
2:W:94:HIS:HA	2:W:315:ILE:HD12	2.02	0.41
2:W:163:LEU:HA	2:W:163:LEU:HD12	1.77	0.41
2:X:230:LEU:HB2	2:X:237:VAL:HG11	2.03	0.41
3:Y:262:SER:O	3:Y:262:SER:OG	2.32	0.41
2:Z:256:PRO:O	2:Z:260:MET:CA	2.69	0.41
2:a:81:THR:O	2:a:82:ARG:HG3	2.21	0.41
2:a:246:VAL:CG1	2:a:247:THR:N	2.82	0.41
2:a:295:VAL:HG11	2:a:314:VAL:HG11	2.03	0.41
2:c:180:TYR:HA	2:c:185:ARG:HA	2.02	0.41
2:d:10:ILE:O	2:d:82:ARG:HA	2.21	0.41
2:d:123:GLY:O	2:d:124:GLN:CB	2.69	0.41
2:d:129:ARG:HD2	2:d:130:LEU:H	1.85	0.41
3:e:134:LEU:HD22	3:e:185:VAL:HG22	2.01	0.41
3:e:137:PRO:HD2	3:e:138:THR:CA	2.51	0.41
3:e:279:PRO:CB	3:e:285:ALA:N	2.80	0.41
3:e:425:LEU:HA	3:e:425:LEU:HD23	1.77	0.41
4:f:99:SER:O	4:f:100:PRO:CB	2.68	0.41
4:h:9:PRO:HA	4:h:18:ARG:N	2.35	0.41
4:h:66:VAL:HG12	4:h:67:THR:HG22	2.02	0.41
4:h:95:LYS:O	4:h:96:ARG:CB	2.69	0.41
4:i:46:THR:O	4:i:47:GLN:CB	2.69	0.41
4:j:12:ILE:O	4:j:13:THR:CB	2.69	0.41
4:o:22:MET:O	4:o:25:LEU:CB	2.57	0.41
4:o:77:PRO:HD3	4:o:110:SER:HA	2.03	0.41
4:p:22:MET:HE2	4:p:60:ALA:HB1	1.92	0.41
4:p:106:PRO:HG2	4:p:107:LYS:N	2.36	0.41
4:q:46:THR:O	4:q:47:GLN:CB	2.69	0.41
4:r:22:MET:HE1	4:r:57:GLN:C	2.45	0.41
4:r:77:PRO:HD3	4:r:110:SER:HA	2.02	0.41
4:s:10:SER:H	4:s:17:VAL:HA	1.84	0.41
4:s:96:ARG:O	4:s:96:ARG:CG	2.69	0.41
4:t:77:PRO:HD3	4:t:110:SER:HA	2.02	0.41
1:G:121:THR:OG1	1:B:49:LEU:CD2	2.59	0.41
1:G:467:MET:CE	1:G:1033:PRO:HG3	2.45	0.41
1:A:607:ALA:O	1:A:610:THR:HG22	2.20	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:656:TRP:CE2	1:A:686:CYS:HB3	2.56	0.41
1:A:1218:LYS:O	1:A:1218:LYS:CG	2.59	0.41
1:B:49:LEU:HD22	1:B:50:TYR:H	1.85	0.41
1:B:433:ARG:HD3	1:B:433:ARG:HA	1.81	0.41
1:B:493:ALA:CB	1:B:755:ARG:NH2	2.84	0.41
1:B:534:PRO:O	1:B:535:ASP:CB	2.69	0.41
1:B:1051:THR:CG2	1:B:1188:ILE:HB	2.51	0.41
1:B:1340:PRO:HB2	1:B:1344:ARG:HH12	1.84	0.41
1:C:263:ARG:CZ	1:C:307:GLY:HA3	2.50	0.41
1:C:384:ILE:HG13	1:C:385:TYR:N	2.36	0.41
1:C:502:GLN:HE22	1:C:970:VAL:HG13	1.86	0.41
1:C:743:MET:CE	1:C:785:HIS:CE1	3.04	0.41
1:C:813:TYR:O	1:C:818:PRO:CD	2.69	0.41
1:C:847:ILE:HG23	4:i:71:ASN:HA	2.01	0.41
1:C:960:VAL:HG23	1:C:961:HIS:N	2.36	0.41
1:C:976:PHE:HE2	1:C:981:ARG:HD2	1.86	0.41
1:C:978:PRO:O	1:C:981:ARG:HG2	2.21	0.41
1:C:978:PRO:HA	1:C:981:ARG:HG2	2.03	0.41
1:C:1009:HIS:CD2	1:C:1013:SER:HB3	2.56	0.41
1:D:142:LEU:HD21	1:D:157:ARG:HB3	2.03	0.41
1:D:487:TYR:HE1	1:D:505:PHE:HZ	1.69	0.41
1:D:559:PRO:O	1:D:755:ARG:NH2	2.34	0.41
1:D:707:PHE:CD1	1:D:1044:LEU:HB2	2.57	0.41
1:D:892:LEU:HD21	4:j:65:GLY:CA	2.52	0.41
1:D:1104:VAL:HG21	1:I:23:ILE:HD13	2.02	0.41
1:E:97:PHE:HB2	1:E:120:MET:HG2	2.03	0.41
1:E:202:GLN:HA	1:E:205:LEU:HD23	2.03	0.41
1:E:579:ASN:C	1:E:582:LEU:HD11	2.44	0.41
1:F:82:THR:HG21	1:F:327:ARG:HH22	1.86	0.41
1:F:604:HIS:O	1:F:1022:TYR:OH	2.30	0.41
1:F:1196:ILE:HD12	1:F:1196:ILE:HG23	1.65	0.41
1:H:135:LEU:HD21	1:H:165:LEU:HD13	2.03	0.41
1:H:299:GLU:HG2	1:H:365:ALA:O	2.20	0.41
1:H:531:PHE:O	1:H:1240:ALA:N	2.46	0.41
1:H:857:PRO:HB3	1:H:865:LEU:HB2	2.02	0.41
1:H:1095:GLN:NE2	1:H:1097:ARG:NH1	2.68	0.41
1:I:381:GLU:HA	1:I:385:TYR:HB2	2.03	0.41
1:I:840:GLN:CB	1:I:894:LEU:HD23	2.48	0.41
1:I:870:LEU:HD22	1:I:877:ALA:HA	2.02	0.41
1:I:1165:VAL:HG23	1:I:1166:PHE:N	2.35	0.41
1:I:1194:THR:CG2	1:I:1242:ALA:O	2.69	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:1210:ALA:HB3	1:I:1329:GLN:HE21	1.79	0.41
1:J:74:GLY:CA	1:J:376:PHE:CD2	3.04	0.41
1:J:124:ILE:HG22	1:J:1100:VAL:CG2	2.51	0.41
1:J:193:PRO:HD2	1:J:1108:ALA:O	2.21	0.41
1:J:497:PRO:HD2	1:J:504:ARG:HH22	1.86	0.41
1:J:500:ASP:O	1:J:503:GLN:N	2.53	0.41
1:J:778:ARG:HH12	1:J:782:ARG:CD	2.12	0.41
1:J:986:HIS:O	1:J:987:VAL:CB	2.69	0.41
1:J:1186:GLU:OE2	1:J:1271:SER:CA	2.50	0.41
1:K:142:LEU:HB2	1:K:161:ALA:HB2	2.02	0.41
1:K:155:LEU:HD12	1:P:340:GLN:CD	2.43	0.41
1:K:473:VAL:O	1:K:477:ASN:HB2	2.21	0.41
1:K:488:GLY:O	1:K:996:ALA:HB1	2.21	0.41
1:L:626:VAL:CG1	1:L:878:MET:HG3	2.50	0.41
1:L:646:ARG:HD2	4:q:79:PHE:CB	2.51	0.41
1:L:813:TYR:O	1:L:818:PRO:HD2	2.21	0.41
1:L:948:THR:HG23	1:L:949:ILE:HG13	2.02	0.41
1:L:1301:SER:O	1:L:1313:ARG:HD3	2.21	0.41
1:M:69:ARG:HD3	1:M:69:ARG:HA	1.82	0.41
1:M:77:VAL:HG11	1:M:277:VAL:HG22	1.99	0.41
1:M:267:ALA:HB1	1:M:274:VAL:N	2.36	0.41
1:M:385:TYR:CD2	1:M:392:TYR:HD1	2.39	0.41
1:M:444:GLY:O	1:M:446:ASP:O	2.39	0.41
1:M:544:HIS:HE1	1:M:1252:TYR:CD1	2.26	0.41
1:M:619:GLU:HG2	1:M:824:ARG:HH21	1.86	0.41
1:M:714:LEU:HD13	1:M:719:GLN:HE22	1.86	0.41
1:M:946:ASP:OD1	1:N:677:TYR:CE1	2.74	0.41
1:M:1077:GLN:O	1:M:1096:PRO:HD2	2.20	0.41
1:N:194:PRO:HG2	1:N:197:LEU:HB2	2.02	0.41
1:N:390:VAL:HA	1:N:391:PRO:HD3	1.88	0.41
1:N:392:TYR:HA	1:N:393:PRO:HD3	1.95	0.41
1:N:399:ASP:O	1:N:1324:PRO:HD2	2.21	0.41
1:N:562:GLU:O	1:N:563:VAL:HG23	2.21	0.41
1:N:565:PRO:O	1:N:565:PRO:CG	2.69	0.41
1:N:628:TYR:HB3	1:N:955:PHE:HZ	1.83	0.41
1:N:732:LEU:HD13	1:N:736:VAL:HG21	2.03	0.41
1:N:1155:ASN:HB2	1:N:1158:GLY:HA3	2.02	0.41
1:O:33:ARG:O	1:O:34:ARG:CB	2.69	0.41
1:O:34:ARG:HH21	1:O:34:ARG:HD2	1.73	0.41
1:O:258:SER:OG	1:O:259:VAL:N	2.54	0.41
1:O:534:PRO:HG3	1:P:1154:GLY:O	2.21	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:840:GLN:CD	4:s:58:ALA:HA	2.46	0.41
1:P:188:LEU:O	1:P:191:LYS:O	2.39	0.41
1:P:643:ALA:HB1	1:P:896:VAL:HG21	2.03	0.41
1:P:1051:THR:HG23	1:P:1190:THR:HG21	2.02	0.41
1:P:1197:ASN:C	1:P:1199:PHE:N	2.77	0.41
2:R:92:LEU:C	2:R:94:HIS:CD2	2.99	0.41
2:R:285:LEU:HD23	2:R:288:ILE:CD1	2.50	0.41
3:S:120:CYS:CB	3:S:184:LEU:O	2.64	0.41
3:V:241:PRO:C	3:V:242:HIS:O	2.60	0.41
3:V:283:CYS:HB3	3:V:284:SER:H	1.77	0.41
2:X:10:ILE:O	2:X:82:ARG:HA	2.21	0.41
3:Y:287:THR:CG2	3:Y:289:PRO:CG	2.98	0.41
3:b:310:LEU:HD12	3:b:455:VAL:HG13	2.02	0.41
2:d:193:GLN:CG	2:d:198:VAL:HG21	2.51	0.41
4:g:46:THR:O	4:g:47:GLN:CB	2.69	0.41
4:i:86:GLU:O	4:i:87:TRP:C	2.64	0.41
4:j:22:MET:HE1	4:j:57:GLN:C	2.45	0.41
4:l:66:VAL:HG12	4:l:67:THR:HG22	2.02	0.41
4:m:94:LEU:C	4:m:95:LYS:O	2.59	0.41
4:n:8:ARG:HA	4:n:9:PRO:HA	1.16	0.41
4:p:77:PRO:HD3	4:p:110:SER:HA	2.03	0.41
4:t:12:ILE:O	4:t:13:THR:CB	2.69	0.41
1:G:598:GLU:O	1:G:601:VAL:HG22	2.21	0.40
1:G:751:HIS:CE1	1:G:754:CYS:CA	3.04	0.40
1:G:805:TRP:CD2	1:G:809:HIS:HE1	2.38	0.40
1:G:942:PRO:HB3	1:G:969:HIS:CE1	2.56	0.40
1:G:951:ASN:ND2	1:G:974:PRO:HA	2.36	0.40
1:A:201:MET:HE3	1:A:205:LEU:HD11	2.02	0.40
1:A:458:VAL:HG23	1:A:462:CYS:SG	2.61	0.40
1:A:531:PHE:HE2	1:A:1194:THR:HG22	1.85	0.40
1:A:534:PRO:CB	1:B:1154:GLY:N	2.79	0.40
1:A:765:TYR:CD1	1:A:783:LEU:HB2	2.56	0.40
1:A:829:GLY:HA3	1:A:956:TYR:CZ	2.56	0.40
1:A:1250:PHE:CE1	1:A:1261:TYR:OH	2.74	0.40
1:B:784:LEU:HD11	1:B:902:ALA:HA	2.03	0.40
1:B:811:ILE:O	1:B:815:VAL:HB	2.21	0.40
1:C:321:VAL:C	1:C:323:GLY:H	2.29	0.40
1:C:766:ALA:O	1:C:785:HIS:N	2.51	0.40
1:C:874:THR:HG23	1:C:877:ALA:H	1.86	0.40
1:D:96:GLN:NE2	1:I:12:ARG:O	2.52	0.40
1:D:579:ASN:HA	1:D:1031:MET:CE	2.49	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:829:GLY:HA3	1:D:905:THR:HG21	2.03	0.40
1:D:1081:ALA:HB3	1:D:1092:THR:CG2	2.39	0.40
1:E:163:GLN:CD	1:I:17:MET:HE3	2.47	0.40
1:E:318:THR:O	1:E:323:GLY:N	2.54	0.40
1:E:784:LEU:CD1	1:E:902:ALA:HA	2.51	0.40
1:E:837:ALA:CB	4:k:54:LEU:HD21	2.46	0.40
1:E:1139:LEU:HD12	1:E:1139:LEU:HA	1.82	0.40
1:F:124:ILE:CD1	1:F:1074:PHE:CE2	3.04	0.40
1:F:233:PHE:O	1:F:233:PHE:CD2	2.74	0.40
1:F:415:ARG:O	1:F:1358:PHE:HA	2.22	0.40
1:F:771:VAL:HG23	1:F:772:ALA:H	1.86	0.40
1:H:90:MET:HE1	1:I:58:LEU:HD21	2.03	0.40
1:I:338:ASP:OD1	1:I:339:MET:N	2.54	0.40
1:I:403:VAL:CG1	1:I:1331:ALA:HB3	2.52	0.40
1:I:638:GLU:OE1	1:I:801:ARG:NH2	2.34	0.40
1:I:742:LEU:HD23	1:I:746:ALA:HB2	2.03	0.40
1:I:844:VAL:HG22	1:I:864:PRO:HB3	2.03	0.40
1:J:77:VAL:O	1:J:78:ALA:CB	2.69	0.40
1:J:288:LEU:HD13	1:J:288:LEU:HA	1.77	0.40
1:J:431:GLU:OE1	1:J:431:GLU:CA	2.69	0.40
1:J:437:PRO:O	1:J:437:PRO:CG	2.69	0.40
1:J:485:ASN:O	1:J:486:PRO:C	2.61	0.40
1:J:544:HIS:CD2	1:J:545:PRO:HD2	2.56	0.40
1:J:579:ASN:ND2	1:J:1046:PRO:O	2.39	0.40
1:J:1048:PHE:HE2	1:J:1050:PHE:HE1	1.67	0.40
1:J:1302:THR:O	1:J:1313:ARG:N	2.50	0.40
1:K:69:ARG:HD3	1:K:69:ARG:HA	1.77	0.40
1:K:128:ALA:HA	1:K:1095:GLN:O	2.22	0.40
1:K:487:TYR:HE1	1:K:505:PHE:CZ	2.34	0.40
1:K:1216:GLY:O	1:K:1217:ASP:CB	2.69	0.40
1:L:78:ALA:HB2	1:L:277:VAL:CG2	2.47	0.40
1:L:714:LEU:HD13	1:L:719:GLN:HE22	1.86	0.40
1:L:766:ALA:HB2	1:L:782:ARG:HD3	2.02	0.40
1:M:18:VAL:N	1:M:19:PRO:HD3	2.36	0.40
1:M:815:VAL:HA	1:M:1024:LEU:CD2	2.52	0.40
1:N:405:PRO:O	1:N:440:LEU:HD22	2.21	0.40
1:N:750:ARG:HH11	1:N:750:ARG:HD3	1.69	0.40
1:N:821:SER:C	1:N:823:GLY:N	2.79	0.40
1:O:195:LEU:HD21	1:O:251:LEU:HA	2.02	0.40
1:O:445:LYS:CE	1:O:1179:HIS:O	2.62	0.40
1:O:733:PRO:HG2	1:O:736:VAL:HG22	2.03	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:872:ALA:N	4:t:107:LYS:HE3	2.36	0.40
1:O:1274:PHE:O	1:O:1278:THR:OG1	2.39	0.40
1:P:454:MET:C	1:P:456:ASN:H	2.29	0.40
1:P:1152:VAL:HG13	1:P:1159:PRO:CD	2.46	0.40
1:P:1291:ARG:O	1:P:1292:LEU:C	2.64	0.40
2:Q:116:LEU:HD11	2:Q:141:VAL:HB	2.03	0.40
2:Q:143:LEU:HD13	2:Q:147:LEU:HD23	2.03	0.40
2:R:10:ILE:O	2:R:82:ARG:HA	2.20	0.40
2:T:180:TYR:HD2	2:T:185:ARG:CA	2.25	0.40
2:U:17:SER:C	2:U:19:PRO:CD	2.94	0.40
2:U:268:ARG:O	2:U:269:LEU:HB2	2.21	0.40
3:V:310:LEU:O	3:V:424:GLU:HA	2.20	0.40
2:W:16:ILE:HG21	2:W:133:LEU:HD23	2.02	0.40
3:Y:41:ILE:HD12	3:Y:41:ILE:HA	2.01	0.40
3:Y:335:PRO:C	3:Y:337:ARG:N	2.79	0.40
2:Z:226:ARG:O	2:Z:229:ALA:HB3	2.22	0.40
2:a:193:GLN:CG	2:a:198:VAL:HG21	2.51	0.40
3:b:11:MET:HA	3:b:14:ALA:HB3	2.04	0.40
3:b:268:SER:HA	3:b:457:TRP:CD1	2.56	0.40
3:b:464:ALA:C	3:b:465:CYS:SG	3.04	0.40
3:e:198:TYR:CD1	3:e:198:TYR:O	2.74	0.40
3:e:301:CYS:HB2	3:e:302:LEU:HD23	2.03	0.40
3:e:419:TYR:CG	3:e:420:ALA:N	2.89	0.40
4:i:12:ILE:O	4:i:13:THR:CB	2.69	0.40
4:j:22:MET:C	4:j:25:LEU:HB2	2.44	0.40
4:l:77:PRO:HD3	4:l:110:SER:HA	2.02	0.40
4:m:12:ILE:O	4:m:13:THR:CB	2.69	0.40
4:m:29:THR:O	4:n:98:TYR:O	2.39	0.40
1:G:404:LEU:HB3	1:G:440:LEU:CD2	2.50	0.40
1:G:460:THR:HA	1:G:1129:PHE:CD2	2.56	0.40
1:G:536:ASN:O	1:G:539:LEU:N	2.25	0.40
1:G:830:VAL:CG1	1:G:831:ARG:N	2.84	0.40
1:G:933:LEU:HD21	1:G:958:LEU:CD1	2.52	0.40
1:G:943:GLN:O	1:G:943:GLN:HG3	2.22	0.40
1:G:1050:PHE:CD1	1:G:1187:PHE:HB3	2.56	0.40
1:G:1170:GLN:CG	2:R:180:TYR:HB2	2.49	0.40
1:G:1182:ASP:O	1:G:1310:GLN:CG	2.56	0.40
1:A:112:VAL:HG11	1:B:132:ALA:N	2.19	0.40
1:A:248:LEU:HD21	1:A:293:LEU:HD11	2.03	0.40
1:A:598:GLU:O	1:A:601:VAL:HG22	2.20	0.40
1:A:1114:THR:HG23	1:A:1115:VAL:O	2.21	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1251:SER:H	1:A:1254:ASP:HB3	1.86	0.40
1:B:21:GLY:O	1:B:22:SER:CB	2.69	0.40
1:B:136:ALA:C	1:B:137:THR:HG1	2.28	0.40
1:B:544:HIS:CD2	1:B:547:PHE:HD2	2.39	0.40
1:B:580:GLY:HA2	1:B:592:ARG:NH1	2.32	0.40
1:B:840:GLN:HE22	4:h:58:ALA:CB	2.19	0.40
1:C:976:PHE:HE2	1:C:981:ARG:HA	1.86	0.40
1:D:118:ASN:N	1:D:118:ASN:ND2	2.59	0.40
1:D:264:LEU:C	1:D:266:HIS:H	2.28	0.40
1:D:278:LEU:HG	1:D:375:VAL:HG11	2.03	0.40
1:D:1277:PHE:O	1:D:1278:THR:OG1	2.37	0.40
1:E:1223:ILE:O	1:E:1223:ILE:CG2	2.69	0.40
1:F:736:VAL:HG12	1:F:738:ASP:O	2.21	0.40
1:F:892:LEU:CG	4:l:65:GLY:HA2	2.51	0.40
1:F:1065:PHE:O	1:F:1108:ALA:HA	2.21	0.40
1:H:111:PRO:HA	2:W:38:ARG:HH12	1.85	0.40
1:H:114:GLN:NE2	1:I:134:SER:HB2	2.36	0.40
1:H:532:MET:O	1:H:533:GLN:C	2.61	0.40
1:H:1188:ILE:HD11	1:H:1273:CYS:SG	2.61	0.40
1:I:252:THR:HG22	1:I:373:ARG:HD2	2.02	0.40
1:I:530:GLN:OE1	1:I:585:ALA:HB3	2.22	0.40
1:I:1074:PHE:H	1:I:1074:PHE:HD1	1.61	0.40
1:J:13:TYR:CD1	1:J:49:LEU:HD22	2.56	0.40
1:J:357:ALA:O	1:J:358:PRO:C	2.64	0.40
1:J:626:VAL:HG23	1:J:627:PHE:CD1	2.57	0.40
1:J:729:PRO:HA	1:J:810:LYS:NZ	2.36	0.40
1:J:733:PRO:HB3	1:J:810:LYS:HG3	2.04	0.40
1:J:836:TYR:HA	1:J:839:LEU:HD12	2.04	0.40
1:J:1125:LEU:HB3	1:J:1183:ALA:O	2.21	0.40
1:J:1169:ALA:HB3	1:J:1268:PRO:HD3	2.02	0.40
1:J:1206:ARG:HD2	1:J:1247:SER:CA	2.48	0.40
1:J:1298:SER:O	1:J:1320:LEU:HD22	2.21	0.40
1:K:142:LEU:HD22	1:K:158:GLN:CA	2.49	0.40
1:K:536:ASN:C	1:K:538:ASN:H	2.25	0.40
1:K:596:GLY:HA3	1:K:1023:ALA:HB2	2.03	0.40
1:K:872:ALA:O	1:K:873:ASN:HB2	2.21	0.40
1:L:445:LYS:CG	1:L:1118:PRO:HG2	2.50	0.40
1:L:577:VAL:HG21	1:L:1001:SER:HA	2.03	0.40
1:L:671:VAL:O	1:L:675:VAL:HG23	2.22	0.40
1:L:872:ALA:O	1:L:873:ASN:HB2	2.20	0.40
1:L:914:PRO:HB2	1:L:918:ALA:O	2.21	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:1039:GLN:HG3	1:L:1039:GLN:H	1.65	0.40
1:L:1208:ARG:HD3	1:L:1226:MET:O	2.21	0.40
1:L:1291:ARG:HD3	1:L:1291:ARG:HA	1.82	0.40
1:M:681:ASP:OD1	1:M:681:ASP:N	2.47	0.40
1:M:739:CYS:HB2	1:M:785:HIS:CG	2.56	0.40
1:M:1188:ILE:HG13	1:M:1257:TYR:HE2	1.85	0.40
1:N:368:VAL:HG12	1:N:370:ILE:HG13	2.04	0.40
1:N:1354:ARG:NH2	1:N:1357:HIS:HD2	2.06	0.40
1:O:1049:GLY:O	1:O:1190:THR:N	2.48	0.40
1:P:103:LEU:HD12	1:P:115:PRO:HG3	2.02	0.40
1:P:385:TYR:CZ	1:P:393:PRO:HD3	2.55	0.40
1:P:530:GLN:HA	1:P:536:ASN:ND2	2.37	0.40
1:P:558:LEU:HD12	1:P:999:PHE:CE1	2.56	0.40
1:P:1059:VAL:HG23	1:P:1119:VAL:CG2	2.51	0.40
