Full wwPDB EM Validation Report ⓘ

Dec 18, 2023 – 02:04 PM EST

PDB ID	:	1O1C
EMDB ID	:	EMD-1001
Title	:	MOLECULAR MODELS OF AVERAGED RIGOR CROSSBRIDGES FROM TOMOGRAMS OF INSECT FLIGHT MUSCLE
Authors	:	Chen, L.F.; Winkler, H.; Reedy, M.K.; Reedy, M.C.; Taylor, K.A.
Deposited on	:	2002-11-18
Resolution	:	70.00 Å(reported)
Based on initial models	:	1ATN, 2MYS

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:

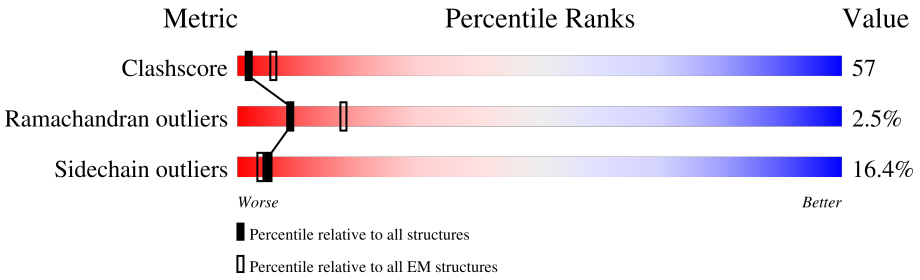
EMDB validation analysis	:	0.0.1.dev70
Mogul	:	1.8.5 (274361), CSD as541be (2020)
MolProbity	:	4.02b-467
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
MapQ	:	1.9.9
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.36

1 Overall quality at a glance (i)

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

The reported resolution of this entry is 70.00 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	158937	4297
Ramachandran outliers	154571	4023
Sidechain outliers	154315	3826

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	840	100% 25% 50% 20% ·
1	D	840	100% 26% 51% 19% ·
1	G	840	100% 25% 51% 21% ·
1	J	840	100% 25% 50% 20% ·
1	P	840	100% 25% 51% 20% ·
2	B	145	100% 66% 26% 6% ·
2	E	145	100% 64% 27% 6% ·
2	H	145	100% 62% 29% 6% ·

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Mol	Chain	Length	Quality of chain
2	K	145	97% 64% 26% 6%
2	Q	145	100% 66% 26% 6%
3	C	147	100% 60% 37%
3	F	147	84% 61% 37%
3	I	147	100% 61% 37%
3	L	147	100% 61% 37%
3	R	147	100% 61% 37%
4	0	375	99% 57% 31% 9%
4	1	375	98% 61% 31% 6%
4	2	375	99% 61% 30% 6%
4	3	375	99% 62% 29% 6%
4	4	375	99% 63% 29% 6%
4	5	375	99% 64% 28% 6%
4	7	375	99% 64% 27% 6%
4	8	375	99% 59% 31% 8%
4	9	375	99% 58% 31% 8%
4	V	375	99% 56% 33% 9%
4	W	375	99% 56% 33% 9%
4	X	375	93% 61% 30% 7%
4	Y	375	99% 62% 29% 7%
4	Z	375	99% 62% 30% 6%

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

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
1	MLY	A	505	-	-	X	-
1	MLY	A	553	-	-	X	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
1	MLY	A	764	-	-	X	-
1	MLY	A	782	-	-	X	-
1	MLY	A	837	-	-	X	-
1	MLY	A	839	-	-	X	-
1	MLY	D	553	-	-	X	-
1	MLY	D	764	-	-	X	-
1	MLY	D	782	-	-	X	-
1	MLY	G	505	-	-	X	-
1	MLY	G	553	-	-	X	-
1	MLY	G	764	-	-	X	-
1	MLY	G	84	-	-	X	-
1	MLY	J	505	-	-	X	-
1	MLY	J	553	-	-	X	-
1	MLY	J	839	-	-	X	-
1	MLY	J	84	-	-	X	-
1	MLY	P	505	-	-	X	-
1	MLY	P	839	-	-	X	-
1	MLY	P	84	-	-	X	-

2 Entry composition (i)

There are 4 unique types of molecules in this entry. The entry contains 85919 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 SKELETAL MUSCLE MYOSIN II.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	840	Total	C	N	O	S	0	0
			6797	4382	1135	1243	37		
1	D	840	Total	C	N	O	S	0	0
			6797	4382	1135	1243	37		
1	G	840	Total	C	N	O	S	0	0
			6797	4382	1135	1243	37		
1	J	840	Total	C	N	O	S	0	0
			6797	4382	1135	1243	37		
1	P	840	Total	C	N	O	S	0	0
			6797	4382	1135	1243	37		

- Molecule 2 is a protein called SKELETAL MUSCLE MYOSIN II REGULATORY LIGHT CHAIN.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	B	145	Total	C	N	O	S	0	0
			1127	717	177	227	6		
2	E	145	Total	C	N	O	S	0	0
			1127	717	177	227	6		
2	H	145	Total	C	N	O	S	0	0
			1127	717	177	227	6		
2	K	145	Total	C	N	O	S	0	0
			1127	717	177	227	6		
2	Q	145	Total	C	N	O	S	0	0
			1127	717	177	227	6		

- Molecule 3 is a protein called SKELETAL MUSCLE MYOSIN II ESSENTIAL LIGHT CHAIN.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	C	147	Total	C	N	O	S	0	0
			1123	698	188	230	7		
3	F	147	Total	C	N	O	S	0	0
			1123	698	188	230	7		

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Mol	Chain	Residues	Atoms					AltConf	Trace
3	I	147	Total	C	N	O	S	0	0
			1123	698	188	230	7		
3	L	147	Total	C	N	O	S	0	0
			1123	698	188	230	7		
3	R	147	Total	C	N	O	S	0	0
			1123	698	188	230	7		

- Molecule 4 is a protein called SKELETAL MUSCLE ACTIN.

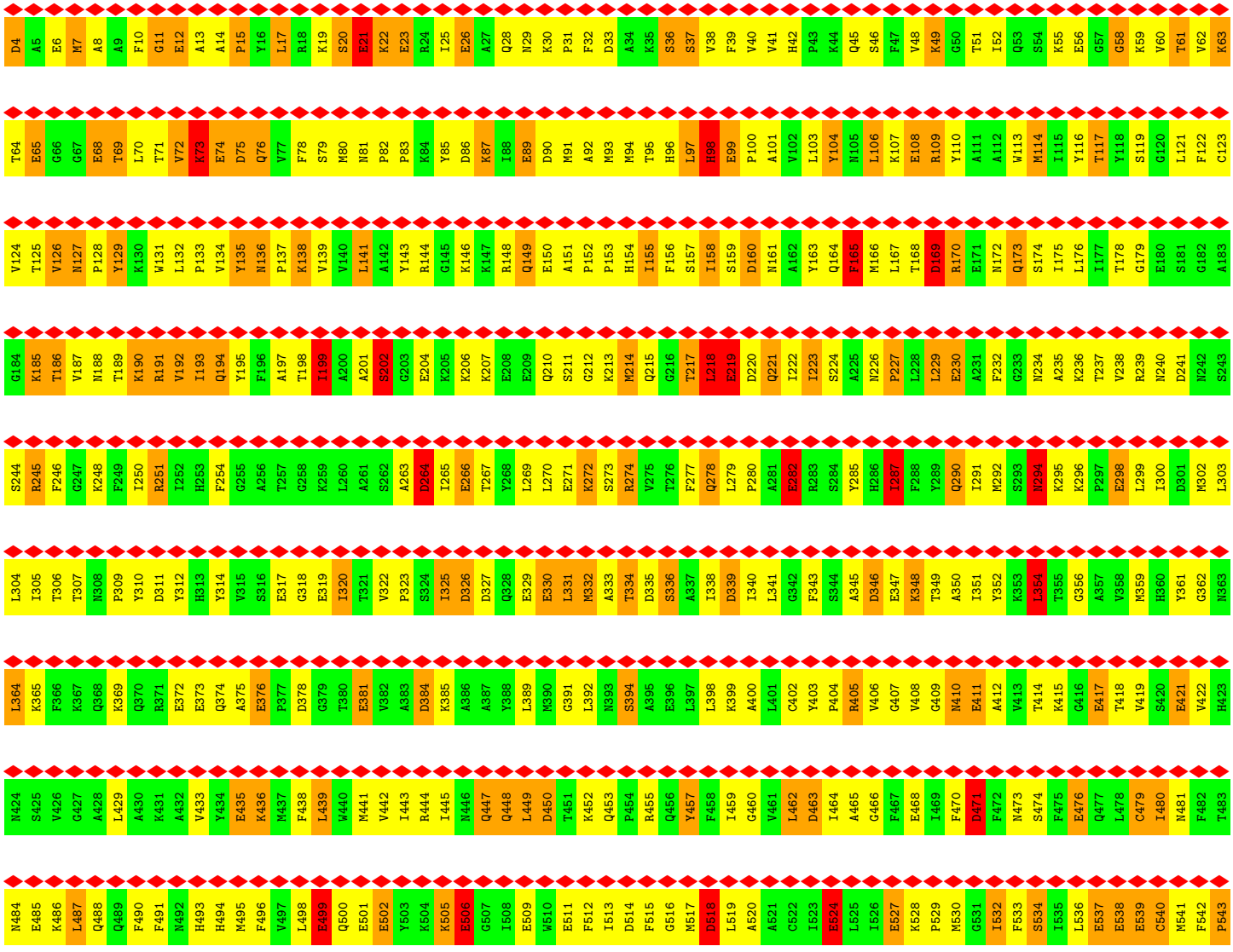
Mol	Chain	Residues	Atoms					AltConf	Trace
4	0	372	Total	C	N	O	S	0	0
			2906	1836	489	561	20		
4	1	372	Total	C	N	O	S	0	0
			2906	1836	489	561	20		
4	2	372	Total	C	N	O	S	0	0
			2906	1836	489	561	20		
4	3	372	Total	C	N	O	S	0	0
			2906	1836	489	561	20		
4	4	372	Total	C	N	O	S	0	0
			2906	1836	489	561	20		
4	5	372	Total	C	N	O	S	0	0
			2906	1836	489	561	20		
4	7	372	Total	C	N	O	S	0	0
			2906	1836	489	561	20		
4	8	372	Total	C	N	O	S	0	0
			2906	1836	489	561	20		
4	9	372	Total	C	N	O	S	0	0
			2906	1836	489	561	20		
4	V	372	Total	C	N	O	S	0	0
			2906	1836	489	561	20		
4	W	372	Total	C	N	O	S	0	0
			2906	1836	489	561	20		
4	X	372	Total	C	N	O	S	0	0
			2906	1836	489	561	20		
4	Y	372	Total	C	N	O	S	0	0
			2906	1836	489	561	20		
4	Z	372	Total	C	N	O	S	0	0
			2906	1836	489	561	20		

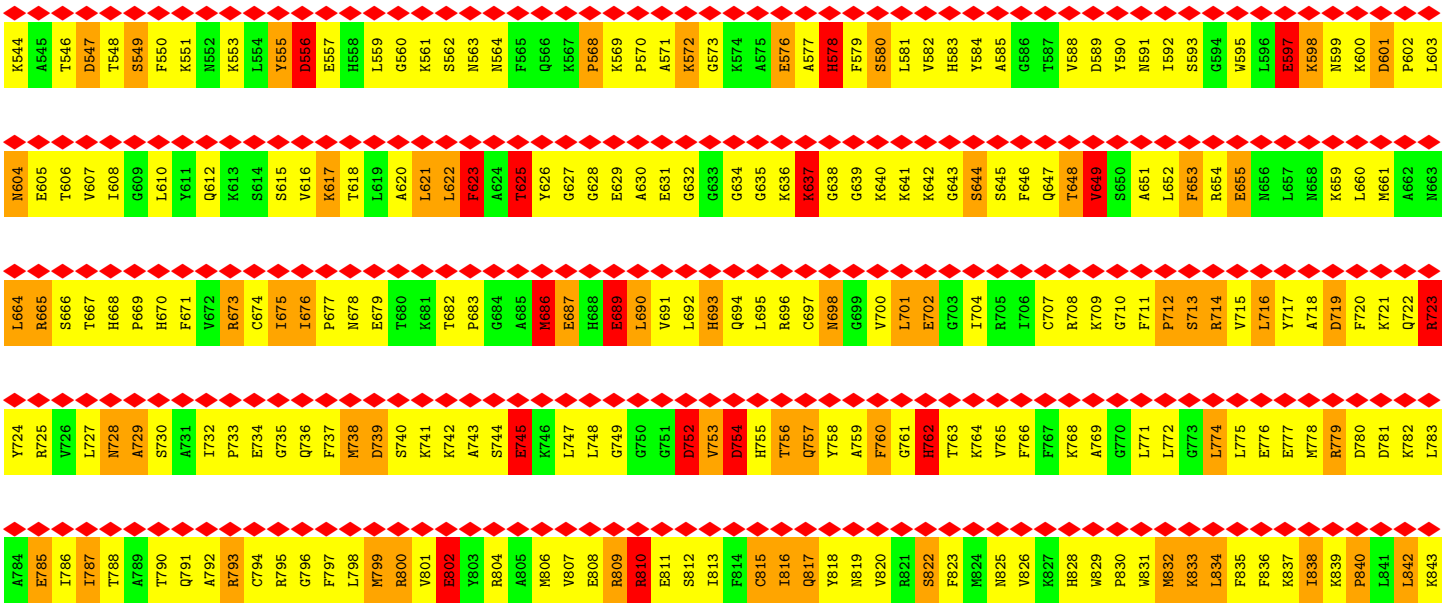
3 Residue-property plots (i)

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: SKELETAL MUSCLE MYOSIN II

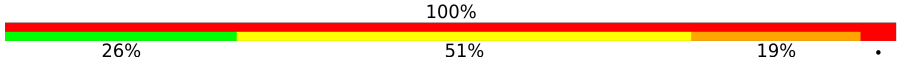
Chain A:

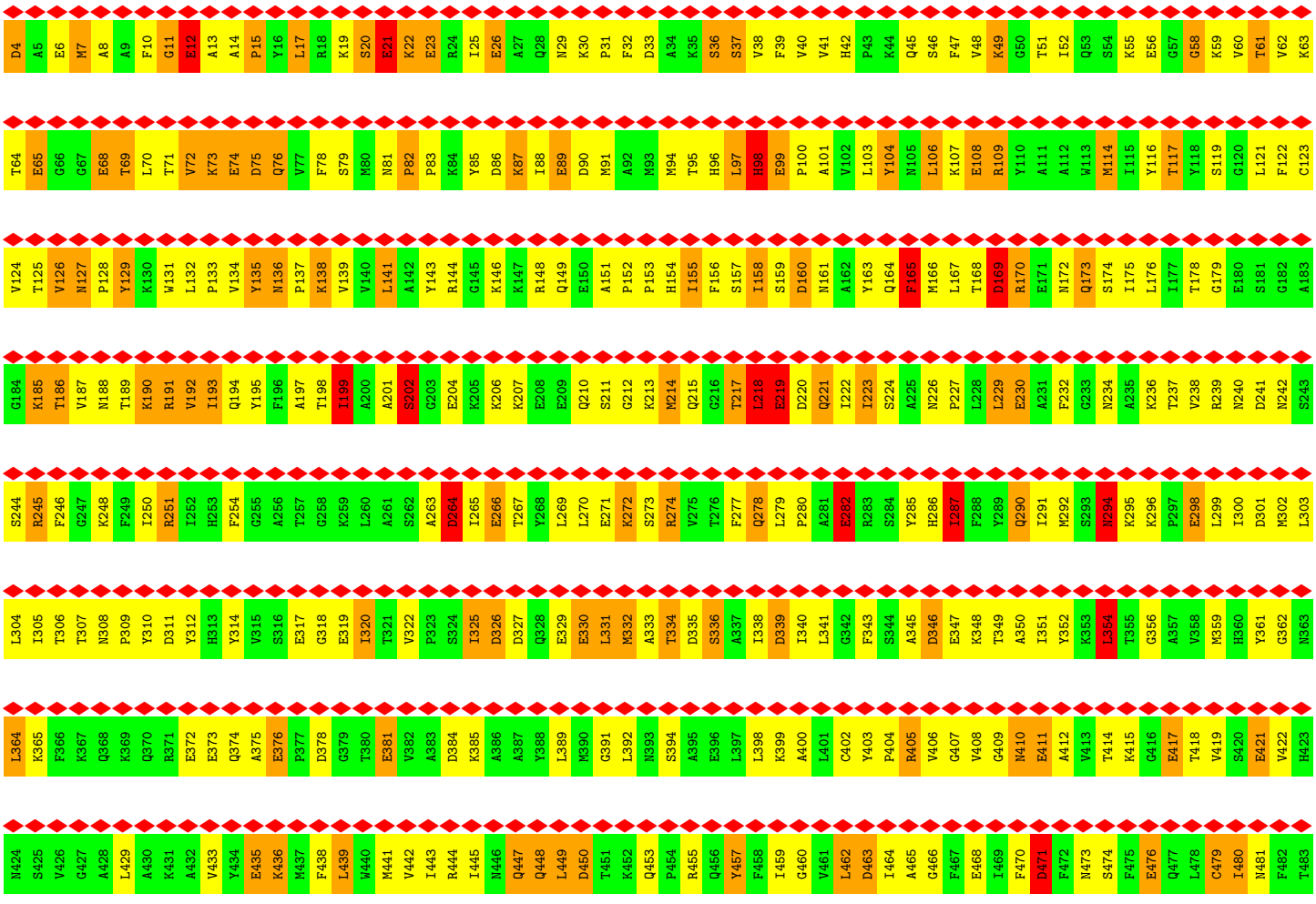


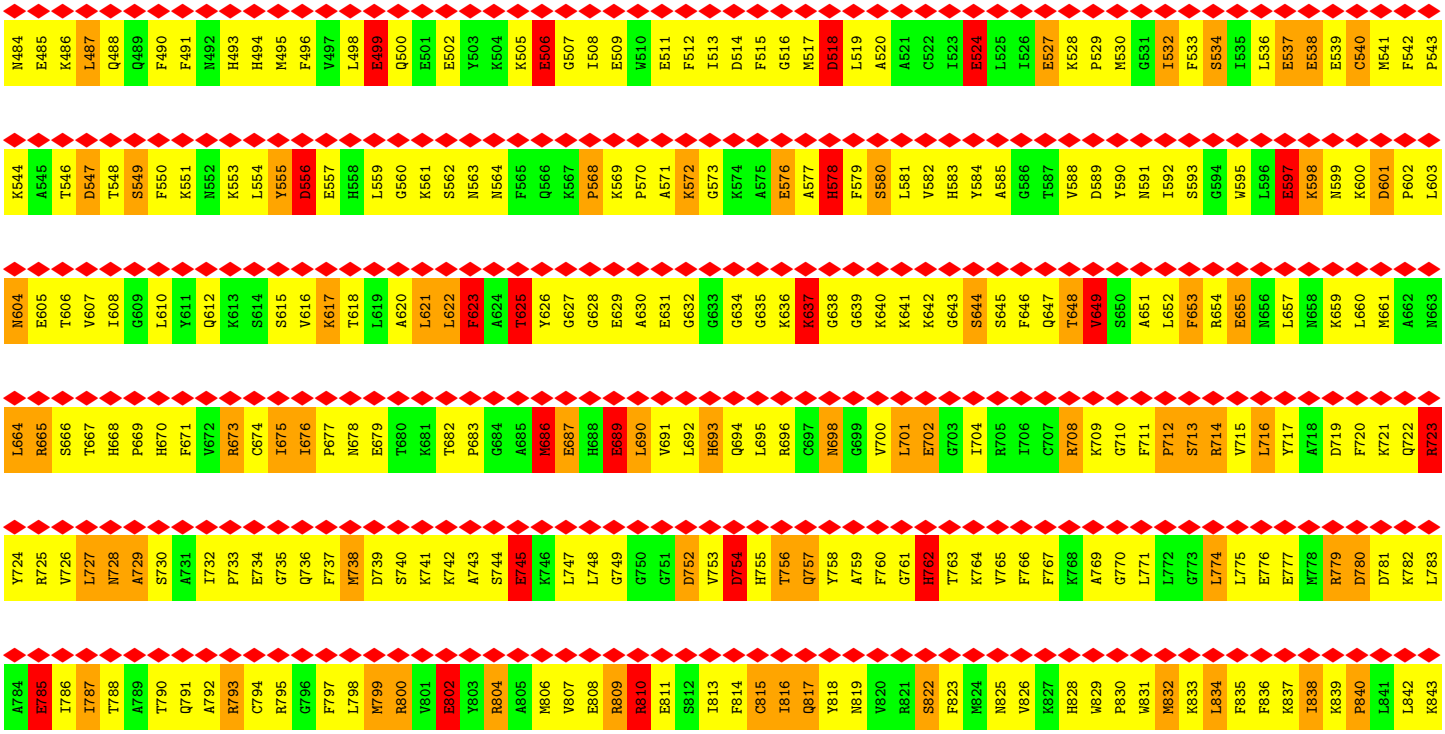


- Molecule 1: SKELETAL MUSCLE MYOSIN II

Chain D:

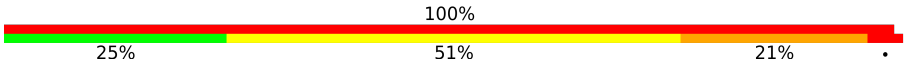


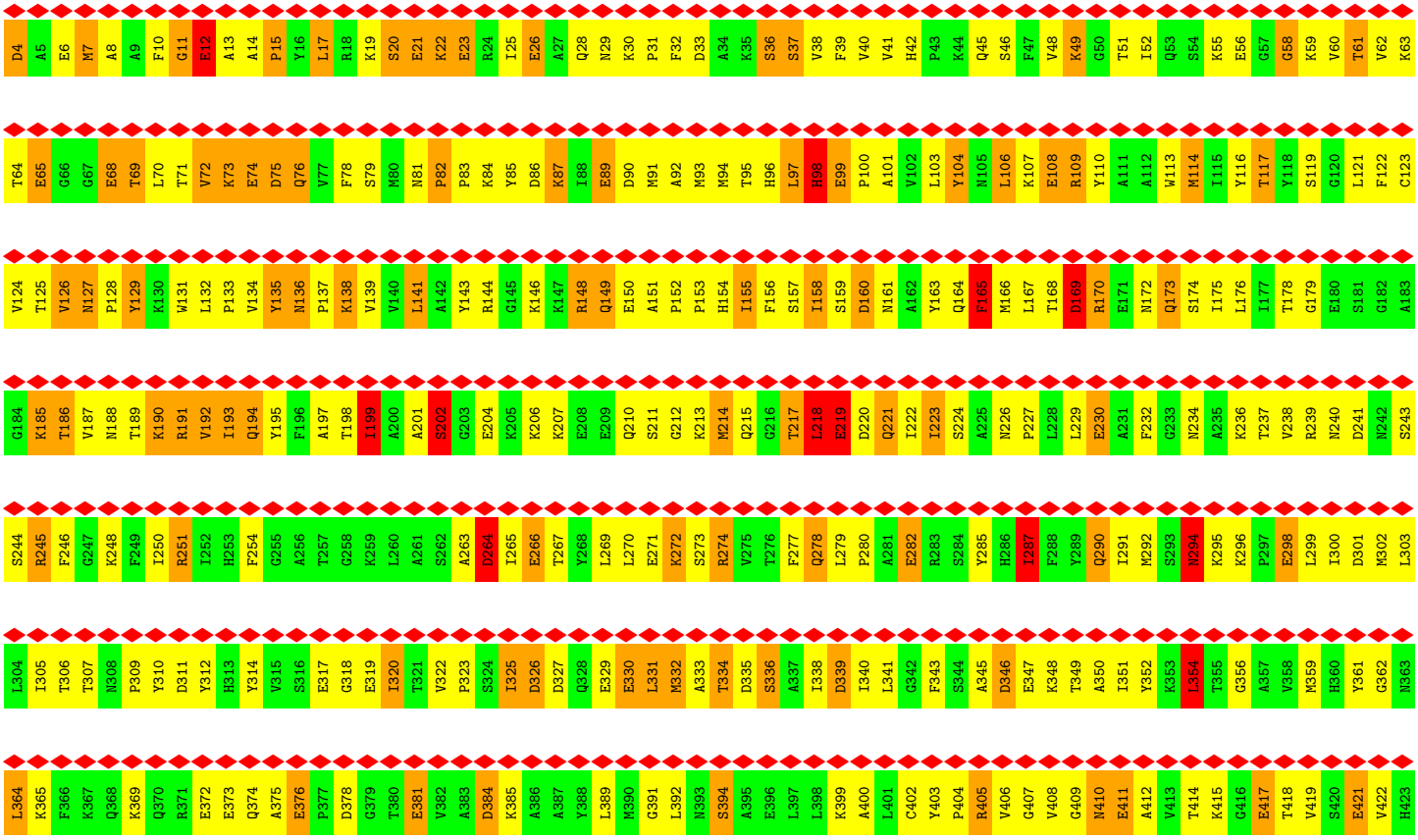


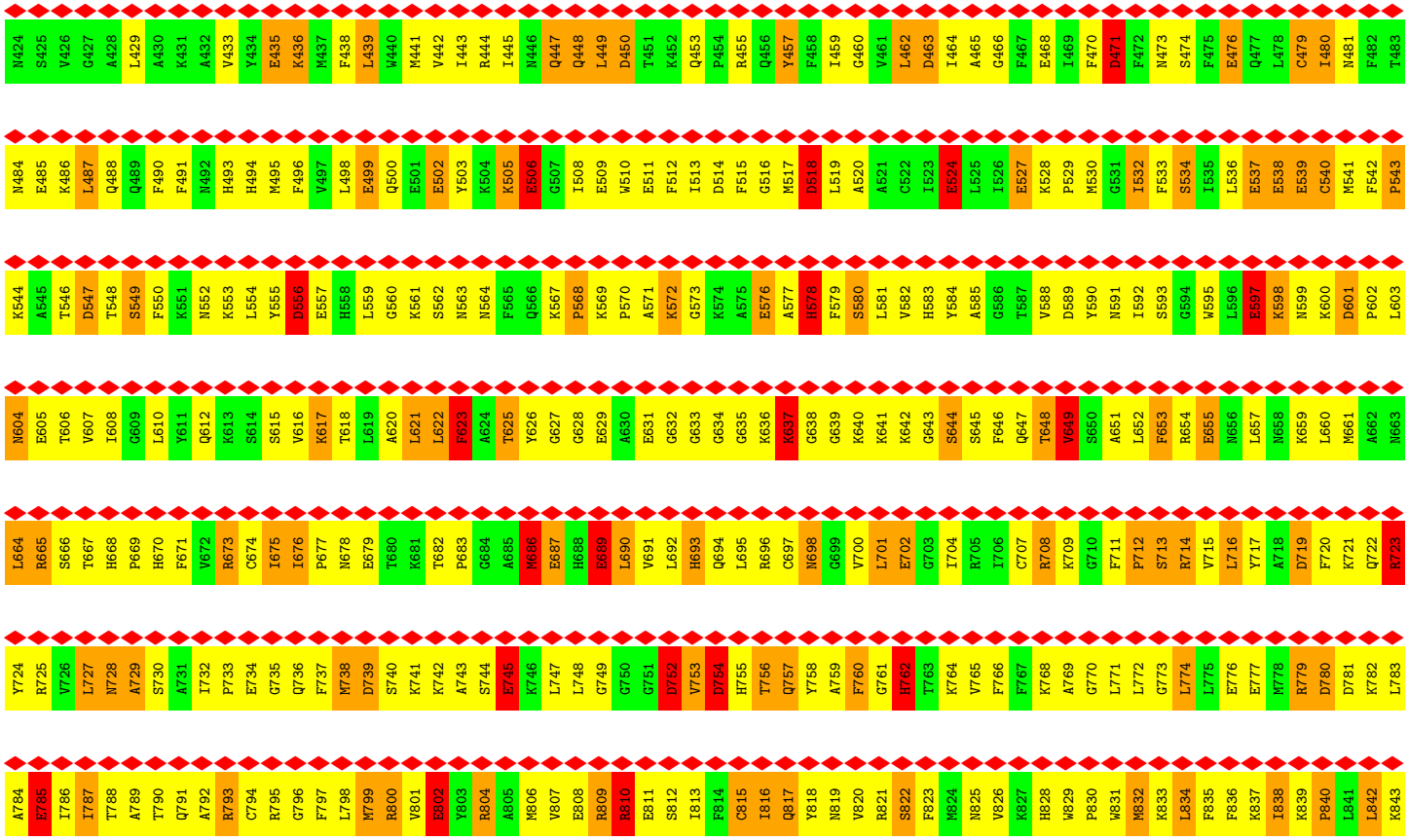


• Molecule 1: SKELETAL MUSCLE MYOSIN II

Chain G:

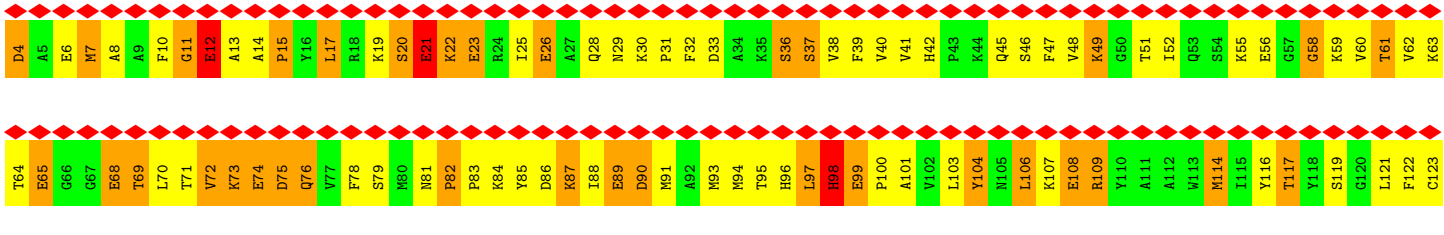


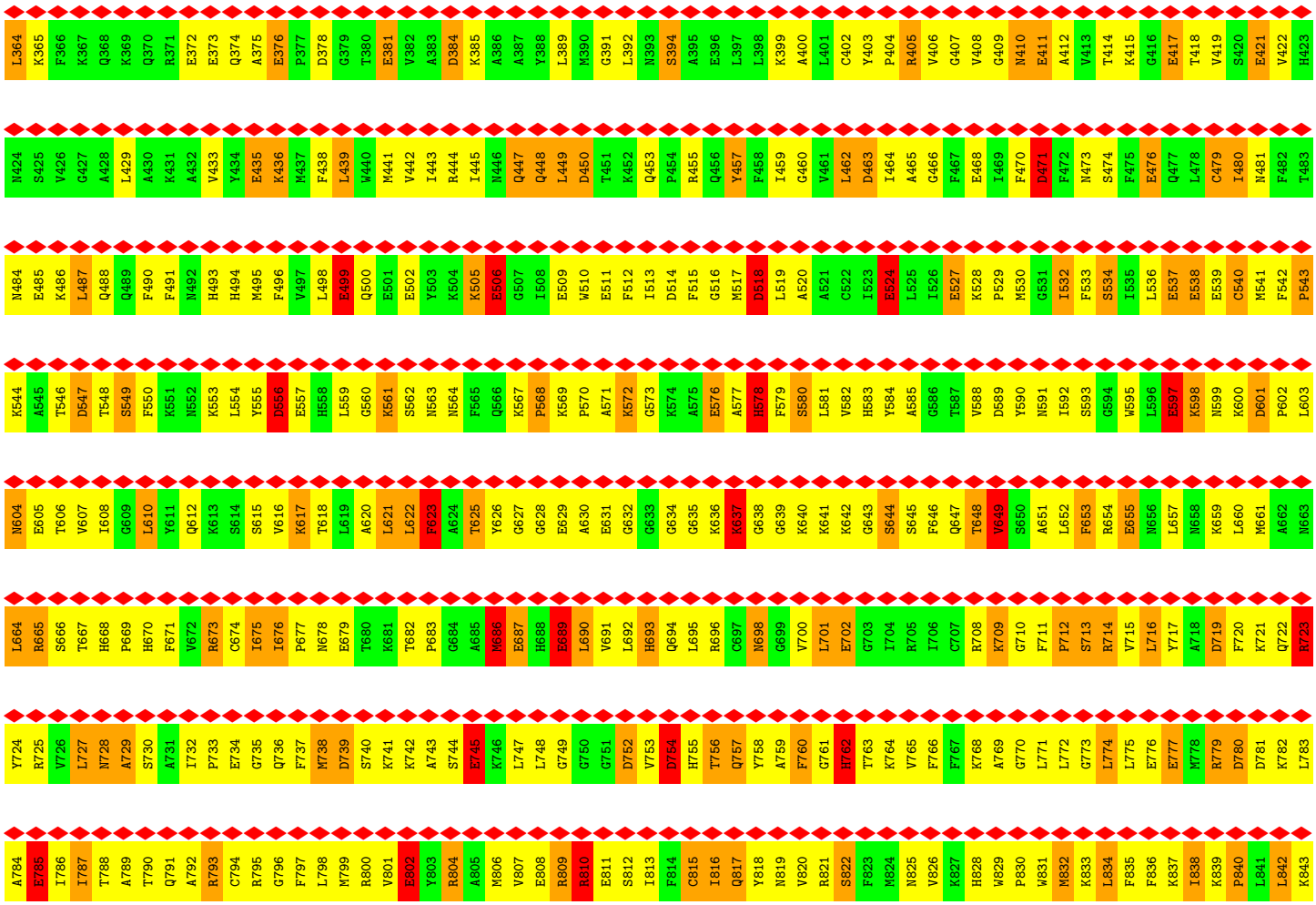




• Molecule 1: SKELETAL MUSCLE MYOSIN II

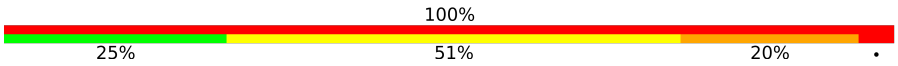
Chain J:

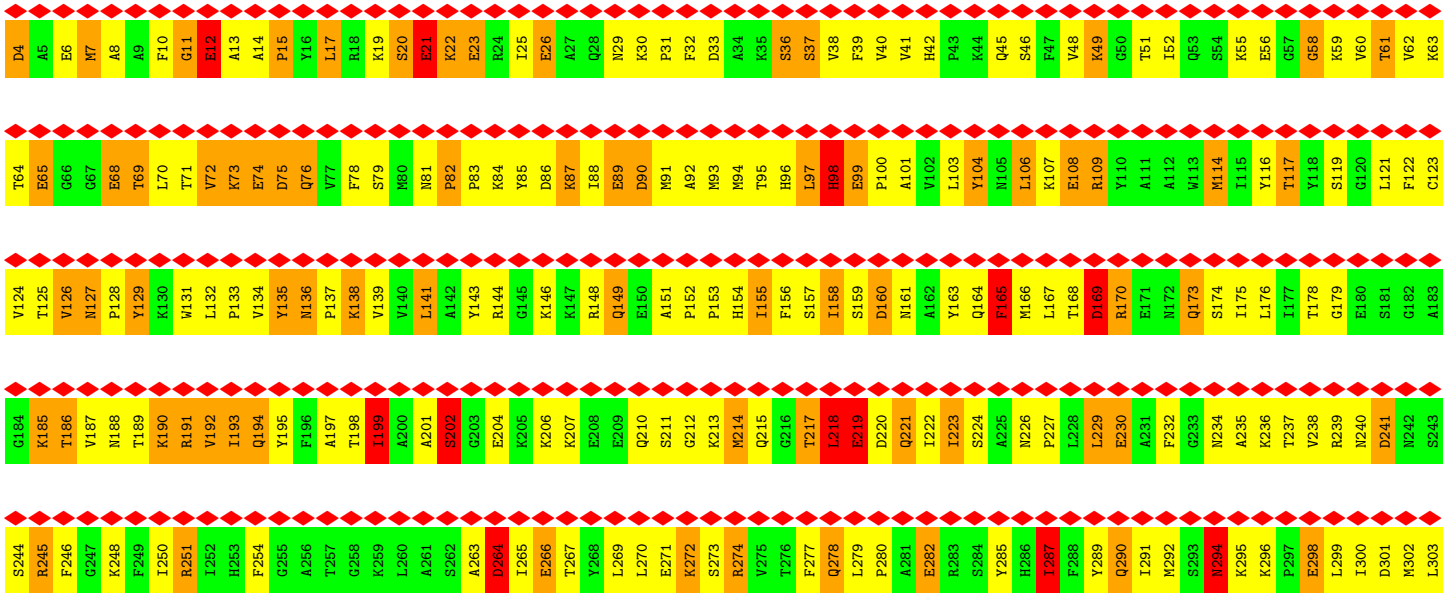


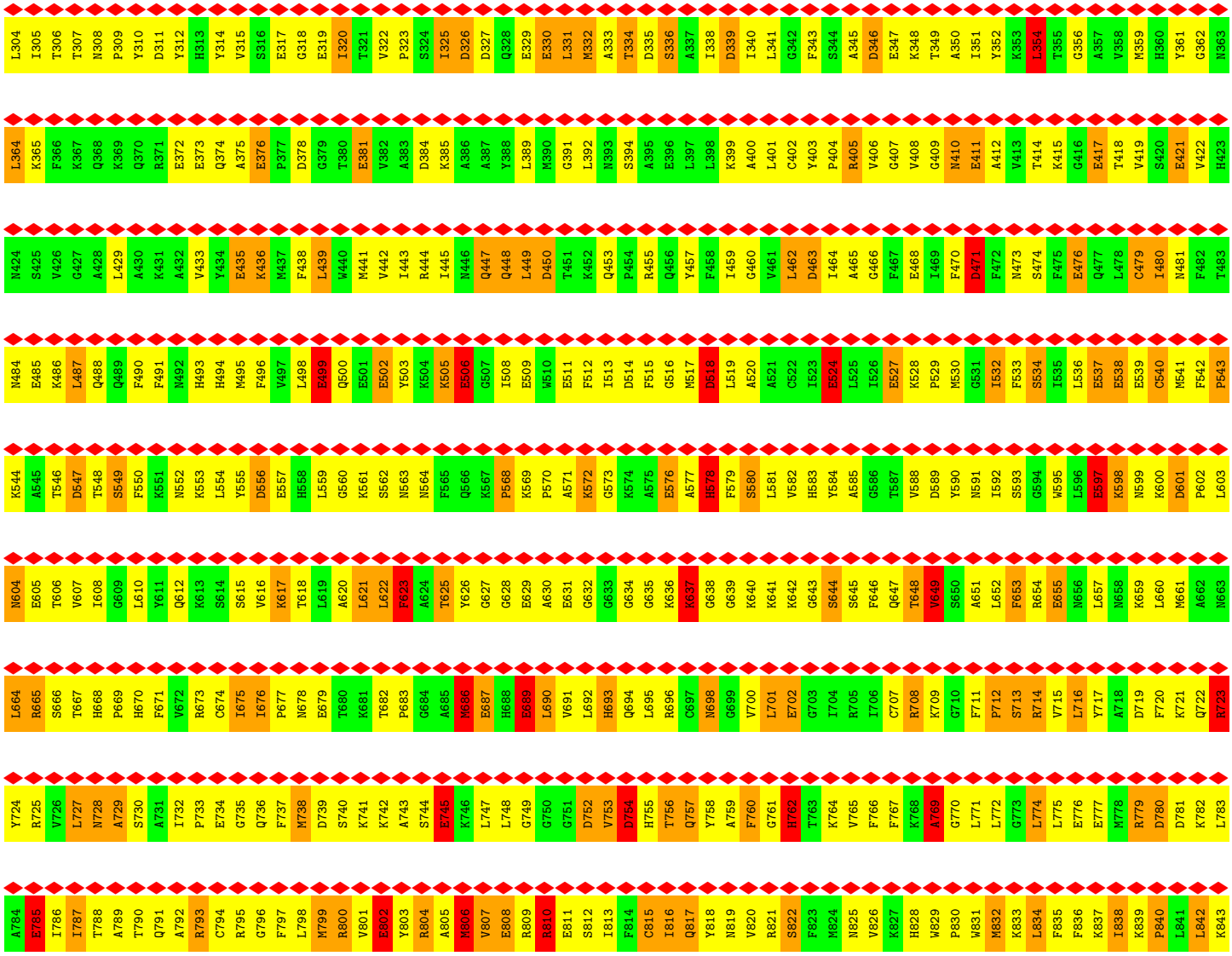


• Molecule 1: SKELETAL MUSCLE MYOSIN II

Chain P:

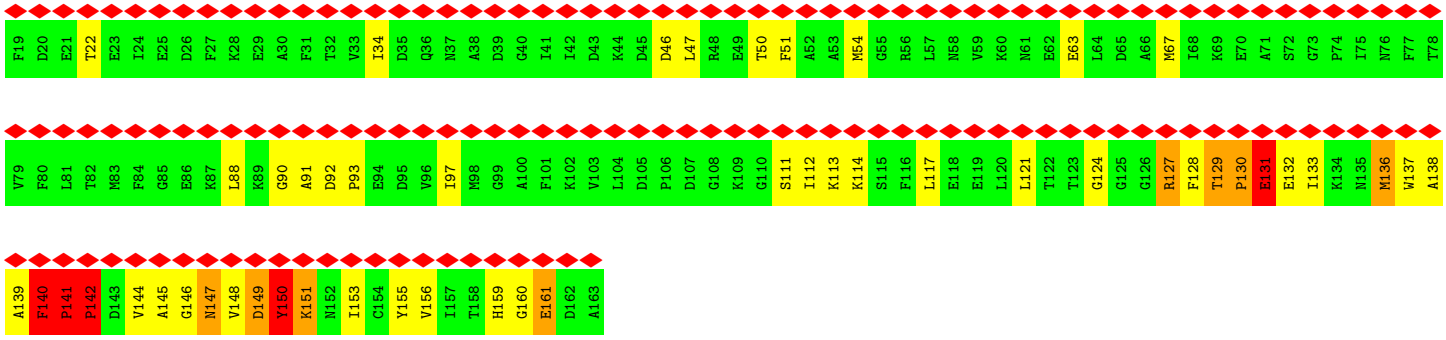






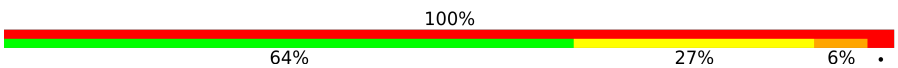
• Molecule 2: SKELETAL MUSCLE MYOSIN II REGULATORY LIGHT CHAIN

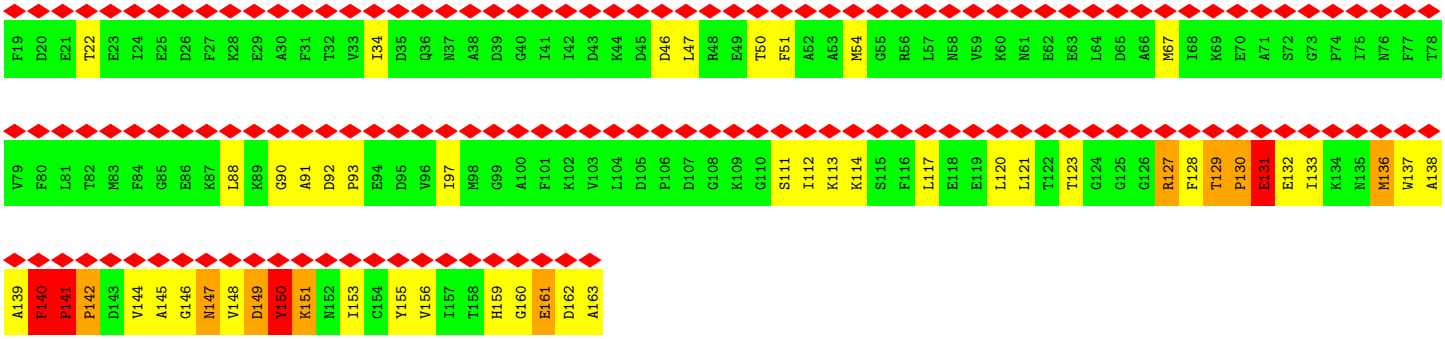
Chain B:



• Molecule 2: SKELETAL MUSCLE MYOSIN II REGULATORY LIGHT CHAIN

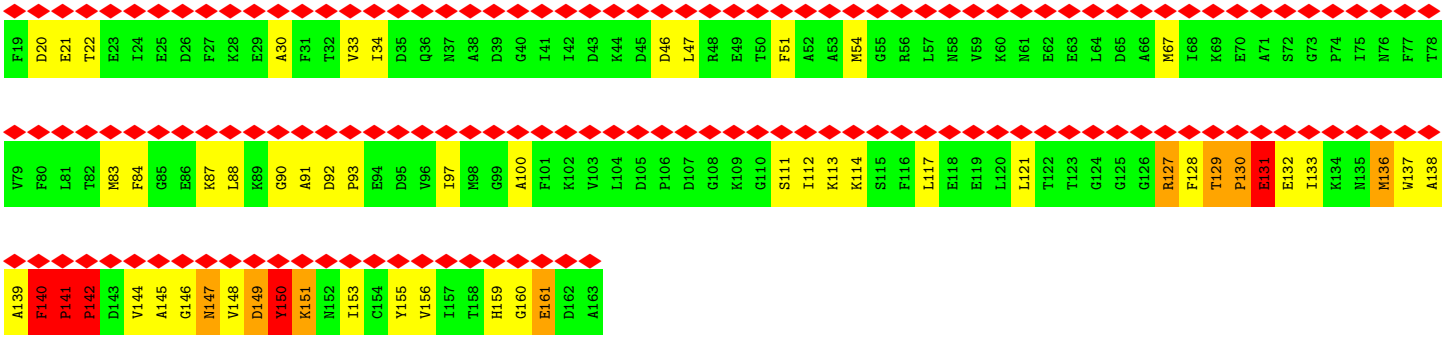
Chain E:





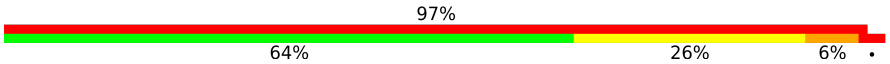
• Molecule 2: SKELETAL MUSCLE MYOSIN II REGULATORY LIGHT CHAIN

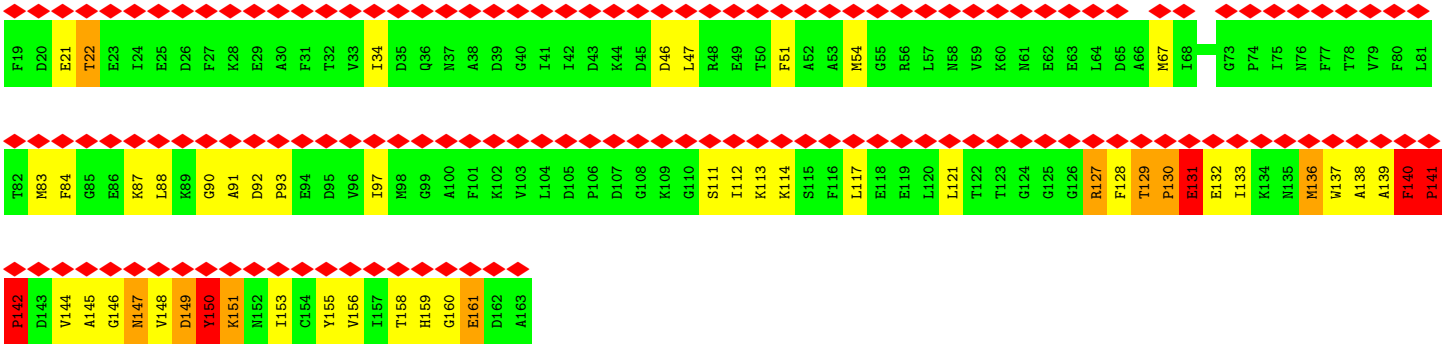
Chain H:



• Molecule 2: SKELETAL MUSCLE MYOSIN II REGULATORY LIGHT CHAIN

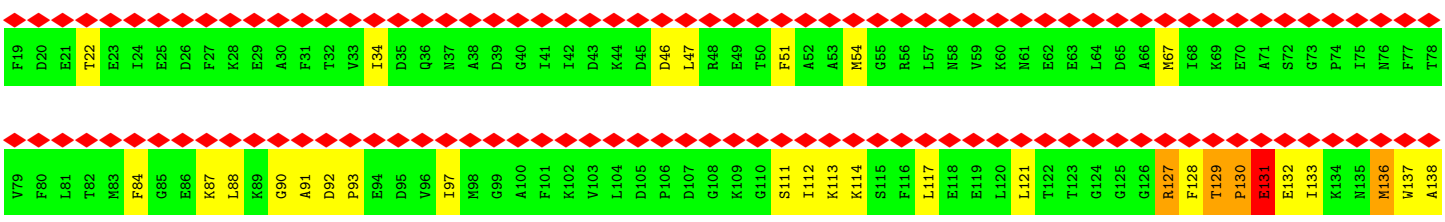
Chain K:

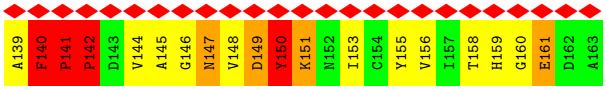




• Molecule 2: SKELETAL MUSCLE MYOSIN II REGULATORY LIGHT CHAIN

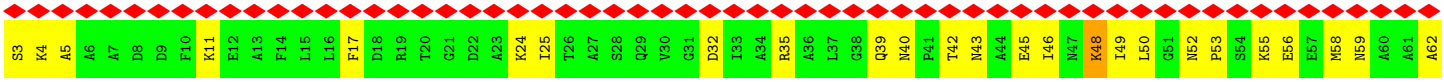
Chain Q:

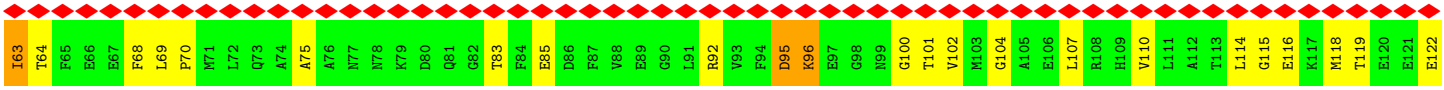


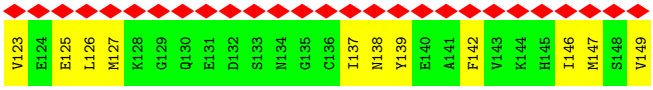


• Molecule 3: SKELETAL MUSCLE MYOSIN II ESSENTIAL LIGHT CHAIN

Chain C:

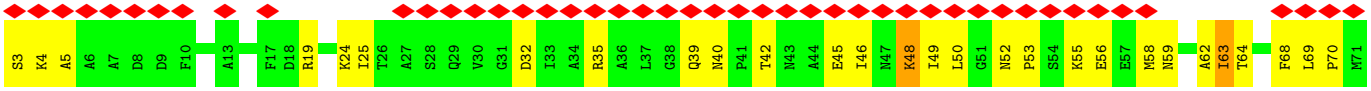


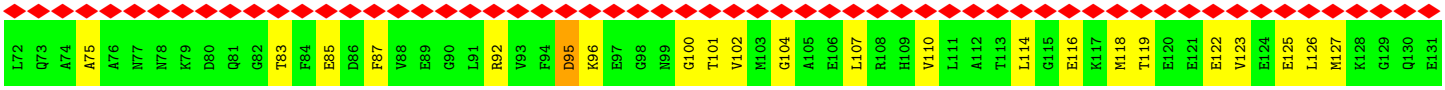


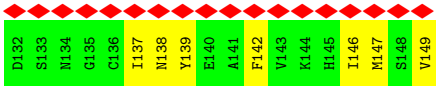


• Molecule 3: SKELETAL MUSCLE MYOSIN II ESSENTIAL LIGHT CHAIN

Chain F:

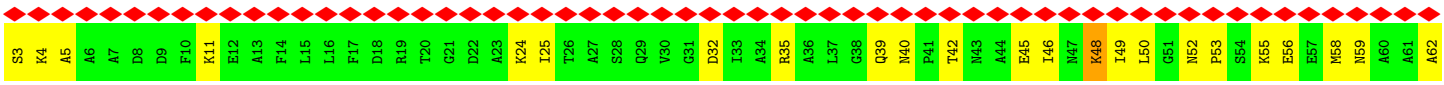


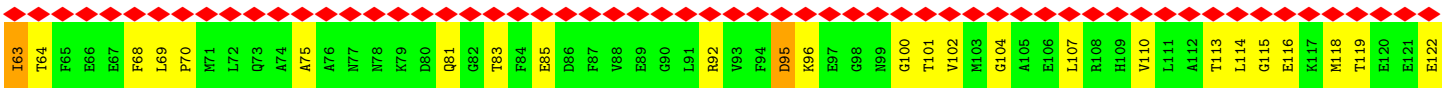


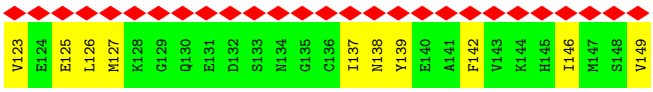


• Molecule 3: SKELETAL MUSCLE MYOSIN II ESSENTIAL LIGHT CHAIN

Chain I:

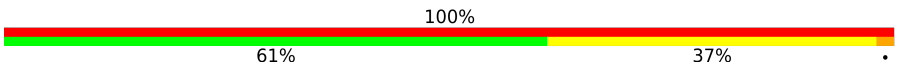






• Molecule 3: SKELETAL MUSCLE MYOSIN II ESSENTIAL LIGHT CHAIN

Chain L:



S3 K4 A5 A6 A7 D8 D9 F10 K11 E12 A13 F14 L15 L16 F17 D18 R19 T20 G21 D22 A23 K24 I25 T26 A27 S28 Q29 V30 G31 D32 I33 A34 R35 A36 L37 G38 Q39 N40 P41 T42 N43 A44 E45 I46 N47 K48 I49 L50 G51 N52 P53 S54 K55 E56 E57 M58 N59 A60 A61 A62

I63 T64 F65 E66 E67 F68 L69 P70 M71 L72 Q73 A74 A75 A76 N77 N78 K79 D80 Q81 G82 T83 F84 E85 D86 F87 V88 E89 G90 L91 R92 V93 F94 D95 K96 E97 G98 N99 G100 T101 V102 M103 G104 A105 E106 L107 R108 H109 V110 L111 A112 T113 L114 G115 E116 K117 M118 T119 E120 E121 E122

V123 E124 E125 L126 M127 K128 G129 Q130 E131 D132 S133 N134 G135 C136 I137 N138 Y139 E140 A141 F142 V143 K144 H145 I146 M147 S148 V149

• Molecule 3: SKELETAL MUSCLE MYOSIN II ESSENTIAL LIGHT CHAIN

Chain R:

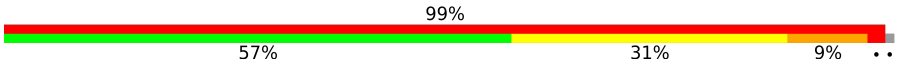
S3 K4 A5 A6 A7 D8 D9 F10 K11 E12 A13 F14 L15 L16 F17 D18 R19 T20 G21 D22 A23 K24 I25 T26 A27 S28 Q29 V30 G31 D32 I33 A34 R35 A36 L37 G38 Q39 N40 P41 T42 N43 A44 E45 I46 N47 K48 I49 L50 G51 N52 P53 S54 K55 E56 E57 M58 N59 A60 A61 A62

I63 T64 F65 E66 E67 F68 L69 P70 M71 L72 Q73 A74 A75 A76 N77 N78 K79 D80 Q81 G82 T83 F84 E85 D86 F87 V88 E89 G90 L91 R92 V93 F94 D95 K96 E97 G98 N99 G100 T101 V102 M103 G104 A105 E106 L107 R108 H109 V110 L111 A112 T113 L114 G115 E116 K117 M118 T119 E120 E121 E122

V123 E124 E125 L126 M127 K128 G129 Q130 E131 D132 S133 N134 G135 C136 I137 N138 Y139 E140 A141 F142 V143 K144 H145 I146 M147 S148 V149

• Molecule 4: SKELETAL MUSCLE ACTIN

Chain 0:



D1 E2 D3 E4 T5 T6 A7 L8 V9 C10 D11 N12 G13 S14 G15 L16 V17 K18 A19 G20 F21 A22 G23 D24 D25 A26 P27 R28 A29 V30 F31 P32 S33 I34 V35 G36 R37 P38 R39 H40 Q41 G42 V43 M44 V45 G46 M47 G48 Q49 K50 D51 S52 Y53 V54 G55 D56 E57 A58 Q59 S60

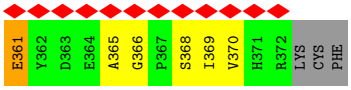
K61 R62 G63 I64 L65 T66 L67 K68 Y69 P70 I71 E72 H73 G74 I75 I76 T77 N78 W79 D80 D81 M82 E83 K84 I85 W86 H87 H88 T89 F90 Y91 N92 E93 L94 R95 V96 A97 P98 E99 E100 H101 P102 T103 L104 L105 T106 E107 A108 P109 L110 N111 P112 K113 A114 N115 R116 E117 K118 M119 T120

Q121 I122 M123 F124 E125 T126 F127 N128 V129 P130 A131 M132 Y133 V134 A135 I136 Q137 A138 V139 L140 S141 L142 Y143 A144 S145 G146 R147 T148 T149 G150 I151 V152 L153 D154 S155 G156 D157 G158 V159 T160 H161 N162 V163 P164 I165 Y166 E167 G168 Y169 A170 L171 P172 H173 A174 I175 M176 R177 L178 D179 L180

A181 G182 R183 D184 L185 T186 D187 Y188 L189 M190 K191 I192 L193 T194 E195 R196 G197 Y198 S199 F200 V201 T202 T203 A204 E205 R206 E207 I208 V209 R210 D211 I212 K213 E214 K215 L216 C217 Y218 V219 A220 L221 D222 F223 E224 N225 E226 M227 A228 T229 A230 A231 S232 S233 S234 S235 L236 E237 K238 S239 Y240

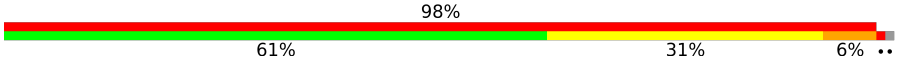
E241 L242 P243 D244 G245 Q246 Y247 I248 T249 I250 Q251 N252 E253 R254 F255 R256 C257 P258 E259 T260 L261 F262 Q263 P264 S265 F266 I267 G268 M269 E270 S271 A272 G273 I274 H275 E276 T277 T278 Y279 N280 S281 I282 M283 K284 C285 D286 I287 D288 I289 R290 K291 D292 L293 Y294 A295 N296 N297 V298 M299 S300

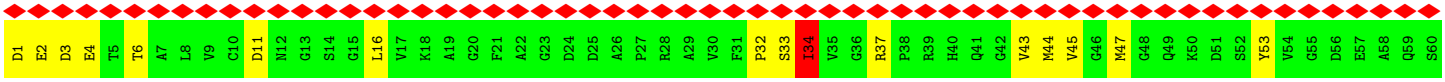
G301 G302 T303 T304 M305 Y306 P307 G308 I309 A310 D311 R312 M313 Q314 K315 E316 I317 T318 A319 L320 A321 P322 S323 T324 M325 K326 I327 K328 I329 I330 A331 P332 P333 E334 R335 K336 Y337 S338 V339 W340 I341 G342 G343 S344 I345 L346 A347 S348 L349 S350 T351 F352 Q353 Q354 M355 W356 I357 T358 K359 Q360

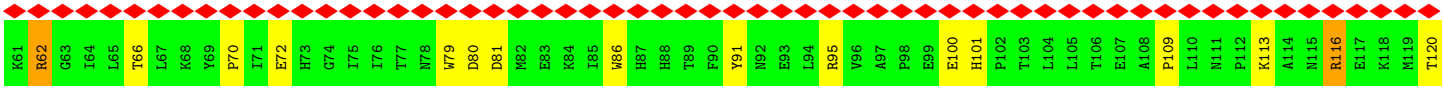


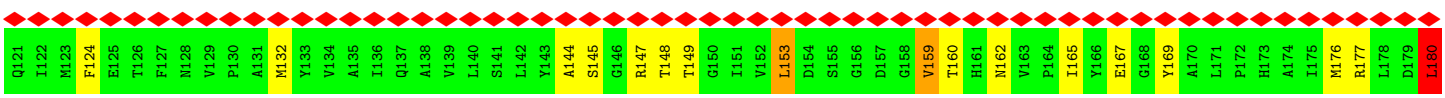
• Molecule 4: SKELETAL MUSCLE ACTIN

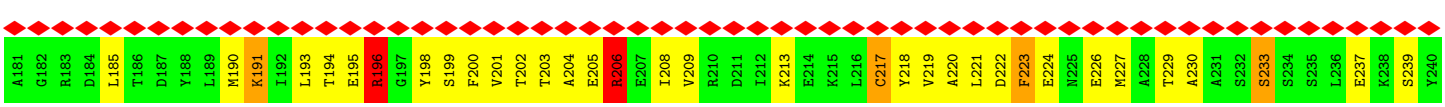
Chain 1:









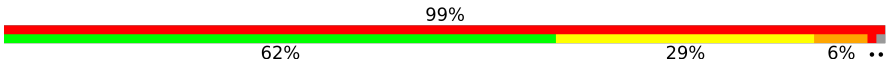


• Molecule 4: SKELETAL MUSCLE ACTIN

Chain 2:

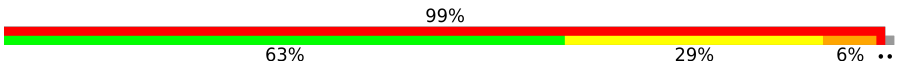
• Molecule 4: SKELETAL MUSCLE ACTIN

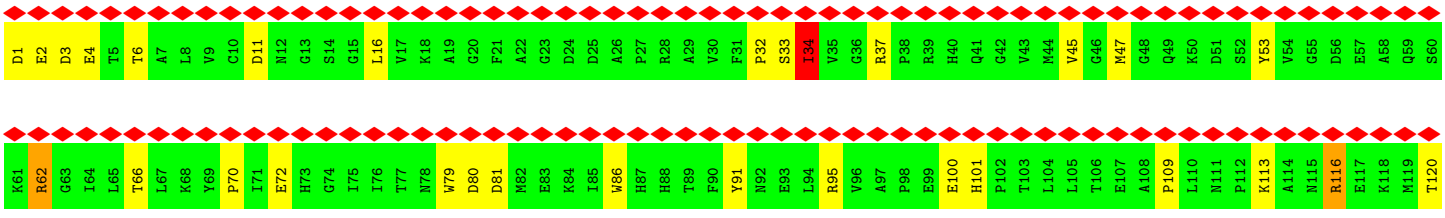
Chain 3:

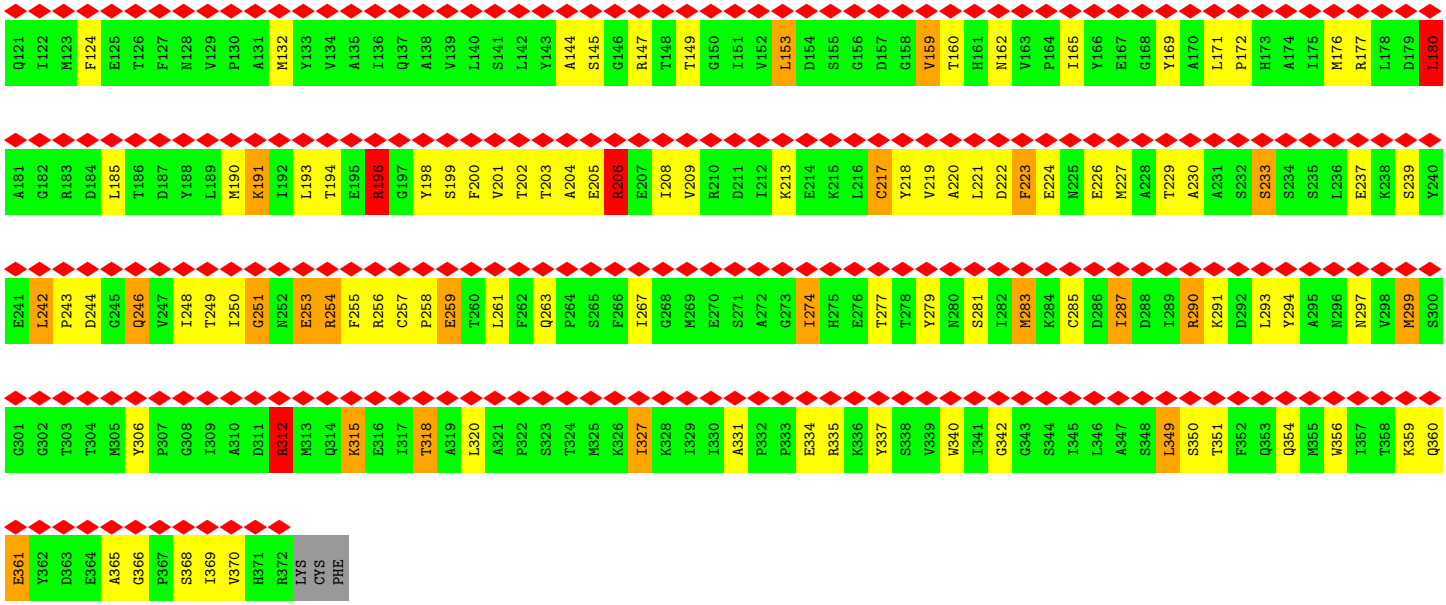


• Molecule 4: SKELETAL MUSCLE ACTIN

Chain 4:

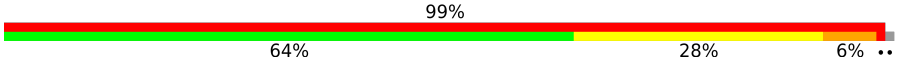


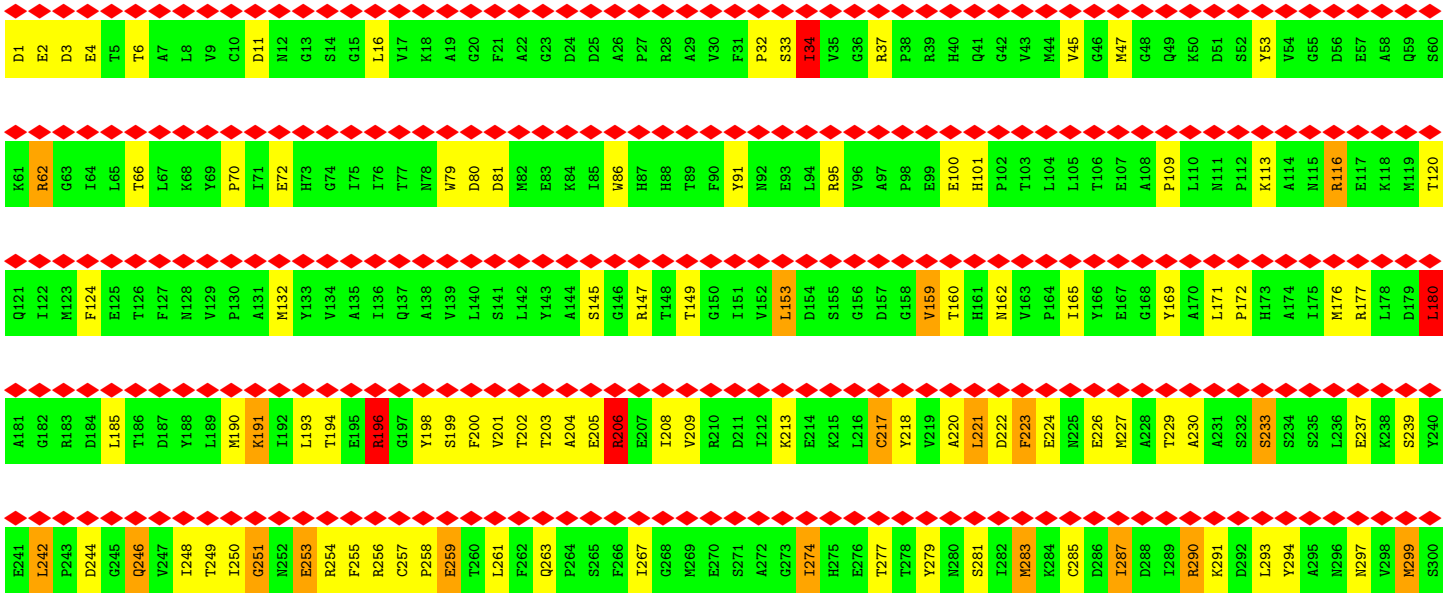




• Molecule 4: SKELETAL MUSCLE ACTIN

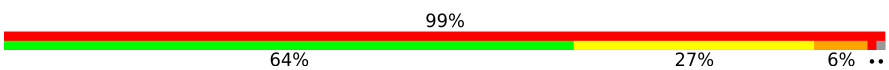
Chain 5:

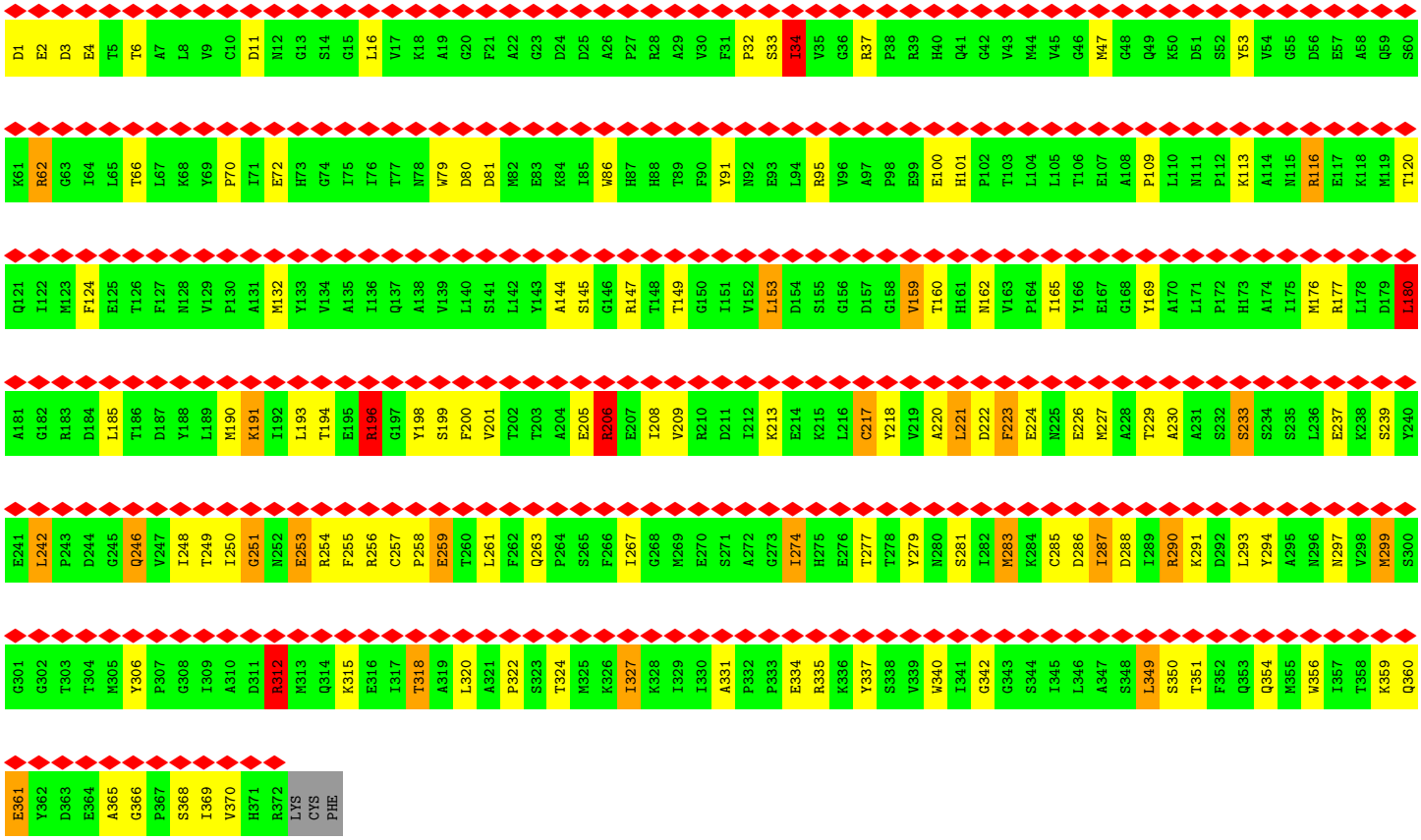




• Molecule 4: SKELETAL MUSCLE ACTIN

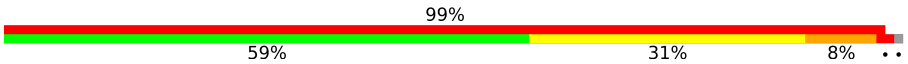
Chain 7:

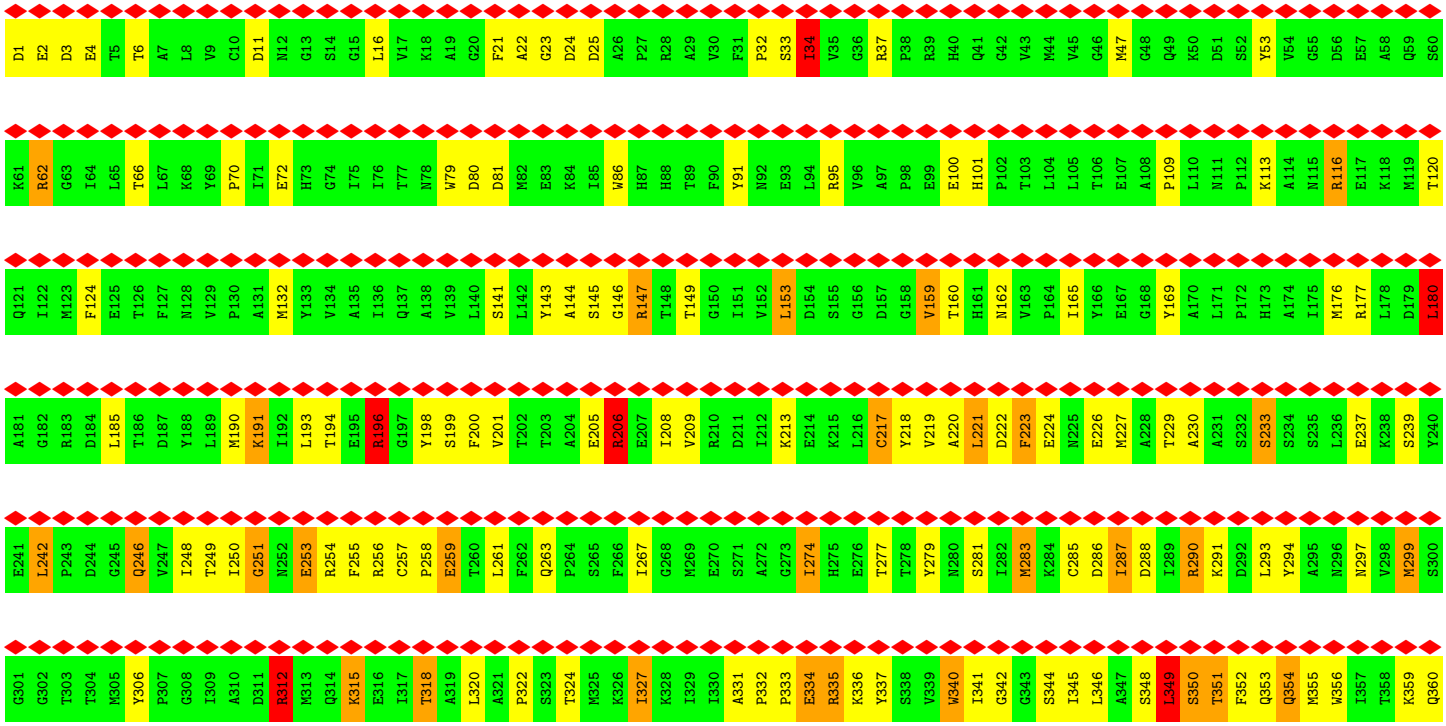


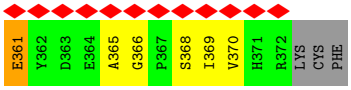


• Molecule 4: SKELETAL MUSCLE ACTIN

Chain 8:

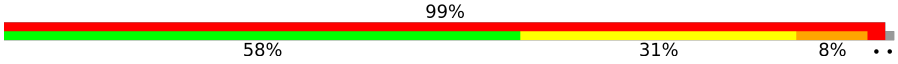


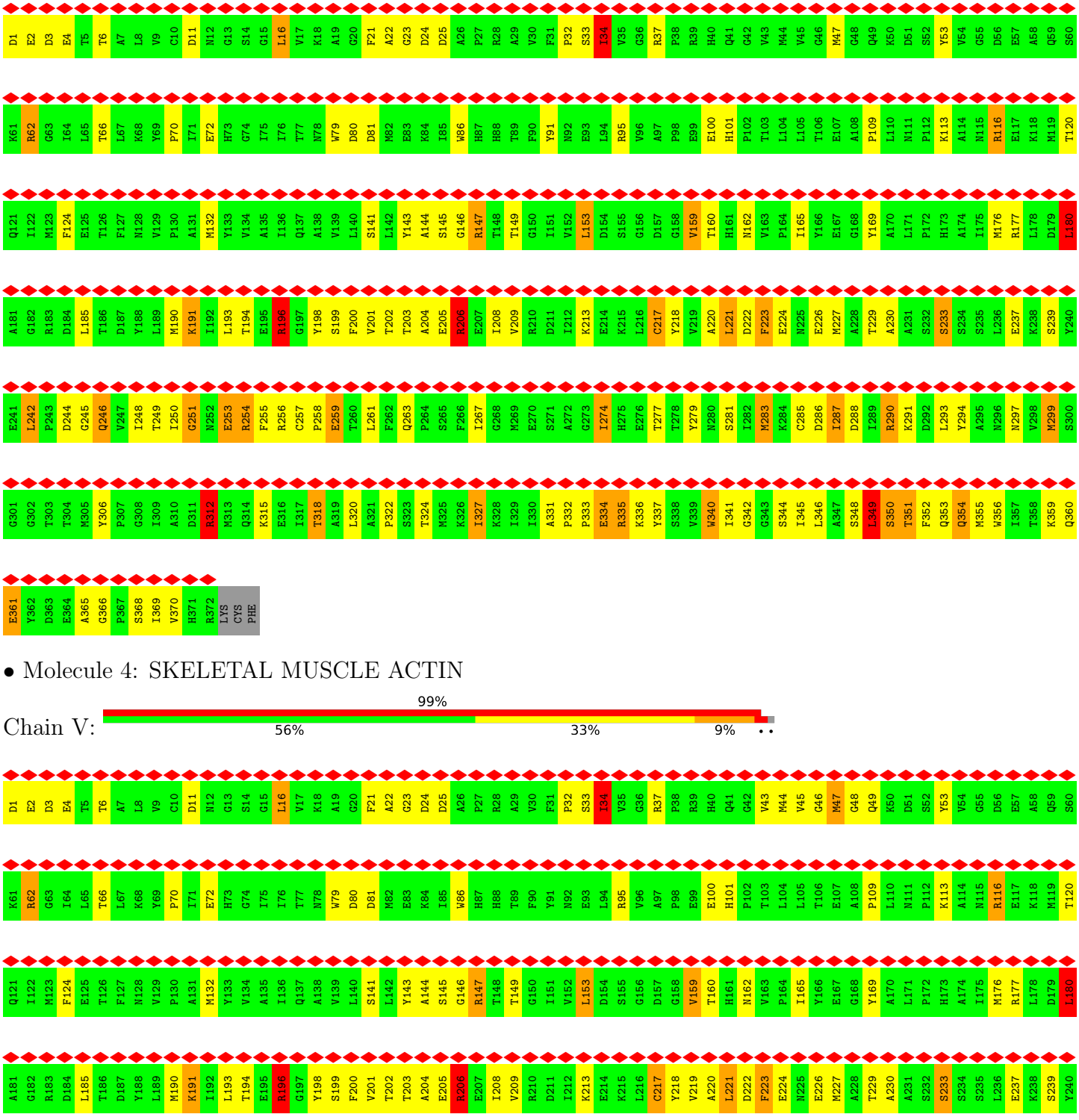




• Molecule 4: SKELETAL MUSCLE ACTIN

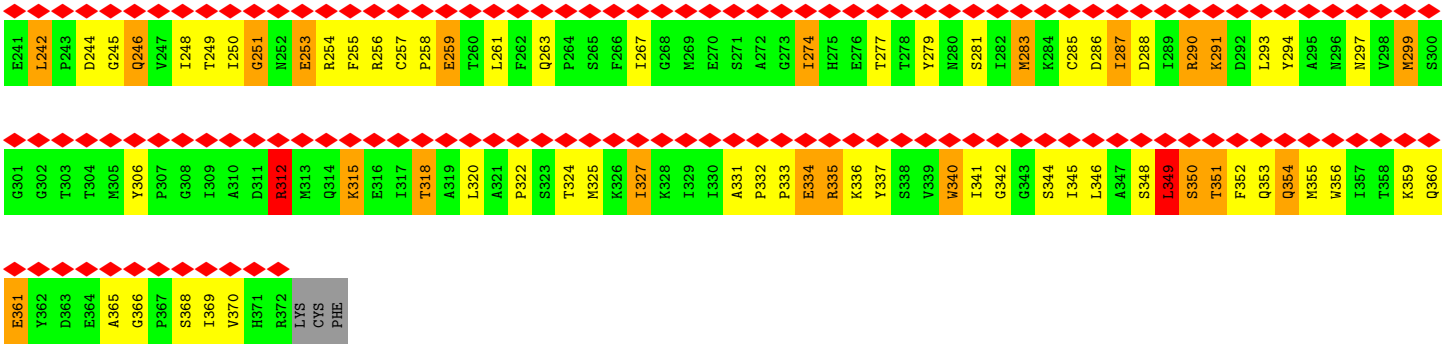
Chain 9:





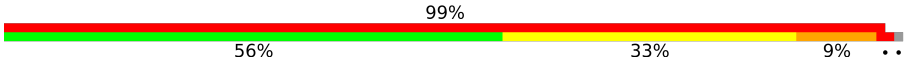
• Molecule 4: SKELETAL MUSCLE ACTIN

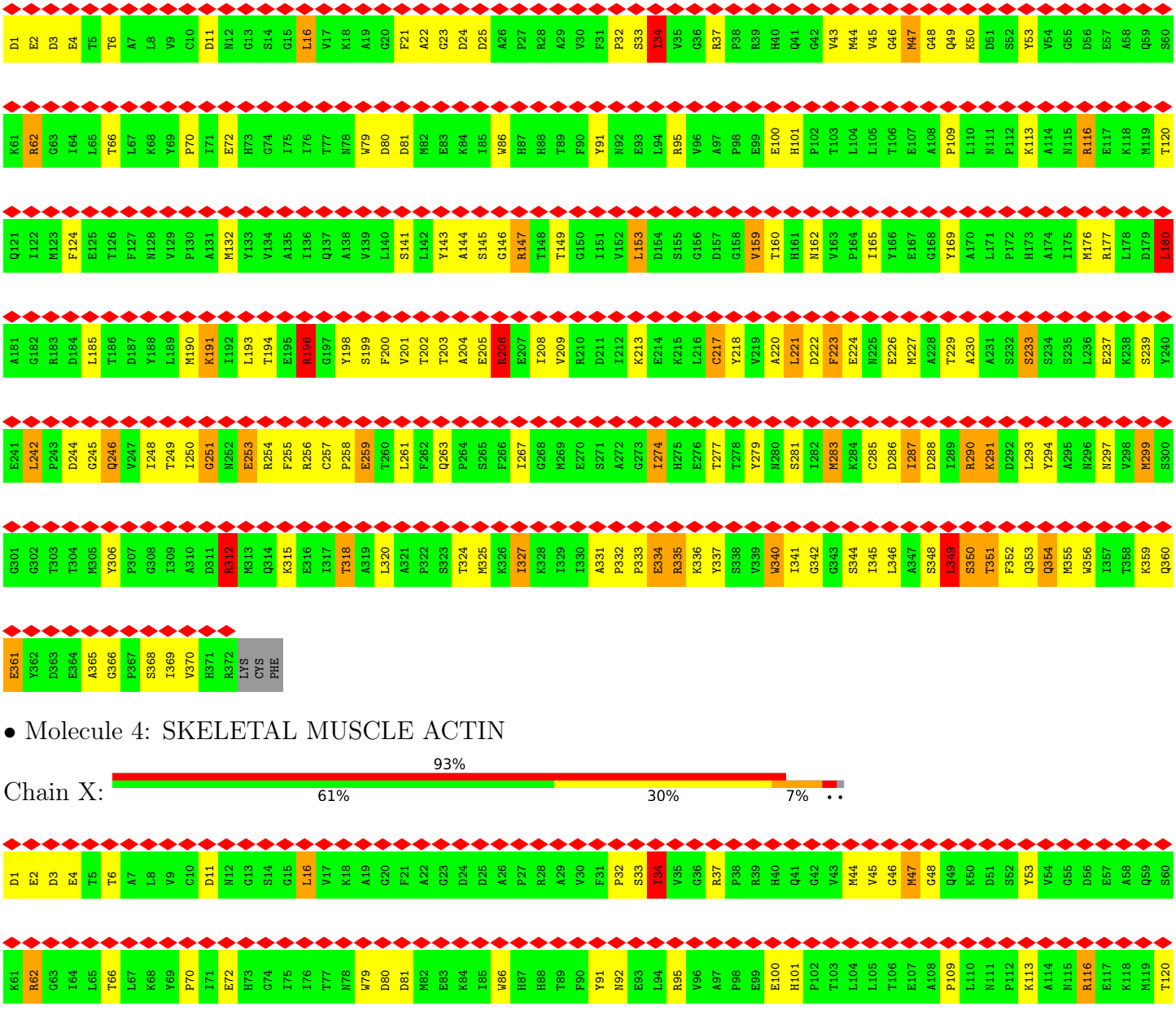
Chain V:



• Molecule 4: SKELETAL MUSCLE ACTIN

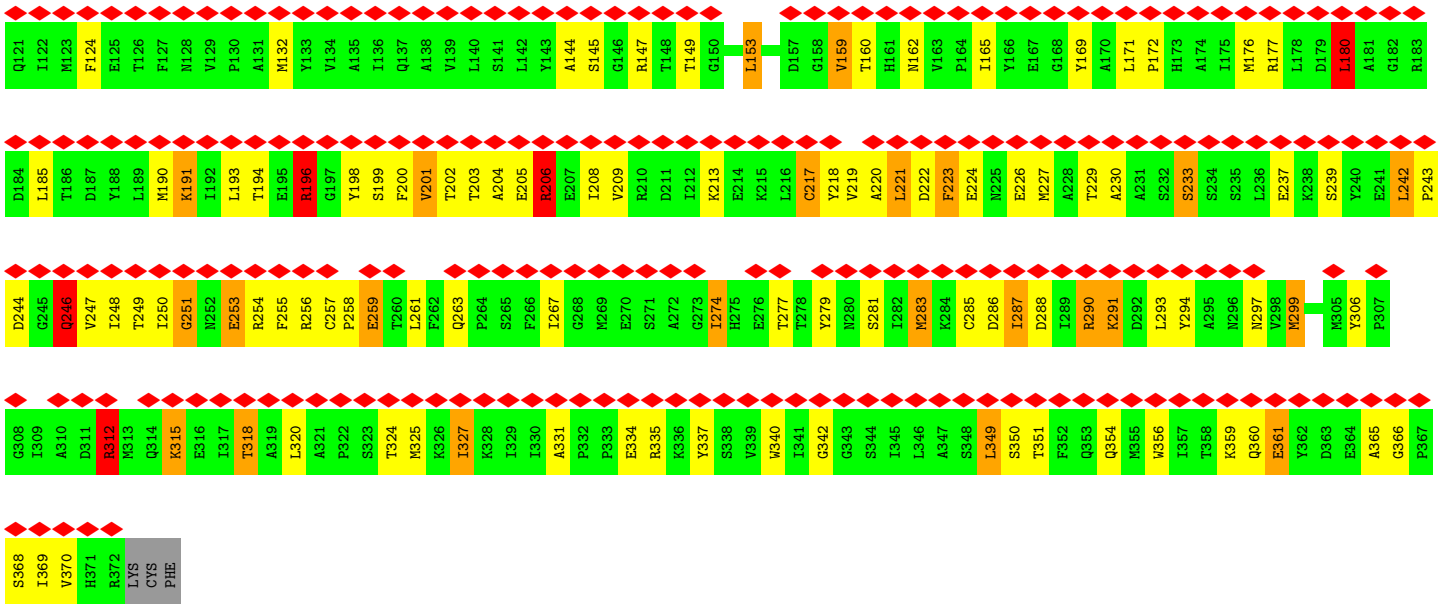
Chain W:





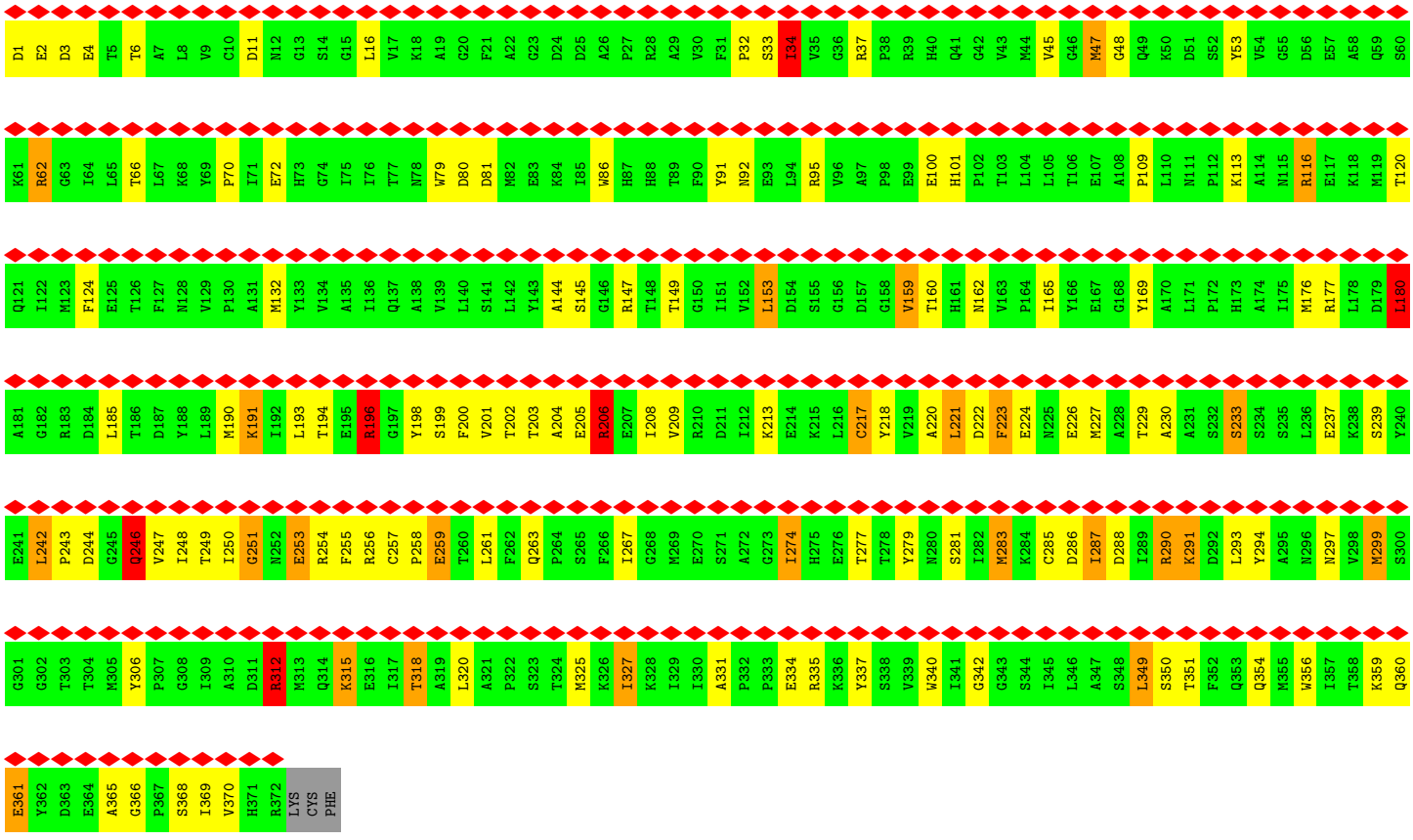
• Molecule 4: SKELETAL MUSCLE ACTIN

Chain X:



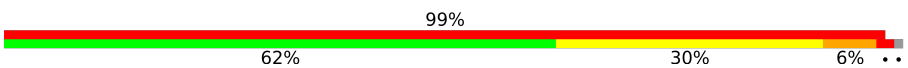
• Molecule 4: SKELETAL MUSCLE ACTIN

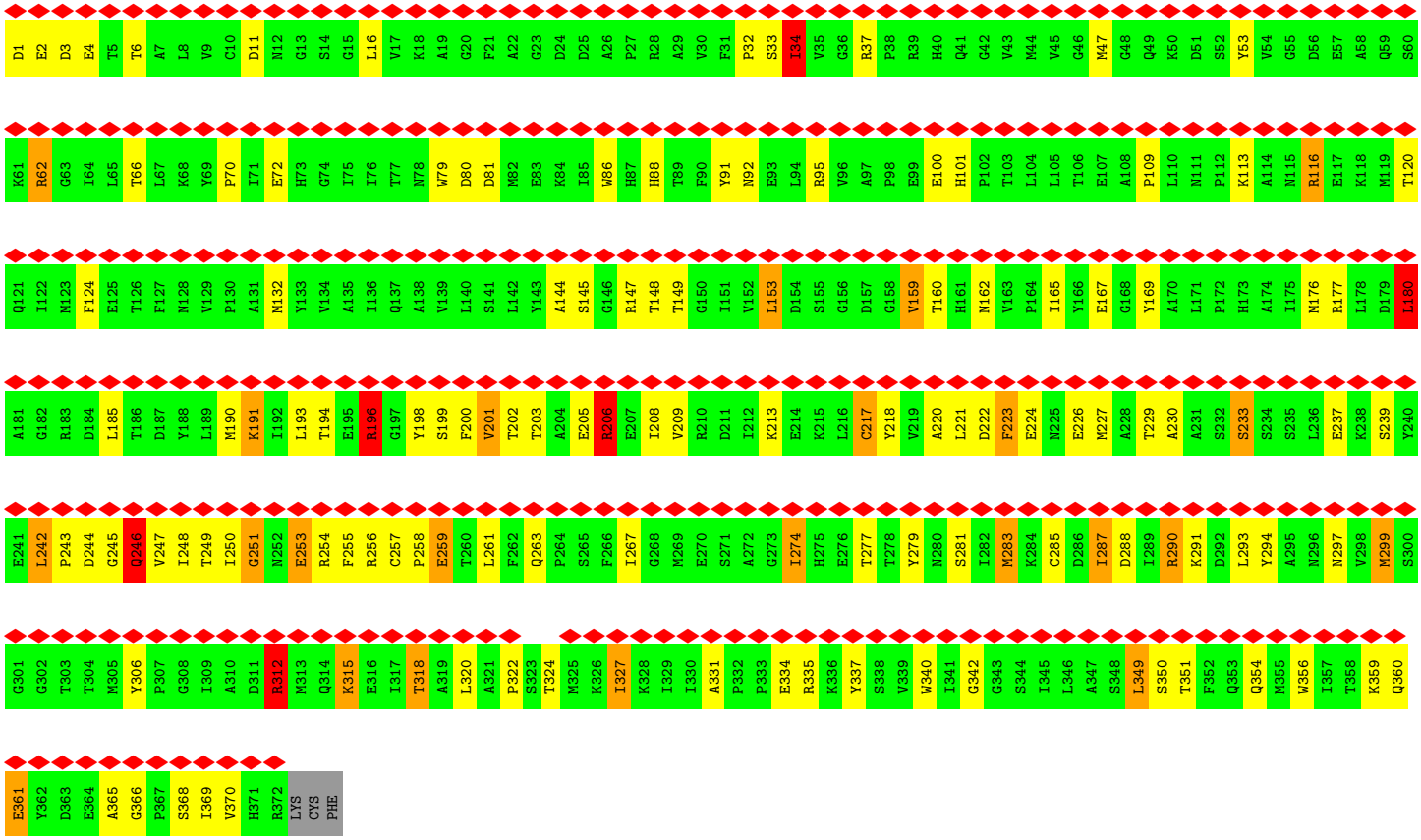
Chain Y:



• Molecule 4: SKELETAL MUSCLE ACTIN

Chain Z:




D1 E2 D3 E4 T5 T6 A7 L8 V9 C10 D11 N12 G13 S14 G15 L16 V17 K18 A19 G20 F21 A22 G23 D24 D25 A26 P27 R28 A29 V30 F31 P32 S33 I34 V35 G36 R37 P38 R39 H40 Q41 G42 V43 M44 V45 G46 M47 G48 Q49 K50 D51 S52 Y53 V54 G55 D56 E57 A58 Q59 S60
K61 R62 G63 I64 L65 T66 L67 K68 Y69 P70 I71 E72 H73 G74 I75 I76 T77 N78 W79 D80 D81 M82 E83 K84 I85 W86 H87 H88 T89 F90 Y91 N92 E93 L94 R95 V96 A97 P98 E99 E100 H101 P102 T103 L104 L105 T106 E107 A108 P109 L110 N111 P112 K113 A114 N115 R116 E117 K118 M119 T120
Q121 I122 M123 F124 E125 T126 F127 N128 V129 P130 A131 M132 Y133 V134 A135 I136 Q137 A138 V139 L140 S141 L142 Y143 A144 S145 G146 R147 T148 T149 G150 I151 V152 L153 D154 S155 G156 D157 G158 V159 T160 H161 N162 V163 P164 I165 Y166 E167 G168 Y169 A170 L171 P172 H173 A174 I175 M176 R177 L178 D179 L180
A181 G182 R183 D184 L185 T186 D187 Y188 L189 M190 K191 I192 L193 T194 E195 R196 G197 Y198 S199 F200 V201 T202 T203 A204 E205 R206 E207 I208 V209 R210 D211 I212 K213 E214 K215 L216 C217 Y218 V219 A220 L221 D222 F223 E224 N225 E226 M227 A228 T229 A230 A231 S232 S233 S234 S235 L236 E237 K238 S239 Y240
E241 L242 P243 D244 G245 Q246 V247 I248 T249 I250 G251 N252 E253 R254 F255 R256 C257 P258 E259 T260 L261 F262 Q263 P264 S265 F266 I267 G268 M269 E270 S271 A272 G273 I274 H275 E276 T277 T278 Y279 N280 S281 I282 M283 K284 C285 D286 I287 D288 I289 R290 K291 D292 L293 Y294 A295 N296 N297 V298 M299 S300
G301 G302 T303 T304 M305 Y306 P307 G308 I309 A310 D311 R312 M313 Q314 K315 E316 I317 T318 A319 L320 A321 P322 S323 T324 M325 K326 I327 K328 I329 I330 A331 P332 P333 E334 R335 K336 Y337 S338 V339 W340 I341 G342 G343 S344 I345 L346 A347 S348 L349 S350 T351 F352 Q353 Q354 M355 W356 I357 T358 K359 Q360
E361 Y362 D363 E364 A365 G366 P367 S368 I369 V370 H371 R372 LYS CYS PHE

4 Experimental information (i)

Property	Value	Source
EM reconstruction method	TOMOGRAPHY	Depositor
Imposed symmetry	POINT, C1	Depositor
Number of tilted images used	Not provided	
Resolution determination method	Not provided	
CTF correction method	Not provided	
Microscope	FEI/PHILIPS EM400	Depositor
Voltage (kV)	100	Depositor
Electron dose ($e^-/Å^2$)	Not provided	
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	17000	Depositor
Image detector	KODAK SO-163 FILM	Depositor
Maximum voxel value	366.680	Depositor
Minimum voxel value	-417.992	Depositor
Average voxel value	1.860	Depositor
Voxel value standard deviation	47.792	Depositor
Recommended contour level	81.2	Depositor
Tomogram size (Å)	9280, 9280, 464	wwPDB
Tomogram dimensions	600, 600, 30	wwPDB
Tomogram angles (°)	90, 90, 90	wwPDB
Grid spacing (Å)	15.4667, 15.4667, 15.4667	Depositor

5 Model quality (i)

5.1 Standard geometry (i)

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

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	1.77	67/6448 (1.0%)	1.82	116/8729 (1.3%)
1	D	1.77	64/6448 (1.0%)	1.82	115/8729 (1.3%)
1	G	1.77	66/6449 (1.0%)	1.83	119/8732 (1.4%)
1	J	1.77	66/6449 (1.0%)	1.86	118/8732 (1.4%)
1	P	1.81	66/6449 (1.0%)	1.90	127/8732 (1.5%)
2	B	1.22	10/1148 (0.9%)	1.61	16/1548 (1.0%)
2	E	1.22	10/1148 (0.9%)	1.62	16/1548 (1.0%)
2	H	1.22	10/1148 (0.9%)	1.62	17/1548 (1.1%)
2	K	1.22	10/1148 (0.9%)	1.61	16/1548 (1.0%)
2	Q	1.22	10/1148 (0.9%)	1.61	16/1548 (1.0%)
3	C	0.80	0/1136	0.95	4/1525 (0.3%)
3	F	0.80	0/1136	0.95	4/1525 (0.3%)
3	I	0.80	0/1136	0.95	4/1525 (0.3%)
3	L	0.79	0/1136	0.94	4/1525 (0.3%)
3	R	0.79	0/1136	0.95	4/1525 (0.3%)
4	0	0.89	2/2968 (0.1%)	1.64	52/4023 (1.3%)
4	1	0.89	2/2968 (0.1%)	1.64	52/4023 (1.3%)
4	2	0.89	2/2968 (0.1%)	1.64	52/4023 (1.3%)
4	3	0.89	2/2968 (0.1%)	1.64	52/4023 (1.3%)
4	4	0.89	2/2968 (0.1%)	1.64	51/4023 (1.3%)
4	5	0.89	2/2968 (0.1%)	1.64	51/4023 (1.3%)
4	7	0.89	1/2968 (0.0%)	1.64	51/4023 (1.3%)
4	8	0.89	2/2968 (0.1%)	1.64	52/4023 (1.3%)
4	9	0.89	1/2968 (0.0%)	1.64	52/4023 (1.3%)
4	V	0.89	2/2968 (0.1%)	1.64	50/4023 (1.2%)
4	W	0.89	2/2968 (0.1%)	1.64	52/4023 (1.3%)
4	X	0.89	1/2968 (0.0%)	1.64	51/4023 (1.3%)
4	Y	0.89	2/2968 (0.1%)	1.64	50/4023 (1.2%)
4	Z	0.89	2/2968 (0.1%)	1.64	51/4023 (1.3%)
All	All	1.31	404/85215 (0.5%)	1.68	1415/115341 (1.2%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	1	4
1	D	1	4
1	G	2	4
1	J	1	6
1	P	1	9
2	B	0	3
2	E	0	3
2	H	0	3
2	K	0	3
2	Q	0	3
3	C	0	2
3	F	0	2
3	I	0	2
3	L	0	2
3	R	0	2
4	0	0	1
4	1	0	1
4	2	0	1
4	3	0	1
4	4	0	1
4	5	0	1
4	7	0	1
4	8	0	1
4	9	0	1
4	V	0	1
4	W	0	1
4	X	0	1
4	Y	0	1
4	Z	0	1
All	All	6	66

All (404) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	P	649	VAL	CB-CG1	53.27	2.64	1.52
1	J	649	VAL	CB-CG1	53.25	2.64	1.52
1	A	649	VAL	CB-CG1	53.23	2.64	1.52
1	G	649	VAL	CB-CG1	53.20	2.64	1.52
1	D	649	VAL	CB-CG1	53.20	2.64	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D	623	PHE	CB-CG	48.12	2.33	1.51
1	J	623	PHE	CB-CG	48.11	2.33	1.51
1	A	623	PHE	CB-CG	48.10	2.33	1.51
1	P	623	PHE	CB-CG	48.10	2.33	1.51
1	G	623	PHE	CB-CG	48.05	2.33	1.51
1	A	649	VAL	CB-CG2	46.30	2.50	1.52
1	G	649	VAL	CB-CG2	46.18	2.49	1.52
1	P	649	VAL	CB-CG2	46.17	2.49	1.52
1	J	649	VAL	CB-CG2	46.15	2.49	1.52
1	D	649	VAL	CB-CG2	46.11	2.49	1.52
1	D	648	THR	CB-OG1	34.36	2.12	1.43
1	P	648	THR	CB-OG1	34.34	2.12	1.43
1	J	648	THR	CB-OG1	34.34	2.12	1.43
1	G	648	THR	CB-OG1	34.33	2.12	1.43
1	A	648	THR	CB-OG1	34.32	2.11	1.43
1	J	648	THR	CB-CG2	-30.70	0.51	1.52
1	P	648	THR	CB-CG2	-30.70	0.51	1.52
1	A	648	THR	CB-CG2	-30.70	0.51	1.52
1	D	648	THR	CB-CG2	-30.67	0.51	1.52
1	G	648	THR	CB-CG2	-30.65	0.51	1.52
1	P	769	ALA	C-N	-24.62	0.88	1.33
1	P	806	MET	C-N	-17.52	0.93	1.34
1	D	637	LYS	C-N	-15.12	1.05	1.33
1	P	637	LYS	C-N	-15.06	1.05	1.33
1	J	637	LYS	C-N	-14.99	1.06	1.33
1	G	637	LYS	C-N	-14.86	1.06	1.33
1	A	637	LYS	C-N	-14.76	1.06	1.33
1	A	649	VAL	C-N	-13.58	1.02	1.34
1	G	649	VAL	C-N	-13.52	1.02	1.34
1	D	649	VAL	C-N	-13.48	1.03	1.34
1	P	649	VAL	C-N	-13.43	1.03	1.34
2	Q	150	TYR	CB-CG	-13.41	1.31	1.51
1	J	649	VAL	C-N	-13.39	1.03	1.34
2	H	150	TYR	CB-CG	-13.39	1.31	1.51
2	E	150	TYR	CB-CG	-13.32	1.31	1.51
2	K	150	TYR	CB-CG	-13.32	1.31	1.51
2	B	150	TYR	CB-CG	-13.22	1.31	1.51
2	B	140	PHE	C-N	-12.98	1.09	1.34
2	E	140	PHE	C-N	-12.97	1.09	1.34
2	Q	140	PHE	C-N	-12.89	1.09	1.34
2	K	140	PHE	C-N	-12.89	1.09	1.34
2	H	140	PHE	C-N	-12.85	1.09	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	150	TYR	CG-CD2	-11.43	1.24	1.39
2	Q	150	TYR	CG-CD2	-11.38	1.24	1.39
2	H	150	TYR	CG-CD2	-11.24	1.24	1.39
2	K	150	TYR	CG-CD2	-11.24	1.24	1.39
2	E	150	TYR	CG-CD2	-11.16	1.24	1.39
2	K	141	PRO	N-CD	-10.63	1.32	1.47
2	E	141	PRO	N-CD	-10.53	1.33	1.47
2	B	141	PRO	N-CD	-10.48	1.33	1.47
2	Q	141	PRO	N-CD	-10.45	1.33	1.47
2	H	141	PRO	N-CD	-10.36	1.33	1.47
1	P	476	GLU	CD-OE1	8.88	1.35	1.25
1	J	476	GLU	CD-OE1	8.86	1.35	1.25
1	D	476	GLU	CD-OE1	8.81	1.35	1.25
1	J	785	GLU	C-N	8.79	1.54	1.34
1	G	476	GLU	CD-OE1	8.76	1.35	1.25
1	A	622	LEU	C-N	8.71	1.54	1.34
1	J	622	LEU	C-N	8.69	1.54	1.34
1	P	622	LEU	C-N	8.65	1.53	1.34
1	A	476	GLU	CD-OE1	8.64	1.35	1.25
1	D	622	LEU	C-N	8.63	1.53	1.34
1	G	622	LEU	C-N	8.62	1.53	1.34
1	G	411	GLU	CD-OE1	8.36	1.34	1.25
1	J	745	GLU	CD-OE2	8.30	1.34	1.25
1	P	745	GLU	CD-OE2	8.28	1.34	1.25
2	B	150	TYR	CA-CB	-8.26	1.35	1.53
2	K	150	TYR	CA-CB	-8.25	1.35	1.53
1	J	411	GLU	CD-OE1	8.21	1.34	1.25
1	D	745	GLU	CD-OE2	8.20	1.34	1.25
2	H	150	TYR	CA-CB	-8.19	1.35	1.53
1	D	411	GLU	CD-OE1	8.19	1.34	1.25
1	A	745	GLU	CD-OE2	8.18	1.34	1.25
1	P	411	GLU	CD-OE1	8.17	1.34	1.25
1	A	411	GLU	CD-OE1	8.15	1.34	1.25
2	Q	150	TYR	CA-CB	-8.14	1.36	1.53
1	G	745	GLU	CD-OE2	8.12	1.34	1.25
2	E	150	TYR	CA-CB	-8.09	1.36	1.53
1	A	381	GLU	CD-OE1	8.01	1.34	1.25
1	P	108	GLU	CD-OE1	7.93	1.34	1.25
1	G	108	GLU	CD-OE1	7.92	1.34	1.25
1	P	381	GLU	CD-OE1	7.87	1.34	1.25
1	J	108	GLU	CD-OE1	7.84	1.34	1.25
1	P	202	SER	CB-OG	7.83	1.52	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	108	GLU	CD-OE1	7.82	1.34	1.25
1	G	381	GLU	CD-OE1	7.82	1.34	1.25
1	D	202	SER	CB-OG	7.81	1.52	1.42
1	J	381	GLU	CD-OE1	7.81	1.34	1.25
1	D	381	GLU	CD-OE1	7.79	1.34	1.25
1	J	202	SER	CB-OG	7.73	1.52	1.42
1	G	202	SER	CB-OG	7.71	1.52	1.42
1	A	202	SER	CB-OG	7.69	1.52	1.42
1	D	108	GLU	CD-OE1	7.54	1.33	1.25
1	D	689	GLU	CD-OE2	7.52	1.33	1.25
1	P	689	GLU	CD-OE2	7.47	1.33	1.25
1	A	689	GLU	CD-OE2	7.42	1.33	1.25
1	G	689	GLU	CD-OE2	7.40	1.33	1.25
1	J	689	GLU	CD-OE2	7.39	1.33	1.25
1	A	347	GLU	CD-OE1	7.30	1.33	1.25
1	J	347	GLU	CD-OE1	7.28	1.33	1.25
1	P	347	GLU	CD-OE1	7.28	1.33	1.25
1	D	23	GLU	CD-OE1	7.26	1.33	1.25
1	J	23	GLU	CD-OE1	7.25	1.33	1.25
1	P	23	GLU	CD-OE1	7.24	1.33	1.25
1	G	347	GLU	CD-OE1	7.22	1.33	1.25
1	A	23	GLU	CD-OE1	7.21	1.33	1.25
1	G	23	GLU	CD-OE1	7.17	1.33	1.25
1	D	347	GLU	CD-OE1	7.15	1.33	1.25
1	J	511	GLU	CD-OE1	7.13	1.33	1.25
1	P	511	GLU	CD-OE1	7.09	1.33	1.25
1	A	511	GLU	CD-OE1	7.08	1.33	1.25
1	G	68	GLU	CD-OE2	7.03	1.33	1.25
1	A	376	GLU	CD-OE1	7.03	1.33	1.25
1	D	524	GLU	CD-OE1	7.02	1.33	1.25
1	D	68	GLU	CD-OE2	7.02	1.33	1.25
1	G	330	GLU	CD-OE1	7.00	1.33	1.25
1	G	26	GLU	CD-OE1	6.99	1.33	1.25
1	P	330	GLU	CD-OE1	6.98	1.33	1.25
1	D	376	GLU	CD-OE1	6.97	1.33	1.25
1	J	524	GLU	CD-OE1	6.96	1.33	1.25
1	J	330	GLU	CD-OE1	6.96	1.33	1.25
1	P	524	GLU	CD-OE1	6.96	1.33	1.25
1	D	511	GLU	CD-OE1	6.95	1.33	1.25
1	G	376	GLU	CD-OE1	6.94	1.33	1.25
1	D	26	GLU	CD-OE1	6.93	1.33	1.25
1	P	811	GLU	CD-OE1	6.92	1.33	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	68	GLU	CD-OE2	6.89	1.33	1.25
1	P	68	GLU	CD-OE2	6.89	1.33	1.25
1	G	524	GLU	CD-OE1	6.87	1.33	1.25
1	J	811	GLU	CD-OE1	6.85	1.33	1.25
1	J	26	GLU	CD-OE1	6.85	1.33	1.25
1	P	376	GLU	CD-OE1	6.85	1.33	1.25
1	A	330	GLU	CD-OE1	6.84	1.33	1.25
1	J	376	GLU	CD-OE1	6.84	1.33	1.25
1	A	524	GLU	CD-OE1	6.83	1.33	1.25
1	D	330	GLU	CD-OE1	6.83	1.33	1.25
1	G	511	GLU	CD-OE1	6.82	1.33	1.25
1	P	26	GLU	CD-OE1	6.82	1.33	1.25
1	A	26	GLU	CD-OE1	6.82	1.33	1.25
1	A	655	GLU	CD-OE1	6.79	1.33	1.25
1	J	68	GLU	CD-OE2	6.78	1.33	1.25
1	D	811	GLU	CD-OE1	6.78	1.33	1.25
1	J	319	GLU	CD-OE1	6.71	1.33	1.25
1	J	538	GLU	CD-OE1	6.70	1.33	1.25
1	P	538	GLU	CD-OE1	6.69	1.33	1.25
1	P	319	GLU	CD-OE1	6.68	1.32	1.25
1	J	655	GLU	CD-OE1	6.67	1.32	1.25
1	A	811	GLU	CD-OE1	6.67	1.32	1.25
1	P	655	GLU	CD-OE1	6.63	1.32	1.25
1	G	811	GLU	CD-OE1	6.62	1.32	1.25
1	A	266	GLU	CD-OE2	6.61	1.32	1.25
1	G	785	GLU	C-N	6.61	1.49	1.34
1	A	538	GLU	CD-OE1	6.60	1.32	1.25
1	P	266	GLU	CD-OE2	6.60	1.32	1.25
1	G	655	GLU	CD-OE1	6.59	1.32	1.25
1	G	538	GLU	CD-OE1	6.59	1.32	1.25
1	G	319	GLU	CD-OE1	6.57	1.32	1.25
2	Q	150	TYR	CD2-CE2	-6.54	1.29	1.39
2	B	150	TYR	CD2-CE2	-6.52	1.29	1.39
1	D	655	GLU	CD-OE1	6.51	1.32	1.25
2	E	150	TYR	CD2-CE2	-6.50	1.29	1.39
1	D	538	GLU	CD-OE2	-6.50	1.18	1.25
1	G	89	GLU	CD-OE1	6.50	1.32	1.25
1	D	538	GLU	CD-OE1	6.49	1.32	1.25
1	J	266	GLU	CD-OE2	6.49	1.32	1.25
1	D	319	GLU	CD-OE1	6.48	1.32	1.25
1	J	538	GLU	CD-OE2	-6.48	1.18	1.25
1	D	266	GLU	CD-OE2	6.47	1.32	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	89	GLU	CD-OE1	6.43	1.32	1.25
1	D	99	GLU	CD-OE2	6.42	1.32	1.25
1	G	99	GLU	CD-OE2	6.42	1.32	1.25
2	K	150	TYR	CD2-CE2	-6.42	1.29	1.39
1	P	808	GLU	CD-OE1	6.42	1.32	1.25
1	J	89	GLU	CD-OE1	6.42	1.32	1.25
1	A	538	GLU	CD-OE2	-6.40	1.18	1.25
1	A	319	GLU	CD-OE1	6.39	1.32	1.25
1	G	502	GLU	CD-OE2	6.39	1.32	1.25
1	G	605	GLU	CD-OE1	6.38	1.32	1.25
1	J	808	GLU	CD-OE1	6.38	1.32	1.25
1	G	266	GLU	CD-OE2	6.38	1.32	1.25
1	D	89	GLU	CD-OE1	6.37	1.32	1.25
1	G	808	GLU	CD-OE1	6.37	1.32	1.25
1	D	6	GLU	CD-OE1	6.37	1.32	1.25
1	G	538	GLU	CD-OE2	-6.36	1.18	1.25
1	P	538	GLU	CD-OE2	-6.36	1.18	1.25
1	J	99	GLU	CD-OE2	6.34	1.32	1.25
1	A	808	GLU	CD-OE1	6.34	1.32	1.25
4	3	259	GLU	CG-CD	6.34	1.61	1.51
1	A	605	GLU	CD-OE1	6.33	1.32	1.25
2	K	150	TYR	N-CA	-6.32	1.33	1.46
1	P	6	GLU	CD-OE1	6.32	1.32	1.25
1	G	802	GLU	CD-OE1	6.32	1.32	1.25
1	D	502	GLU	CD-OE2	6.31	1.32	1.25
2	B	150	TYR	N-CA	-6.31	1.33	1.46
1	J	6	GLU	CD-OE1	6.30	1.32	1.25
1	P	89	GLU	CD-OE1	6.30	1.32	1.25
1	A	99	GLU	CD-OE2	6.29	1.32	1.25
1	D	808	GLU	CD-OE1	6.29	1.32	1.25
1	P	99	GLU	CD-OE2	6.28	1.32	1.25
2	H	150	TYR	CD2-CE2	-6.28	1.29	1.39
1	P	605	GLU	CD-OE1	6.27	1.32	1.25
1	P	502	GLU	CD-OE2	6.26	1.32	1.25
4	2	259	GLU	CG-CD	6.26	1.61	1.51
4	4	259	GLU	CG-CD	6.25	1.61	1.51
4	9	259	GLU	CG-CD	6.24	1.61	1.51
4	8	259	GLU	CG-CD	6.23	1.61	1.51
4	Z	259	GLU	CG-CD	6.22	1.61	1.51
4	5	259	GLU	CG-CD	6.22	1.61	1.51
4	W	259	GLU	CG-CD	6.22	1.61	1.51
1	A	6	GLU	CD-OE1	6.21	1.32	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	502	GLU	CD-OE2	6.21	1.32	1.25
2	Q	150	TYR	N-CA	-6.21	1.33	1.46
4	1	259	GLU	CG-CD	6.21	1.61	1.51
1	J	605	GLU	CD-OE1	6.21	1.32	1.25
2	H	150	TYR	N-CA	-6.20	1.33	1.46
1	J	802	GLU	CD-OE1	6.20	1.32	1.25
4	0	259	GLU	CG-CD	6.20	1.61	1.51
1	J	329	GLU	CD-OE1	6.20	1.32	1.25
1	D	605	GLU	CD-OE1	6.20	1.32	1.25
1	J	502	GLU	CD-OE2	6.20	1.32	1.25
4	V	259	GLU	CG-CD	6.20	1.61	1.51
4	X	259	GLU	CG-CD	6.20	1.61	1.51
2	E	150	TYR	N-CA	-6.19	1.33	1.46
1	P	509	GLU	CD-OE1	6.19	1.32	1.25
1	G	6	GLU	CD-OE1	6.18	1.32	1.25
4	7	259	GLU	CG-CD	6.16	1.61	1.51
1	A	509	GLU	CD-OE1	6.14	1.32	1.25
4	Y	259	GLU	CG-CD	6.14	1.61	1.51
1	G	509	GLU	CD-OE1	6.13	1.32	1.25
1	D	802	GLU	CD-OE1	6.09	1.32	1.25
1	P	802	GLU	CD-OE1	6.07	1.32	1.25
1	J	509	GLU	CD-OE1	6.06	1.32	1.25
1	P	329	GLU	CD-OE1	6.05	1.32	1.25
1	A	417	GLU	CD-OE1	6.05	1.32	1.25
1	D	329	GLU	CD-OE1	6.04	1.32	1.25
1	G	476	GLU	CD-OE2	-6.03	1.19	1.25
1	G	329	GLU	CD-OE1	6.00	1.32	1.25
1	D	509	GLU	CD-OE1	5.99	1.32	1.25
1	D	417	GLU	CD-OE1	5.97	1.32	1.25
1	A	329	GLU	CD-OE1	5.96	1.32	1.25
1	G	540	CYS	CB-SG	-5.96	1.72	1.81
1	A	802	GLU	CD-OE1	5.93	1.32	1.25
1	P	230	GLU	CD-OE2	5.91	1.32	1.25
1	P	540	CYS	CB-SG	-5.87	1.72	1.81
1	J	540	CYS	CB-SG	-5.87	1.72	1.81
1	J	417	GLU	CD-OE1	5.86	1.32	1.25
1	G	417	GLU	CD-OE1	5.85	1.32	1.25
1	J	468	GLU	CD-OE1	5.85	1.32	1.25
1	P	476	GLU	CD-OE2	-5.84	1.19	1.25
1	D	468	GLU	CD-OE1	5.82	1.32	1.25
1	J	230	GLU	CD-OE2	5.82	1.32	1.25
1	P	417	GLU	CD-OE1	5.81	1.32	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	230	GLU	CD-OE2	5.80	1.32	1.25
1	D	230	GLU	CD-OE2	5.79	1.32	1.25
1	J	499	GLU	CD-OE2	5.79	1.32	1.25
1	A	468	GLU	CD-OE1	5.79	1.32	1.25
1	J	527	GLU	CD-OE1	5.78	1.32	1.25
1	D	540	CYS	CB-SG	-5.78	1.72	1.81
1	P	499	GLU	CD-OE2	5.78	1.32	1.25
1	D	476	GLU	CD-OE2	-5.78	1.19	1.25
1	J	476	GLU	CD-OE2	-5.77	1.19	1.25
1	G	218	LEU	CB-CG	5.77	1.69	1.52
1	P	527	GLU	CD-OE1	5.76	1.31	1.25
1	A	476	GLU	CD-OE2	-5.75	1.19	1.25
1	G	230	GLU	CD-OE2	5.75	1.31	1.25
1	G	597	GLU	CD-OE1	5.75	1.31	1.25
1	G	74	GLU	CD-OE2	5.75	1.31	1.25
1	P	468	GLU	CD-OE1	5.75	1.31	1.25
1	A	74	GLU	CD-OE2	5.74	1.31	1.25
1	P	785	GLU	CD-OE2	5.74	1.31	1.25
1	D	687	GLU	CD-OE1	5.74	1.31	1.25
1	A	540	CYS	CB-SG	-5.73	1.72	1.81
1	A	785	GLU	CD-OE2	5.71	1.31	1.25
1	D	597	GLU	CD-OE1	5.71	1.31	1.25
1	G	527	GLU	CD-OE1	5.70	1.31	1.25
1	J	74	GLU	CD-OE2	5.70	1.31	1.25
1	P	421	GLU	CD-OE2	5.70	1.31	1.25
1	A	625	THR	CB-CG2	5.70	1.71	1.52
1	G	625	THR	CB-CG2	5.69	1.71	1.52
1	J	421	GLU	CD-OE2	5.69	1.31	1.25
1	P	74	GLU	CD-OE2	5.69	1.31	1.25
1	P	597	GLU	CD-OE1	5.69	1.31	1.25
1	D	785	GLU	CD-OE2	5.68	1.31	1.25
1	J	785	GLU	CD-OE2	5.68	1.31	1.25
1	P	625	THR	CB-CG2	5.68	1.71	1.52
1	A	527	GLU	CD-OE1	5.67	1.31	1.25
1	J	625	THR	CB-CG2	5.67	1.71	1.52
1	J	218	LEU	CB-CG	5.67	1.69	1.52
1	D	625	THR	CB-CG2	5.67	1.71	1.52
1	P	218	LEU	CB-CG	5.66	1.69	1.52
1	A	421	GLU	CD-OE2	5.66	1.31	1.25
1	D	499	GLU	CD-OE2	5.65	1.31	1.25
1	A	218	LEU	CB-CG	5.65	1.69	1.52
1	D	74	GLU	CD-OE2	5.65	1.31	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	G	785	GLU	CD-OE2	5.64	1.31	1.25
1	D	218	LEU	CB-CG	5.63	1.68	1.52
1	A	597	GLU	CD-OE1	5.63	1.31	1.25
1	G	687	GLU	CD-OE1	5.59	1.31	1.25
2	H	150	TYR	CE1-CZ	5.58	1.45	1.38
1	A	687	GLU	CD-OE1	5.57	1.31	1.25
1	P	687	GLU	CD-OE1	5.56	1.31	1.25
1	G	468	GLU	CD-OE1	5.54	1.31	1.25
1	A	499	GLU	CD-OE2	5.52	1.31	1.25
1	J	373	GLU	CD-OE1	5.52	1.31	1.25
1	G	421	GLU	CD-OE2	5.52	1.31	1.25
1	G	373	GLU	CD-OE1	5.51	1.31	1.25
1	J	687	GLU	CD-OE1	5.50	1.31	1.25
1	P	373	GLU	CD-OE1	5.50	1.31	1.25
1	J	597	GLU	CD-OE1	5.49	1.31	1.25
1	D	373	GLU	CD-OE1	5.48	1.31	1.25
1	G	298	GLU	CD-OE2	5.47	1.31	1.25
1	A	777	GLU	CD-OE2	5.47	1.31	1.25
2	Q	150	TYR	CE1-CZ	5.47	1.45	1.38
1	P	777	GLU	CD-OE2	5.47	1.31	1.25
1	G	499	GLU	CD-OE2	5.47	1.31	1.25
1	A	479	CYS	CB-SG	-5.46	1.73	1.81
1	A	506	GLU	CD-OE2	5.46	1.31	1.25
1	D	777	GLU	CD-OE2	5.44	1.31	1.25
1	D	527	GLU	CD-OE1	5.43	1.31	1.25
2	E	150	TYR	CE1-CZ	5.43	1.45	1.38
2	B	150	TYR	CE1-CZ	5.42	1.45	1.38
1	D	421	GLU	CD-OE2	5.41	1.31	1.25
1	G	777	GLU	CD-OE2	5.41	1.31	1.25
1	D	218	LEU	C-N	-5.41	1.21	1.34
1	A	373	GLU	CD-OE1	5.40	1.31	1.25
2	Q	131	GLU	N-CA	5.39	1.57	1.46
1	J	479	CYS	CB-SG	-5.39	1.73	1.81
1	P	298	GLU	CD-OE2	5.37	1.31	1.25
1	J	298	GLU	CD-OE2	5.37	1.31	1.25
1	J	777	GLU	CD-OE2	5.36	1.31	1.25
1	P	479	CYS	CB-SG	-5.36	1.73	1.81
1	A	218	LEU	C-N	-5.36	1.21	1.34
1	G	479	CYS	CB-SG	-5.36	1.73	1.81
2	K	131	GLU	N-CA	5.36	1.57	1.46
1	P	218	LEU	C-N	-5.35	1.21	1.34
2	K	150	TYR	CE1-CZ	5.35	1.45	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	J	218	LEU	C-N	-5.35	1.21	1.34
2	H	131	GLU	N-CA	5.34	1.57	1.46
1	G	506	GLU	CD-OE2	5.34	1.31	1.25
2	B	131	GLU	N-CA	5.33	1.57	1.46
2	E	131	GLU	N-CA	5.31	1.56	1.46
1	D	679	GLU	CD-OE2	5.31	1.31	1.25
1	D	298	GLU	CD-OE2	5.29	1.31	1.25
1	A	65	GLU	CD-OE1	5.28	1.31	1.25
1	P	702	GLU	CD-OE2	5.28	1.31	1.25
1	G	679	GLU	CD-OE2	5.27	1.31	1.25
1	G	218	LEU	C-N	-5.26	1.22	1.34
1	P	679	GLU	CD-OE2	5.25	1.31	1.25
1	P	65	GLU	CD-OE1	5.23	1.31	1.25
1	D	65	GLU	CD-OE1	5.23	1.31	1.25
1	J	527	GLU	CD-OE2	-5.23	1.19	1.25
1	A	298	GLU	CD-OE2	5.22	1.31	1.25
1	J	679	GLU	CD-OE2	5.22	1.31	1.25
1	D	479	CYS	CB-SG	-5.21	1.73	1.81
2	K	149	ASP	CB-CG	5.20	1.62	1.51
2	Q	149	ASP	CB-CG	5.20	1.62	1.51
1	J	65	GLU	CD-OE1	5.20	1.31	1.25
1	P	527	GLU	CD-OE2	-5.18	1.20	1.25
1	G	65	GLU	CD-OE1	5.17	1.31	1.25
1	A	527	GLU	CD-OE2	-5.17	1.20	1.25
1	D	282	GLU	CD-OE1	5.17	1.31	1.25
1	J	702	GLU	CD-OE2	5.16	1.31	1.25
1	A	21	GLU	CD-OE2	5.15	1.31	1.25
2	E	149	ASP	CB-CG	5.13	1.62	1.51
1	A	679	GLU	CD-OE2	5.12	1.31	1.25
1	P	506	GLU	CD-OE2	5.12	1.31	1.25
1	A	697	CYS	CB-SG	5.12	1.91	1.82
1	J	282	GLU	CD-OE1	5.11	1.31	1.25
1	P	12	GLU	CD-OE2	5.10	1.31	1.25
2	B	149	ASP	CB-CG	5.09	1.62	1.51
1	J	21	GLU	CD-OE2	5.09	1.31	1.25
4	Z	259	GLU	CB-CG	5.09	1.61	1.52
1	D	702	GLU	CD-OE2	5.08	1.31	1.25
1	D	506	GLU	CD-OE2	5.07	1.31	1.25
1	A	702	GLU	CD-OE2	5.07	1.31	1.25
1	G	702	GLU	CD-OE2	5.06	1.31	1.25
1	G	697	CYS	CB-SG	5.05	1.90	1.82
4	Y	259	GLU	CB-CG	5.05	1.61	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	J	12	GLU	CD-OE2	5.05	1.31	1.25
1	A	150	GLU	CD-OE1	5.05	1.31	1.25
1	G	12	GLU	CD-OE2	5.05	1.31	1.25
2	H	149	ASP	CB-CG	5.05	1.62	1.51
4	2	259	GLU	CB-CG	5.04	1.61	1.52
4	8	259	GLU	CB-CG	5.04	1.61	1.52
1	P	21	GLU	CD-OE2	5.04	1.31	1.25
4	V	259	GLU	CB-CG	5.04	1.61	1.52
1	D	12	GLU	CD-OE2	5.03	1.31	1.25
4	W	259	GLU	CB-CG	5.03	1.61	1.52
4	5	259	GLU	CB-CG	5.03	1.61	1.52
4	4	259	GLU	CB-CG	5.03	1.61	1.52
1	A	282	GLU	CD-OE1	5.02	1.31	1.25
4	3	259	GLU	CB-CG	5.02	1.61	1.52
1	D	21	GLU	CD-OE2	5.01	1.31	1.25
4	1	259	GLU	CB-CG	5.01	1.61	1.52
1	G	150	GLU	CD-OE1	5.01	1.31	1.25
1	J	506	GLU	CD-OE2	5.01	1.31	1.25
1	A	539	GLU	CD-OE1	5.00	1.31	1.25
1	G	539	GLU	CD-OE1	5.00	1.31	1.25
4	0	259	GLU	CB-CG	5.00	1.61	1.52