1:P:1197:ASN:HA	1:P:1200:ARG:HB2	2.01	0.40
2:Q:100:LEU:CG	2:Q:314:VAL:HG21	2.51	0.40
2:R:16:ILE:CA	2:R:132:SER:HB2	2.51	0.40
3:S:433:PRO:CB	3:S:453:GLU:CA	3.00	0.40
2:U:92:LEU:C	2:U:94:HIS:CD2	2.98	0.40
2:U:281:HIS:CE1	3:V:466:ALA:HB2	2.42	0.40
2:X:79:LEU:CB	2:X:80:PRO:HD2	2.44	0.40
2:a:5:CYS:SG	2:a:5:CYS:O	2.79	0.40
2:a:128:VAL:O	2:a:128:VAL:CG2	2.70	0.40
3:b:334:LEU:HD22	3:b:334:LEU:H	1.86	0.40
2:c:106:VAL:HG12	2:c:305:VAL:HG13	1.90	0.40
2:d:99:ASN:CB	2:d:311:MET:HE3	2.31	0.40
4:f:12:ILE:O	4:f:13:THR:CB	2.69	0.40
4:g:66:VAL:HG12	4:g:67:THR:HG22	2.02	0.40
4:h:77:PRO:HD3	4:h:110:SER:HA	2.03	0.40
4:k:86:GLU:O	4:k:87:TRP:C	2.64	0.40
4:m:46:THR:O	4:m:47:GLN:CB	2.69	0.40
4:m:95:LYS:O	4:m:96:ARG:CB	2.69	0.40
4:o:46:THR:O	4:o:47:GLN:CB	2.69	0.40
4:r:18:ARG:O	4:r:19:ALA:CB	2.69	0.40
4:r:46:THR:O	4:r:47:GLN:CB	2.69	0.40
4:s:27:LEU:HD12	4:s:27:LEU:HA	1.92	0.40
1:G:21:GLY:O	1:G:67:LEU:HD23	2.21	0.40
1:G:417:ALA:O	1:G:418:ALA:CB	2.69	0.40
1:G:866:HIS:HB3	1:G:869:ASN:HD22	1.86	0.40
1:G:1070:SER:O	1:G:1102:LEU:HB2	2.20	0.40
1:A:249:VAL:HG12	1:A:370:ILE:HG22	2.03	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:276:GLY:HA2	1:A:1066:SER:O	2.21	0.40
1:A:432:PRO:HA	1:A:435:PHE:CE2	2.56	0.40
1:A:502:GLN:NE2	1:A:970:VAL:HG13	2.36	0.40
1:B:46:GLU:O	1:B:47:ASN:CB	2.69	0.40
1:B:264:LEU:HD23	1:B:264:LEU:HA	1.84	0.40
1:B:581:ASN:ND2	1:B:1003:ARG:H	2.18	0.40
1:B:829:GLY:CA	1:B:905:THR:HG21	2.51	0.40
1:C:311:LEU:CD1	1:C:315:ASN:HB3	2.51	0.40
1:C:397:ALA:HA	1:C:1058:PHE:O	2.21	0.40
1:C:728:ASP:HB2	1:C:1030:LYS:HE2	2.02	0.40
1:C:771:VAL:HB	4:i:55:ARG:HG2	2.04	0.40
1:C:804:ASP:C	1:C:806:THR:N	2.75	0.40
1:C:826:CYS:O	1:C:939:LEU:N	2.30	0.40
1:C:1076:GLY:C	1:C:1095:GLN:HE22	2.28	0.40
1:C:1085:THR:OG1	1:C:1086:GLY:N	2.55	0.40
1:C:1222:VAL:O	1:C:1223:ILE:CB	2.69	0.40
1:C:1344:ARG:HA	1:C:1347:ARG:NE	2.36	0.40
1:C:1354:ARG:NH2	1:C:1357:HIS:HD2	2.11	0.40
1:D:203:ARG:HD3	1:E:1116:ARG:NH2	2.36	0.40
1:D:534:PRO:O	1:D:535:ASP:CB	2.70	0.40
1:D:822:ARG:HD2	1:D:1011:ARG:HA	2.03	0.40
1:D:994:LEU:HA	1:D:994:LEU:HD23	1.86	0.40
1:E:1057:ARG:HG2	1:E:1058:PHE:N	2.36	0.40
1:F:130:ASN:OD1	1:F:1094:THR:HB	2.21	0.40
1:F:381:GLU:O	1:F:386:ALA:N	2.54	0.40
1:F:433:ARG:HH12	1:F:1341:ALA:CB	2.29	0.40
1:F:732:LEU:HD23	1:F:745:HIS:CE1	2.56	0.40
1:H:12:ARG:HD3	1:H:12:ARG:HA	1.88	0.40
1:H:79:CYS:HB3	1:H:184:MET:HE1	2.03	0.40
1:H:402:PHE:HA	1:H:1332:TYR:O	2.22	0.40
1:H:451:ARG:NH2	1:H:453:SER:HB3	2.36	0.40
1:H:961:HIS:NE2	1:H:1002:ILE:O	2.52	0.40
1:H:1301:SER:C	1:H:1303:ALA:H	2.29	0.40
1:I:84:PHE:HD2	1:I:87:LEU:HG	1.87	0.40
1:I:193:PRO:CG	1:I:198:LEU:HD12	2.50	0.40
1:I:394:LEU:HD11	1:I:1064:LEU:HB2	2.03	0.40
1:I:554:ALA:HB3	1:I:568:PRO:HG2	2.03	0.40
1:I:904:ARG:HH12	1:I:906:THR:HG23	1.86	0.40
1:I:982:ASP:OD2	1:J:718:ALA:HB1	2.21	0.40
1:I:1374:LEU:HD12	1:I:1374:LEU:O	2.21	0.40
1:J:279:VAL:O	1:J:1064:LEU:N	2.53	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:302:VAL:N	1:J:303:PRO:HD3	2.22	0.40
1:J:407:GLY:HA3	1:J:454:MET:SD	2.60	0.40
1:J:499:ALA:HB1	1:J:831:ARG:HH11	1.87	0.40
1:J:579:ASN:N	1:J:1031:MET:HB2	2.36	0.40
1:J:591:PHE:O	1:J:595:ARG:HG2	2.22	0.40
1:J:668:TYR:HB2	1:J:812:TYR:CZ	2.57	0.40
1:J:785:HIS:CD2	1:J:800:HIS:CD2	3.09	0.40
1:J:1023:ALA:O	1:J:1026:ALA:HB3	2.21	0.40
1:J:1045:HIS:NE2	1:J:1192:VAL:CG1	2.85	0.40
1:K:192:ALA:HA	1:K:1108:ALA:O	2.21	0.40
1:K:392:TYR:CE2	1:K:394:LEU:HB2	2.56	0.40
1:K:506:LEU:HD21	1:K:989:LEU:HD23	2.02	0.40
1:K:578:VAL:CG1	1:K:725:LEU:HD22	2.52	0.40
1:L:83:LYS:NZ	3:Y:79:THR:HG22	2.36	0.40
1:L:399:ASP:CG	1:L:1321:VAL:HG21	2.47	0.40
1:L:619:GLU:HG2	1:L:824:ARG:HH22	1.85	0.40
1:L:997:ASN:OD1	1:L:997:ASN:C	2.63	0.40
1:L:1075:LEU:HG	1:L:1097:ARG:NH1	2.36	0.40
1:M:87:LEU:CD2	1:M:1076:GLY:CA	2.98	0.40
1:M:193:PRO:HB3	1:M:1294:VAL:HG12	2.03	0.40
1:M:599:LEU:O	1:M:603:ARG:HD2	2.21	0.40
1:M:724:HIS:CD2	1:M:726:MET:HB2	2.57	0.40
1:M:883:ARG:CG	1:N:680:GLY:HA3	2.51	0.40
1:N:363:VAL:HG22	1:N:364:ARG:N	2.35	0.40
1:N:539:LEU:HA	1:N:539:LEU:HD12	1.75	0.40
1:N:1157:LEU:HD22	1:N:1269:VAL:HG21	2.03	0.40
1:N:1165:VAL:HG12	3:V:140:LEU:CG	2.44	0.40
1:O:279:VAL:HG12	1:O:394:LEU:CD1	2.52	0.40
1:O:289:LEU:HA	1:O:293:LEU:O	2.21	0.40
1:O:741:GLY:O	1:O:745:HIS:CD2	2.75	0.40
1:P:484:ALA:O	1:P:485:ASN:CB	2.70	0.40
1:P:1071:GLU:HG3	1:P:1072:ALA:H	1.87	0.40
1:P:1347:ARG:O	1:P:1348:ASP:HB3	2.21	0.40
3:S:161:TRP:CE3	3:S:161:TRP:C	2.99	0.40
2:T:68:ARG:C	2:U:296:ARG:HH12	2.30	0.40
2:U:159:GLY:CA	2:U:193:GLN:HG2	2.51	0.40
2:U:193:GLN:CG	2:U:198:VAL:HG21	2.51	0.40
2:U:295:VAL:HG11	2:U:314:VAL:HG11	2.03	0.40
2:W:100:LEU:CG	2:W:314:VAL:HG21	2.51	0.40
3:Y:85:GLN:HG2	3:Y:85:GLN:H	1.75	0.40
2:a:90:LEU:HD23	2:a:90:LEU:HA	1.85	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:a:93:THR:CB	2:a:316:ARG:NH2	2.84	0.40
2:a:94:HIS:ND1	2:a:98:VAL:CB	2.83	0.40
3:b:278:HIS:N	3:b:279:PRO:CD	2.84	0.40
2:c:100:LEU:CG	2:c:314:VAL:HG21	2.51	0.40
3:e:417:CYS:O	3:e:418:THR:CB	2.69	0.40
4:f:22:MET:HE2	4:f:60:ALA:HB1	1.92	0.40
4:g:41:PRO:HD2	4:g:42:HIS:N	2.37	0.40
4:h:12:ILE:O	4:h:13:THR:CB	2.69	0.40
1:G:487:TYR:OH	1:G:989:LEU:HA	2.20	0.40
1:G:562:GLU:HG2	1:G:563:VAL:CG2	2.41	0.40
1:G:1280:ALA:O	1:G:1284:ALA:HB2	2.20	0.40
1:A:86:GLU:CA	1:A:89:TYR:CD2	3.05	0.40
1:A:280:THR:O	1:A:392:TYR:OH	2.38	0.40
1:A:372:ASP:OD1	1:A:372:ASP:N	2.53	0.40
1:A:436:PRO:HA	1:A:437:PRO:HD3	1.99	0.40
1:A:491:VAL:HA	1:A:992:PRO:HB2	2.03	0.40
1:A:626:VAL:HG12	1:A:878:MET:HG3	2.01	0.40
1:A:1196:ILE:CG2	1:A:1363:ILE:HD11	2.51	0.40
1:A:1354:ARG:NH2	1:A:1357:HIS:HD2	2.15	0.40
1:B:463:HIS:CG	1:B:464:PRO:HD2	2.56	0.40
1:B:541:LEU:HD23	1:B:541:LEU:HA	1.64	0.40
1:B:656:TRP:HZ2	1:B:685:GLU:HG2	1.86	0.40
1:B:890:ALA:O	1:B:893:THR:OG1	2.34	0.40
1:B:1152:VAL:HG13	1:B:1159:PRO:CD	2.50	0.40
1:C:121:THR:CG2	1:C:121:THR:O	2.69	0.40
1:C:145:GLY:O	1:C:146:GLU:CB	2.70	0.40
1:C:184:MET:SD	1:C:1073:TYR:CZ	3.14	0.40
1:C:961:HIS:NE2	1:C:1002:ILE:HB	2.37	0.40
1:D:91:ASN:HB3	1:E:55:ASP:OD1	2.21	0.40
1:D:101:GLN:HB2	1:D:116:VAL:CG2	2.52	0.40
1:D:201:MET:HG3	1:D:205:LEU:CD2	2.51	0.40
1:D:408:LEU:HD12	1:D:1196:ILE:CD1	2.50	0.40
1:D:438:ARG:O	1:D:453:SER:HA	2.22	0.40
1:D:871:VAL:HG12	1:D:872:ALA:H	1.86	0.40
1:E:347:ASN:OD1	1:F:163:GLN:O	2.39	0.40
1:F:12:ARG:HA	1:F:12:ARG:HD3	1.82	0.40
1:F:959:PRO:HB2	1:F:990:VAL:HG22	2.04	0.40
1:F:1054:ARG:HH12	1:F:1123:GLY:N	2.19	0.40
1:H:481:VAL:HG22	1:H:482:GLU:H	1.81	0.40
1:H:629:LEU:HB3	1:H:839:LEU:HD21	2.02	0.40
1:H:835:VAL:HG22	1:H:954:TYR:HD1	1.85	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:840:GLN:CB	4:m:61:LEU:HD12	2.51	0.40
1:H:865:LEU:HD11	1:H:891:MET:HE1	2.03	0.40
1:H:1120:THR:CG2	1:H:1120:THR:O	2.70	0.40
1:H:1210:ALA:HB3	1:H:1329:GLN:HE21	1.84	0.40
1:H:1221:ASP:O	1:H:1225:LEU:CB	2.69	0.40
1:I:596:GLY:HA3	1:I:1023:ALA:HB2	2.03	0.40
1:I:1340:PRO:HB2	1:I:1344:ARG:HH12	1.86	0.40
1:J:399:ASP:OD2	1:J:1321:VAL:HG11	2.21	0.40
1:J:469:ILE:O	1:J:472:ALA:N	2.54	0.40
1:J:616:GLY:O	1:J:620:ASP:N	2.54	0.40
1:J:843:VAL:H	1:J:876:ASN:ND2	2.19	0.40
1:J:1270:LEU:HB2	1:J:1311:PHE:O	2.22	0.40
1:K:118:ASN:HB2	1:K:120:MET:HE2	2.03	0.40
1:K:275:ASP:OD1	1:K:275:ASP:N	2.52	0.40
1:K:671:VAL:HG13	1:K:690:TYR:HD1	1.86	0.40
1:K:883:ARG:NE	1:L:681:ASP:HB3	2.34	0.40
1:K:944:HIS:CD2	1:K:945:LEU:HD12	2.56	0.40
1:K:949:ILE:HG22	1:K:950:GLN:O	2.21	0.40
1:L:527:THR:O	1:L:528:ALA:CB	2.68	0.40
1:L:593:ASP:OD2	1:L:1013:SER:HB2	2.22	0.40
1:L:599:LEU:O	1:L:603:ARG:HD2	2.22	0.40
1:L:654:SER:OG	1:L:884:VAL:HA	2.22	0.40
1:M:384:ILE:HD11	1:M:385:TYR:CE2	2.56	0.40
1:M:917:GLY:O	1:M:918:ALA:CB	2.69	0.40
1:M:1221:ASP:O	1:N:1175:ALA:HB1	2.20	0.40
1:N:299:GLU:HB2	1:N:364:ARG:CZ	2.52	0.40
1:N:303:PRO:HG2	1:N:363:VAL:HG11	2.04	0.40
1:N:468:ASN:C	1:N:470:ASP:N	2.79	0.40
1:N:556:VAL:HG21	1:N:565:PRO:CD	2.45	0.40
1:N:754:CYS:SG	1:N:908:LEU:HD11	2.61	0.40
1:N:1364:TYR:CD2	1:N:1365:ASP:N	2.90	0.40
1:O:105:ALA:HB1	1:P:129:LEU:HB3	2.04	0.40
1:O:200:PRO:HA	1:O:203:ARG:HH21	1.87	0.40
1:O:268:ASP:C	1:O:269:THR:HG23	2.47	0.40
1:O:296:GLU:O	1:O:296:GLU:CG	2.69	0.40
1:O:413:MET:SD	1:P:433:ARG:NH2	2.94	0.40
1:O:517:ARG:NH1	1:P:712:PRO:HD3	2.36	0.40
1:O:610:THR:HG21	1:O:692:ASP:OD2	2.22	0.40
1:O:646:ARG:NH2	4:s:78:MET:CB	2.85	0.40
1:O:865:LEU:CD1	1:O:891:MET:HE1	2.51	0.40
1:O:883:ARG:HD3	1:P:680:GLY:CA	2.50	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:1286:HIS:HD2	1:O:1288:CYS:SG	2.44	0.40
1:P:458:VAL:HG22	1:P:1151:VAL:HG22	2.04	0.40
1:P:558:LEU:HD23	1:P:558:LEU:HA	1.80	0.40
3:S:11:MET:HA	3:S:14:ALA:HB3	2.03	0.40
2:U:61:LEU:HD21	2:U:155:LEU:CB	2.52	0.40
3:V:11:MET:HA	3:V:14:ALA:HB3	2.03	0.40
2:W:51:PHE:HE1	2:W:70:ARG:CZ	2.35	0.40
2:X:295:VAL:HG11	2:X:314:VAL:HG11	2.02	0.40
3:Y:11:MET:HA	3:Y:14:ALA:HB3	2.03	0.40
2:Z:116:LEU:HD11	2:Z:141:VAL:HB	2.03	0.40
2:c:51:PHE:HE1	2:c:70:ARG:CZ	2.35	0.40
2:c:94:HIS:HA	2:c:315:ILE:HD12	2.02	0.40
2:d:176:LEU:HD23	2:d:176:LEU:HA	1.78	0.40
3:e:335:PRO:C	3:e:337:ARG:N	2.79	0.40
4:i:41:PRO:HD2	4:i:42:HIS:N	2.37	0.40
4:o:93:GLY:C	4:o:95:LYS:N	2.74	0.40
4:p:12:ILE:O	4:p:13:THR:CB	2.69	0.40
4:p:46:THR:O	4:p:47:GLN:CB	2.69	0.40
1:G:459:GLY:HA2	1:G:1151:VAL:HG11	2.03	0.40
1:G:804:ASP:O	1:G:808:HIS:ND1	2.34	0.40
1:G:1013:SER:HG	1:G:1020:LEU:HD22	1.85	0.40
1:G:1200:ARG:HH11	1:G:1355:GLU:CG	2.34	0.40
1:A:1102:LEU:O	1:A:1102:LEU:CG	2.69	0.40
1:A:1291:ARG:O	1:A:1294:VAL:HG22	2.21	0.40
1:B:272:ARG:HA	1:B:273:PRO:HD3	1.85	0.40
1:B:599:LEU:O	1:B:603:ARG:NH1	2.54	0.40
1:B:611:ILE:HG23	1:B:820:PHE:HE1	1.86	0.40
1:C:698:GLU:HG2	1:C:808:HIS:NE2	2.36	0.40
1:C:1222:VAL:O	1:C:1223:ILE:CG1	2.70	0.40
1:D:461:VAL:CG2	1:D:1050:PHE:CZ	2.98	0.40
1:D:847:ILE:HD12	1:D:847:ILE:HA	1.95	0.40
1:D:1354:ARG:NH2	1:D:1357:HIS:HD2	2.16	0.40
1:E:829:GLY:O	1:E:955:PHE:HA	2.21	0.40
1:E:1354:ARG:NH2	1:E:1357:HIS:HD2	2.15	0.40
1:F:438:ARG:O	1:F:453:SER:HA	2.21	0.40
1:F:544:HIS:CE1	1:F:1252:TYR:CD1	3.09	0.40
1:F:1291:ARG:O	1:F:1292:LEU:C	2.63	0.40
1:H:189:LEU:HD22	1:H:1064:LEU:CD2	2.52	0.40
1:H:582:LEU:HD12	1:H:592:ARG:NH2	2.31	0.40
1:H:655:TYR:CE2	1:H:661:CYS:HB2	2.57	0.40
1:H:865:LEU:CD1	1:H:891:MET:HE1	2.52	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:960:VAL:HG23	1:H:961:HIS:N	2.36	0.40
1:I:418:ALA:O	1:J:422:ASP:HB2	2.21	0.40
1:I:533:GLN:N	1:I:534:PRO:HD3	2.35	0.40
1:I:641:PHE:O	1:I:645:ALA:N	2.55	0.40
1:I:732:LEU:HB2	1:I:733:PRO:HD2	2.04	0.40
1:I:813:TYR:O	1:I:964:PHE:HZ	2.04	0.40
1:J:50:TYR:HA	1:L:160:ARG:HD2	2.03	0.40
1:J:302:VAL:HG13	1:J:360:THR:HB	2.03	0.40
1:J:462:CYS:C	1:J:463:HIS:O	2.54	0.40
1:J:490:TYR:HE1	1:J:556:VAL:HG11	1.87	0.40
1:J:755:ARG:O	1:J:755:ARG:CG	2.70	0.40
1:J:1061:GLU:HB2	1:J:1114:THR:OG1	2.21	0.40
1:J:1062:ASN:HA	1:J:1112:THR:HA	2.03	0.40
1:J:1160:ALA:O	1:J:1161:GLN:CG	2.70	0.40
1:J:1228:ASP:O	1:J:1228:ASP:CG	2.64	0.40
1:K:589:VAL:HG13	1:K:1009:HIS:HD2	1.85	0.40
1:K:639:HIS:HD2	1:K:900:ASN:ND2	2.18	0.40
1:K:819:ALA:O	1:K:1017:GLU:CD	2.57	0.40
1:K:839:LEU:HD23	1:K:839:LEU:HA	1.94	0.40
1:K:903:GLU:HG2	1:K:904:ARG:H	1.86	0.40
1:K:1055:GLN:OE1	1:K:1270:LEU:HD21	2.21	0.40
1:K:1138:LEU:HD11	1:K:1147:LEU:CD2	2.52	0.40
1:L:280:THR:HG22	1:L:1063:VAL:HG12	2.03	0.40
1:L:321:VAL:HG23	1:L:322:MET:HG3	2.03	0.40
1:L:481:VAL:CG2	1:L:482:GLU:H	2.33	0.40
1:L:805:TRP:CE2	1:L:809:HIS:HE1	2.40	0.40
1:L:824:ARG:O	1:L:824:ARG:HG3	2.21	0.40
1:L:1202:PRO:HB3	1:L:1332:TYR:HD1	1.79	0.40
1:M:280:THR:HG22	1:M:281:THR:N	2.37	0.40
1:M:619:GLU:HG2	1:M:824:ARG:NH2	2.37	0.40
1:N:12:ARG:HA	1:N:12:ARG:HD3	1.86	0.40
1:N:960:VAL:HG23	1:N:961:HIS:N	2.36	0.40
1:N:1020:LEU:O	1:N:1024:LEU:HB2	2.21	0.40
1:N:1317:CYS:O	1:N:1318:ARG:HD2	2.21	0.40
1:O:102:PRO:HB3	1:P:65:LEU:HD11	2.02	0.40
1:O:544:HIS:CE1	1:O:1252:TYR:CG	3.10	0.40
1:O:579:ASN:HA	1:O:1031:MET:HE3	2.03	0.40
1:O:752:ARG:NE	1:O:752:ARG:HA	2.35	0.40
1:O:841:ASN:HA	4:s:57:GLN:HE21	1.87	0.40
1:O:1119:VAL:O	1:O:1119:VAL:CG1	2.69	0.40
1:O:1216:GLY:O	1:O:1217:ASP:CB	2.68	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:597:LEU:O	1:P:601:VAL:HG13	2.22	0.40
1:P:743:MET:HE2	1:P:785:HIS:CD2	2.57	0.40
1:P:1080:VAL:HG22	1:P:1093:LEU:HD23	2.02	0.40
1:P:1157:LEU:O	1:P:1158:GLY:C	2.63	0.40
2:R:13:PRO:O	2:R:14:SER:CB	2.69	0.40
2:R:32:VAL:O	2:R:73:ALA:N	2.51	0.40
2:T:143:LEU:HD13	2:T:147:LEU:HD23	2.03	0.40
2:U:12:ILE:HD11	2:U:83:ILE:HG13	2.03	0.40
2:U:120:VAL:O	2:U:120:VAL:CG2	2.70	0.40
3:V:447:VAL:O	3:V:449:VAL:N	2.55	0.40
3:Y:247:PHE:CZ	3:Y:457:TRP:CZ3	3.10	0.40
3:e:165:LEU:O	3:e:167:ALA:N	2.52	0.40
4:f:21:GLY:O	4:f:25:LEU:HD12	2.20	0.40
4:f:46:THR:O	4:f:47:GLN:CB	2.69	0.40
4:g:93:GLY:C	4:g:95:LYS:N	2.74	0.40
4:g:95:LYS:O	4:g:96:ARG:CB	2.69	0.40
4:h:8:ARG:HA	4:h:9:PRO:HA	1.16	0.40
4:m:22:MET:HE1	4:m:57:GLN:C	2.45	0.40
4:p:41:PRO:HD2	4:p:42:HIS:N	2.37	0.40
4:p:95:LYS:O	4:p:96:ARG:CB	2.69	0.40
4:r:12:ILE:O	4:r:13:THR:CB	2.69	0.40
4:r:106:PRO:O	4:r:107:LYS:CB	2.70	0.40