All (1415) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	G	637	LYS	O-C-N	-58.52	23.71	123.20
1	J	637	LYS	O-C-N	-58.47	23.80	123.20
1	D	637	LYS	O-C-N	-58.46	23.81	123.20
1	P	637	LYS	O-C-N	-58.46	23.82	123.20
1	A	637	LYS	O-C-N	-58.44	23.85	123.20
1	J	709	LYS	O-C-N	-37.74	59.04	123.20
1	P	806	MET	O-C-N	-34.55	67.42	122.70
1	D	649	VAL	CG1-CB-CG2	-34.02	56.47	110.90
1	P	649	VAL	CG1-CB-CG2	-34.01	56.48	110.90
1	J	649	VAL	CG1-CB-CG2	-34.01	56.48	110.90
1	A	649	VAL	CG1-CB-CG2	-34.01	56.48	110.90
1	G	649	VAL	CG1-CB-CG2	-33.99	56.52	110.90
1	J	648	THR	CA-CB-OG1	-31.72	42.39	109.00
1	P	648	THR	CA-CB-OG1	-31.71	42.41	109.00
1	D	648	THR	CA-CB-OG1	-31.70	42.44	109.00
1	A	648	THR	CA-CB-OG1	-31.69	42.45	109.00
1	G	648	THR	CA-CB-OG1	-31.67	42.49	109.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	E	150	TYR	CB-CG-CD2	-28.69	103.78	121.00
2	H	150	TYR	CB-CG-CD2	-28.66	103.81	121.00
2	K	150	TYR	CB-CG-CD2	-28.59	103.84	121.00
2	Q	150	TYR	CB-CG-CD2	-28.54	103.87	121.00
1	P	649	VAL	CA-CB-CG1	-28.53	68.10	110.90
2	B	150	TYR	CB-CG-CD2	-28.51	103.89	121.00
1	G	649	VAL	CA-CB-CG1	-28.51	68.13	110.90
1	D	649	VAL	CA-CB-CG1	-28.50	68.15	110.90
1	A	649	VAL	CA-CB-CG1	-28.48	68.17	110.90
1	J	649	VAL	CA-CB-CG1	-28.47	68.19	110.90
1	A	649	VAL	CA-CB-CG2	-28.18	68.63	110.90
1	D	649	VAL	CA-CB-CG2	-28.18	68.63	110.90
1	P	649	VAL	CA-CB-CG2	-28.18	68.63	110.90
1	G	649	VAL	CA-CB-CG2	-28.17	68.64	110.90
1	J	649	VAL	CA-CB-CG2	-28.16	68.67	110.90
1	D	648	THR	CA-CB-CG2	-25.62	76.54	112.40
1	J	648	THR	CA-CB-CG2	-25.57	76.61	112.40
1	P	648	THR	CA-CB-CG2	-25.54	76.64	112.40
1	A	648	THR	CA-CB-CG2	-25.47	76.75	112.40
1	G	648	THR	CA-CB-CG2	-25.38	76.87	112.40
2	H	150	TYR	CG-CD2-CE2	-20.91	104.58	121.30
2	E	150	TYR	CG-CD2-CE2	-20.67	104.76	121.30
2	K	150	TYR	CG-CD2-CE2	-20.60	104.82	121.30
2	B	150	TYR	CG-CD2-CE2	-20.48	104.92	121.30
2	Q	150	TYR	CG-CD2-CE2	-20.47	104.93	121.30
2	Q	150	TYR	CD1-CG-CD2	19.50	139.35	117.90
2	E	150	TYR	CD1-CG-CD2	19.50	139.35	117.90
2	K	150	TYR	CD1-CG-CD2	19.49	139.34	117.90
2	H	150	TYR	CD1-CG-CD2	19.48	139.33	117.90
2	B	150	TYR	CD1-CG-CD2	19.42	139.26	117.90
1	P	785	GLU	O-C-N	-18.61	92.93	122.70
2	H	150	TYR	CG-CD1-CE1	-18.55	106.46	121.30
2	E	150	TYR	CG-CD1-CE1	-18.51	106.49	121.30
2	K	150	TYR	CG-CD1-CE1	-18.42	106.57	121.30
2	B	150	TYR	CG-CD1-CE1	-18.37	106.61	121.30
2	Q	150	TYR	CG-CD1-CE1	-18.37	106.61	121.30
1	P	806	MET	CA-C-N	17.55	155.81	117.20
1	P	800	ARG	NE-CZ-NH2	-16.63	111.98	120.30
1	J	800	ARG	NE-CZ-NH2	-16.58	112.01	120.30
1	D	800	ARG	NE-CZ-NH2	-16.47	112.06	120.30
1	A	800	ARG	NE-CZ-NH2	-16.29	112.16	120.30
1	G	800	ARG	NE-CZ-NH2	-16.19	112.21	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	G	623	PHE	CB-CG-CD2	-13.71	111.20	120.80
1	P	623	PHE	CB-CG-CD2	-13.71	111.21	120.80
1	D	623	PHE	CB-CG-CD2	-13.70	111.21	120.80
1	A	623	PHE	CB-CG-CD2	-13.70	111.21	120.80
1	J	623	PHE	CB-CG-CD2	-13.66	111.23	120.80
1	P	769	ALA	C-N-CA	13.54	150.74	122.30
1	P	623	PHE	CB-CG-CD1	12.42	129.49	120.80
1	J	623	PHE	CB-CG-CD1	12.40	129.48	120.80
1	A	623	PHE	CB-CG-CD1	12.39	129.47	120.80
1	G	623	PHE	CB-CG-CD1	12.35	129.44	120.80
1	P	623	PHE	CA-CB-CG	-12.26	84.47	113.90
1	J	623	PHE	CA-CB-CG	-12.26	84.49	113.90
1	A	623	PHE	CA-CB-CG	-12.25	84.49	113.90
1	D	623	PHE	CA-CB-CG	-12.22	84.57	113.90
1	G	623	PHE	CA-CB-CG	-12.20	84.63	113.90
1	D	623	PHE	CB-CG-CD1	12.13	129.29	120.80
1	J	98	HIS	CB-CA-C	-11.57	87.26	110.40
1	P	98	HIS	CB-CA-C	-11.56	87.28	110.40
1	G	98	HIS	CB-CA-C	-11.55	87.29	110.40
1	D	98	HIS	CB-CA-C	-11.54	87.32	110.40
1	A	98	HIS	CB-CA-C	-11.52	87.35	110.40
1	P	769	ALA	O-C-N	-11.21	104.14	123.20
1	G	709	LYS	O-C-N	10.73	141.45	123.20
1	D	568	PRO	O-C-N	10.70	139.81	122.70
1	G	568	PRO	O-C-N	10.68	139.79	122.70
1	A	568	PRO	O-C-N	10.67	139.78	122.70
1	J	568	PRO	O-C-N	10.62	139.69	122.70
1	P	568	PRO	O-C-N	10.60	139.65	122.70
1	P	709	LYS	C-N-CA	10.37	144.08	122.30
2	Q	141	PRO	CA-N-CD	10.29	126.11	111.70
2	E	141	PRO	CA-N-CD	10.27	126.07	111.70
2	H	141	PRO	CA-N-CD	10.26	126.06	111.70
2	K	141	PRO	CA-N-CD	10.23	126.03	111.70
2	B	141	PRO	CA-N-CD	10.13	125.88	111.70
1	G	625	THR	CA-CB-CG2	-10.09	98.27	112.40
1	P	625	THR	CA-CB-CG2	-10.08	98.29	112.40
1	G	327	ASP	CB-CG-OD1	-10.06	109.25	118.30
1	A	327	ASP	CB-CG-OD1	-10.04	109.26	118.30
1	A	625	THR	CA-CB-CG2	-10.03	98.36	112.40
1	D	327	ASP	CB-CG-OD1	-10.03	109.28	118.30
1	J	625	THR	CA-CB-CG2	-10.02	98.37	112.40
1	J	327	ASP	CB-CG-OD1	-10.01	109.29	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	P	327	ASP	CB-CG-OD1	-9.97	109.33	118.30
1	D	625	THR	CA-CB-CG2	-9.96	98.46	112.40
1	G	709	LYS	CA-C-N	-9.95	96.30	116.20
1	A	241	ASP	CB-CG-OD1	-9.88	109.41	118.30
1	G	241	ASP	CB-CG-OD1	-9.81	109.47	118.30
3	C	63	ILE	O-C-N	9.80	138.39	122.70
3	I	63	ILE	O-C-N	9.77	138.34	122.70
1	D	728	ASN	O-C-N	9.75	138.30	122.70
1	P	241	ASP	CB-CG-OD1	-9.73	109.55	118.30
1	D	241	ASP	CB-CG-OD1	-9.72	109.55	118.30
1	P	728	ASN	O-C-N	9.68	138.19	122.70
1	J	241	ASP	CB-CG-OD1	-9.68	109.59	118.30
3	F	63	ILE	O-C-N	9.67	138.17	122.70
3	L	63	ILE	O-C-N	9.67	138.17	122.70
3	R	63	ILE	O-C-N	9.67	138.16	122.70
1	A	728	ASN	O-C-N	9.62	138.09	122.70
1	J	728	ASN	O-C-N	9.61	138.07	122.70
1	P	805	ALA	O-C-N	-9.58	107.38	122.70
1	G	728	ASN	O-C-N	9.57	138.02	122.70
1	G	264	ASP	CB-CG-OD2	-9.47	109.78	118.30
1	D	264	ASP	CB-CG-OD2	-9.46	109.78	118.30
1	J	264	ASP	CB-CG-OD2	-9.41	109.83	118.30
1	A	264	ASP	CB-CG-OD2	-9.39	109.85	118.30
2	E	150	TYR	N-CA-CB	-9.38	93.71	110.60
2	Q	150	TYR	N-CA-CB	-9.38	93.72	110.60
2	H	150	TYR	N-CA-CB	-9.35	93.77	110.60
1	P	264	ASP	CB-CG-OD2	-9.35	109.89	118.30
2	K	150	TYR	N-CA-CB	-9.34	93.79	110.60
2	B	150	TYR	N-CA-CB	-9.31	93.83	110.60
4	Y	356	TRP	CD1-CG-CD2	9.20	113.66	106.30
4	5	356	TRP	CD1-CG-CD2	9.16	113.63	106.30
4	7	356	TRP	CD1-CG-CD2	9.15	113.62	106.30
4	2	356	TRP	CD1-CG-CD2	9.15	113.62	106.30
4	9	356	TRP	CD1-CG-CD2	9.13	113.60	106.30
4	8	356	TRP	CD1-CG-CD2	9.11	113.58	106.30
4	0	356	TRP	CD1-CG-CD2	9.11	113.58	106.30
4	1	356	TRP	CD1-CG-CD2	9.09	113.57	106.30
4	W	356	TRP	CD1-CG-CD2	9.09	113.57	106.30
4	3	356	TRP	CD1-CG-CD2	9.09	113.57	106.30
1	J	378	ASP	CB-CG-OD2	9.05	126.44	118.30
4	X	356	TRP	CD1-CG-CD2	9.03	113.53	106.30
4	4	356	TRP	CD1-CG-CD2	9.03	113.52	106.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	Z	356	TRP	CD1-CG-CD2	9.02	113.51	106.30
4	V	356	TRP	CD1-CG-CD2	9.01	113.51	106.30
1	P	378	ASP	CB-CG-OD2	9.00	126.40	118.30
1	G	352	TYR	CB-CG-CD1	8.92	126.35	121.00
1	P	352	TYR	CB-CG-CD1	8.91	126.35	121.00
1	J	352	TYR	CB-CG-CD1	8.90	126.34	121.00
1	A	378	ASP	CB-CG-OD2	8.88	126.30	118.30
1	D	378	ASP	CB-CG-OD2	8.84	126.25	118.30
1	G	378	ASP	CB-CG-OD2	8.82	126.24	118.30
2	K	138	ALA	O-C-N	-8.73	108.72	122.70
2	Q	138	ALA	O-C-N	-8.73	108.74	122.70
1	D	352	TYR	CB-CG-CD1	8.71	126.22	121.00
1	A	352	TYR	CB-CG-CD1	8.70	126.22	121.00
4	8	177	ARG	NE-CZ-NH2	-8.67	115.97	120.30
2	E	138	ALA	O-C-N	-8.66	108.84	122.70
2	H	138	ALA	O-C-N	-8.66	108.84	122.70
4	X	177	ARG	NE-CZ-NH2	-8.66	115.97	120.30
4	1	177	ARG	NE-CZ-NH2	-8.66	115.97	120.30
2	B	138	ALA	O-C-N	-8.63	108.89	122.70
4	Z	177	ARG	NE-CZ-NH2	-8.63	115.98	120.30
4	3	177	ARG	NE-CZ-NH2	-8.62	115.99	120.30
4	0	177	ARG	NE-CZ-NH2	-8.62	115.99	120.30
4	W	177	ARG	NE-CZ-NH2	-8.59	116.00	120.30
4	V	177	ARG	NE-CZ-NH2	-8.58	116.01	120.30
4	1	86	TRP	CD1-CG-CD2	8.53	113.12	106.30
4	2	86	TRP	CD1-CG-CD2	8.52	113.12	106.30
1	P	601	ASP	CB-CG-OD1	-8.52	110.63	118.30
4	8	86	TRP	CD1-CG-CD2	8.52	113.11	106.30
4	Y	86	TRP	CD1-CG-CD2	8.51	113.11	106.30
4	W	86	TRP	CD1-CG-CD2	8.50	113.10	106.30
4	9	86	TRP	CD1-CG-CD2	8.50	113.10	106.30
1	J	601	ASP	CB-CG-OD1	-8.49	110.66	118.30
4	V	86	TRP	CD1-CG-CD2	8.49	113.09	106.30
4	5	86	TRP	CD1-CG-CD2	8.49	113.09	106.30
4	4	177	ARG	NE-CZ-NH2	-8.47	116.06	120.30
1	D	601	ASP	CB-CG-OD1	-8.47	110.68	118.30
1	J	33	ASP	CB-CG-OD1	-8.47	110.68	118.30
4	2	177	ARG	NE-CZ-NH2	-8.47	116.07	120.30
4	0	86	TRP	CD1-CG-CD2	8.46	113.07	106.30
1	A	601	ASP	CB-CG-OD1	-8.46	110.69	118.30
1	G	601	ASP	CB-CG-OD1	-8.46	110.69	118.30
4	Y	177	ARG	NE-CZ-NH2	-8.45	116.07	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	X	86	TRP	CD1-CG-CD2	8.44	113.05	106.30
4	4	86	TRP	CD1-CG-CD2	8.43	113.04	106.30
4	3	86	TRP	CD1-CG-CD2	8.42	113.04	106.30
4	7	177	ARG	NE-CZ-NH2	-8.42	116.09	120.30
4	5	177	ARG	NE-CZ-NH2	-8.40	116.10	120.30
1	J	352	TYR	CB-CG-CD2	-8.40	115.96	121.00
4	7	86	TRP	CD1-CG-CD2	8.38	113.00	106.30
1	P	352	TYR	CB-CG-CD2	-8.36	115.98	121.00
4	Z	86	TRP	CD1-CG-CD2	8.36	112.99	106.30
1	P	33	ASP	CB-CG-OD1	-8.34	110.79	118.30
4	9	177	ARG	NE-CZ-NH2	-8.33	116.13	120.30
1	D	33	ASP	CB-CG-OD1	-8.30	110.83	118.30
1	G	33	ASP	CB-CG-OD1	-8.30	110.83	118.30
1	G	352	TYR	CB-CG-CD2	-8.29	116.03	121.00
1	A	352	TYR	CB-CG-CD2	-8.28	116.03	121.00
1	A	33	ASP	CB-CG-OD1	-8.28	110.85	118.30
1	D	352	TYR	CB-CG-CD2	-8.09	116.15	121.00
1	P	785	GLU	CA-C-N	8.05	134.91	117.20
4	Y	356	TRP	CE2-CD2-CG	-8.05	100.86	107.30
1	P	769	ALA	CA-C-N	8.00	132.19	116.20
1	A	339	ASP	CB-CG-OD1	-7.97	111.12	118.30
4	3	356	TRP	CE2-CD2-CG	-7.97	100.93	107.30
4	5	356	TRP	CE2-CD2-CG	-7.96	100.93	107.30
4	7	356	TRP	CE2-CD2-CG	-7.96	100.93	107.30
4	2	356	TRP	CE2-CD2-CG	-7.96	100.94	107.30
1	G	339	ASP	CB-CG-OD1	-7.94	111.16	118.30
1	A	637	LYS	CA-C-N	7.94	132.07	116.20
4	8	356	TRP	CE2-CD2-CG	-7.94	100.95	107.30
1	P	637	LYS	CA-C-N	7.93	132.07	116.20
4	W	356	TRP	CE2-CD2-CG	-7.93	100.95	107.30
4	9	356	TRP	CE2-CD2-CG	-7.93	100.95	107.30
1	P	806	MET	C-N-CA	7.92	141.51	121.70
1	D	637	LYS	CA-C-N	7.92	132.04	116.20
4	0	356	TRP	CE2-CD2-CG	-7.92	100.97	107.30
1	J	339	ASP	CB-CG-OD1	-7.91	111.18	118.30
4	V	356	TRP	CE2-CD2-CG	-7.90	100.98	107.30
1	G	637	LYS	CA-C-N	7.89	131.99	116.20
1	J	637	LYS	CA-C-N	7.89	131.98	116.20
1	P	339	ASP	CB-CG-OD1	-7.89	111.20	118.30
4	X	356	TRP	CE2-CD2-CG	-7.89	100.99	107.30
4	1	356	TRP	CE2-CD2-CG	-7.88	100.99	107.30
4	4	356	TRP	CE2-CD2-CG	-7.88	101.00	107.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	D	339	ASP	CB-CG-OD1	-7.88	111.21	118.30
2	Q	150	TYR	CD1-CE1-CZ	-7.85	112.73	119.80
2	B	150	TYR	CD1-CE1-CZ	-7.84	112.74	119.80
4	Z	356	TRP	CE2-CD2-CG	-7.83	101.04	107.30
1	D	202	SER	CB-CA-C	-7.79	95.30	110.10
1	A	202	SER	CB-CA-C	-7.78	95.33	110.10
2	E	150	TYR	CD1-CE1-CZ	-7.78	112.80	119.80
2	K	150	TYR	CD1-CE1-CZ	-7.77	112.81	119.80
1	J	202	SER	CB-CA-C	-7.76	95.36	110.10
1	G	202	SER	CB-CA-C	-7.75	95.37	110.10
4	5	312	ARG	NE-CZ-NH2	7.74	124.17	120.30
1	P	202	SER	CB-CA-C	-7.73	95.42	110.10
2	H	150	TYR	CD1-CE1-CZ	-7.72	112.85	119.80
1	P	653	PHE	CB-CG-CD1	-7.72	115.40	120.80
4	3	312	ARG	NE-CZ-NH2	7.71	124.15	120.30
4	2	312	ARG	NE-CZ-NH2	7.70	124.15	120.30
1	G	654	ARG	NE-CZ-NH1	7.69	124.15	120.30
4	8	312	ARG	NE-CZ-NH2	7.68	124.14	120.30
1	J	653	PHE	CB-CG-CD1	-7.67	115.43	120.80
4	5	86	TRP	CE2-CD2-CG	-7.64	101.18	107.30
4	7	312	ARG	NE-CZ-NH2	7.61	124.10	120.30
4	X	312	ARG	NE-CZ-NH2	7.60	124.10	120.30
4	V	86	TRP	CE2-CD2-CG	-7.59	101.23	107.30
4	1	312	ARG	NE-CZ-NH2	7.58	124.09	120.30
4	Y	86	TRP	CE2-CD2-CG	-7.58	101.24	107.30
4	1	86	TRP	CE2-CD2-CG	-7.57	101.24	107.30
1	G	653	PHE	CB-CG-CD1	-7.57	115.50	120.80
4	9	312	ARG	NE-CZ-NH2	7.57	124.08	120.30
4	W	312	ARG	NE-CZ-NH2	7.57	124.08	120.30
4	8	86	TRP	CE2-CD2-CG	-7.56	101.25	107.30
4	Z	312	ARG	NE-CZ-NH2	7.56	124.08	120.30
4	V	312	ARG	NE-CZ-NH2	7.56	124.08	120.30
1	D	653	PHE	CB-CG-CD1	-7.54	115.52	120.80
4	4	86	TRP	CE2-CD2-CG	-7.54	101.26	107.30
4	0	312	ARG	NE-CZ-NH2	7.54	124.07	120.30
4	4	312	ARG	NE-CZ-NH2	7.54	124.07	120.30
4	9	86	TRP	CE2-CD2-CG	-7.54	101.27	107.30
4	Y	312	ARG	NE-CZ-NH2	7.54	124.07	120.30
4	0	86	TRP	CE2-CD2-CG	-7.53	101.27	107.30
4	W	86	TRP	CE2-CD2-CG	-7.53	101.27	107.30
4	2	86	TRP	CE2-CD2-CG	-7.53	101.28	107.30
2	B	127	ARG	NE-CZ-NH2	7.52	124.06	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	C	63	ILE	CG1-CB-CG2	-7.52	94.85	111.40
4	X	86	TRP	CE2-CD2-CG	-7.50	101.30	107.30
3	L	63	ILE	CG1-CB-CG2	-7.49	94.92	111.40
3	R	63	ILE	CG1-CB-CG2	-7.49	94.93	111.40
1	A	653	PHE	CB-CG-CD1	-7.49	115.56	120.80
4	7	86	TRP	CE2-CD2-CG	-7.48	101.31	107.30
3	I	63	ILE	CG1-CB-CG2	-7.48	94.94	111.40
1	P	654	ARG	NE-CZ-NH1	7.48	124.04	120.30
3	F	63	ILE	CG1-CB-CG2	-7.48	94.94	111.40
1	P	518	ASP	CB-CG-OD1	-7.46	111.59	118.30
4	3	86	TRP	CE2-CD2-CG	-7.45	101.34	107.30
4	Z	86	TRP	CE2-CD2-CG	-7.43	101.36	107.30
1	D	346	ASP	CB-CG-OD2	-7.42	111.62	118.30
1	G	346	ASP	CB-CG-OD2	-7.41	111.63	118.30
1	A	346	ASP	CB-CG-OD2	-7.41	111.64	118.30
3	I	63	ILE	CA-C-N	-7.41	100.91	117.20
4	X	254	ARG	NE-CZ-NH2	-7.40	116.60	120.30
1	A	654	ARG	NE-CZ-NH1	7.39	124.00	120.30
1	D	654	ARG	NE-CZ-NH1	7.38	123.99	120.30
1	J	518	ASP	CB-CG-OD1	-7.38	111.66	118.30
4	2	233	SER	CA-C-N	-7.37	100.98	117.20
4	5	233	SER	CA-C-N	-7.37	100.98	117.20
4	Z	254	ARG	NE-CZ-NH2	-7.37	116.61	120.30
4	Z	233	SER	CA-C-N	-7.37	100.99	117.20
4	7	180	LEU	CA-CB-CG	7.37	132.24	115.30
4	W	233	SER	CA-C-N	-7.36	101.00	117.20
4	0	233	SER	CA-C-N	-7.36	101.01	117.20
4	X	233	SER	CA-C-N	-7.36	101.01	117.20
1	P	104	TYR	CB-CG-CD2	7.36	125.42	121.00
4	7	233	SER	CA-C-N	-7.36	101.01	117.20
4	9	180	LEU	CA-CB-CG	7.35	132.21	115.30
4	W	254	ARG	NE-CZ-NH2	-7.35	116.62	120.30
4	Y	233	SER	CA-C-N	-7.35	101.03	117.20
4	4	233	SER	CA-C-N	-7.35	101.03	117.20
3	C	63	ILE	CA-C-N	-7.35	101.04	117.20
4	3	233	SER	CA-C-N	-7.34	101.04	117.20
3	R	63	ILE	CA-C-N	-7.34	101.06	117.20
4	V	233	SER	CA-C-N	-7.33	101.06	117.20
4	W	180	LEU	CA-CB-CG	7.33	132.17	115.30
4	8	233	SER	CA-C-N	-7.33	101.07	117.20
4	V	180	LEU	CA-CB-CG	7.33	132.17	115.30
4	0	180	LEU	CA-CB-CG	7.33	132.16	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	X	180	LEU	CA-CB-CG	7.33	132.16	115.30
4	Z	180	LEU	CA-CB-CG	7.33	132.16	115.30
4	1	180	LEU	CA-CB-CG	7.32	132.15	115.30
4	4	254	ARG	NE-CZ-NH2	-7.32	116.64	120.30
3	L	63	ILE	CA-C-N	-7.32	101.10	117.20
4	1	233	SER	CA-C-N	-7.32	101.09	117.20
4	3	180	LEU	CA-CB-CG	7.32	132.14	115.30
4	9	233	SER	CA-C-N	-7.32	101.09	117.20
4	2	180	LEU	CA-CB-CG	7.32	132.13	115.30
2	E	127	ARG	NE-CZ-NH2	7.32	123.96	120.30
4	8	180	LEU	CA-CB-CG	7.31	132.12	115.30
4	5	180	LEU	CA-CB-CG	7.31	132.12	115.30
3	F	63	ILE	CA-C-N	-7.31	101.12	117.20
4	4	180	LEU	CA-CB-CG	7.31	132.11	115.30
4	Y	180	LEU	CA-CB-CG	7.30	132.09	115.30
4	0	254	ARG	NE-CZ-NH2	-7.29	116.65	120.30
1	A	518	ASP	CB-CG-OD1	-7.29	111.74	118.30
1	D	518	ASP	CB-CG-OD1	-7.29	111.74	118.30
1	J	654	ARG	NE-CZ-NH1	7.28	123.94	120.30
1	G	518	ASP	CB-CG-OD1	-7.28	111.75	118.30
1	J	346	ASP	CB-CG-OD2	-7.26	111.77	118.30
4	5	254	ARG	NE-CZ-NH2	-7.25	116.67	120.30
1	G	104	TYR	CB-CG-CD2	7.24	125.34	121.00
4	9	340	TRP	CE2-CD2-CG	-7.24	101.51	107.30
4	W	79	TRP	CD1-CG-CD2	7.23	112.08	106.30
4	8	79	TRP	CD1-CG-CD2	7.22	112.08	106.30
1	P	346	ASP	CB-CG-OD2	-7.21	111.81	118.30
4	1	254	ARG	NE-CZ-NH2	-7.21	116.70	120.30
1	J	104	TYR	CB-CG-CD2	7.21	125.32	121.00
1	A	148	ARG	NE-CZ-NH2	-7.20	116.70	120.30
2	Q	150	TYR	CB-CG-CD1	-7.19	116.69	121.00
4	5	340	TRP	CE2-CD2-CG	-7.19	101.55	107.30
4	3	79	TRP	CD1-CG-CD2	7.18	112.05	106.30
4	W	340	TRP	CE2-CD2-CG	-7.18	101.56	107.30
4	7	340	TRP	CE2-CD2-CG	-7.18	101.56	107.30
4	2	79	TRP	CD1-CG-CD2	7.18	112.04	106.30
4	3	254	ARG	NE-CZ-NH2	-7.17	116.71	120.30
4	0	340	TRP	CE2-CD2-CG	-7.17	101.56	107.30
4	7	79	TRP	CD1-CG-CD2	7.17	112.04	106.30
4	4	79	TRP	CD1-CG-CD2	7.16	112.03	106.30
4	9	79	TRP	CD1-CG-CD2	7.16	112.03	106.30
4	X	79	TRP	CD1-CG-CD2	7.16	112.02	106.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	Z	79	TRP	CD1-CG-CD2	7.15	112.02	106.30
4	1	79	TRP	CD1-CG-CD2	7.15	112.02	106.30
4	Y	254	ARG	NE-CZ-NH2	-7.15	116.73	120.30
4	8	254	ARG	NE-CZ-NH2	-7.14	116.73	120.30
4	5	79	TRP	CD1-CG-CD2	7.14	112.01	106.30
2	K	150	TYR	CB-CG-CD1	-7.13	116.72	121.00
4	Z	206	ARG	NE-CZ-NH1	7.13	123.86	120.30
4	Z	340	TRP	CE2-CD2-CG	-7.13	101.60	107.30
4	4	206	ARG	NE-CZ-NH1	7.13	123.86	120.30
4	Y	79	TRP	CD1-CG-CD2	7.12	112.00	106.30
4	0	79	TRP	CD1-CG-CD2	7.12	112.00	106.30
4	V	79	TRP	CD1-CG-CD2	7.12	112.00	106.30
1	A	568	PRO	CA-C-N	-7.12	101.54	117.20
4	8	340	TRP	CE2-CD2-CG	-7.11	101.61	107.30
4	2	340	TRP	CE2-CD2-CG	-7.11	101.61	107.30
4	7	254	ARG	NE-CZ-NH2	-7.11	116.75	120.30
1	G	568	PRO	CA-C-N	-7.10	101.58	117.20
2	Q	127	ARG	NE-CZ-NH2	7.10	123.85	120.30
4	1	340	TRP	CE2-CD2-CG	-7.10	101.62	107.30
4	7	206	ARG	NE-CZ-NH1	7.10	123.85	120.30
2	H	150	TYR	CB-CG-CD1	-7.09	116.74	121.00
4	3	206	ARG	NE-CZ-NH1	7.09	123.85	120.30
2	B	150	TYR	CB-CG-CD1	-7.09	116.75	121.00
4	V	340	TRP	CE2-CD2-CG	-7.09	101.63	107.30
4	V	206	ARG	NE-CZ-NH1	7.08	123.84	120.30
4	4	340	TRP	CE2-CD2-CG	-7.08	101.64	107.30
1	J	568	PRO	CA-C-N	-7.08	101.64	117.20
1	P	568	PRO	CA-C-N	-7.07	101.64	117.20
4	V	254	ARG	NE-CZ-NH2	-7.07	116.77	120.30
4	X	340	TRP	CE2-CD2-CG	-7.07	101.64	107.30
4	3	340	TRP	CE2-CD2-CG	-7.07	101.65	107.30
2	H	127	ARG	NE-CZ-NH2	7.06	123.83	120.30
1	D	104	TYR	CB-CG-CD2	7.06	125.24	121.00
1	D	568	PRO	CA-C-N	-7.06	101.67	117.20
4	5	206	ARG	NE-CZ-NH1	7.06	123.83	120.30
1	D	218	LEU	CB-CG-CD1	7.05	122.99	111.00
4	V	47	MET	CA-CB-CG	-7.05	101.31	113.30
4	2	206	ARG	NE-CZ-NH1	7.05	123.82	120.30
4	4	47	MET	CA-CB-CG	-7.05	101.31	113.30
4	8	79	TRP	CE2-CD2-CG	-7.04	101.66	107.30
1	A	264	ASP	N-CA-CB	-7.04	97.92	110.60
2	E	150	TYR	CB-CG-CD1	-7.04	116.78	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	Y	206	ARG	NE-CZ-NH1	7.04	123.82	120.30
4	9	206	ARG	NE-CZ-NH1	7.03	123.82	120.30
1	J	264	ASP	N-CA-CB	-7.03	97.95	110.60
4	Y	340	TRP	CE2-CD2-CG	-7.03	101.68	107.30
1	P	264	ASP	N-CA-CB	-7.02	97.96	110.60
1	A	218	LEU	CB-CG-CD1	7.02	122.93	111.00
4	X	47	MET	CA-CB-CG	-7.02	101.37	113.30
4	W	206	ARG	NE-CZ-NH1	7.02	123.81	120.30
1	A	104	TYR	CB-CG-CD2	7.01	125.21	121.00
4	W	47	MET	CA-CB-CG	-7.01	101.37	113.30
4	0	206	ARG	NE-CZ-NH1	7.01	123.81	120.30
4	9	47	MET	CA-CB-CG	-7.01	101.38	113.30
1	D	217	THR	N-CA-CB	7.01	123.62	110.30
4	9	254	ARG	NE-CZ-NH2	-7.01	116.80	120.30
4	9	340	TRP	CD1-CG-CD2	7.01	111.91	106.30
4	2	79	TRP	CE2-CD2-CG	-7.01	101.69	107.30
4	X	206	ARG	NE-CZ-NH1	7.01	123.80	120.30
1	J	148	ARG	NE-CZ-NH2	-7.00	116.80	120.30
4	2	47	MET	CA-CB-CG	-7.00	101.39	113.30
1	J	218	LEU	CB-CG-CD1	7.00	122.90	111.00
4	0	47	MET	CA-CB-CG	-7.00	101.40	113.30
4	5	47	MET	CA-CB-CG	-7.00	101.40	113.30
4	8	47	MET	CA-CB-CG	-7.00	101.40	113.30
4	2	254	ARG	NE-CZ-NH2	-7.00	116.80	120.30
4	3	47	MET	CA-CB-CG	-7.00	101.40	113.30
4	7	47	MET	CA-CB-CG	-7.00	101.40	113.30
4	Z	47	MET	CA-CB-CG	-7.00	101.40	113.30
1	G	218	LEU	CB-CG-CD1	7.00	122.89	111.00
4	W	79	TRP	CE2-CD2-CG	-6.99	101.71	107.30
1	G	217	THR	N-CA-CB	6.99	123.58	110.30
4	1	47	MET	CA-CB-CG	-6.99	101.42	113.30
4	8	206	ARG	NE-CZ-NH1	6.99	123.79	120.30
1	D	264	ASP	N-CA-CB	-6.99	98.02	110.60
1	G	264	ASP	N-CA-CB	-6.99	98.02	110.60
4	1	206	ARG	NE-CZ-NH1	6.99	123.79	120.30
4	0	340	TRP	CD1-CG-CD2	6.98	111.89	106.30
2	K	127	ARG	NE-CZ-NH2	6.98	123.79	120.30
4	1	79	TRP	CE2-CD2-CG	-6.98	101.72	107.30
1	P	218	LEU	CB-CG-CD1	6.98	122.86	111.00
4	5	79	TRP	CE2-CD2-CG	-6.98	101.72	107.30
4	X	79	TRP	CE2-CD2-CG	-6.98	101.72	107.30
1	D	148	ARG	NE-CZ-NH2	-6.98	116.81	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	Y	47	MET	CA-CB-CG	-6.97	101.44	113.30
4	Z	340	TRP	CD1-CG-CD2	6.97	111.88	106.30
1	P	148	ARG	NE-CZ-NH2	-6.97	116.81	120.30
1	A	217	THR	N-CA-CB	6.97	123.53	110.30
4	5	340	TRP	CD1-CG-CD2	6.96	111.87	106.30
4	7	79	TRP	CE2-CD2-CG	-6.96	101.74	107.30
4	W	340	TRP	CD1-CG-CD2	6.95	111.86	106.30
1	P	217	THR	N-CA-CB	6.94	123.49	110.30
4	7	340	TRP	CD1-CG-CD2	6.94	111.85	106.30
4	4	79	TRP	CE2-CD2-CG	-6.94	101.75	107.30
1	J	217	THR	N-CA-CB	6.93	123.47	110.30
4	Y	79	TRP	CE2-CD2-CG	-6.93	101.75	107.30
4	3	79	TRP	CE2-CD2-CG	-6.92	101.76	107.30
4	V	79	TRP	CE2-CD2-CG	-6.92	101.77	107.30
4	8	340	TRP	CD1-CG-CD2	6.91	111.83	106.30
4	9	79	TRP	CE2-CD2-CG	-6.91	101.77	107.30
4	0	79	TRP	CE2-CD2-CG	-6.90	101.78	107.30
4	V	340	TRP	CD1-CG-CD2	6.90	111.82	106.30
4	Z	79	TRP	CE2-CD2-CG	-6.90	101.78	107.30
4	2	340	TRP	CD1-CG-CD2	6.89	111.81	106.30
1	G	75	ASP	N-CA-CB	6.88	122.99	110.60
1	P	728	ASN	CA-C-N	-6.88	102.06	117.20
4	3	340	TRP	CD1-CG-CD2	6.87	111.80	106.30
1	A	75	ASP	N-CA-CB	6.87	122.97	110.60
1	D	728	ASN	CA-C-N	-6.87	102.09	117.20
1	G	450	ASP	CB-CG-OD2	6.87	124.48	118.30
4	1	340	TRP	CD1-CG-CD2	6.86	111.79	106.30
1	G	148	ARG	NE-CZ-NH2	-6.85	116.87	120.30
1	J	728	ASN	CA-C-N	-6.85	102.13	117.20
1	P	75	ASP	N-CA-CB	6.85	122.93	110.60
1	P	450	ASP	CB-CG-OD2	6.85	124.46	118.30
4	X	340	TRP	CD1-CG-CD2	6.84	111.78	106.30
1	A	728	ASN	CA-C-N	-6.84	102.15	117.20
1	J	75	ASP	N-CA-CB	6.84	122.91	110.60
1	G	728	ASN	CA-C-N	-6.83	102.17	117.20
4	4	340	TRP	CD1-CG-CD2	6.81	111.75	106.30
1	D	450	ASP	CB-CG-OD2	6.79	124.42	118.30
1	J	75	ASP	CB-CG-OD2	6.78	124.40	118.30
1	J	450	ASP	CB-CG-OD2	6.77	124.40	118.30
4	Y	340	TRP	CD1-CG-CD2	6.77	111.72	106.30
1	A	450	ASP	CB-CG-OD2	6.76	124.38	118.30
1	D	75	ASP	N-CA-CB	6.72	122.70	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	P	75	ASP	CB-CG-OD2	6.72	124.35	118.30
1	G	781	ASP	CB-CG-OD1	-6.71	112.26	118.30
1	P	555	TYR	CB-CG-CD2	-6.71	116.97	121.00
1	P	756	THR	N-CA-CB	-6.68	97.61	110.30
1	J	756	THR	N-CA-CB	-6.67	97.62	110.30
1	G	219	GLU	N-CA-C	-6.67	92.99	111.00
4	W	169	TYR	CB-CG-CD2	-6.67	117.00	121.00
1	G	756	THR	N-CA-CB	-6.66	97.64	110.30
1	J	219	GLU	N-CA-C	-6.66	93.02	111.00
4	5	196	ARG	NE-CZ-NH1	6.66	123.63	120.30
1	P	219	GLU	N-CA-C	-6.66	93.03	111.00
1	J	555	TYR	CB-CG-CD2	-6.65	117.01	121.00
1	A	781	ASP	CB-CG-OD1	-6.64	112.33	118.30
1	D	756	THR	N-CA-CB	-6.63	97.69	110.30
4	8	169	TYR	CB-CG-CD2	-6.63	117.02	121.00
1	A	219	GLU	N-CA-C	-6.62	93.13	111.00
1	A	756	THR	N-CA-CB	-6.62	97.73	110.30
4	Y	196	ARG	NE-CZ-NH1	6.62	123.61	120.30
1	D	75	ASP	CB-CG-OD2	6.61	124.25	118.30
1	D	781	ASP	CB-CG-OD1	-6.61	112.35	118.30
1	P	781	ASP	CB-CG-OD1	-6.61	112.35	118.30
1	A	75	ASP	CB-CG-OD2	6.60	124.24	118.30
1	G	555	TYR	CB-CG-CD2	-6.60	117.04	121.00
4	Z	169	TYR	CB-CG-CD2	-6.58	117.05	121.00
4	9	196	ARG	NE-CZ-NH1	6.57	123.59	120.30
1	D	219	GLU	N-CA-C	-6.57	93.26	111.00
4	4	169	TYR	CB-CG-CD2	-6.57	117.06	121.00
4	7	169	TYR	CB-CG-CD2	-6.56	117.06	121.00
4	4	196	ARG	NE-CZ-NH1	6.56	123.58	120.30
4	7	196	ARG	NE-CZ-NH1	6.56	123.58	120.30
1	A	169	ASP	CB-CG-OD1	-6.56	112.40	118.30
1	G	332	MET	CG-SD-CE	-6.55	89.71	100.20
1	A	332	MET	CG-SD-CE	-6.55	89.71	100.20
4	1	196	ARG	NE-CZ-NH1	6.55	123.57	120.30
1	J	332	MET	CG-SD-CE	-6.54	89.73	100.20
4	X	283	MET	CG-SD-CE	6.54	110.67	100.20
4	5	169	TYR	CB-CG-CD2	-6.54	117.07	121.00
4	V	283	MET	CG-SD-CE	6.54	110.67	100.20
1	D	332	MET	CG-SD-CE	-6.54	89.73	100.20
4	Y	283	MET	CG-SD-CE	6.54	110.66	100.20
1	G	169	ASP	CB-CG-OD1	-6.54	112.42	118.30
1	J	781	ASP	CB-CG-OD1	-6.53	112.42	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	P	332	MET	CG-SD-CE	-6.53	89.75	100.20
4	3	196	ARG	NE-CZ-NH1	6.53	123.57	120.30
1	J	141	LEU	CB-CA-C	-6.53	97.79	110.20
4	0	283	MET	CG-SD-CE	6.53	110.65	100.20
4	Z	283	MET	CG-SD-CE	6.53	110.65	100.20
1	P	169	ASP	CB-CG-OD1	-6.53	112.42	118.30
1	A	343	PHE	CB-CG-CD1	6.53	125.37	120.80
1	G	141	LEU	CB-CA-C	-6.53	97.80	110.20
4	W	283	MET	CG-SD-CE	6.53	110.64	100.20
4	X	196	ARG	NE-CZ-NH1	6.53	123.56	120.30
4	8	283	MET	CG-SD-CE	6.52	110.64	100.20
4	9	283	MET	CG-SD-CE	6.52	110.64	100.20
4	2	283	MET	CG-SD-CE	6.52	110.63	100.20
4	3	283	MET	CG-SD-CE	6.52	110.63	100.20
1	D	555	TYR	CB-CG-CD2	-6.51	117.09	121.00
4	4	283	MET	CG-SD-CE	6.51	110.62	100.20
4	7	283	MET	CG-SD-CE	6.51	110.62	100.20
4	V	169	TYR	CB-CG-CD2	-6.51	117.09	121.00
1	J	169	ASP	CB-CG-OD1	-6.51	112.44	118.30
1	D	141	LEU	CB-CA-C	-6.50	97.84	110.20
4	5	283	MET	CG-SD-CE	6.50	110.61	100.20
4	1	283	MET	CG-SD-CE	6.50	110.60	100.20
2	Q	141	PRO	N-CD-CG	-6.50	93.45	103.20
1	G	334	THR	CA-CB-CG2	-6.49	103.31	112.40
4	X	169	TYR	CB-CG-CD2	-6.49	117.10	121.00
4	2	159	VAL	CB-CA-C	-6.49	99.06	111.40
1	P	141	LEU	CB-CA-C	-6.49	97.88	110.20
1	D	334	THR	CA-CB-CG2	-6.49	103.32	112.40
4	7	159	VAL	CB-CA-C	-6.49	99.08	111.40
4	Y	169	TYR	CB-CG-CD2	-6.49	117.11	121.00
4	4	159	VAL	CB-CA-C	-6.48	99.08	111.40
1	D	343	PHE	CB-CG-CD1	6.48	125.34	120.80
4	0	159	VAL	CB-CA-C	-6.48	99.08	111.40
4	Y	159	VAL	CB-CA-C	-6.48	99.09	111.40
1	G	589	ASP	CB-CG-OD1	-6.48	112.47	118.30
4	W	159	VAL	CB-CA-C	-6.48	99.09	111.40
1	A	555	TYR	CB-CG-CD2	-6.48	117.11	121.00
2	H	141	PRO	N-CD-CG	-6.47	93.49	103.20
1	P	334	THR	CA-CB-CG2	-6.47	103.34	112.40
4	3	169	TYR	CB-CG-CD2	-6.47	117.12	121.00
4	9	159	VAL	CB-CA-C	-6.47	99.10	111.40
4	V	159	VAL	CB-CA-C	-6.47	99.10	111.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	3	159	VAL	CB-CA-C	-6.47	99.11	111.40
4	Z	196	ARG	NE-CZ-NH1	6.47	123.53	120.30
1	G	590	TYR	CB-CG-CD2	6.47	124.88	121.00
4	1	159	VAL	CB-CA-C	-6.47	99.11	111.40
4	5	159	VAL	CB-CA-C	-6.46	99.12	111.40
4	2	169	TYR	CB-CG-CD2	-6.46	117.12	121.00
4	0	169	TYR	CB-CG-CD2	-6.46	117.12	121.00
4	9	169	TYR	CB-CG-CD2	-6.46	117.12	121.00
1	J	334	THR	CA-CB-CG2	-6.46	103.36	112.40
4	8	159	VAL	CB-CA-C	-6.46	99.13	111.40
1	A	334	THR	CA-CB-CG2	-6.45	103.37	112.40
4	X	159	VAL	CB-CA-C	-6.45	99.14	111.40
4	Z	159	VAL	CB-CA-C	-6.45	99.14	111.40
4	1	169	TYR	CB-CG-CD2	-6.45	117.13	121.00
1	A	141	LEU	CB-CA-C	-6.44	97.96	110.20
1	J	589	ASP	CB-CG-OD1	-6.44	112.50	118.30
4	2	196	ARG	NE-CZ-NH1	6.44	123.52	120.30
1	P	805	ALA	CA-C-N	6.44	131.36	117.20
4	5	34	ILE	CA-CB-CG2	-6.43	98.04	110.90
2	E	141	PRO	N-CD-CG	-6.42	93.56	103.20
1	A	589	ASP	CB-CG-OD1	-6.42	112.52	118.30
4	Y	34	ILE	CA-CB-CG2	-6.42	98.06	110.90
1	D	129	TYR	CB-CG-CD2	-6.42	117.15	121.00
4	V	196	ARG	NE-CZ-NH1	6.41	123.51	120.30
4	7	34	ILE	CA-CB-CG2	-6.41	98.08	110.90
1	D	589	ASP	CB-CG-OD1	-6.41	112.53	118.30
1	P	343	PHE	CB-CG-CD1	6.41	125.29	120.80
4	4	34	ILE	CA-CB-CG2	-6.41	98.08	110.90
4	V	34	ILE	CA-CB-CG2	-6.41	98.08	110.90
4	Z	34	ILE	CA-CB-CG2	-6.41	98.08	110.90
4	W	196	ARG	NE-CZ-NH1	6.41	123.50	120.30
4	3	34	ILE	CA-CB-CG2	-6.41	98.09	110.90
4	0	34	ILE	CA-CB-CG2	-6.40	98.09	110.90
4	W	34	ILE	CA-CB-CG2	-6.40	98.09	110.90
1	P	589	ASP	CB-CG-OD1	-6.40	112.54	118.30
4	0	196	ARG	NE-CZ-NH1	6.40	123.50	120.30
4	1	34	ILE	CA-CB-CG2	-6.39	98.11	110.90
1	D	169	ASP	CB-CG-OD1	-6.39	112.55	118.30
1	G	75	ASP	CB-CG-OD2	6.39	124.05	118.30
2	K	141	PRO	N-CD-CG	-6.39	93.61	103.20
1	P	779	ARG	NE-CZ-NH1	6.39	123.50	120.30
1	J	343	PHE	CB-CG-CD1	6.39	125.27	120.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	X	34	ILE	CA-CB-CG2	-6.39	98.12	110.90
4	9	34	ILE	CA-CB-CG2	-6.39	98.13	110.90
4	2	34	ILE	CA-CB-CG2	-6.38	98.13	110.90
4	8	34	ILE	CA-CB-CG2	-6.38	98.14	110.90
1	A	341	LEU	CB-CA-C	6.37	122.31	110.20
1	G	343	PHE	CB-CG-CD1	6.37	125.26	120.80
1	J	129	TYR	CB-CG-CD2	-6.36	117.18	121.00
1	P	129	TYR	CB-CG-CD2	-6.36	117.19	121.00
1	G	129	TYR	CB-CG-CD2	-6.35	117.19	121.00
1	A	129	TYR	CB-CG-CD2	-6.34	117.19	121.00
1	G	341	LEU	CB-CA-C	6.34	122.25	110.20
1	J	327	ASP	CB-CG-OD2	6.34	124.01	118.30
1	J	341	LEU	CB-CA-C	6.33	122.22	110.20
1	G	578	HIS	N-CA-CB	6.33	121.99	110.60
2	B	141	PRO	N-CD-CG	-6.32	93.72	103.20
1	P	341	LEU	CB-CA-C	6.31	122.20	110.20
4	X	217	CYS	CA-CB-SG	-6.31	102.64	114.00
4	1	217	CYS	CA-CB-SG	-6.30	102.65	114.00
4	3	217	CYS	CA-CB-SG	-6.30	102.66	114.00
4	5	217	CYS	CA-CB-SG	-6.30	102.66	114.00
4	9	217	CYS	CA-CB-SG	-6.30	102.66	114.00
4	0	217	CYS	CA-CB-SG	-6.29	102.67	114.00
4	8	196	ARG	NE-CZ-NH1	6.29	123.45	120.30
4	2	217	CYS	CA-CB-SG	-6.29	102.68	114.00
4	V	217	CYS	CA-CB-SG	-6.29	102.68	114.00
4	Y	217	CYS	CA-CB-SG	-6.29	102.68	114.00
1	J	578	HIS	N-CA-CB	6.28	121.91	110.60
4	8	217	CYS	CA-CB-SG	-6.28	102.69	114.00
1	A	578	HIS	N-CA-CB	6.28	121.91	110.60
1	P	578	HIS	N-CA-CB	6.28	121.91	110.60
4	W	217	CYS	CA-CB-SG	-6.28	102.70	114.00
4	4	217	CYS	CA-CB-SG	-6.27	102.71	114.00
4	7	217	CYS	CA-CB-SG	-6.27	102.71	114.00
4	Z	217	CYS	CA-CB-SG	-6.27	102.71	114.00
1	J	760	PHE	CB-CG-CD2	-6.27	116.41	120.80
1	D	760	PHE	CB-CG-CD2	-6.26	116.42	120.80
1	A	779	ARG	NE-CZ-NH1	6.26	123.43	120.30
1	P	760	PHE	CB-CG-CD2	-6.26	116.42	120.80
1	D	341	LEU	CB-CA-C	6.25	122.08	110.20
1	J	810	ARG	NE-CZ-NH1	6.25	123.43	120.30
1	D	327	ASP	CB-CG-OD2	6.25	123.93	118.30
1	P	327	ASP	CB-CG-OD2	6.25	123.93	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	D	578	HIS	N-CA-CB	6.24	121.82	110.60
2	Q	129	THR	CB-CA-C	-6.23	94.78	111.60
1	D	590	TYR	CB-CG-CD2	6.23	124.74	121.00
1	A	780	ASP	CB-CG-OD2	6.22	123.90	118.30
1	J	104	TYR	CB-CG-CD1	-6.21	117.27	121.00
1	P	810	ARG	NE-CZ-NH1	6.21	123.41	120.30
2	K	129	THR	CB-CA-C	-6.21	94.84	111.60
1	P	104	TYR	CB-CG-CD1	-6.21	117.28	121.00
1	D	779	ARG	NE-CZ-NH1	6.20	123.40	120.30
1	J	779	ARG	NE-CZ-NH1	6.20	123.40	120.30
1	A	698	ASN	CB-CA-C	-6.19	98.02	110.40
1	D	214	MET	CG-SD-CE	6.18	110.10	100.20
2	B	129	THR	CB-CA-C	-6.17	94.93	111.60
2	H	129	THR	CB-CA-C	-6.17	94.94	111.60
2	E	129	THR	CB-CA-C	-6.17	94.94	111.60
1	A	463	ASP	CB-CG-OD2	-6.17	112.75	118.30
1	J	214	MET	CG-SD-CE	6.17	110.06	100.20
2	K	141	PRO	N-CA-CB	-6.17	95.82	102.60
1	G	463	ASP	CB-CG-OD2	-6.16	112.75	118.30
1	J	698	ASN	CB-CA-C	-6.16	98.08	110.40
1	P	214	MET	CG-SD-CE	6.16	110.06	100.20
1	G	327	ASP	CB-CG-OD2	6.14	123.83	118.30
2	Q	141	PRO	N-CA-CB	-6.14	95.84	102.60
1	G	214	MET	CG-SD-CE	6.14	110.03	100.20
1	P	698	ASN	CB-CA-C	-6.14	98.11	110.40
4	X	259	GLU	CA-CB-CG	6.14	126.91	113.40
1	P	682	THR	CA-CB-CG2	-6.14	103.81	112.40
3	R	58	MET	CG-SD-CE	6.13	110.02	100.20
4	7	259	GLU	CA-CB-CG	6.13	126.89	113.40
1	A	214	MET	CG-SD-CE	6.13	110.01	100.20
4	3	259	GLU	CA-CB-CG	6.13	126.89	113.40
4	Y	259	GLU	CA-CB-CG	6.13	126.89	113.40
4	8	259	GLU	CA-CB-CG	6.13	126.88	113.40
4	0	259	GLU	CA-CB-CG	6.13	126.88	113.40
4	5	259	GLU	CA-CB-CG	6.13	126.88	113.40
4	V	259	GLU	CA-CB-CG	6.12	126.88	113.40
4	4	259	GLU	CA-CB-CG	6.12	126.87	113.40
4	2	259	GLU	CA-CB-CG	6.12	126.86	113.40
1	A	327	ASP	CB-CG-OD2	6.12	123.80	118.30
3	F	58	MET	CG-SD-CE	6.12	109.99	100.20
1	P	752	ASP	CB-CG-OD2	6.12	123.80	118.30
4	1	259	GLU	CA-CB-CG	6.12	126.86	113.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	9	259	GLU	CA-CB-CG	6.12	126.85	113.40
1	D	104	TYR	CB-CG-CD1	-6.11	117.33	121.00
4	W	259	GLU	CA-CB-CG	6.11	126.85	113.40
4	Z	259	GLU	CA-CB-CG	6.11	126.85	113.40
1	D	698	ASN	CB-CA-C	-6.11	98.18	110.40
3	L	58	MET	CG-SD-CE	6.11	109.97	100.20
1	P	463	ASP	CB-CG-OD2	-6.11	112.80	118.30
1	G	104	TYR	CB-CG-CD1	-6.10	117.34	121.00
1	G	698	ASN	CB-CA-C	-6.09	98.21	110.40
1	P	590	TYR	CB-CG-CD2	6.09	124.66	121.00
2	H	141	PRO	N-CA-CB	-6.09	95.90	102.60
1	J	682	THR	CA-CB-CG2	-6.09	103.87	112.40
2	E	141	PRO	N-CA-CB	-6.08	95.91	102.60
1	J	463	ASP	CB-CG-OD2	-6.08	112.82	118.30
1	J	752	ASP	CB-CG-OD2	6.08	123.78	118.30
2	B	129	THR	CA-CB-CG2	6.08	120.91	112.40
4	V	116	ARG	NE-CZ-NH1	6.08	123.34	120.30
2	E	129	THR	CA-CB-CG2	6.08	120.91	112.40
1	P	450	ASP	CB-CG-OD1	-6.08	112.83	118.30
1	J	450	ASP	CB-CG-OD1	-6.07	112.84	118.30
4	1	349	LEU	CA-C-N	-6.07	103.84	117.20
4	0	349	LEU	CA-C-N	-6.07	103.85	117.20
2	B	141	PRO	N-CA-CB	-6.07	95.92	102.60
2	K	129	THR	CA-CB-CG2	6.06	120.89	112.40
1	A	810	ARG	NE-CZ-NH1	6.06	123.33	120.30
4	Y	349	LEU	CA-C-N	-6.06	103.86	117.20
2	H	129	THR	CA-CB-CG2	6.06	120.89	112.40
3	I	58	MET	CG-SD-CE	6.06	109.90	100.20
4	4	349	LEU	CA-C-N	-6.06	103.87	117.20
1	A	682	THR	CA-CB-CG2	-6.06	103.92	112.40
1	D	346	ASP	CB-CG-OD1	6.06	123.75	118.30
4	V	349	LEU	CA-C-N	-6.06	103.88	117.20
3	C	58	MET	CG-SD-CE	6.05	109.89	100.20
1	G	779	ARG	NE-CZ-NH1	6.05	123.33	120.30
1	P	625	THR	CA-CB-OG1	6.05	121.71	109.00
4	9	16	LEU	CA-CB-CG	6.05	129.22	115.30
4	9	349	LEU	CA-C-N	-6.05	103.88	117.20
4	7	349	LEU	CA-C-N	-6.05	103.89	117.20
1	D	625	THR	CA-CB-OG1	6.05	121.70	109.00
1	G	625	THR	CA-CB-OG1	6.05	121.70	109.00
4	3	349	LEU	CA-C-N	-6.05	103.89	117.20
4	X	16	LEU	CA-CB-CG	6.05	129.21	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	X	349	LEU	CA-C-N	-6.05	103.90	117.20
4	Z	16	LEU	CA-CB-CG	6.05	129.21	115.30
1	A	760	PHE	CB-CG-CD2	-6.04	116.57	120.80
1	G	810	ARG	NE-CZ-NH1	6.04	123.32	120.30
4	5	349	LEU	CA-C-N	-6.04	103.91	117.20
1	G	760	PHE	CB-CG-CD2	-6.04	116.57	120.80
4	2	349	LEU	CA-C-N	-6.04	103.92	117.20
4	7	335	ARG	NE-CZ-NH2	-6.04	117.28	120.30
4	0	16	LEU	CA-CB-CG	6.04	129.18	115.30
4	7	16	LEU	CA-CB-CG	6.04	129.18	115.30
4	Z	349	LEU	CA-C-N	-6.04	103.92	117.20
4	4	16	LEU	CA-CB-CG	6.03	129.18	115.30
4	8	335	ARG	NE-CZ-NH2	-6.03	117.28	120.30
4	W	16	LEU	CA-CB-CG	6.03	129.18	115.30
4	Y	16	LEU	CA-CB-CG	6.03	129.18	115.30
1	A	665	ARG	NE-CZ-NH2	-6.03	117.28	120.30
1	D	682	THR	CA-CB-CG2	-6.03	103.96	112.40
1	G	682	THR	CA-CB-CG2	-6.03	103.96	112.40
4	1	16	LEU	CA-CB-CG	6.03	129.17	115.30
4	2	16	LEU	CA-CB-CG	6.03	129.17	115.30
1	J	625	THR	CA-CB-OG1	6.03	121.65	109.00
4	8	16	LEU	CA-CB-CG	6.03	129.16	115.30
4	V	16	LEU	CA-CB-CG	6.02	129.15	115.30
1	P	447	GLN	N-CA-CB	6.02	121.44	110.60
4	5	16	LEU	CA-CB-CG	6.02	129.15	115.30
1	G	780	ASP	CB-CG-OD2	6.02	123.72	118.30
1	G	192	VAL	CA-CB-CG1	-6.01	101.88	110.90
4	3	16	LEU	CA-CB-CG	6.01	129.12	115.30
4	W	349	LEU	CA-C-N	-6.01	103.98	117.20
1	G	447	GLN	N-CA-CB	6.00	121.41	110.60
1	G	346	ASP	CB-CG-OD1	6.00	123.70	118.30
1	P	192	VAL	CA-CB-CG1	-6.00	101.90	110.90
1	J	665	ARG	NE-CZ-NH2	-6.00	117.30	120.30
1	A	447	GLN	N-CA-CB	6.00	121.40	110.60
1	D	463	ASP	CB-CG-OD2	-6.00	112.90	118.30
1	J	192	VAL	CA-CB-CG1	-6.00	101.91	110.90
1	J	447	GLN	N-CA-CB	6.00	121.39	110.60
1	D	378	ASP	CB-CG-OD1	-5.99	112.91	118.30
1	G	809	ARG	NE-CZ-NH2	-5.99	117.31	120.30
4	8	349	LEU	CA-C-N	-5.99	104.03	117.20
4	V	335	ARG	NE-CZ-NH2	-5.98	117.31	120.30
1	A	625	THR	CA-CB-OG1	5.98	121.55	109.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	D	810	ARG	NE-CZ-NH1	5.97	123.29	120.30
1	J	754	ASP	CB-CG-OD2	-5.97	112.92	118.30
1	D	447	GLN	N-CA-CB	5.97	121.35	110.60
4	4	335	ARG	NE-CZ-NH2	-5.97	117.31	120.30
1	D	192	VAL	CA-CB-CG1	-5.96	101.95	110.90
1	D	471	ASP	CB-CG-OD1	-5.96	112.94	118.30
1	J	378	ASP	CB-CG-OD1	-5.96	112.94	118.30
1	P	665	ARG	NE-CZ-NH2	-5.96	117.32	120.30
4	1	116	ARG	NE-CZ-NH1	5.96	123.28	120.30
4	X	335	ARG	NE-CZ-NH2	-5.96	117.32	120.30
4	Y	335	ARG	NE-CZ-NH2	-5.95	117.33	120.30
1	G	709	LYS	C-N-CA	5.95	134.79	122.30
1	P	780	ASP	CB-CG-OD2	5.94	123.65	118.30
4	0	335	ARG	NE-CZ-NH2	-5.94	117.33	120.30
4	W	79	TRP	CG-CD2-CE3	5.94	139.24	133.90
1	A	590	TYR	CB-CG-CD2	5.93	124.56	121.00
1	P	378	ASP	CB-CG-OD1	-5.93	112.96	118.30
4	2	335	ARG	NE-CZ-NH2	-5.93	117.34	120.30
1	G	450	ASP	CB-CG-OD1	-5.92	112.97	118.30
1	J	780	ASP	CB-CG-OD2	5.92	123.63	118.30
1	J	590	TYR	CB-CG-CD2	5.92	124.55	121.00
1	G	752	ASP	CB-CG-OD2	5.92	123.63	118.30
1	D	754	ASP	CB-CG-OD2	-5.91	112.98	118.30
1	G	378	ASP	CB-CG-OD1	-5.91	112.98	118.30
2	Q	129	THR	CA-CB-CG2	5.91	120.68	112.40
1	A	192	VAL	CA-CB-CG1	-5.91	102.04	110.90
4	3	79	TRP	CG-CD2-CE3	5.91	139.21	133.90
1	D	450	ASP	CB-CG-OD1	-5.90	112.99	118.30
1	J	471	ASP	CB-CG-OD1	-5.90	112.99	118.30
4	4	79	TRP	CG-CD2-CE3	5.90	139.21	133.90
1	A	754	ASP	CB-CG-OD2	-5.90	112.99	118.30
1	A	815	CYS	CA-CB-SG	-5.90	103.38	114.00
4	X	116	ARG	NE-CZ-NH1	5.90	123.25	120.30
1	A	378	ASP	CB-CG-OD1	-5.90	112.99	118.30
1	A	104	TYR	CB-CG-CD1	-5.90	117.46	121.00
4	9	335	ARG	NE-CZ-NH2	-5.89	117.35	120.30
1	D	780	ASP	CB-CG-OD2	5.89	123.60	118.30
1	G	754	ASP	CB-CG-OD2	-5.89	113.00	118.30
1	G	665	ARG	NE-CZ-NH2	-5.89	117.36	120.30
4	1	79	TRP	CG-CD2-CE3	5.89	139.20	133.90
4	2	79	TRP	CG-CD2-CE3	5.89	139.20	133.90
1	D	738	MET	CG-SD-CE	5.88	109.61	100.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	G	738	MET	CG-SD-CE	5.88	109.61	100.20
1	G	780	ASP	CB-CG-OD1	-5.88	113.00	118.30
4	7	79	TRP	CG-CD2-CE3	5.88	139.19	133.90
4	3	200	PHE	CA-C-N	-5.88	104.27	117.20
4	8	79	TRP	CG-CD2-CE3	5.88	139.19	133.90
4	5	335	ARG	NE-CZ-NH2	-5.88	117.36	120.30
1	P	738	MET	CG-SD-CE	5.87	109.60	100.20
1	P	471	ASP	CB-CG-OD1	-5.87	113.02	118.30
4	3	335	ARG	NE-CZ-NH2	-5.87	117.36	120.30
4	4	116	ARG	NE-CZ-NH1	5.87	123.23	120.30
4	1	200	PHE	CA-C-N	-5.87	104.29	117.20
1	D	339	ASP	CB-CG-OD2	5.87	123.58	118.30
1	J	815	CYS	CA-CB-SG	-5.87	103.44	114.00
1	P	754	ASP	CB-CG-OD2	-5.87	113.02	118.30
4	5	79	TRP	CG-CD2-CE3	5.87	139.18	133.90
4	9	200	PHE	CA-C-N	-5.87	104.30	117.20
4	W	200	PHE	CA-C-N	-5.87	104.30	117.20
4	Y	79	TRP	CG-CD2-CE3	5.87	139.18	133.90
1	G	339	ASP	CB-CG-OD2	5.86	123.58	118.30
4	X	79	TRP	CG-CD2-CE3	5.86	139.18	133.90
4	0	200	PHE	CA-C-N	-5.86	104.30	117.20
4	3	116	ARG	NE-CZ-NH1	5.86	123.23	120.30
1	D	665	ARG	NE-CZ-NH2	-5.86	117.37	120.30
1	A	752	ASP	CB-CG-OD2	5.86	123.57	118.30
4	5	200	PHE	CA-C-N	-5.86	104.31	117.20
4	8	254	ARG	NE-CZ-NH1	5.86	123.23	120.30
4	0	79	TRP	CG-CD2-CE3	5.86	139.17	133.90
4	2	116	ARG	NE-CZ-NH1	5.86	123.23	120.30
4	Y	200	PHE	CA-C-N	-5.86	104.32	117.20
4	2	200	PHE	CA-C-N	-5.85	104.32	117.20
4	7	200	PHE	CA-C-N	-5.85	104.33	117.20
4	V	200	PHE	CA-C-N	-5.85	104.33	117.20
4	W	116	ARG	NE-CZ-NH1	5.85	123.23	120.30
4	X	200	PHE	CA-C-N	-5.85	104.33	117.20
1	A	738	MET	CG-SD-CE	5.85	109.56	100.20
4	4	200	PHE	CA-C-N	-5.85	104.34	117.20
1	J	738	MET	CG-SD-CE	5.84	109.55	100.20
4	Z	200	PHE	CA-C-N	-5.84	104.34	117.20
4	8	200	PHE	CA-C-N	-5.84	104.35	117.20
4	9	79	TRP	CG-CD2-CE3	5.84	139.16	133.90
1	D	809	ARG	NE-CZ-NH2	-5.84	117.38	120.30
4	V	79	TRP	CG-CD2-CE3	5.84	139.15	133.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	450	ASP	CB-CG-OD1	-5.83	113.05	118.30
1	J	346	ASP	CB-CG-OD1	5.83	123.55	118.30
4	4	95	ARG	CA-CB-CG	5.83	126.22	113.40
1	D	556	ASP	CB-CG-OD1	-5.83	113.06	118.30
1	A	780	ASP	CB-CG-OD1	-5.82	113.06	118.30
4	5	95	ARG	CA-CB-CG	5.82	126.21	113.40
4	7	116	ARG	NE-CZ-NH1	5.82	123.21	120.30
1	A	809	ARG	NE-CZ-NH2	-5.82	117.39	120.30
1	P	556	ASP	CB-CG-OD1	-5.82	113.06	118.30
4	4	254	ARG	NE-CZ-NH1	5.82	123.21	120.30
4	Y	116	ARG	NE-CZ-NH1	5.81	123.21	120.30
1	P	815	CYS	CA-CB-SG	-5.81	103.54	114.00
1	D	752	ASP	CB-CG-OD2	5.81	123.53	118.30
4	Z	95	ARG	CA-CB-CG	5.81	126.18	113.40
4	0	95	ARG	CA-CB-CG	5.81	126.17	113.40
4	Z	116	ARG	NE-CZ-NH1	5.81	123.20	120.30
4	Z	254	ARG	NE-CZ-NH1	5.81	123.20	120.30
4	X	95	ARG	CA-CB-CG	5.80	126.17	113.40
1	G	556	ASP	CB-CG-OD1	-5.80	113.08	118.30
1	A	4	ASP	CB-CG-OD2	5.79	123.52	118.30
4	9	95	ARG	CA-CB-CG	5.79	126.15	113.40
1	J	809	ARG	NE-CZ-NH2	-5.79	117.40	120.30
4	3	95	ARG	CA-CB-CG	5.79	126.14	113.40
4	8	95	ARG	CA-CB-CG	5.79	126.14	113.40
1	D	815	CYS	CA-CB-SG	-5.79	103.58	114.00
4	Y	95	ARG	CA-CB-CG	5.78	126.12	113.40
4	V	95	ARG	CA-CB-CG	5.78	126.12	113.40
1	G	471	ASP	CB-CG-OD1	-5.78	113.10	118.30
1	J	556	ASP	CB-CG-OD1	-5.78	113.10	118.30
1	P	339	ASP	CB-CG-OD2	5.78	123.50	118.30
1	P	346	ASP	CB-CG-OD1	5.78	123.50	118.30
1	P	4	ASP	CB-CG-OD2	5.77	123.49	118.30
1	J	339	ASP	CB-CG-OD2	5.77	123.49	118.30
4	Z	79	TRP	CG-CD2-CE3	5.77	139.09	133.90
1	A	471	ASP	CB-CG-OD1	-5.77	113.11	118.30
4	W	95	ARG	CA-CB-CG	5.76	126.08	113.40
4	W	335	ARG	NE-CZ-NH2	-5.76	117.42	120.30
4	7	95	ARG	CA-CB-CG	5.76	126.07	113.40
4	1	335	ARG	NE-CZ-NH2	-5.76	117.42	120.30
1	A	556	ASP	CB-CG-OD1	-5.75	113.12	118.30
4	X	254	ARG	NE-CZ-NH1	5.75	123.18	120.30
1	G	165	PHE	N-CA-CB	-5.75	100.25	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	2	95	ARG	CA-CB-CG	5.75	126.06	113.40
1	A	339	ASP	CB-CG-OD2	5.75	123.47	118.30
2	H	149	ASP	N-CA-CB	5.75	120.95	110.60
4	1	95	ARG	CA-CB-CG	5.75	126.05	113.40
1	J	165	PHE	N-CA-CB	-5.75	100.26	110.60
1	G	4	ASP	CB-CG-OD2	5.74	123.47	118.30
1	J	4	ASP	CB-CG-OD2	5.74	123.46	118.30
2	B	149	ASP	N-CA-CB	5.74	120.93	110.60
4	0	254	ARG	NE-CZ-NH1	5.73	123.17	120.30
1	P	165	PHE	N-CA-CB	-5.73	100.29	110.60
1	A	165	PHE	N-CA-CB	-5.72	100.30	110.60
1	A	346	ASP	CB-CG-OD1	5.72	123.45	118.30
4	9	254	ARG	NE-CZ-NH1	5.72	123.16	120.30
1	D	352	TYR	N-CA-CB	5.72	120.89	110.60
4	1	254	ARG	NE-CZ-NH1	5.72	123.16	120.30
4	8	335	ARG	CA-CB-CG	5.71	125.97	113.40
1	D	165	PHE	N-CA-CB	-5.71	100.32	110.60
1	D	4	ASP	CB-CG-OD2	5.71	123.44	118.30
1	G	815	CYS	CA-CB-SG	-5.71	103.72	114.00
4	0	335	ARG	CA-CB-CG	5.71	125.96	113.40
4	3	335	ARG	CA-CB-CG	5.71	125.95	113.40
4	4	335	ARG	CA-CB-CG	5.71	125.95	113.40
4	Y	335	ARG	CA-CB-CG	5.71	125.95	113.40
4	2	254	ARG	NE-CZ-NH1	5.70	123.15	120.30
4	W	335	ARG	CA-CB-CG	5.70	125.94	113.40
4	9	335	ARG	CA-CB-CG	5.70	125.94	113.40
4	X	335	ARG	CA-CB-CG	5.70	125.94	113.40
1	D	781	ASP	CB-CG-OD2	5.70	123.43	118.30
4	Z	335	ARG	CA-CB-CG	5.70	125.93	113.40
4	5	116	ARG	NE-CZ-NH1	5.70	123.15	120.30
4	7	335	ARG	CA-CB-CG	5.70	125.93	113.40
4	V	335	ARG	CA-CB-CG	5.70	125.93	113.40
4	W	254	ARG	NE-CZ-NH1	5.69	123.15	120.30
4	5	254	ARG	NE-CZ-NH1	5.69	123.14	120.30
1	P	780	ASP	CB-CG-OD1	-5.69	113.18	118.30
4	Z	335	ARG	NE-CZ-NH2	-5.69	117.46	120.30
4	5	335	ARG	CA-CB-CG	5.68	125.90	113.40
1	D	780	ASP	CB-CG-OD1	-5.68	113.19	118.30
4	9	116	ARG	NE-CZ-NH1	5.68	123.14	120.30
2	K	149	ASP	N-CA-CB	5.68	120.82	110.60
1	G	693	HIS	CA-CB-CG	-5.67	103.96	113.60
4	0	116	ARG	NE-CZ-NH1	5.67	123.13	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	2	335	ARG	CA-CB-CG	5.67	125.87	113.40
4	8	116	ARG	NE-CZ-NH1	5.67	123.13	120.30
4	V	254	ARG	NE-CZ-NH1	5.66	123.13	120.30
4	1	335	ARG	CA-CB-CG	5.66	125.85	113.40
1	G	785	GLU	O-C-N	5.66	131.75	122.70
1	P	693	HIS	CA-CB-CG	-5.65	104.00	113.60
1	J	780	ASP	CB-CG-OD1	-5.65	113.22	118.30
1	P	809	ARG	NE-CZ-NH2	-5.63	117.48	120.30
1	G	352	TYR	N-CA-CB	5.63	120.74	110.60
4	Y	279	TYR	CB-CG-CD2	-5.63	117.62	121.00
2	Q	149	ASP	N-CA-CB	5.63	120.73	110.60
4	Y	356	TRP	CG-CD2-CE3	5.62	138.96	133.90
1	D	693	HIS	CA-CB-CG	-5.62	104.05	113.60
2	E	149	ASP	N-CA-CB	5.61	120.70	110.60
1	J	352	TYR	N-CA-CB	5.61	120.71	110.60
1	P	352	TYR	N-CA-CB	5.61	120.70	110.60
1	J	693	HIS	CA-CB-CG	-5.61	104.06	113.60
4	7	356	TRP	CG-CD2-CE3	5.61	138.95	133.90
1	A	781	ASP	CB-CG-OD2	5.61	123.34	118.30
4	W	294	TYR	CB-CG-CD2	-5.61	117.64	121.00
4	Y	254	ARG	NE-CZ-NH1	5.60	123.10	120.30
4	V	113	LYS	CA-CB-CG	5.59	125.70	113.40
4	Y	113	LYS	CA-CB-CG	5.59	125.70	113.40
4	X	113	LYS	CA-CB-CG	5.58	125.69	113.40
4	1	113	LYS	CA-CB-CG	5.58	125.68	113.40
4	3	113	LYS	CA-CB-CG	5.58	125.68	113.40
4	7	113	LYS	CA-CB-CG	5.58	125.68	113.40
4	0	294	TYR	CB-CG-CD2	-5.58	117.65	121.00
4	W	279	TYR	CB-CG-CD2	-5.58	117.65	121.00
1	A	352	TYR	N-CA-CB	5.58	120.64	110.60
4	3	254	ARG	NE-CZ-NH1	5.58	123.09	120.30
1	P	33	ASP	CB-CG-OD2	5.58	123.32	118.30
4	0	113	LYS	CA-CB-CG	5.58	125.67	113.40
4	9	113	LYS	CA-CB-CG	5.58	125.66	113.40
1	D	306	THR	CA-CB-CG2	-5.57	104.60	112.40
1	G	781	ASP	CB-CG-OD2	5.57	123.32	118.30
4	2	356	TRP	CG-CD2-CE3	5.57	138.92	133.90
4	W	113	LYS	CA-CB-CG	5.57	125.66	113.40
4	8	113	LYS	CA-CB-CG	5.57	125.65	113.40
4	2	113	LYS	CA-CB-CG	5.57	125.65	113.40
4	4	113	LYS	CA-CB-CG	5.57	125.65	113.40
4	Z	113	LYS	CA-CB-CG	5.57	125.65	113.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	3	254	ARG	N-CA-CB	-5.57	100.58	110.60
4	5	113	LYS	CA-CB-CG	5.57	125.65	113.40
4	1	11	ASP	CB-CG-OD1	5.56	123.31	118.30
1	D	752	ASP	CB-CA-C	5.56	121.52	110.40
1	J	33	ASP	CB-CG-OD2	5.56	123.30	118.30
4	4	279	TYR	CB-CG-CD2	-5.56	117.67	121.00
4	7	11	ASP	CB-CG-OD1	5.56	123.30	118.30
1	A	693	HIS	CA-CB-CG	-5.55	104.16	113.60
4	2	254	ARG	N-CA-CB	-5.55	100.60	110.60
4	2	294	TYR	CB-CG-CD2	-5.55	117.67	121.00
4	8	254	ARG	N-CA-CB	-5.55	100.61	110.60
4	9	294	TYR	CB-CG-CD2	-5.55	117.67	121.00
4	1	279	TYR	CB-CG-CD2	-5.55	117.67	121.00
1	G	686	MET	N-CA-CB	-5.55	100.62	110.60
4	9	356	TRP	CG-CD2-CE3	5.55	138.89	133.90
4	7	254	ARG	NE-CZ-NH1	5.54	123.07	120.30
4	Y	254	ARG	N-CA-CB	-5.54	100.62	110.60
4	X	254	ARG	N-CA-CB	-5.54	100.62	110.60
4	0	254	ARG	N-CA-CB	-5.54	100.62	110.60
4	Z	294	TYR	CB-CG-CD2	-5.54	117.68	121.00
1	A	752	ASP	CB-CA-C	5.54	121.48	110.40
4	8	279	TYR	CB-CG-CD2	-5.54	117.68	121.00
1	A	241	ASP	CB-CG-OD2	5.53	123.28	118.30
4	1	254	ARG	N-CA-CB	-5.53	100.64	110.60
4	W	356	TRP	CG-CD2-CE3	5.53	138.88	133.90
1	G	320	ILE	CB-CA-C	-5.53	100.54	111.60
1	P	686	MET	N-CA-CB	-5.53	100.65	110.60
1	P	320	ILE	CB-CA-C	-5.53	100.54	111.60
1	P	343	PHE	CB-CG-CD2	-5.53	116.93	120.80
4	7	279	TYR	CB-CG-CD2	-5.53	117.69	121.00
4	W	254	ARG	N-CA-CB	-5.53	100.65	110.60
4	X	294	TYR	CB-CG-CD2	-5.53	117.68	121.00
4	V	254	ARG	N-CA-CB	-5.52	100.66	110.60
1	J	326	ASP	CB-CG-OD2	5.52	123.27	118.30
4	4	294	TYR	CB-CG-CD2	-5.52	117.69	121.00
4	5	254	ARG	N-CA-CB	-5.52	100.66	110.60
4	7	254	ARG	N-CA-CB	-5.52	100.66	110.60
4	7	294	TYR	CB-CG-CD2	-5.52	117.69	121.00
4	9	254	ARG	N-CA-CB	-5.52	100.66	110.60
1	G	306	THR	CA-CB-CG2	-5.52	104.67	112.40
1	J	686	MET	N-CA-CB	-5.52	100.66	110.60
4	5	356	TRP	CG-CD2-CE3	5.52	138.87	133.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	8	356	TRP	CG-CD2-CE3	5.52	138.87	133.90
4	X	279	TYR	CB-CG-CD2	-5.52	117.69	121.00
4	9	279	TYR	CB-CG-CD2	-5.51	117.69	121.00
4	3	294	TYR	CB-CG-CD2	-5.51	117.69	121.00
4	1	356	TRP	CG-CD2-CE3	5.51	138.86	133.90
1	A	686	MET	N-CA-CB	-5.51	100.69	110.60
1	J	752	ASP	CB-CA-C	5.51	121.42	110.40
4	2	11	ASP	CB-CG-OD1	5.51	123.26	118.30
4	3	356	TRP	CG-CD2-CE3	5.50	138.85	133.90
1	P	781	ASP	CB-CG-OD2	5.50	123.25	118.30
4	5	279	TYR	CB-CG-CD2	-5.50	117.70	121.00
4	Y	294	TYR	CB-CG-CD2	-5.50	117.70	121.00
4	Z	279	TYR	CB-CG-CD2	-5.50	117.70	121.00
4	4	254	ARG	N-CA-CB	-5.50	100.70	110.60
1	G	752	ASP	CB-CA-C	5.50	121.39	110.40
1	J	320	ILE	CB-CA-C	-5.49	100.61	111.60
4	0	279	TYR	CB-CG-CD2	-5.49	117.70	121.00
4	V	356	TRP	CG-CD2-CE3	5.49	138.84	133.90
1	D	547	ASP	CB-CG-OD2	5.49	123.24	118.30
4	2	279	TYR	CB-CG-CD2	-5.49	117.71	121.00
4	8	11	ASP	CB-CG-OD1	5.48	123.24	118.30
4	1	294	TYR	CB-CG-CD2	-5.48	117.71	121.00
4	X	11	ASP	CB-CG-OD1	5.48	123.23	118.30
4	Z	254	ARG	N-CA-CB	-5.48	100.74	110.60
4	0	147	ARG	NE-CZ-NH2	-5.48	117.56	120.30
1	A	320	ILE	CB-CA-C	-5.47	100.65	111.60
4	4	11	ASP	CB-CG-OD1	5.47	123.23	118.30
4	0	356	TRP	CG-CD2-CE3	5.47	138.82	133.90
4	3	279	TYR	CB-CG-CD2	-5.47	117.72	121.00
4	Y	147	ARG	NE-CZ-NH2	-5.47	117.57	120.30
1	A	306	THR	CA-CB-CG2	-5.46	104.75	112.40
1	D	33	ASP	CB-CG-OD2	5.46	123.22	118.30
4	8	294	TYR	CB-CG-CD2	-5.46	117.72	121.00
1	D	326	ASP	CB-CG-OD2	5.46	123.21	118.30
1	D	686	MET	N-CA-CB	-5.46	100.77	110.60
1	P	547	ASP	CB-CG-OD2	5.46	123.21	118.30
1	P	752	ASP	CB-CA-C	5.46	121.31	110.40
4	3	11	ASP	CB-CG-OD1	5.46	123.21	118.30
4	3	79	TRP	CB-CG-CD1	-5.46	119.91	127.00
1	D	384	ASP	CB-CG-OD1	-5.46	113.39	118.30
4	4	356	TRP	CB-CG-CD1	-5.45	119.91	127.00
4	9	11	ASP	CB-CG-OD1	5.45	123.21	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	P	306	THR	CA-CB-CG2	-5.45	104.77	112.40
4	5	11	ASP	CB-CG-OD1	5.45	123.20	118.30
1	D	320	ILE	CB-CA-C	-5.45	100.70	111.60
1	A	384	ASP	CB-CG-OD1	-5.44	113.40	118.30
1	J	547	ASP	CB-CG-OD2	5.44	123.20	118.30
4	5	356	TRP	CB-CG-CD1	-5.44	119.92	127.00
1	A	723	ARG	NE-CZ-NH1	5.44	123.02	120.30
4	5	294	TYR	CB-CG-CD2	-5.44	117.74	121.00
4	0	356	TRP	CB-CG-CD1	-5.44	119.93	127.00
1	D	723	ARG	NE-CZ-NH1	5.44	123.02	120.30
4	W	11	ASP	CB-CG-OD1	5.44	123.19	118.30
4	1	356	TRP	CB-CG-CD1	-5.44	119.93	127.00
4	X	356	TRP	CB-CG-CD1	-5.44	119.93	127.00
4	V	294	TYR	CB-CG-CD2	-5.43	117.74	121.00
4	Z	79	TRP	CB-CG-CD1	-5.43	119.93	127.00
4	Z	356	TRP	CG-CD2-CE3	5.43	138.79	133.90
1	J	306	THR	CA-CB-CG2	-5.43	104.80	112.40
1	A	343	PHE	CB-CG-CD2	-5.43	117.00	120.80
4	3	356	TRP	CB-CG-CD1	-5.42	119.95	127.00
4	V	279	TYR	CB-CG-CD2	-5.42	117.75	121.00
4	V	356	TRP	CB-CG-CD1	-5.42	119.95	127.00
4	Y	356	TRP	CB-CG-CD1	-5.42	119.96	127.00
4	7	356	TRP	CB-CG-CD1	-5.42	119.96	127.00
4	9	356	TRP	CB-CG-CD1	-5.42	119.96	127.00
4	1	79	TRP	CB-CG-CD1	-5.41	119.97	127.00
4	7	79	TRP	CB-CG-CD1	-5.41	119.97	127.00
4	W	356	TRP	CB-CG-CD1	-5.41	119.97	127.00
1	D	601	ASP	CB-CG-OD2	5.41	123.17	118.30
1	J	343	PHE	CB-CG-CD2	-5.41	117.01	120.80
4	0	79	TRP	CB-CG-CD1	-5.41	119.97	127.00
4	8	356	TRP	CB-CG-CD1	-5.41	119.97	127.00
4	Y	11	ASP	CB-CG-OD1	5.41	123.17	118.30
4	2	147	ARG	NE-CZ-NH2	-5.40	117.60	120.30
4	5	356	TRP	CG-CD1-NE1	-5.40	104.70	110.10
1	G	218	LEU	O-C-N	5.40	131.34	122.70
4	W	79	TRP	CB-CG-CD1	-5.40	119.98	127.00
4	8	356	TRP	CG-CD1-NE1	-5.40	104.70	110.10
4	Z	11	ASP	CB-CG-OD1	5.40	123.16	118.30
4	Z	356	TRP	CB-CG-CD1	-5.40	119.98	127.00
4	2	356	TRP	CB-CG-CD1	-5.40	119.98	127.00
4	5	79	TRP	CB-CG-CD1	-5.40	119.98	127.00
4	8	79	TRP	CB-CG-CD1	-5.40	119.98	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	X	79	TRP	CB-CG-CD1	-5.40	119.98	127.00
1	A	686	MET	CG-SD-CE	-5.39	91.57	100.20
1	D	241	ASP	CB-CG-OD2	5.39	123.15	118.30
1	J	781	ASP	CB-CG-OD2	5.39	123.15	118.30
1	P	326	ASP	CB-CG-OD2	5.39	123.15	118.30
4	V	147	ARG	NE-CZ-NH2	-5.39	117.60	120.30
4	4	356	TRP	CG-CD1-NE1	-5.39	104.71	110.10
4	9	79	TRP	CB-CG-CD1	-5.39	120.00	127.00
4	Y	79	TRP	CB-CG-CD1	-5.39	120.00	127.00
1	J	384	ASP	CB-CG-OD1	-5.39	113.45	118.30
4	V	11	ASP	CB-CG-OD1	5.39	123.15	118.30
4	X	356	TRP	CG-CD2-CE3	5.39	138.75	133.90
1	D	343	PHE	CB-CG-CD2	-5.38	117.03	120.80
1	P	686	MET	CG-SD-CE	-5.38	91.58	100.20
4	8	335	ARG	NE-CZ-NH1	5.38	122.99	120.30
4	9	356	TRP	CG-CD1-NE1	-5.38	104.72	110.10
1	P	384	ASP	CB-CG-OD1	-5.38	113.46	118.30
1	P	723	ARG	NE-CZ-NH1	5.38	122.99	120.30
4	4	356	TRP	CG-CD2-CE3	5.37	138.74	133.90
4	V	79	TRP	CB-CG-CD1	-5.37	120.02	127.00
1	G	686	MET	CG-SD-CE	-5.37	91.61	100.20
2	K	136	MET	CG-SD-CE	5.37	108.79	100.20
1	G	33	ASP	CB-CG-OD2	5.37	123.13	118.30
4	1	356	TRP	CG-CD1-NE1	-5.37	104.73	110.10
1	A	33	ASP	CB-CG-OD2	5.36	123.13	118.30
4	X	356	TRP	CG-CD1-NE1	-5.36	104.74	110.10
4	Y	356	TRP	CG-CD1-NE1	-5.36	104.74	110.10
2	B	136	MET	CG-SD-CE	5.36	108.77	100.20
4	V	356	TRP	CG-CD1-NE1	-5.36	104.74	110.10
4	0	11	ASP	CB-CG-OD1	5.36	123.12	118.30
4	0	356	TRP	CG-CD1-NE1	-5.36	104.74	110.10
4	2	251	GLY	CA-C-N	-5.36	105.42	117.20
4	8	251	GLY	CA-C-N	-5.36	105.42	117.20
1	J	723	ARG	NE-CZ-NH1	5.35	122.98	120.30
1	A	326	ASP	CB-CG-OD2	5.35	123.12	118.30
4	0	251	GLY	CA-C-N	-5.35	105.43	117.20
4	2	79	TRP	CB-CG-CD1	-5.35	120.04	127.00
1	G	326	ASP	CB-CG-OD2	5.35	123.11	118.30
1	J	800	ARG	NH1-CZ-NH2	5.35	125.28	119.40
1	P	218	LEU	O-C-N	5.35	131.26	122.70
4	4	79	TRP	CB-CG-CD1	-5.35	120.05	127.00
4	Z	251	GLY	CA-C-N	-5.35	105.44	117.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	3	356	TRP	CG-CD1-NE1	-5.35	104.75	110.10
1	J	686	MET	CG-SD-CE	-5.34	91.65	100.20
4	1	251	GLY	CA-C-N	-5.34	105.44	117.20
4	V	251	GLY	CA-C-N	-5.34	105.44	117.20
4	W	251	GLY	CA-C-N	-5.34	105.44	117.20
1	D	800	ARG	NH1-CZ-NH2	5.34	125.28	119.40
4	5	251	GLY	CA-C-N	-5.34	105.45	117.20
4	Y	251	GLY	CA-C-N	-5.34	105.45	117.20
4	9	251	GLY	CA-C-N	-5.34	105.45	117.20
4	4	251	GLY	CA-C-N	-5.34	105.46	117.20
4	7	251	GLY	CA-C-N	-5.34	105.46	117.20
1	J	218	LEU	O-C-N	5.33	131.23	122.70
1	J	601	ASP	CB-CG-OD2	5.33	123.10	118.30
4	3	251	GLY	CA-C-N	-5.33	105.47	117.20
4	7	356	TRP	CG-CD1-NE1	-5.33	104.77	110.10
1	P	800	ARG	NH1-CZ-NH2	5.33	125.26	119.40
4	1	147	ARG	NE-CZ-NH2	-5.33	117.64	120.30
4	X	251	GLY	CA-C-N	-5.33	105.48	117.20
1	G	125	THR	CA-CB-CG2	-5.33	104.94	112.40
4	V	176	MET	CG-SD-CE	5.32	108.72	100.20
4	W	356	TRP	CG-CD1-NE1	-5.32	104.78	110.10
4	9	176	MET	CG-SD-CE	5.32	108.72	100.20
1	D	686	MET	CG-SD-CE	-5.32	91.69	100.20
1	G	660	LEU	CB-CG-CD2	5.32	120.05	111.00
1	P	170	ARG	NE-CZ-NH1	5.32	122.96	120.30
4	Z	176	MET	CG-SD-CE	5.32	108.71	100.20
1	G	241	ASP	CB-CG-OD2	5.32	123.09	118.30
1	A	601	ASP	CB-CG-OD2	5.32	123.08	118.30
1	G	601	ASP	CB-CG-OD2	5.32	123.08	118.30
4	7	176	MET	CG-SD-CE	5.32	108.71	100.20
4	W	176	MET	CG-SD-CE	5.32	108.71	100.20
2	H	136	MET	CG-SD-CE	5.31	108.70	100.20
4	2	356	TRP	CG-CD1-NE1	-5.31	104.79	110.10
1	D	760	PHE	CB-CG-CD1	5.31	124.52	120.80
1	G	723	ARG	NE-CZ-NH1	5.31	122.96	120.30
2	Q	136	MET	CG-SD-CE	5.31	108.70	100.20
4	8	147	ARG	NE-CZ-NH2	-5.30	117.65	120.30
4	X	176	MET	CG-SD-CE	5.30	108.69	100.20
1	G	384	ASP	CB-CG-OD1	-5.30	113.53	118.30
4	Z	356	TRP	CG-CD1-NE1	-5.30	104.80	110.10
1	D	354	LEU	CB-CG-CD2	-5.30	101.99	111.00
4	5	176	MET	CG-SD-CE	5.30	108.67	100.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	4	176	MET	CG-SD-CE	5.29	108.67	100.20
4	Y	335	ARG	NE-CZ-NH1	5.29	122.95	120.30
2	E	136	MET	CG-SD-CE	5.29	108.67	100.20
4	0	176	MET	CG-SD-CE	5.29	108.67	100.20
1	J	241	ASP	CB-CG-OD2	5.29	123.06	118.30
1	A	125	THR	CA-CB-CG2	-5.29	105.00	112.40
1	A	354	LEU	CB-CG-CD2	-5.28	102.02	111.00
1	D	125	THR	CA-CB-CG2	-5.28	105.00	112.40
1	P	241	ASP	CB-CG-OD2	5.28	123.05	118.30
4	7	147	ARG	NE-CZ-NH2	-5.28	117.66	120.30
4	8	176	MET	CG-SD-CE	5.28	108.66	100.20
1	P	125	THR	CA-CB-CG2	-5.28	105.01	112.40
1	P	660	LEU	CB-CG-CD2	5.28	119.98	111.00
1	P	354	LEU	CB-CG-CD2	-5.28	102.02	111.00
4	1	176	MET	CG-SD-CE	5.28	108.65	100.20
1	J	660	LEU	CB-CG-CD2	5.28	119.97	111.00
4	0	335	ARG	NE-CZ-NH1	5.28	122.94	120.30
4	3	176	MET	CG-SD-CE	5.28	108.64	100.20
1	G	4	ASP	CB-CG-OD1	-5.27	113.55	118.30
4	Y	176	MET	CG-SD-CE	5.27	108.64	100.20
1	J	125	THR	CA-CB-CG2	-5.27	105.02	112.40
1	P	4	ASP	CB-CG-OD1	-5.27	113.56	118.30
1	P	601	ASP	CB-CG-OD2	5.27	123.04	118.30
1	G	354	LEU	CB-CG-CD2	-5.27	102.05	111.00
4	V	335	ARG	NE-CZ-NH1	5.27	122.93	120.30
1	P	760	PHE	CB-CG-CD1	5.26	124.48	120.80
4	3	337	TYR	CB-CG-CD1	-5.26	117.85	121.00
1	D	660	LEU	CB-CG-CD2	5.25	119.93	111.00
4	4	147	ARG	NE-CZ-NH2	-5.25	117.67	120.30
1	G	547	ASP	CB-CG-OD2	5.25	123.03	118.30
1	J	354	LEU	CB-CG-CD2	-5.25	102.07	111.00
4	2	176	MET	CG-SD-CE	5.25	108.60	100.20
1	A	800	ARG	NH1-CZ-NH2	5.25	125.17	119.40
4	3	147	ARG	NE-CZ-NH2	-5.25	117.68	120.30
1	G	800	ARG	NH1-CZ-NH2	5.24	125.17	119.40
1	A	218	LEU	O-C-N	5.24	131.09	122.70
1	J	760	PHE	CB-CG-CD1	5.24	124.47	120.80
4	2	335	ARG	NE-CZ-NH1	5.24	122.92	120.30
4	9	335	ARG	NE-CZ-NH1	5.24	122.92	120.30
1	D	170	ARG	NE-CZ-NH1	5.23	122.92	120.30
1	A	660	LEU	CB-CG-CD2	5.23	119.89	111.00
1	G	170	ARG	NE-CZ-NH1	5.23	122.92	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	D	218	LEU	O-C-N	5.23	131.06	122.70
4	1	335	ARG	NE-CZ-NH1	5.23	122.91	120.30
1	J	4	ASP	CB-CG-OD1	-5.22	113.60	118.30
4	X	147	ARG	NE-CZ-NH2	-5.22	117.69	120.30
1	J	170	ARG	NE-CZ-NH1	5.22	122.91	120.30
4	1	62	ARG	NE-CZ-NH1	5.22	122.91	120.30
4	7	62	ARG	NE-CZ-NH1	5.22	122.91	120.30
4	Z	335	ARG	NE-CZ-NH1	5.22	122.91	120.30
4	Z	147	ARG	NE-CZ-NH2	-5.22	117.69	120.30
4	7	335	ARG	NE-CZ-NH1	5.21	122.91	120.30
1	P	346	ASP	N-CA-CB	-5.21	101.22	110.60
1	J	346	ASP	N-CA-CB	-5.21	101.22	110.60
1	A	4	ASP	CB-CG-OD1	-5.21	113.61	118.30
4	9	62	ARG	NE-CZ-NH1	5.21	122.90	120.30
1	P	555	TYR	CB-CG-CD1	5.20	124.12	121.00
4	5	147	ARG	NE-CZ-NH2	-5.20	117.70	120.30
1	A	346	ASP	N-CA-CB	-5.20	101.25	110.60
1	A	90	ASP	CB-CG-OD1	-5.20	113.62	118.30
1	A	547	ASP	CB-CG-OD2	5.19	122.97	118.30
1	G	760	PHE	CB-CG-CD1	5.19	124.43	120.80
4	0	91	TYR	CB-CG-CD2	-5.19	117.89	121.00
4	0	62	ARG	NE-CZ-NH1	5.19	122.89	120.30
1	D	346	ASP	N-CA-CB	-5.18	101.28	110.60
4	3	91	TYR	CB-CG-CD2	-5.18	117.89	121.00
4	Y	290	ARG	CA-C-N	5.17	128.58	117.20
4	7	53	TYR	CB-CG-CD1	-5.17	117.90	121.00
1	G	343	PHE	CB-CG-CD2	-5.17	117.18	120.80
4	0	290	ARG	CA-C-N	5.17	128.56	117.20
4	4	335	ARG	NE-CZ-NH1	5.17	122.88	120.30
4	5	91	TYR	CB-CG-CD2	-5.17	117.90	121.00
4	Z	62	ARG	NE-CZ-NH1	5.16	122.88	120.30
4	3	290	ARG	CA-C-N	5.16	128.56	117.20
4	W	147	ARG	NE-CZ-NH2	-5.16	117.72	120.30
1	D	628	GLY	O-C-N	-5.16	114.45	122.70
4	9	147	ARG	NE-CZ-NH2	-5.16	117.72	120.30
4	Z	290	ARG	CA-C-N	5.16	128.54	117.20
4	8	290	ARG	CA-C-N	5.16	128.54	117.20
4	W	337	TYR	CB-CG-CD1	-5.16	117.91	121.00
4	V	290	ARG	CA-C-N	5.15	128.54	117.20
1	A	760	PHE	CB-CG-CD1	5.15	124.41	120.80
1	D	4	ASP	CB-CG-OD1	-5.15	113.66	118.30
1	G	346	ASP	N-CA-CB	-5.15	101.33	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	7	290	ARG	CA-C-N	5.15	128.53	117.20
4	2	337	TYR	CB-CG-CD1	-5.15	117.91	121.00
4	4	337	TYR	CB-CG-CD1	-5.15	117.91	121.00
4	Z	91	TYR	CB-CG-CD2	-5.15	117.91	121.00
4	X	290	ARG	CA-C-N	5.15	128.53	117.20
4	5	290	ARG	CA-C-N	5.15	128.52	117.20
4	9	290	ARG	CA-C-N	5.14	128.52	117.20
4	2	62	ARG	NE-CZ-NH1	5.14	122.87	120.30
4	4	91	TYR	CB-CG-CD2	-5.14	117.92	121.00
4	W	290	ARG	CA-C-N	5.14	128.51	117.20
4	X	62	ARG	NE-CZ-NH1	5.14	122.87	120.30
4	Y	53	TYR	CB-CG-CD1	-5.14	117.92	121.00
4	4	62	ARG	NE-CZ-NH1	5.14	122.87	120.30
4	5	337	TYR	CB-CG-CD1	-5.14	117.92	121.00
1	D	576	GLU	CA-CB-CG	-5.14	102.10	113.40
1	G	90	ASP	CB-CG-OD1	-5.14	113.68	118.30
4	2	290	ARG	CA-C-N	5.14	128.50	117.20
4	X	337	TYR	CB-CG-CD1	-5.13	117.92	121.00
4	8	337	TYR	CB-CG-CD1	-5.13	117.92	121.00
4	V	337	TYR	CB-CG-CD1	-5.13	117.92	121.00
4	1	53	TYR	CB-CG-CD1	-5.13	117.92	121.00
4	3	335	ARG	NE-CZ-NH1	5.13	122.86	120.30
4	4	290	ARG	CA-C-N	5.13	128.48	117.20
4	V	53	TYR	CB-CG-CD1	-5.12	117.92	121.00
4	5	62	ARG	CA-CB-CG	5.12	124.67	113.40
4	1	290	ARG	CA-C-N	5.12	128.46	117.20
4	9	91	TYR	CB-CG-CD2	-5.12	117.93	121.00
4	X	335	ARG	NE-CZ-NH1	5.12	122.86	120.30
1	A	576	GLU	CA-CB-CG	-5.12	102.15	113.40
1	G	555	TYR	CB-CG-CD1	5.12	124.07	121.00
1	J	160	ASP	CB-CG-OD2	-5.12	113.70	118.30
4	7	91	TYR	CB-CG-CD2	-5.11	117.93	121.00
4	X	53	TYR	CB-CG-CD1	-5.11	117.93	121.00
1	J	576	GLU	CA-CB-CG	-5.11	102.16	113.40
4	5	53	TYR	CB-CG-CD1	-5.11	117.93	121.00
4	7	62	ARG	CA-CB-CG	5.11	124.64	113.40
4	Z	53	TYR	CB-CG-CD1	-5.11	117.94	121.00
4	5	335	ARG	NE-CZ-NH1	5.11	122.85	120.30
1	A	160	ASP	CB-CG-OD2	-5.10	113.71	118.30
1	G	576	GLU	CA-CB-CG	-5.10	102.18	113.40
1	P	576	GLU	CA-CB-CG	-5.10	102.18	113.40
4	9	337	TYR	CB-CG-CD1	-5.10	117.94	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	W	62	ARG	NE-CZ-NH1	5.10	122.85	120.30
4	1	91	TYR	CB-CG-CD2	-5.10	117.94	121.00
4	W	53	TYR	CB-CG-CD1	-5.10	117.94	121.00
4	Z	62	ARG	CA-CB-CG	5.10	124.61	113.40
1	D	218	LEU	CA-CB-CG	5.09	127.02	115.30
1	P	628	GLY	O-C-N	-5.09	114.55	122.70
4	0	62	ARG	CA-CB-CG	5.09	124.61	113.40
4	3	62	ARG	NE-CZ-NH1	5.09	122.85	120.30
4	2	62	ARG	CA-CB-CG	5.09	124.61	113.40
4	V	62	ARG	NE-CZ-NH1	5.09	122.85	120.30
1	P	82	PRO	N-CA-CB	5.09	109.41	103.30
4	W	335	ARG	NE-CZ-NH1	5.09	122.84	120.30
1	G	621	LEU	CA-CB-CG	-5.09	103.59	115.30
4	Y	91	TYR	CB-CG-CD2	-5.09	117.95	121.00
4	9	86	TRP	CG-CD1-NE1	-5.09	105.01	110.10
4	W	62	ARG	CA-CB-CG	5.09	124.59	113.40
1	A	555	TYR	CB-CG-CD1	5.08	124.05	121.00
4	1	337	TYR	CB-CG-CD1	-5.08	117.95	121.00
4	5	62	ARG	NE-CZ-NH1	5.08	122.84	120.30
4	9	62	ARG	CA-CB-CG	5.08	124.59	113.40
4	8	62	ARG	CA-CB-CG	5.08	124.58	113.40
4	8	62	ARG	NE-CZ-NH1	5.08	122.84	120.30
1	A	463	ASP	CB-CG-OD1	5.08	122.87	118.30
4	1	62	ARG	CA-CB-CG	5.08	124.58	113.40
4	3	191	LYS	CA-C-N	5.08	128.38	117.20
4	8	86	TRP	CG-CD1-NE1	-5.08	105.02	110.10
4	Y	62	ARG	CA-CB-CG	5.08	124.58	113.40
1	J	628	GLY	O-C-N	-5.08	114.57	122.70
4	3	62	ARG	CA-CB-CG	5.08	124.58	113.40
4	V	62	ARG	CA-CB-CG	5.08	124.58	113.40
4	4	62	ARG	CA-CB-CG	5.08	124.57	113.40
4	Y	337	TYR	CB-CG-CD1	-5.08	117.95	121.00
1	A	218	LEU	CA-CB-CG	5.08	126.98	115.30
1	J	82	PRO	N-CA-CB	5.08	109.39	103.30
1	D	621	LEU	CA-CB-CG	-5.08	103.63	115.30
1	G	628	GLY	O-C-N	-5.08	114.58	122.70
1	P	160	ASP	CB-CG-OD2	-5.08	113.73	118.30
4	2	53	TYR	CB-CG-CD1	-5.08	117.95	121.00
4	X	62	ARG	CA-CB-CG	5.08	124.57	113.40
1	A	621	LEU	CA-CB-CG	-5.07	103.63	115.30
4	7	191	LYS	CA-C-N	5.07	128.36	117.20
4	8	191	LYS	CA-C-N	5.07	128.36	117.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	9	191	LYS	CA-C-N	5.07	128.36	117.20
4	Z	337	TYR	CB-CG-CD1	-5.07	117.96	121.00
4	2	191	LYS	CA-C-N	5.07	128.35	117.20
1	A	170	ARG	NE-CZ-NH1	5.07	122.83	120.30
1	P	218	LEU	CA-CB-CG	5.07	126.96	115.30
4	2	86	TRP	CG-CD1-NE1	-5.07	105.03	110.10
4	5	191	LYS	CA-C-N	5.07	128.35	117.20
4	7	337	TYR	CB-CG-CD1	-5.07	117.96	121.00
4	Y	191	LYS	CA-C-N	5.07	128.35	117.20
1	A	628	GLY	O-C-N	-5.06	114.60	122.70
4	X	191	LYS	CA-C-N	5.06	128.34	117.20
4	1	191	LYS	CA-C-N	5.06	128.33	117.20
1	D	82	PRO	N-CA-CB	5.06	109.37	103.30
1	J	218	LEU	CA-CB-CG	5.06	126.93	115.30
1	J	621	LEU	CA-CB-CG	-5.06	103.67	115.30
4	Z	191	LYS	CA-C-N	5.06	128.33	117.20
1	G	160	ASP	CB-CG-OD2	-5.06	113.75	118.30
4	0	191	LYS	CA-C-N	5.06	128.32	117.20
4	X	91	TYR	CB-CG-CD2	-5.05	117.97	121.00
1	P	301	ASP	CB-CG-OD2	5.05	122.85	118.30
4	4	191	LYS	CA-C-N	5.05	128.31	117.20
4	0	337	TYR	CB-CG-CD1	-5.05	117.97	121.00
4	4	53	TYR	CB-CG-CD1	-5.05	117.97	121.00
4	W	191	LYS	CA-C-N	5.05	128.31	117.20
1	D	160	ASP	CB-CG-OD2	-5.05	113.76	118.30
4	3	53	TYR	CB-CG-CD1	-5.05	117.97	121.00
1	A	235	ALA	N-CA-CB	-5.04	103.04	110.10
1	D	555	TYR	CB-CG-CD1	5.04	124.02	121.00
1	A	739	ASP	CA-CB-CG	-5.04	102.31	113.40
1	J	463	ASP	CB-CG-OD1	5.04	122.83	118.30
4	V	191	LYS	CA-C-N	5.04	128.28	117.20
4	9	53	TYR	CB-CG-CD1	-5.04	117.98	121.00
4	2	91	TYR	CB-CG-CD2	-5.03	117.98	121.00
4	0	53	TYR	CB-CG-CD1	-5.03	117.98	121.00
1	D	301	ASP	CB-CG-OD2	5.02	122.82	118.30
1	J	90	ASP	CB-CG-OD1	-5.02	113.78	118.30
1	P	235	ALA	N-CA-CB	-5.02	103.07	110.10
4	W	86	TRP	CG-CD1-NE1	-5.02	105.08	110.10
1	P	621	LEU	CA-CB-CG	-5.02	103.75	115.30
4	W	91	TYR	CB-CG-CD2	-5.02	117.99	121.00
4	0	86	TRP	CG-CD1-NE1	-5.02	105.08	110.10
1	G	739	ASP	N-CA-CB	5.02	119.63	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	J	555	TYR	CB-CG-CD1	5.02	124.01	121.00
1	D	463	ASP	CB-CG-OD1	5.02	122.81	118.30
2	H	129	THR	N-CA-CB	5.01	119.83	110.30
1	J	235	ALA	N-CA-CB	-5.01	103.08	110.10
4	8	53	TYR	CB-CG-CD1	-5.01	117.99	121.00
1	J	739	ASP	N-CA-CB	5.01	119.62	110.60
1	G	301	ASP	CB-CG-OD2	5.01	122.81	118.30
4	8	91	TYR	CB-CG-CD2	-5.01	118.00	121.00
1	G	82	PRO	N-CA-CB	5.00	109.31	103.30
4	1	86	TRP	CG-CD1-NE1	-5.00	105.10	110.10
4	3	86	TRP	CG-CD1-NE1	-5.00	105.10	110.10
1	P	90	ASP	CB-CG-OD1	-5.00	113.80	118.30

All (6) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
1	A	648	THR	CB
1	D	648	THR	CB
1	G	75	ASP	CA
1	G	648	THR	CB
1	J	648	THR	CB
1	P	648	THR	CB

All (66) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
4	0	62	ARG	Sidechain
4	1	62	ARG	Sidechain
4	2	62	ARG	Sidechain
4	3	62	ARG	Sidechain
4	4	62	ARG	Sidechain
4	5	62	ARG	Sidechain
4	7	62	ARG	Sidechain
4	8	62	ARG	Sidechain
4	9	62	ARG	Sidechain
1	A	623	PHE	Sidechain
1	A	637	LYS	Mainchain
1	A	649	VAL	Mainchain
1	A	98	HIS	Mainchain
2	B	150	TYR	Sidechain
2	B	155	TYR	Mainchain
2	B	22	THR	Mainchain

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Mol	Chain	Res	Type	Group
3	C	75	ALA	Mainchain
3	C	85	GLU	Mainchain
1	D	623	PHE	Sidechain
1	D	637	LYS	Mainchain
1	D	649	VAL	Mainchain
1	D	98	HIS	Mainchain
2	E	150	TYR	Sidechain
2	E	155	TYR	Mainchain
2	E	22	THR	Mainchain
3	F	75	ALA	Mainchain
3	F	85	GLU	Mainchain
1	G	623	PHE	Sidechain
1	G	637	LYS	Mainchain
1	G	649	VAL	Mainchain
1	G	98	HIS	Mainchain
2	H	150	TYR	Sidechain
2	H	155	TYR	Mainchain
2	H	22	THR	Mainchain
3	I	75	ALA	Mainchain
3	I	85	GLU	Mainchain
1	J	623	PHE	Sidechain
1	J	637	LYS	Mainchain
1	J	649	VAL	Mainchain
1	J	709	LYS	Peptide,Mainchain
1	J	98	HIS	Mainchain
2	K	150	TYR	Sidechain
2	K	155	TYR	Mainchain
2	K	22	THR	Mainchain
3	L	75	ALA	Mainchain
3	L	85	GLU	Mainchain
1	P	623	PHE	Sidechain
1	P	637	LYS	Mainchain
1	P	649	VAL	Mainchain
1	P	769	ALA	Mainchain
1	P	785	GLU	Peptide,Mainchain
1	P	806	MET	Peptide,Mainchain
1	P	98	HIS	Mainchain
2	Q	150	TYR	Sidechain
2	Q	155	TYR	Mainchain
2	Q	22	THR	Mainchain
3	R	75	ALA	Mainchain
3	R	85	GLU	Mainchain

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Mol	Chain	Res	Type	Group
4	V	62	ARG	Sidechain
4	W	62	ARG	Sidechain
4	X	62	ARG	Sidechain
4	Y	62	ARG	Sidechain
4	Z	62	ARG	Sidechain

5.2 Too-close contacts (i)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	6797	0	6754	1510	0
1	D	6797	0	6755	1417	0
1	G	6797	0	6763	1561	0
1	J	6797	0	6754	1418	0
1	P	6797	0	6763	1523	0
2	B	1127	0	1085	239	0
2	E	1127	0	1086	269	0
2	H	1127	0	1088	298	0
2	K	1127	0	1088	266	0
2	Q	1127	0	1088	261	0
3	C	1123	0	1083	194	0
3	F	1123	0	1083	168	0
3	I	1123	0	1083	186	0
3	L	1123	0	1083	161	0
3	R	1123	0	1079	229	0
4	0	2906	0	2855	406	0
4	1	2906	0	2864	214	0
4	2	2906	0	2864	174	0
4	3	2906	0	2863	180	0
4	4	2906	0	2865	98	0
4	5	2906	0	2865	99	0
4	7	2906	0	2866	76	0
4	8	2906	0	2857	321	0
4	9	2906	0	2855	341	0
4	V	2906	0	2851	385	0
4	W	2906	0	2851	384	0
4	X	2906	0	2862	212	0
4	Y	2906	0	2863	169	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	Z	2906	0	2862	187	0
All	All	85919	0	84678	9656	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 57.

All (9656) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:797:PHE:CE1	3:L:146:ILE:HG23	1.21	1.71
1:G:84:MLY:CH1	1:G:724:TYR:HE2	1.03	1.66
1:P:803:TYR:CD1	1:P:807:VAL:HG11	1.22	1.65
1:G:84:MLY:CG	1:G:723:ARG:HD2	1.17	1.64
1:D:798:LEU:HD11	3:F:126:LEU:CD1	1.26	1.63
1:G:757:GLN:CG	1:G:776:GLU:HG2	1.19	1.63
2:H:144:VAL:HG13	2:H:153:ILE:CD1	1.22	1.63
1:A:753:VAL:HG12	1:A:775:LEU:CG	1.24	1.63
2:E:144:VAL:HG13	2:E:153:ILE:CD1	1.22	1.63
4:X:291:LYS:HE3	4:Z:243:PRO:CB	1.17	1.63
2:K:144:VAL:HG13	2:K:153:ILE:CG1	1.17	1.62
4:1:287:ILE:HG23	4:3:202:THR:CB	1.26	1.62
1:P:797:PHE:CE1	3:R:146:ILE:HG23	1.25	1.62
1:G:757:GLN:HG3	1:G:776:GLU:CG	1.21	1.61
1:D:797:PHE:CE2	3:F:126:LEU:HD22	1.34	1.61
1:G:725:ARG:HE	1:G:733:PRO:CB	1.09	1.61
2:B:144:VAL:HG13	2:B:153:ILE:CD1	1.22	1.61
1:J:725:ARG:HE	1:J:733:PRO:CB	1.09	1.61
1:A:831:TRP:CZ3	2:B:50:THR:HG21	1.31	1.61
1:A:206:LYS:CD	1:A:217:THR:HG23	1.28	1.61
1:D:792:ALA:HB2	3:F:42:THR:CG2	1.29	1.60
2:Q:144:VAL:HG13	2:Q:153:ILE:CD1	1.22	1.60
1:P:538:GLU:CA	4:0:349:LEU:CD1	1.79	1.60
2:Q:144:VAL:HG13	2:Q:153:ILE:CG1	1.17	1.60
1:G:831:TRP:CH2	2:H:47:LEU:HD21	1.30	1.60
1:J:538:GLU:CA	4:W:349:LEU:CD1	1.79	1.59
1:P:797:PHE:CZ	3:R:146:ILE:HD12	1.33	1.59
1:G:206:LYS:CD	1:G:217:THR:HG23	1.28	1.59
2:E:144:VAL:HG13	2:E:153:ILE:CG1	1.17	1.59
1:J:206:LYS:CD	1:J:217:THR:HG23	1.28	1.59
1:D:538:GLU:CA	4:9:349:LEU:CD1	1.78	1.58
1:P:725:ARG:HE	1:P:733:PRO:CB	1.09	1.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:505:MLY:CB	1:A:762:HIS:HD2	1.01	1.58
1:J:818:TYR:CE1	2:K:127:ARG:NH2	1.70	1.58
4:1:287:ILE:CG2	4:3:202:THR:HB	1.23	1.58
2:B:144:VAL:HG13	2:B:153:ILE:CG1	1.17	1.58
1:D:834:LEU:HD11	2:E:54:MET:CG	1.22	1.58
1:G:538:GLU:CA	4:V:349:LEU:CD1	1.79	1.58
1:G:792:ALA:CB	3:I:42:THR:HG22	1.11	1.58
2:H:144:VAL:HG13	2:H:153:ILE:CG1	1.17	1.57
1:P:797:PHE:CD1	3:R:146:ILE:CG2	1.81	1.57
4:1:203:THR:H	4:Z:287:ILE:CG1	1.10	1.57
1:D:725:ARG:HE	1:D:733:PRO:CB	1.09	1.57
1:D:736:GLN:HA	1:D:743:ALA:CB	1.35	1.57
1:J:505:MLY:HD2	1:J:762:HIS:CE1	1.35	1.57
1:J:84:MLY:HH11	1:J:720:PHE:CD1	1.40	1.57
2:K:144:VAL:HG13	2:K:153:ILE:CD1	1.22	1.57
1:P:797:PHE:CE1	3:R:146:ILE:HD12	1.09	1.57
1:A:505:MLY:HB3	1:A:762:HIS:CD2	1.38	1.57
1:G:736:GLN:HA	1:G:743:ALA:CB	1.35	1.57
1:D:798:LEU:CD1	3:F:126:LEU:HD11	1.20	1.56
1:J:530:MET:HG2	4:W:354:GLN:CB	1.36	1.56
4:1:202:THR:HB	4:Z:287:ILE:CG2	1.29	1.56
1:D:206:LYS:CD	1:D:217:THR:HG23	1.28	1.56
1:P:736:GLN:HA	1:P:743:ALA:CB	1.35	1.55
1:J:797:PHE:CZ	3:L:146:ILE:CD1	1.83	1.55
1:J:818:TYR:CZ	2:K:127:ARG:NH2	1.71	1.55
1:A:530:MET:HG2	4:8:354:GLN:CB	1.35	1.55
1:A:725:ARG:HE	1:A:733:PRO:CB	1.09	1.55
1:D:792:ALA:CB	3:F:42:THR:HG22	1.35	1.55
1:D:797:PHE:CD1	3:F:146:ILE:HG23	1.38	1.55
1:A:538:GLU:CA	4:8:349:LEU:CD1	1.78	1.55
1:G:530:MET:HG2	4:V:354:GLN:CB	1.35	1.54
1:D:530:MET:HG2	4:9:354:GLN:CB	1.35	1.54
1:P:795:ARG:CB	3:R:35:ARG:NH1	1.69	1.54
1:P:548:THR:CG2	4:2:49:GLN:N	1.70	1.54
1:D:641:LYS:HG3	1:D:647:GLN:CG	1.36	1.53
1:D:834:LEU:CD1	2:E:54:MET:HG3	1.14	1.53
1:J:641:LYS:HG3	1:J:647:GLN:CG	1.37	1.53
1:P:797:PHE:CD1	3:R:146:ILE:HG23	1.06	1.53
1:P:206:LYS:CD	1:P:217:THR:HG23	1.28	1.53
1:A:799:MET:SD	3:C:32:ASP:HB3	1.47	1.53
1:P:530:MET:HG2	4:0:354:GLN:CB	1.36	1.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:117:LEU:HD12	2:Q:147:ASN:CG	1.29	1.53
4:0:205:GLU:CG	4:Y:287:ILE:HB	1.16	1.53
4:1:287:ILE:CG1	4:3:203:THR:N	1.67	1.53
1:J:736:GLN:HA	1:J:743:ALA:CB	1.35	1.52
1:A:834:LEU:HD21	2:B:54:MET:CE	1.08	1.52
1:A:641:LYS:HG3	1:A:647:GLN:CG	1.37	1.52
1:A:736:GLN:HA	1:A:743:ALA:CB	1.35	1.52
1:P:149:GLN:CG	1:P:716:LEU:HD11	1.38	1.52
1:P:641:LYS:HG3	1:P:647:GLN:CG	1.37	1.52
4:2:290:ARG:NH2	4:4:202:THR:CG2	1.70	1.52
1:G:206:LYS:HD3	1:G:217:THR:CG2	1.40	1.51
1:G:797:PHE:CE2	3:I:126:LEU:HD22	1.45	1.51
1:G:819:ASN:ND2	2:H:92:ASP:HB2	1.19	1.51
1:G:641:LYS:HG3	1:G:647:GLN:CG	1.37	1.51
2:Q:111:SER:HB2	2:Q:148:VAL:C	1.23	1.51
1:J:838:ILE:HD11	2:K:54:MET:CE	1.35	1.51
2:K:111:SER:HB2	2:K:148:VAL:C	1.23	1.51
2:K:117:LEU:HD12	2:K:147:ASN:CB	1.41	1.50
1:P:149:GLN:HG2	1:P:716:LEU:CD1	1.39	1.50
1:A:795:ARG:HB3	3:C:35:ARG:CZ	1.35	1.50
1:G:792:ALA:HB2	3:I:42:THR:CG2	1.06	1.50
2:E:117:LEU:HD12	2:E:147:ASN:CB	1.41	1.50
1:A:753:VAL:CG1	1:A:775:LEU:HG	1.38	1.49
2:B:117:LEU:HD12	2:B:147:ASN:CB	1.41	1.49
2:Q:117:LEU:HD12	2:Q:147:ASN:CB	1.41	1.49
1:D:206:LYS:HD3	1:D:217:THR:CG2	1.40	1.49
1:J:721:LYS:HG3	1:J:736:GLN:CG	1.15	1.49
1:P:804:ARG:HG2	1:P:808:GLU:CD	1.13	1.49
1:A:819:ASN:ND2	2:B:91:ALA:CA	1.75	1.49
1:P:721:LYS:HG3	1:P:736:GLN:CG	1.15	1.49
4:X:324:THR:HG22	4:Z:247:VAL:CG2	1.42	1.49
1:G:721:LYS:HG3	1:G:736:GLN:CG	1.15	1.49
1:P:206:LYS:HD3	1:P:217:THR:CG2	1.40	1.49
1:J:206:LYS:HD3	1:J:217:THR:CG2	1.40	1.48
4:0:243:PRO:C	4:Y:291:LYS:HE2	1.21	1.48
1:A:813:ILE:CG2	2:B:127:ARG:HD2	1.40	1.48
2:B:111:SER:HB2	2:B:148:VAL:C	1.23	1.48
1:J:798:LEU:HD11	3:L:126:LEU:CD1	1.39	1.48
1:P:783:LEU:HG	1:P:786:ILE:CD1	1.41	1.48
1:P:548:THR:CG2	4:2:49:GLN:HB2	1.41	1.48
1:A:206:LYS:HD3	1:A:217:THR:CG2	1.40	1.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:556:ASP:CG	4:X:47:MET:CE	1.76	1.48
1:D:799:MET:SD	3:F:32:ASP:HB3	1.52	1.47
1:A:641:LYS:CG	1:A:647:GLN:NE2	1.76	1.47
1:G:641:LYS:CG	1:G:647:GLN:NE2	1.76	1.46
1:P:800:ARG:NH2	3:R:40:ASN:ND2	1.60	1.46
2:B:117:LEU:HD12	2:B:147:ASN:CG	1.30	1.46
2:H:117:LEU:HD12	2:H:147:ASN:CB	1.42	1.46
4:W:324:THR:CG2	4:Y:247:VAL:H	1.24	1.46
2:E:111:SER:HB2	2:E:148:VAL:C	1.23	1.46
2:H:117:LEU:HD12	2:H:147:ASN:CG	1.30	1.46
1:J:538:GLU:C	4:W:349:LEU:CD1	1.84	1.46
1:A:795:ARG:NH2	3:C:116:GLU:CD	1.70	1.46
2:K:117:LEU:HD12	2:K:147:ASN:CG	1.29	1.46
1:J:84:MLY:CH2	1:J:720:PHE:HA	1.39	1.46
4:0:287:ILE:CG2	4:2:203:THR:HG22	1.42	1.46
4:1:202:THR:CB	4:Z:287:ILE:HG23	1.45	1.46
1:A:797:PHE:CE1	3:C:146:ILE:HA	1.49	1.45
1:G:538:GLU:C	4:V:349:LEU:CD1	1.84	1.45
1:J:641:LYS:CG	1:J:647:GLN:NE2	1.77	1.45
1:A:641:LYS:CD	1:A:647:GLN:CD	1.85	1.45
1:G:641:LYS:CD	1:G:647:GLN:CD	1.85	1.45
1:J:797:PHE:HZ	3:L:146:ILE:CD1	1.19	1.45
1:P:831:TRP:CH2	2:Q:47:LEU:CD2	1.99	1.45
1:J:641:LYS:CD	1:J:647:GLN:CD	1.85	1.45
1:P:538:GLU:C	4:0:349:LEU:CD1	1.84	1.45
1:D:538:GLU:C	4:9:349:LEU:CD1	1.84	1.45
2:E:117:LEU:HD12	2:E:147:ASN:CG	1.29	1.45
1:J:797:PHE:CZ	3:L:146:ILE:HD12	0.94	1.45
4:1:203:THR:N	4:Z:287:ILE:HG12	1.22	1.45
1:A:831:TRP:CH2	2:B:50:THR:HB	1.50	1.45
1:P:838:ILE:HD11	2:Q:54:MET:CE	1.01	1.45
1:A:819:ASN:HD21	2:B:91:ALA:C	0.90	1.44
2:H:111:SER:HB2	2:H:148:VAL:C	1.23	1.44
1:P:797:PHE:CE1	3:R:146:ILE:CD1	1.95	1.44
1:D:818:TYR:CB	2:E:90:GLY:HA3	1.45	1.44
1:A:831:TRP:CZ3	2:B:50:THR:CG2	1.97	1.44
1:D:834:LEU:CG	2:E:54:MET:HG3	1.44	1.44
1:D:838:ILE:HD12	2:E:54:MET:SD	1.56	1.44
1:P:641:LYS:CD	1:P:647:GLN:CD	1.84	1.44
1:P:786:ILE:CG2	1:P:787:ILE:HB	1.47	1.44
4:1:287:ILE:HG12	4:3:202:THR:C	1.29	1.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:799:MET:SD	3:F:32:ASP:CB	2.05	1.44
1:A:538:GLU:C	4:8:349:LEU:CD1	1.84	1.43
1:D:641:LYS:CG	1:D:647:GLN:NE2	1.77	1.43
1:D:799:MET:CE	3:F:32:ASP:HB3	1.48	1.43
1:G:831:TRP:CH2	2:H:47:LEU:CD2	1.97	1.43
1:P:508:ILE:HD11	1:P:759:ALA:CB	1.47	1.43
4:0:112:PRO:HB3	4:1:196:ARG:CA	1.36	1.43
1:G:567:LYS:NZ	4:X:92:ASN:HD22	1.17	1.43
1:D:769:ALA:O	1:D:774:LEU:CD1	1.66	1.43
1:D:822:SER:OG	2:E:88:LEU:CD2	1.63	1.43
1:J:710:GLY:CA	1:J:772:LEU:HD22	1.46	1.43
1:D:721:LYS:HG3	1:D:736:GLN:CG	1.15	1.42
1:P:725:ARG:HH21	3:R:93:VAL:CG1	1.31	1.42
4:X:286:ASP:OD1	4:Z:202:THR:CB	1.64	1.42
1:P:149:GLN:HB3	1:P:716:LEU:CD2	1.46	1.42
1:A:149:GLN:CG	1:A:719:ASP:OD1	1.66	1.42
1:D:641:LYS:CD	1:D:647:GLN:CD	1.85	1.42
1:G:84:MLY:NZ	1:G:724:TYR:HE2	0.94	1.42
1:G:795:ARG:CA	3:I:118:MET:HE1	1.49	1.42
1:P:84:MLY:HG2	1:P:723:ARG:CD	1.44	1.42
1:G:755:HIS:H	1:G:779:ARG:CZ	1.32	1.42
1:P:725:ARG:NH2	3:R:93:VAL:CG1	1.83	1.42
1:P:641:LYS:CG	1:P:647:GLN:NE2	1.77	1.42
1:J:733:PRO:O	1:J:737:PHE:CD1	1.73	1.41
1:G:84:MLY:HB3	1:G:723:ARG:NE	1.29	1.41
4:0:112:PRO:HG3	4:1:195:GLU:C	1.17	1.41
1:A:149:GLN:NE2	1:A:718:ALA:HB3	1.32	1.41
1:A:530:MET:CG	4:8:354:GLN:HB2	1.50	1.41
1:A:797:PHE:CZ	3:C:146:ILE:HD13	1.56	1.41
1:D:795:ARG:HB3	3:F:35:ARG:NH1	1.27	1.41
1:D:818:TYR:HB2	2:E:90:GLY:CA	1.49	1.41
2:H:144:VAL:CG1	2:H:153:ILE:CD1	1.99	1.41
1:J:797:PHE:CD1	3:L:146:ILE:HG23	1.54	1.41
1:P:838:ILE:CD1	2:Q:54:MET:CE	1.93	1.41
1:P:202:SER:HA	1:P:207:LYS:CE	1.51	1.41
1:P:505:MLY:HD2	1:P:762:HIS:NE2	1.31	1.41
1:D:530:MET:CG	4:9:354:GLN:HB2	1.50	1.40
1:P:733:PRO:O	1:P:737:PHE:CD1	1.73	1.40
1:P:736:GLN:N	1:P:743:ALA:HB1	1.35	1.40
1:A:733:PRO:O	1:A:737:PHE:CD1	1.73	1.40
1:A:834:LEU:CD2	2:B:54:MET:CE	1.98	1.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:144:VAL:CG1	2:E:153:ILE:CD1	1.99	1.40
1:J:202:SER:HA	1:J:207:LYS:CE	1.51	1.40
1:J:798:LEU:CD1	3:L:126:LEU:HD11	1.52	1.40
1:G:791:GLN:NE2	3:I:115:GLY:HA3	1.17	1.40
1:J:218:LEU:CB	1:J:221:GLN:HG3	1.52	1.40
1:P:218:LEU:CB	1:P:221:GLN:HG3	1.52	1.40
4:1:287:ILE:HG12	4:3:203:THR:N	1.25	1.40
4:X:291:LYS:CE	4:Z:243:PRO:HB2	1.52	1.40
1:D:218:LEU:CB	1:D:221:GLN:HG3	1.52	1.40
1:D:733:PRO:O	1:D:737:PHE:CD1	1.73	1.40
1:G:733:PRO:O	1:G:737:PHE:CD1	1.73	1.40
1:A:202:SER:HA	1:A:207:LYS:CE	1.51	1.40
2:B:144:VAL:CG1	2:B:153:ILE:CD1	1.99	1.40
1:G:818:TYR:CZ	2:H:127:ARG:NH2	1.84	1.40
2:K:144:VAL:CG1	2:K:153:ILE:CD1	1.99	1.40
1:A:721:LYS:HG3	1:A:736:GLN:CG	1.15	1.39
1:D:713:SER:H	1:D:771:LEU:CD2	1.33	1.39
1:D:838:ILE:CD1	2:E:54:MET:CE	1.98	1.39
1:J:736:GLN:CA	1:J:743:ALA:CB	2.00	1.39
1:A:149:GLN:HB3	1:A:719:ASP:N	1.38	1.39
1:A:537:GLU:O	4:8:349:LEU:CD1	1.70	1.39
1:P:537:GLU:O	4:0:349:LEU:CD1	1.70	1.39
1:P:797:PHE:CE1	3:R:146:ILE:CG2	2.00	1.39
1:A:736:GLN:CA	1:A:743:ALA:CB	2.00	1.39
1:G:202:SER:HA	1:G:207:LYS:CE	1.51	1.39
1:G:795:ARG:HG2	3:I:118:MET:CE	1.52	1.39
2:Q:144:VAL:CG1	2:Q:153:ILE:CD1	1.99	1.39
4:1:287:ILE:HG12	4:3:202:THR:CA	1.50	1.39
1:D:537:GLU:O	4:9:349:LEU:CD1	1.70	1.39
1:G:736:GLN:CA	1:G:743:ALA:CB	2.00	1.39
1:G:795:ARG:NE	3:I:116:GLU:HB3	1.31	1.39
1:P:530:MET:CG	4:0:354:GLN:HB2	1.51	1.39
4:2:290:ARG:CZ	4:4:202:THR:HG21	1.52	1.39
4:3:288:ASP:CG	4:5:203:THR:CG2	1.90	1.39
1:J:736:GLN:CA	1:J:743:ALA:HB1	1.53	1.39
1:P:836:PHE:CE1	2:Q:159:HIS:HA	1.57	1.39
1:D:202:SER:HA	1:D:207:LYS:CE	1.51	1.38
1:D:736:GLN:N	1:D:743:ALA:HB1	1.35	1.38
1:G:819:ASN:CG	2:H:92:ASP:HB2	1.31	1.38
1:J:530:MET:CG	4:W:354:GLN:HB2	1.51	1.38
1:J:537:GLU:O	4:W:349:LEU:CD1	1.70	1.38

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:144:VAL:CG1	2:B:153:ILE:HG12	1.54	1.38
1:D:736:GLN:CA	1:D:743:ALA:CB	2.00	1.38
1:J:710:GLY:HA2	1:J:772:LEU:CD2	1.53	1.38
1:P:736:GLN:CA	1:P:743:ALA:CB	2.00	1.38
1:P:821:ARG:NH2	2:Q:127:ARG:HG2	1.38	1.38
1:G:736:GLN:CA	1:G:743:ALA:HB1	1.53	1.38
1:G:819:ASN:CA	2:H:90:GLY:O	1.70	1.38
1:P:149:GLN:CB	1:P:716:LEU:HD21	1.52	1.38
1:A:218:LEU:CB	1:A:221:GLN:HG3	1.52	1.37
1:G:534:SER:O	4:V:351:THR:CG2	1.64	1.38
2:E:144:VAL:CG1	2:E:153:ILE:HG12	1.54	1.37
2:B:117:LEU:HB2	2:B:147:ASN:ND2	1.39	1.37
1:G:218:LEU:CB	1:G:221:GLN:HG3	1.51	1.37
1:J:821:ARG:NH2	2:K:127:ARG:HG2	1.35	1.37
2:B:144:VAL:CG1	2:B:153:ILE:CG1	2.03	1.37
1:D:642:LYS:HG3	4:9:23:GLY:N	1.40	1.37
1:P:819:ASN:ND2	2:Q:92:ASP:CB	1.87	1.37
4:0:205:GLU:HG3	4:Y:287:ILE:CB	1.33	1.37
4:0:287:ILE:HG21	4:2:203:THR:CG2	1.54	1.37
1:A:819:ASN:CG	2:B:91:ALA:HA	1.42	1.37
1:G:736:GLN:N	1:G:743:ALA:HB1	1.34	1.37
1:G:795:ARG:HE	3:I:116:GLU:CB	1.37	1.37
1:J:817:GLN:HG2	2:K:127:ARG:CB	1.51	1.37
2:K:144:VAL:CG1	2:K:153:ILE:HG12	1.54	1.37
1:D:641:LYS:CG	1:D:647:GLN:CD	1.93	1.36
1:G:537:GLU:O	4:V:349:LEU:CD1	1.71	1.36
2:K:117:LEU:HB2	2:K:147:ASN:ND2	1.39	1.36
1:A:641:LYS:HG3	1:A:647:GLN:CD	1.45	1.36
1:A:649:VAL:O	1:A:649:VAL:CG1	1.74	1.36
2:E:144:VAL:CG1	2:E:153:ILE:CG1	2.03	1.36
1:A:736:GLN:N	1:A:743:ALA:HB1	1.34	1.36
1:A:799:MET:SD	3:C:32:ASP:CB	2.11	1.36
1:G:530:MET:CG	4:V:354:GLN:HB2	1.51	1.36
1:J:642:LYS:HG3	4:W:23:GLY:N	1.40	1.36
1:J:736:GLN:N	1:J:743:ALA:HB1	1.35	1.36
2:K:144:VAL:CG1	2:K:153:ILE:CG1	2.03	1.36
1:D:736:GLN:CA	1:D:743:ALA:HB1	1.53	1.36
1:G:792:ALA:HB2	3:I:42:THR:CB	1.53	1.36
1:J:84:MLY:HH11	1:J:720:PHE:CE1	1.58	1.36
2:Q:144:VAL:CG1	2:Q:153:ILE:HG12	1.54	1.36
1:A:831:TRP:HH2	2:B:50:THR:CB	1.35	1.36

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:505:MLY:HH23	1:G:762:HIS:NE2	1.07	1.36
1:G:642:LYS:HG3	4:V:23:GLY:N	1.39	1.36
1:G:753:VAL:HA	1:G:780:ASP:OD1	1.22	1.36
2:H:144:VAL:CG1	2:H:153:ILE:CG1	2.03	1.36
1:J:641:LYS:CG	1:J:647:GLN:CD	1.93	1.36
1:A:795:ARG:HB3	3:C:35:ARG:NH1	1.34	1.35
1:D:831:TRP:CZ2	2:E:47:LEU:CD2	2.09	1.35
1:G:538:GLU:CA	4:V:349:LEU:HD12	0.88	1.35
1:G:649:VAL:O	1:G:649:VAL:CG1	1.74	1.35
1:P:642:LYS:HG3	4:0:23:GLY:N	1.40	1.35
2:H:117:LEU:HB2	2:H:147:ASN:ND2	1.39	1.35
1:P:838:ILE:CD1	2:Q:54:MET:HE1	1.51	1.35
2:H:144:VAL:CG1	2:H:153:ILE:HG12	1.54	1.35
1:A:530:MET:HA	4:8:354:GLN:CG	1.56	1.35
1:A:534:SER:O	4:8:351:THR:CG2	1.64	1.35
1:A:795:ARG:CB	3:C:35:ARG:NH1	1.88	1.35
1:G:641:LYS:CG	1:G:647:GLN:CD	1.93	1.35
1:J:721:LYS:CG	1:J:736:GLN:CG	1.97	1.35
2:K:117:LEU:CD1	2:K:147:ASN:OD1	1.74	1.35
1:P:629:GLU:HA	1:P:643:GLY:O	1.17	1.35
1:P:736:GLN:CA	1:P:743:ALA:HB1	1.53	1.35
1:A:85:TYR:OH	1:A:772:LEU:CD2	1.73	1.34
1:G:553:MLY:CH1	4:X:45:VAL:HG11	1.54	1.34
1:J:538:GLU:CA	4:W:349:LEU:HD12	0.88	1.34
1:A:819:ASN:ND2	2:B:91:ALA:C	1.73	1.34
1:D:534:SER:O	4:9:351:THR:CG2	1.64	1.34
1:P:641:LYS:HG3	1:P:647:GLN:CD	1.45	1.34
1:P:725:ARG:NH2	3:R:93:VAL:HG11	1.41	1.34
2:Q:117:LEU:HB2	2:Q:147:ASN:ND2	1.39	1.34
4:3:288:ASP:OD2	4:5:203:THR:CG2	1.72	1.34
1:A:641:LYS:CG	1:A:647:GLN:CD	1.93	1.34
1:A:642:LYS:HG3	4:8:23:GLY:N	1.40	1.34
2:H:114:LYS:CA	2:H:146:GLY:O	1.76	1.34
1:P:804:ARG:HG2	1:P:808:GLU:OE2	1.19	1.34
1:A:499:GLU:OE1	1:A:766:PHE:CZ	1.79	1.34
1:J:629:GLU:HA	1:J:643:GLY:O	1.17	1.34
1:J:819:ASN:ND2	2:K:92:ASP:HB2	1.43	1.34
1:P:641:LYS:CG	1:P:647:GLN:CD	1.93	1.34
1:P:649:VAL:CG1	1:P:649:VAL:O	1.73	1.34
1:A:538:GLU:CA	4:8:349:LEU:HD12	0.87	1.34
1:D:649:VAL:O	1:D:649:VAL:CG1	1.73	1.34

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:721:LYS:CG	1:G:736:GLN:CG	1.97	1.34
1:P:538:GLU:CA	4:0:349:LEU:HD12	0.88	1.34
1:A:831:TRP:CH2	2:B:50:THR:CB	2.09	1.33
2:B:114:LYS:CA	2:B:146:GLY:O	1.76	1.33
1:D:538:GLU:CA	4:9:349:LEU:HD12	0.87	1.33
1:A:819:ASN:HD21	2:B:91:ALA:CA	1.34	1.33
2:B:117:LEU:CD1	2:B:147:ASN:OD1	1.74	1.33
1:D:629:GLU:HA	1:D:643:GLY:O	1.17	1.33
1:D:795:ARG:CB	3:F:35:ARG:NH1	1.89	1.33
1:J:641:LYS:HG3	1:J:647:GLN:CD	1.46	1.33
1:P:819:ASN:CG	2:Q:92:ASP:HB2	1.35	1.33
2:Q:117:LEU:CD1	2:Q:147:ASN:OD1	1.74	1.33
4:1:287:ILE:CG2	4:3:202:THR:CB	1.87	1.33
1:D:635:GLY:CA	4:9:334:GLU:HG2	1.59	1.33
2:E:117:LEU:CD1	2:E:147:ASN:OD1	1.74	1.33
1:J:530:MET:HA	4:W:354:GLN:CG	1.56	1.33
1:J:649:VAL:O	1:J:649:VAL:CG1	1.73	1.33
1:P:530:MET:HA	4:0:354:GLN:CG	1.56	1.33
1:P:801:VAL:HG21	3:R:126:LEU:CD2	1.56	1.33
4:1:203:THR:H	4:Z:287:ILE:CB	1.42	1.33
1:A:149:GLN:OE1	1:A:716:LEU:CD2	1.73	1.33
1:A:792:ALA:HB2	3:C:42:THR:CG2	1.59	1.33
1:D:530:MET:HA	4:9:354:GLN:CG	1.56	1.33
1:G:530:MET:HA	4:V:354:GLN:CG	1.57	1.33
2:K:114:LYS:CA	2:K:146:GLY:O	1.76	1.33
1:P:735:GLY:O	1:P:743:ALA:HB2	1.29	1.33
2:Q:114:LYS:CA	2:Q:146:GLY:O	1.76	1.33
1:A:736:GLN:CA	1:A:743:ALA:HB1	1.53	1.32
1:D:721:LYS:HG2	1:D:736:GLN:OE1	1.29	1.32
1:J:534:SER:O	4:W:351:THR:CG2	1.64	1.32
1:J:635:GLY:CA	4:W:334:GLU:HG2	1.59	1.32
1:J:836:PHE:CE1	2:K:159:HIS:HA	1.62	1.32
1:A:721:LYS:CG	1:A:736:GLN:CD	1.98	1.32
1:D:721:LYS:CG	1:D:736:GLN:CD	1.98	1.32
1:D:721:LYS:CG	1:D:736:GLN:CG	1.96	1.32
1:G:84:MLY:CD	1:G:723:ARG:HD2	1.59	1.32
1:G:797:PHE:CD1	3:I:146:ILE:HG23	1.62	1.32
1:A:791:GLN:NE2	3:C:116:GLU:H	1.26	1.32
1:G:754:ASP:CB	1:G:776:GLU:OE2	1.74	1.32
1:P:635:GLY:CA	4:0:334:GLU:HG2	1.59	1.32
1:A:629:GLU:HA	1:A:643:GLY:O	1.17	1.32