There are no symmetry-related clashes.

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
1	A	1363/1374 (99%)	1209 (89%)	140 (10%)	14 (1%)	12 41
1	B	1344/1374 (98%)	1194 (89%)	129 (10%)	21 (2%)	7 30
1	C	1356/1374 (99%)	1212 (89%)	126 (9%)	18 (1%)	9 35

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	D	1356/1374 (99%)	1212 (89%)	124 (9%)	20 (2%)	8	32
1	E	1356/1374 (99%)	1201 (89%)	143 (10%)	12 (1%)	14	44
1	F	1356/1374 (99%)	1212 (89%)	125 (9%)	19 (1%)	9	34
1	G	1363/1374 (99%)	1193 (88%)	148 (11%)	22 (2%)	7	30
1	H	1356/1374 (99%)	1220 (90%)	123 (9%)	13 (1%)	12	41
1	I	1355/1374 (99%)	1228 (91%)	112 (8%)	15 (1%)	11	39
1	J	1356/1374 (99%)	1206 (89%)	132 (10%)	18 (1%)	9	35
1	K	1356/1374 (99%)	1235 (91%)	107 (8%)	14 (1%)	12	41
1	L	1356/1374 (99%)	1226 (90%)	114 (8%)	16 (1%)	10	37
1	M	1361/1374 (99%)	1228 (90%)	112 (8%)	21 (2%)	8	32
1	N	1356/1374 (99%)	1218 (90%)	118 (9%)	20 (2%)	8	32
1	O	1356/1374 (99%)	1216 (90%)	121 (9%)	19 (1%)	9	34
1	P	1356/1374 (99%)	1227 (90%)	112 (8%)	17 (1%)	9	35
2	Q	291/318 (92%)	254 (87%)	34 (12%)	3 (1%)	12	41
2	R	301/318 (95%)	264 (88%)	32 (11%)	5 (2%)	7	30
2	T	291/318 (92%)	252 (87%)	34 (12%)	5 (2%)	7	30
2	U	301/318 (95%)	262 (87%)	35 (12%)	4 (1%)	9	35
2	W	291/318 (92%)	254 (87%)	34 (12%)	3 (1%)	12	41
2	X	302/318 (95%)	260 (86%)	39 (13%)	3 (1%)	12	41
2	Z	291/318 (92%)	252 (87%)	33 (11%)	6 (2%)	5	25
2	a	301/318 (95%)	273 (91%)	25 (8%)	3 (1%)	12	41
2	c	291/318 (92%)	254 (87%)	34 (12%)	3 (1%)	12	41
2	d	302/318 (95%)	263 (87%)	34 (11%)	5 (2%)	7	30
3	S	313/466 (67%)	268 (86%)	36 (12%)	9 (3%)	3	19
3	V	332/466 (71%)	278 (84%)	46 (14%)	8 (2%)	4	22
3	Y	333/466 (72%)	276 (83%)	43 (13%)	14 (4%)	2	13
3	b	327/466 (70%)	273 (84%)	37 (11%)	17 (5%)	1	10
3	e	327/466 (70%)	265 (81%)	47 (14%)	15 (5%)	2	12
4	f	103/112 (92%)	70 (68%)	15 (15%)	18 (18%)	0	0
4	g	103/112 (92%)	71 (69%)	17 (16%)	15 (15%)	0	0
4	h	103/112 (92%)	73 (71%)	17 (16%)	13 (13%)	0	1