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:629:GLU:HA	1:G:643:GLY:O	1.17	1.32
2:H:117:LEU:CD1	2:H:147:ASN:OD1	1.74	1.32
1:J:94:MET:O	1:J:713:SER:CB	1.74	1.32
1:J:797:PHE:CE1	3:L:146:ILE:CG2	2.11	1.32
4:0:167:GLU:CD	4:2:42:GLY:HA3	1.50	1.32
2:E:114:LYS:CA	2:E:146:GLY:O	1.76	1.32
1:J:721:LYS:CG	1:J:736:GLN:CD	1.98	1.32
1:J:725:ARG:NE	1:J:733:PRO:HB3	1.00	1.32
1:D:797:PHE:HE2	3:F:126:LEU:CD2	1.41	1.31
2:E:117:LEU:HB2	2:E:147:ASN:ND2	1.40	1.31
1:G:635:GLY:CA	4:V:334:GLU:HG2	1.59	1.31
1:G:795:ARG:NH2	3:I:116:GLU:HG2	1.44	1.31
1:P:534:SER:O	4:0:351:THR:CG2	1.64	1.31
4:1:287:ILE:CB	4:3:202:THR:HB	1.60	1.31
1:P:786:ILE:O	1:P:787:ILE:CG2	1.75	1.31
1:A:538:GLU:O	4:8:349:LEU:CD1	1.78	1.31
2:K:121:LEU:O	2:K:128:PHE:CB	1.78	1.31
1:P:725:ARG:NE	1:P:733:PRO:HB3	1.00	1.31
1:A:635:GLY:CA	4:8:334:GLU:HG2	1.59	1.31
1:D:725:ARG:NE	1:D:733:PRO:HB3	1.00	1.31
1:G:84:MLY:CG	1:G:723:ARG:CD	2.06	1.31
1:G:721:LYS:CG	1:G:736:GLN:CD	1.98	1.31
1:G:754:ASP:CB	1:G:776:GLU:CD	1.97	1.31
1:P:721:LYS:HG2	1:P:736:GLN:OE1	1.29	1.31
1:A:501:GLU:HG2	1:A:762:HIS:ND1	1.41	1.31
1:G:821:ARG:NH2	2:H:127:ARG:HG2	1.44	1.31
4:0:167:GLU:OE1	4:2:42:GLY:CA	1.79	1.31
4:W:324:THR:HG21	4:Y:247:VAL:N	0.98	1.31
1:D:814:PHE:HA	2:E:127:ARG:NH1	1.41	1.30
1:G:503:TYR:OH	1:G:711:PHE:HD2	1.02	1.30
1:G:538:GLU:O	4:V:349:LEU:CD1	1.78	1.30
1:P:538:GLU:O	4:0:349:LEU:CD1	1.78	1.30
1:D:599:ASN:HA	1:D:649:VAL:CB	1.60	1.30
1:D:795:ARG:HB3	3:F:35:ARG:CZ	1.60	1.30
1:G:725:ARG:NE	1:G:733:PRO:HB3	0.99	1.30
4:0:167:GLU:OE1	4:2:42:GLY:HA3	1.21	1.30
2:B:121:LEU:O	2:B:128:PHE:CB	1.79	1.30
2:E:121:LEU:O	2:E:128:PHE:CB	1.79	1.30
1:G:97:LEU:CD2	1:G:712:PRO:HB3	1.59	1.30
1:J:599:ASN:HA	1:J:649:VAL:CB	1.60	1.30
1:P:505:MLY:HD2	1:P:762:HIS:CD2	1.67	1.30

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:725:ARG:NE	1:A:733:PRO:HB3	0.99	1.30
1:A:800:ARG:HH22	3:C:40:ASN:ND2	1.29	1.30
1:D:215:GLN:N	1:D:340:ILE:HG12	1.20	1.30
1:P:548:THR:CG2	4:2:49:GLN:CB	2.09	1.30
1:P:721:LYS:CG	1:P:736:GLN:CG	1.97	1.30
1:A:813:ILE:HG22	2:B:127:ARG:CD	1.62	1.29
1:G:641:LYS:HG3	1:G:647:GLN:CD	1.45	1.29
1:J:831:TRP:CH2	2:K:47:LEU:CD2	2.15	1.29
1:P:721:LYS:CG	1:P:736:GLN:CD	1.98	1.29
4:0:243:PRO:C	4:Y:291:LYS:CE	1.78	1.29
1:A:149:GLN:NE2	1:A:718:ALA:CB	1.95	1.29
1:A:599:ASN:HA	1:A:649:VAL:CB	1.60	1.29
1:A:768:MLY:CB	1:A:771:LEU:HB2	1.62	1.29
1:G:757:GLN:HG2	1:G:776:GLU:OE2	1.19	1.29
1:J:831:TRP:CH2	2:K:47:LEU:HD21	1.68	1.29
1:P:215:GLN:N	1:P:340:ILE:HG12	1.19	1.29
1:P:537:GLU:C	4:0:349:LEU:HD13	1.52	1.29
1:P:599:ASN:HA	1:P:649:VAL:CB	1.60	1.29
2:Q:121:LEU:O	2:Q:128:PHE:CB	1.79	1.29
1:D:834:LEU:CD1	2:E:54:MET:CG	1.86	1.29
1:G:599:ASN:HA	1:G:649:VAL:CB	1.60	1.29
1:J:215:GLN:N	1:J:340:ILE:HG12	1.19	1.29
1:P:795:ARG:HB3	3:R:35:ARG:NH1	0.99	1.29
2:Q:144:VAL:CG1	2:Q:153:ILE:CG1	2.03	1.29
4:1:203:THR:N	4:Z:287:ILE:CG1	1.82	1.29
1:A:735:GLY:C	1:A:743:ALA:CB	2.01	1.29
1:D:831:TRP:CZ3	2:E:34:ILE:HG23	1.65	1.29
1:G:735:GLY:C	1:G:743:ALA:CB	2.01	1.29
4:W:325:MET:SD	4:Y:244:ASP:HB2	1.72	1.29
1:D:735:GLY:C	1:D:743:ALA:CB	2.01	1.29
1:D:791:GLN:OE1	3:F:116:GLU:HG3	1.29	1.29
1:G:838:ILE:HD11	2:H:54:MET:CE	1.62	1.29
1:J:506:GLU:OE2	1:J:761:GLY:HA2	1.22	1.29
1:J:537:GLU:C	4:W:349:LEU:HD13	1.52	1.29
1:P:548:THR:HG21	4:2:49:GLN:N	0.97	1.29
4:X:291:LYS:CE	4:Z:243:PRO:CB	2.06	1.29
1:G:721:LYS:HG2	1:G:736:GLN:OE1	1.29	1.28
1:G:752:ASP:O	1:G:780:ASP:HA	1.27	1.28
1:J:505:MLY:CD	1:J:762:HIS:CE1	2.16	1.28
1:J:721:LYS:HG2	1:J:736:GLN:OE1	1.29	1.28
1:A:735:GLY:O	1:A:743:ALA:HB2	1.29	1.28

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:641:LYS:HG3	1:D:647:GLN:CD	1.45	1.28
1:G:537:GLU:C	4:V:349:LEU:HD13	1.53	1.28
1:J:721:LYS:HG3	1:J:736:GLN:CD	1.54	1.28
1:A:795:ARG:CZ	3:C:116:GLU:OE2	1.81	1.28
1:G:552:ASN:O	4:X:47:MET:SD	1.91	1.28
1:P:735:GLY:C	1:P:743:ALA:CB	2.01	1.28
1:P:803:TYR:O	1:P:807:VAL:CB	1.82	1.28
1:A:797:PHE:CZ	3:C:146:ILE:CD1	2.16	1.28
1:G:791:GLN:HE22	3:I:115:GLY:CA	1.46	1.28
1:G:801:VAL:HG21	3:I:126:LEU:CD2	1.64	1.28
4:3:288:ASP:CG	4:5:203:THR:HG23	1.47	1.28
1:G:769:ALA:CB	1:G:770:GLY:HA2	1.64	1.28
1:A:537:GLU:C	4:8:349:LEU:HD13	1.52	1.27
2:H:121:LEU:O	2:H:128:PHE:CB	1.79	1.27
1:J:735:GLY:C	1:J:743:ALA:CB	2.01	1.27
1:P:505:MLY:HE3	1:P:762:HIS:CE1	1.21	1.27
4:3:288:ASP:OD2	4:5:203:THR:HG21	1.14	1.27
1:A:721:LYS:HG3	1:A:736:GLN:CD	1.54	1.27
1:A:831:TRP:CH2	2:B:50:THR:CG2	2.17	1.27
1:G:735:GLY:O	1:G:743:ALA:HB2	1.29	1.27
1:A:721:LYS:HG2	1:A:736:GLN:OE1	1.29	1.27
1:P:721:LYS:CG	1:P:736:GLN:OE1	1.83	1.27
4:0:288:ASP:CB	4:2:63:GLY:HA3	1.64	1.27
1:A:721:LYS:CG	1:A:736:GLN:OE1	1.83	1.27
1:G:97:LEU:CD2	1:G:712:PRO:CB	2.13	1.27
1:J:557:GLU:CA	4:Y:47:MET:HA	1.09	1.27
1:J:817:GLN:CG	2:K:127:ARG:HD2	1.63	1.27
1:P:786:ILE:O	1:P:788:THR:N	1.65	1.27
1:P:803:TYR:CE1	1:P:807:VAL:HG11	1.70	1.27
4:0:166:TYR:CZ	4:2:64:ILE:HG21	1.69	1.27
1:A:534:SER:O	4:8:351:THR:CA	1.81	1.27
1:D:534:SER:O	4:9:351:THR:CA	1.82	1.27
1:D:800:ARG:NH2	3:F:40:ASN:ND2	1.80	1.27
1:J:538:GLU:O	4:W:349:LEU:CD1	1.78	1.27
1:J:721:LYS:CG	1:J:736:GLN:OE1	1.83	1.27
1:A:149:GLN:HB2	1:A:718:ALA:CB	1.64	1.26
1:A:795:ARG:CD	3:C:43:ASN:OD1	1.83	1.26
1:G:721:LYS:HG3	1:G:736:GLN:CD	1.53	1.26
1:G:755:HIS:ND1	1:G:779:ARG:NH1	1.81	1.26
1:J:733:PRO:O	1:J:737:PHE:HD1	0.93	1.26
4:1:288:ASP:OD2	4:3:203:THR:HG21	1.32	1.26

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:538:GLU:O	4:9:349:LEU:CD1	1.78	1.26
1:D:831:TRP:CH2	2:E:47:LEU:HA	1.71	1.26
1:P:534:SER:O	4:0:351:THR:CA	1.82	1.26
1:D:537:GLU:C	4:9:349:LEU:HD13	1.52	1.26
1:G:97:LEU:HD23	1:G:712:PRO:CB	1.63	1.26
1:J:534:SER:O	4:W:351:THR:CA	1.81	1.26
1:P:819:ASN:ND2	2:Q:92:ASP:HB2	0.93	1.26
1:A:149:GLN:HG3	1:A:719:ASP:OD1	1.23	1.26
1:A:502:GLU:CA	1:A:761:GLY:HA3	1.65	1.26
1:G:28:GLN:HB3	1:G:723:ARG:NH1	1.48	1.26
1:G:795:ARG:NH2	3:I:116:GLU:CG	1.98	1.26
1:G:818:TYR:OH	2:H:127:ARG:NH2	1.64	1.26
1:J:829:TRP:CZ3	2:K:87:LYS:NZ	2.01	1.26
1:P:803:TYR:CD1	1:P:807:VAL:CG1	2.18	1.26
4:X:286:ASP:CG	4:Z:202:THR:HB	1.32	1.26
4:X:291:LYS:HD2	4:Z:244:ASP:N	1.48	1.26
1:G:733:PRO:O	1:G:737:PHE:HD1	0.93	1.25
1:G:818:TYR:CE1	2:H:127:ARG:NH2	2.03	1.25
1:A:93:MET:CE	1:A:715:VAL:HA	1.65	1.25
1:D:721:LYS:CG	1:D:736:GLN:OE1	1.82	1.25
1:G:84:MLY:HG2	1:G:723:ARG:CD	1.63	1.25
1:G:721:LYS:CG	1:G:736:GLN:OE1	1.83	1.25
2:B:117:LEU:CD1	2:B:147:ASN:CG	2.05	1.25
2:K:117:LEU:CD1	2:K:147:ASN:CG	2.04	1.25
4:1:202:THR:C	4:Z:287:ILE:HG12	1.56	1.25
1:A:795:ARG:CD	3:C:35:ARG:HH12	1.49	1.25
1:A:836:PHE:CZ	2:B:160:GLY:N	2.05	1.25
1:D:735:GLY:O	1:D:743:ALA:HB2	1.29	1.25
1:J:630:ALA:O	4:W:25:ASP:OD2	1.52	1.25
1:P:804:ARG:CG	1:P:808:GLU:CD	2.05	1.25
1:P:817:GLN:CD	2:Q:127:ARG:HD2	1.55	1.25
1:A:768:MLY:HB3	1:A:771:LEU:CB	1.65	1.25
1:A:799:MET:CE	3:C:32:ASP:HB3	1.65	1.25
1:G:534:SER:O	4:V:351:THR:CA	1.83	1.25
2:H:117:LEU:CD1	2:H:147:ASN:CG	2.05	1.25
1:J:788:THR:O	3:L:42:THR:HG21	1.24	1.25
1:J:819:ASN:CG	2:K:92:ASP:HB2	1.56	1.25
4:V:324:THR:HG21	4:X:247:VAL:N	1.49	1.25
2:B:54:MET:HA	2:H:21:GLU:OE1	1.34	1.24
2:B:117:LEU:HD12	2:B:147:ASN:OD1	1.32	1.24
1:D:641:LYS:CG	1:D:647:GLN:CG	2.15	1.24

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:733:PRO:O	1:D:737:PHE:HD1	0.93	1.24
1:G:707:CYS:SG	1:G:714:ARG:NH2	2.10	1.24
1:J:84:MLY:HH21	1:J:720:PHE:CA	1.66	1.24
4:0:112:PRO:CG	4:1:195:GLU:C	2.00	1.24
2:E:117:LEU:CD1	2:E:147:ASN:CG	2.05	1.24
4:9:322:PRO:CB	4:W:244:ASP:OD2	1.86	1.24
1:G:646:PHE:CE2	1:G:652:LEU:HD11	1.73	1.24
1:G:800:ARG:NH2	3:I:40:ASN:OD1	1.69	1.24
1:J:641:LYS:CD	1:J:647:GLN:NE2	1.99	1.24
1:P:630:ALA:O	4:0:25:ASP:OD2	1.52	1.24
1:D:646:PHE:CE2	1:D:652:LEU:HD11	1.73	1.24
1:D:800:ARG:NH2	3:F:40:ASN:HD21	1.36	1.24
1:G:94:MET:O	1:G:713:SER:HB3	1.19	1.24
1:J:94:MET:C	1:J:713:SER:HB3	1.58	1.24
1:J:641:LYS:CG	1:J:647:GLN:CG	2.16	1.24
1:J:756:THR:HG22	1:J:776:GLU:CB	1.67	1.24
1:J:819:ASN:HA	2:K:90:GLY:O	1.17	1.24
1:P:552:ASN:HD22	4:2:49:GLN:CG	1.49	1.24
1:P:785:GLU:O	1:P:788:THR:OG1	1.54	1.24
4:0:288:ASP:CG	4:2:63:GLY:N	1.91	1.24
4:V:325:MET:SD	4:X:244:ASP:HB2	1.77	1.24
1:P:641:LYS:CG	1:P:647:GLN:CG	2.16	1.24
4:7:322:PRO:CB	4:9:244:ASP:OD2	1.86	1.24
1:A:646:PHE:CE2	1:A:652:LEU:HD11	1.73	1.23
1:A:733:PRO:O	1:A:737:PHE:HD1	0.93	1.23
1:J:817:GLN:HB3	2:K:127:ARG:CD	1.67	1.23
1:P:641:LYS:CD	1:P:647:GLN:NE2	1.99	1.23
1:G:831:TRP:CZ2	2:H:47:LEU:HD21	1.72	1.23
2:Q:121:LEU:C	2:Q:128:PHE:CB	2.07	1.23
1:D:538:GLU:C	4:9:349:LEU:HD12	1.48	1.23
2:H:144:VAL:CG1	2:H:153:ILE:HD11	1.64	1.23
1:P:819:ASN:HA	2:Q:90:GLY:O	1.10	1.23
4:8:322:PRO:CB	4:V:244:ASP:OD2	1.86	1.23
1:A:505:MLY:CG	1:A:762:HIS:CD2	2.22	1.23
1:A:629:GLU:CA	1:A:643:GLY:O	1.87	1.23
1:A:630:ALA:O	4:8:25:ASP:OD2	1.53	1.23
1:D:721:LYS:HG3	1:D:736:GLN:CD	1.53	1.23
1:G:538:GLU:C	4:V:349:LEU:HD12	1.48	1.23
1:J:646:PHE:CE2	1:J:652:LEU:HD11	1.73	1.23
1:J:735:GLY:O	1:J:743:ALA:HB2	1.29	1.23
1:P:538:GLU:C	4:0:349:LEU:HD12	1.48	1.23

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:646:PHE:CE2	1:P:652:LEU:HD11	1.73	1.23
1:P:733:PRO:O	1:P:737:PHE:HD1	0.93	1.23
4:1:202:THR:CB	4:Z:287:ILE:CG2	2.09	1.23
1:A:834:LEU:HD21	2:B:54:MET:SD	1.78	1.23
1:D:795:ARG:NH2	3:F:116:GLU:CD	1.91	1.23
1:P:215:GLN:N	1:P:340:ILE:CG1	2.02	1.23
1:P:502:GLU:OE2	1:P:761:GLY:HA3	1.38	1.23
1:A:641:LYS:CG	1:A:647:GLN:CG	2.16	1.22
1:D:838:ILE:HD12	2:E:54:MET:CE	1.65	1.22
1:G:557:GLU:CB	4:X:46:GLY:O	1.86	1.22
1:J:84:MLY:CH1	1:J:720:PHE:CD1	2.22	1.22
1:A:534:SER:O	4:8:351:THR:CB	1.87	1.22
2:K:117:LEU:HD12	2:K:147:ASN:OD1	1.32	1.22
1:P:721:LYS:HG3	1:P:736:GLN:CD	1.54	1.22
1:P:818:TYR:CE1	2:Q:127:ARG:NH2	2.07	1.22
1:A:215:GLN:N	1:A:340:ILE:CG1	2.02	1.22
1:A:538:GLU:O	4:8:349:LEU:HD11	1.35	1.22
1:G:28:GLN:CB	1:G:723:ARG:HH12	1.50	1.22
1:J:215:GLN:N	1:J:340:ILE:CG1	2.02	1.22
1:P:629:GLU:CA	1:P:643:GLY:O	1.87	1.22
4:1:287:ILE:CB	4:3:203:THR:N	2.00	1.22
1:D:630:ALA:O	4:9:25:ASP:OD2	1.52	1.22
2:E:121:LEU:C	2:E:128:PHE:CB	2.07	1.22
1:G:641:LYS:CD	1:G:647:GLN:NE2	1.99	1.22
1:G:817:GLN:OE1	2:H:127:ARG:HD2	1.37	1.22
1:P:534:SER:O	4:0:351:THR:CB	1.87	1.22
2:B:121:LEU:C	2:B:128:PHE:CB	2.07	1.22
1:D:641:LYS:CD	1:D:647:GLN:NE2	1.99	1.22
1:G:567:LYS:NZ	4:X:92:ASN:ND2	1.86	1.22
1:J:534:SER:O	4:W:351:THR:CB	1.87	1.22
1:A:641:LYS:CD	1:A:647:GLN:NE2	1.99	1.21
1:G:215:GLN:N	1:G:340:ILE:CG1	2.02	1.21
1:J:756:THR:HG21	1:J:776:GLU:O	1.33	1.21
4:W:324:THR:CG2	4:Y:247:VAL:N	1.89	1.21
1:A:505:MLY:CG	1:A:762:HIS:HD2	1.51	1.21
1:D:713:SER:N	1:D:771:LEU:HD22	1.52	1.21
1:G:215:GLN:N	1:G:340:ILE:HG12	1.19	1.21
1:A:641:LYS:CG	1:A:647:GLN:HG3	1.71	1.21
1:D:838:ILE:CD1	2:E:54:MET:SD	2.26	1.21
1:G:791:GLN:NE2	3:I:115:GLY:CA	2.02	1.21
1:J:629:GLU:CA	1:J:643:GLY:O	1.87	1.21

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:552:ASN:ND2	4:2:49:GLN:CG	2.03	1.21
4:0:166:TYR:OH	4:2:64:ILE:HG21	1.33	1.21
1:D:534:SER:O	4:9:351:THR:CB	1.88	1.21
1:G:629:GLU:CA	1:G:643:GLY:O	1.87	1.21
1:G:641:LYS:CG	1:G:647:GLN:HG3	1.71	1.21
2:H:121:LEU:C	2:H:128:PHE:CB	2.07	1.21
4:2:322:PRO:HB3	4:4:244:ASP:OD2	1.39	1.21
1:D:215:GLN:N	1:D:340:ILE:CG1	2.02	1.21
1:D:629:GLU:CA	1:D:643:GLY:O	1.87	1.21
1:D:641:LYS:CG	1:D:647:GLN:HG3	1.70	1.21
1:G:538:GLU:O	4:V:349:LEU:HD11	1.34	1.21
1:J:817:GLN:CB	2:K:127:ARG:HD2	1.69	1.21
1:P:831:TRP:CZ2	2:Q:47:LEU:CD2	2.22	1.21
1:G:838:ILE:CD1	2:H:54:MET:HE3	1.69	1.20
1:J:756:THR:HG21	1:J:776:GLU:C	1.57	1.20
2:K:121:LEU:C	2:K:128:PHE:CB	2.07	1.20
4:3:287:ILE:HD13	4:5:203:THR:HB	1.22	1.20
1:J:820:VAL:HG11	2:K:136:MET:CE	1.71	1.20
1:P:797:PHE:HE1	3:R:146:ILE:CD1	1.37	1.20
1:A:709:LYS:C	1:A:710:GLY:HA3	1.61	1.20
1:A:797:PHE:CD1	3:C:146:ILE:O	1.95	1.20
1:D:769:ALA:C	1:D:774:LEU:HB2	1.62	1.20
2:E:117:LEU:CD1	2:E:147:ASN:CB	2.19	1.20
1:G:534:SER:O	4:V:351:THR:CB	1.88	1.20
1:G:819:ASN:CG	2:H:92:ASP:CB	2.00	1.20
1:P:538:GLU:OE2	4:0:355:MET:CE	1.90	1.20
2:Q:117:LEU:CD1	2:Q:147:ASN:CG	2.04	1.20
2:Q:117:LEU:CD1	2:Q:147:ASN:CB	2.19	1.20
4:1:288:ASP:CG	4:3:203:THR:HG21	1.59	1.20
1:A:721:LYS:CG	1:A:736:GLN:CG	1.97	1.20
1:G:783:LEU:O	1:G:787:ILE:N	1.71	1.20
4:9:322:PRO:HB2	4:W:244:ASP:OD2	1.39	1.20
1:G:792:ALA:HB3	3:I:42:THR:HG22	1.20	1.20
1:G:819:ASN:ND2	2:H:92:ASP:CB	2.04	1.20
1:J:557:GLU:HA	4:Y:47:MET:C	1.62	1.20
4:1:288:ASP:CG	4:3:203:THR:CG2	2.09	1.20
1:A:538:GLU:C	4:8:349:LEU:HD12	1.48	1.19
1:A:707:CYS:HA	1:A:714:ARG:CZ	1.72	1.19
1:A:797:PHE:CE2	3:C:146:ILE:HD12	1.77	1.19
2:B:117:LEU:CD1	2:B:147:ASN:CB	2.19	1.19
1:G:538:GLU:OE2	4:V:355:MET:CE	1.90	1.19

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:117:LEU:CD1	2:K:147:ASN:CB	2.19	1.19
1:A:97:LEU:CD2	1:A:712:PRO:HB3	1.72	1.19
1:G:792:ALA:CB	3:I:42:THR:CG2	1.80	1.19
1:J:538:GLU:OE2	4:W:355:MET:CE	1.90	1.19
1:P:97:LEU:CD2	1:P:712:PRO:HB3	1.70	1.19
1:P:641:LYS:CG	1:P:647:GLN:HG3	1.71	1.19
1:P:735:GLY:O	1:P:743:ALA:CB	1.91	1.19
1:P:836:PHE:CZ	2:Q:160:GLY:N	2.10	1.19
4:1:287:ILE:CG1	4:3:202:THR:CA	2.19	1.19
1:A:499:GLU:OE1	1:A:766:PHE:HZ	1.09	1.19
2:H:117:LEU:CD1	2:H:147:ASN:CB	2.19	1.19
1:J:819:ASN:OD1	2:K:92:ASP:N	1.74	1.19
4:X:291:LYS:HE3	4:Z:243:PRO:HB3	1.24	1.19
1:A:538:GLU:OE2	4:8:355:MET:CE	1.91	1.19
1:D:553:MLY:CE	4:W:45:VAL:HA	1.52	1.19
1:J:754:ASP:CA	1:J:780:ASP:OD2	1.89	1.19
1:P:552:ASN:HD21	4:2:49:GLN:CB	1.55	1.19
1:D:831:TRP:CZ2	2:E:47:LEU:HD23	1.73	1.19
1:G:797:PHE:CE1	3:I:146:ILE:HG23	1.77	1.19
4:8:322:PRO:HB2	4:V:244:ASP:OD2	1.39	1.19
4:X:286:ASP:OD1	4:Z:202:THR:HB	1.05	1.19
1:A:557:GLU:H	4:V:48:GLY:CA	1.56	1.18
1:A:736:GLN:N	1:A:743:ALA:CB	2.05	1.18
1:D:538:GLU:OE2	4:9:355:MET:CE	1.90	1.18
1:D:735:GLY:O	1:D:743:ALA:CB	1.91	1.18
1:G:797:PHE:CZ	3:I:126:LEU:HD22	1.75	1.18
1:A:538:GLU:C	4:8:349:LEU:HD11	1.54	1.18
1:A:798:LEU:HD11	3:C:126:LEU:CD2	1.72	1.18
1:D:797:PHE:CD1	3:F:146:ILE:CG2	2.25	1.18
1:G:641:LYS:CB	1:G:647:GLN:NE2	2.07	1.18
1:J:641:LYS:CG	1:J:647:GLN:HG3	1.71	1.18
1:P:829:TRP:HZ3	2:Q:84:PHE:CZ	1.60	1.18
1:J:538:GLU:C	4:W:349:LEU:HD12	1.48	1.18
1:P:831:TRP:CH2	2:Q:47:LEU:HD21	1.70	1.18
1:A:215:GLN:N	1:A:340:ILE:HG12	1.20	1.18
1:A:800:ARG:HB3	3:C:149:VAL:HG22	1.19	1.18
2:B:144:VAL:CG1	2:B:153:ILE:HD11	1.64	1.18
1:D:713:SER:N	1:D:771:LEU:CD2	1.96	1.18
1:G:557:GLU:HA	4:X:48:GLY:N	1.13	1.18
1:J:818:TYR:CE1	2:K:127:ARG:CZ	2.27	1.18
1:P:818:TYR:CZ	2:Q:127:ARG:NH2	2.11	1.18