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
4	i	103/112 (92%)	73 (71%)	17 (16%)	13 (13%)	0	1
4	j	103/112 (92%)	71 (69%)	17 (16%)	15 (15%)	0	0
4	k	103/112 (92%)	71 (69%)	16 (16%)	16 (16%)	0	0
4	l	103/112 (92%)	70 (68%)	19 (18%)	14 (14%)	0	1
4	m	103/112 (92%)	71 (69%)	18 (18%)	14 (14%)	0	1
4	n	103/112 (92%)	71 (69%)	19 (18%)	13 (13%)	0	1
4	o	103/112 (92%)	70 (68%)	17 (16%)	16 (16%)	0	0
4	p	103/112 (92%)	74 (72%)	16 (16%)	13 (13%)	0	1
4	q	103/112 (92%)	71 (69%)	17 (16%)	15 (15%)	0	0
4	r	103/112 (92%)	70 (68%)	16 (16%)	17 (16%)	0	0
4	s	103/112 (92%)	77 (75%)	13 (13%)	13 (13%)	0	1
4	t	103/112 (92%)	75 (73%)	12 (12%)	16 (16%)	0	0
All	All	27841/29174 (95%)	24463 (88%)	2775 (10%)	603 (2%)	7	24

All (603) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	G	137	THR
1	G	295	VAL
1	G	1223	ILE
1	G	1277	PHE
1	G	1278	THR
1	A	196	ALA
1	A	209	ARG
1	A	327	ARG
1	A	395	VAL
1	A	946	ASP
1	A	1223	ILE
1	B	144	THR
1	B	146	GLU
1	B	446	ASP
1	B	920	THR
1	B	946	ASP
1	B	1219	GLU
1	B	1223	ILE
1	B	1278	THR
1	B	1348	ASP
1	C	358	PRO

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	C	1201	ARG
1	C	1223	ILE
1	D	270	ARG
1	D	419	HIS
1	D	446	ASP
1	D	758	ALA
1	D	1085	THR
1	D	1170	GLN
1	D	1223	ILE
1	D	1278	THR
1	E	259	VAL
1	E	753	ASP
1	E	1085	THR
1	E	1119	VAL
1	E	1223	ILE
1	F	78	ALA
1	F	259	VAL
1	F	372	ASP
1	F	946	ASP
1	F	1119	VAL
1	F	1219	GLU
1	F	1223	ILE
1	F	1252	TYR
1	F	1266	ALA
1	F	1277	PHE
1	H	282	ALA
1	H	357	ALA
1	H	1115	VAL
1	H	1252	TYR
1	I	268	ASP
1	I	314	ALA
1	I	1223	ILE
1	I	1278	THR
1	I	1348	ASP
1	J	92	GLU
1	J	358	PRO
1	J	820	PHE
1	J	987	VAL
1	J	1012	GLU
1	J	1202	PRO
1	J	1223	ILE
1	J	1229	HIS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	K	192	ALA
1	K	948	THR
1	K	1119	VAL
1	K	1223	ILE
1	K	1278	THR
1	L	112	VAL
1	L	269	THR
1	L	321	VAL
1	L	758	ALA
1	L	1223	ILE
1	L	1278	THR
1	L	1348	ASP
1	M	203	ARG
1	M	321	VAL
1	M	357	ALA
1	M	558	LEU
1	M	820	PHE
1	M	1119	VAL
1	M	1161	GLN
1	M	1162	PRO
1	M	1223	ILE
1	M	1278	THR
1	M	1327	LEU
1	N	298	THR
1	N	534	PRO
1	N	822	ARG
1	N	918	ALA
1	N	1119	VAL
1	N	1161	GLN
1	N	1199	PHE
1	N	1223	ILE
1	N	1278	THR
1	O	418	ALA
1	O	758	ALA
1	O	1114	THR
1	O	1119	VAL
1	O	1223	ILE
1	O	1278	THR
1	O	1348	ASP
1	P	192	ALA
1	P	485	ASN
1	P	1108	ALA

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	P	1119	VAL
1	P	1219	GLU
1	P	1278	THR
2	Q	104	SER
2	R	14	SER
2	R	16	ILE
2	R	97	THR
3	S	140	LEU
3	S	243	GLU
3	S	279	PRO
3	S	285	ALA
2	T	104	SER
2	T	184	ALA
2	U	97	THR
3	V	243	GLU
3	V	279	PRO
2	W	104	SER
2	X	97	THR
3	Y	38	ARG
3	Y	41	ILE
3	Y	140	LEU
3	Y	141	PRO
3	Y	243	GLU
3	Y	279	PRO
2	Z	104	SER
2	Z	184	ALA
3	b	243	GLU
3	b	279	PRO
3	b	285	ALA
3	b	419	TYR
2	c	104	SER
2	d	97	THR
2	d	124	GLN
3	e	5	PRO
3	e	7	PRO
3	e	140	LEU
3	e	141	PRO
3	e	243	GLU
3	e	279	PRO
3	e	281	ARG
3	e	418	THR
4	f	3	ALA

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
4	f	19	ALA
4	f	47	GLN
4	f	78	MET
4	f	90	PRO
4	f	100	PRO
4	f	108	THR
4	f	109	PRO
4	g	3	ALA
4	g	17	VAL
4	g	47	GLN
4	g	78	MET
4	g	90	PRO
4	g	100	PRO
4	h	3	ALA
4	h	16	ASN
4	h	47	GLN
4	h	78	MET
4	h	90	PRO
4	h	100	PRO
4	i	3	ALA
4	i	47	GLN
4	i	78	MET
4	i	90	PRO
4	i	100	PRO
4	j	3	ALA
4	j	47	GLN
4	j	78	MET
4	j	90	PRO
4	j	102	VAL
4	k	3	ALA
4	k	47	GLN
4	k	78	MET
4	k	90	PRO
4	k	100	PRO
4	l	3	ALA
4	l	17	VAL
4	l	47	GLN
4	l	78	MET
4	l	90	PRO
4	l	100	PRO
4	m	3	ALA
4	m	17	VAL

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
4	m	47	GLN
4	m	78	MET
4	m	90	PRO
4	m	100	PRO
4	n	3	ALA
4	n	47	GLN
4	n	78	MET
4	n	90	PRO
4	n	100	PRO
4	o	3	ALA
4	o	47	GLN
4	o	78	MET
4	o	90	PRO
4	o	100	PRO
4	p	3	ALA
4	p	47	GLN
4	p	78	MET
4	p	90	PRO
4	p	100	PRO
4	q	3	ALA
4	q	17	VAL
4	q	47	GLN
4	q	78	MET
4	q	90	PRO
4	q	100	PRO
4	q	107	LYS
4	r	3	ALA
4	r	17	VAL
4	r	47	GLN
4	r	78	MET
4	r	90	PRO
4	r	100	PRO
4	r	105	ASP
4	s	3	ALA
4	s	16	ASN
4	s	20	LEU
4	s	47	GLN
4	s	78	MET
4	s	90	PRO
4	s	100	PRO
4	t	3	ALA
4	t	47	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
4	t	72	THR
4	t	76	GLN
4	t	78	MET
4	t	100	PRO
1	G	92	GLU
1	G	521	VAL
1	G	525	GLN
1	G	1199	PHE
1	A	528	ALA
1	B	41	ARG
1	B	242	GLU
1	B	523	GLU
1	B	1199	PHE
1	C	528	ALA
1	C	803	ALA
1	C	918	ALA
1	C	1119	VAL
1	C	1230	GLY
1	D	539	LEU
1	D	753	ASP
1	D	1109	VAL
1	E	1109	VAL
1	F	522	ALA
1	F	753	ASP
1	F	822	ARG
1	H	537	ALA
1	H	945	LEU
1	H	1219	GLU
1	I	17	MET
1	I	270	ARG
1	I	395	VAL
1	I	467	MET
1	I	1107	THR
1	J	537	ALA
1	J	1272	PRO
1	K	757	ASP
1	K	761	HIS
1	K	1197	ASN
1	L	88	ALA
1	L	820	PHE
1	L	1114	THR
1	M	207	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	N	418	ALA
1	N	522	ALA
1	N	540	ALA
1	N	957	VAL
1	N	1162	PRO
1	O	295	VAL
1	O	298	THR
1	O	1161	GLN
1	O	1202	PRO
1	P	14	ALA
1	P	297	ASP
1	P	529	GLU
2	R	237	VAL
2	R	316	ARG
3	S	121	GLN
3	S	178	GLY
3	S	336	PRO
3	S	418	THR
2	U	237	VAL
2	U	316	ARG
3	V	121	GLN
3	V	178	GLY
3	V	336	PRO
3	V	418	THR
2	X	237	VAL
2	X	316	ARG
3	Y	121	GLN
3	Y	144	ALA
3	Y	154	THR
3	Y	336	PRO
2	a	171	GLY
2	a	237	VAL
2	a	316	ARG
3	b	108	TYR
3	b	121	GLN
3	b	178	GLY
3	b	200	ALA
3	b	281	ARG
3	b	289	PRO
3	b	305	PRO
3	b	418	THR
2	d	237	VAL

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	d	316	ARG
3	e	178	GLY
3	e	336	PRO
3	e	419	TYR
4	f	11	THR
4	f	13	THR
4	f	16	ASN
4	f	17	VAL
4	f	72	THR
4	f	107	LYS
4	g	11	THR
4	g	13	THR
4	g	16	ASN
4	g	72	THR
4	h	11	THR
4	h	13	THR
4	h	72	THR
4	i	11	THR
4	i	13	THR
4	i	16	ASN
4	i	72	THR
4	j	11	THR
4	j	13	THR
4	j	16	ASN
4	j	72	THR
4	k	11	THR
4	k	13	THR
4	k	16	ASN
4	k	72	THR
4	l	11	THR
4	l	13	THR
4	l	72	THR
4	m	11	THR
4	m	13	THR
4	m	16	ASN
4	m	72	THR
4	n	11	THR
4	n	13	THR
4	n	16	ASN
4	n	72	THR
4	o	11	THR
4	o	13	THR

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
4	o	16	ASN
4	o	22	MET
4	o	72	THR
4	p	13	THR
4	p	16	ASN
4	p	72	THR
4	q	11	THR
4	q	13	THR
4	q	16	ASN
4	q	72	THR
4	r	11	THR
4	r	13	THR
4	r	16	ASN
4	r	72	THR
4	s	72	THR
4	t	13	THR
4	t	16	ASN
4	t	103	VAL
4	t	107	LYS
1	G	154	SER
1	A	753	ASP
1	B	47	ASN
1	C	291	SER
1	C	959	PRO
1	D	147	ALA
1	D	1348	ASP
1	F	1348	ASP
1	H	1348	ASP
1	K	44	SER
1	K	357	ALA
1	K	1114	THR
1	L	300	ALA
1	M	30	ALA
1	M	386	ALA
1	O	192	ALA
1	O	534	PRO
1	O	1203	CYS
1	P	44	SER
1	P	1114	THR
2	Q	165	PRO
2	T	165	PRO
2	W	165	PRO

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	Z	165	PRO
2	c	165	PRO
2	d	125	ALA
4	g	22	MET
4	j	95	LYS
4	j	105	ASP
4	k	22	MET
4	o	105	ASP
4	s	89	ARG
4	t	95	LYS
1	G	46	GLU
1	G	331	ASP
1	G	430	PRO
1	G	470	ASP
1	A	143	LEU
1	A	324	LYS
1	A	1122	MET
1	A	1299	ALA
1	B	1317	CYS
1	C	45	ASP
1	C	386	ALA
1	C	1084	GLU
1	C	1114	THR
1	D	386	ALA
1	D	408	LEU
1	D	1108	ALA
1	D	1119	VAL
1	D	1219	GLU
1	E	446	ASP
1	E	1108	ALA
1	E	1280	ALA
1	F	207	ASN
1	H	522	ALA
1	H	940	MET
1	I	383	ARG
1	I	420	ALA
1	J	923	THR
1	K	386	ALA
1	L	386	ALA
1	M	787	THR
1	N	321	VAL
1	N	1164	PRO

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	N	1219	GLU
1	O	386	ALA
1	P	1068	ARG
1	P	1153	ALA
2	Q	192	VAL
2	T	182	ASN
2	T	192	VAL
2	W	192	VAL
2	Z	192	VAL
3	b	38	ARG
2	c	192	VAL
3	e	136	HIS
4	p	105	ASP
1	G	193	PRO
1	G	425	PRO
1	G	959	PRO
1	A	110	HIS
1	B	138	GLU
1	B	1161	GLN
1	C	304	VAL
1	D	266	HIS
1	E	386	ALA
1	F	386	ALA
1	F	792	ALA
1	H	386	ALA
1	I	293	LEU
1	I	304	VAL
1	I	1202	PRO
1	J	184	MET
1	J	799	PRO
1	K	486	PRO
1	K	1153	ALA
1	M	1202	PRO
1	M	1203	CYS
1	N	953	GLU
1	O	34	ARG
1	P	29	VAL
1	P	296	GLU
1	P	302	VAL
1	P	1279	ALA
3	Y	281	ARG
3	Y	434	ARG

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	Z	259	PRO
3	e	39	PRO
4	f	54	LEU
4	g	54	LEU
4	h	54	LEU
4	i	54	LEU
4	j	54	LEU
4	k	54	LEU
4	k	105	ASP
4	l	54	LEU
4	m	54	LEU
4	n	54	LEU
4	o	54	LEU
4	o	95	LYS
4	p	54	LEU
4	q	54	LEU
4	r	54	LEU
4	r	89	ARG
4	r	109	PRO
4	s	54	LEU
4	t	54	LEU
1	G	45	ASP
1	G	1351	ALA
1	B	534	PRO
1	B	1202	PRO
1	C	759	GLY
1	E	8	PRO
1	E	300	ALA
1	J	112	VAL
1	J	303	PRO
1	J	988	PRO
1	M	17	MET
1	M	273	PRO
1	N	658	ASN
1	O	486	PRO
1	O	997	ASN
3	S	281	ARG
2	U	18	ARG
3	V	281	ARG
2	Z	105	PRO
4	f	4	PRO
4	f	41	PRO

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
4	g	4	PRO
4	g	41	PRO
4	h	4	PRO
4	h	41	PRO
4	i	4	PRO
4	i	41	PRO
4	j	4	PRO
4	j	41	PRO
4	k	4	PRO
4	k	41	PRO
4	l	4	PRO
4	l	22	MET
4	l	41	PRO
4	m	4	PRO
4	m	41	PRO
4	n	4	PRO
4	n	41	PRO
4	o	4	PRO
4	o	41	PRO
4	p	4	PRO
4	p	41	PRO
4	q	4	PRO
4	q	41	PRO
4	r	4	PRO
4	r	41	PRO
4	s	4	PRO
4	s	41	PRO
4	t	4	PRO
4	t	41	PRO
1	G	426	ALA
1	G	781	GLY
1	B	1126	PRO
1	C	259	VAL
1	F	326	VAL
1	J	1161	GLN
1	L	303	PRO
1	L	1119	VAL
3	V	5	PRO
3	Y	5	PRO
3	b	5	PRO
4	t	17	VAL
1	D	259	VAL

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	M	9	PRO
3	Y	40	PRO
1	B	405	PRO
1	H	304	VAL
1	H	1202	PRO
1	M	304	VAL
1	O	1162	PRO
3	b	39	PRO
1	G	407	GLY
1	A	1202	PRO
1	C	1202	PRO
1	J	427	PRO
1	L	279	VAL
1	N	469	ILE
3	b	336	PRO
3	b	432	SER
3	e	286	VAL
4	k	17	VAL
4	s	17	VAL
4	t	105	ASP
1	F	1165	VAL
1	L	304	VAL
4	f	9	PRO
4	g	9	PRO
4	h	9	PRO
4	i	9	PRO
4	j	9	PRO
4	k	9	PRO
4	l	9	PRO
4	m	9	PRO
4	n	9	PRO
4	q	9	PRO
4	o	9	PRO
4	p	9	PRO
4	r	9	PRO
3	e	40	PRO

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 PDB entries followed by that with respect to all EM entries.