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:0:205:GLU:HG3	4:Y:287:ILE:CG1	1.73	1.18
1:A:818:TYR:HB2	2:B:90:GLY:CA	1.73	1.18
1:D:557:GLU:H	4:W:48:GLY:CA	1.56	1.18
1:G:721:LYS:HA	1:G:736:GLN:NE2	1.58	1.18
1:J:538:GLU:HA	4:W:349:LEU:CD1	1.55	1.18
1:J:641:LYS:CB	1:J:647:GLN:NE2	2.07	1.18
1:P:641:LYS:CB	1:P:647:GLN:NE2	2.07	1.18
1:A:836:PHE:CE1	2:B:159:HIS:HB2	1.79	1.17
1:G:817:GLN:CD	2:H:127:ARG:HD2	1.65	1.17
1:P:503:TYR:OH	1:P:711:PHE:HD2	1.23	1.17
1:P:538:GLU:HA	4:0:349:LEU:CD1	1.55	1.17
2:E:144:VAL:CG1	2:E:153:ILE:HD11	1.64	1.17
1:G:505:MLY:NZ	1:G:762:HIS:CE1	2.12	1.17
1:G:796:GLY:HA2	3:I:35:ARG:HD3	1.25	1.17
2:H:117:LEU:HD12	2:H:147:ASN:OD1	1.32	1.17
1:J:721:LYS:HA	1:J:736:GLN:NE2	1.59	1.17
1:P:552:ASN:ND2	4:2:49:GLN:CB	2.08	1.17
1:P:739:ASP:HB3	1:P:742:LYS:HB3	1.21	1.17
4:8:290:ARG:NH2	4:V:202:THR:HG23	1.59	1.17
1:D:799:MET:SD	3:F:32:ASP:CA	2.32	1.17
1:G:735:GLY:O	1:G:743:ALA:CB	1.91	1.17
1:P:641:LYS:CE	4:0:348:SER:O	1.93	1.17
1:A:93:MET:HE2	1:A:715:VAL:CA	1.72	1.17
1:A:641:LYS:CB	1:A:647:GLN:NE2	2.07	1.17
1:A:735:GLY:O	1:A:743:ALA:CB	1.91	1.17
1:A:791:GLN:OE1	3:C:116:GLU:HG3	1.38	1.17
1:D:721:LYS:HA	1:D:736:GLN:NE2	1.58	1.17
1:D:797:PHE:CE1	3:F:146:ILE:HA	1.79	1.17
1:G:553:MLY:CE	4:X:45:VAL:CB	2.22	1.17
1:P:786:ILE:HG23	1:P:787:ILE:CB	1.73	1.17
1:P:792:ALA:CA	3:R:42:THR:HG22	1.74	1.17
1:A:201:ALA:O	1:A:202:SER:HB3	1.35	1.17
1:D:538:GLU:HA	4:9:349:LEU:CD1	1.54	1.17
1:D:641:LYS:CE	4:9:348:SER:O	1.93	1.17
1:D:823:PHE:HE1	2:E:160:GLY:CA	1.55	1.17
1:G:503:TYR:CE1	1:G:711:PHE:CE2	2.33	1.17
1:G:797:PHE:CE2	3:I:126:LEU:CD2	2.28	1.17
1:J:641:LYS:CE	4:W:348:SER:O	1.93	1.17
1:J:756:THR:CG2	1:J:776:GLU:CA	2.22	1.17
1:D:641:LYS:CB	1:D:647:GLN:NE2	2.07	1.16
1:G:201:ALA:O	1:G:202:SER:HB3	1.35	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:557:GLU:HB3	4:X:46:GLY:O	0.99	1.16
1:G:739:ASP:HB3	1:G:742:LYS:HB3	1.21	1.16
1:J:530:MET:HE2	4:W:354:GLN:HG2	1.22	1.16
1:J:797:PHE:CE1	3:L:146:ILE:HD12	1.80	1.16
1:J:817:GLN:CG	2:K:127:ARG:HB2	1.74	1.16
1:J:817:GLN:CD	2:K:127:ARG:HD2	1.66	1.16
1:P:538:GLU:C	4:0:349:LEU:HD11	1.54	1.16
1:P:548:THR:HG21	4:2:49:GLN:CA	1.75	1.16
4:7:322:PRO:HB2	4:9:244:ASP:OD2	1.39	1.16
1:A:149:GLN:CD	1:A:716:LEU:HD23	1.64	1.16
1:J:735:GLY:O	1:J:743:ALA:CB	1.91	1.16
2:K:144:VAL:CG1	2:K:153:ILE:HD11	1.64	1.16
1:P:548:THR:HG22	4:2:49:GLN:CB	1.70	1.16
2:Q:144:VAL:CG1	2:Q:153:ILE:HD11	1.65	1.16
4:X:291:LYS:CD	4:Z:244:ASP:N	2.07	1.16
1:A:95:THR:OG1	1:A:769:ALA:CA	1.94	1.16
1:A:95:THR:OG1	1:A:769:ALA:C	1.84	1.16
1:A:800:ARG:NH2	3:C:40:ASN:HD21	1.42	1.16
1:G:201:ALA:O	1:G:202:SER:CB	1.92	1.16
1:G:215:GLN:HA	1:G:340:ILE:CG2	1.75	1.16
1:G:553:MLY:HG3	4:X:45:VAL:O	1.01	1.16
1:G:642:LYS:CG	4:V:23:GLY:N	2.08	1.16
1:J:829:TRP:CZ2	2:K:87:LYS:HE2	1.80	1.16
1:P:548:THR:HG22	4:2:49:GLN:HB2	1.18	1.16
1:P:642:LYS:CG	4:0:23:GLY:N	2.08	1.16
4:9:290:ARG:NH2	4:W:202:THR:HG23	1.59	1.16
1:A:553:MLY:CE	4:V:45:VAL:HA	1.52	1.16
1:A:641:LYS:HD2	1:A:647:GLN:NE2	1.59	1.16
1:A:797:PHE:CE1	3:C:146:ILE:CA	2.27	1.16
1:G:795:ARG:CZ	3:I:116:GLU:CD	2.13	1.16
2:H:111:SER:CB	2:H:148:VAL:C	1.93	1.16
1:J:215:GLN:HA	1:J:340:ILE:CG2	1.75	1.16
1:P:649:VAL:CG2	1:P:649:VAL:HA	1.76	1.16
1:A:641:LYS:CE	4:8:348:SER:O	1.93	1.16
1:A:798:LEU:HD11	3:C:126:LEU:HD21	1.21	1.16
2:B:117:LEU:CD1	2:B:147:ASN:HB3	1.75	1.16
1:D:538:GLU:OE2	4:9:355:MET:HE1	1.45	1.16
1:P:84:MLY:HG2	1:P:723:ARG:NE	1.59	1.16
1:P:792:ALA:N	3:R:42:THR:HG22	1.60	1.16
1:P:804:ARG:CG	1:P:808:GLU:CG	2.24	1.16
1:A:721:LYS:HA	1:A:736:GLN:NE2	1.58	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:799:MET:SD	3:C:32:ASP:CA	2.34	1.15
1:A:819:ASN:ND2	2:B:92:ASP:N	1.95	1.15
1:D:641:LYS:HD2	1:D:647:GLN:NE2	1.58	1.15
1:G:641:LYS:HD2	1:G:647:GLN:NE2	1.58	1.15
1:J:201:ALA:O	1:J:202:SER:CB	1.92	1.15
2:K:117:LEU:CD1	2:K:147:ASN:HB3	1.76	1.15
1:P:721:LYS:HA	1:P:736:GLN:NE2	1.58	1.15
4:7:290:ARG:NH2	4:9:202:THR:HG23	1.59	1.15
4:V:325:MET:SD	4:X:244:ASP:CB	2.33	1.15
1:A:639:GLY:CA	4:8:345:ILE:HA	1.74	1.15
1:G:640:LYS:HB3	1:G:645:SER:OG	1.46	1.15
1:G:795:ARG:HH21	3:I:116:GLU:CG	1.59	1.15
1:J:640:LYS:HB3	1:J:645:SER:OG	1.45	1.15
1:J:642:LYS:CG	4:W:23:GLY:N	2.08	1.15
1:P:215:GLN:HA	1:P:340:ILE:CG2	1.75	1.15
1:A:530:MET:HE2	4:8:354:GLN:CG	1.77	1.15
1:A:542:PHE:HA	4:8:143:TYR:CE1	1.82	1.15
1:D:542:PHE:HA	4:9:143:TYR:CE1	1.82	1.15
1:D:649:VAL:HA	1:D:649:VAL:CG2	1.76	1.15
1:D:736:GLN:N	1:D:743:ALA:CB	2.05	1.15
1:D:813:ILE:HD13	2:E:128:PHE:CE1	1.81	1.15
1:G:553:MLY:HE2	4:X:45:VAL:CB	1.75	1.15
1:G:769:ALA:CB	1:G:770:GLY:CA	2.25	1.15
2:H:111:SER:CA	2:H:148:VAL:O	1.95	1.15
1:P:530:MET:HE2	4:0:354:GLN:CG	1.77	1.15
1:P:542:PHE:HA	4:0:143:TYR:CE1	1.82	1.15
1:P:639:GLY:HA3	4:0:344:SER:O	1.46	1.15
1:A:215:GLN:HA	1:A:340:ILE:CG2	1.76	1.15
1:A:791:GLN:HE22	3:C:116:GLU:N	1.42	1.15
1:J:538:GLU:C	4:W:349:LEU:HD11	1.54	1.15
1:J:538:GLU:OE2	4:W:355:MET:HE1	1.44	1.15
1:J:542:PHE:HA	4:W:143:TYR:CE1	1.82	1.15
1:J:635:GLY:HA2	4:W:334:GLU:HG2	1.16	1.15
1:P:641:LYS:HD2	1:P:647:GLN:NE2	1.59	1.15
1:A:553:MLY:HB3	4:V:46:GLY:CA	1.51	1.15
1:A:639:GLY:HA3	4:8:344:SER:O	1.47	1.15
1:D:215:GLN:HA	1:D:340:ILE:CG2	1.76	1.15
1:D:538:GLU:C	4:9:349:LEU:HD11	1.54	1.15
1:G:505:MLY:HH23	1:G:762:HIS:ND1	1.49	1.15
1:J:641:LYS:HD2	1:J:647:GLN:NE2	1.59	1.15
1:J:736:GLN:N	1:J:743:ALA:CB	2.05	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:548:THR:CG2	4:2:49:GLN:CA	2.24	1.15
1:P:799:MET:HB2	3:R:35:ARG:HD3	1.22	1.15
2:Q:117:LEU:CD1	2:Q:147:ASN:HB3	1.76	1.15
4:0:112:PRO:CB	4:1:196:ARG:CA	2.17	1.15
4:1:203:THR:CG2	4:Z:287:ILE:HB	1.77	1.15
4:X:325:MET:SD	4:Z:244:ASP:OD2	2.04	1.15
2:B:112:ILE:O	2:B:147:ASN:O	1.65	1.14
1:D:642:LYS:CG	4:9:23:GLY:N	2.08	1.14
2:H:121:LEU:CA	2:H:128:PHE:HB3	1.77	1.14
1:J:639:GLY:HA3	4:W:344:SER:O	1.46	1.14
1:J:757:GLN:NE2	1:J:777:GLU:N	1.94	1.14
2:K:121:LEU:C	2:K:128:PHE:HB2	1.67	1.14
1:P:635:GLY:HA2	4:0:334:GLU:HG2	1.16	1.14
1:P:797:PHE:CZ	3:R:146:ILE:CD1	2.20	1.14
1:P:804:ARG:HG2	1:P:808:GLU:CG	1.77	1.14
4:0:288:ASP:HB2	4:2:63:GLY:CA	1.75	1.14
1:A:502:GLU:CG	1:A:761:GLY:HA3	1.78	1.14
1:A:642:LYS:CG	4:8:23:GLY:N	2.09	1.14
2:B:111:SER:CA	2:B:148:VAL:O	1.95	1.14
1:D:640:LYS:HB3	1:D:645:SER:OG	1.46	1.14
1:D:815:CYS:SG	2:E:92:ASP:HB2	1.86	1.14
1:G:542:PHE:HA	4:V:143:TYR:CE1	1.82	1.14
1:G:639:GLY:HA3	4:V:344:SER:O	1.46	1.14
1:G:641:LYS:CE	4:V:348:SER:O	1.93	1.14
1:G:649:VAL:HA	1:G:649:VAL:CG2	1.76	1.14
1:P:831:TRP:CZ2	2:Q:47:LEU:HD22	1.80	1.14
4:0:288:ASP:CG	4:2:63:GLY:H	1.45	1.14
1:A:649:VAL:HG13	1:A:649:VAL:HG22	1.21	1.14
1:A:649:VAL:HA	1:A:649:VAL:CG2	1.76	1.14
1:D:639:GLY:CA	4:9:345:ILE:HA	1.73	1.14
1:D:641:LYS:HG3	1:D:647:GLN:HG3	1.20	1.14
1:G:754:ASP:HB2	1:G:776:GLU:CD	1.63	1.14
2:H:117:LEU:CD1	2:H:147:ASN:HB3	1.76	1.14
1:J:649:VAL:HA	1:J:649:VAL:CG2	1.76	1.14
2:K:121:LEU:CA	2:K:128:PHE:HB3	1.77	1.14
1:P:640:LYS:HB3	1:P:645:SER:OG	1.45	1.14
1:A:640:LYS:HB3	1:A:645:SER:OG	1.46	1.14
2:B:121:LEU:CA	2:B:128:PHE:HB3	1.77	1.14
1:D:635:GLY:HA2	4:9:334:GLU:HG2	1.16	1.14
1:D:641:LYS:NZ	4:9:348:SER:O	1.80	1.14
1:G:753:VAL:CA	1:G:780:ASP:OD1	1.94	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:783:LEU:CG	1:P:786:ILE:HD11	1.76	1.14
2:Q:121:LEU:C	2:Q:128:PHE:HB2	1.67	1.14
4:W:325:MET:SD	4:Y:244:ASP:CB	2.35	1.14
1:A:498:LEU:CD2	1:A:764:MLY:HH22	1.78	1.14
1:A:795:ARG:HD2	3:C:35:ARG:HH12	1.01	1.14
1:A:819:ASN:OD1	2:B:91:ALA:HA	1.44	1.14
1:G:639:GLY:HA2	4:V:345:ILE:HA	1.26	1.14
4:7:287:ILE:HG21	4:9:205:GLU:HG2	1.17	1.14
1:A:149:GLN:CB	1:A:719:ASP:N	2.11	1.13
1:D:639:GLY:HA3	4:9:344:SER:O	1.46	1.13
1:D:795:ARG:CB	3:F:35:ARG:HH12	1.51	1.13
2:E:117:LEU:HD12	2:E:147:ASN:OD1	1.32	1.13
1:G:599:ASN:OD1	1:G:649:VAL:CB	1.96	1.13
1:J:739:ASP:HB3	1:J:742:LYS:HB3	1.21	1.13
1:J:792:ALA:HA	3:L:42:THR:HA	1.29	1.13
2:K:111:SER:CA	2:K:148:VAL:O	1.95	1.13
2:Q:111:SER:CA	2:Q:148:VAL:O	1.95	1.13
4:W:324:THR:HG21	4:Y:246:GLN:C	1.61	1.13
1:A:641:LYS:CE	1:A:647:GLN:OE1	1.97	1.13
1:D:713:SER:H	1:D:771:LEU:HD22	0.98	1.13
2:E:111:SER:CA	2:E:148:VAL:O	1.95	1.13
1:J:541:MET:C	4:W:143:TYR:OH	1.87	1.13
1:J:557:GLU:HA	4:Y:47:MET:CA	1.48	1.13
1:P:599:ASN:OD1	1:P:649:VAL:CB	1.96	1.13
1:P:793:ARG:CZ	3:R:87:PHE:HE1	1.60	1.13
1:P:804:ARG:CG	1:P:808:GLU:HG3	1.78	1.13
1:P:820:VAL:HG11	2:Q:136:MET:HE3	1.18	1.13
1:A:599:ASN:OD1	1:A:649:VAL:CB	1.96	1.13
1:D:201:ALA:O	1:D:202:SER:HB3	1.36	1.13
1:D:599:ASN:OD1	1:D:649:VAL:CB	1.96	1.13
1:D:797:PHE:CE2	3:F:126:LEU:CD2	2.21	1.13
1:G:84:MLY:CB	1:G:723:ARG:NE	2.12	1.13
1:G:538:GLU:C	4:V:349:LEU:HD11	1.54	1.13
1:G:831:TRP:CZ2	2:H:47:LEU:CD2	2.29	1.13
1:J:641:LYS:CE	1:J:647:GLN:OE1	1.97	1.13
1:P:538:GLU:OE2	4:0:355:MET:HE1	1.46	1.13
1:P:552:ASN:HD22	4:2:49:GLN:HG3	1.03	1.13
1:P:795:ARG:NH2	3:R:116:GLU:OE1	1.78	1.13
1:P:819:ASN:CA	2:Q:90:GLY:O	1.96	1.13
4:1:203:THR:HG21	4:Z:288:ASP:CG	1.68	1.13
1:G:649:VAL:HG22	1:G:649:VAL:HG13	1.21	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:112:ILE:O	2:K:147:ASN:O	1.65	1.13
1:P:201:ALA:O	1:P:202:SER:HB3	1.36	1.13
1:P:530:MET:HE2	4:0:354:GLN:HG2	1.17	1.13
1:P:641:LYS:CE	1:P:647:GLN:OE1	1.97	1.13
1:P:641:LYS:NZ	4:0:348:SER:O	1.80	1.13
4:9:287:ILE:HG21	4:W:205:GLU:HG2	1.17	1.13
1:A:538:GLU:OE2	4:8:355:MET:HE1	1.49	1.12
1:A:641:LYS:NZ	4:8:348:SER:O	1.80	1.13
1:A:541:MET:C	4:8:143:TYR:OH	1.87	1.12
1:D:541:MET:C	4:9:143:TYR:OH	1.87	1.12
1:D:641:LYS:CE	1:D:647:GLN:OE1	1.97	1.12
2:E:121:LEU:C	2:E:128:PHE:HB2	1.67	1.12
1:J:599:ASN:OD1	1:J:649:VAL:CB	1.96	1.13
1:J:768:MLY:HH11	1:J:772:LEU:CD1	1.69	1.13
1:P:786:ILE:O	1:P:787:ILE:HG22	0.97	1.13
3:F:48:LYS:C	3:F:52:ASN:ND2	2.03	1.12
1:G:641:LYS:NZ	4:V:348:SER:O	1.80	1.12
1:J:838:ILE:HD11	2:K:54:MET:HE3	1.20	1.12
1:P:506:GLU:OE2	1:P:760:PHE:HB2	1.48	1.12
4:0:201:VAL:N	4:Y:287:ILE:HG12	1.43	1.12
4:W:325:MET:HE2	4:Y:244:ASP:OD2	1.49	1.12
1:D:712:PRO:HG2	1:D:771:LEU:HB2	1.26	1.12
1:D:800:ARG:NH2	3:F:40:ASN:CG	2.01	1.12
1:D:834:LEU:HD21	2:E:54:MET:HE2	1.26	1.12
1:G:541:MET:C	4:V:143:TYR:OH	1.87	1.12
1:G:641:LYS:CE	1:G:647:GLN:OE1	1.97	1.12
2:K:111:SER:HB3	2:K:148:VAL:O	1.50	1.12
1:P:218:LEU:HB2	1:P:221:GLN:HG3	1.17	1.12
1:P:804:ARG:HG3	1:P:808:GLU:HG3	1.22	1.12
1:P:819:ASN:CG	2:Q:92:ASP:CB	2.02	1.12
2:Q:112:ILE:O	2:Q:147:ASN:O	1.65	1.12
3:R:48:LYS:C	3:R:52:ASN:ND2	2.03	1.12
1:A:721:LYS:HG3	1:A:736:GLN:HG2	1.25	1.12
1:D:201:ALA:O	1:D:202:SER:CB	1.92	1.12
1:D:795:ARG:CZ	3:F:116:GLU:CD	2.16	1.12
1:D:813:ILE:HD13	2:E:128:PHE:HE1	1.03	1.12
2:E:121:LEU:CA	2:E:128:PHE:HB3	1.77	1.12
1:G:639:GLY:CA	4:V:345:ILE:HA	1.73	1.12
1:J:756:THR:C	1:J:776:GLU:OE1	1.87	1.12
1:P:541:MET:C	4:0:143:TYR:OH	1.87	1.12
1:A:502:GLU:HG3	1:A:761:GLY:N	1.63	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:530:MET:HE2	4:8:354:GLN:HG2	1.17	1.12
1:A:792:ALA:CB	3:C:42:THR:HG22	1.80	1.12
1:D:530:MET:HE2	4:9:354:GLN:HG2	1.21	1.12
2:E:117:LEU:CD1	2:E:147:ASN:HB3	1.75	1.12
1:J:623:PHE:CG	1:J:623:PHE:CB	2.33	1.12
1:P:552:ASN:HD21	4:2:49:GLN:HB3	0.99	1.12
1:P:721:LYS:HG3	1:P:736:GLN:HG2	1.25	1.12
4:X:324:THR:CG2	4:Z:247:VAL:CG2	2.26	1.12
1:A:201:ALA:O	1:A:202:SER:CB	1.92	1.12
1:G:93:MET:HA	1:G:714:ARG:H	1.03	1.12
1:G:556:ASP:CG	4:X:47:MET:HE3	1.48	1.12
3:I:48:LYS:C	3:I:52:ASN:ND2	2.03	1.12
1:J:641:LYS:NZ	4:W:348:SER:O	1.80	1.12
4:1:287:ILE:HG23	4:3:202:THR:OG1	1.48	1.12
1:A:795:ARG:HB3	3:C:35:ARG:NH2	1.65	1.11
2:B:121:LEU:O	2:B:128:PHE:HB2	0.94	1.11
1:D:831:TRP:CZ3	2:E:34:ILE:CG2	2.32	1.11
1:G:649:VAL:O	1:G:649:VAL:HG12	0.94	1.11
1:G:754:ASP:HB2	1:G:776:GLU:HA	1.20	1.11
1:G:818:TYR:CE1	2:H:127:ARG:CZ	2.32	1.11
1:G:838:ILE:CD1	2:H:54:MET:CE	2.27	1.11
2:H:112:ILE:O	2:H:147:ASN:O	1.65	1.11
2:Q:117:LEU:HD12	2:Q:147:ASN:OD1	1.32	1.11
2:Q:121:LEU:CA	2:Q:128:PHE:HB3	1.78	1.11
2:E:112:ILE:O	2:E:147:ASN:O	1.65	1.11
1:G:557:GLU:CA	4:X:48:GLY:N	1.99	1.11
1:A:649:VAL:O	1:A:649:VAL:HG12	0.94	1.11
3:C:48:LYS:C	3:C:52:ASN:ND2	2.03	1.11
1:G:538:GLU:OE2	4:V:355:MET:HE1	1.49	1.11
1:J:97:LEU:HD23	1:J:712:PRO:HB3	1.32	1.11
1:P:730:SER:OG	3:R:89:GLU:OE2	1.67	1.11
4:9:290:ARG:CZ	4:W:202:THR:HG21	1.81	1.11
1:A:795:ARG:NE	3:C:43:ASN:OD1	1.84	1.11
2:B:117:LEU:HB2	2:B:147:ASN:CG	1.70	1.11
1:D:538:GLU:O	4:9:349:LEU:HD11	1.35	1.11
1:D:623:PHE:CB	1:D:623:PHE:CG	2.33	1.11
1:D:819:ASN:ND2	2:E:90:GLY:O	1.84	1.11
3:F:24:LYS:CB	3:F:63:ILE:O	1.99	1.11
1:G:508:ILE:HD11	1:G:759:ALA:CB	1.80	1.11
1:J:218:LEU:HB2	1:J:221:GLN:HG3	1.17	1.11
1:J:641:LYS:CE	1:J:647:GLN:CD	2.18	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:48:LYS:C	3:L:52:ASN:ND2	2.03	1.11
1:P:831:TRP:HH2	2:Q:47:LEU:CD2	1.48	1.11
1:A:218:LEU:HB2	1:A:221:GLN:HG3	1.17	1.11
1:A:623:PHE:CB	1:A:623:PHE:CG	2.33	1.11
1:D:800:ARG:HH22	3:F:40:ASN:ND2	1.38	1.11
2:E:121:LEU:O	2:E:128:PHE:HB2	0.94	1.11
1:G:813:ILE:HG23	2:H:128:PHE:CZ	1.86	1.11
1:G:831:TRP:HE1	2:H:67:MET:HB3	1.05	1.11
2:H:117:LEU:HB2	2:H:147:ASN:CG	1.70	1.11
1:J:756:THR:HG22	1:J:776:GLU:CD	1.70	1.11
1:P:97:LEU:CD2	1:P:712:PRO:CB	2.28	1.11
4:1:202:THR:CA	4:Z:287:ILE:HG12	1.81	1.11
1:D:530:MET:CE	4:9:354:GLN:HG2	1.80	1.10
1:D:641:LYS:CE	1:D:647:GLN:CD	2.18	1.10
1:G:623:PHE:CB	1:G:623:PHE:CG	2.33	1.10
1:P:623:PHE:CG	1:P:623:PHE:CB	2.33	1.10
1:P:641:LYS:CE	1:P:647:GLN:CD	2.18	1.10
1:P:783:LEU:HA	1:P:786:ILE:CG1	1.80	1.10
1:P:820:VAL:HG11	2:Q:136:MET:CE	1.80	1.10
1:P:829:TRP:CZ3	2:Q:84:PHE:CZ	2.39	1.10
1:A:149:GLN:HB2	1:A:718:ALA:HB3	1.14	1.10
1:A:641:LYS:CE	1:A:647:GLN:CD	2.18	1.10
1:D:639:GLY:HA2	4:9:345:ILE:HA	1.26	1.10
1:D:739:ASP:HB3	1:D:742:LYS:HB3	1.21	1.10
1:D:823:PHE:CE1	2:E:160:GLY:HA2	1.86	1.10
1:G:641:LYS:HG3	1:G:647:GLN:HG3	1.21	1.10
2:H:121:LEU:C	2:H:128:PHE:HB2	1.67	1.10
1:J:530:MET:CE	4:W:354:GLN:HG2	1.80	1.10
1:P:530:MET:CE	4:0:354:GLN:HG2	1.80	1.10
1:P:793:ARG:NH2	3:R:147:MET:CE	2.13	1.10
1:A:93:MET:HE1	1:A:715:VAL:HG13	1.13	1.10
2:B:111:SER:CB	2:B:148:VAL:C	1.93	1.10
1:D:218:LEU:HB2	1:D:221:GLN:HG3	1.17	1.10
1:D:721:LYS:HG3	1:D:736:GLN:HG2	1.25	1.10
1:D:734:GLU:O	1:D:738:MET:HG2	1.51	1.10
1:G:641:LYS:CE	1:G:647:GLN:CD	2.18	1.10
1:G:730:SER:OG	3:I:113:THR:HG21	1.50	1.10
1:G:795:ARG:HG2	3:I:118:MET:HE2	1.21	1.10
3:I:24:LYS:CB	3:I:63:ILE:O	1.99	1.10
1:J:641:LYS:HG3	1:J:647:GLN:HG3	1.20	1.10
1:P:201:ALA:O	1:P:202:SER:CB	1.92	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:639:GLY:CA	4:0:345:ILE:HA	1.73	1.10
1:P:803:TYR:CE1	1:P:807:VAL:CG1	2.33	1.10
4:3:322:PRO:HB3	4:5:244:ASP:CG	1.72	1.10
4:7:290:ARG:CZ	4:9:202:THR:HG21	1.81	1.10
1:A:202:SER:CA	1:A:207:LYS:HE2	1.82	1.10
1:D:530:MET:HE2	4:9:354:GLN:CG	1.81	1.10
1:G:202:SER:CA	1:G:207:LYS:HE2	1.82	1.10
1:G:218:LEU:HB2	1:G:221:GLN:HG3	1.17	1.10
1:G:769:ALA:HB3	1:G:770:GLY:CA	1.80	1.10
1:G:832:MET:SD	2:H:84:PHE:HE2	1.73	1.10
3:L:24:LYS:CB	3:L:63:ILE:O	1.99	1.10
1:D:649:VAL:HG22	1:D:649:VAL:HG13	1.21	1.10
1:G:530:MET:CE	4:V:354:GLN:HG2	1.79	1.10
1:G:734:GLU:O	1:G:738:MET:HG2	1.51	1.10
1:J:721:LYS:HG3	1:J:736:GLN:HG2	1.25	1.10
1:P:649:VAL:O	1:P:649:VAL:HG12	0.93	1.10
2:Q:111:SER:CB	2:Q:148:VAL:C	1.93	1.10
4:2:288:ASP:H	4:4:203:THR:HG22	1.17	1.10
1:A:530:MET:CE	4:8:354:GLN:HG2	1.80	1.09
1:A:641:LYS:HE3	1:A:647:GLN:OE1	1.50	1.09
1:A:734:GLU:O	1:A:738:MET:HG2	1.51	1.09
1:D:834:LEU:HD11	2:E:54:MET:HG2	1.09	1.09
1:J:641:LYS:HE3	1:J:647:GLN:OE1	1.50	1.09
1:J:649:VAL:O	1:J:649:VAL:HG12	0.94	1.09
2:K:121:LEU:O	2:K:128:PHE:HB2	0.94	1.09
1:P:641:LYS:HE3	1:P:647:GLN:OE1	1.50	1.09
1:P:795:ARG:HE	3:R:116:GLU:CD	1.55	1.09
2:Q:117:LEU:HB2	2:Q:147:ASN:CG	1.71	1.09
2:Q:121:LEU:O	2:Q:128:PHE:HB2	0.94	1.09
3:R:24:LYS:CB	3:R:63:ILE:O	1.99	1.09
4:8:290:ARG:CZ	4:V:202:THR:HG21	1.81	1.09
1:A:97:LEU:CD2	1:A:712:PRO:CB	2.30	1.09
1:A:97:LEU:HD23	1:A:712:PRO:HB3	1.25	1.09
1:A:502:GLU:HA	1:A:761:GLY:HA3	1.33	1.09
1:A:538:GLU:HA	4:8:349:LEU:CD1	1.54	1.09
1:D:649:VAL:O	1:D:649:VAL:HG12	0.94	1.09
1:D:823:PHE:CE1	2:E:160:GLY:CA	2.34	1.09
1:D:831:TRP:CZ2	2:E:47:LEU:HD22	1.81	1.09
2:E:111:SER:HB3	2:E:148:VAL:O	1.50	1.09
1:G:754:ASP:HB3	1:G:776:GLU:OE2	0.93	1.09
1:G:795:ARG:HA	3:I:118:MET:CE	1.81	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:801:VAL:HG21	3:I:126:LEU:HD23	1.15	1.09
1:J:201:ALA:O	1:J:202:SER:HB3	1.35	1.09
1:J:538:GLU:O	4:W:349:LEU:HD11	1.35	1.09
1:J:571:ALA:O	1:J:572:LYS:HG3	1.52	1.09
1:J:734:GLU:O	1:J:738:MET:HG2	1.51	1.09
1:G:795:ARG:HA	3:I:118:MET:HE1	1.13	1.09
2:H:121:LEU:O	2:H:128:PHE:HB2	0.94	1.09
1:P:84:MLY:CG	1:P:723:ARG:CD	2.30	1.09
1:A:795:ARG:CB	3:C:35:ARG:CZ	2.28	1.09
1:D:571:ALA:O	1:D:572:LYS:HG3	1.52	1.09
1:D:795:ARG:CG	3:F:118:MET:HE1	1.83	1.09
2:E:117:LEU:HB2	2:E:147:ASN:CG	1.71	1.09
1:G:84:MLY:CD	1:G:723:ARG:CD	2.29	1.09
2:H:111:SER:HB3	2:H:148:VAL:O	1.50	1.09
1:J:530:MET:HE2	4:W:354:GLN:CG	1.82	1.09
1:P:94:MET:O	1:P:713:SER:HB3	1.51	1.09
1:P:733:PRO:HB2	3:R:93:VAL:HG11	1.25	1.09
1:P:797:PHE:HE2	3:R:126:LEU:HD13	1.08	1.09
4:2:324:THR:CB	4:4:243:PRO:O	2.01	1.09
1:A:502:GLU:CG	1:A:761:GLY:CA	2.30	1.09
3:C:24:LYS:CB	3:C:63:ILE:O	1.99	1.09
1:D:641:LYS:HE3	1:D:647:GLN:OE1	1.50	1.09
1:D:797:PHE:HE1	3:F:146:ILE:HA	0.96	1.09
1:G:538:GLU:HA	4:V:349:LEU:CD1	1.55	1.09
1:P:571:ALA:O	1:P:572:LYS:HG3	1.52	1.09
1:P:649:VAL:HG22	1:P:649:VAL:HG13	1.21	1.09
1:P:734:GLU:O	1:P:738:MET:HG2	1.51	1.09
4:0:287:ILE:CG2	4:2:203:THR:CG2	2.21	1.09
4:2:290:ARG:CZ	4:4:202:THR:CG2	2.20	1.09
1:A:739:ASP:HB3	1:A:742:LYS:HB3	1.21	1.08
2:B:121:LEU:C	2:B:128:PHE:HB2	1.67	1.08
1:D:202:SER:CA	1:D:207:LYS:HE2	1.82	1.08
1:D:838:ILE:HD13	2:E:54:MET:CE	1.82	1.08
1:G:553:MLY:HE2	4:X:45:VAL:HB	1.09	1.08
1:J:95:THR:HA	1:J:713:SER:OG	1.50	1.08
1:J:643:GLY:O	1:J:644:SER:OG	1.69	1.08
2:K:117:LEU:HB2	2:K:147:ASN:CG	1.70	1.08
2:K:121:LEU:C	2:K:128:PHE:HB3	1.71	1.08
1:P:202:SER:CA	1:P:207:LYS:HE2	1.82	1.08
1:P:721:LYS:HA	1:P:736:GLN:CD	1.73	1.08
1:P:831:TRP:HZ3	2:Q:34:ILE:HD13	1.14	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:791:GLN:NE2	3:C:116:GLU:N	1.97	1.08
1:D:767:PHE:C	1:D:771:LEU:HD11	1.67	1.08
1:D:797:PHE:CE1	3:F:146:ILE:HG23	1.87	1.08
1:G:755:HIS:N	1:G:779:ARG:CZ	2.14	1.08
1:J:649:VAL:HG22	1:J:649:VAL:HG13	1.21	1.08
2:B:111:SER:OG	2:B:148:VAL:O	1.71	1.08
1:D:769:ALA:O	1:D:774:LEU:HD13	0.91	1.08
1:D:838:ILE:CD1	2:E:54:MET:HE3	1.80	1.08
1:G:721:LYS:HG3	1:G:736:GLN:HG2	1.25	1.08
1:G:757:GLN:CG	1:G:776:GLU:OE2	2.01	1.08
1:J:202:SER:CA	1:J:207:LYS:HE2	1.82	1.08
1:J:639:GLY:CA	4:W:345:ILE:HA	1.73	1.08
1:J:754:ASP:CB	1:J:780:ASP:OD2	2.01	1.08
1:J:796:GLY:HA2	3:L:35:ARG:CD	1.82	1.08
1:J:838:ILE:CD1	2:K:54:MET:CE	2.30	1.08
2:K:111:SER:OG	2:K:148:VAL:O	1.71	1.08
4:1:287:ILE:HD13	4:3:203:THR:HB	1.10	1.08
1:A:736:GLN:HA	1:A:743:ALA:HB3	1.35	1.08
1:G:553:MLY:CE	4:X:45:VAL:HG12	1.68	1.08
2:H:111:SER:OG	2:H:148:VAL:O	1.71	1.08
1:P:84:MLY:CG	1:P:723:ARG:HD2	1.82	1.08
1:P:638:GLY:CA	4:0:341:ILE:O	2.01	1.08
1:P:641:LYS:HG3	1:P:647:GLN:HG3	1.21	1.08
2:Q:111:SER:CB	2:Q:148:VAL:O	0.78	1.08
1:A:721:LYS:HA	1:A:736:GLN:CD	1.73	1.08
1:D:643:GLY:O	1:D:644:SER:OG	1.70	1.08
1:D:721:LYS:HA	1:D:736:GLN:CD	1.73	1.08
1:G:148:ARG:NH2	1:G:764:MLY:HH21	1.69	1.08
1:G:643:GLY:O	1:G:644:SER:OG	1.69	1.08
1:J:567:LYS:NZ	4:Y:92:ASN:HD22	1.50	1.08
1:P:548:THR:HG23	4:2:49:GLN:HB2	1.20	1.08
2:Q:111:SER:HB3	2:Q:148:VAL:O	1.50	1.08
4:3:3:ASP:HA	4:3:6:THR:HB	1.36	1.08
4:8:287:ILE:HG21	4:V:205:GLU:HG2	1.17	1.08
1:D:638:GLY:CA	4:9:341:ILE:O	2.01	1.07
1:D:795:ARG:CZ	3:F:116:GLU:OE2	2.00	1.07
1:G:641:LYS:CG	1:G:647:GLN:CG	2.16	1.07
1:G:721:LYS:HA	1:G:736:GLN:CD	1.73	1.07
1:G:769:ALA:HB1	1:G:770:GLY:HA2	1.36	1.07
1:P:817:GLN:CG	2:Q:127:ARG:HD2	1.85	1.07
1:A:641:LYS:HB2	1:A:647:GLN:NE2	1.68	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:111:SER:CB	2:B:148:VAL:O	0.78	1.07
1:D:529:PRO:HB3	4:9:353:GLN:OE1	1.53	1.07
1:D:822:SER:OG	2:E:88:LEU:HD23	0.89	1.07
2:E:111:SER:CB	2:E:148:VAL:O	0.78	1.07
2:E:111:SER:OG	2:E:148:VAL:O	1.71	1.07
1:G:84:MLY:HD3	1:G:723:ARG:CD	1.84	1.07
1:G:530:MET:HE2	4:V:354:GLN:HG2	1.29	1.07
1:G:635:GLY:HA2	4:V:334:GLU:HG2	1.16	1.07
1:G:641:LYS:HB2	1:G:647:GLN:NE2	1.68	1.07
2:H:111:SER:CB	2:H:148:VAL:O	0.78	1.07
1:J:529:PRO:HB3	4:W:353:GLN:OE1	1.53	1.07
1:P:538:GLU:O	4:0:349:LEU:HD11	1.35	1.07
1:P:639:GLY:HA2	4:0:345:ILE:HA	1.26	1.07
1:A:409:GLY:N	1:A:636:LYS:HG3	1.69	1.07
1:A:529:PRO:HB3	4:8:353:GLN:OE1	1.53	1.07
1:A:635:GLY:HA2	4:8:334:GLU:HG2	1.15	1.07
1:A:639:GLY:HA2	4:8:345:ILE:HA	1.26	1.07
1:A:798:LEU:CD1	3:C:126:LEU:HD21	1.82	1.07
1:D:409:GLY:N	1:D:636:LYS:HG3	1.69	1.07
1:G:529:PRO:HB3	4:V:353:GLN:OE1	1.53	1.07
1:G:795:ARG:HH21	3:I:116:GLU:HG2	0.98	1.07
1:J:638:GLY:CA	4:W:341:ILE:O	2.01	1.07
2:K:111:SER:CB	2:K:148:VAL:O	0.78	1.07
1:P:97:LEU:HD23	1:P:712:PRO:CB	1.83	1.07
1:A:795:ARG:HD3	3:C:43:ASN:OD1	1.47	1.07
1:D:541:MET:SD	4:9:345:ILE:O	2.12	1.07
1:D:724:TYR:HA	1:D:782:MLY:HD2	1.33	1.07
1:G:72:VAL:HG13	1:G:76:GLN:HB3	1.36	1.07
1:G:409:GLY:N	1:G:636:LYS:HG3	1.69	1.07
1:G:641:LYS:HE3	1:G:647:GLN:OE1	1.50	1.07
1:J:409:GLY:N	1:J:636:LYS:HG3	1.69	1.07
1:J:541:MET:SD	4:W:345:ILE:O	2.13	1.07
1:J:639:GLY:HA2	4:W:345:ILE:HA	1.26	1.07
1:P:641:LYS:HB2	1:P:647:GLN:NE2	1.68	1.07
1:P:803:TYR:O	1:P:807:VAL:HB	0.89	1.07
4:1:203:THR:HB	4:Z:287:ILE:HD13	1.09	1.07
1:A:638:GLY:CA	4:8:341:ILE:O	2.01	1.07
1:G:638:GLY:CA	4:V:341:ILE:O	2.02	1.07
1:G:736:GLN:N	1:G:743:ALA:CB	2.04	1.07
1:G:795:ARG:CG	3:I:118:MET:HE1	1.84	1.07
1:P:643:GLY:O	1:P:644:SER:OG	1.69	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:1:287:ILE:HB	4:3:203:THR:HG22	1.32	1.07
4:X:3:ASP:HA	4:X:6:THR:HB	1.36	1.07
4:X:324:THR:CG2	4:Z:247:VAL:HG22	1.83	1.07
1:A:541:MET:SD	4:8:345:ILE:O	2.12	1.06
1:D:831:TRP:CZ2	2:E:47:LEU:HA	1.89	1.06
2:E:111:SER:CB	2:E:148:VAL:C	1.93	1.06
1:G:757:GLN:OE1	1:G:772:LEU:O	1.73	1.06
1:P:72:VAL:HG13	1:P:76:GLN:HB3	1.36	1.06
4:2:290:ARG:NH2	4:4:202:THR:HG23	1.41	1.06
4:5:3:ASP:HA	4:5:6:THR:HB	1.36	1.06
1:A:85:TYR:OH	1:A:772:LEU:HD23	0.89	1.06
2:B:111:SER:HB3	2:B:148:VAL:O	1.49	1.06
1:G:541:MET:SD	4:V:345:ILE:O	2.13	1.06
1:G:553:MLY:HH13	4:X:45:VAL:HG11	1.37	1.06
1:P:529:PRO:HB3	4:0:353:GLN:OE1	1.53	1.06
1:P:783:LEU:CA	1:P:786:ILE:HG13	1.84	1.06
1:A:571:ALA:O	1:A:572:LYS:HG3	1.52	1.06
1:A:643:GLY:O	1:A:644:SER:OG	1.70	1.06
1:D:542:PHE:CG	4:9:143:TYR:HE1	1.73	1.06
1:D:767:PHE:O	1:D:771:LEU:HD11	1.55	1.06
1:D:831:TRP:CE2	2:E:47:LEU:HD22	1.89	1.06
1:J:721:LYS:HA	1:J:736:GLN:CD	1.73	1.06
1:A:72:VAL:HG13	1:A:76:GLN:HB3	1.36	1.06
1:D:641:LYS:HE3	4:9:348:SER:O	1.55	1.06
1:G:556:ASP:OD1	4:X:47:MET:HE3	1.55	1.06
1:J:768:MLY:CH1	1:J:772:LEU:HD12	1.82	1.06
1:D:641:LYS:HB2	1:D:647:GLN:NE2	1.68	1.06
1:G:557:GLU:HB3	4:X:46:GLY:C	1.76	1.06
1:G:635:GLY:HA3	4:V:341:ILE:HD13	1.37	1.06
1:P:838:ILE:HD11	2:Q:54:MET:HE3	1.20	1.06
4:X:287:ILE:HG12	4:Z:201:VAL:N	1.69	1.06
1:A:530:MET:CA	4:8:354:GLN:HG3	1.86	1.05
2:B:114:LYS:HA	2:B:146:GLY:O	0.89	1.05
2:B:121:LEU:HG	2:B:128:PHE:CA	1.60	1.05
1:G:571:ALA:O	1:G:572:LYS:HG3	1.52	1.05
1:G:769:ALA:HB3	1:G:770:GLY:HA2	1.32	1.05
1:J:791:GLN:CD	3:L:116:GLU:HG3	1.75	1.05
1:P:541:MET:SD	4:0:345:ILE:O	2.13	1.05
4:0:288:ASP:CB	4:2:63:GLY:CA	2.31	1.05
4:1:3:ASP:HA	4:1:6:THR:HB	1.36	1.05
4:1:287:ILE:CG2	4:3:202:THR:OG1	2.03	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:2:322:PRO:HB3	4:4:244:ASP:CG	1.75	1.05
4:2:322:PRO:HB2	4:4:244:ASP:CB	1.85	1.05
1:D:576:GLU:HG2	1:D:577:ALA:N	1.66	1.05
1:D:795:ARG:HG2	3:F:118:MET:CE	1.86	1.05
1:J:94:MET:O	1:J:713:SER:HB3	0.87	1.05
1:J:530:MET:CA	4:W:354:GLN:HG3	1.87	1.05
2:K:114:LYS:HA	2:K:146:GLY:O	0.89	1.05
2:K:140:PHE:O	2:K:141:PRO:O	1.75	1.05
1:P:409:GLY:N	1:P:636:LYS:HG3	1.69	1.05
4:0:244:ASP:N	4:Y:291:LYS:HE3	1.41	1.05
1:A:502:GLU:HG3	1:A:761:GLY:CA	1.86	1.05
1:A:542:PHE:CG	4:8:143:TYR:HE1	1.73	1.05
1:A:798:LEU:HD11	3:C:126:LEU:CD1	1.87	1.05
2:B:144:VAL:HG11	2:B:153:ILE:HG12	1.38	1.05
2:E:114:LYS:HA	2:E:146:GLY:O	0.89	1.05
2:E:163:ALA:HA	2:K:21:GLU:HB3	1.38	1.05
1:G:707:CYS:SG	1:G:714:ARG:CZ	2.44	1.05
1:G:752:ASP:O	1:G:780:ASP:OD1	1.73	1.05
1:J:72:VAL:HG13	1:J:76:GLN:HB3	1.36	1.05
1:J:641:LYS:HB2	1:J:647:GLN:NE2	1.68	1.05
1:J:817:GLN:CG	2:K:127:ARG:CD	2.33	1.05
1:J:817:GLN:CB	2:K:127:ARG:CD	2.32	1.05
1:P:530:MET:CA	4:0:354:GLN:HG3	1.87	1.05
1:P:804:ARG:CG	1:P:808:GLU:OE2	2.03	1.05
1:P:817:GLN:OE1	2:Q:127:ARG:HD2	1.55	1.05
4:2:324:THR:CG2	4:4:244:ASP:O	1.97	1.05
4:W:325:MET:CE	4:Y:244:ASP:OD2	2.04	1.05
1:A:93:MET:HE1	1:A:715:VAL:CG1	1.87	1.05
1:A:149:GLN:HE21	1:A:718:ALA:CB	1.61	1.05
1:A:635:GLY:HA3	4:8:341:ILE:HD13	1.37	1.05
1:A:754:ASP:OD2	1:A:778:MET:CE	2.05	1.05
1:A:834:LEU:HD21	2:B:54:MET:HE2	1.39	1.05
1:D:72:VAL:HG13	1:D:76:GLN:HB3	1.36	1.05
1:D:831:TRP:HZ2	2:E:47:LEU:CB	1.69	1.05
2:H:114:LYS:HA	2:H:146:GLY:O	0.88	1.05
1:J:638:GLY:HA2	4:W:341:ILE:O	1.57	1.05
1:P:542:PHE:CG	4:0:143:TYR:HE1	1.73	1.05
1:P:783:LEU:CG	1:P:786:ILE:CD1	2.34	1.05
1:P:834:LEU:HD13	2:Q:51:PHE:CE1	1.92	1.05
1:A:641:LYS:HD2	1:A:647:GLN:CD	1.70	1.05
1:A:823:PHE:CE1	2:B:160:GLY:HA2	1.92	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:140:PHE:O	2:E:141:PRO:O	1.74	1.05
1:G:542:PHE:CG	4:V:143:TYR:HE1	1.74	1.05
1:J:641:LYS:HE3	1:J:647:GLN:CD	1.77	1.05
1:J:641:LYS:HE3	4:W:348:SER:O	1.55	1.05
2:Q:114:LYS:HA	2:Q:146:GLY:O	0.89	1.05
1:A:149:GLN:CB	1:A:718:ALA:HB3	1.86	1.04
1:D:814:PHE:CA	2:E:127:ARG:NH1	2.17	1.04
1:J:756:THR:CG2	1:J:776:GLU:HA	1.87	1.04
1:J:834:LEU:CD1	2:K:51:PHE:HE1	1.69	1.04
1:P:641:LYS:HE3	1:P:647:GLN:CD	1.77	1.04
1:P:804:ARG:O	1:P:808:GLU:HB2	1.55	1.04
2:Q:121:LEU:C	2:Q:128:PHE:HB3	1.72	1.04
2:Q:140:PHE:O	2:Q:141:PRO:O	1.75	1.04
1:A:795:ARG:HH21	3:C:116:GLU:CB	1.70	1.04
1:A:837:MLY:HH21	2:H:20:ASP:HA	1.39	1.04
2:E:121:LEU:C	2:E:128:PHE:HB3	1.72	1.04
1:G:553:MLY:CE	4:X:45:VAL:HG11	1.53	1.04
1:G:736:GLN:HA	1:G:743:ALA:HB3	1.35	1.04
1:J:505:MLY:HD2	1:J:762:HIS:ND1	1.71	1.04
1:J:542:PHE:CG	4:W:143:TYR:HE1	1.73	1.04
1:P:801:VAL:CG2	3:R:126:LEU:HD21	1.87	1.04
3:R:49:ILE:CA	3:R:52:ASN:HD22	1.71	1.04
1:A:641:LYS:HE3	1:A:647:GLN:CD	1.77	1.04
1:D:530:MET:CA	4:9:354:GLN:HG3	1.87	1.04
1:D:638:GLY:HA2	4:9:341:ILE:O	1.57	1.04
1:G:641:LYS:HE3	1:G:647:GLN:CD	1.77	1.04
2:H:144:VAL:HG13	2:H:153:ILE:HD11	1.21	1.04
2:K:144:VAL:HG11	2:K:153:ILE:HG12	1.37	1.04
1:P:56:GLU:HB2	1:P:59:MLY:HB3	1.40	1.04
1:P:503:TYR:CE1	1:P:711:PHE:CD2	2.44	1.04
1:A:599:ASN:HA	1:A:649:VAL:HB	1.05	1.04
2:B:121:LEU:C	2:B:128:PHE:HB3	1.72	1.04
1:G:557:GLU:CB	4:X:46:GLY:C	2.26	1.04
1:G:819:ASN:HA	2:H:90:GLY:O	0.86	1.04
2:K:111:SER:CB	2:K:148:VAL:C	1.92	1.04
1:P:508:ILE:CD1	1:P:759:ALA:HB2	1.86	1.04
1:P:641:LYS:HE3	4:0:348:SER:O	1.55	1.04
4:0:244:ASP:N	4:Y:291:LYS:NZ	2.05	1.04
4:8:3:ASP:HA	4:8:6:THR:HB	1.36	1.04
4:Z:3:ASP:HA	4:Z:6:THR:HB	1.36	1.04
1:A:95:THR:OG1	1:A:769:ALA:HA	1.55	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:797:PHE:HE2	3:C:126:LEU:HD22	1.19	1.04
1:D:202:SER:CA	1:D:207:LYS:CE	2.36	1.04
1:D:506:GLU:HG3	1:D:764:MLY:HE3	1.38	1.04
1:G:552:ASN:O	4:X:47:MET:CE	2.04	1.04
1:G:829:TRP:CZ3	2:H:84:PHE:CE1	2.46	1.04
3:I:49:ILE:CA	3:I:52:ASN:HD22	1.70	1.04
1:J:576:GLU:HG2	1:J:577:ALA:N	1.66	1.04
1:J:831:TRP:HE1	2:K:67:MET:HB3	1.23	1.04
1:P:84:MLY:HG2	1:P:723:ARG:HD2	1.07	1.04
4:0:110:LEU:O	4:1:195:GLU:HA	1.55	1.04
1:A:529:PRO:C	4:8:354:GLN:HB3	1.78	1.03
1:A:813:ILE:CG2	2:B:127:ARG:CD	2.29	1.03
2:E:149:ASP:OD2	2:E:150:TYR:N	1.91	1.03
1:G:639:GLY:N	4:V:345:ILE:N	1.94	1.03
1:G:769:ALA:CB	1:G:770:GLY:N	2.21	1.03
1:G:830:PRO:HB3	2:H:67:MET:HE1	1.31	1.03
1:J:736:GLN:HA	1:J:743:ALA:HB3	1.35	1.03
1:J:819:ASN:CA	2:K:90:GLY:O	2.04	1.03
1:P:505:MLY:HE3	1:P:762:HIS:NE2	1.66	1.03
1:P:529:PRO:C	4:0:354:GLN:HB3	1.77	1.03
1:A:795:ARG:NH2	3:C:116:GLU:CG	2.22	1.03
3:C:49:ILE:CA	3:C:52:ASN:HD22	1.70	1.03
1:D:553:MLY:CB	4:W:46:GLY:CA	2.32	1.03
1:D:641:LYS:HE3	1:D:647:GLN:CD	1.77	1.03
1:D:736:GLN:HA	1:D:743:ALA:HB3	1.35	1.03
1:D:747:LEU:HD11	1:D:782:MLY:HH21	1.39	1.03
1:G:56:GLU:HB2	1:G:59:MLY:HB3	1.40	1.03
1:G:639:GLY:HA3	4:V:344:SER:C	1.78	1.03
2:H:140:PHE:O	2:H:141:PRO:O	1.75	1.03
1:J:56:GLU:HB2	1:J:59:MLY:HB3	1.40	1.03
1:J:756:THR:HG21	1:J:776:GLU:CA	1.83	1.03
1:J:831:TRP:HH2	2:K:47:LEU:HD21	1.03	1.03
1:P:736:GLN:HA	1:P:743:ALA:HB3	1.35	1.03
2:Q:111:SER:OG	2:Q:148:VAL:O	1.71	1.03
4:0:201:VAL:H	4:Y:287:ILE:CG1	1.53	1.03
4:7:3:ASP:HA	4:7:6:THR:HB	1.36	1.03
1:A:639:GLY:HA3	4:8:344:SER:C	1.78	1.03
1:A:641:LYS:HG3	1:A:647:GLN:HG3	1.21	1.03
1:A:800:ARG:NH2	3:C:40:ASN:OD1	1.91	1.03
1:A:831:TRP:CH2	2:B:50:THR:HG21	1.87	1.03
1:D:732:ILE:HG21	1:D:782:MLY:HH21	1.39	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:503:TYR:OH	1:G:711:PHE:CD2	1.83	1.03
1:G:599:ASN:HA	1:G:649:VAL:HB	1.05	1.03
1:G:826:VAL:HG21	2:H:88:LEU:HD21	1.41	1.03
3:I:49:ILE:HA	3:I:52:ASN:HD22	1.23	1.03
1:J:202:SER:CA	1:J:207:LYS:CE	2.36	1.03
2:K:149:ASP:OD2	2:K:150:TYR:N	1.91	1.03
3:R:49:ILE:HA	3:R:52:ASN:HD22	1.23	1.03
4:1:288:ASP:OD2	4:3:203:THR:CG2	2.06	1.03
1:A:202:SER:CA	1:A:207:LYS:CE	2.36	1.03
1:A:642:LYS:HG3	4:8:23:GLY:H	0.86	1.03
1:A:709:LYS:O	1:A:710:GLY:CA	2.06	1.03
1:D:800:ARG:NH2	3:F:40:ASN:OD1	1.88	1.03
1:G:530:MET:HE2	4:V:354:GLN:CG	1.89	1.03
1:G:530:MET:CA	4:V:354:GLN:HG3	1.87	1.03
1:G:641:LYS:HE3	4:V:348:SER:O	1.56	1.03
1:J:817:GLN:HB3	2:K:127:ARG:HD3	1.36	1.03
1:P:793:ARG:CZ	3:R:87:PHE:CE1	2.41	1.03
4:1:203:THR:HG22	4:Z:287:ILE:CB	1.87	1.03
1:A:646:PHE:HE2	1:A:652:LEU:HD21	1.24	1.03
1:A:795:ARG:HH21	3:C:116:GLU:HB3	1.21	1.03
2:B:140:PHE:O	2:B:141:PRO:O	1.74	1.03
1:D:557:GLU:N	4:W:48:GLY:CA	2.12	1.03
3:F:49:ILE:HA	3:F:52:ASN:HD22	1.22	1.03
3:F:49:ILE:CA	3:F:52:ASN:HD22	1.70	1.03
1:G:641:LYS:HD2	1:G:647:GLN:CD	1.70	1.03
2:H:149:ASP:OD2	2:H:150:TYR:N	1.91	1.03
3:L:49:ILE:CA	3:L:52:ASN:HD22	1.71	1.03
1:P:202:SER:CA	1:P:207:LYS:CE	2.36	1.03
1:P:642:LYS:HG3	4:0:23:GLY:H	0.86	1.03
2:Q:149:ASP:OD2	2:Q:150:TYR:N	1.91	1.03
4:V:3:ASP:HA	4:V:6:THR:HB	1.36	1.03
1:A:93:MET:HG2	1:A:715:VAL:HG22	1.41	1.02
1:A:541:MET:HB3	4:8:143:TYR:OH	1.60	1.02
1:A:638:GLY:HA2	4:8:341:ILE:O	1.56	1.02
1:A:768:MLY:HG2	1:A:771:LEU:HD13	1.41	1.02
1:A:795:ARG:HD2	3:C:35:ARG:NH1	1.73	1.02
1:A:819:ASN:CG	2:B:91:ALA:CA	2.18	1.02
1:G:503:TYR:CZ	1:G:711:PHE:CD2	2.46	1.02
2:H:150:TYR:O	2:H:151:LYS:CB	2.06	1.02
1:J:541:MET:HB3	4:W:143:TYR:OH	1.59	1.02
1:J:820:VAL:HG11	2:K:136:MET:HE3	1.03	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:834:LEU:CD1	2:K:51:PHE:CE1	2.41	1.02
1:P:792:ALA:HA	3:R:42:THR:HG22	1.37	1.02
4:8:290:ARG:CZ	4:V:202:THR:CG2	2.36	1.02
1:A:798:LEU:HD11	3:C:126:LEU:HD11	1.40	1.02
1:A:800:ARG:NH2	3:C:40:ASN:ND2	1.98	1.02
3:C:24:LYS:HG2	3:C:63:ILE:O	1.59	1.02
2:E:144:VAL:HG11	2:E:153:ILE:HG12	1.38	1.02
1:G:642:LYS:HG3	4:V:23:GLY:H	0.85	1.02
2:H:144:VAL:HG11	2:H:153:ILE:HG12	1.38	1.02
1:J:797:PHE:CE1	3:L:146:ILE:CD1	2.41	1.02
1:P:541:MET:HB3	4:0:143:TYR:OH	1.59	1.02
1:P:576:GLU:HG2	1:P:577:ALA:N	1.66	1.02
1:P:599:ASN:CA	1:P:649:VAL:HB	1.89	1.02
1:P:635:GLY:HA3	4:0:341:ILE:HD13	1.36	1.02
1:P:725:ARG:NH2	3:R:93:VAL:HG12	1.65	1.02
4:2:3:ASP:HA	4:2:6:THR:HB	1.36	1.02
1:A:502:GLU:HA	1:A:761:GLY:CA	1.89	1.02
1:G:529:PRO:C	4:V:354:GLN:HB3	1.79	1.02
1:G:638:GLY:HA2	4:V:341:ILE:O	1.58	1.02
1:J:599:ASN:CA	1:J:649:VAL:HB	1.89	1.02
1:J:797:PHE:CD1	3:L:146:ILE:CG2	2.36	1.02
3:L:24:LYS:CG	3:L:63:ILE:O	2.08	1.02
1:P:831:TRP:CZ2	2:Q:47:LEU:HD21	1.90	1.02
4:0:204:ALA:HB3	4:Y:288:ASP:HB2	1.36	1.02
4:7:290:ARG:CZ	4:9:202:THR:CG2	2.36	1.02
4:9:290:ARG:CZ	4:W:202:THR:CG2	2.36	1.02
1:A:641:LYS:HE3	4:8:348:SER:O	1.56	1.02
1:D:642:LYS:HG3	4:9:23:GLY:H	0.86	1.02
1:D:831:TRP:CH2	2:E:47:LEU:HD23	1.95	1.02
1:G:503:TYR:CE1	1:G:711:PHE:CD2	2.47	1.02
1:G:795:ARG:CG	3:I:118:MET:CE	2.37	1.02
1:J:635:GLY:HA3	4:W:341:ILE:HD13	1.36	1.02
1:J:639:GLY:HA3	4:W:344:SER:C	1.78	1.02
1:J:817:GLN:HG2	2:K:127:ARG:HB2	1.06	1.02
1:P:599:ASN:HA	1:P:649:VAL:HB	1.05	1.02
3:R:24:LYS:HG2	3:R:63:ILE:O	1.59	1.02
4:4:3:ASP:HA	4:4:6:THR:HB	1.36	1.02
4:W:3:ASP:HA	4:W:6:THR:HB	1.36	1.02
1:A:798:LEU:CD1	3:C:126:LEU:HD11	1.89	1.02
2:B:149:ASP:OD2	2:B:150:TYR:N	1.91	1.02
2:B:150:TYR:O	2:B:151:LYS:CB	2.07	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:635:GLY:HA3	4:9:341:ILE:HD13	1.37	1.02
1:D:639:GLY:HA3	4:9:344:SER:C	1.78	1.02
1:G:94:MET:O	1:G:713:SER:CB	2.06	1.02
1:G:769:ALA:O	1:G:773:GLY:CA	2.07	1.02
1:J:98:HIS:HB3	1:J:100:PRO:HD2	1.42	1.02
1:J:834:LEU:HD13	2:K:51:PHE:CE1	1.95	1.02
2:K:144:VAL:HG13	2:K:153:ILE:HD11	1.21	1.02
1:P:639:GLY:HA3	4:0:344:SER:C	1.77	1.02
1:P:831:TRP:CZ3	2:Q:34:ILE:HD13	1.93	1.02
4:0:3:ASP:HA	4:0:6:THR:HB	1.36	1.02
4:1:203:THR:N	4:Z:287:ILE:CB	2.13	1.02
4:1:322:PRO:HB3	4:3:244:ASP:CB	1.90	1.02
4:V:325:MET:HE2	4:X:244:ASP:OD2	1.59	1.02
4:W:291:LYS:HD2	4:Y:243:PRO:HB2	1.41	1.02
4:Y:3:ASP:HA	4:Y:6:THR:HB	1.36	1.02
1:A:642:LYS:HD3	4:8:340:TRP:CZ3	1.95	1.01
1:A:707:CYS:HA	1:A:714:ARG:NH1	1.75	1.01
1:D:599:ASN:CA	1:D:649:VAL:HB	1.89	1.01
3:F:24:LYS:HG2	3:F:63:ILE:O	1.59	1.01
1:G:202:SER:CA	1:G:207:LYS:CE	2.36	1.01
1:J:756:THR:HG22	1:J:776:GLU:CA	1.87	1.01
1:J:813:ILE:HG23	2:K:128:PHE:CE1	1.93	1.01
3:L:49:ILE:HA	3:L:52:ASN:HD22	1.23	1.01
1:P:638:GLY:HA2	4:0:341:ILE:O	1.57	1.01
1:P:641:LYS:CG	4:0:348:SER:HB2	1.87	1.01
1:P:817:GLN:HG2	2:Q:127:ARG:CB	1.89	1.01
1:P:821:ARG:NH2	2:Q:127:ARG:CG	2.23	1.01
2:Q:121:LEU:HG	2:Q:128:PHE:CA	1.60	1.01
4:7:290:ARG:NH2	4:9:202:THR:CG2	2.23	1.01
4:9:290:ARG:NH2	4:W:202:THR:CG2	2.23	1.01
1:A:642:LYS:HD3	4:8:340:TRP:CH2	1.95	1.01
3:C:24:LYS:CG	3:C:63:ILE:O	2.08	1.01
1:D:831:TRP:HH2	2:E:47:LEU:HA	1.23	1.01
2:E:150:TYR:O	2:E:151:LYS:CB	2.06	1.01
3:F:24:LYS:CG	3:F:63:ILE:O	2.08	1.01
2:H:121:LEU:HG	2:H:128:PHE:CA	1.60	1.01
3:L:24:LYS:HG2	3:L:63:ILE:O	1.59	1.01
1:P:795:ARG:CA	3:R:35:ARG:NH1	2.23	1.01
1:P:803:TYR:C	1:P:807:VAL:HB	1.81	1.01
4:3:288:ASP:CG	4:5:203:THR:HG21	1.64	1.01
4:X:324:THR:HG22	4:Z:247:VAL:HG23	1.37	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:553:MLY:HG2	4:W:44:MET:O	1.59	1.01
1:G:821:ARG:HH22	2:H:127:ARG:CG	1.72	1.01
1:J:599:ASN:HA	1:J:649:VAL:HB	1.05	1.01
1:J:831:TRP:HH2	2:K:47:LEU:CD2	1.61	1.01
1:P:646:PHE:HE2	1:P:652:LEU:HD21	1.24	1.01
3:R:24:LYS:CG	3:R:63:ILE:O	2.08	1.01
4:9:287:ILE:HB	4:W:204:ALA:H	1.25	1.01
1:A:599:ASN:CA	1:A:649:VAL:HB	1.89	1.01
1:A:639:GLY:N	4:8:345:ILE:N	1.94	1.01
3:C:48:LYS:O	3:C:52:ASN:ND2	1.94	1.01
3:C:49:ILE:HA	3:C:52:ASN:HD22	1.22	1.01
1:D:541:MET:HB3	4:9:143:TYR:OH	1.60	1.01
1:G:84:MLY:HD3	1:G:723:ARG:HD3	1.41	1.01
1:G:576:GLU:HG2	1:G:577:ALA:H	0.85	1.01
1:G:641:LYS:HE3	1:G:647:GLN:HB2	1.42	1.01
1:G:829:TRP:HZ3	2:H:84:PHE:CZ	1.79	1.01
1:J:641:LYS:HE3	1:J:647:GLN:HB2	1.42	1.01
3:L:48:LYS:O	3:L:52:ASN:ND2	1.94	1.01
1:P:641:LYS:HE3	1:P:647:GLN:HB2	1.42	1.01
2:Q:144:VAL:HG11	2:Q:153:ILE:HG12	1.38	1.01
1:A:206:LYS:HD2	1:A:217:THR:HG23	1.41	1.01
1:A:534:SER:O	4:8:351:THR:HA	1.60	1.01
1:A:813:ILE:HG21	2:B:127:ARG:HD2	1.43	1.01
1:D:206:LYS:HD2	1:D:217:THR:HG23	1.40	1.01
1:G:599:ASN:CA	1:G:649:VAL:HB	1.89	1.01
1:G:646:PHE:HE2	1:G:652:LEU:HD21	1.24	1.01
1:P:793:ARG:HH21	3:R:147:MET:CE	1.71	1.01
1:P:836:PHE:CE1	2:Q:159:HIS:CA	2.44	1.01
4:0:166:TYR:CZ	4:2:64:ILE:CG2	2.44	1.01
4:8:290:ARG:NH2	4:V:202:THR:CG2	2.23	1.01
1:A:28:GLN:HE22	1:A:723:ARG:HH21	1.05	1.00
1:G:796:GLY:HA2	3:I:35:ARG:CD	1.91	1.00
1:J:642:LYS:HG3	4:W:23:GLY:H	0.86	1.00
1:J:646:PHE:HE2	1:J:652:LEU:HD21	1.24	1.00
1:P:98:HIS:HB3	1:P:100:PRO:HD2	1.42	1.00
1:P:505:MLY:CD	1:P:762:HIS:HE2	1.69	1.00
2:Q:150:TYR:O	2:Q:151:LYS:CB	2.06	1.00
1:A:709:LYS:O	1:A:710:GLY:HA3	1.56	1.00
2:B:121:LEU:CB	2:B:128:PHE:HB3	1.69	1.00
1:G:508:ILE:CD1	1:G:759:ALA:HB2	1.92	1.00
1:G:534:SER:O	4:V:351:THR:HA	1.60	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:534:SER:C	4:W:351:THR:HA	1.81	1.00
1:J:793:ARG:NH1	3:L:40:ASN:HD22	1.57	1.00
1:P:642:LYS:HD3	4:0:340:TRP:CZ3	1.96	1.00
1:P:826:VAL:HG21	2:Q:88:LEU:HD21	1.43	1.00
2:Q:121:LEU:CB	2:Q:128:PHE:HB3	1.69	1.00
4:1:203:THR:HG22	4:Z:287:ILE:HB	1.00	1.00
1:A:641:LYS:HE3	1:A:647:GLN:HB2	1.42	1.00
1:A:753:VAL:HG12	1:A:775:LEU:CD2	1.92	1.00
1:D:641:LYS:HE3	1:D:647:GLN:HB2	1.43	1.00
1:D:642:LYS:HD3	4:9:340:TRP:CZ3	1.96	1.00
1:G:215:GLN:CA	1:G:340:ILE:HG23	1.92	1.00
1:G:534:SER:C	4:V:351:THR:HA	1.82	1.00
1:G:541:MET:HB3	4:V:143:TYR:OH	1.59	1.00
1:G:576:GLU:CG	1:G:577:ALA:H	1.74	1.00
1:G:642:LYS:HD3	4:V:340:TRP:CH2	1.96	1.00
1:G:642:LYS:HD3	4:V:340:TRP:CZ3	1.96	1.00
1:G:792:ALA:HB2	3:I:42:THR:CA	1.91	1.00
1:G:795:ARG:CB	3:I:118:MET:HE1	1.90	1.00
3:I:24:LYS:CG	3:I:63:ILE:O	2.08	1.00
1:J:642:LYS:HD3	4:W:340:TRP:CH2	1.96	1.00
1:J:795:ARG:NE	3:L:116:GLU:OE2	1.95	1.00
1:J:813:ILE:CG2	2:K:128:PHE:CE1	2.44	1.00
1:P:642:LYS:HD3	4:0:340:TRP:CH2	1.95	1.00
4:0:112:PRO:HG3	4:1:196:ARG:N	1.67	1.00
4:V:324:THR:CG2	4:X:247:VAL:N	2.24	1.00
1:A:641:LYS:HE3	1:A:647:GLN:CB	1.91	1.00
1:D:174:SER:HB3	1:D:667:THR:HG21	1.44	1.00
1:D:553:MLY:HB3	4:W:46:GLY:CA	1.51	1.00
1:D:599:ASN:HA	1:D:649:VAL:HB	1.05	1.00
1:G:641:LYS:HE3	1:G:647:GLN:CB	1.91	1.00
4:0:288:ASP:OD2	4:2:63:GLY:N	1.95	1.00
4:9:3:ASP:HA	4:9:6:THR:HB	1.36	1.00
1:D:56:GLU:HB2	1:D:59:MLY:HB3	1.40	1.00
1:J:174:SER:HB3	1:J:667:THR:HG21	1.44	1.00
1:J:642:LYS:HD3	4:W:340:TRP:CZ3	1.96	1.00
1:A:576:GLU:CG	1:A:577:ALA:H	1.74	1.00
2:K:141:PRO:HB2	2:K:142:PRO:HD2	1.44	1.00
1:D:218:LEU:CA	1:D:221:GLN:HG3	1.91	1.00
1:J:206:LYS:HD2	1:J:217:THR:HG23	1.41	1.00
1:J:768:MLY:HH11	1:J:772:LEU:HD12	1.00	1.00
1:A:576:GLU:HG2	1:A:577:ALA:H	0.85	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:834:LEU:HG	2:E:54:MET:HG3	1.40	0.99
1:G:98:HIS:HB3	1:G:100:PRO:HD2	1.42	0.99
1:J:838:ILE:HD11	2:K:54:MET:HE1	1.04	0.99
1:A:56:GLU:HB2	1:A:59:MLY:HB3	1.40	0.99
1:A:505:MLY:HB3	1:A:762:HIS:H	1.23	0.99
1:A:797:PHE:CE2	3:C:146:ILE:CD1	2.43	0.99
1:D:506:GLU:CG	1:D:764:MLY:HE3	1.92	0.99
1:G:84:MLY:HB3	1:G:723:ARG:HE	1.27	0.99
3:I:24:LYS:HG2	3:I:63:ILE:O	1.59	0.99
3:I:48:LYS:O	3:I:52:ASN:ND2	1.94	0.99
1:P:93:MET:SD	1:P:715:VAL:HA	2.02	0.99
1:P:534:SER:C	4:0:351:THR:HA	1.81	0.99
1:A:93:MET:CG	1:A:715:VAL:HG22	1.91	0.99
1:A:501:GLU:CG	1:A:762:HIS:HD1	1.73	0.99
1:D:534:SER:O	4:9:351:THR:HA	1.59	0.99
1:D:534:SER:C	4:9:351:THR:HA	1.81	0.99
1:D:642:LYS:HD3	4:9:340:TRP:CH2	1.96	0.99
1:D:799:MET:SD	3:F:32:ASP:HA	1.98	0.99
1:P:174:SER:HB3	1:P:667:THR:HG21	1.44	0.99
1:P:206:LYS:HD2	1:P:217:THR:HG23	1.41	0.99
2:Q:139:ALA:O	2:Q:141:PRO:HD3	1.62	0.99
4:1:244:ASP:CB	4:Z:322:PRO:HB3	1.92	0.99
4:8:322:PRO:HB3	4:V:244:ASP:OD2	1.62	0.99
1:A:553:MLY:HG2	4:V:44:MET:O	1.59	0.99
1:A:612:GLN:HE22	1:A:627:GLY:CA	1.75	0.99
1:D:795:ARG:NH2	3:F:116:GLU:CG	2.25	0.99
3:F:48:LYS:O	3:F:52:ASN:ND2	1.94	0.99
1:G:649:VAL:CG1	1:G:649:VAL:HG22	1.92	0.99
1:G:754:ASP:CB	1:G:776:GLU:HA	1.91	0.99
1:J:218:LEU:CA	1:J:221:GLN:HG3	1.91	0.99
2:K:150:TYR:O	2:K:151:LYS:CB	2.06	0.99
4:3:288:ASP:N	4:5:203:THR:HG22	1.75	0.99
1:J:529:PRO:C	4:W:354:GLN:HB3	1.78	0.99
4:8:286:ASP:OD1	4:V:203:THR:HG22	1.62	0.99
1:A:98:HIS:HB3	1:A:100:PRO:HD2	1.42	0.99
1:A:218:LEU:CA	1:A:221:GLN:HG3	1.91	0.99
1:A:534:SER:C	4:8:351:THR:HA	1.81	0.99
2:B:149:ASP:OD2	2:B:150:TYR:O	1.80	0.99
2:B:150:TYR:C	2:B:151:LYS:HG3	1.83	0.99
1:D:529:PRO:C	4:9:354:GLN:HB3	1.78	0.99
1:D:612:GLN:HE22	1:D:627:GLY:CA	1.75	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:639:GLY:CA	4:9:345:ILE:CA	2.40	0.99
1:G:93:MET:CE	1:G:764:MLY:HD3	1.93	0.99
1:G:757:GLN:CG	1:G:776:GLU:CG	1.99	0.99
1:P:641:LYS:HE3	1:P:647:GLN:CB	1.91	0.99
4:X:287:ILE:CG1	4:Z:201:VAL:HG23	1.91	0.99
1:D:98:HIS:HB3	1:D:100:PRO:HD2	1.42	0.99
1:D:830:PRO:HG2	2:E:67:MET:CE	1.93	0.99
1:G:206:LYS:HD2	1:G:217:THR:HG23	1.41	0.99
1:J:639:GLY:CA	4:W:345:ILE:CA	2.40	0.99
1:J:838:ILE:CD1	2:K:54:MET:HE1	1.90	0.99
1:P:218:LEU:CA	1:P:221:GLN:HG3	1.91	0.99
2:Q:149:ASP:OD2	2:Q:150:TYR:O	1.80	0.99
4:0:204:ALA:CB	4:Y:288:ASP:HB2	1.91	0.99
4:0:243:PRO:CA	4:Y:291:LYS:HE3	1.93	0.99
1:A:505:MLY:HG2	1:A:762:HIS:CD2	1.97	0.99
1:D:576:GLU:HG2	1:D:577:ALA:H	0.85	0.99
1:G:218:LEU:CA	1:G:221:GLN:HG3	1.91	0.99
1:G:821:ARG:HH22	2:H:127:ARG:HG2	0.91	0.99
4:2:287:ILE:HD13	4:4:203:THR:HB	1.42	0.99
1:G:829:TRP:CZ3	2:H:87:LYS:NZ	2.30	0.99
2:H:149:ASP:OD2	2:H:150:TYR:O	1.80	0.99
1:J:215:GLN:CA	1:J:340:ILE:HG23	1.92	0.99
1:J:641:LYS:HE3	1:J:647:GLN:CB	1.91	0.99
1:J:795:ARG:C	3:L:35:ARG:CZ	2.30	0.99
1:A:215:GLN:CA	1:A:340:ILE:HG23	1.92	0.99
1:A:576:GLU:HG2	1:A:577:ALA:N	1.66	0.99
1:A:639:GLY:CA	4:8:345:ILE:CA	2.41	0.99
1:A:791:GLN:CD	3:C:116:GLU:H	1.66	0.99
1:D:649:VAL:CG1	1:D:649:VAL:HG22	1.92	0.99
2:H:112:ILE:O	2:H:147:ASN:C	2.01	0.99
1:P:503:TYR:CZ	1:P:711:PHE:HD2	1.80	0.99
2:Q:150:TYR:C	2:Q:151:LYS:HG3	1.83	0.99
1:A:498:LEU:HD21	1:A:764:MLY:HH22	1.40	0.98
1:D:641:LYS:CG	4:9:348:SER:HB2	1.87	0.98
1:G:530:MET:CE	4:V:354:GLN:CG	2.39	0.98
2:H:121:LEU:C	2:H:128:PHE:HB3	1.72	0.98
2:H:139:ALA:O	2:H:141:PRO:HD3	1.62	0.98
1:P:649:VAL:CG1	1:P:649:VAL:HG22	1.92	0.98
3:R:52:ASN:HB2	3:R:53:PRO:HD3	1.46	0.98
1:A:530:MET:CE	4:8:354:GLN:CG	2.41	0.98
2:B:112:ILE:O	2:B:147:ASN:C	2.01	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:141:PRO:HB2	2:B:142:PRO:HD2	1.44	0.98
1:D:639:GLY:N	4:9:345:ILE:N	1.94	0.98
1:D:641:LYS:HE3	1:D:647:GLN:CB	1.91	0.98
1:D:797:PHE:CG	3:F:146:ILE:HG23	1.97	0.98
1:G:639:GLY:CA	4:V:345:ILE:CA	2.40	0.98
1:J:649:VAL:CG1	1:J:649:VAL:HG22	1.92	0.98
1:P:753:VAL:HG11	1:P:775:LEU:HD11	1.43	0.98
4:2:324:THR:HG21	4:4:244:ASP:O	1.59	0.98
4:3:322:PRO:CB	4:5:244:ASP:CB	2.40	0.98
4:8:287:ILE:HB	4:V:204:ALA:H	1.25	0.98
4:9:286:ASP:OD1	4:W:203:THR:HG22	1.62	0.98
1:D:795:ARG:NE	3:F:116:GLU:OE2	1.96	0.98
1:G:612:GLN:HE22	1:G:627:GLY:CA	1.75	0.98
1:P:817:GLN:HG2	2:Q:127:ARG:HB2	1.45	0.98
4:0:288:ASP:OD2	4:2:63:GLY:CA	2.11	0.98
4:1:203:THR:HG21	4:Z:288:ASP:OD2	1.61	0.98
4:1:287:ILE:HD13	4:3:203:THR:CB	1.93	0.98
1:A:649:VAL:CG1	1:A:649:VAL:HG22	1.92	0.98
1:D:576:GLU:CG	1:D:577:ALA:H	1.75	0.98
3:F:52:ASN:HB2	3:F:53:PRO:HD3	1.45	0.98
1:G:795:ARG:CA	3:I:118:MET:CE	2.37	0.98
1:J:95:THR:HA	1:J:713:SER:CB	1.93	0.98
1:J:553:MLY:HE3	4:Y:45:VAL:CG1	1.92	0.98
2:K:149:ASP:OD2	2:K:150:TYR:O	1.80	0.98
2:K:150:TYR:C	2:K:151:LYS:HG3	1.83	0.98
1:P:612:GLN:HE22	1:P:627:GLY:CA	1.76	0.98
4:1:204:ALA:H	4:Z:287:ILE:HG21	1.28	0.98
1:A:641:LYS:CG	4:8:348:SER:HB2	1.87	0.98
2:B:130:PRO:O	2:B:133:ILE:N	1.96	0.98
1:D:215:GLN:CA	1:D:340:ILE:HG23	1.92	0.98
1:D:800:ARG:HH21	3:F:40:ASN:CG	1.61	0.98
1:G:93:MET:HA	1:G:714:ARG:N	1.77	0.98
1:J:505:MLY:HD2	1:J:762:HIS:HE1	1.27	0.98
1:J:818:TYR:OH	2:K:127:ARG:NH2	1.94	0.98
2:K:112:ILE:O	2:K:147:ASN:C	2.01	0.98
1:P:215:GLN:CA	1:P:340:ILE:HG23	1.92	0.98
4:7:287:ILE:HB	4:9:204:ALA:H	1.25	0.98
1:P:736:GLN:N	1:P:743:ALA:CB	2.05	0.98
3:R:48:LYS:O	3:R:52:ASN:ND2	1.94	0.98
4:1:324:THR:OG1	4:3:244:ASP:CA	2.12	0.98
4:7:322:PRO:HB3	4:9:244:ASP:OD2	1.62	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:797:PHE:HD1	3:C:146:ILE:O	1.35	0.98
1:A:818:TYR:HB2	2:B:90:GLY:HA3	0.98	0.98
1:D:795:ARG:HB3	3:F:35:ARG:NH2	1.79	0.98
1:G:784:ALA:O	1:G:788:THR:N	1.96	0.98
1:J:506:GLU:OE2	1:J:761:GLY:CA	2.11	0.98
1:J:576:GLU:HG2	1:J:577:ALA:H	0.85	0.98
1:G:821:ARG:NH2	2:H:127:ARG:CG	2.26	0.98
4:0:244:ASP:N	4:Y:291:LYS:CE	0.85	0.98
4:V:324:THR:HG21	4:X:246:GLN:C	1.70	0.98
2:B:117:LEU:HD13	2:B:147:ASN:OD1	1.64	0.98
2:B:139:ALA:O	2:B:141:PRO:HD3	1.62	0.98
1:D:642:LYS:HD2	4:9:24:ASP:O	1.64	0.98
1:G:28:GLN:HB3	1:G:723:ARG:HH12	0.82	0.98