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	1003/1080 (93%)	970 (97%)	33 (3%)	33	63
1	B	1009/1080 (93%)	978 (97%)	31 (3%)	35	64
1	C	1020/1080 (94%)	997 (98%)	23 (2%)	44	70
1	D	1023/1080 (95%)	995 (97%)	28 (3%)	39	67
1	E	1023/1080 (95%)	1000 (98%)	23 (2%)	45	71
1	F	1024/1080 (95%)	994 (97%)	30 (3%)	37	66
1	G	992/1080 (92%)	951 (96%)	41 (4%)	27	59
1	H	1027/1080 (95%)	998 (97%)	29 (3%)	38	66
1	I	1027/1080 (95%)	990 (96%)	37 (4%)	31	62
1	J	1016/1080 (94%)	986 (97%)	30 (3%)	36	65
1	K	1028/1080 (95%)	990 (96%)	38 (4%)	30	61
1	L	1027/1080 (95%)	991 (96%)	36 (4%)	32	62
1	M	1030/1080 (95%)	994 (96%)	36 (4%)	32	62
1	N	1029/1080 (95%)	1006 (98%)	23 (2%)	45	71
1	O	1027/1080 (95%)	996 (97%)	31 (3%)	36	65
1	P	1029/1080 (95%)	992 (96%)	37 (4%)	31	62
2	Q	195/264 (74%)	189 (97%)	6 (3%)	35	64
2	R	214/264 (81%)	199 (93%)	15 (7%)	14	41
2	T	195/264 (74%)	188 (96%)	7 (4%)	31	62
2	U	215/264 (81%)	201 (94%)	14 (6%)	15	44
2	W	195/264 (74%)	188 (96%)	7 (4%)	31	62
2	X	216/264 (82%)	204 (94%)	12 (6%)	19	49
2	Z	192/264 (73%)	178 (93%)	14 (7%)	13	40
2	a	213/264 (81%)	189 (89%)	24 (11%)	5	23
2	c	195/264 (74%)	188 (96%)	7 (4%)	31	62
2	d	216/264 (82%)	203 (94%)	13 (6%)	17	47
3	S	198/366 (54%)	186 (94%)	12 (6%)	17	46
3	V	201/366 (55%)	184 (92%)	17 (8%)	10	35
3	Y	205/366 (56%)	183 (89%)	22 (11%)	6	25
3	b	198/366 (54%)	162 (82%)	36 (18%)	2	8

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
3	e	204/366 (56%)	188 (92%)	16 (8%)	11 38
4	f	35/88 (40%)	27 (77%)	8 (23%)	1 4
4	g	35/88 (40%)	26 (74%)	9 (26%)	0 2
4	h	35/88 (40%)	25 (71%)	10 (29%)	0 1
4	i	35/88 (40%)	27 (77%)	8 (23%)	1 4
4	j	36/88 (41%)	28 (78%)	8 (22%)	1 4
4	k	35/88 (40%)	27 (77%)	8 (23%)	1 4
4	l	35/88 (40%)	27 (77%)	8 (23%)	1 4
4	m	35/88 (40%)	27 (77%)	8 (23%)	1 4
4	n	34/88 (39%)	25 (74%)	9 (26%)	0 2
4	o	35/88 (40%)	25 (71%)	10 (29%)	0 1
4	p	35/88 (40%)	26 (74%)	9 (26%)	0 2
4	q	35/88 (40%)	27 (77%)	8 (23%)	1 4
4	r	36/88 (41%)	28 (78%)	8 (22%)	1 4
4	s	36/88 (41%)	26 (72%)	10 (28%)	0 1
4	t	35/88 (40%)	27 (77%)	8 (23%)	1 4
All	All	19913/23070 (86%)	19056 (96%)	857 (4%)	27 57

All (857) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	G	58	LEU
1	G	75	LEU
1	G	95	VAL
1	G	129	LEU
1	G	144	THR
1	G	155	LEU
1	G	159	LEU
1	G	223	LEU
1	G	251	LEU
1	G	278	LEU
1	G	289	LEU
1	G	295	VAL
1	G	298	THR
1	G	301	ASP
1	G	311	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	G	322	MET
1	G	324	LYS
1	G	329	LEU
1	G	330	ASP
1	G	429	HIS
1	G	453	SER
1	G	469	ILE
1	G	524	CYS
1	G	832	PHE
1	G	957	VAL
1	G	958	LEU
1	G	1067	GLU
1	G	1102	LEU
1	G	1114	THR
1	G	1119	VAL
1	G	1120	THR
1	G	1147	LEU
1	G	1194	THR
1	G	1195	ASP
1	G	1198	TYR
1	G	1200	ARG
1	G	1202	PRO
1	G	1298	SER
1	G	1317	CYS
1	G	1318	ARG
1	G	1348	ASP
1	A	24	LEU
1	A	29	VAL
1	A	31	SER
1	A	35	LEU
1	A	77	VAL
1	A	106	ARG
1	A	114	GLN
1	A	142	LEU
1	A	155	LEU
1	A	195	LEU
1	A	278	LEU
1	A	295	VAL
1	A	311	LEU
1	A	344	LEU
1	A	374	LEU
1	A	384	ILE

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	A	469	ILE
1	A	520	TRP
1	A	527	THR
1	A	563	VAL
1	A	582	LEU
1	A	756	ILE
1	A	818	PRO
1	A	1102	LEU
1	A	1114	THR
1	A	1139	LEU
1	A	1225	LEU
1	A	1264	ASN
1	A	1289	LEU
1	A	1292	LEU
1	A	1321	VAL
1	A	1334	ILE
1	A	1347	ARG
1	B	24	LEU
1	B	47	ASN
1	B	49	LEU
1	B	50	TYR
1	B	65	LEU
1	B	71	LEU
1	B	124	ILE
1	B	129	LEU
1	B	135	LEU
1	B	144	THR
1	B	155	LEU
1	B	236	LYS
1	B	264	LEU
1	B	269	THR
1	B	373	ARG
1	B	380	LEU
1	B	384	ILE
1	B	520	TRP
1	B	532	MET
1	B	821	SER
1	B	1192	VAL
1	B	1194	THR
1	B	1198	TYR
1	B	1202	PRO
1	B	1222	VAL

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	B	1223	ILE
1	B	1225	LEU
1	B	1236	ARG
1	B	1277	PHE
1	B	1289	LEU
1	B	1334	ILE
1	C	17	MET
1	C	49	LEU
1	C	90	MET
1	C	142	LEU
1	C	289	LEU
1	C	302	VAL
1	C	337	LEU
1	C	520	TRP
1	C	755	ARG
1	C	756	ILE
1	C	786	ASN
1	C	787	THR
1	C	983	LEU
1	C	1036	LEU
1	C	1102	LEU
1	C	1104	VAL
1	C	1122	MET
1	C	1139	LEU
1	C	1202	PRO
1	C	1225	LEU
1	C	1318	ARG
1	C	1319	GLU
1	C	1334	ILE
1	D	35	LEU
1	D	55	ASP
1	D	75	LEU
1	D	118	ASN
1	D	123	VAL
1	D	159	LEU
1	D	205	LEU
1	D	253	THR
1	D	289	LEU
1	D	384	ILE
1	D	408	LEU
1	D	467	MET
1	D	520	TRP

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	D	787	THR
1	D	821	SER
1	D	1102	LEU
1	D	1125	LEU
1	D	1139	LEU
1	D	1157	LEU
1	D	1174	ARG
1	D	1221	ASP
1	D	1228	ASP
1	D	1241	THR
1	D	1278	THR
1	D	1319	GLU
1	D	1330	GLU
1	D	1332	TYR
1	D	1334	ILE
1	E	24	LEU
1	E	27	ILE
1	E	205	LEU
1	E	264	LEU
1	E	266	HIS
1	E	302	VAL
1	E	384	ILE
1	E	429	HIS
1	E	520	TRP
1	E	524	CYS
1	E	527	THR
1	E	530	GLN
1	E	818	PRO
1	E	1104	VAL
1	E	1139	LEU
1	E	1196	ILE
1	E	1197	ASN
1	E	1251	SER
1	E	1254	ASP
1	E	1256	LEU
1	E	1300	VAL
1	E	1319	GLU
1	E	1334	ILE
1	F	29	VAL
1	F	31	SER
1	F	73	LEU
1	F	77	VAL

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	F	80	VAL
1	F	86	GLU
1	F	87	LEU
1	F	104	ILE
1	F	144	THR
1	F	189	LEU
1	F	205	LEU
1	F	297	ASP
1	F	329	LEU
1	F	348	ARG
1	F	384	ILE
1	F	486	PRO
1	F	520	TRP
1	F	521	VAL
1	F	595	ARG
1	F	752	ARG
1	F	786	ASN
1	F	787	THR
1	F	788	GLN
1	F	1085	THR
1	F	1192	VAL
1	F	1202	PRO
1	F	1218	LYS
1	F	1278	THR
1	F	1300	VAL
1	F	1334	ILE
1	H	24	LEU
1	H	87	LEU
1	H	124	ILE
1	H	248	LEU
1	H	264	LEU
1	H	269	THR
1	H	277	VAL
1	H	279	VAL
1	H	280	THR
1	H	291	SER
1	H	297	ASP
1	H	304	VAL
1	H	310	VAL
1	H	384	ILE
1	H	415	ARG
1	H	467	MET

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	H	485	ASN
1	H	582	LEU
1	H	731	LEU
1	H	756	ILE
1	H	943	GLN
1	H	1115	VAL
1	H	1147	LEU
1	H	1197	ASN
1	H	1202	PRO
1	H	1225	LEU
1	H	1241	THR
1	H	1254	ASP
1	H	1334	ILE
1	I	12	ARG
1	I	35	LEU
1	I	44	SER
1	I	94	ARG
1	I	114	GLN
1	I	122	LYS
1	I	123	VAL
1	I	134	SER
1	I	143	LEU
1	I	257	PRO
1	I	266	HIS
1	I	288	LEU
1	I	305	THR
1	I	320	LEU
1	I	322	MET
1	I	337	LEU
1	I	349	GLU
1	I	384	ILE
1	I	394	LEU
1	I	429	HIS
1	I	520	TRP
1	I	543	LEU
1	I	563	VAL
1	I	582	LEU
1	I	1071	GLU
1	I	1078	LEU
1	I	1104	VAL
1	I	1194	THR
1	I	1196	ILE

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	I	1202	PRO
1	I	1223	ILE
1	I	1225	LEU
1	I	1267	SER
1	I	1278	THR
1	I	1290	GLU
1	I	1321	VAL
1	I	1334	ILE
1	J	65	LEU
1	J	71	LEU
1	J	73	LEU
1	J	80	VAL
1	J	92	GLU
1	J	230	THR
1	J	231	SER
1	J	264	LEU
1	J	289	LEU
1	J	400	LEU
1	J	402	PHE
1	J	427	PRO
1	J	558	LEU
1	J	755	ARG
1	J	796	ASP
1	J	847	ILE
1	J	922	SER
1	J	945	LEU
1	J	1092	THR
1	J	1104	VAL
1	J	1120	THR
1	J	1161	GLN
1	J	1192	VAL
1	J	1202	PRO
1	J	1221	ASP
1	J	1263	LEU
1	J	1319	GLU
1	J	1334	ILE
1	J	1347	ARG
1	J	1365	ASP
1	K	99	VAL
1	K	115	PRO
1	K	118	ASN
1	K	120	MET

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	K	191	LYS
1	K	223	LEU
1	K	289	LEU
1	K	305	THR
1	K	356	SER
1	K	380	LEU
1	K	394	LEU
1	K	467	MET
1	K	469	ILE
1	K	556	VAL
1	K	752	ARG
1	K	753	ASP
1	K	756	ILE
1	K	784	LEU
1	K	922	SER
1	K	1036	LEU
1	K	1062	ASN
1	K	1070	SER
1	K	1104	VAL
1	K	1114	THR
1	K	1118	PRO
1	K	1147	LEU
1	K	1191	PRO
1	K	1192	VAL
1	K	1194	THR
1	K	1218	LYS
1	K	1222	VAL
1	K	1263	LEU
1	K	1277	PHE
1	K	1282	ILE
1	K	1298	SER
1	K	1319	GLU
1	K	1334	ILE
1	K	1352	HIS
1	L	31	SER
1	L	57	LEU
1	L	58	LEU
1	L	71	LEU
1	L	83	LYS
1	L	114	GLN
1	L	116	VAL
1	L	159	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	L	248	LEU
1	L	288	LEU
1	L	289	LEU
1	L	295	VAL
1	L	304	VAL
1	L	308	GLU
1	L	377	LEU
1	L	378	GLU
1	L	380	LEU
1	L	384	ILE
1	L	394	LEU
1	L	395	VAL
1	L	465	SER
1	L	470	ASP
1	L	473	VAL
1	L	477	ASN
1	L	524	CYS
1	L	563	VAL
1	L	752	ARG
1	L	908	LEU
1	L	909	LEU
1	L	1104	VAL
1	L	1161	GLN
1	L	1264	ASN
1	L	1289	LEU
1	L	1301	SER
1	L	1302	THR
1	L	1334	ILE
1	M	17	MET
1	M	137	THR
1	M	142	LEU
1	M	143	LEU
1	M	219	LEU
1	M	264	LEU
1	M	266	HIS
1	M	288	LEU
1	M	299	GLU
1	M	303	PRO
1	M	304	VAL
1	M	305	THR
1	M	380	LEU
1	M	381	GLU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	M	384	ILE
1	M	429	HIS
1	M	469	ILE
1	M	521	VAL
1	M	523	GLU
1	M	524	CYS
1	M	556	VAL
1	M	557	GLU
1	M	558	LEU
1	M	756	ILE
1	M	780	ASP
1	M	784	LEU
1	M	943	GLN
1	M	1107	THR
1	M	1195	ASP
1	M	1204	ASN
1	M	1223	ILE
1	M	1225	LEU
1	M	1264	ASN
1	M	1321	VAL
1	M	1334	ILE
1	M	1347	ARG
1	N	135	LEU
1	N	159	LEU
1	N	256	GLN
1	N	305	THR
1	N	321	VAL
1	N	322	MET
1	N	384	ILE
1	N	422	ASP
1	N	439	GLN
1	N	453	SER
1	N	538	ASN
1	N	787	THR
1	N	957	VAL
1	N	1115	VAL
1	N	1139	LEU
1	N	1168	CYS
1	N	1192	VAL
1	N	1195	ASP
1	N	1204	ASN
1	N	1278	THR

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	N	1320	LEU
1	N	1321	VAL
1	N	1334	ILE
1	O	27	ILE
1	O	35	LEU
1	O	99	VAL
1	O	143	LEU
1	O	195	LEU
1	O	296	GLU
1	O	298	THR
1	O	299	GLU
1	O	375	VAL
1	O	384	ILE
1	O	427	PRO
1	O	429	HIS
1	O	453	SER
1	O	465	SER
1	O	469	ILE
1	O	534	PRO
1	O	555	ASP
1	O	558	LEU
1	O	579	ASN
1	O	754	CYS
1	O	756	ILE
1	O	1067	GLU
1	O	1120	THR
1	O	1125	LEU
1	O	1139	LEU
1	O	1206	ARG
1	O	1222	VAL
1	O	1282	ILE
1	O	1300	VAL
1	O	1334	ILE
1	O	1350	GLU
1	P	24	LEU
1	P	43	ARG
1	P	58	LEU
1	P	118	ASN
1	P	120	MET
1	P	148	LEU
1	P	191	LYS
1	P	264	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	P	266	HIS
1	P	278	LEU
1	P	291	SER
1	P	359	GLN
1	P	375	VAL
1	P	377	LEU
1	P	384	ILE
1	P	432	PRO
1	P	436	PRO
1	P	485	ASN
1	P	486	PRO
1	P	520	TRP
1	P	530	GLN
1	P	582	LEU
1	P	788	GLN
1	P	919	ASN
1	P	957	VAL
1	P	1104	VAL
1	P	1114	THR
1	P	1116	ARG
1	P	1120	THR
1	P	1139	LEU
1	P	1200	ARG
1	P	1201	ARG
1	P	1225	LEU
1	P	1263	LEU
1	P	1264	ASN
1	P	1281	ASP
1	P	1321	VAL
2	Q	32	VAL
2	Q	124	GLN
2	Q	126	THR
2	Q	180	TYR
2	Q	188	LEU
2	Q	227	LEU
2	R	12	ILE
2	R	16	ILE
2	R	34	LEU
2	R	36	THR
2	R	41	LEU
2	R	61	LEU
2	R	163	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	R	164	ASN
2	R	193	GLN
2	R	246	VAL
2	R	269	LEU
2	R	291	LEU
2	R	295	VAL
2	R	314	VAL
2	R	315	ILE
3	S	132	LEU
3	S	134	LEU
3	S	237	THR
3	S	254	TRP
3	S	275	HIS
3	S	300	LEU
3	S	302	LEU
3	S	350	LEU
3	S	351	ARG
3	S	428	MET
3	S	447	VAL
3	S	449	VAL
2	T	32	VAL
2	T	124	GLN
2	T	126	THR
2	T	178	VAL
2	T	186	LEU
2	T	188	LEU
2	T	227	LEU
2	U	14	SER
2	U	17	SER
2	U	34	LEU
2	U	36	THR
2	U	38	ARG
2	U	41	LEU
2	U	61	LEU
2	U	193	GLN
2	U	246	VAL
2	U	269	LEU
2	U	291	LEU
2	U	295	VAL
2	U	314	VAL
2	U	315	ILE
3	V	41	ILE

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
3	V	79	THR
3	V	82	ASP
3	V	85	GLN
3	V	132	LEU
3	V	134	LEU
3	V	139	ASP
3	V	143	LEU
3	V	165	LEU
3	V	198	TYR
3	V	237	THR
3	V	254	TRP
3	V	302	LEU
3	V	350	LEU
3	V	428	MET
3	V	445	VAL
3	V	449	VAL
2	W	32	VAL
2	W	124	GLN
2	W	126	THR
2	W	178	VAL
2	W	186	LEU
2	W	188	LEU
2	W	227	LEU
2	X	34	LEU
2	X	36	THR
2	X	41	LEU
2	X	61	LEU
2	X	163	LEU
2	X	193	GLN
2	X	246	VAL
2	X	269	LEU
2	X	291	LEU
2	X	295	VAL
2	X	314	VAL
2	X	315	ILE
3	Y	82	ASP
3	Y	83	THR
3	Y	85	GLN
3	Y	88	ASP
3	Y	132	LEU
3	Y	143	LEU
3	Y	164	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
3	Y	165	LEU
3	Y	166	GLU
3	Y	198	TYR
3	Y	237	THR
3	Y	254	TRP
3	Y	302	LEU
3	Y	350	LEU
3	Y	351	ARG
3	Y	352	ILE
3	Y	353	THR
3	Y	419	TYR
3	Y	428	MET
3	Y	445	VAL
3	Y	447	VAL
3	Y	449	VAL
2	Z	32	VAL
2	Z	124	GLN
2	Z	126	THR
2	Z	160	ILE
2	Z	180	TYR
2	Z	181	TYR
2	Z	186	LEU
2	Z	188	LEU
2	Z	218	THR
2	Z	219	LEU
2	Z	221	LEU
2	Z	222	THR
2	Z	227	LEU
2	Z	315	ILE
2	a	16	ILE
2	a	34	LEU
2	a	43	LEU
2	a	61	LEU
2	a	75	ILE
2	a	78	VAL
2	a	82	ARG
2	a	98	VAL
2	a	132	SER
2	a	133	LEU
2	a	135	LEU
2	a	138	ARG
2	a	160	ILE

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	a	161	ARG
2	a	163	LEU
2	a	164	ASN
2	a	170	PRO
2	a	193	GLN
2	a	246	VAL
2	a	269	LEU
2	a	291	LEU
2	a	295	VAL
2	a	314	VAL
2	a	315	ILE
3	b	79	THR
3	b	112	ARG
3	b	132	LEU
3	b	134	LEU
3	b	137	PRO
3	b	140	LEU
3	b	164	LEU
3	b	165	LEU
3	b	185	VAL
3	b	186	SER
3	b	188	ASN
3	b	198	TYR
3	b	210	HIS
3	b	213	THR
3	b	215	TYR
3	b	237	THR
3	b	254	TRP
3	b	288	ILE
3	b	295	ASP
3	b	296	LEU
3	b	297	ASP
3	b	299	GLU
3	b	301	CYS
3	b	302	LEU
3	b	315	THR
3	b	322	GLN
3	b	324	LEU
3	b	330	VAL
3	b	334	LEU
3	b	346	LEU
3	b	353	THR

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
3	b	417	CYS
3	b	419	TYR
3	b	436	LEU
3	b	447	VAL
3	b	452	LEU
2	c	32	VAL
2	c	124	GLN
2	c	126	THR
2	c	179	LEU
2	c	182	ASN
2	c	188	LEU
2	c	227	LEU
2	d	16	ILE
2	d	34	LEU
2	d	36	THR
2	d	41	LEU
2	d	61	LEU
2	d	164	ASN
2	d	193	GLN
2	d	246	VAL
2	d	269	LEU
2	d	291	LEU
2	d	295	VAL
2	d	314	VAL
2	d	315	ILE
3	e	36	VAL
3	e	83	THR
3	e	117	THR
3	e	119	LEU
3	e	132	LEU
3	e	134	LEU
3	e	140	LEU
3	e	198	TYR
3	e	237	THR
3	e	254	TRP
3	e	302	LEU
3	e	352	ILE
3	e	428	MET
3	e	436	LEU
3	e	447	VAL
3	e	449	VAL
4	f	27	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
4	f	29	THR
4	f	36	MET
4	f	37	ASP
4	f	41	PRO
4	f	46	THR
4	f	64	LEU
4	f	67	THR
4	g	27	LEU
4	g	29	THR
4	g	36	MET
4	g	37	ASP
4	g	41	PRO
4	g	46	THR
4	g	64	LEU
4	g	67	THR
4	g	97	THR
4	h	20	LEU
4	h	27	LEU
4	h	29	THR
4	h	36	MET
4	h	37	ASP
4	h	41	PRO
4	h	46	THR
4	h	64	LEU
4	h	67	THR
4	h	97	THR
4	i	27	LEU
4	i	29	THR
4	i	36	MET
4	i	37	ASP
4	i	41	PRO
4	i	46	THR
4	i	64	LEU
4	i	67	THR
4	j	27	LEU
4	j	29	THR
4	j	36	MET
4	j	37	ASP
4	j	41	PRO
4	j	46	THR
4	j	64	LEU
4	j	67	THR

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
4	k	27	LEU
4	k	29	THR
4	k	36	MET
4	k	37	ASP
4	k	41	PRO
4	k	46	THR
4	k	64	LEU
4	k	67	THR
4	l	27	LEU
4	l	29	THR
4	l	36	MET
4	l	37	ASP
4	l	41	PRO
4	l	46	THR
4	l	64	LEU
4	l	67	THR
4	m	27	LEU
4	m	29	THR
4	m	36	MET
4	m	37	ASP
4	m	41	PRO
4	m	46	THR
4	m	64	LEU
4	m	67	THR
4	n	20	LEU
4	n	27	LEU
4	n	29	THR
4	n	36	MET
4	n	37	ASP
4	n	41	PRO
4	n	46	THR
4	n	64	LEU
4	n	67	THR
4	o	20	LEU
4	o	27	LEU
4	o	29	THR
4	o	36	MET
4	o	37	ASP
4	o	41	PRO
4	o	46	THR
4	o	64	LEU
4	o	67	THR

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
4	o	97	THR
4	p	10	SER
4	p	27	LEU
4	p	29	THR
4	p	36	MET
4	p	37	ASP
4	p	41	PRO
4	p	46	THR
4	p	64	LEU
4	p	67	THR
4	q	27	LEU
4	q	29	THR
4	q	36	MET
4	q	37	ASP
4	q	41	PRO
4	q	46	THR
4	q	64	LEU
4	q	67	THR
4	r	27	LEU
4	r	29	THR
4	r	36	MET
4	r	37	ASP
4	r	41	PRO
4	r	46	THR
4	r	64	LEU
4	r	67	THR
4	s	27	LEU
4	s	29	THR
4	s	36	MET
4	s	37	ASP
4	s	41	PRO
4	s	46	THR
4	s	64	LEU
4	s	67	THR
4	s	96	ARG
4	s	107	LYS
4	t	27	LEU
4	t	29	THR
4	t	36	MET
4	t	37	ASP
4	t	41	PRO
4	t	46	THR

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
4	t	64	LEU
4	t	67	THR

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (666) such sidechains are listed below:

Mol	Chain	Res	Type
1	G	100	HIS
1	G	183	GLN
1	G	359	GLN
1	G	419	HIS
1	G	478	HIS
1	G	544	HIS
1	G	639	HIS
1	G	696	HIS
1	G	724	HIS
1	G	751	HIS
1	G	866	HIS
1	G	869	ASN
1	G	934	HIS
1	G	943	GLN
1	G	972	ASN
1	G	1004	GLN
1	G	1008	GLN
1	G	1055	GLN
1	G	1083	HIS
1	G	1090	ASN
1	G	1124	ASN
1	G	1161	GLN
1	G	1179	HIS
1	G	1243	ASN
1	G	1310	GLN
1	G	1329	GLN
1	A	100	HIS
1	A	164	GLN
1	A	207	ASN
1	A	266	HIS
1	A	335	HIS
1	A	359	GLN
1	A	507	ASN
1	A	511	GLN
1	A	536	ASN
1	A	581	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	A	604	HIS
1	A	639	HIS
1	A	658	ASN
1	A	696	HIS
1	A	723	ASN
1	A	724	HIS
1	A	745	HIS
1	A	785	HIS
1	A	800	HIS
1	A	809	HIS
1	A	866	HIS
1	A	925	ASN
1	A	1008	GLN
1	A	1018	ASN
1	A	1039	GLN
1	A	1062	ASN
1	A	1079	GLN
1	A	1090	ASN
1	A	1127	GLN
1	A	1179	HIS
1	A	1286	HIS
1	A	1352	HIS
1	A	1357	HIS
1	B	110	HIS
1	B	164	GLN
1	B	168	ASN
1	B	183	GLN
1	B	266	HIS
1	B	335	HIS
1	B	419	HIS
1	B	456	ASN
1	B	485	ASN
1	B	511	GLN
1	B	536	ASN
1	B	544	HIS
1	B	581	ASN
1	B	658	ASN
1	B	696	HIS
1	B	724	HIS
1	B	786	ASN
1	B	880	HIS
1	B	925	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	B	969	HIS
1	B	1008	GLN
1	B	1018	ASN
1	B	1179	HIS
1	B	1204	ASN
1	B	1229	HIS
1	B	1264	ASN
1	B	1286	HIS
1	B	1357	HIS
1	C	32	HIS
1	C	101	GLN
1	C	114	GLN
1	C	168	ASN
1	C	183	GLN
1	C	202	GLN
1	C	256	GLN
1	C	312	ASN
1	C	315	ASN
1	C	335	HIS
1	C	347	ASN
1	C	419	HIS
1	C	448	GLN
1	C	503	GLN
1	C	507	ASN
1	C	511	GLN
1	C	536	ASN
1	C	544	HIS
1	C	581	ASN
1	C	639	HIS
1	C	658	ASN
1	C	696	HIS
1	C	719	GLN
1	C	723	ASN
1	C	724	HIS
1	C	745	HIS
1	C	785	HIS
1	C	808	HIS
1	C	866	HIS
1	C	900	ASN
1	C	919	ASN
1	C	925	ASN
1	C	947	HIS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	C	986	HIS
1	C	1004	GLN
1	C	1018	ASN
1	C	1045	HIS
1	C	1055	GLN
1	C	1077	GLN
1	C	1083	HIS
1	C	1286	HIS
1	C	1310	GLN
1	C	1329	GLN
1	C	1352	HIS
1	C	1357	HIS
1	D	32	HIS
1	D	110	HIS
1	D	118	ASN
1	D	164	GLN
1	D	168	ASN
1	D	266	HIS
1	D	315	ASN
1	D	335	HIS
1	D	347	ASN
1	D	429	HIS
1	D	544	HIS
1	D	581	ASN
1	D	639	HIS
1	D	658	ASN
1	D	696	HIS
1	D	717	GLN
1	D	723	ASN
1	D	724	HIS
1	D	745	HIS
1	D	751	HIS
1	D	786	ASN
1	D	866	HIS
1	D	900	ASN
1	D	925	ASN
1	D	934	HIS
1	D	947	HIS
1	D	986	HIS
1	D	1004	GLN
1	D	1008	GLN
1	D	1018	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	D	1039	GLN
1	D	1055	GLN
1	D	1083	HIS
1	D	1117	ASN
1	D	1127	GLN
1	D	1286	HIS
1	D	1310	GLN
1	D	1329	GLN
1	D	1357	HIS
1	E	47	ASN
1	E	118	ASN
1	E	156	HIS
1	E	163	GLN
1	E	335	HIS
1	E	419	HIS
1	E	448	GLN
1	E	544	HIS
1	E	658	ASN
1	E	696	HIS
1	E	717	GLN
1	E	724	HIS
1	E	866	HIS
1	E	880	HIS
1	E	925	ASN
1	E	947	HIS
1	E	1008	GLN
1	E	1018	ASN
1	E	1039	GLN
1	E	1055	GLN
1	E	1083	HIS
1	E	1095	GLN
1	E	1197	ASN
1	E	1243	ASN
1	E	1264	ASN
1	E	1329	GLN
1	E	1357	HIS
1	F	118	ASN
1	F	164	GLN
1	F	168	ASN
1	F	202	GLN
1	F	266	HIS
1	F	419	HIS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	F	485	ASN
1	F	503	GLN
1	F	507	ASN
1	F	511	GLN
1	F	536	ASN
1	F	544	HIS
1	F	581	ASN
1	F	639	HIS
1	F	658	ASN
1	F	696	HIS
1	F	724	HIS
1	F	785	HIS
1	F	866	HIS
1	F	880	HIS
1	F	925	ASN
1	F	969	HIS
1	F	1008	GLN
1	F	1018	ASN
1	F	1039	GLN
1	F	1055	GLN
1	F	1090	ASN
1	F	1095	GLN
1	F	1124	ASN
1	F	1127	GLN
1	F	1128	ASN
1	F	1197	ASN
1	F	1286	HIS
1	F	1329	GLN
1	F	1357	HIS
1	H	32	HIS
1	H	156	HIS
1	H	168	ASN
1	H	183	GLN
1	H	202	GLN
1	H	256	GLN
1	H	335	HIS
1	H	439	GLN
1	H	456	ASN
1	H	485	ASN
1	H	536	ASN
1	H	544	HIS
1	H	581	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	H	639	HIS
1	H	658	ASN
1	H	696	HIS
1	H	717	GLN
1	H	724	HIS
1	H	745	HIS
1	H	863	HIS
1	H	866	HIS
1	H	919	ASN
1	H	925	ASN
1	H	986	HIS
1	H	997	ASN
1	H	1004	GLN
1	H	1008	GLN
1	H	1018	ASN
1	H	1039	GLN
1	H	1055	GLN
1	H	1079	GLN
1	H	1090	ASN
1	H	1095	GLN
1	H	1179	HIS
1	H	1197	ASN
1	H	1264	ASN
1	H	1286	HIS
1	H	1357	HIS
1	I	32	HIS
1	I	96	GLN
1	I	118	ASN
1	I	164	GLN
1	I	168	ASN
1	I	335	HIS
1	I	340	GLN
1	I	347	ASN
1	I	410	ASN
1	I	419	HIS
1	I	429	HIS
1	I	448	GLN
1	I	456	ASN
1	I	478	HIS
1	I	511	GLN
1	I	525	GLN
1	I	544	HIS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	I	658	ASN
1	I	696	HIS
1	I	723	ASN
1	I	724	HIS
1	I	745	HIS
1	I	866	HIS
1	I	880	HIS
1	I	925	ASN
1	I	944	HIS
1	I	972	ASN
1	I	1008	GLN
1	I	1018	ASN
1	I	1055	GLN
1	I	1095	GLN
1	I	1248	GLN
1	I	1310	GLN
1	J	32	HIS
1	J	163	GLN
1	J	168	ASN
1	J	202	GLN
1	J	266	HIS
1	J	335	HIS
1	J	359	GLN
1	J	485	ASN
1	J	507	ASN
1	J	544	HIS
1	J	581	ASN
1	J	658	ASN
1	J	717	GLN
1	J	724	HIS
1	J	800	HIS
1	J	880	HIS
1	J	944	HIS
1	J	951	ASN
1	J	969	HIS
1	J	1083	HIS
1	J	1095	GLN
1	J	1286	HIS
1	J	1329	GLN
1	K	32	HIS
1	K	118	ASN
1	K	168	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	K	183	GLN
1	K	256	GLN
1	K	266	HIS
1	K	335	HIS
1	K	359	GLN
1	K	389	ASN
1	K	439	GLN
1	K	536	ASN
1	K	544	HIS
1	K	581	ASN
1	K	604	HIS
1	K	639	HIS
1	K	658	ASN
1	K	696	HIS
1	K	724	HIS
1	K	745	HIS
1	K	770	ASN
1	K	785	HIS
1	K	800	HIS
1	K	919	ASN
1	K	925	ASN
1	K	934	HIS
1	K	947	HIS
1	K	969	HIS
1	K	1008	GLN
1	K	1009	HIS
1	K	1018	ASN
1	K	1039	GLN
1	K	1045	HIS
1	K	1124	ASN
1	K	1155	ASN
1	K	1357	HIS
1	L	47	ASN
1	L	96	GLN
1	L	156	HIS
1	L	164	GLN
1	L	168	ASN
1	L	170	GLN
1	L	202	GLN
1	L	266	HIS
1	L	389	ASN
1	L	419	HIS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	L	429	HIS
1	L	439	GLN
1	L	448	GLN
1	L	477	ASN
1	L	511	GLN
1	L	536	ASN
1	L	544	HIS
1	L	581	ASN
1	L	639	HIS
1	L	658	ASN
1	L	696	HIS
1	L	719	GLN
1	L	724	HIS
1	L	745	HIS
1	L	785	HIS
1	L	786	ASN
1	L	880	HIS
1	L	919	ASN
1	L	925	ASN
1	L	943	GLN
1	L	1008	GLN
1	L	1018	ASN
1	L	1045	HIS
1	L	1055	GLN
1	L	1079	GLN
1	L	1170	GLN
1	L	1204	ASN
1	L	1352	HIS
1	L	1357	HIS
1	M	47	ASN
1	M	130	ASN
1	M	156	HIS
1	M	168	ASN
1	M	170	GLN
1	M	183	GLN
1	M	340	GLN
1	M	429	HIS
1	M	448	GLN
1	M	536	ASN
1	M	544	HIS
1	M	581	ASN
1	M	604	HIS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	M	639	HIS
1	M	658	ASN
1	M	696	HIS
1	M	719	GLN
1	M	724	HIS
1	M	745	HIS
1	M	866	HIS
1	M	880	HIS
1	M	900	ASN
1	M	925	ASN
1	M	943	GLN
1	M	944	HIS
1	M	969	HIS
1	M	972	ASN
1	M	1008	GLN
1	M	1018	ASN
1	M	1039	GLN
1	M	1045	HIS
1	M	1055	GLN
1	M	1079	GLN
1	M	1095	GLN
1	M	1155	ASN
1	M	1161	GLN
1	M	1204	ASN
1	M	1264	ASN
1	M	1286	HIS
1	M	1310	GLN
1	M	1357	HIS
1	N	32	HIS
1	N	118	ASN
1	N	164	GLN
1	N	168	ASN
1	N	207	ASN
1	N	256	GLN
1	N	290	GLN
1	N	347	ASN
1	N	389	ASN
1	N	419	HIS
1	N	456	ASN
1	N	581	ASN
1	N	639	HIS
1	N	658	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	N	696	HIS
1	N	717	GLN
1	N	724	HIS
1	N	880	HIS
1	N	900	ASN
1	N	925	ASN
1	N	947	HIS
1	N	969	HIS
1	N	1008	GLN
1	N	1018	ASN
1	N	1077	GLN
1	N	1090	ASN
1	N	1286	HIS
1	N	1357	HIS
1	O	32	HIS
1	O	47	ASN
1	O	91	ASN
1	O	110	HIS
1	O	117	HIS
1	O	156	HIS
1	O	164	GLN
1	O	168	ASN
1	O	170	GLN
1	O	202	GLN
1	O	335	HIS
1	O	347	ASN
1	O	419	HIS
1	O	429	HIS
1	O	439	GLN
1	O	468	ASN
1	O	511	GLN
1	O	530	GLN
1	O	536	ASN
1	O	544	HIS
1	O	581	ASN
1	O	639	HIS
1	O	658	ASN
1	O	696	HIS
1	O	719	GLN
1	O	724	HIS
1	O	800	HIS
1	O	866	HIS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	O	925	ASN
1	O	934	HIS
1	O	947	HIS
1	O	969	HIS
1	O	1008	GLN
1	O	1018	ASN
1	O	1062	ASN
1	O	1090	ASN
1	O	1124	ASN
1	O	1127	GLN
1	O	1155	ASN
1	O	1197	ASN
1	O	1286	HIS
1	O	1357	HIS
1	P	32	HIS
1	P	110	HIS
1	P	118	ASN
1	P	130	ASN
1	P	163	GLN
1	P	183	GLN
1	P	419	HIS
1	P	429	HIS
1	P	439	GLN
1	P	544	HIS
1	P	581	ASN
1	P	639	HIS
1	P	696	HIS
1	P	719	GLN
1	P	724	HIS
1	P	745	HIS
1	P	785	HIS
1	P	800	HIS
1	P	841	ASN
1	P	863	HIS
1	P	866	HIS
1	P	880	HIS
1	P	919	ASN
1	P	925	ASN
1	P	943	GLN
1	P	1018	ASN
1	P	1039	GLN
1	P	1045	HIS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	P	1083	HIS
1	P	1095	GLN
1	P	1117	ASN
1	P	1127	GLN
1	P	1264	ASN
1	P	1286	HIS
1	P	1329	GLN
1	P	1357	HIS
2	Q	48	HIS
2	Q	124	GLN
2	Q	284	GLN
2	R	48	HIS
2	R	94	HIS
2	R	110	ASN
2	R	193	GLN
2	R	238	ASN
2	R	281	HIS
3	S	109	HIS
3	S	210	HIS
3	S	214	ASN
3	S	238	HIS
3	S	242	HIS
3	S	271	GLN
2	T	48	HIS
2	T	99	ASN
2	T	124	GLN
2	T	182	ASN
2	T	284	GLN
2	U	48	HIS
2	U	94	HIS
2	U	110	ASN
2	U	164	ASN
2	U	193	GLN
2	U	238	ASN
2	U	281	HIS
3	V	85	GLN
3	V	109	HIS
3	V	136	HIS
3	V	142	HIS
3	V	210	HIS
3	V	214	ASN
3	V	238	HIS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
3	V	242	HIS
3	V	271	GLN
3	V	275	HIS
3	V	318	GLN
2	W	48	HIS
2	W	99	ASN
2	W	124	GLN
2	W	177	ASN
2	X	48	HIS
2	X	94	HIS
2	X	110	ASN
2	X	193	GLN
2	X	238	ASN
2	X	281	HIS
3	Y	85	GLN
3	Y	109	HIS
3	Y	136	HIS
3	Y	210	HIS
3	Y	238	HIS
3	Y	242	HIS
3	Y	271	GLN
3	Y	275	HIS
2	Z	48	HIS
2	Z	124	GLN
2	Z	284	GLN
2	a	99	ASN
2	a	110	ASN
2	a	238	ASN
2	a	281	HIS
3	b	85	GLN
3	b	136	HIS
3	b	188	ASN
3	b	210	HIS
3	b	214	ASN
3	b	242	HIS
3	b	275	HIS
3	b	318	GLN
3	b	322	GLN
3	b	333	GLN
2	c	40	GLN
2	c	48	HIS
2	c	124	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	c	284	GLN
2	d	40	GLN
2	d	48	HIS
2	d	94	HIS
2	d	110	ASN
2	d	193	GLN
2	d	238	ASN
2	d	281	HIS
3	e	109	HIS
3	e	123	ASN
3	e	136	HIS
3	e	142	HIS
3	e	163	GLN
3	e	210	HIS
3	e	214	ASN
3	e	242	HIS
3	e	271	GLN
3	e	275	HIS
3	e	437	HIS
4	f	7	HIS
4	g	7	HIS
4	h	7	HIS
4	i	7	HIS
4	j	7	HIS
4	k	7	HIS
4	l	7	HIS
4	l	30	ASN
4	m	7	HIS
4	m	57	GLN
4	n	7	HIS
4	n	30	ASN
4	o	7	HIS
4	p	7	HIS
4	p	57	GLN
4	q	7	HIS
4	q	30	ASN
4	q	57	GLN
4	r	7	HIS
4	s	7	HIS
4	s	57	GLN
4	t	7	HIS
4	t	57	GLN