1:P:734:GLU:HG3	3:R:93:VAL:CG2	1.93	0.98
2:B:117:LEU:CB	2:B:147:ASN:CG	2.32	0.98
1:G:553:MLY:CE	4:X:45:VAL:HB	1.91	0.98
1:J:84:MLY:CH2	1:J:720:PHE:CA	2.34	0.98
1:P:530:MET:CE	4:0:354:GLN:CG	2.40	0.98
2:Q:117:LEU:CB	2:Q:147:ASN:CG	2.32	0.98
1:A:795:ARG:HH21	3:C:116:GLU:CG	1.75	0.97
1:D:646:PHE:HE2	1:D:652:LEU:HD21	1.24	0.97
1:P:576:GLU:HG2	1:P:577:ALA:H	0.85	0.97
1:P:641:LYS:HD2	1:P:647:GLN:CD	1.70	0.97
3:R:46:ILE:O	3:R:50:LEU:HG	1.64	0.97
1:A:174:SER:HB3	1:A:667:THR:HG21	1.44	0.97
1:D:218:LEU:CA	1:D:221:GLN:CG	2.42	0.97
1:D:641:LYS:HG3	1:D:647:GLN:NE2	1.59	0.97
1:J:612:GLN:HE22	1:J:627:GLY:CA	1.76	0.97
2:K:139:ALA:O	2:K:141:PRO:HD3	1.62	0.97
1:P:818:TYR:CE1	2:Q:127:ARG:CZ	2.46	0.97
1:A:218:LEU:CA	1:A:221:GLN:CG	2.42	0.97
2:E:149:ASP:OD2	2:E:150:TYR:O	1.80	0.97
1:J:534:SER:O	4:W:351:THR:HA	1.59	0.97
1:P:542:PHE:CG	4:0:143:TYR:CE1	2.53	0.97
1:P:708:ARG:HA	1:P:712:PRO:HG3	1.43	0.97
1:P:793:ARG:NE	3:R:87:PHE:CE1	2.31	0.97
1:A:542:PHE:CG	4:8:143:TYR:CE1	2.52	0.97
2:B:144:VAL:HG13	2:B:153:ILE:HD11	1.21	0.97
2:E:112:ILE:O	2:E:147:ASN:C	2.01	0.97
2:E:117:LEU:CB	2:E:147:ASN:CG	2.32	0.97
1:J:557:GLU:HA	4:Y:47:MET:HA	1.04	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:641:LYS:HG3	1:J:647:GLN:NE2	1.59	0.97
1:P:576:GLU:CG	1:P:577:ALA:H	1.75	0.97
1:A:93:MET:CE	1:A:715:VAL:HG13	1.94	0.97
1:D:507:GLY:HA3	1:D:762:HIS:CG	1.99	0.97
3:L:46:ILE:O	3:L:50:LEU:HG	1.64	0.97
1:P:639:GLY:CA	4:0:345:ILE:CA	2.40	0.97
4:7:286:ASP:OD1	4:9:203:THR:HG22	1.62	0.97
1:A:642:LYS:HG2	4:8:21:PHE:O	1.65	0.97
1:A:834:LEU:HD21	2:B:54:MET:HE3	0.98	0.97
1:D:747:LEU:CD1	1:D:782:MLY:HH21	1.93	0.97
1:D:815:CYS:SG	2:E:92:ASP:CB	2.52	0.97
1:G:576:GLU:HG2	1:G:577:ALA:N	1.66	0.97
2:H:117:LEU:CB	2:H:147:ASN:CG	2.32	0.97
2:H:121:LEU:HG	2:H:128:PHE:HA	1.47	0.97
1:J:218:LEU:CA	1:J:221:GLN:CG	2.42	0.97
1:P:649:VAL:CG2	1:P:649:VAL:CA	2.42	0.97
2:Q:112:ILE:O	2:Q:147:ASN:C	2.02	0.97
1:A:149:GLN:OE1	1:A:716:LEU:HD23	0.80	0.97
3:C:52:ASN:HB2	3:C:53:PRO:HD3	1.45	0.97
1:D:831:TRP:CH2	2:E:34:ILE:HG23	1.99	0.97
2:H:130:PRO:O	2:H:133:ILE:N	1.96	0.97
1:J:642:LYS:HG2	4:W:21:PHE:O	1.65	0.97
1:J:820:VAL:CG1	2:K:136:MET:HE3	1.92	0.97
2:Q:130:PRO:O	2:Q:133:ILE:N	1.96	0.97
4:1:202:THR:HB	4:Z:287:ILE:CB	1.94	0.97
1:A:215:GLN:H	1:A:340:ILE:CG1	1.73	0.97
1:G:174:SER:HB3	1:G:667:THR:HG21	1.44	0.97
1:J:797:PHE:CE2	3:L:126:LEU:HD22	2.00	0.97
1:P:508:ILE:CD1	1:P:759:ALA:CB	2.42	0.97
2:B:150:TYR:O	2:B:151:LYS:HG3	1.65	0.97
1:D:831:TRP:NE1	2:E:67:MET:SD	2.37	0.97
2:E:121:LEU:HG	2:E:128:PHE:CA	1.59	0.97
1:G:752:ASP:O	1:G:780:ASP:CA	2.12	0.97
1:J:505:MLY:CD	1:J:762:HIS:HE1	1.77	0.97
4:3:287:ILE:HD13	4:5:203:THR:CB	1.92	0.97
1:A:641:LYS:HG3	1:A:647:GLN:NE2	1.58	0.97
1:A:819:ASN:HD21	2:B:92:ASP:N	1.56	0.97
1:D:542:PHE:CG	4:9:143:TYR:CE1	2.52	0.97
2:E:141:PRO:HB2	2:E:142:PRO:HD2	1.44	0.97
1:G:218:LEU:CA	1:G:221:GLN:CG	2.42	0.97
1:G:635:GLY:HA3	4:V:334:GLU:HG2	1.46	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:642:LYS:HG2	4:V:21:PHE:O	1.65	0.97
2:K:130:PRO:O	2:K:133:ILE:N	1.96	0.97
4:W:286:ASP:OD2	4:Y:203:THR:HG22	1.62	0.97
2:E:139:ALA:O	2:E:141:PRO:HD3	1.62	0.96
2:H:150:TYR:C	2:H:151:LYS:HG3	1.83	0.96
1:J:576:GLU:CG	1:J:577:ALA:H	1.75	0.96
1:J:639:GLY:N	4:W:345:ILE:N	1.94	0.96
1:J:649:VAL:CG2	1:J:649:VAL:CA	2.43	0.96
2:K:121:LEU:HG	2:K:128:PHE:CA	1.59	0.96
1:A:534:SER:O	4:8:351:THR:HG23	1.13	0.96
1:D:553:MLY:HB3	4:W:46:GLY:HA2	1.47	0.96
2:K:117:LEU:CB	2:K:147:ASN:CG	2.32	0.96
2:Q:141:PRO:HB2	2:Q:142:PRO:HD2	1.44	0.96
4:3:288:ASP:H	4:5:203:THR:HG22	1.29	0.96
4:9:322:PRO:HB3	4:W:244:ASP:OD2	1.62	0.96
1:G:637:LYS:NZ	4:V:141:SER:O	1.99	0.96
3:I:46:ILE:O	3:I:50:LEU:HG	1.64	0.96
1:J:553:MLY:HE3	4:Y:45:VAL:HG11	1.47	0.96
2:K:117:LEU:HD13	2:K:147:ASN:OD1	1.64	0.96
1:P:783:LEU:HA	1:P:786:ILE:HG13	0.97	0.96
4:3:322:PRO:HB2	4:5:244:ASP:CB	1.95	0.96
1:A:649:VAL:CG2	1:A:649:VAL:CA	2.43	0.96
1:A:795:ARG:CG	3:C:35:ARG:HH12	1.79	0.96
1:G:721:LYS:CA	1:G:736:GLN:CD	2.34	0.96
1:G:736:GLN:CA	1:G:743:ALA:HB2	1.95	0.96
1:P:92:ALA:O	1:P:713:SER:HA	1.65	0.96
4:1:287:ILE:CG2	4:3:204:ALA:H	1.78	0.96
4:X:324:THR:HG22	4:Z:247:VAL:HG22	1.00	0.96
1:A:505:MLY:CA	1:A:762:HIS:CD2	2.48	0.96
1:D:206:LYS:CD	1:D:217:THR:CG2	2.16	0.96
3:I:52:ASN:HB2	3:I:53:PRO:HD3	1.46	0.96
1:P:733:PRO:HB2	3:R:93:VAL:CG1	1.95	0.96
2:Q:150:TYR:O	2:Q:151:LYS:HG3	1.65	0.96
1:A:642:LYS:HD2	4:8:24:ASP:O	1.64	0.96
1:A:649:VAL:CG1	1:A:649:VAL:CG2	2.43	0.96
1:D:736:GLN:CA	1:D:743:ALA:HB2	1.95	0.96
1:G:206:LYS:CD	1:G:217:THR:CG2	2.16	0.96
1:G:508:ILE:HD11	1:G:759:ALA:HB2	0.98	0.96
1:J:543:PRO:CG	4:W:143:TYR:O	2.14	0.96
1:P:641:LYS:HG3	1:P:647:GLN:NE2	1.59	0.96
1:D:215:GLN:H	1:D:340:ILE:CG1	1.73	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:649:VAL:CG2	1:D:649:VAL:CA	2.42	0.96
1:G:838:ILE:HD12	2:H:54:MET:HE3	1.45	0.96
1:J:642:LYS:HD2	4:W:24:ASP:O	1.65	0.96
1:J:756:THR:HG22	1:J:776:GLU:CG	1.95	0.96
1:J:821:ARG:NH2	2:K:127:ARG:CG	2.29	0.96
1:P:218:LEU:CA	1:P:221:GLN:CG	2.42	0.96
1:A:93:MET:SD	1:A:715:VAL:HG22	2.04	0.96
1:A:538:GLU:N	4:8:349:LEU:CD1	2.28	0.96
1:A:721:LYS:CA	1:A:736:GLN:CD	2.34	0.96
1:D:642:LYS:HG2	4:9:21:PHE:O	1.65	0.96
2:E:150:TYR:C	2:E:151:LYS:HG3	1.83	0.96
1:G:642:LYS:HD2	4:V:24:ASP:O	1.64	0.96
2:H:141:PRO:HB2	2:H:142:PRO:HD2	1.44	0.96
2:K:121:LEU:HG	2:K:128:PHE:HA	1.47	0.96
1:P:97:LEU:HD23	1:P:712:PRO:HB3	0.99	0.96
4:2:324:THR:HB	4:4:243:PRO:O	1.14	0.96
1:A:502:GLU:OE2	1:A:761:GLY:N	1.82	0.96
1:A:635:GLY:HA3	4:8:334:GLU:HG2	1.47	0.96
1:A:797:PHE:HZ	3:C:146:ILE:HD13	1.26	0.96
1:A:800:ARG:NH2	3:C:40:ASN:CG	2.18	0.96
1:D:506:GLU:CG	1:D:764:MLY:CE	2.43	0.96
1:D:795:ARG:HH21	3:F:116:GLU:CG	1.79	0.96
1:D:819:ASN:CB	2:E:90:GLY:O	2.14	0.96
2:E:150:TYR:O	2:E:151:LYS:HG3	1.65	0.96
1:G:649:VAL:CG2	1:G:649:VAL:CA	2.42	0.96
1:J:542:PHE:CG	4:W:143:TYR:CE1	2.53	0.96
1:P:792:ALA:CA	3:R:42:THR:CG2	2.43	0.96
4:8:288:ASP:HA	4:V:204:ALA:HB2	1.48	0.96
4:9:288:ASP:HA	4:W:204:ALA:HB2	1.48	0.96
1:A:831:TRP:HZ3	2:B:50:THR:CG2	1.56	0.96
1:P:637:LYS:NZ	4:0:141:SER:O	1.99	0.96
1:D:813:ILE:HG23	2:E:128:PHE:CZ	2.01	0.95
1:G:538:GLU:HG3	4:V:352:PHE:N	1.81	0.95
1:G:830:PRO:CB	2:H:67:MET:HE1	1.95	0.95
1:J:756:THR:CA	1:J:776:GLU:OE1	2.13	0.95
2:K:150:TYR:O	2:K:151:LYS:HG3	1.65	0.95
1:P:543:PRO:CG	4:0:143:TYR:O	2.14	0.95
1:A:149:GLN:CD	1:A:718:ALA:HB3	1.86	0.95
1:A:637:LYS:NZ	4:8:141:SER:O	1.99	0.95
1:J:649:VAL:CG1	1:J:649:VAL:CG2	2.43	0.95
4:0:199:SER:O	4:Y:287:ILE:HG21	1.65	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:1:287:ILE:CG1	4:3:202:THR:HA	1.92	0.95
4:X:291:LYS:CE	4:Z:243:PRO:C	2.34	0.95
1:D:538:GLU:N	4:9:349:LEU:CD1	2.28	0.95
1:D:641:LYS:HD2	1:D:647:GLN:CD	1.70	0.95
1:G:148:ARG:CZ	1:G:764:MLY:HH21	1.95	0.95
1:G:813:ILE:CG2	2:H:128:PHE:CE1	2.49	0.95
1:J:84:MLY:CH1	1:J:720:PHE:CE1	2.45	0.95
1:P:797:PHE:CE2	3:R:126:LEU:HD13	1.99	0.95
4:0:112:PRO:HB3	4:1:196:ARG:HA	1.00	0.95
1:A:831:TRP:CZ3	2:B:34:ILE:HG12	2.01	0.95
3:C:46:ILE:O	3:C:50:LEU:HG	1.65	0.95
1:G:542:PHE:CG	4:V:143:TYR:CE1	2.53	0.95
1:J:721:LYS:CA	1:J:736:GLN:CD	2.34	0.95
1:J:783:LEU:O	1:J:787:ILE:N	1.99	0.95
1:P:642:LYS:HG2	4:0:21:PHE:O	1.65	0.95
1:P:735:GLY:C	1:P:743:ALA:CA	2.34	0.95
4:7:288:ASP:HA	4:9:204:ALA:HB2	1.48	0.95
1:D:649:VAL:CG1	1:D:649:VAL:CG2	2.43	0.95
1:D:813:ILE:HG23	2:E:128:PHE:CE1	2.00	0.95
1:G:546:THR:HG22	1:G:548:THR:H	1.32	0.95
1:G:649:VAL:CG1	1:G:649:VAL:CG2	2.43	0.95
1:J:735:GLY:C	1:J:743:ALA:CA	2.34	0.95
4:2:288:ASP:N	4:4:203:THR:HG22	1.80	0.95
4:X:291:LYS:HE2	4:Z:243:PRO:C	1.85	0.95
1:A:502:GLU:CB	1:A:761:GLY:HA3	1.97	0.95
1:D:543:PRO:CG	4:9:143:TYR:O	2.14	0.95
1:D:721:LYS:CA	1:D:736:GLN:CD	2.34	0.95
2:E:130:PRO:O	2:E:133:ILE:N	1.96	0.95
3:F:46:ILE:O	3:F:50:LEU:HG	1.65	0.95
1:G:530:MET:HA	4:V:354:GLN:HG3	0.97	0.95
1:J:637:LYS:NZ	4:W:141:SER:O	1.98	0.95
1:J:817:GLN:OE1	2:K:127:ARG:HD2	1.65	0.95
1:J:836:PHE:CZ	2:K:160:GLY:N	2.34	0.95
1:P:534:SER:O	4:0:351:THR:HA	1.60	0.95
1:P:538:GLU:HG3	4:0:352:PHE:N	1.81	0.95
1:P:649:VAL:CG1	1:P:649:VAL:CG2	2.43	0.95
4:1:244:ASP:HB3	4:Z:322:PRO:HB3	1.48	0.95
1:D:537:GLU:C	4:9:349:LEU:CD1	2.20	0.95
1:D:735:GLY:C	1:D:743:ALA:CA	2.35	0.95
1:J:538:GLU:N	4:W:349:LEU:CD1	2.28	0.95
1:P:800:ARG:HD3	3:R:149:VAL:O	1.66	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:206:LYS:CD	1:A:217:THR:CG2	2.16	0.95
1:A:818:TYR:CB	2:B:90:GLY:HA3	1.93	0.95
2:E:117:LEU:HD13	2:E:147:ASN:OD1	1.64	0.95
1:G:735:GLY:C	1:G:743:ALA:CA	2.34	0.95
2:H:150:TYR:O	2:H:151:LYS:HG3	1.65	0.95
1:J:820:VAL:CG1	2:K:136:MET:CE	2.44	0.95
1:J:829:TRP:CH2	2:K:87:LYS:HE2	2.01	0.95
1:A:538:GLU:HG3	4:8:352:PHE:N	1.82	0.95
1:A:541:MET:N	4:8:349:LEU:HD21	1.80	0.95
1:A:735:GLY:C	1:A:743:ALA:CA	2.34	0.95
2:B:54:MET:CA	2:H:21:GLU:OE1	2.14	0.95
1:D:215:GLN:HA	1:D:340:ILE:HG23	0.95	0.95
1:G:538:GLU:N	4:V:349:LEU:CD1	2.29	0.95
3:L:52:ASN:HB2	3:L:53:PRO:HD3	1.45	0.95
1:P:799:MET:HB2	3:R:35:ARG:CD	1.94	0.95
1:P:821:ARG:HH22	2:Q:127:ARG:HG2	1.17	0.95
4:V:286:ASP:CG	4:X:203:THR:HG22	1.87	0.95
1:A:791:GLN:HE22	3:C:115:GLY:CA	1.79	0.95
1:D:541:MET:N	4:9:349:LEU:HD21	1.80	0.95
2:H:121:LEU:CB	2:H:128:PHE:HB3	1.69	0.95
2:H:150:TYR:O	2:H:151:LYS:HB2	1.67	0.95
1:J:538:GLU:HG3	4:W:352:PHE:N	1.81	0.95
1:P:538:GLU:N	4:0:349:LEU:CD1	2.28	0.95
4:0:288:ASP:CB	4:2:63:GLY:H	1.80	0.95
4:1:288:ASP:CG	4:3:203:THR:HG23	1.86	0.95
4:1:322:PRO:CB	4:3:244:ASP:CB	2.44	0.95
1:A:530:MET:CA	4:8:354:GLN:CG	2.44	0.94
1:A:543:PRO:CG	4:8:143:TYR:O	2.14	0.94
1:G:641:LYS:HG3	1:G:647:GLN:NE2	1.58	0.94
2:H:117:LEU:HD13	2:H:147:ASN:OD1	1.64	0.94
2:H:150:TYR:O	2:H:151:LYS:CG	2.15	0.94
1:J:736:GLN:CA	1:J:743:ALA:HB2	1.95	0.94
2:K:150:TYR:O	2:K:151:LYS:CG	2.15	0.94
1:P:552:ASN:ND2	4:2:49:GLN:HB3	1.73	0.94
1:P:642:LYS:CG	4:0:23:GLY:H	1.77	0.94
2:Q:150:TYR:O	2:Q:151:LYS:HB2	1.67	0.94
1:D:538:GLU:HG3	4:9:352:PHE:N	1.81	0.94
1:P:642:LYS:HD2	4:0:24:ASP:O	1.65	0.94
4:0:112:PRO:CB	4:1:196:ARG:HA	1.87	0.94
1:A:530:MET:HA	4:8:354:GLN:HG3	0.96	0.94
1:A:553:MLY:HB3	4:V:46:GLY:HA2	1.47	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:530:MET:HA	4:9:354:GLN:HG3	0.96	0.94
1:D:635:GLY:HA3	4:9:334:GLU:HG2	1.47	0.94
1:G:791:GLN:HE21	3:I:115:GLY:HA3	1.21	0.94
1:P:721:LYS:CA	1:P:736:GLN:CD	2.34	0.94
4:1:204:ALA:H	4:Z:287:ILE:CG2	1.81	0.94
4:3:322:PRO:HB2	4:5:244:ASP:HB3	1.49	0.94
1:A:799:MET:SD	3:C:32:ASP:HA	2.08	0.94
2:E:150:TYR:O	2:E:151:LYS:CG	2.15	0.94
2:E:150:TYR:O	2:E:151:LYS:HB2	1.67	0.94
1:G:642:LYS:CG	4:V:23:GLY:H	1.76	0.94
1:G:708:ARG:HA	1:G:712:PRO:HG3	1.47	0.94
1:G:792:ALA:CB	3:I:42:THR:CA	2.44	0.94
1:P:530:MET:HA	4:0:354:GLN:HG3	0.96	0.94
1:P:736:GLN:CA	1:P:743:ALA:HB2	1.95	0.94
1:P:834:LEU:HD13	2:Q:51:PHE:HE1	1.28	0.94
4:1:203:THR:HB	4:Z:287:ILE:CD1	1.96	0.94
1:D:637:LYS:NZ	4:9:141:SER:O	1.99	0.94
2:E:144:VAL:HG13	2:E:153:ILE:HD11	1.21	0.94
1:J:635:GLY:HA3	4:W:334:GLU:HG2	1.47	0.94
1:P:725:ARG:HH21	3:R:93:VAL:HG11	0.80	0.94
1:P:797:PHE:CD1	3:R:146:ILE:HG21	2.03	0.94
4:0:166:TYR:OH	4:2:64:ILE:CG2	2.15	0.94
1:A:557:GLU:N	4:V:48:GLY:CA	2.12	0.94
1:A:823:PHE:HE1	2:B:160:GLY:CA	1.80	0.94
1:G:218:LEU:CB	1:G:221:GLN:CG	2.45	0.94
1:G:829:TRP:HZ3	2:H:84:PHE:CE1	1.82	0.94
1:J:793:ARG:HH11	3:L:40:ASN:HD22	1.10	0.94
1:A:642:LYS:CG	4:8:23:GLY:H	1.77	0.94
1:A:836:PHE:HZ	2:B:160:GLY:H	0.95	0.94
1:D:546:THR:HG22	1:D:548:THR:H	1.32	0.94
1:J:505:MLY:HG3	1:J:762:HIS:CE1	2.03	0.94
1:P:635:GLY:HA3	4:0:334:GLU:HG2	1.47	0.94
1:A:505:MLY:HH21	1:A:762:HIS:O	1.67	0.94
1:A:612:GLN:NE2	1:A:627:GLY:HA3	1.83	0.94
1:A:795:ARG:CZ	3:C:116:GLU:CD	2.28	0.94
2:B:150:TYR:O	2:B:151:LYS:HB2	1.67	0.94
1:J:97:LEU:CD2	1:J:712:PRO:CB	2.45	0.94
1:J:218:LEU:CB	1:J:221:GLN:CG	2.46	0.94
1:J:821:ARG:HH22	2:K:127:ARG:HG2	1.22	0.94
1:P:546:THR:HG22	1:P:548:THR:H	1.32	0.94
1:P:639:GLY:N	4:0:345:ILE:N	1.94	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:813:ILE:HG23	2:Q:128:PHE:CZ	2.02	0.94
4:X:324:THR:HB	4:Z:246:GLN:HA	1.50	0.94
1:D:530:MET:CE	4:9:354:GLN:CG	2.40	0.94
1:G:541:MET:N	4:V:349:LEU:HD21	1.80	0.94
1:J:530:MET:HA	4:W:354:GLN:HG3	0.96	0.94
1:J:612:GLN:NE2	1:J:627:GLY:CA	2.31	0.94
1:J:795:ARG:C	3:L:35:ARG:NH2	2.21	0.94
1:P:84:MLY:CD	1:P:724:TYR:OH	2.16	0.94
1:P:612:GLN:NE2	1:P:627:GLY:CA	2.31	0.94
1:P:804:ARG:HG3	1:P:808:GLU:CG	1.94	0.94
1:A:149:GLN:CG	1:A:719:ASP:H	1.81	0.94
1:A:739:ASP:HB3	1:A:742:LYS:CB	1.98	0.94
2:B:121:LEU:HG	2:B:128:PHE:HA	1.47	0.94
1:G:543:PRO:CG	4:V:143:TYR:O	2.15	0.94
1:G:801:VAL:CG2	3:I:126:LEU:CD2	2.45	0.94
1:J:817:GLN:CG	2:K:127:ARG:CB	2.40	0.94
1:P:530:MET:CA	4:0:354:GLN:CG	2.44	0.94
1:A:218:LEU:CB	1:A:221:GLN:CG	2.46	0.93
1:A:736:GLN:CA	1:A:743:ALA:HB2	1.95	0.93
1:D:218:LEU:CB	1:D:221:GLN:CG	2.46	0.93
1:G:612:GLN:NE2	1:G:627:GLY:HA3	1.83	0.93
4:X:291:LYS:HD2	4:Z:244:ASP:H	1.23	0.93
1:A:834:LEU:CD2	2:B:54:MET:HE3	1.75	0.93
1:D:798:LEU:HD11	3:F:126:LEU:CG	1.97	0.93
1:P:612:GLN:NE2	1:P:627:GLY:HA3	1.83	0.93
1:P:734:GLU:CG	3:R:93:VAL:HG22	1.98	0.93
4:1:288:ASP:N	4:3:203:THR:HG22	1.82	0.93
1:G:754:ASP:HB2	1:G:776:GLU:CA	1.98	0.93
1:J:537:GLU:C	4:W:349:LEU:CD1	2.20	0.93
1:J:736:GLN:HA	1:J:743:ALA:HB2	1.50	0.93
1:J:796:GLY:HA2	3:L:35:ARG:HD3	1.51	0.93
1:P:508:ILE:HD11	1:P:759:ALA:HB2	0.95	0.93
1:D:739:ASP:HB3	1:D:742:LYS:CB	1.98	0.93
1:G:97:LEU:CD2	1:G:712:PRO:HB2	1.98	0.93
1:G:788:THR:O	3:I:42:THR:HG21	1.69	0.93
1:G:795:ARG:CB	3:I:35:ARG:HH12	1.81	0.93
1:J:612:GLN:NE2	1:J:627:GLY:HA3	1.83	0.93
1:P:792:ALA:N	3:R:42:THR:CG2	2.31	0.93
4:V:325:MET:CE	4:X:244:ASP:CG	2.37	0.93
1:G:28:GLN:O	1:G:723:ARG:NH2	2.00	0.93
1:G:829:TRP:CZ3	2:H:84:PHE:CZ	2.54	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:530:MET:CA	4:W:354:GLN:CG	2.44	0.93
1:D:612:GLN:NE2	1:D:627:GLY:CA	2.31	0.93
1:D:838:ILE:CD1	2:E:54:MET:HE1	1.94	0.93
1:J:206:LYS:CD	1:J:217:THR:CG2	2.16	0.93
2:Q:117:LEU:HD13	2:Q:147:ASN:OD1	1.64	0.93
2:Q:150:TYR:O	2:Q:151:LYS:CG	2.15	0.93
4:3:324:THR:HG23	4:5:244:ASP:C	1.86	0.93
4:X:287:ILE:HG12	4:Z:201:VAL:H	1.29	0.93
1:A:92:ALA:O	1:A:713:SER:HA	1.68	0.93
2:B:121:LEU:CA	2:B:128:PHE:CB	2.46	0.93
1:D:736:GLN:HA	1:D:743:ALA:HB2	1.51	0.93
2:E:121:LEU:HG	2:E:128:PHE:HA	1.46	0.93
1:J:215:GLN:HA	1:J:340:ILE:HG23	0.95	0.93
1:P:642:LYS:CB	4:0:21:PHE:O	2.17	0.93
1:P:648:THR:HG21	1:P:651:ALA:HB2	1.50	0.93
1:P:801:VAL:HG21	3:R:126:LEU:HD21	0.94	0.93
4:2:322:PRO:CB	4:4:244:ASP:CG	2.37	0.93
4:X:291:LYS:CG	4:Z:244:ASP:N	2.24	0.93
4:X:324:THR:CG2	4:Z:247:VAL:HG23	1.93	0.93
1:A:629:GLU:CB	1:A:643:GLY:O	2.17	0.93
1:A:648:THR:HG21	1:A:651:ALA:HB2	1.50	0.93
1:D:818:TYR:CB	2:E:90:GLY:CA	2.22	0.93
2:E:149:ASP:CG	2:E:150:TYR:H	1.72	0.93
1:G:553:MLY:HH12	4:X:45:VAL:HG21	1.46	0.93
1:G:752:ASP:C	1:G:780:ASP:OD1	2.07	0.93
1:J:541:MET:N	4:W:349:LEU:HD21	1.80	0.93
1:A:149:GLN:CB	1:A:719:ASP:OD1	2.16	0.93
1:D:797:PHE:CE1	3:F:146:ILE:CA	2.51	0.93
1:G:530:MET:CA	4:V:354:GLN:CG	2.45	0.93
1:G:612:GLN:NE2	1:G:627:GLY:CA	2.31	0.93
1:J:530:MET:CE	4:W:354:GLN:CG	2.40	0.93
1:J:739:ASP:HB3	1:J:742:LYS:CB	1.98	0.93
1:J:754:ASP:C	1:J:780:ASP:OD2	2.07	0.93
2:Q:121:LEU:HG	2:Q:128:PHE:HA	1.46	0.93
1:D:799:MET:HE1	3:F:32:ASP:HB3	1.47	0.93
1:G:642:LYS:CB	4:V:21:PHE:O	2.17	0.93
1:G:795:ARG:HB2	3:I:35:ARG:HH12	1.33	0.93
1:G:836:PHE:CE1	2:H:159:HIS:HA	2.04	0.93
4:0:167:GLU:OE1	4:2:42:GLY:HA2	1.69	0.93
1:A:215:GLN:HA	1:A:340:ILE:HG23	0.96	0.92
1:G:537:GLU:C	4:V:349:LEU:CD1	2.21	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:28:GLN:OE1	1:J:723:ARG:HG2	1.67	0.92
1:J:538:GLU:N	4:W:351:THR:H	1.67	0.92
1:P:538:GLU:N	4:0:351:THR:H	1.67	0.92
1:P:838:ILE:CD1	2:Q:54:MET:HE3	1.73	0.92
4:1:287:ILE:CD1	4:3:203:THR:HB	1.98	0.92
4:V:286:ASP:OD2	4:X:203:THR:HG22	1.69	0.92
1:A:505:MLY:HG3	1:A:741:LYS:HZ1	1.33	0.92
1:A:549:SER:C	4:V:46:GLY:HA3	1.90	0.92
1:A:736:GLN:HA	1:A:743:ALA:HB2	1.51	0.92
1:A:836:PHE:HE1	2:B:159:HIS:HB2	1.29	0.92
1:G:505:MLY:HH21	1:G:762:HIS:ND1	1.63	0.92
1:G:813:ILE:CG2	2:H:128:PHE:CZ	2.52	0.92
1:J:648:THR:HG21	1:J:651:ALA:HB2	1.50	0.92
1:P:636:LYS:HD2	4:0:332:PRO:HB3	1.52	0.92
1:A:612:GLN:NE2	1:A:627:GLY:CA	2.31	0.92
1:D:549:SER:C	4:W:46:GLY:HA3	1.89	0.92
1:J:636:LYS:HD2	4:W:332:PRO:HB3	1.52	0.92
1:J:641:LYS:HD2	1:J:647:GLN:CD	1.70	0.92
1:P:503:TYR:CZ	1:P:711:PHE:CD2	2.57	0.92
4:W:286:ASP:OD1	4:Y:202:THR:HB	1.69	0.92
4:X:287:ILE:C	4:Z:205:GLU:CD	2.27	0.92
1:A:641:LYS:HE3	1:A:647:GLN:CG	2.00	0.92
1:G:215:GLN:HA	1:G:340:ILE:HG23	0.95	0.92
1:J:757:GLN:HA	1:J:776:GLU:HG3	1.49	0.92
1:P:215:GLN:H	1:P:340:ILE:CG1	1.72	0.92
1:P:541:MET:N	4:0:349:LEU:HD21	1.80	0.92
1:P:836:PHE:HE1	2:Q:159:HIS:HA	1.16	0.92
1:A:636:LYS:HD2	4:8:332:PRO:HB3	1.51	0.92
1:D:213:LYS:HA	1:D:220:ASP:CG	1.90	0.92
1:G:783:LEU:O	1:G:787:ILE:HB	1.70	0.92
1:J:213:LYS:HA	1:J:220:ASP:CG	1.90	0.92
2:B:150:TYR:O	2:B:151:LYS:CG	2.15	0.92
1:D:530:MET:CA	4:9:354:GLN:CG	2.45	0.92
1:D:550:PHE:HA	4:W:46:GLY:CA	2.00	0.92
1:D:629:GLU:CB	1:D:643:GLY:O	2.17	0.92
1:G:503:TYR:CZ	1:G:711:PHE:CE2	2.57	0.92
1:J:97:LEU:HD23	1:J:712:PRO:CB	1.99	0.92
1:P:739:ASP:HB3	1:P:742:LYS:CB	1.98	0.92
1:P:783:LEU:HG	1:P:786:ILE:HD12	1.47	0.92
1:A:797:PHE:HE1	3:C:146:ILE:HA	1.18	0.92
1:G:567:LYS:HZ2	4:X:92:ASN:HD22	1.05	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:739:ASP:HB3	1:G:742:LYS:CB	1.98	0.92
1:J:546:THR:HG22	1:J:548:THR:H	1.32	0.92
1:J:629:GLU:CB	1:J:643:GLY:O	2.17	0.92
1:P:629:GLU:CB	1:P:643:GLY:O	2.17	0.92
1:P:803:TYR:HD1	1:P:807:VAL:HG11	1.18	0.92
1:A:546:THR:HG22	1:A:548:THR:H	1.32	0.92
1:A:800:ARG:HB3	3:C:149:VAL:CG2	1.99	0.92
1:D:537:GLU:O	4:9:349:LEU:HD13	0.74	0.92
1:G:84:MLY:CH2	1:G:719:ASP:O	2.18	0.92
1:G:648:THR:HG21	1:G:651:ALA:HB2	1.50	0.92
1:P:537:GLU:C	4:0:349:LEU:CD1	2.20	0.92
1:A:642:LYS:CB	4:8:21:PHE:O	2.17	0.92
1:A:831:TRP:CZ3	2:B:50:THR:HG22	2.02	0.92
1:D:557:GLU:H	4:W:48:GLY:HA2	1.32	0.92
1:D:636:LYS:HD2	4:9:332:PRO:HB3	1.52	0.92
2:E:121:LEU:CB	2:E:128:PHE:HB3	1.69	0.92
1:G:505:MLY:HH23	1:G:762:HIS:CD2	2.03	0.92
1:G:629:GLU:CB	1:G:643:GLY:O	2.17	0.92
1:G:641:LYS:HE3	1:G:647:GLN:CG	2.00	0.92
1:J:84:MLY:HH23	1:J:720:PHE:HA	1.48	0.92
1:J:505:MLY:CG	1:J:762:HIS:CE1	2.51	0.92
1:P:548:THR:HG22	4:2:49:GLN:N	1.84	0.92
1:P:796:GLY:HA3	3:R:40:ASN:HB3	1.52	0.92
4:W:325:MET:CE	4:Y:244:ASP:CG	2.37	0.92
1:D:278:GLN:HG2	1:D:317:GLU:HB2	1.52	0.92
1:D:612:GLN:NE2	1:D:627:GLY:HA3	1.83	0.92
1:G:735:GLY:C	1:G:743:ALA:HA	1.90	0.92
1:P:215:GLN:HA	1:P:340:ILE:HG23	0.95	0.92
4:1:203:THR:CG2	4:Z:288:ASP:CG	2.37	0.92
1:D:648:THR:HG21	1:D:651:ALA:HB2	1.50	0.91
1:D:831:TRP:HZ3	2:E:34:ILE:HG23	1.29	0.91
1:G:506:GLU:OE2	1:G:760:PHE:HB2	1.69	0.91
1:P:218:LEU:CB	1:P:221:GLN:CG	2.46	0.91
1:P:641:LYS:HE3	1:P:647:GLN:CG	2.00	0.91
1:P:649:VAL:CG1	1:P:649:VAL:C	2.38	0.91
1:G:537:GLU:O	4:V:349:LEU:HD13	0.74	0.91
1:J:537:GLU:O	4:W:349:LEU:HD13	0.73	0.91
1:J:795:ARG:NH2	3:L:116:GLU:OE1	2.03	0.91
1:J:819:ASN:CG	2:K:92:ASP:CB	2.38	0.91
1:P:278:GLN:HG2	1:P:317:GLU:HB2	1.52	0.91
1:P:793:ARG:NH2	3:R:147:MET:HE3	1.83	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:1:287:ILE:CG1	4:3:202:THR:HB	2.00	0.91
1:A:649:VAL:CG1	1:A:649:VAL:C	2.38	0.91
1:D:538:GLU:N	4:9:351:THR:H	1.68	0.91
1:D:642:LYS:CB	4:9:21:PHE:O	2.17	0.91
2:H:144:VAL:HG13	2:H:153:ILE:HG12	1.14	0.91
1:J:538:GLU:N	4:W:349:LEU:HD12	1.86	0.91
1:P:537:GLU:O	4:0:349:LEU:HD13	0.73	0.91
4:3:288:ASP:OD1	4:5:203:THR:HG23	1.70	0.91
1:A:218:LEU:HA	1:A:221:GLN:CG	2.01	0.91
1:A:544:LYS:HD2	4:8:147:ARG:HB3	1.53	0.91
1:A:823:PHE:CE1	2:B:160:GLY:CA	2.53	0.91
1:J:642:LYS:CB	4:W:21:PHE:O	2.17	0.91
1:P:218:LEU:HA	1:P:221:GLN:CG	2.01	0.91
1:P:829:TRP:CZ3	2:Q:84:PHE:CE1	2.59	0.91
4:0:288:ASP:CB	4:2:63:GLY:N	2.33	0.91
1:A:149:GLN:HB3	1:A:719:ASP:CA	1.99	0.91
1:A:505:MLY:HG3	1:A:741:LYS:NZ	1.84	0.91
1:A:797:PHE:CG	3:C:146:ILE:HG23	2.06	0.91
1:D:649:VAL:CG1	1:D:649:VAL:C	2.38	0.91
1:D:726:VAL:HG12	1:D:785:GLU:HG2	1.49	0.91
1:D:838:ILE:HD13	2:E:54:MET:HE3	1.46	0.91
1:J:278:GLN:HG2	1:J:317:GLU:HB2	1.52	0.91
1:J:829:TRP:CH2	2:K:87:LYS:CE	2.53	0.91
4:1:287:ILE:CG1	4:3:202:THR:CB	2.48	0.91
4:1:287:ILE:HG12	4:3:202:THR:HA	1.48	0.91
4:X:291:LYS:CD	4:Z:243:PRO:HB2	1.99	0.91
1:A:800:ARG:CB	3:C:149:VAL:HG22	2.00	0.91
1:A:836:PHE:CE1	2:B:159:HIS:CB	2.54	0.91
1:G:218:LEU:HA	1:G:221:GLN:CG	2.01	0.91
1:G:567:LYS:HZ1	4:X:92:ASN:HD22	1.18	0.91
1:G:638:GLY:HA3	4:V:341:ILE:O	1.70	0.91
1:J:641:LYS:HE3	1:J:647:GLN:CG	2.00	0.91
1:P:538:GLU:N	4:0:349:LEU:HD12	1.86	0.91
1:P:735:GLY:C	1:P:743:ALA:HA	1.90	0.91
4:1:287:ILE:HB	4:3:203:THR:N	1.82	0.91
1:A:735:GLY:O	1:A:743:ALA:CA	2.19	0.91
1:D:506:GLU:HG3	1:D:764:MLY:CE	2.01	0.91
1:D:831:TRP:CZ2	2:E:47:LEU:CA	2.52	0.91
1:G:410:ASN:OD1	4:V:334:GLU:C	2.09	0.91
1:G:538:GLU:N	4:V:351:THR:H	1.68	0.91
2:H:149:ASP:CG	2:H:150:TYR:H	1.73	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:813:ILE:CG2	2:K:128:PHE:HE1	1.81	0.91
3:L:62:ALA:O	3:L:63:ILE:CG1	2.19	0.91
1:A:537:GLU:O	4:8:349:LEU:HD13	0.74	0.91
1:D:712:PRO:HG2	1:D:771:LEU:CB	2.01	0.91
1:D:735:GLY:O	1:D:743:ALA:CA	2.19	0.91
1:D:795:ARG:HB2	3:F:35:ARG:NH1	1.85	0.91
1:G:544:LYS:HD2	4:V:147:ARG:HB3	1.53	0.91
1:G:649:VAL:CG1	1:G:649:VAL:C	2.38	0.91
1:P:213:LYS:HA	1:P:220:ASP:CG	1.90	0.91
1:A:557:GLU:H	4:V:48:GLY:HA2	1.32	0.91
1:A:735:GLY:C	1:A:743:ALA:HA	1.90	0.91
3:C:62:ALA:O	3:C:63:ILE:CG1	2.19	0.91
1:G:213:LYS:HA	1:G:220:ASP:CG	1.90	0.91
2:K:150:TYR:O	2:K:151:LYS:HB2	1.67	0.91
1:P:735:GLY:O	1:P:743:ALA:CA	2.19	0.91
1:P:786:ILE:CG2	1:P:787:ILE:CB	2.40	0.91
1:G:757:GLN:CG	1:G:776:GLU:CD	2.39	0.91
1:J:649:VAL:CG1	1:J:649:VAL:C	2.38	0.91
1:P:819:ASN:HD21	2:Q:92:ASP:HB2	1.25	0.91
1:P:834:LEU:CD1	2:Q:51:PHE:CE1	2.53	0.91
1:A:213:LYS:HA	1:A:220:ASP:CG	1.90	0.90
1:A:537:GLU:C	4:8:349:LEU:CD1	2.20	0.90
1:A:550:PHE:HA	4:V:46:GLY:CA	2.00	0.90
1:D:818:TYR:HB3	2:E:90:GLY:N	1.87	0.90
1:G:636:LYS:HD2	4:V:332:PRO:HB3	1.52	0.90
1:A:538:GLU:N	4:8:349:LEU:HD12	1.85	0.90
1:A:753:VAL:CG1	1:A:775:LEU:CD2	2.48	0.90
1:A:791:GLN:HE22	3:C:115:GLY:HA3	1.32	0.90
1:A:834:LEU:CD2	2:B:54:MET:HE2	1.90	0.90
1:D:218:LEU:HA	1:D:221:GLN:CG	2.01	0.90
1:D:553:MLY:HE2	4:W:45:VAL:HA	1.53	0.90
1:D:649:VAL:CG2	1:D:649:VAL:HG13	2.02	0.90
1:G:826:VAL:HG21	2:H:88:LEU:CD2	2.02	0.90
1:J:561:LYS:HE3	4:Y:48:GLY:HA3	1.51	0.90
1:J:735:GLY:O	1:J:743:ALA:CA	2.19	0.90
1:J:834:LEU:HD13	2:K:51:PHE:HE1	1.30	0.90
1:A:649:VAL:CB	1:A:649:VAL:CG2	2.50	0.90
1:A:795:ARG:CZ	3:C:43:ASN:OD1	2.14	0.90
1:G:538:GLU:N	4:V:349:LEU:HD12	1.87	0.90
1:G:649:VAL:CB	1:G:649:VAL:CG2	2.49	0.90
1:P:544:LYS:HD2	4:0:147:ARG:HB3	1.53	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:786:ILE:C	1:P:788:THR:OG1	2.10	0.90
1:A:538:GLU:N	4:8:351:THR:H	1.68	0.90
1:D:538:GLU:O	4:9:349:LEU:CG	2.20	0.90
1:D:831:TRP:CD1	2:E:51:PHE:HZ	1.88	0.90
1:J:544:LYS:HD2	4:W:147:ARG:HB3	1.53	0.90
1:J:829:TRP:CH2	2:K:87:LYS:NZ	2.38	0.90
1:A:791:GLN:NE2	3:C:115:GLY:HA3	1.87	0.90
1:D:534:SER:O	4:9:351:THR:HG23	1.13	0.90
1:D:544:LYS:HD2	4:9:147:ARG:HB3	1.53	0.90
1:D:721:LYS:CB	1:D:736:GLN:OE1	2.20	0.90
1:J:649:VAL:CG2	1:J:649:VAL:HG13	2.02	0.90
1:P:84:MLY:HD3	1:P:776:GLU:OE2	1.70	0.90
1:P:410:ASN:OD1	4:0:334:GLU:C	2.10	0.90
1:A:638:GLY:HA3	4:8:341:ILE:O	1.70	0.90
1:D:813:ILE:CG2	2:E:128:PHE:CE1	2.55	0.90
1:D:823:PHE:CE1	2:E:160:GLY:HA3	2.04	0.90
1:G:278:GLN:HG2	1:G:317:GLU:HB2	1.52	0.90
1:G:503:TYR:CZ	1:G:711:PHE:HD2	1.88	0.90
1:G:838:ILE:HD11	2:H:54:MET:HE1	1.49	0.90
1:P:206:LYS:CD	1:P:217:THR:CG2	2.16	0.90
1:P:630:ALA:O	4:0:25:ASP:CG	2.09	0.90
4:1:287:ILE:CD1	4:3:203:THR:N	2.34	0.90
1:D:641:LYS:HE3	1:D:647:GLN:CG	2.00	0.90
1:D:797:PHE:HE1	3:F:146:ILE:CA	1.85	0.90
1:D:815:CYS:SG	2:E:92:ASP:CG	2.50	0.90
1:J:218:LEU:HA	1:J:221:GLN:CG	2.00	0.90
1:P:649:VAL:CG2	1:P:649:VAL:HG13	2.02	0.90
1:P:813:ILE:CG2	2:Q:128:PHE:CE1	2.55	0.90
1:A:149:GLN:HG2	1:A:719:ASP:H	1.35	0.90
1:A:278:GLN:HG2	1:A:317:GLU:HB2	1.52	0.90
1:D:735:GLY:C	1:D:743:ALA:HA	1.91	0.90
3:F:62:ALA:O	3:F:63:ILE:CG1	2.19	0.90
1:J:149:GLN:OE1	1:J:763:THR:HG21	1.72	0.90
1:J:410:ASN:OD1	4:W:334:GLU:C	2.10	0.90
1:P:733:PRO:CB	3:R:93:VAL:HG11	2.01	0.90
1:P:818:TYR:OH	2:Q:127:ARG:NH2	2.03	0.90
1:P:821:ARG:HH21	2:Q:127:ARG:HG2	1.37	0.90
3:R:62:ALA:O	3:R:63:ILE:HG12	1.71	0.90
1:A:836:PHE:HE1	2:B:159:HIS:CB	1.84	0.90
1:D:508:ILE:HA	1:D:761:GLY:HA3	1.54	0.90
1:D:550:PHE:CA	4:W:46:GLY:HA3	2.02	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:137:TRP:HA	2:E:145:ALA:HB2	1.54	0.90
1:J:530:MET:N	4:W:354:GLN:HB3	1.87	0.90
1:J:735:GLY:C	1:J:743:ALA:HA	1.90	0.90
4:V:324:THR:CG2	4:X:247:VAL:H	1.84	0.90
1:A:149:GLN:HB3	1:A:718:ALA:C	1.93	0.90
1:A:754:ASP:OD2	1:A:774:LEU:HD23	1.71	0.90
1:D:538:GLU:N	4:9:349:LEU:HD12	1.86	0.90
1:D:819:ASN:OD1	2:E:91:ALA:CA	2.13	0.90
1:D:830:PRO:HG2	2:E:67:MET:HE1	1.51	0.90
3:F:62:ALA:O	3:F:63:ILE:HG12	1.71	0.90
1:G:629:GLU:HG2	1:G:643:GLY:O	1.72	0.90
1:G:721:LYS:CB	1:G:736:GLN:OE1	2.20	0.90
1:G:735:GLY:O	1:G:743:ALA:CA	2.19	0.90
1:G:795:ARG:CZ	3:I:116:GLU:CG	2.47	0.90
3:I:24:LYS:HB3	3:I:63:ILE:O	1.72	0.90
1:J:97:LEU:CD2	1:J:712:PRO:HB3	2.01	0.90
1:J:538:GLU:O	4:W:349:LEU:CG	2.20	0.90
1:P:538:GLU:O	4:0:349:LEU:CG	2.20	0.90
4:1:287:ILE:HG21	4:3:202:THR:CB	2.02	0.90
1:A:410:ASN:OD1	4:8:334:GLU:C	2.11	0.89
1:A:502:GLU:CG	1:A:761:GLY:N	2.33	0.89
1:A:629:GLU:HG2	1:A:643:GLY:O	1.72	0.89
3:C:62:ALA:O	3:C:63:ILE:HG12	1.71	0.89
1:D:553:MLY:CG	4:W:44:MET:O	2.20	0.89
1:P:530:MET:N	4:0:354:GLN:HB3	1.87	0.89
2:Q:144:VAL:HG13	2:Q:153:ILE:HD11	1.22	0.89
3:R:62:ALA:O	3:R:63:ILE:CG1	2.19	0.89
1:G:94:MET:C	1:G:713:SER:HB3	1.92	0.89
2:H:137:TRP:HA	2:H:145:ALA:HB2	1.54	0.89
3:I:62:ALA:O	3:I:63:ILE:HG12	1.71	0.89
1:J:635:GLY:CA	4:W:341:ILE:HD13	2.02	0.89
1:P:649:VAL:CB	1:P:649:VAL:CG2	2.49	0.89
1:P:721:LYS:CB	1:P:736:GLN:OE1	2.20	0.89
1:P:736:GLN:HA	1:P:743:ALA:HB2	1.51	0.89
1:D:638:GLY:HA3	4:9:341:ILE:O	1.70	0.89
1:D:649:VAL:CB	1:D:649:VAL:CG2	2.49	0.89
1:G:829:TRP:CZ2	2:H:87:LYS:HE2	2.07	0.89
1:J:756:THR:CG2	1:J:776:GLU:CB	2.45	0.89
1:P:831:TRP:CH2	2:Q:47:LEU:HD23	2.03	0.89
1:P:836:PHE:CE2	2:Q:160:GLY:N	2.33	0.89
4:0:205:GLU:OE2	4:Y:287:ILE:HG22	1.70	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:629:GLU:HG2	1:D:643:GLY:O	1.72	0.89
1:G:553:MLY:NZ	4:X:45:VAL:HG11	1.88	0.89
1:G:792:ALA:CB	3:I:42:THR:HG23	2.02	0.89
1:G:795:ARG:NE	3:I:116:GLU:CB	2.12	0.89
3:I:62:ALA:O	3:I:63:ILE:CG1	2.19	0.89
1:P:534:SER:HA	4:0:350:SER:O	1.71	0.89
1:P:635:GLY:CA	4:0:341:ILE:HD13	2.02	0.89
2:B:149:ASP:CG	2:B:150:TYR:H	1.73	0.89
1:D:410:ASN:OD1	4:9:334:GLU:C	2.10	0.89
1:D:630:ALA:O	4:9:25:ASP:CG	2.09	0.89
1:D:635:GLY:CA	4:9:341:ILE:HD13	2.03	0.89
2:E:121:LEU:CA	2:E:128:PHE:CB	2.46	0.89
1:G:215:GLN:H	1:G:340:ILE:CG1	1.72	0.89
1:J:534:SER:HA	4:W:350:SER:O	1.71	0.89
1:J:649:VAL:CB	1:J:649:VAL:CG2	2.49	0.89
1:J:721:LYS:CB	1:J:736:GLN:OE1	2.20	0.89
1:D:823:PHE:HE1	2:E:160:GLY:HA3	1.33	0.89
1:G:538:GLU:O	4:V:349:LEU:CG	2.20	0.89
1:J:754:ASP:HA	1:J:780:ASP:OD2	1.72	0.89
4:1:203:THR:CB	4:Z:287:ILE:HD13	2.01	0.89
1:A:501:GLU:CG	1:A:762:HIS:ND1	2.33	0.89
1:A:530:MET:N	4:8:354:GLN:HB3	1.87	0.89
3:C:24:LYS:HB3	3:C:63:ILE:O	1.72	0.89
1:D:534:SER:HA	4:9:350:SER:O	1.71	0.89
1:D:641:LYS:HD2	4:9:348:SER:CB	2.02	0.89
1:J:630:ALA:O	4:W:25:ASP:CG	2.09	0.89
1:P:797:PHE:CZ	3:R:126:LEU:HD22	2.07	0.89
1:A:534:SER:HA	4:8:350:SER:O	1.71	0.89
1:G:599:ASN:OD1	1:G:649:VAL:HB	1.72	0.89
2:K:137:TRP:HA	2:K:145:ALA:HB2	1.53	0.89
3:L:24:LYS:HB3	3:L:63:ILE:O	1.72	0.89
1:A:538:GLU:O	4:8:349:LEU:CG	2.20	0.89
1:A:630:ALA:O	4:8:25:ASP:CG	2.10	0.89
1:A:813:ILE:HG22	2:B:127:ARG:HD2	0.90	0.89
1:D:530:MET:N	4:9:354:GLN:HB3	1.87	0.89
1:A:553:MLY:CG	4:V:44:MET:O	2.20	0.89
2:B:137:TRP:HA	2:B:145:ALA:HB2	1.54	0.89
1:D:800:ARG:O	3:F:149:VAL:HG21	1.72	0.89
1:D:834:LEU:CD1	2:E:54:MET:CB	2.50	0.89
1:J:84:MLY:HH21	1:J:720:PHE:HA	0.90	0.89
1:J:641:LYS:HD2	4:W:348:SER:CB	2.02	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:797:PHE:CE1	3:R:146:ILE:CG1	2.56	0.89
4:1:322:PRO:HB3	4:3:244:ASP:CG	1.93	0.89
1:G:530:MET:N	4:V:354:GLN:HB3	1.88	0.88
1:G:754:ASP:CA	1:G:776:GLU:OE1	2.20	0.88
1:P:84:MLY:HH22	1:P:723:ARG:CB	2.03	0.88
1:P:795:ARG:NE	3:R:116:GLU:OE2	2.06	0.88
3:R:24:LYS:HB3	3:R:63:ILE:O	1.72	0.88
4:X:324:THR:CB	4:Z:246:GLN:HA	2.03	0.88
1:D:215:GLN:H	1:D:340:ILE:HG12	1.06	0.88
1:D:541:MET:CB	4:9:143:TYR:OH	2.20	0.88
1:J:629:GLU:HG2	1:J:643:GLY:O	1.72	0.88
1:J:831:TRP:CZ2	2:K:47:LEU:CD2	2.55	0.88
1:J:838:ILE:CD1	2:K:54:MET:HE3	1.94	0.88
1:P:638:GLY:HA3	4:0:341:ILE:O	1.70	0.88
1:A:550:PHE:CA	4:V:46:GLY:HA3	2.02	0.88
1:G:534:SER:HA	4:V:350:SER:O	1.71	0.88
1:G:541:MET:CB	4:V:143:TYR:OH	2.21	0.88
1:G:542:PHE:HA	4:V:143:TYR:HE1	1.34	0.88
1:J:215:GLN:H	1:J:340:ILE:CG1	1.72	0.88
1:J:638:GLY:HA3	4:W:341:ILE:O	1.70	0.88
1:J:836:PHE:HE1	2:K:159:HIS:HA	1.31	0.88
2:K:121:LEU:CB	2:K:128:PHE:HB3	1.69	0.88
3:L:62:ALA:O	3:L:63:ILE:HG12	1.71	0.88
2:E:163:ALA:O	2:K:22:THR:N	2.04	0.88
1:G:148:ARG:HH21	1:G:764:MLY:HH21	1.39	0.88
1:G:642:LYS:HG2	4:V:22:ALA:CA	2.03	0.88
1:P:629:GLU:HG2	1:P:643:GLY:O	1.72	0.88
1:A:721:LYS:CB	1:A:736:GLN:OE1	2.20	0.88
1:A:735:GLY:C	1:A:743:ALA:HB2	1.82	0.88
1:D:599:ASN:OD1	1:D:649:VAL:HB	1.73	0.88
1:J:215:GLN:H	1:J:340:ILE:HG12	1.05	0.88
1:J:817:GLN:CD	2:K:127:ARG:CD	2.42	0.88
1:P:641:LYS:HD2	4:0:348:SER:CB	2.03	0.88
1:P:642:LYS:HG2	4:0:22:ALA:CA	2.03	0.88
1:P:793:ARG:NH2	3:R:147:MET:HE1	1.84	0.88
1:A:541:MET:CB	4:8:143:TYR:OH	2.20	0.88
1:A:642:LYS:HG2	4:8:22:ALA:CA	2.04	0.88
2:B:137:TRP:HA	2:B:145:ALA:CB	2.04	0.88
1:D:814:PHE:HA	2:E:127:ARG:HH11	1.10	0.88
1:D:831:TRP:CD1	2:E:67:MET:SD	2.67	0.88
3:F:24:LYS:HB3	3:F:63:ILE:O	1.72	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:84:MLY:HB3	1:G:723:ARG:CZ	2.03	0.88
1:G:641:LYS:CD	1:G:647:GLN:OE1	2.17	0.88
1:G:649:VAL:CG2	1:G:649:VAL:HG13	2.02	0.88
1:J:642:LYS:HG2	4:W:22:ALA:CA	2.03	0.88
1:P:642:LYS:CG	4:0:21:PHE:O	2.22	0.88
2:Q:137:TRP:HA	2:Q:145:ALA:HB2	1.53	0.88
1:A:793:ARG:HH21	3:C:147:MET:CE	1.85	0.88
1:D:641:LYS:CD	1:D:647:GLN:OE1	2.17	0.88
1:D:726:VAL:HG12	1:D:785:GLU:CG	2.02	0.88
1:D:798:LEU:HD13	3:F:126:LEU:HD11	1.54	0.88
1:J:642:LYS:CG	4:W:21:PHE:O	2.22	0.88
1:P:215:GLN:H	1:P:340:ILE:HG12	1.05	0.88
4:0:288:ASP:CG	4:2:63:GLY:CA	2.42	0.88
1:G:642:LYS:CG	4:V:21:PHE:O	2.22	0.88
1:G:817:GLN:NE2	2:H:127:ARG:HB2	1.88	0.88
1:G:818:TYR:CE1	2:H:127:ARG:NH1	2.41	0.88
1:J:798:LEU:CD1	3:L:126:LEU:CD1	2.28	0.88
1:A:97:LEU:HD23	1:A:712:PRO:CB	1.99	0.88
1:A:498:LEU:HD23	1:A:764:MLY:HH22	1.55	0.88
1:A:641:LYS:HD2	4:8:348:SER:CB	2.02	0.88
1:A:795:ARG:NE	3:C:116:GLU:OE2	2.07	0.88
1:D:635:GLY:HA2	4:9:334:GLU:CG	2.03	0.88
1:G:831:TRP:NE1	2:H:67:MET:HB3	1.88	0.88
3:R:139:TYR:HA	3:R:142:PHE:HB3	1.56	0.88
1:A:797:PHE:CD1	3:C:146:ILE:HG23	2.09	0.87
1:D:646:PHE:CE2	1:D:652:LEU:CD1	2.58	0.87
1:D:708:ARG:C	1:D:710:GLY:N	2.27	0.87
1:G:84:MLY:HG2	1:G:723:ARG:HD2	0.89	0.87
1:G:534:SER:O	4:V:351:THR:HG23	1.12	0.87
1:G:635:GLY:CA	4:V:341:ILE:HD13	2.03	0.87
1:J:756:THR:HG22	1:J:776:GLU:HB3	1.56	0.87
1:P:792:ALA:CB	3:R:81:GLN:NE2	2.36	0.87
1:A:553:MLY:HE2	4:V:45:VAL:HA	1.53	0.87
1:D:636:LYS:H	4:9:334:GLU:CD	1.77	0.87
1:G:646:PHE:CE2	1:G:652:LEU:CD1	2.58	0.87
1:J:541:MET:CB	4:W:143:TYR:OH	2.20	0.87
1:P:541:MET:CB	4:0:143:TYR:OH	2.20	0.87
1:P:831:TRP:HE1	2:Q:67:MET:HB3	1.37	0.87
4:V:286:ASP:OD1	4:X:203:THR:HG22	1.74	0.87
4:X:288:ASP:N	4:Z:202:THR:OG1	2.03	0.87
1:A:72:VAL:CG1	1:A:76:GLN:HB3	2.05	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:95:THR:HG1	1:A:769:ALA:C	1.72	0.87
1:D:732:ILE:CD1	1:D:782:MLY:HH11	2.04	0.87
3:F:139:TYR:HA	3:F:142:PHE:HB3	1.56	0.87
2:H:137:TRP:HA	2:H:145:ALA:CB	2.04	0.87
1:J:756:THR:CG2	1:J:776:GLU:CD	2.42	0.87
1:A:542:PHE:HA	4:8:143:TYR:HE1	1.34	0.87
1:D:735:GLY:C	1:D:743:ALA:HB2	1.82	0.87
2:E:137:TRP:HA	2:E:145:ALA:CB	2.04	0.87
3:L:139:TYR:HA	3:L:142:PHE:HB3	1.56	0.87
1:P:646:PHE:CE2	1:P:652:LEU:CD1	2.58	0.87
1:P:831:TRP:HH2	2:Q:47:LEU:HD23	1.35	0.87
2:Q:137:TRP:HA	2:Q:145:ALA:CB	2.04	0.87
4:3:287:ILE:CG2	4:5:204:ALA:H	1.87	0.87
4:9:322:PRO:HB2	4:W:244:ASP:CG	1.94	0.87
4:X:291:LYS:CD	4:Z:243:PRO:C	2.41	0.87
1:A:649:VAL:HG13	1:A:649:VAL:CG2	2.02	0.87
1:D:642:LYS:CG	4:9:21:PHE:O	2.22	0.87
1:G:769:ALA:O	1:G:773:GLY:HA3	1.73	0.87
1:J:797:PHE:CZ	3:L:146:ILE:HG23	2.07	0.87
1:P:636:LYS:H	4:0:334:GLU:CD	1.78	0.87
4:8:322:PRO:HB2	4:V:244:ASP:CG	1.94	0.87
1:A:798:LEU:HD11	3:C:126:LEU:CG	2.04	0.87
1:A:798:LEU:CD2	3:C:126:LEU:HD11	2.04	0.87
1:D:507:GLY:CA	1:D:762:HIS:CG	2.57	0.87
2:E:162:ASP:O	2:K:21:GLU:HB2	1.73	0.87
1:A:642:LYS:CG	4:8:21:PHE:O	2.22	0.87
1:A:754:ASP:OD2	1:A:778:MET:HE3	1.70	0.87
1:D:642:LYS:HG2	4:9:22:ALA:CA	2.03	0.87
1:D:649:VAL:CG1	1:D:649:VAL:CA	2.53	0.87
1:D:834:LEU:HD21	2:E:54:MET:CE	2.04	0.87
1:G:649:VAL:CG1	1:G:649:VAL:CA	2.53	0.87
1:J:646:PHE:CE2	1:J:652:LEU:CD1	2.58	0.87
1:P:72:VAL:CG1	1:P:76:GLN:HB3	2.05	0.87
4:1:324:THR:CG2	4:3:244:ASP:HA	2.05	0.87
4:7:322:PRO:HB2	4:9:244:ASP:CG	1.94	0.87
1:A:635:GLY:CA	4:8:341:ILE:HD13	2.02	0.87
1:A:649:VAL:CG1	1:A:649:VAL:CA	2.53	0.87
1:A:754:ASP:OD2	1:A:778:MET:HE1	1.70	0.87
1:G:832:MET:SD	2:H:84:PHE:CE2	2.66	0.87
1:J:567:LYS:HZ3	4:Y:92:ASN:HD22	1.19	0.87
1:J:635:GLY:HA2	4:W:334:GLU:CG	2.03	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:641:LYS:CD	1:J:647:GLN:OE1	2.18	0.87
1:P:534:SER:O	4:0:351:THR:HG23	1.13	0.87
4:1:322:PRO:CB	4:3:244:ASP:HB3	2.04	0.87
1:A:505:MLY:HB2	1:A:761:GLY:HA2	1.55	0.87
1:A:641:LYS:CD	4:8:348:SER:HB2	1.92	0.87
1:G:754:ASP:N	1:G:776:GLU:OE1	2.08	0.87
1:J:636:LYS:H	4:W:334:GLU:CD	1.78	0.87
4:1:202:THR:CA	4:Z:287:ILE:CG1	2.52	0.87
1:A:815:CYS:SG	2:B:92:ASP:HB2	2.14	0.86
1:J:755:HIS:HA	1:J:758:TYR:CE1	2.10	0.86
1:P:641:LYS:CD	1:P:647:GLN:OE1	2.17	0.86
1:A:502:GLU:CA	1:A:761:GLY:CA	2.50	0.86
1:A:530:MET:HG2	4:8:354:GLN:CG	2.05	0.86
1:D:530:MET:HG2	4:9:354:GLN:CG	2.05	0.86
1:G:72:VAL:CG1	1:G:76:GLN:HB3	2.05	0.86
1:J:649:VAL:CG1	1:J:649:VAL:CA	2.53	0.86
4:W:286:ASP:CG	4:Y:203:THR:HG22	1.96	0.86
1:A:215:GLN:H	1:A:340:ILE:HG12	1.06	0.86
1:A:636:LYS:H	4:8:334:GLU:CD	1.77	0.86
1:G:505:MLY:HH21	1:G:762:HIS:CE1	1.40	0.86
1:G:530:MET:HG2	4:V:354:GLN:CG	2.05	0.86
1:J:72:VAL:CG1	1:J:76:GLN:HB3	2.05	0.86
1:J:557:GLU:HA	4:Y:48:GLY:N	1.90	0.86
1:J:836:PHE:CE1	2:K:159:HIS:CA	2.55	0.86
2:K:149:ASP:CG	2:K:150:TYR:H	1.73	0.86
1:P:649:VAL:CG1	1:P:649:VAL:CA	2.53	0.86
1:P:755:HIS:HA	1:P:758:TYR:CE1	2.10	0.86
1:D:646:PHE:CD2	1:D:652:LEU:HD11	2.09	0.86
1:D:755:HIS:HA	1:D:758:TYR:CE1	2.10	0.86
1:D:834:LEU:CG	2:E:54:MET:CG	2.38	0.86
1:G:636:LYS:H	4:V:334:GLU:CD	1.78	0.86
1:G:641:LYS:HD2	4:V:348:SER:CB	2.03	0.86
1:P:84:MLY:CG	1:P:723:ARG:NE	2.36	0.86
1:P:97:LEU:CD2	1:P:712:PRO:HB2	2.06	0.86
4:1:324:THR:HG23	4:3:244:ASP:HA	1.55	0.86
1:A:501:GLU:HG2	1:A:762:HIS:HD1	0.77	0.86
1:D:310:TYR:CZ	1:D:320:ILE:HD11	2.11	0.86
1:D:819:ASN:OD1	2:E:91:ALA:HA	1.36	0.86
1:G:107:MLY:HB3	1:G:686:MET:HE2	1.58	0.86
1:G:646:PHE:CD2	1:G:652:LEU:HD11	2.09	0.86
1:G:798:LEU:HD23	3:I:118:MET:HB3	1.56	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:801:VAL:HG21	3:I:126:LEU:HD21	1.56	0.86
1:J:530:MET:HG2	4:W:354:GLN:CG	2.06	0.86
1:P:530:MET:HG2	4:0:354:GLN:CG	2.06	0.86
4:X:287:ILE:CG2	4:Z:201:VAL:HG23	2.06	0.86
1:A:97:LEU:HD22	1:A:712:PRO:CB	2.05	0.86
1:P:646:PHE:CD2	1:P:652:LEU:HD11	2.09	0.86
1:D:206:LYS:HD3	1:D:217:THR:CB	2.06	0.86
1:G:84:MLY:HA	1:G:723:ARG:CZ	2.06	0.86
1:G:93:MET:CE	1:G:764:MLY:CD	2.52	0.86
1:G:206:LYS:HD3	1:G:217:THR:CB	2.06	0.86
1:G:735:GLY:C	1:G:743:ALA:HB1	1.84	0.86
1:G:755:HIS:HA	1:G:758:TYR:CE1	2.10	0.86
2:K:137:TRP:HA	2:K:145:ALA:CB	2.04	0.86
1:P:817:GLN:CD	2:Q:127:ARG:CD	2.43	0.86
2:Q:149:ASP:CG	2:Q:150:TYR:H	1.73	0.86
4:1:287:ILE:HB	4:3:203:THR:CG2	2.04	0.86
4:8:287:ILE:CG2	4:V:205:GLU:HG2	2.05	0.86
1:A:641:LYS:CD	1:A:647:GLN:OE1	2.17	0.86
1:D:72:VAL:CG1	1:D:76:GLN:HB3	2.05	0.86
1:D:735:GLY:C	1:D:743:ALA:HB1	1.84	0.86
2:H:121:LEU:CA	2:H:128:PHE:CB	2.46	0.86
1:J:310:TYR:CZ	1:J:320:ILE:HD11	2.11	0.86
1:P:635:GLY:HA2	4:0:334:GLU:CG	2.03	0.86
1:D:724:TYR:HA	1:D:782:MLY:CD	2.04	0.86
1:G:506:GLU:CD	1:G:760:PHE:O	2.15	0.86
2:Q:117:LEU:CG	2:Q:147:ASN:CG	2.44	0.86
1:A:735:GLY:C	1:A:743:ALA:HB1	1.84	0.86
1:A:755:HIS:HA	1:A:758:TYR:CE1	2.10	0.86
1:A:797:PHE:CE1	3:C:146:ILE:O	2.28	0.86
1:D:831:TRP:HZ2	2:E:47:LEU:HB3	1.39	0.86
1:G:552:ASN:O	4:X:47:MET:HE1	1.73	0.86
1:G:798:LEU:CD2	3:I:118:MET:HB3	2.05	0.86
2:Q:121:LEU:CA	2:Q:128:PHE:CB	2.46	0.86
1:A:538:GLU:N	4:8:351:THR:N	2.24	0.85
2:B:117:LEU:CG	2:B:147:ASN:CG	2.44	0.85
1:G:553:MLY:HG3	4:X:45:VAL:C	1.96	0.85
1:G:567:LYS:HZ1	4:X:92:ASN:ND2	1.66	0.85
1:G:725:ARG:CZ	1:G:733:PRO:HB3	2.05	0.85
1:G:818:TYR:CZ	2:H:127:ARG:CZ	2.55	0.85
1:J:206:LYS:HD3	1:J:217:THR:CB	2.06	0.85
1:J:599:ASN:OD1	1:J:649:VAL:HB	1.73	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:646:PHE:CD2	1:J:652:LEU:HD11	2.10	0.85
1:A:502:GLU:CG	1:A:764:MLY:O	2.24	0.85
1:A:599:ASN:OD1	1:A:649:VAL:CA	2.25	0.85
3:C:139:TYR:HA	3:C:142:PHE:HB3	1.56	0.85
1:G:204:GLU:H	1:G:207:LYS:HE3	1.42	0.85
4:1:244:ASP:HB3	4:Z:322:PRO:CB	2.05	0.85
4:1:322:PRO:HB2	4:3:244:ASP:HB3	1.56	0.85
1:A:836:PHE:HZ	2:B:160:GLY:N	1.55	0.85
2:E:117:LEU:CG	2:E:147:ASN:CG	2.44	0.85
1:G:736:GLN:HA	1:G:743:ALA:HB2	1.51	0.85
1:A:93:MET:HG2	1:A:715:VAL:CG2	2.06	0.85
1:G:792:ALA:CB	3:I:42:THR:HA	2.06	0.85
1:J:410:ASN:OD1	4:W:334:GLU:CA	2.24	0.85
1:J:732:ILE:HG23	1:J:747:LEU:HB2	1.57	0.85
1:J:792:ALA:CB	3:L:42:THR:N	2.38	0.85
1:A:792:ALA:HB2	3:C:42:THR:HG22	0.87	0.85
1:J:630:ALA:C	4:W:25:ASP:OD2	2.15	0.85
1:J:725:ARG:CZ	1:J:733:PRO:HB3	2.06	0.85
1:P:204:GLU:H	1:P:207:LYS:HE3	1.42	0.85
1:P:792:ALA:CB	3:R:81:GLN:HE22	1.89	0.85
1:A:204:GLU:H	1:A:207:LYS:HE3	1.42	0.85
1:A:795:ARG:HB2	3:C:35:ARG:NH1	1.90	0.85
1:G:202:SER:HA	1:G:207:LYS:HE2	0.85	0.85
1:G:599:ASN:OD1	1:G:649:VAL:CA	2.25	0.85
1:P:834:LEU:CD1	2:Q:51:PHE:HE1	1.88	0.85
4:0:243:PRO:CA	4:Y:291:LYS:CE	2.52	0.85
1:A:410:ASN:OD1	4:8:334:GLU:CA	2.24	0.85
1:A:791:GLN:HE22	3:C:115:GLY:C	1.79	0.85
1:D:630:ALA:C	4:9:25:ASP:OD2	2.15	0.85
1:D:834:LEU:HD12	2:E:54:MET:HG3	1.55	0.85
1:G:215:GLN:H	1:G:340:ILE:HG12	1.06	0.85
1:J:640:LYS:CB	1:J:645:SER:OG	2.25	0.85
1:J:797:PHE:CZ	3:L:146:ILE:HD13	2.12	0.85
1:J:831:TRP:CZ2	2:K:47:LEU:HD21	2.12	0.85
1:P:310:TYR:CZ	1:P:320:ILE:HD11	2.11	0.85
1:P:826:VAL:HG21	2:Q:88:LEU:CD2	2.07	0.85
1:A:202:SER:HA	1:A:207:LYS:HE2	0.85	0.85
1:D:599:ASN:OD1	1:D:649:VAL:CA	2.25	0.85
2:E:163:ALA:CA	2:K:21:GLU:HB3	2.05	0.85
1:G:84:MLY:CB	1:G:723:ARG:CD	2.52	0.85
1:G:553:MLY:HH12	4:X:45:VAL:HG11	1.58	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:117:LEU:CG	2:H:147:ASN:CG	2.45	0.85
1:J:819:ASN:CG	2:K:90:GLY:O	2.14	0.85
1:P:793:ARG:HB2	3:R:87:PHE:CZ	2.11	0.85
1:A:206:LYS:HD3	1:A:217:THR:CB	2.06	0.85
1:A:630:ALA:C	4:8:25:ASP:OD2	2.15	0.85
1:D:410:ASN:OD1	4:9:334:GLU:CA	2.24	0.85
1:D:791:GLN:OE1	3:F:116:GLU:CG	2.20	0.85
1:P:206:LYS:HD3	1:P:217:THR:CB	2.06	0.85
1:P:800:ARG:O	3:R:149:VAL:HG21	1.77	0.85
4:9:287:ILE:CG2	4:W:205:GLU:HG2	2.05	0.85
1:A:797:PHE:CZ	3:C:146:ILE:HA	2.11	0.85
1:D:204:GLU:H	1:D:207:LYS:HE3	1.42	0.85
1:D:418:THR:HB	1:D:421:GLU:HG3	1.59	0.85
1:G:310:TYR:CZ	1:G:320:ILE:HD11	2.11	0.85
1:G:410:ASN:OD1	4:V:334:GLU:CA	2.24	0.85
1:P:732:ILE:HG23	1:P:747:LEU:HB2	1.57	0.85
1:G:831:TRP:CZ2	2:H:47:LEU:HD22	2.10	0.84
1:J:529:PRO:CB	4:W:353:GLN:OE1	2.25	0.84
1:J:543:PRO:HG3	4:W:143:TYR:O	1.77	0.84
2:K:117:LEU:CG	2:K:147:ASN:CG	2.44	0.84
2:K:121:LEU:CA	2:K:128:PHE:CB	2.46	0.84
1:P:538:GLU:N	4:0:351:THR:N	2.24	0.84
1:A:640:LYS:C	4:8:23:GLY:O	2.15	0.84
1:A:707:CYS:CA	1:A:714:ARG:CZ	2.54	0.84
1:A:795:ARG:HG2	3:C:118:MET:CE	2.07	0.84
1:P:410:ASN:OD1	4:0:334:GLU:CA	2.24	0.84
1:P:418:THR:HB	1:P:421:GLU:HG3	1.59	0.84
1:P:792:ALA:HA	3:R:42:THR:CG2	2.05	0.84
4:1:324:THR:OG1	4:3:244:ASP:HA	1.76	0.84
1:A:646:PHE:CD2	1:A:652:LEU:HD11	2.10	0.84
1:D:202:SER:HA	1:D:207:LYS:HE2	0.85	0.84
1:G:410:ASN:ND2	4:V:336:LYS:HG2	1.92	0.84
1:J:418:THR:HB	1:J:421:GLU:HG3	1.60	0.84
1:J:640:LYS:C	4:W:23:GLY:O	2.15	0.84
1:J:817:GLN:HB3	2:K:127:ARG:HD2	1.38	0.84
4:0:167:GLU:HB3	4:2:41:GLN:O	1.76	0.84
4:2:287:ILE:HD13	4:4:203:THR:CB	1.97	0.84
1:A:310:TYR:CZ	1:A:320:ILE:HD11	2.11	0.84
1:D:640:LYS:C	4:9:23:GLY:O	2.15	0.84
1:D:799:MET:CE	3:F:32:ASP:CB	2.43	0.84
1:J:410:ASN:ND2	4:W:336:LYS:HG2	1.92	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:756:THR:CG2	1:J:776:GLU:OE1	2.25	0.84
1:J:756:THR:O	1:J:776:GLU:OE1	1.93	0.84
1:P:599:ASN:OD1	1:P:649:VAL:CA	2.25	0.84
1:P:630:ALA:C	4:0:25:ASP:OD2	2.15	0.84
1:P:796:GLY:HA3	3:R:40:ASN:CB	2.07	0.84
4:0:205:GLU:HG3	4:Y:287:ILE:CD1	2.07	0.84
1:A:725:ARG:CZ	1:A:733:PRO:HB3	2.05	0.84
1:D:529:PRO:CB	4:9:353:GLN:OE1	2.25	0.84
1:D:725:ARG:CD	1:D:733:PRO:HB3	2.07	0.84
1:G:538:GLU:N	4:V:351:THR:N	2.24	0.84
1:J:84:MLY:CH1	1:J:720:PHE:HD1	1.81	0.84
1:J:710:GLY:O	1:J:772:LEU:HB2	1.77	0.84
1:P:84:MLY:CE	1:P:724:TYR:OH	2.17	0.84
4:7:287:ILE:CG2	4:9:205:GLU:HG2	2.05	0.84
1:D:798:LEU:CD1	3:F:126:LEU:CD1	2.08	0.84
1:D:815:CYS:SG	2:E:92:ASP:OD1	2.35	0.84
1:D:831:TRP:CZ2	2:E:47:LEU:CB	2.59	0.84
1:G:648:THR:CG2	1:G:651:ALA:HB2	2.08	0.84
1:J:202:SER:HA	1:J:207:LYS:HE2	0.85	0.84
1:J:710:GLY:CA	1:J:772:LEU:CD2	2.30	0.84
1:P:640:LYS:C	4:0:23:GLY:O	2.15	0.84
1:P:640:LYS:CB	1:P:645:SER:OG	2.25	0.84
4:W:291:LYS:HD2	4:Y:243:PRO:CB	2.07	0.84
1:A:149:GLN:NE2	1:A:718:ALA:HB2	1.90	0.84
1:A:410:ASN:ND2	4:8:336:LYS:HG2	1.93	0.84
1:D:557:GLU:H	4:W:48:GLY:HA3	1.28	0.84
3:I:139:TYR:HA	3:I:142:PHE:HB3	1.56	0.84
1:J:768:MLY:CH1	1:J:772:LEU:CD1	2.19	0.84
1:P:629:GLU:CG	1:P:643:GLY:O	2.26	0.84
1:A:542:PHE:CA	4:8:143:TYR:CE1	2.61	0.84
1:A:635:GLY:HA2	4:8:334:GLU:CG	2.03	0.84
1:D:649:VAL:HG12	1:D:649:VAL:C	1.98	0.84
1:D:767:PHE:O	1:D:771:LEU:CD1	2.25	0.84
1:G:754:ASP:HB3	1:G:776:GLU:CD	1.77	0.84
1:J:629:GLU:CG	1:J:643:GLY:O	2.26	0.84
1:J:710:GLY:HA2	1:J:772:LEU:HD22	0.86	0.84
1:J:725:ARG:CD	1:J:733:PRO:HB3	2.07	0.84
1:P:543:PRO:HG3	4:0:143:TYR:O	1.77	0.84
1:P:734:GLU:HG3	3:R:93:VAL:HG22	1.56	0.84
4:7:237:GLU:HA	4:7:251:GLY:HA2	1.60	0.84
4:9:237:GLU:HA	4:9:251:GLY:HA2	1.60	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X:286:ASP:OD1	4:Z:202:THR:OG1	1.95	0.84
1:D:640:LYS:CB	1:D:645:SER:OG	2.25	0.84
1:D:831:TRP:CE2	2:E:51:PHE:CZ	2.66	0.84
2:E:141:PRO:CB	2:E:142:PRO:CD	2.56	0.84
1:J:534:SER:O	4:W:351:THR:HG23	1.13	0.84
1:J:599:ASN:OD1	1:J:649:VAL:CA	2.25	0.84
1:P:797:PHE:HE2	3:R:126:LEU:CD1	1.91	0.84
1:P:800:ARG:HD3	3:R:149:VAL:C	1.98	0.84
1:A:149:GLN:CA	1:A:719:ASP:OD1	2.26	0.84
1:A:499:GLU:OE1	1:A:766:PHE:CE2	2.30	0.84
1:A:725:ARG:CD	1:A:733:PRO:HB3	2.08	0.84
1:D:629:GLU:CG	1:D:643:GLY:O	2.26	0.84
1:D:732:ILE:HG23	1:D:747:LEU:HB2	1.57	0.84
1:G:725:ARG:CD	1:G:733:PRO:HB3	2.07	0.84
1:J:204:GLU:H	1:J:207:LYS:HE3	1.42	0.84
4:2:237:GLU:HA	4:2:251:GLY:HA2	1.60	0.84
1:A:837:MLY:HH21	2:H:20:ASP:CA	2.07	0.83
1:D:538:GLU:N	4:9:351:THR:N	2.24	0.83
1:J:813:ILE:HG23	2:K:128:PHE:CZ	2.12	0.83
1:J:831:TRP:CH2	2:K:47:LEU:HD22	2.12	0.83
1:P:202:SER:HA	1:P:207:LYS:HE2	0.85	0.83
1:P:792:ALA:HB3	3:R:81:GLN:NE2	1.93	0.83
4:W:237:GLU:HA	4:W:251:GLY:HA2	1.60	0.83
1:A:505:MLY:CB	1:A:762:HIS:N	2.40	0.83
1:D:648:THR:CG2	1:D:651:ALA:HB2	2.08	0.83
1:G:640:LYS:C	4:V:23:GLY:O	2.16	0.83
1:P:529:PRO:CB	4:0:353:GLN:OE1	2.25	0.83