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 oligosaccharides in this entry.

5.6 Ligand geometry

There are no ligands in this entry.

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.

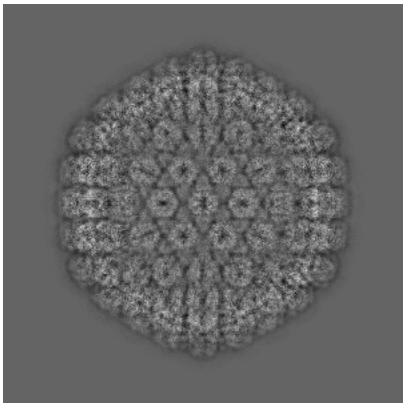
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-6907. These allow visual inspection of the internal detail of the map and identification of artifacts.

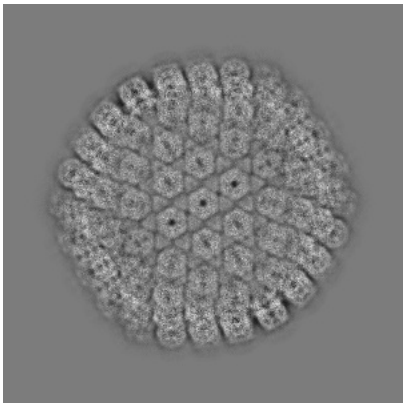
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections

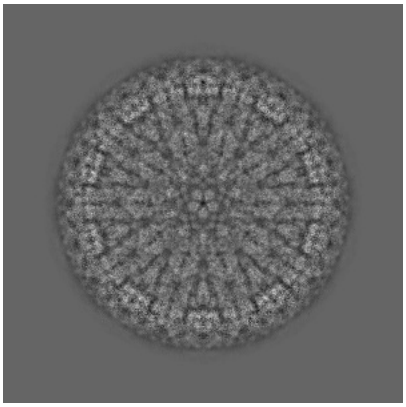
6.1.1 Primary map



X



Y

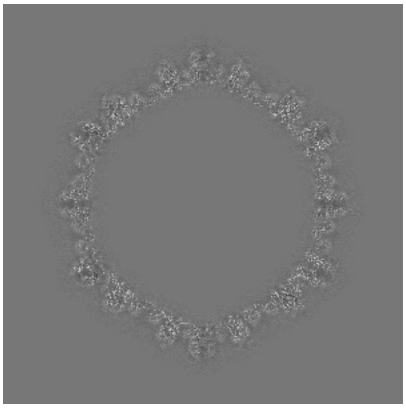


Z

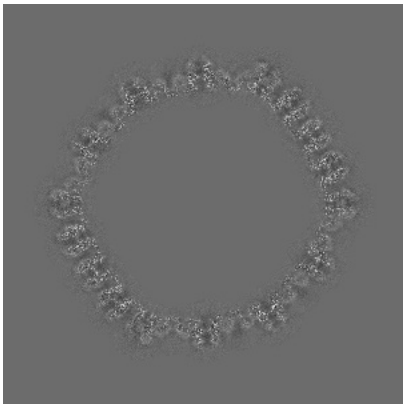
The images above show the map projected in three orthogonal directions.

6.2 Central slices

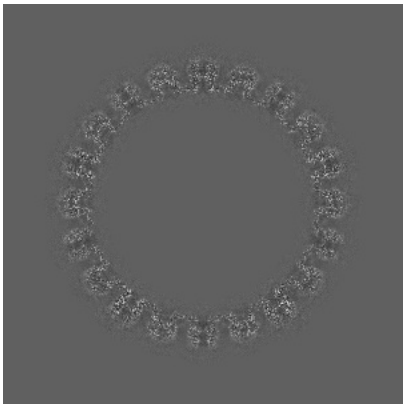
6.2.1 Primary map



X Index: 600



Y Index: 600

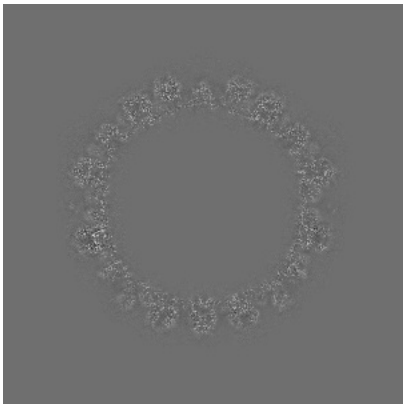


Z Index: 600

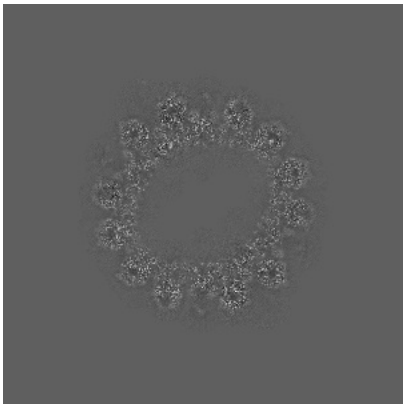
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

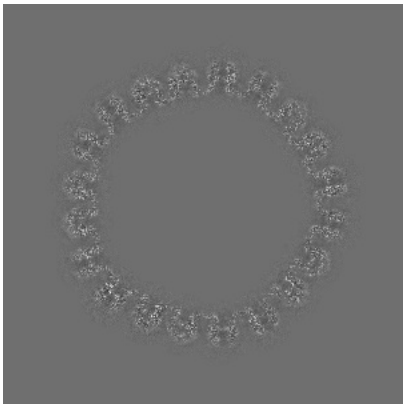
6.3.1 Primary map



X Index: 772



Y Index: 319

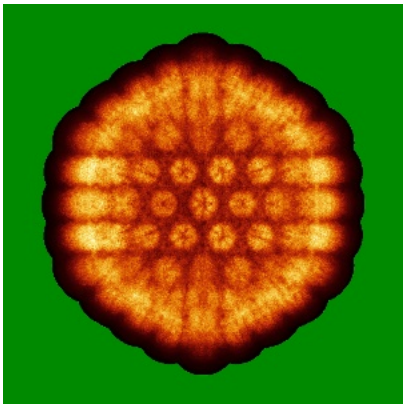


Z Index: 695

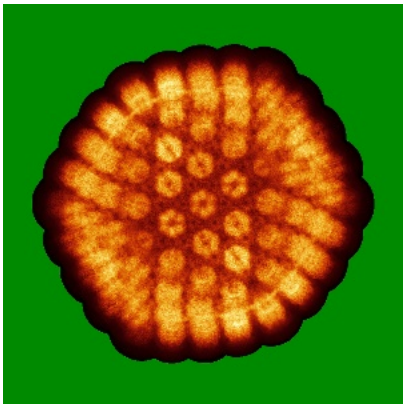
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal standard-deviation projections (False-color) (i)

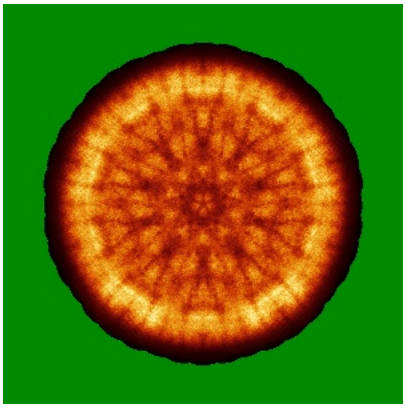
6.4.1 Primary map



X



Y



Z

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

6.5 Orthogonal surface views (i)

6.5.1 Primary map

X Y Z

The images above show the 3D surface view of the map at the recommended contour level 12.0. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

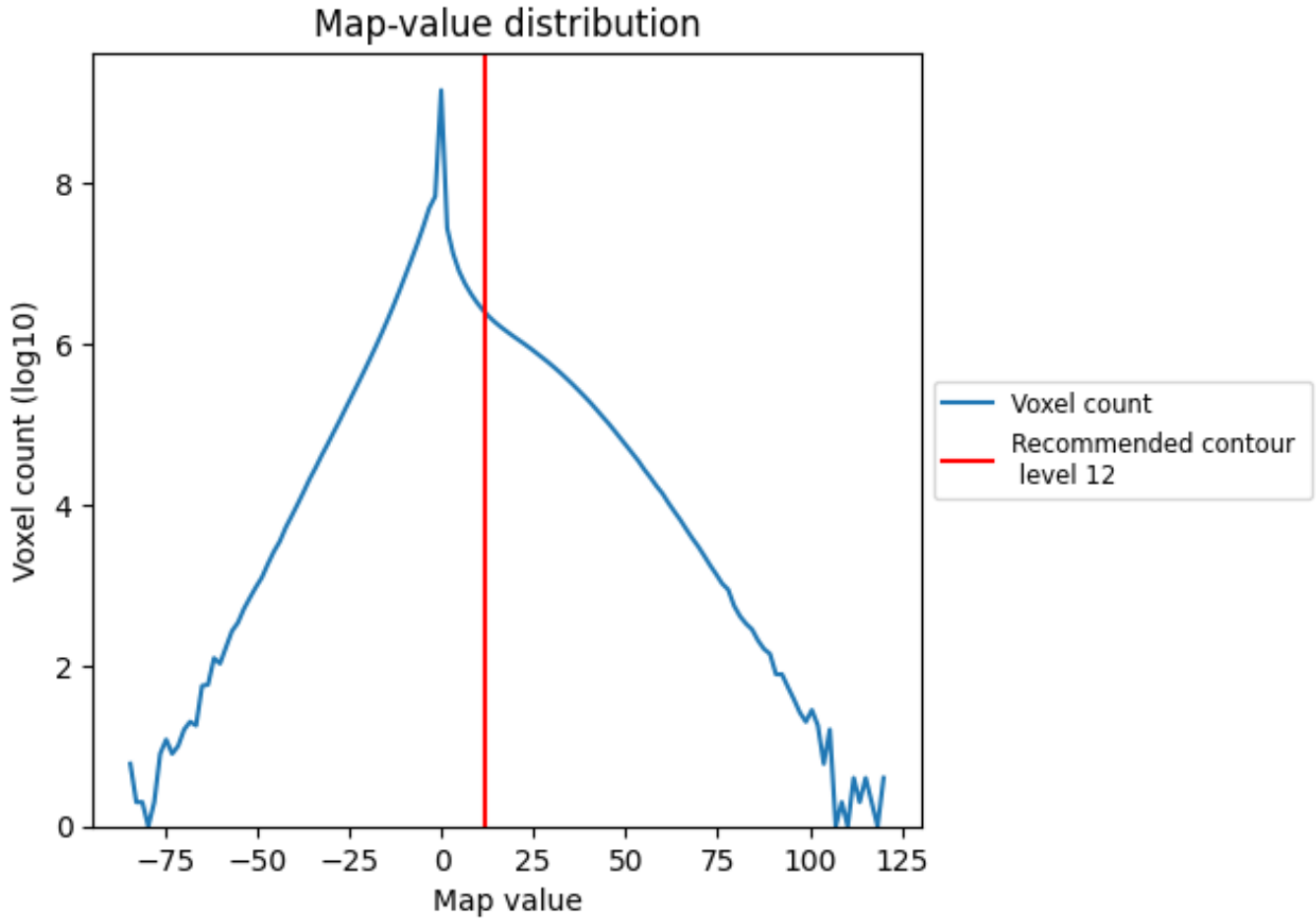
6.6 Mask visualisation (i)

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

7 Map analysis

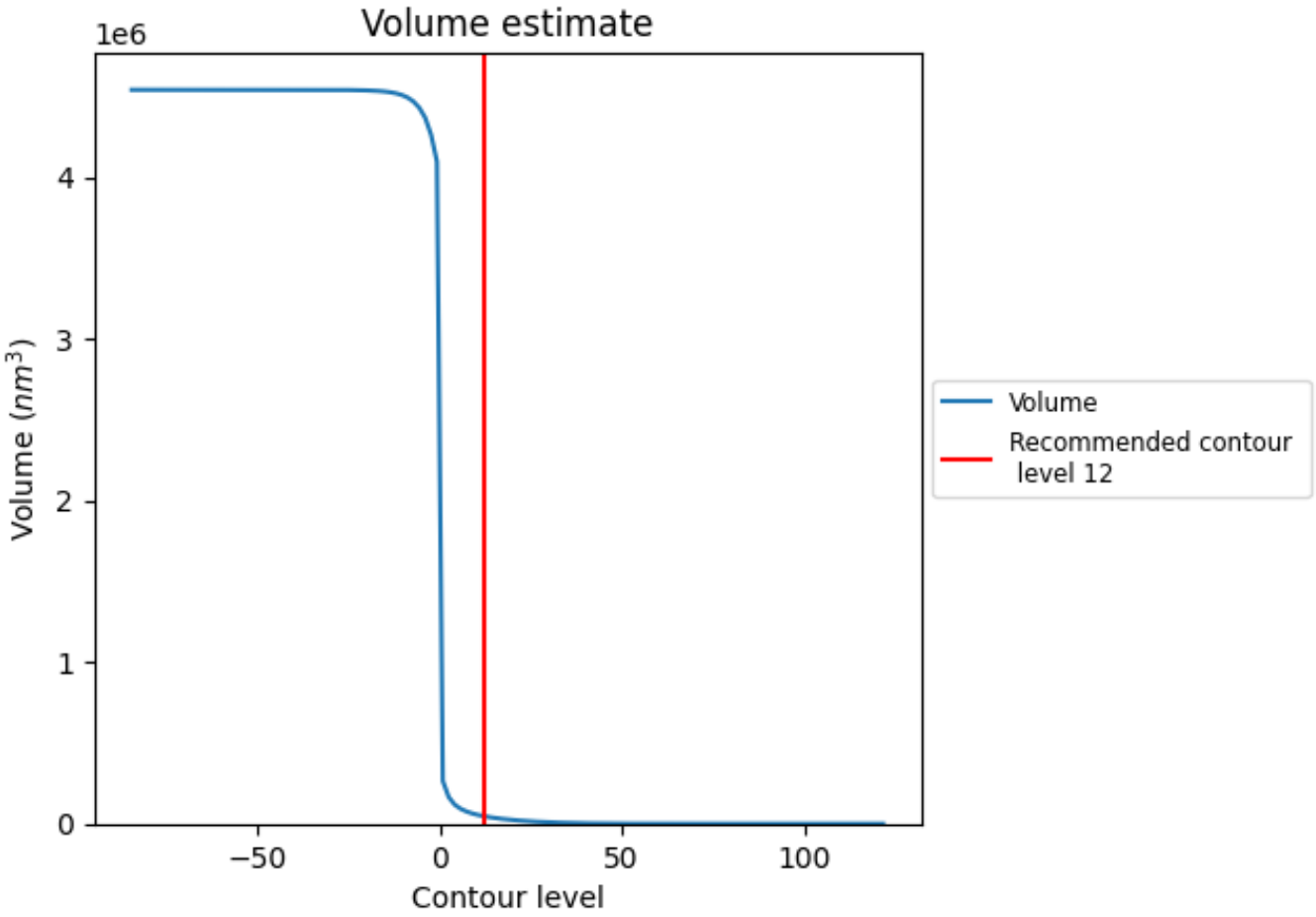
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution



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

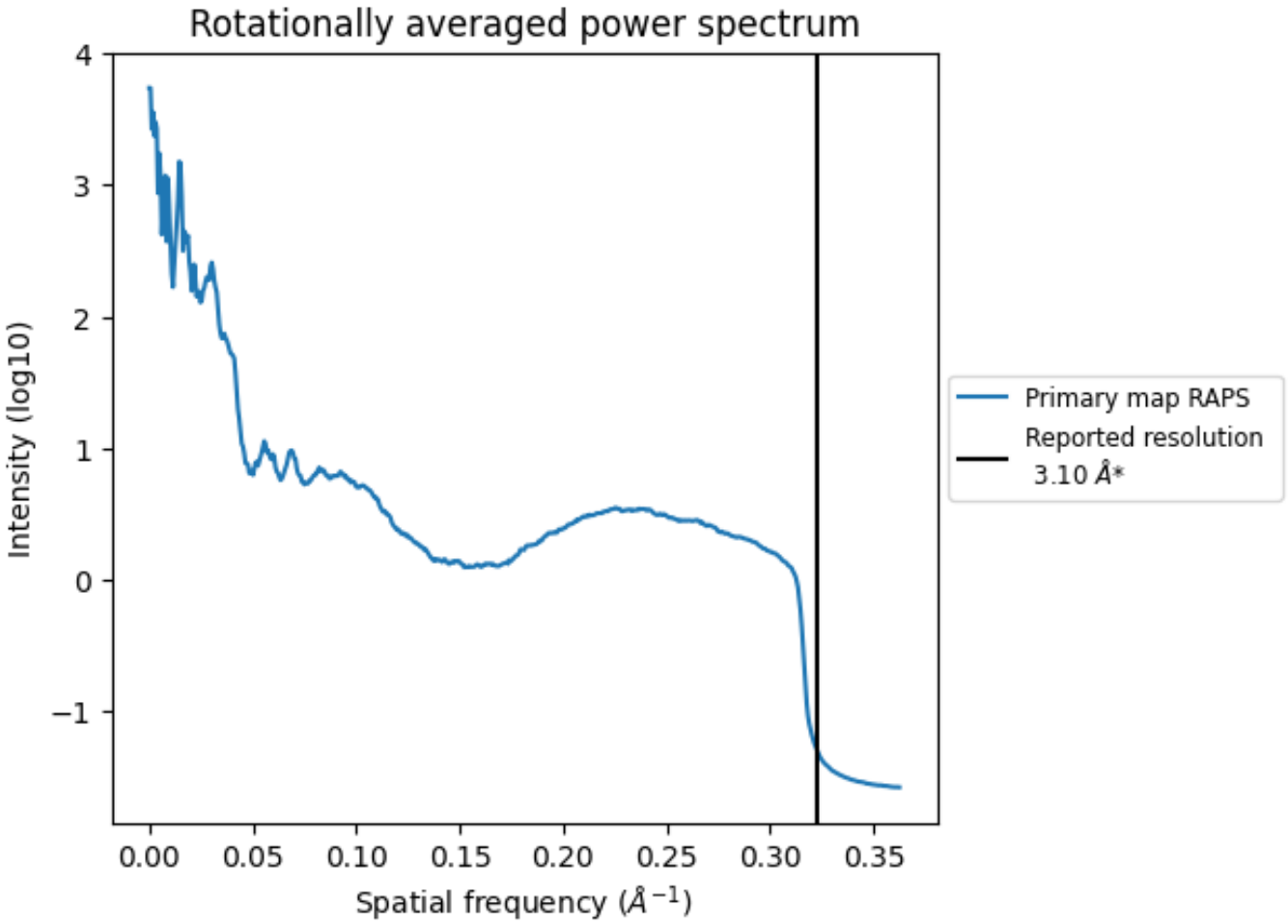
7.2 Volume estimate (i)



The volume at the recommended contour level is 47511 nm^3; this corresponds to an approximate mass of 42918 kDa.

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

7.3 Rotationally averaged power spectrum (i)



*Reported resolution corresponds to spatial frequency of 0.323 $Å^{-1}$

8 Fourier-Shell correlation

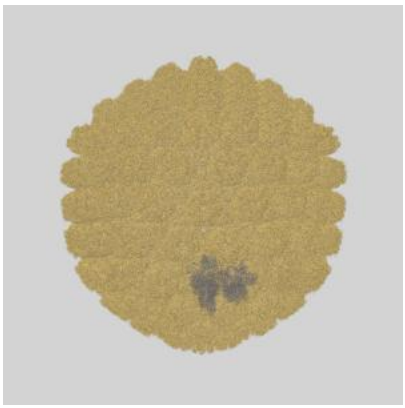
This section was not generated. No FSC curve or half-maps provided.

9 Map-model fit

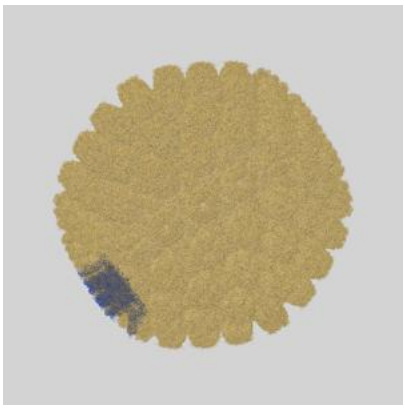
This section contains information regarding the fit between EMDB map EMD-6907 and PDB model 5ZAP. Per-residue inclusion information can be found in section 3 on page 8.

9.1 Map-model overlays

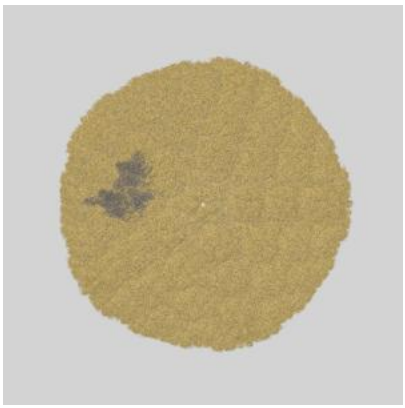
9.1.1 Map-model overlay



X

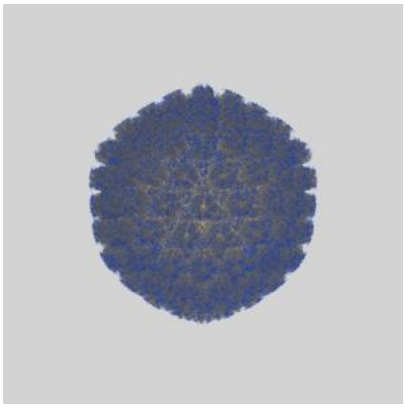


Y

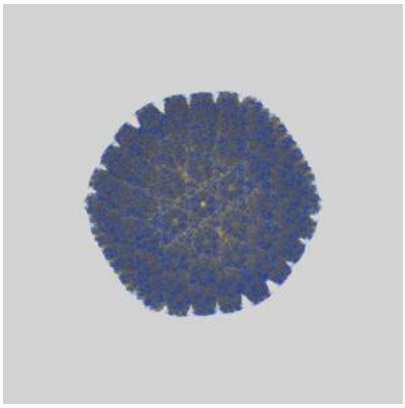


Z

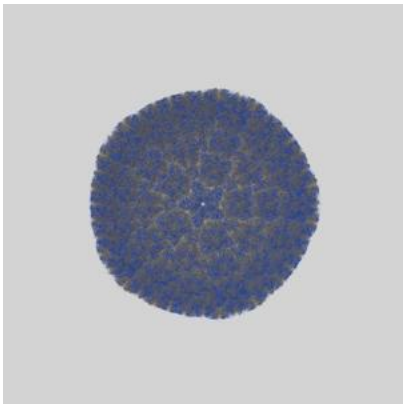
9.1.2 Map-model assembly overlay



X



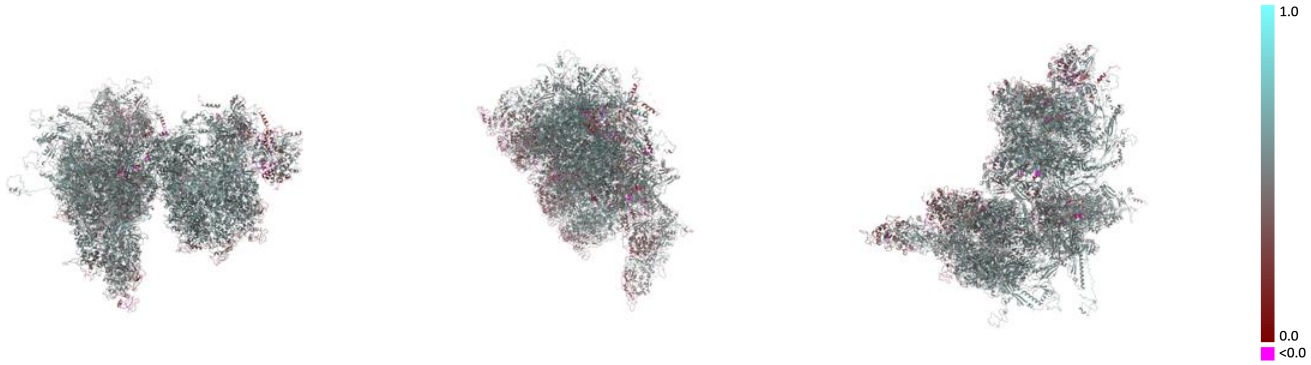
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 12.0 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

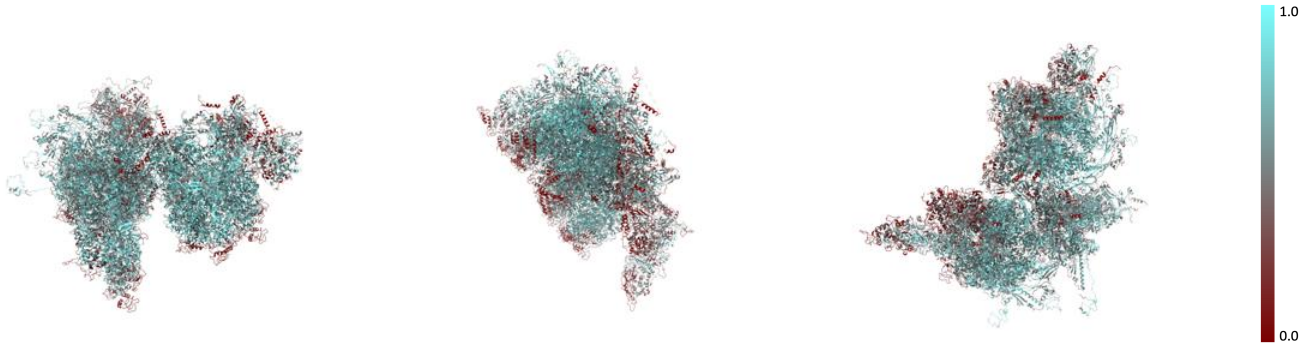
9.2 Q-score mapped to coordinate model (i)



X Y Z

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

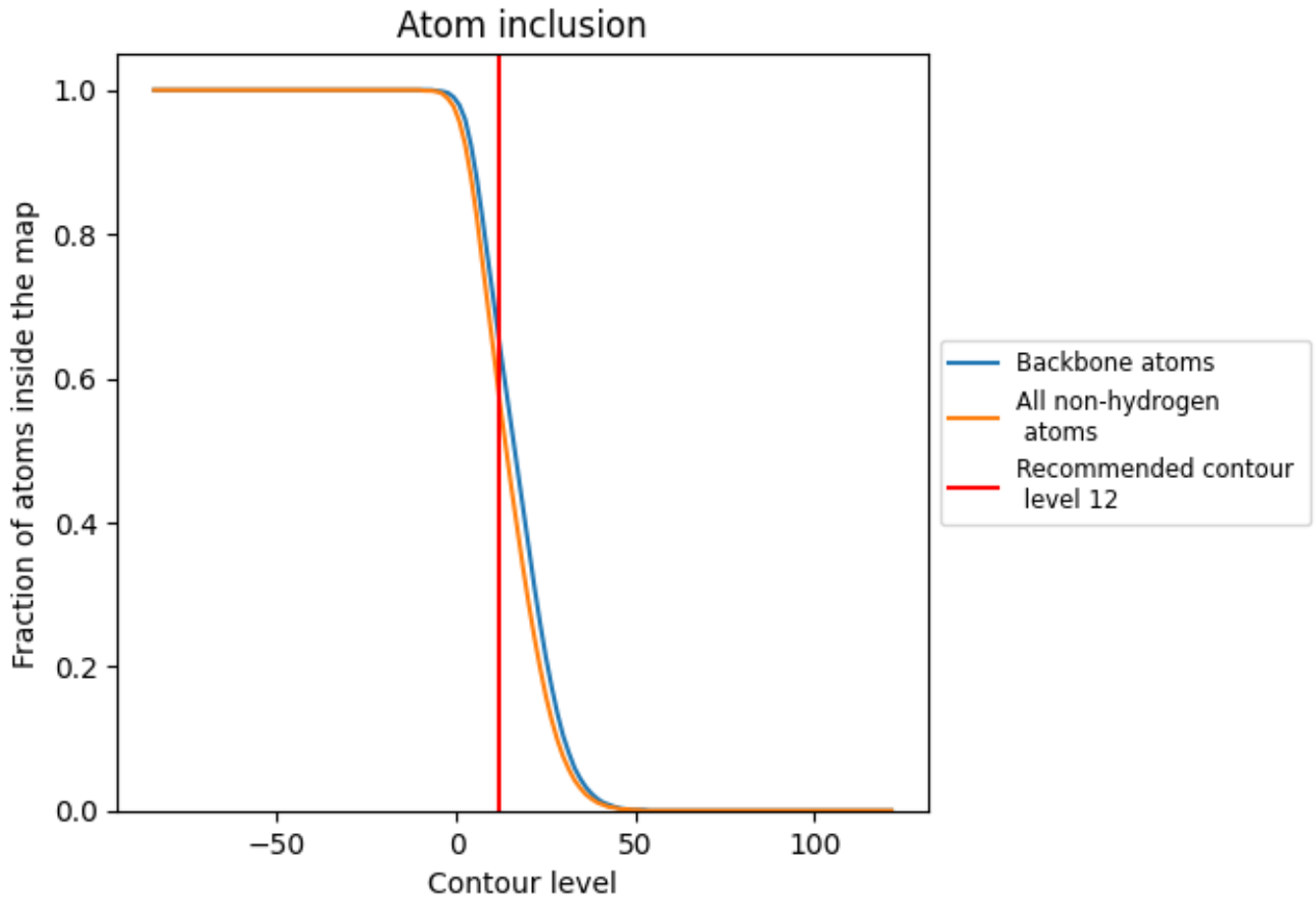
9.3 Atom inclusion mapped to coordinate model (i)



X Y Z

The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (12).

9.4 Atom inclusion (i)



At the recommended contour level, 65% of all backbone atoms, 57% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary

The table lists the average atom inclusion at the recommended contour level (12) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.5750	0.4880
A	0.6240	0.5110
B	0.6570	0.5130
C	0.6760	0.5170
D	0.6200	0.5140
E	0.6270	0.5230
F	0.6710	0.5210
G	0.4050	0.4200
H	0.5920	0.5030
I	0.6710	0.5120
J	0.6030	0.4880
K	0.7230	0.5420
L	0.7220	0.5370
M	0.6800	0.5410
N	0.6620	0.5310
O	0.6860	0.5300
P	0.6920	0.5270
Q	0.2850	0.3950
R	0.2600	0.3700
S	0.1760	0.3810
T	0.4530	0.4700
U	0.4800	0.4750
V	0.2670	0.3970
W	0.4530	0.4400
X	0.4640	0.4480
Y	0.2970	0.3920
Z	0.4640	0.4230
a	0.4170	0.3570
b	0.2870	0.3550
c	0.4750	0.4860
d	0.5110	0.4820
e	0.2820	0.4150
f	0.1530	0.3980
g	0.0750	0.2750
h	0.0690	0.2780

Continued on next page...

Continued from previous page...

Chain	Atom inclusion	Q-score
i	0.1050	0.2800
j	0.0640	0.3190
k	0.1040	0.2930
l	0.1210	0.2810
m	0.0460	0.2520
n	0.1040	0.2720
o	0.0580	0.1720
p	0.1280	0.2930
q	0.1180	0.3040
r	0.0980	0.2730
s	0.0890	0.2860
t	0.0860	0.2950