1:P:732:ILE:HG21	1:P:747:LEU:HD13	0.90	0.83
4:7:286:ASP:OD1	4:9:203:THR:CG2	2.26	0.83
4:Y:237:GLU:HA	4:Y:251:GLY:HA2	1.60	0.83
1:A:648:THR:CG2	1:A:651:ALA:HB2	2.08	0.83
1:G:753:VAL:N	1:G:780:ASP:OD1	2.10	0.83
2:H:141:PRO:CB	2:H:142:PRO:CD	2.56	0.83
1:P:725:ARG:CD	1:P:733:PRO:HB3	2.07	0.83
1:P:797:PHE:HE1	3:R:146:ILE:CG1	1.91	0.83
4:0:202:THR:OG1	4:Y:287:ILE:N	2.11	0.83
4:0:287:ILE:HG22	4:2:203:THR:HG22	1.60	0.83
4:2:322:PRO:CB	4:4:244:ASP:CB	2.55	0.83
4:5:237:GLU:HA	4:5:251:GLY:HA2	1.60	0.83
1:D:410:ASN:ND2	4:9:336:LYS:HG2	1.92	0.83
1:G:148:ARG:NE	1:G:764:MLY:HH21	1.92	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:529:PRO:CB	4:V:353:GLN:OE1	2.25	0.83
1:G:640:LYS:CB	1:G:645:SER:OG	2.25	0.83
1:G:801:VAL:CG2	3:I:126:LEU:HD21	2.05	0.83
1:J:561:LYS:CE	4:Y:48:GLY:HA3	2.07	0.83
1:J:795:ARG:CZ	3:L:116:GLU:CD	2.47	0.83
1:P:410:ASN:ND2	4:0:336:LYS:HG2	1.92	0.83
4:0:237:GLU:HA	4:0:251:GLY:HA2	1.60	0.83
4:3:322:PRO:HB3	4:5:244:ASP:OD2	1.78	0.83
1:D:549:SER:O	4:W:46:GLY:HA3	1.77	0.83
1:G:542:PHE:CA	4:V:143:TYR:CE1	2.61	0.83
1:J:218:LEU:HB3	1:J:221:GLN:HG3	1.60	0.83
1:J:538:GLU:N	4:W:351:THR:N	2.24	0.83
1:J:542:PHE:CA	4:W:143:TYR:CE1	2.61	0.83
1:J:783:LEU:O	1:J:787:ILE:HB	1.78	0.83
1:P:783:LEU:HG	1:P:786:ILE:HD11	0.85	0.83
4:3:287:ILE:CD1	4:5:203:THR:HB	2.06	0.83
4:W:286:ASP:OD1	4:Y:203:THR:N	2.11	0.83
1:A:543:PRO:HG3	4:8:143:TYR:O	1.77	0.83
1:D:730:SER:O	1:D:734:GLU:HG3	1.78	0.83
1:G:553:MLY:CH1	4:X:45:VAL:CG1	2.49	0.83
1:J:788:THR:O	3:L:42:THR:CG2	2.18	0.83
1:P:648:THR:CG2	1:P:651:ALA:HB2	2.08	0.83
2:Q:141:PRO:CB	2:Q:142:PRO:CD	2.56	0.83
1:A:529:PRO:CB	4:8:353:GLN:OE1	2.25	0.83
1:D:732:ILE:HG21	1:D:747:LEU:HD13	0.91	0.83
1:G:635:GLY:HA2	4:V:334:GLU:CG	2.03	0.83
1:J:730:SER:O	1:J:734:GLU:HG3	1.79	0.83
2:K:141:PRO:CB	2:K:142:PRO:CD	2.56	0.83
1:P:801:VAL:CG2	3:R:126:LEU:CD2	2.51	0.83
1:P:817:GLN:CG	2:Q:127:ARG:CD	2.55	0.83
1:P:829:TRP:CH2	2:Q:84:PHE:CE1	2.66	0.83
1:A:553:MLY:HG2	4:V:47:MET:H	1.44	0.83
1:A:732:ILE:HG23	1:A:747:LEU:HB2	1.57	0.83
1:P:503:TYR:CE1	1:P:711:PHE:CE2	2.65	0.83
1:P:730:SER:O	1:P:734:GLU:HG3	1.79	0.83
1:P:795:ARG:CZ	3:R:116:GLU:OE1	2.27	0.83
1:A:549:SER:O	4:V:46:GLY:HA3	1.77	0.83
1:A:629:GLU:CG	1:A:643:GLY:O	2.26	0.83
1:D:553:MLY:HG2	4:W:47:MET:H	1.44	0.83
1:D:641:LYS:HG2	1:D:647:GLN:HG3	1.61	0.83
1:D:813:ILE:CD1	2:E:128:PHE:HE1	1.89	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:822:SER:CB	2:E:88:LEU:CD2	2.57	0.83
1:G:543:PRO:HG3	4:V:143:TYR:O	1.78	0.83
1:G:732:ILE:HG23	1:G:747:LEU:HB2	1.57	0.83
1:P:641:LYS:HG2	1:P:647:GLN:HG3	1.61	0.83
4:4:237:GLU:HA	4:4:251:GLY:HA2	1.60	0.83
1:A:646:PHE:CE2	1:A:652:LEU:CD1	2.58	0.83
1:G:732:ILE:CG2	1:G:747:LEU:HD13	1.34	0.83
4:9:286:ASP:OD1	4:W:203:THR:CG2	2.26	0.83
1:A:418:THR:HB	1:A:421:GLU:HG3	1.59	0.82
1:D:279:LEU:HB2	1:D:282:GLU:HG3	1.60	0.82
1:G:418:THR:HB	1:G:421:GLU:HG3	1.60	0.82
1:P:599:ASN:OD1	1:P:649:VAL:HB	1.72	0.82
1:P:817:GLN:CG	2:Q:127:ARG:HB2	2.08	0.82
4:1:287:ILE:HG21	4:3:204:ALA:H	1.42	0.82
4:3:237:GLU:HA	4:3:251:GLY:HA2	1.60	0.82
1:A:795:ARG:NH2	3:C:116:GLU:OE2	1.97	0.82
1:G:557:GLU:HB2	4:X:46:GLY:C	1.99	0.82
1:G:795:ARG:CZ	3:I:116:GLU:HB3	2.09	0.82
1:G:817:GLN:HG2	2:H:127:ARG:CB	2.09	0.82
2:H:144:VAL:HG12	2:H:153:ILE:CD1	2.09	0.82
1:A:107:MLY:HB3	1:A:686:MET:HE2	1.60	0.82
1:D:543:PRO:HG3	4:9:143:TYR:O	1.77	0.82
1:J:279:LEU:HB2	1:J:282:GLU:HG3	1.60	0.82
1:P:542:PHE:CA	4:0:143:TYR:HE1	1.92	0.82
4:8:290:ARG:NH1	4:V:202:THR:HG21	1.94	0.82
1:A:578:HIS:HB3	1:A:592:ILE:HD12	1.62	0.82
1:A:599:ASN:OD1	1:A:649:VAL:HB	1.72	0.82
1:G:795:ARG:HB2	3:I:35:ARG:NH1	1.94	0.82
1:J:732:ILE:CG2	1:J:747:LEU:HD13	1.34	0.82
1:P:218:LEU:HB3	1:P:221:GLN:HG3	1.61	0.82
1:P:734:GLU:O	1:P:738:MET:CG	2.28	0.82
1:A:505:MLY:CB	1:A:762:HIS:H	1.92	0.82
1:J:218:LEU:HA	1:J:221:GLN:HG2	1.61	0.82
2:K:121:LEU:CG	2:K:128:PHE:CA	2.48	0.82
1:P:218:LEU:HA	1:P:221:GLN:HG2	1.62	0.82
4:7:290:ARG:NH1	4:9:202:THR:HG21	1.94	0.82
1:A:542:PHE:CA	4:8:143:TYR:HE1	1.92	0.82
1:A:721:LYS:CA	1:A:736:GLN:NE2	2.43	0.82
2:B:141:PRO:CB	2:B:142:PRO:CD	2.56	0.82
1:D:218:LEU:HD22	1:D:222:ILE:CG1	2.10	0.82
1:D:542:PHE:CA	4:9:143:TYR:CE1	2.61	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:757:GLN:HG2	1:G:776:GLU:CD	1.99	0.82
1:J:127:ASN:HD22	1:J:128:PRO:HD2	1.44	0.82
1:J:542:PHE:CA	4:W:143:TYR:HE1	1.92	0.82
1:J:599:ASN:CA	1:J:649:VAL:CB	2.53	0.82
1:J:648:THR:CG2	1:J:651:ALA:HB2	2.08	0.82
4:8:286:ASP:OD1	4:V:203:THR:CG2	2.26	0.82
1:A:553:MLY:CB	4:V:46:GLY:CA	2.32	0.82
1:G:530:MET:HE1	4:V:355:MET:SD	2.19	0.82
1:G:578:HIS:HB3	1:G:592:ILE:HD12	1.62	0.82
1:G:629:GLU:CG	1:G:643:GLY:O	2.26	0.82
1:J:218:LEU:HD22	1:J:222:ILE:CG1	2.10	0.82
1:J:641:LYS:HG2	1:J:647:GLN:HG3	1.61	0.82
1:P:127:ASN:HD22	1:P:128:PRO:HD2	1.45	0.82
1:J:643:GLY:N	4:W:24:ASP:HA	1.93	0.82
1:J:735:GLY:C	1:J:743:ALA:HB1	1.84	0.82
1:P:218:LEU:HD22	1:P:222:ILE:CG1	2.10	0.82
1:P:279:LEU:HB2	1:P:282:GLU:HG3	1.60	0.82
1:P:639:GLY:CA	4:0:344:SER:C	2.48	0.82
1:P:786:ILE:O	1:P:787:ILE:CB	2.27	0.82
4:1:237:GLU:HA	4:1:251:GLY:HA2	1.60	0.82
1:A:127:ASN:HD22	1:A:128:PRO:HD2	1.45	0.82
1:A:218:LEU:HD22	1:A:222:ILE:CG1	2.10	0.82
1:A:639:GLY:CA	4:8:344:SER:C	2.48	0.82
1:A:640:LYS:CB	1:A:645:SER:OG	2.25	0.82
1:A:643:GLY:N	4:8:24:ASP:HA	1.93	0.82
1:A:819:ASN:CG	2:B:92:ASP:N	2.33	0.82
1:D:557:GLU:N	4:W:48:GLY:HA2	1.90	0.82
1:D:721:LYS:CA	1:D:736:GLN:NE2	2.43	0.82
2:E:144:VAL:HG12	2:E:153:ILE:CD1	2.10	0.82
1:G:218:LEU:HD22	1:G:222:ILE:CG1	2.10	0.82
1:G:538:GLU:OE2	4:V:355:MET:HE3	1.79	0.82
2:H:111:SER:OG	2:H:148:VAL:C	2.15	0.82
1:P:795:ARG:CG	3:R:42:THR:HA	1.99	0.82
1:P:800:ARG:NH2	3:R:40:ASN:CG	2.33	0.82
1:A:279:LEU:HB2	1:A:282:GLU:HG3	1.60	0.82
1:A:557:GLU:H	4:V:48:GLY:HA3	1.28	0.82
1:A:641:LYS:HG2	1:A:647:GLN:HG3	1.61	0.82
1:D:549:SER:O	4:W:46:GLY:CA	2.27	0.82
1:D:769:ALA:O	1:D:774:LEU:HB2	1.80	0.82
1:D:834:LEU:HD12	2:E:54:MET:CB	2.10	0.82
1:G:643:GLY:N	4:V:24:ASP:HA	1.94	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:834:LEU:CD1	2:H:51:PHE:CE1	2.63	0.82
1:J:798:LEU:HD11	3:L:126:LEU:HD11	0.82	0.82
1:J:818:TYR:CD1	2:K:127:ARG:NH1	2.48	0.82
1:P:578:HIS:HB3	1:P:592:ILE:HD12	1.62	0.82
4:8:237:GLU:HA	4:8:251:GLY:HA2	1.60	0.82
1:A:797:PHE:CE2	3:C:126:LEU:HD22	2.10	0.81
2:B:121:LEU:CG	2:B:128:PHE:CA	2.48	0.81
1:D:549:SER:O	4:W:46:GLY:C	2.18	0.81
2:E:162:ASP:O	2:K:21:GLU:CB	2.28	0.81
1:G:755:HIS:HB2	1:G:779:ARG:NH2	1.95	0.81
1:J:639:GLY:CA	4:W:344:SER:C	2.48	0.81
1:P:786:ILE:C	1:P:788:THR:H	1.81	0.81
1:P:818:TYR:CE1	2:Q:127:ARG:NH1	2.48	0.81
1:P:821:ARG:HH22	2:Q:127:ARG:CG	1.88	0.81
2:Q:111:SER:OG	2:Q:148:VAL:C	2.15	0.81
4:Z:237:GLU:HA	4:Z:251:GLY:HA2	1.60	0.81
1:A:502:GLU:CD	1:A:761:GLY:CA	2.29	0.81
1:D:734:GLU:O	1:D:738:MET:CG	2.28	0.81
1:J:795:ARG:NH2	3:L:116:GLU:CD	2.33	0.81
1:J:826:VAL:HG21	2:K:88:LEU:CD2	2.10	0.81
1:P:218:LEU:CA	1:P:221:GLN:HG2	2.10	0.81
1:A:730:SER:O	1:A:734:GLU:HG3	1.78	0.81
1:D:218:LEU:CA	1:D:221:GLN:HG2	2.10	0.81
1:D:218:LEU:HB3	1:D:221:GLN:HG3	1.61	0.81
1:D:571:ALA:O	1:D:572:LYS:CG	2.28	0.81
1:D:578:HIS:HD2	1:D:591:ASN:HA	1.45	0.81
1:D:639:GLY:CA	4:9:344:SER:C	2.48	0.81
1:D:643:GLY:N	4:9:24:ASP:HA	1.93	0.81
1:G:232:PHE:CZ	1:G:287:ILE:HD13	2.16	0.81
1:G:279:LEU:HB2	1:G:282:GLU:HG3	1.60	0.81
1:G:641:LYS:HG2	1:G:647:GLN:HG3	1.61	0.81
1:G:730:SER:O	1:G:734:GLU:HG3	1.78	0.81
1:G:792:ALA:CA	3:I:42:THR:HG22	2.07	0.81
1:J:480:ILE:HG22	1:J:481:ASN:HD22	1.45	0.81
1:J:578:HIS:HB3	1:J:592:ILE:HD12	1.62	0.81
1:J:732:ILE:HG21	1:J:747:LEU:HD13	0.91	0.81
1:P:215:GLN:N	1:P:340:ILE:CD1	2.44	0.81
1:P:732:ILE:HG23	1:P:747:LEU:CB	1.84	0.81
1:P:734:GLU:CG	3:R:93:VAL:CG2	2.58	0.81
1:P:786:ILE:HG22	1:P:787:ILE:HB	1.62	0.81
1:P:820:VAL:CG1	2:Q:136:MET:CE	2.57	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:V:237:GLU:HA	4:V:251:GLY:HA2	1.60	0.81
4:W:325:MET:HE1	4:Y:244:ASP:CG	2.00	0.81
4:X:237:GLU:HA	4:X:251:GLY:HA2	1.60	0.81
1:D:127:ASN:HD22	1:D:128:PRO:HD2	1.44	0.81
1:D:725:ARG:CZ	1:D:733:PRO:HB3	2.06	0.81
1:D:800:ARG:O	3:F:149:VAL:CG2	2.29	0.81
1:J:218:LEU:CA	1:J:221:GLN:HG2	2.10	0.81
1:P:548:THR:HG21	4:2:48:GLY:C	1.99	0.81
1:A:549:SER:O	4:V:46:GLY:CA	2.28	0.81
2:B:144:VAL:HG12	2:B:153:ILE:CD1	2.09	0.81
1:D:538:GLU:CA	4:9:351:THR:H	1.93	0.81
2:E:163:ALA:O	2:K:21:GLU:N	2.13	0.81
1:G:92:ALA:O	1:G:714:ARG:HG2	1.80	0.81
1:J:505:MLY:CG	1:J:762:HIS:HE1	1.90	0.81
1:J:734:GLU:O	1:J:738:MET:CG	2.28	0.81
2:K:144:VAL:HG12	2:K:153:ILE:CD1	2.10	0.81
4:9:290:ARG:NH1	4:W:202:THR:HG21	1.94	0.81
1:A:218:LEU:HA	1:A:221:GLN:HG2	1.62	0.81
1:A:538:GLU:CA	4:8:351:THR:H	1.93	0.81
1:A:549:SER:O	4:V:46:GLY:C	2.19	0.81
1:D:542:PHE:CA	4:9:143:TYR:HE1	1.92	0.81
1:D:550:PHE:CA	4:W:46:GLY:CA	2.59	0.81
1:D:795:ARG:HB3	3:F:35:ARG:HH12	1.07	0.81
1:P:641:LYS:HD2	4:0:348:SER:CA	2.09	0.81
4:0:201:VAL:N	4:Y:287:ILE:CG1	2.07	0.81
1:A:149:GLN:HE21	1:A:718:ALA:HB3	1.01	0.81
1:D:107:MLY:HB3	1:D:686:MET:HE2	1.63	0.81
1:D:641:LYS:HD2	4:9:348:SER:CA	2.09	0.81
1:G:127:ASN:HD22	1:G:128:PRO:HD2	1.45	0.81
1:G:732:ILE:HG21	1:G:747:LEU:HD13	0.91	0.81
1:P:374:GLN:HG3	1:P:375:ALA:N	1.96	0.81
1:P:538:GLU:CA	4:0:351:THR:H	1.93	0.81
4:2:290:ARG:HH21	4:4:202:THR:HG23	1.41	0.81
4:9:223:PHE:HE1	4:9:255:PHE:HB2	1.46	0.81
4:W:223:PHE:HE1	4:W:255:PHE:HB2	1.46	0.81
1:A:232:PHE:CZ	1:A:287:ILE:HD13	2.16	0.81
1:D:507:GLY:O	1:D:761:GLY:CA	2.29	0.81
1:G:505:MLY:CE	1:G:762:HIS:NE2	2.44	0.81
1:P:732:ILE:HG22	1:P:747:LEU:HD12	0.81	0.81
1:A:709:LYS:C	1:A:710:GLY:CA	2.44	0.81
2:B:144:VAL:CA	2:B:153:ILE:HD11	2.11	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:148:ARG:NH2	1:G:764:MLY:HH11	1.96	0.81
1:G:480:ILE:HG22	1:G:481:ASN:HD22	1.45	0.81
1:G:571:ALA:O	1:G:572:LYS:CG	2.28	0.81
1:G:639:GLY:CA	4:V:344:SER:C	2.48	0.81
1:P:735:GLY:C	1:P:743:ALA:HB2	1.82	0.81
4:8:223:PHE:HE1	4:8:255:PHE:HB2	1.46	0.81
1:A:93:MET:CE	1:A:715:VAL:CA	2.43	0.81
1:A:149:GLN:HG2	1:A:719:ASP:OD1	1.75	0.81
1:G:797:PHE:CE1	3:I:146:ILE:CG2	2.62	0.81
1:J:578:HIS:HD2	1:J:591:ASN:HA	1.45	0.81
1:P:502:GLU:OE2	1:P:761:GLY:CA	2.27	0.81
1:P:571:ALA:O	1:P:572:LYS:CG	2.28	0.81
2:Q:144:VAL:CA	2:Q:153:ILE:HD11	2.11	0.81
1:A:97:LEU:HD22	1:A:712:PRO:HB3	1.58	0.80
1:A:646:PHE:CE2	1:A:652:LEU:HD21	2.14	0.80
1:A:837:MLY:CH2	2:H:20:ASP:HA	2.10	0.80
1:D:218:LEU:HA	1:D:221:GLN:HG2	1.62	0.80
1:D:725:ARG:C	1:D:782:MLY:HH22	2.02	0.80
1:D:795:ARG:HG2	3:F:118:MET:HE1	0.90	0.80
1:G:84:MLY:HH22	1:G:719:ASP:O	1.79	0.80
1:J:641:LYS:HD2	4:W:348:SER:CA	2.09	0.80
1:P:542:PHE:CA	4:0:143:TYR:CE1	2.61	0.80
4:7:223:PHE:HE1	4:7:255:PHE:HB2	1.46	0.80
1:A:732:ILE:HG22	1:A:747:LEU:HD12	0.81	0.80
1:D:215:GLN:N	1:D:340:ILE:CD1	2.44	0.80
1:G:797:PHE:CE2	3:I:126:LEU:HD13	2.16	0.80
1:G:818:TYR:HB3	2:H:90:GLY:HA3	1.63	0.80
2:K:141:PRO:CB	2:K:142:PRO:HD2	2.11	0.80
1:A:550:PHE:CA	4:V:46:GLY:CA	2.59	0.80
1:A:578:HIS:HD2	1:A:591:ASN:HA	1.44	0.80
1:D:374:GLN:HG3	1:D:375:ALA:N	1.96	0.80
1:G:599:ASN:CA	1:G:649:VAL:CB	2.53	0.80
1:G:641:LYS:HD2	4:V:348:SER:CA	2.10	0.80
1:J:538:GLU:CA	4:W:351:THR:H	1.93	0.80
1:J:757:GLN:NE2	1:J:777:GLU:H	1.77	0.80
1:P:813:ILE:HG23	2:Q:128:PHE:CE1	2.14	0.80
1:A:480:ILE:HG22	1:A:481:ASN:HD22	1.45	0.80
2:B:141:PRO:CB	2:B:142:PRO:HD2	2.11	0.80
1:D:506:GLU:HG2	1:D:764:MLY:HE2	1.62	0.80
1:D:713:SER:CB	1:D:775:LEU:HD22	2.11	0.80
1:G:646:PHE:CE2	1:G:652:LEU:HD21	2.14	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:769:ALA:HB2	1:G:770:GLY:N	1.95	0.80
1:J:817:GLN:HG2	2:K:127:ARG:HB3	1.60	0.80
2:K:144:VAL:CA	2:K:153:ILE:HD11	2.11	0.80
3:L:49:ILE:N	3:L:52:ASN:ND2	2.30	0.80
1:P:578:HIS:HD2	1:P:591:ASN:HA	1.45	0.80
1:P:641:LYS:HD2	1:P:647:GLN:OE1	1.81	0.80
2:Q:141:PRO:CB	2:Q:142:PRO:HD2	2.12	0.80
4:0:288:ASP:HB2	4:2:63:GLY:HA3	0.84	0.80
4:V:325:MET:SD	4:X:244:ASP:HB3	2.19	0.80
1:A:641:LYS:HD2	4:8:348:SER:CA	2.09	0.80
1:A:734:GLU:O	1:A:738:MET:CG	2.28	0.80
1:G:538:GLU:CA	4:V:351:THR:H	1.92	0.80
1:G:538:GLU:HG3	4:V:351:THR:C	2.02	0.80
1:G:732:ILE:HG22	1:G:747:LEU:HD12	0.81	0.80
1:J:215:GLN:N	1:J:340:ILE:CD1	2.44	0.80
1:J:732:ILE:HG22	1:J:747:LEU:HD12	0.81	0.80
1:P:797:PHE:CE1	3:R:146:ILE:CB	2.64	0.80
2:Q:141:PRO:HB2	2:Q:142:PRO:CD	2.11	0.80
1:A:215:GLN:N	1:A:340:ILE:CD1	2.44	0.80
1:A:769:ALA:O	1:A:772:LEU:N	2.10	0.80
1:D:232:PHE:CZ	1:D:287:ILE:HD13	2.16	0.80
1:G:578:HIS:HD2	1:G:591:ASN:HA	1.44	0.80
1:J:374:GLN:HG3	1:J:375:ALA:N	1.96	0.80
1:J:756:THR:CG2	1:J:776:GLU:C	2.41	0.80
1:J:789:ALA:HB1	3:L:81:GLN:CD	2.02	0.80
1:P:792:ALA:HB2	3:R:42:THR:HG23	1.63	0.80
1:P:797:PHE:HZ	3:R:146:ILE:HD12	1.38	0.80
4:0:205:GLU:OE2	4:Y:287:ILE:CG2	2.08	0.80
4:5:223:PHE:HE1	4:5:255:PHE:HB2	1.46	0.80
1:A:374:GLN:HG3	1:A:375:ALA:N	1.96	0.80
1:A:557:GLU:N	4:V:48:GLY:HA2	1.90	0.80
1:D:578:HIS:HB3	1:D:592:ILE:HD12	1.62	0.80
1:J:571:ALA:O	1:J:572:LYS:CG	2.28	0.80
1:J:784:ALA:O	1:J:788:THR:N	2.14	0.80
1:J:798:LEU:HD11	3:L:126:LEU:HD13	1.61	0.80
1:P:232:PHE:CZ	1:P:287:ILE:HD13	2.16	0.80
1:P:643:GLY:N	4:0:24:ASP:HA	1.94	0.80
3:R:49:ILE:N	3:R:52:ASN:ND2	2.30	0.80
4:X:291:LYS:HE3	4:Z:243:PRO:HB2	0.80	0.80
1:A:732:ILE:HG21	1:A:747:LEU:HD13	0.91	0.80
3:F:49:ILE:N	3:F:52:ASN:ND2	2.29	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:215:GLN:N	1:G:340:ILE:CD1	2.44	0.80
1:G:218:LEU:HA	1:G:221:GLN:HG2	1.62	0.80
1:G:734:GLU:O	1:G:738:MET:CG	2.28	0.80
1:G:795:ARG:NE	3:I:116:GLU:OE2	2.15	0.80
1:J:836:PHE:CE2	2:K:160:GLY:N	2.48	0.80
2:K:141:PRO:HB2	2:K:142:PRO:CD	2.12	0.80
1:P:732:ILE:CG2	1:P:747:LEU:HD13	1.34	0.80
2:B:141:PRO:HB2	2:B:142:PRO:CD	2.12	0.80
1:D:480:ILE:HG22	1:D:481:ASN:HD22	1.45	0.80
2:E:141:PRO:HB2	2:E:142:PRO:CD	2.12	0.80
1:G:567:LYS:HZ3	4:X:92:ASN:ND2	1.78	0.80
1:G:797:PHE:CD1	3:I:146:ILE:CG2	2.58	0.80
1:G:797:PHE:HE2	3:I:126:LEU:HD22	1.43	0.80
2:H:121:LEU:CG	2:H:128:PHE:CA	2.49	0.80
1:J:107:MLY:HB3	1:J:686:MET:HE2	1.64	0.80
1:P:503:TYR:HE1	1:P:711:PHE:CD2	1.94	0.80
1:P:725:ARG:CZ	3:R:93:VAL:HG11	2.12	0.80
1:P:797:PHE:HD1	3:R:146:ILE:CG2	1.54	0.80
4:2:223:PHE:HE1	4:2:255:PHE:HB2	1.46	0.80
4:X:223:PHE:HE1	4:X:255:PHE:HB2	1.46	0.80
1:A:599:ASN:CA	1:A:649:VAL:CB	2.53	0.80
1:G:374:GLN:HG3	1:G:375:ALA:N	1.96	0.80
1:G:542:PHE:CA	4:V:143:TYR:HE1	1.93	0.80
1:G:641:LYS:HD2	4:V:348:SER:HB2	1.54	0.80
1:G:820:VAL:HG11	2:H:136:MET:CE	2.12	0.80
1:J:791:GLN:OE1	3:L:116:GLU:HG3	1.82	0.80
1:P:537:GLU:HG3	4:0:350:SER:O	1.78	0.80
1:P:785:GLU:O	1:P:788:THR:CB	2.29	0.80
4:0:173:HIS:CD2	4:1:268:GLY:HA3	2.17	0.80
4:V:223:PHE:HE1	4:V:255:PHE:HB2	1.46	0.80
1:A:571:ALA:O	1:A:572:LYS:CG	2.28	0.79
1:A:752:ASP:CG	1:A:782:MLY:HD3	2.01	0.79
1:G:84:MLY:CH1	1:G:724:TYR:CZ	2.62	0.79
1:G:755:HIS:H	1:G:779:ARG:NE	1.81	0.79
3:I:50:LEU:C	3:I:53:PRO:HD2	2.03	0.79
1:J:829:TRP:CE3	2:K:87:LYS:NZ	2.49	0.79
2:E:144:VAL:CA	2:E:153:ILE:HD11	2.11	0.79
1:G:28:GLN:C	1:G:723:ARG:HH22	1.84	0.79
1:G:93:MET:SD	1:G:716:LEU:N	2.55	0.79
1:J:232:PHE:CZ	1:J:287:ILE:HD13	2.16	0.79
1:P:552:ASN:ND2	4:2:49:GLN:CD	2.34	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:829:TRP:CZ3	2:Q:87:LYS:NZ	2.46	0.79
4:1:203:THR:H	4:Z:287:ILE:HB	1.45	0.79
1:A:641:LYS:HD2	4:8:348:SER:HB2	1.54	0.79
3:C:49:ILE:N	3:C:52:ASN:ND2	2.29	0.79
1:J:817:GLN:HG3	2:K:128:PHE:CE1	2.16	0.79
1:P:480:ILE:HG22	1:P:481:ASN:HD22	1.45	0.79
2:Q:117:LEU:HB2	2:Q:147:ASN:HD21	1.47	0.79
4:1:287:ILE:HG13	4:3:202:THR:HA	1.64	0.79
4:1:288:ASP:N	4:3:203:THR:CG2	2.45	0.79
4:3:223:PHE:HE1	4:3:255:PHE:HB2	1.46	0.79
1:D:732:ILE:CG2	1:D:747:LEU:HD13	1.34	0.79
1:D:732:ILE:HG22	1:D:747:LEU:HD12	0.81	0.79
1:D:834:LEU:HD11	2:E:54:MET:CB	2.12	0.79
3:F:50:LEU:C	3:F:53:PRO:HD2	2.03	0.79
1:G:707:CYS:SG	1:G:714:ARG:NH1	2.55	0.79
3:I:49:ILE:N	3:I:52:ASN:ND2	2.29	0.79
1:P:797:PHE:HZ	3:R:146:ILE:CD1	1.91	0.79
1:P:803:TYR:CG	1:P:807:VAL:HG21	2.17	0.79
1:A:174:SER:CB	1:A:667:THR:HG21	2.13	0.79
1:A:218:LEU:CA	1:A:221:GLN:HG2	2.10	0.79
1:G:84:MLY:HB3	1:G:723:ARG:CD	2.10	0.79
1:J:792:ALA:HA	3:L:42:THR:CA	2.11	0.79
1:J:795:ARG:NE	3:L:116:GLU:CD	2.35	0.79
1:J:797:PHE:HE1	3:L:146:ILE:HA	1.47	0.79
4:4:223:PHE:HE1	4:4:255:PHE:HB2	1.46	0.79
4:8:287:ILE:HB	4:V:204:ALA:N	1.97	0.79
1:A:732:ILE:CG2	1:A:747:LEU:HD13	1.34	0.79
1:G:218:LEU:CA	1:G:221:GLN:HG2	2.10	0.79
1:G:757:GLN:OE1	1:G:772:LEU:C	2.20	0.79
2:H:141:PRO:CB	2:H:142:PRO:HD2	2.11	0.79
1:P:785:GLU:C	1:P:788:THR:CB	2.51	0.79
1:A:641:LYS:CE	1:A:647:GLN:CG	2.60	0.79
1:D:641:LYS:CE	1:D:647:GLN:HB2	2.13	0.79
1:D:799:MET:SD	3:F:32:ASP:CG	2.61	0.79
1:G:537:GLU:O	4:V:350:SER:N	2.16	0.79
2:H:144:VAL:CA	2:H:153:ILE:HD11	2.11	0.79
1:J:407:GLY:HA2	1:J:412:ALA:HA	1.65	0.79
1:J:410:ASN:CG	4:W:334:GLU:CA	2.47	0.79
1:P:831:TRP:CH2	2:Q:47:LEU:HD22	1.96	0.79
4:1:203:THR:N	4:Z:287:ILE:HG21	1.98	0.79
1:A:538:GLU:HG3	4:8:351:THR:C	2.03	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:174:SER:CB	1:G:667:THR:HG21	2.13	0.79
1:G:505:MLY:HH23	1:G:762:HIS:CG	2.18	0.79
1:G:505:MLY:CH2	1:G:762:HIS:HE1	0.61	0.79
2:H:141:PRO:HB2	2:H:142:PRO:CD	2.11	0.79
1:A:409:GLY:N	1:A:636:LYS:CG	2.44	0.79
1:A:537:GLU:O	4:8:350:SER:N	2.16	0.79
1:D:537:GLU:O	4:9:350:SER:N	2.16	0.79
2:E:141:PRO:CB	2:E:142:PRO:HD2	2.11	0.79
1:G:28:GLN:HB3	1:G:723:ARG:CZ	2.12	0.79
1:J:769:ALA:CB	1:J:770:GLY:CA	2.61	0.79
4:0:223:PHE:HE1	4:0:255:PHE:HB2	1.46	0.79
1:A:550:PHE:N	4:V:46:GLY:HA3	1.97	0.79
1:A:553:MLY:NZ	4:V:45:VAL:HA	1.84	0.79
1:D:409:GLY:N	1:D:636:LYS:CG	2.44	0.79
1:D:550:PHE:HA	4:W:46:GLY:HA2	1.64	0.79
1:G:407:GLY:HA2	1:G:412:ALA:HA	1.65	0.79
1:J:642:LYS:CG	4:W:23:GLY:H	1.77	0.79
1:J:796:GLY:N	3:L:35:ARG:CZ	2.46	0.79
1:J:829:TRP:HZ3	2:K:84:PHE:CZ	2.01	0.79
2:K:111:SER:OG	2:K:148:VAL:C	2.15	0.79
1:P:107:MLY:HB3	1:P:686:MET:HE2	1.65	0.79
1:P:538:GLU:HG3	4:0:351:THR:C	2.03	0.79
1:P:599:ASN:CA	1:P:649:VAL:CB	2.53	0.79
2:Q:144:VAL:HG12	2:Q:153:ILE:CD1	2.10	0.79
3:R:50:LEU:C	3:R:53:PRO:HD2	2.03	0.79
1:G:795:ARG:NH2	3:I:116:GLU:CD	2.30	0.78
1:J:409:GLY:N	1:J:636:LYS:CG	2.44	0.78
4:1:202:THR:CB	4:Z:287:ILE:HG21	2.13	0.78
1:A:28:GLN:NE2	1:A:723:ARG:HH21	1.81	0.78
1:A:149:GLN:HB2	1:A:718:ALA:HB1	1.64	0.78
1:A:550:PHE:HA	4:V:46:GLY:HA2	1.65	0.78
1:D:747:LEU:HD11	1:D:782:MLY:CH2	2.13	0.78
1:G:642:LYS:HG2	4:V:22:ALA:HA	1.65	0.78
1:G:820:VAL:HG11	2:H:136:MET:HE3	1.65	0.78
1:J:538:GLU:HG3	4:W:351:THR:C	2.03	0.78
1:J:639:GLY:CA	4:W:345:ILE:N	2.46	0.78
1:J:641:LYS:CE	1:J:647:GLN:HB2	2.13	0.78
1:J:795:ARG:O	3:L:35:ARG:NH2	2.16	0.78
3:L:50:LEU:C	3:L:53:PRO:HD2	2.03	0.78
1:P:407:GLY:HA2	1:P:412:ALA:HA	1.65	0.78
1:P:552:ASN:ND2	4:2:49:GLN:HG3	1.82	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:804:ARG:O	1:P:808:GLU:CB	2.30	0.78
4:Y:223:PHE:HE1	4:Y:255:PHE:HB2	1.46	0.78
4:Z:223:PHE:HE1	4:Z:255:PHE:HB2	1.46	0.78
1:A:831:TRP:CH2	2:B:34:ILE:HG23	2.17	0.78
1:D:407:GLY:HA2	1:D:412:ALA:HA	1.65	0.78
1:D:838:ILE:HD11	2:E:54:MET:SD	2.24	0.78
1:G:291:ILE:HA	1:G:331:LEU:HD11	1.64	0.78
1:G:735:GLY:C	1:G:743:ALA:HB2	1.82	0.78
1:J:28:GLN:OE1	1:J:723:ARG:CG	2.31	0.78
4:2:322:PRO:CB	4:4:244:ASP:OD2	2.27	0.78
1:D:481:ASN:HD22	1:D:481:ASN:N	1.82	0.78
2:K:117:LEU:HB2	2:K:147:ASN:HD21	1.47	0.78
1:P:174:SER:CB	1:P:667:THR:HG21	2.13	0.78
1:P:409:GLY:N	1:P:636:LYS:CG	2.44	0.78
1:P:641:LYS:CE	1:P:647:GLN:HB2	2.13	0.78
1:P:725:ARG:CZ	1:P:733:PRO:HB3	2.06	0.78
1:P:795:ARG:NE	3:R:116:GLU:OE1	2.17	0.78
4:1:223:PHE:HE1	4:1:255:PHE:HB2	1.46	0.78
4:7:287:ILE:HB	4:9:204:ALA:N	1.97	0.78
4:9:287:ILE:HB	4:W:204:ALA:N	1.97	0.78
1:A:51:THR:O	1:A:62:VAL:HG13	1.84	0.78
1:A:642:LYS:HG2	4:8:22:ALA:HA	1.66	0.78
1:A:837:MLY:HH22	2:H:21:GLU:H	1.47	0.78
1:D:713:SER:HB2	1:D:775:LEU:CD2	2.13	0.78
1:P:538:GLU:OE2	4:0:355:MET:HE3	1.84	0.78
1:P:646:PHE:HE2	1:P:652:LEU:CD2	1.97	0.78
3:C:50:LEU:C	3:C:53:PRO:HD2	2.03	0.78
1:D:507:GLY:HA3	1:D:762:HIS:CB	2.13	0.78
1:J:174:SER:CB	1:J:667:THR:HG21	2.13	0.78
1:J:721:LYS:CA	1:J:736:GLN:NE2	2.43	0.78
1:J:801:VAL:HG21	3:L:126:LEU:CD2	2.13	0.78
1:P:496:PHE:CD2	1:P:514:ASP:HA	2.19	0.78
1:P:537:GLU:O	4:0:350:SER:N	2.16	0.78
4:1:203:THR:N	4:Z:287:ILE:CG2	2.45	0.78
4:3:322:PRO:HB3	4:5:244:ASP:CB	2.10	0.78
1:A:797:PHE:CZ	3:C:146:ILE:HD12	2.01	0.78
1:D:291:ILE:HA	1:D:331:LEU:HD11	1.64	0.78
1:D:793:ARG:HH21	3:F:147:MET:CE	1.97	0.78
1:D:797:PHE:CE1	3:F:146:ILE:CG2	2.60	0.78
1:G:51:THR:O	1:G:62:VAL:HG13	1.84	0.78
1:G:646:PHE:HE2	1:G:652:LEU:CD2	1.97	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:830:PRO:CB	2:H:67:MET:CE	2.61	0.78
1:J:51:THR:O	1:J:62:VAL:HG13	1.84	0.78
1:J:291:ILE:HA	1:J:331:LEU:HD11	1.64	0.78
1:J:530:MET:HE1	4:W:355:MET:SD	2.24	0.78
1:J:646:PHE:HE2	1:J:652:LEU:CD2	1.97	0.78
4:0:243:PRO:C	4:Y:291:LYS:NZ	2.34	0.78
1:A:149:GLN:CB	1:A:718:ALA:CB	2.50	0.78
1:A:149:GLN:HG2	1:A:719:ASP:CB	2.13	0.78
1:A:818:TYR:CB	2:B:90:GLY:CA	2.57	0.78
1:D:506:GLU:CG	1:D:764:MLY:HE2	2.11	0.78
1:D:538:GLU:HG3	4:9:351:THR:C	2.03	0.78
1:D:550:PHE:N	4:W:46:GLY:HA3	1.97	0.78
4:1:324:THR:HG23	4:3:244:ASP:CA	2.14	0.78
4:3:288:ASP:N	4:5:203:THR:CG2	2.46	0.78
1:A:291:ILE:HA	1:A:331:LEU:HD11	1.64	0.78
1:G:219:GLU:O	1:G:223:ILE:HG13	1.84	0.78
1:J:496:PHE:CD2	1:J:514:ASP:HA	2.19	0.78
1:J:537:GLU:O	4:W:350:SER:N	2.16	0.78
1:J:826:VAL:HG21	2:K:88:LEU:HD21	1.66	0.78
1:A:149:GLN:CG	1:A:719:ASP:CG	2.52	0.78
1:A:800:ARG:C	3:C:149:VAL:HG21	2.04	0.78
1:D:496:PHE:CD2	1:D:514:ASP:HA	2.19	0.78
1:D:639:GLY:CA	4:9:345:ILE:N	2.47	0.78
1:D:819:ASN:ND2	2:E:90:GLY:C	2.23	0.78
1:G:537:GLU:HG3	4:V:350:SER:O	1.79	0.78
1:P:51:THR:O	1:P:62:VAL:HG13	1.84	0.78
1:P:639:GLY:CA	4:0:345:ILE:N	2.46	0.78
1:P:721:LYS:CA	1:P:736:GLN:NE2	2.43	0.78
1:P:733:PRO:HG2	3:R:93:VAL:HG21	1.67	0.78
4:2:322:PRO:HB2	4:4:244:ASP:HB2	1.66	0.78
1:A:496:PHE:CD2	1:A:514:ASP:HA	2.19	0.77
1:A:505:MLY:HB3	1:A:762:HIS:N	1.96	0.77
1:A:538:GLU:OE2	4:8:355:MET:HE3	1.81	0.77
1:A:795:ARG:HG2	3:C:118:MET:HE3	1.65	0.77
1:D:51:THR:O	1:D:62:VAL:HG13	1.84	0.77
1:G:496:PHE:CD2	1:G:514:ASP:HA	2.19	0.77
1:J:530:MET:CG	4:W:354:GLN:CB	2.30	0.77
1:P:505:MLY:HE3	1:P:762:HIS:HE1	0.95	0.77
1:P:733:PRO:C	1:P:737:PHE:HD1	1.88	0.77
1:P:818:TYR:HB3	2:Q:90:GLY:HA3	1.66	0.77
4:0:243:PRO:HG2	4:Y:288:ASP:HB3	1.65	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X:291:LYS:HE2	4:Z:243:PRO:O	1.82	0.77
1:A:219:GLU:O	1:A:223:ILE:HG13	1.84	0.77
1:A:800:ARG:HD2	3:C:149:VAL:C	2.04	0.77
1:A:836:PHE:CZ	2:B:159:HIS:C	2.58	0.77
3:C:49:ILE:N	3:C:52:ASN:HD22	1.82	0.77
1:G:84:MLY:HH21	1:G:720:PHE:HA	1.63	0.77
1:G:639:GLY:CA	4:V:345:ILE:N	2.47	0.77
1:G:721:LYS:CA	1:G:736:GLN:NE2	2.43	0.77
1:G:818:TYR:CZ	2:H:127:ARG:NH1	2.52	0.77
1:G:819:ASN:HA	2:H:90:GLY:C	1.99	0.77
1:P:219:GLU:O	1:P:223:ILE:HG13	1.84	0.77
1:P:786:ILE:HG23	1:P:787:ILE:HB	0.78	0.77
4:1:203:THR:HG22	4:Z:288:ASP:N	1.99	0.77
4:4:223:PHE:HD2	4:4:312:ARG:HH21	1.32	0.77
1:A:819:ASN:CG	2:B:92:ASP:H	1.87	0.77
1:G:409:GLY:N	1:G:636:LYS:CG	2.44	0.77
1:J:116:TYR:O	1:J:153:PRO:HB2	1.85	0.77
1:J:819:ASN:ND2	2:K:92:ASP:CB	2.38	0.77
1:P:116:TYR:O	1:P:153:PRO:HB2	1.85	0.77
4:W:223:PHE:HD2	4:W:312:ARG:HH21	1.33	0.77
1:A:407:GLY:HA2	1:A:412:ALA:HA	1.65	0.77
1:D:599:ASN:CA	1:D:649:VAL:CB	2.53	0.77
1:D:646:PHE:CE2	1:D:652:LEU:HD21	2.14	0.77
1:D:819:ASN:CG	2:E:90:GLY:O	2.23	0.77
3:F:3:SER:O	3:F:4:LYS:HB2	1.84	0.77
3:F:49:ILE:N	3:F:52:ASN:HD22	1.82	0.77
1:J:831:TRP:CZ2	2:K:47:LEU:HD22	2.18	0.77
1:P:291:ILE:HA	1:P:331:LEU:HD11	1.64	0.77
4:1:202:THR:HA	4:Z:287:ILE:HG12	1.67	0.77
4:9:223:PHE:HD2	4:9:312:ARG:HH21	1.33	0.77
4:X:291:LYS:CE	4:Z:243:PRO:CA	2.61	0.77
1:A:537:GLU:HG3	4:8:350:SER:O	1.79	0.77
1:A:556:ASP:HA	4:V:49:GLN:O	1.70	0.77
3:C:3:SER:O	3:C:4:LYS:HB2	1.84	0.77
1:D:629:GLU:HA	1:D:643:GLY:C	2.05	0.77
1:D:795:ARG:CD	3:F:35:ARG:HH12	1.97	0.77
4:1:324:THR:CB	4:3:244:ASP:HA	2.14	0.77
4:5:223:PHE:HD2	4:5:312:ARG:HH21	1.33	0.77
1:A:798:LEU:HD21	3:C:126:LEU:HD11	1.64	0.77
1:D:116:TYR:O	1:D:153:PRO:HB2	1.85	0.77
1:D:819:ASN:HB2	2:E:90:GLY:O	1.84	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:116:TYR:O	1:G:153:PRO:HB2	1.85	0.77
1:G:817:GLN:CD	2:H:127:ARG:CD	2.50	0.77
1:J:567:LYS:HZ1	4:Y:92:ASN:HD22	1.32	0.77
1:A:641:LYS:CE	1:A:647:GLN:HB2	2.13	0.77
2:B:111:SER:OG	2:B:148:VAL:C	2.15	0.77
1:D:94:MET:CE	1:D:101:ALA:HB1	2.15	0.77
1:D:795:ARG:HH21	3:F:116:GLU:CB	1.97	0.77
1:G:530:MET:HE3	4:V:354:GLN:HG2	1.65	0.77
2:K:121:LEU:CG	2:K:128:PHE:HA	2.14	0.77
1:P:753:VAL:CG1	1:P:775:LEU:HD11	2.14	0.77
4:0:245:GLY:H	4:Y:291:LYS:HB2	1.49	0.77
4:7:223:PHE:HD2	4:7:312:ARG:HH21	1.33	0.77
4:8:223:PHE:HD2	4:8:312:ARG:HH21	1.33	0.77
1:D:174:SER:CB	1:D:667:THR:HG21	2.13	0.77
1:G:817:GLN:NE2	2:H:128:PHE:CE1	2.53	0.77
1:J:629:GLU:HA	1:J:643:GLY:C	2.05	0.77
4:0:166:TYR:OH	4:2:64:ILE:HD13	1.85	0.77
4:0:223:PHE:HD2	4:0:312:ARG:HH21	1.33	0.77
4:Y:223:PHE:HD2	4:Y:312:ARG:HH21	1.33	0.77
1:A:639:GLY:CA	4:8:345:ILE:N	2.47	0.77
1:A:725:ARG:HG3	1:A:733:PRO:HA	1.67	0.77
1:D:642:LYS:HG2	4:9:22:ALA:HA	1.65	0.77
1:D:708:ARG:HA	1:D:710:GLY:N	2.00	0.77
1:P:803:TYR:CE1	1:P:807:VAL:HG13	2.19	0.77
4:1:324:THR:CG2	4:3:244:ASP:CA	2.59	0.77
4:2:223:PHE:HD2	4:2:312:ARG:HH21	1.33	0.77
4:3:288:ASP:H	4:5:203:THR:CG2	1.98	0.77
4:Z:223:PHE:HD2	4:Z:312:ARG:HH21	1.33	0.77
1:A:646:PHE:HE2	1:A:652:LEU:CD2	1.97	0.77
1:A:837:MLY:HH21	2:H:20:ASP:CB	2.15	0.77
1:D:646:PHE:HE2	1:D:652:LEU:CD2	1.97	0.77
1:J:219:GLU:O	1:J:223:ILE:HG13	1.84	0.77
1:P:94:MET:CE	1:P:101:ALA:HB1	2.15	0.77
1:P:530:MET:CG	4:0:354:GLN:CB	2.30	0.77
1:P:629:GLU:HA	1:P:643:GLY:C	2.05	0.77
1:P:829:TRP:HZ3	2:Q:84:PHE:CE2	2.03	0.77
4:1:287:ILE:HG21	4:3:202:THR:C	2.05	0.77
4:1:288:ASP:OD1	4:3:203:THR:HG23	1.84	0.77
1:A:218:LEU:HD22	1:A:222:ILE:HG12	1.67	0.76
1:A:502:GLU:HG3	1:A:761:GLY:HA3	1.49	0.76
1:A:791:GLN:OE1	3:C:116:GLU:CG	2.29	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:219:GLU:O	1:D:223:ILE:HG13	1.84	0.76
1:D:792:ALA:CB	3:F:42:THR:CG2	2.20	0.76
1:G:218:LEU:HD22	1:G:222:ILE:HG12	1.67	0.76
1:G:503:TYR:HE1	1:G:711:PHE:CD2	1.99	0.76
1:G:725:ARG:HG3	1:G:733:PRO:HA	1.67	0.76
1:G:769:ALA:O	1:G:773:GLY:HA2	1.85	0.76
1:J:218:LEU:HD22	1:J:222:ILE:HG12	1.67	0.76
1:J:641:LYS:CE	1:J:647:GLN:CG	2.61	0.76
1:J:818:TYR:HE1	2:K:127:ARG:NH2	1.75	0.76
1:P:218:LEU:HD22	1:P:222:ILE:HG12	1.66	0.76
1:P:795:ARG:CG	3:R:35:ARG:NH1	2.47	0.76
3:R:49:ILE:N	3:R:52:ASN:HD22	1.82	0.76
1:A:94:MET:CE	1:A:101:ALA:HB1	2.15	0.76
1:A:732:ILE:N	1:A:733:PRO:HD2	2.00	0.76
1:D:530:MET:HE1	4:9:355:MET:SD	2.25	0.76
1:D:635:GLY:HA3	4:9:341:ILE:CD1	2.14	0.76
2:E:121:LEU:CG	2:E:128:PHE:HA	2.14	0.76
1:G:218:LEU:HB2	1:G:221:GLN:CG	2.09	0.76
1:G:503:TYR:CE1	1:G:711:PHE:HE2	1.99	0.76
1:G:641:LYS:HD2	1:G:647:GLN:OE1	1.81	0.76
2:H:150:TYR:C	2:H:151:LYS:CG	2.48	0.76
1:J:481:ASN:HD22	1:J:481:ASN:N	1.82	0.76
1:P:641:LYS:CE	1:P:647:GLN:CG	2.60	0.76
1:P:797:PHE:HE1	3:R:146:ILE:CB	1.99	0.76
4:3:223:PHE:HD2	4:3:312:ARG:HH21	1.33	0.76
4:3:324:THR:CG2	4:5:244:ASP:N	2.32	0.76
4:X:223:PHE:HD2	4:X:312:ARG:HH21	1.32	0.76
1:D:529:PRO:C	4:9:354:GLN:CB	2.49	0.76
1:D:641:LYS:CE	1:D:647:GLN:CG	2.60	0.76
1:A:623:PHE:CG	1:A:623:PHE:CA	2.68	0.76
1:A:629:GLU:HA	1:A:643:GLY:C	2.05	0.76
1:A:830:PRO:HB2	2:B:51:PHE:CE1	2.20	0.76
1:D:538:GLU:OE2	4:9:355:MET:HE3	1.85	0.76
1:D:553:MLY:NZ	4:W:45:VAL:HA	1.84	0.76
1:G:757:GLN:CB	1:G:776:GLU:CG	2.64	0.76
1:J:94:MET:CE	1:J:101:ALA:HB1	2.15	0.76
1:J:635:GLY:HA3	4:W:341:ILE:CD1	2.14	0.76
1:J:725:ARG:HG3	1:J:733:PRO:HA	1.67	0.76
1:D:534:SER:O	4:9:351:THR:N	2.19	0.76
1:D:727:LEU:N	1:D:782:MLY:CE	2.49	0.76
1:D:830:PRO:HB2	2:E:51:PHE:CZ	2.21	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:831:TRP:HZ2	2:E:47:LEU:CA	1.93	0.76
1:G:629:GLU:HA	1:G:643:GLY:C	2.05	0.76
1:G:641:LYS:CE	1:G:647:GLN:HB2	2.13	0.76
1:G:641:LYS:CE	1:G:647:GLN:CG	2.60	0.76
1:J:646:PHE:CE2	1:J:652:LEU:HD21	2.14	0.76
1:J:817:GLN:HG2	2:K:127:ARG:CG	2.15	0.76
3:L:49:ILE:N	3:L:52:ASN:HD22	1.82	0.76
1:P:635:GLY:HA3	4:0:341:ILE:CD1	2.14	0.76
1:P:721:LYS:CA	1:P:736:GLN:OE1	2.33	0.76
4:1:287:ILE:HG13	4:3:202:THR:CA	2.16	0.76
4:V:223:PHE:HD2	4:V:312:ARG:HH21	1.33	0.76
1:A:809:ARG:NH1	2:B:124:GLY:HA2	2.00	0.76
2:B:121:LEU:CG	2:B:128:PHE:HA	2.14	0.76
1:D:721:LYS:CA	1:D:736:GLN:OE1	2.33	0.76
1:D:838:ILE:HD12	2:E:54:MET:HE3	1.49	0.76
1:G:84:MLY:CB	1:G:723:ARG:HD2	2.08	0.76
1:G:817:GLN:HG2	2:H:127:ARG:HB2	1.67	0.76
1:J:829:TRP:CZ3	2:K:84:PHE:CZ	2.74	0.76
4:1:223:PHE:HD2	4:1:312:ARG:HH21	1.33	0.76
4:2:290:ARG:NH2	4:4:202:THR:HG21	1.60	0.76
4:W:291:LYS:HB3	4:Y:244:ASP:HB3	1.66	0.76
1:D:664:LEU:O	1:D:667:THR:HB	1.86	0.76
1:G:530:MET:CG	4:V:354:GLN:CB	2.30	0.76
3:I:3:SER:O	3:I:4:LYS:HB2	1.84	0.76
1:P:767:PHE:CE1	1:P:772:LEU:HD11	2.20	0.76
4:9:290:ARG:NH1	4:W:202:THR:CG2	2.49	0.76
1:A:218:LEU:HB2	1:A:221:GLN:CG	2.09	0.76
1:A:798:LEU:CD1	3:C:126:LEU:CD1	2.57	0.76
1:D:838:ILE:HD13	2:E:54:MET:HE1	1.63	0.76
2:E:111:SER:OG	2:E:148:VAL:C	2.15	0.76
1:G:505:MLY:HD2	1:G:762:HIS:NE2	2.01	0.76
1:G:721:LYS:CA	1:G:736:GLN:OE1	2.33	0.76
1:J:623:PHE:CG	1:J:623:PHE:CA	2.68	0.76
1:P:642:LYS:HG2	4:0:22:ALA:HA	1.65	0.76
1:D:623:PHE:CG	1:D:623:PHE:CA	2.68	0.76
1:D:649:VAL:CG1	1:D:649:VAL:CB	2.64	0.76
1:G:649:VAL:CG1	1:G:649:VAL:CB	2.64	0.76
1:G:795:ARG:HH21	3:I:116:GLU:CB	1.98	0.76
2:H:121:LEU:CG	2:H:128:PHE:HA	2.14	0.76
1:J:538:GLU:OE2	4:W:355:MET:HE3	1.86	0.76
1:P:817:GLN:HB3	2:Q:127:ARG:CD	2.15	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:829:TRP:CZ2	2:Q:87:LYS:HE2	2.20	0.76
4:0:166:TYR:CE1	4:2:64:ILE:HG21	2.21	0.76
1:A:823:PHE:HE1	2:B:160:GLY:HA2	1.34	0.76
2:B:117:LEU:HB2	2:B:147:ASN:HD21	1.47	0.76
2:E:163:ALA:C	2:K:22:THR:N	2.40	0.76
1:G:754:ASP:O	1:G:776:GLU:OE1	2.04	0.76
1:G:757:GLN:OE1	1:G:772:LEU:CA	2.34	0.76
4:8:290:ARG:NH1	4:V:202:THR:CG2	2.49	0.76
1:A:116:TYR:O	1:A:153:PRO:HB2	1.85	0.75
1:A:218:LEU:HB3	1:A:221:GLN:HG3	1.61	0.75
1:A:501:GLU:O	1:A:762:HIS:NE2	2.18	0.75
1:A:733:PRO:C	1:A:737:PHE:HD1	1.88	0.75
1:A:753:VAL:CG1	1:A:775:LEU:CG	2.19	0.75
1:G:534:SER:O	4:V:351:THR:N	2.20	0.75
1:G:732:ILE:N	1:G:733:PRO:HD2	2.00	0.75
3:I:49:ILE:N	3:I:52:ASN:HD22	1.82	0.75
1:J:721:LYS:CA	1:J:736:GLN:OE1	2.33	0.75
1:P:481:ASN:HD22	1:P:481:ASN:N	1.82	0.75
1:P:623:PHE:CG	1:P:623:PHE:CA	2.68	0.75
1:A:664:LEU:O	1:A:667:THR:HB	1.86	0.75
1:A:797:PHE:HE2	3:C:126:LEU:CD2	1.98	0.75
1:A:818:TYR:CB	2:B:90:GLY:N	2.48	0.75
1:D:642:LYS:CG	4:9:23:GLY:H	1.77	0.75
1:D:732:ILE:N	1:D:733:PRO:HD2	2.00	0.75
1:D:795:ARG:CG	3:F:35:ARG:HH12	1.99	0.75
1:J:820:VAL:CG1	2:K:136:MET:HE1	2.16	0.75
1:P:530:MET:HE2	4:0:354:GLN:HG3	1.69	0.75
1:P:817:GLN:HG3	2:Q:128:PHE:CE1	2.21	0.75
4:W:324:THR:CG2	4:Y:247:VAL:HG22	2.16	0.75
1:A:800:ARG:O	3:C:149:VAL:CG2	2.33	0.75
1:G:93:MET:HE2	1:G:764:MLY:HD3	1.67	0.75
1:G:94:MET:CE	1:G:101:ALA:HB1	2.15	0.75
1:J:642:LYS:HG2	4:W:22:ALA:HA	1.65	0.75
1:J:769:ALA:HB2	1:J:770:GLY:CA	2.16	0.75
1:P:538:GLU:O	4:0:349:LEU:HG	1.86	0.75
4:0:205:GLU:CG	4:Y:287:ILE:CB	2.03	0.75
1:A:649:VAL:CG1	1:A:649:VAL:CB	2.64	0.75
1:D:410:ASN:CG	4:9:334:GLU:CA	2.47	0.75
1:D:713:SER:HB2	1:D:775:LEU:HD21	1.68	0.75
1:D:831:TRP:CH2	2:E:34:ILE:CG2	2.64	0.75
1:G:481:ASN:HD22	1:G:481:ASN:N	1.82	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:623:PHE:CG	1:G:623:PHE:CA	2.68	0.75
1:G:817:GLN:CG	2:H:127:ARG:HD2	2.16	0.75
1:J:541:MET:O	4:W:143:TYR:CZ	2.40	0.75
1:P:529:PRO:C	4:0:354:GLN:CB	2.48	0.75
1:P:534:SER:O	4:0:351:THR:N	2.19	0.75
1:P:541:MET:O	4:0:143:TYR:CZ	2.40	0.75
1:P:836:PHE:CZ	2:Q:159:HIS:HA	2.20	0.75
4:3:322:PRO:CB	4:5:244:ASP:HB2	2.14	0.75
1:A:502:GLU:C	1:A:761:GLY:HA3	2.07	0.75
1:A:721:LYS:CA	1:A:736:GLN:OE1	2.33	0.75
1:A:793:ARG:HH21	3:C:147:MET:HE3	1.49	0.75
1:D:727:LEU:N	1:D:782:MLY:HE2	2.02	0.75
2:E:117:LEU:HB2	2:E:147:ASN:HD21	1.47	0.75
1:J:166:MET:HE1	1:J:254:PHE:HB2	1.68	0.75
1:J:733:PRO:C	1:J:737:PHE:HD1	1.88	0.75
1:J:796:GLY:HA2	3:L:35:ARG:NE	2.00	0.75
1:P:732:ILE:N	1:P:733:PRO:HD2	2.01	0.75
1:A:636:LYS:O	1:A:637:LYS:HB2	1.86	0.75
1:D:818:TYR:CB	2:E:90:GLY:N	2.46	0.75
1:G:93:MET:SD	1:G:715:VAL:HA	2.26	0.75
1:G:708:ARG:HA	1:G:712:PRO:CG	2.16	0.75
1:G:783:LEU:O	1:G:787:ILE:CB	2.35	0.75
1:J:350:ALA:O	1:J:354:LEU:HB2	1.87	0.75
1:J:664:LEU:O	1:J:667:THR:HB	1.86	0.75
3:R:3:SER:O	3:R:4:LYS:HB2	1.85	0.75
4:X:287:ILE:CG1	4:Z:201:VAL:CG2	2.63	0.75
1:A:499:GLU:OE2	1:A:766:PHE:CE2	2.40	0.75
1:A:534:SER:O	4:8:351:THR:N	2.18	0.75
2:E:121:LEU:CG	2:E:128:PHE:CA	2.48	0.75
1:G:817:GLN:CD	2:H:127:ARG:HB2	2.06	0.75
1:J:649:VAL:CG1	1:J:649:VAL:CB	2.64	0.75
1:P:646:PHE:CE2	1:P:652:LEU:HD21	2.14	0.75
1:A:350:ALA:O	1:A:354:LEU:HB2	1.87	0.75
3:L:3:SER:O	3:L:4:LYS:HB2	1.84	0.75
1:P:649:VAL:CG1	1:P:649:VAL:CB	2.64	0.75
1:P:735:GLY:C	1:P:743:ALA:HB1	1.84	0.75
4:1:287:ILE:CB	4:3:203:THR:HG22	2.14	0.75
1:A:505:MLY:N	1:A:762:HIS:NE2	2.34	0.75
1:D:538:GLU:O	4:9:349:LEU:HG	1.86	0.75
1:D:769:ALA:C	1:D:774:LEU:CB	2.50	0.75
1:G:218:LEU:HB3	1:G:221:GLN:HG3	1.60	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:757:GLN:CB	1:G:776:GLU:HG2	2.14	0.75
1:G:795:ARG:N	3:I:118:MET:HE1	2.02	0.75
1:G:831:TRP:CH2	2:H:47:LEU:HD23	2.20	0.75
1:P:725:ARG:HG3	1:P:733:PRO:HA	1.67	0.75
4:9:253:GLU:HA	4:9:256:ARG:HG3	1.69	0.75
1:G:636:LYS:O	1:G:637:LYS:HB2	1.86	0.74
1:G:831:TRP:HH2	2:H:47:LEU:HD21	0.92	0.74
1:J:641:LYS:HD2	1:J:647:GLN:OE1	1.81	0.74
1:J:756:THR:CG2	1:J:776:GLU:O	2.26	0.74
1:J:791:GLN:HE21	3:L:115:GLY:HA3	1.51	0.74
1:P:350:ALA:O	1:P:354:LEU:HB2	1.87	0.74
2:Q:117:LEU:CB	2:Q:147:ASN:ND2	2.35	0.74
4:1:253:GLU:HA	4:1:256:ARG:HG3	1.69	0.74
4:2:290:ARG:NH2	4:4:202:THR:HG22	1.97	0.74
1:A:530:MET:CG	4:8:354:GLN:CB	2.30	0.74
1:D:272:MLY:HH13	1:D:435:GLU:OE1	1.87	0.74
1:D:537:GLU:HG3	4:9:350:SER:O	1.78	0.74
1:D:721:LYS:HG2	1:D:736:GLN:CD	1.86	0.74
2:E:117:LEU:CB	2:E:147:ASN:ND2	2.35	0.74
1:G:350:ALA:O	1:G:354:LEU:HB2	1.87	0.74
1:J:310:TYR:CE2	1:J:320:ILE:HD11	2.22	0.74
1:J:732:ILE:N	1:J:733:PRO:HD2	2.01	0.74
4:1:202:THR:HB	4:Z:287:ILE:HG23	0.76	0.74
4:5:253:GLU:HA	4:5:256:ARG:HG3	1.69	0.74
4:7:290:ARG:HH22	4:9:202:THR:HG23	1.50	0.74
4:9:288:ASP:H	4:W:203:THR:HG22	1.52	0.74
4:V:325:MET:HE1	4:X:244:ASP:CG	2.06	0.74
4:X:287:ILE:HG23	4:Z:201:VAL:HG23	1.68	0.74
1:A:481:ASN:HD22	1:A:481:ASN:N	1.82	0.74
1:D:350:ALA:O	1:D:354:LEU:HB2	1.87	0.74
1:D:725:ARG:HG3	1:D:733:PRO:HA	1.67	0.74
1:D:813:ILE:CD1	2:E:128:PHE:CE1	2.66	0.74
1:G:541:MET:O	4:V:143:TYR:CZ	2.40	0.74
1:G:556:ASP:CG	4:X:47:MET:HE2	1.47	0.74
2:H:117:LEU:HB2	2:H:147:ASN:HD21	1.47	0.74
1:P:310:TYR:CE2	1:P:320:ILE:HD11	2.22	0.74
1:P:486:MLY:HH13	1:P:527:GLU:OE1	1.87	0.74
1:P:804:ARG:CZ	3:R:149:VAL:HB	2.18	0.74
4:7:288:ASP:H	4:9:203:THR:HG22	1.52	0.74
1:A:215:GLN:NE2	1:A:336:SER:O	2.20	0.74
1:A:732:ILE:N	1:A:733:PRO:CD	2.51	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:664:LEU:O	1:G:667:THR:HB	1.86	0.74
1:P:410:ASN:CG	4:0:334:GLU:CA	2.47	0.74
1:P:636:LYS:O	1:P:637:LYS:HB2	1.86	0.74
1:P:664:LEU:O	1:P:667:THR:HB	1.86	0.74
1:P:785:GLU:C	1:P:788:THR:OG1	2.25	0.74
1:P:796:GLY:HA3	3:R:40:ASN:CG	2.08	0.74
4:3:253:GLU:HA	4:3:256:ARG:HG3	1.69	0.74
4:W:253:GLU:HA	4:W:256:ARG:HG3	1.70	0.74
1:A:149:GLN:HA	1:A:719:ASP:OD1	1.88	0.74
1:A:538:GLU:O	4:8:349:LEU:HG	1.86	0.74
1:A:640:LYS:O	4:8:23:GLY:O	2.06	0.74
1:G:538:GLU:HA	4:V:349:LEU:HD12	0.74	0.74
1:G:836:PHE:CZ	2:H:159:HIS:HA	2.23	0.74
1:J:534:SER:O	4:W:351:THR:N	2.19	0.74
1:J:640:LYS:O	4:W:23:GLY:O	2.06	0.74
2:Q:121:LEU:CG	2:Q:128:PHE:HA	2.14	0.74
4:Z:253:GLU:HA	4:Z:256:ARG:HG3	1.69	0.74
1:A:530:MET:HE2	4:8:354:GLN:HG3	1.69	0.74
1:A:541:MET:O	4:8:143:TYR:CZ	2.40	0.74
1:D:166:MET:HE1	1:D:254:PHE:HB2	1.69	0.74
1:D:215:GLN:NE2	1:D:336:SER:O	2.20	0.74
1:D:541:MET:O	4:9:143:TYR:CZ	2.40	0.74
1:G:310:TYR:CE2	1:G:320:ILE:HD11	2.22	0.74
1:J:636:LYS:O	1:J:637:LYS:HB2	1.86	0.74
1:J:732:ILE:N	1:J:733:PRO:CD	2.51	0.74
1:P:215:GLN:NE2	1:P:336:SER:O	2.20	0.74
1:P:436:MLY:HE3	1:P:626:TYR:CE1	2.23	0.74
1:P:538:GLU:HA	4:0:349:LEU:HD12	0.75	0.74
1:P:767:PHE:CD1	1:P:772:LEU:CD1	2.70	0.74
4:7:253:GLU:HA	4:7:256:ARG:HG3	1.69	0.74
4:V:325:MET:CE	4:X:244:ASP:OD2	2.34	0.74
4:X:253:GLU:HA	4:X:256:ARG:HG3	1.69	0.74
1:A:409:GLY:HA3	4:8:333:PRO:N	2.03	0.74
1:D:310:TYR:CE2	1:D:320:ILE:HD11	2.22	0.74
1:D:636:LYS:O	1:D:637:LYS:HB2	1.86	0.74
1:G:797:PHE:HE2	3:I:126:LEU:HD13	1.51	0.74
1:P:817:GLN:CB	2:Q:127:ARG:HD2	2.17	0.74
4:8:288:ASP:H	4:V:203:THR:HG22	1.52	0.74
4:8:290:ARG:HH22	4:V:202:THR:HG23	1.50	0.74
1:A:721:LYS:CB	1:A:736:GLN:CD	2.56	0.74
1:D:218:LEU:HD22	1:D:222:ILE:HG12	1.67	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:732:ILE:CD1	1:D:782:MLY:CH1	2.66	0.74
1:D:739:ASP:CB	1:D:742:LYS:HB3	2.12	0.74
1:D:795:ARG:HD2	3:F:35:ARG:HH12	1.53	0.74
2:E:130:PRO:O	2:E:132:GLU:N	2.21	0.74
1:G:502:GLU:OE2	1:G:761:GLY:HA3	1.88	0.74
1:G:791:GLN:HE22	3:I:115:GLY:HA3	0.97	0.74
1:J:538:GLU:HA	4:W:349:LEU:HD12	0.74	0.74
1:J:797:PHE:CE2	3:L:146:ILE:HD12	2.05	0.74
1:J:821:ARG:HH21	2:K:127:ARG:HG2	1.47	0.74
1:J:834:LEU:HD12	2:K:51:PHE:HE1	1.50	0.74
1:P:640:LYS:O	4:0:23:GLY:O	2.06	0.74
1:A:97:LEU:CD2	1:A:712:PRO:HB2	2.18	0.74
1:A:436:MLY:HE3	1:A:626:TYR:CE1	2.23	0.74
1:A:538:GLU:HA	4:8:349:LEU:HD12	0.74	0.74
1:G:505:MLY:HH23	1:G:762:HIS:CE1	0.28	0.74
1:G:791:GLN:HE22	3:I:115:GLY:HA2	1.48	0.74
1:G:834:LEU:HD12	2:H:51:PHE:CE1	2.23	0.74
1:J:793:ARG:NH1	3:L:40:ASN:ND2	2.36	0.74
4:1:202:THR:OG1	4:Z:287:ILE:HG23	1.88	0.74
4:X:287:ILE:HG12	4:Z:201:VAL:CG2	2.18	0.74
1:A:310:TYR:CE2	1:A:320:ILE:HD11	2.22	0.74
1:A:486:MLY:HH13	1:A:527:GLU:OE1	1.88	0.74
1:A:530:MET:CE	4:8:355:MET:SD	2.76	0.74
1:A:735:GLY:CA	1:A:743:ALA:HA	2.18	0.74
1:D:538:GLU:HA	4:9:349:LEU:HD12	0.74	0.74
1:G:755:HIS:HB2	1:G:779:ARG:HH22	1.52	0.74
1:G:795:ARG:NE	3:I:116:GLU:CD	2.40	0.74
1:J:486:MLY:HH13	1:J:527:GLU:OE1	1.87	0.74
1:J:529:PRO:C	4:W:354:GLN:CB	2.49	0.74
1:J:537:GLU:HG3	4:W:350:SER:O	1.78	0.74
1:J:538:GLU:O	4:W:349:LEU:HG	1.86	0.74
2:K:130:PRO:O	2:K:132:GLU:N	2.21	0.74
1:P:640:LYS:O	1:P:645:SER:OG	2.06	0.74
1:P:721:LYS:CB	1:P:736:GLN:CD	2.56	0.74
4:0:253:GLU:HA	4:0:256:ARG:HG3	1.69	0.74
4:X:287:ILE:HG13	4:Z:201:VAL:HG23	1.69	0.74
4:Y:253:GLU:HA	4:Y:256:ARG:HG3	1.69	0.74
1:A:529:PRO:C	4:8:354:GLN:CB	2.49	0.73
2:B:130:PRO:O	2:B:132:GLU:N	2.21	0.73
1:D:409:GLY:HA3	4:9:333:PRO:N	2.03	0.73
1:D:557:GLU:N	4:W:48:GLY:HA3	1.90	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:640:LYS:O	4:9:23:GLY:O	2.06	0.73
1:J:94:MET:O	1:J:713:SER:CA	2.35	0.73
1:J:272:MLY:HH13	1:J:435:GLU:OE1	1.88	0.73
1:J:510:TRP:CH2	1:J:772:LEU:HD11	2.23	0.73
1:P:272:MLY:HH13	1:P:435:GLU:OE1	1.88	0.73
1:P:410:ASN:OD1	4:0:335:ARG:N	2.21	0.73
1:P:735:GLY:CA	1:P:743:ALA:HA	2.18	0.73
4:0:205:GLU:CG	4:Y:287:ILE:CD1	2.66	0.73
4:V:253:GLU:HA	4:V:256:ARG:HG3	1.69	0.73
4:X:287:ILE:HG12	4:Z:201:VAL:HG23	1.70	0.73
1:A:530:MET:HE1	4:8:355:MET:SD	2.28	0.73
1:A:635:GLY:HA3	4:8:341:ILE:CD1	2.14	0.73
1:A:819:ASN:OD1	2:B:91:ALA:CA	2.30	0.73
1:G:215:GLN:NE2	1:G:336:SER:O	2.20	0.73
2:H:130:PRO:O	2:H:132:GLU:N	2.21	0.73
4:8:253:GLU:HA	4:8:256:ARG:HG3	1.69	0.73
1:A:542:PHE:CD2	4:8:143:TYR:CE1	2.76	0.73
1:D:436:MLY:HE3	1:D:626:TYR:CE1	2.23	0.73
1:D:487:LEU:O	1:D:490:PHE:HB3	1.88	0.73
1:G:829:TRP:CH2	2:H:83:MET:HE3	2.22	0.73
1:J:436:MLY:HE3	1:J:626:TYR:CE1	2.23	0.73
1:P:785:GLU:C	1:P:788:THR:HB	2.09	0.73
1:D:530:MET:CG	4:9:354:GLN:CB	2.30	0.73
1:G:817:GLN:CG	2:H:127:ARG:HB2	2.18	0.73
1:J:792:ALA:HB1	3:L:42:THR:N	2.02	0.73
1:P:190:MLY:HE3	1:P:230:GLU:OE2	1.89	0.73
1:P:536:LEU:HD13	1:P:550:PHE:CZ	2.24	0.73
3:R:24:LYS:CA	3:R:63:ILE:O	2.37	0.73
1:A:237:THR:HG22	1:A:239:ARG:H	1.53	0.73
1:D:534:SER:CA	4:9:351:THR:HA	2.18	0.73
1:D:732:ILE:N	1:D:733:PRO:CD	2.51	0.73
1:D:798:LEU:CG	3:F:126:LEU:HD11	2.18	0.73
1:G:190:MLY:HE3	1:G:230:GLU:OE2	1.89	0.73
1:G:409:GLY:HA3	4:V:333:PRO:N	2.03	0.73
1:G:735:GLY:CA	1:G:743:ALA:HA	2.17	0.73
1:J:441:MET:O	1:J:445:ILE:HG13	1.88	0.73
1:J:534:SER:CA	4:W:351:THR:HA	2.19	0.73
1:P:441:MET:O	1:P:445:ILE:HG13	1.88	0.73
1:P:487:LEU:O	1:P:490:PHE:HB3	1.88	0.73
1:P:836:PHE:CE2	2:Q:160:GLY:CA	2.72	0.73
4:0:243:PRO:N	4:Y:291:LYS:HE3	2.03	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:1:202:THR:HA	4:Z:287:ILE:CG1	2.18	0.73
1:A:85:TYR:HH	1:A:772:LEU:HD23	0.91	0.73
2:B:144:VAL:CB	2:B:153:ILE:HD11	2.19	0.73
1:D:542:PHE:CD2	4:9:143:TYR:CE1	2.77	0.73
1:G:487:LEU:O	1:G:490:PHE:HB3	1.89	0.73
1:G:536:LEU:HD13	1:G:550:PHE:CZ	2.24	0.73
1:G:819:ASN:N	2:H:90:GLY:O	2.20	0.73
2:H:144:VAL:CB	2:H:153:ILE:HD11	2.19	0.73
3:I:24:LYS:CA	3:I:63:ILE:O	2.37	0.73
1:J:93:MET:HA	1:J:714:ARG:H	1.53	0.73
1:J:640:LYS:O	1:J:645:SER:OG	2.06	0.73
1:J:754:ASP:CG	1:J:780:ASP:OD2	2.14	0.73
1:P:530:MET:CE	4:0:355:MET:SD	2.77	0.73
4:1:204:ALA:N	4:Z:287:ILE:HG21	2.03	0.73
4:2:253:GLU:HA	4:2:256:ARG:HG3	1.69	0.73
1:A:131:TRP:C	1:A:132:LEU:HD12	2.09	0.73
1:A:149:GLN:CG	1:A:718:ALA:HB3	2.17	0.73
1:A:800:ARG:C	3:C:149:VAL:CG2	2.56	0.73
1:D:530:MET:CE	4:9:355:MET:SD	2.77	0.73
1:D:797:PHE:CE1	3:F:146:ILE:CB	2.72	0.73
1:G:436:MLY:HE3	1:G:626:TYR:CE1	2.23	0.73
1:J:530:MET:CE	4:W:355:MET:SD	2.77	0.73
1:J:802:GLU:O	1:J:806:MET:HG3	1.89	0.73
1:J:817:GLN:HB3	2:K:127:ARG:HH11	1.54	0.73
1:J:818:TYR:CG	2:K:127:ARG:NH1	2.57	0.73
4:1:43:VAL:O	4:Z:167:GLU:OE1	2.06	0.73
1:A:536:LEU:HD13	1:A:550:PHE:CZ	2.24	0.73
1:D:190:MLY:HE3	1:D:230:GLU:OE2	1.89	0.73
1:D:441:MET:O	1:D:445:ILE:HG13	1.88	0.73
3:F:24:LYS:CA	3:F:63:ILE:O	2.37	0.73
1:G:538:GLU:O	4:V:349:LEU:HG	1.87	0.73
1:J:190:MLY:HE3	1:J:230:GLU:OE2	1.89	0.73
1:J:237:THR:HG22	1:J:239:ARG:H	1.54	0.73
1:J:487:LEU:O	1:J:490:PHE:HB3	1.89	0.73
1:J:789:ALA:CB	3:L:81:GLN:CD	2.58	0.73
1:J:797:PHE:CE1	3:L:146:ILE:CB	2.71	0.73
1:P:530:MET:HE1	4:0:355:MET:SD	2.29	0.73
1:P:534:SER:CA	4:0:351:THR:HA	2.19	0.73
2:Q:130:PRO:O	2:Q:132:GLU:N	2.21	0.73
1:A:502:GLU:HG3	1:A:760:PHE:C	2.08	0.73
1:A:641:LYS:HD2	1:A:647:GLN:OE1	1.81	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:813:ILE:HG12	2:B:128:PHE:HE1	1.54	0.73
1:D:410:ASN:OD1	4:9:335:ARG:N	2.22	0.73
1:G:272:MLY:HH13	1:G:435:GLU:OE1	1.88	0.73
1:G:410:ASN:OD1	4:V:335:ARG:N	2.21	0.73
1:G:486:MLY:HH13	1:G:527:GLU:OE1	1.88	0.73
1:G:640:LYS:O	4:V:23:GLY:O	2.06	0.73
1:G:818:TYR:HH	2:H:127:ARG:HH22	1.34	0.73
4:3:288:ASP:CB	4:5:203:THR:CG2	2.66	0.73
4:9:290:ARG:HH22	4:W:202:THR:HG23	1.50	0.73
1:A:410:ASN:OD1	4:8:335:ARG:N	2.22	0.73
1:D:618:THR:O	1:D:622:LEU:HD13	1.89	0.73
1:D:735:GLY:CA	1:D:743:ALA:HA	2.18	0.73
1:G:732:ILE:N	1:G:733:PRO:CD	2.51	0.73
1:J:295:MLY:HG3	1:J:332:MET:CE	2.19	0.73
1:J:710:GLY:C	1:J:772:LEU:HD22	2.07	0.73
1:P:290:GLN:C	1:P:331:LEU:HD12	2.09	0.73
1:P:409:GLY:HA3	4:0:333:PRO:N	2.03	0.73
4:2:288:ASP:H	4:4:203:THR:CG2	1.98	0.73
1:A:272:MLY:HH13	1:A:435:GLU:OE1	1.88	0.72
1:A:534:SER:CA	4:8:351:THR:HA	2.18	0.72
1:A:831:TRP:HH2	2:B:50:THR:HB	0.88	0.72
2:E:144:VAL:CB	2:E:153:ILE:HD11	2.19	0.72
1:G:791:GLN:OE1	3:I:116:GLU:HG3	1.89	0.72
1:J:21:GLU:O	1:J:25:ILE:HG13	1.89	0.72
1:J:215:GLN:NE2	1:J:336:SER:O	2.21	0.72
1:J:410:ASN:OD1	4:W:335:ARG:N	2.21	0.72
1:P:542:PHE:CD2	4:0:143:TYR:CE1	2.77	0.72
3:C:24:LYS:CA	3:C:63:ILE:O	2.37	0.72
1:D:214:MET:HA	1:D:340:ILE:HD11	1.71	0.72
1:G:97:LEU:HD23	1:G:712:PRO:HB3	0.78	0.72
1:G:802:GLU:O	1:G:806:MET:HG3	1.89	0.72
1:J:97:LEU:HD22	1:J:712:PRO:HB2	1.70	0.72
1:J:542:PHE:CD2	4:W:143:TYR:CE1	2.77	0.72
1:J:618:THR:O	1:J:622:LEU:HD13	1.89	0.72
1:J:721:LYS:HG2	1:J:736:GLN:CD	1.86	0.72
1:J:721:LYS:CB	1:J:736:GLN:CD	2.56	0.72
4:0:110:LEU:O	4:1:195:GLU:CA	2.34	0.72
4:3:287:ILE:HB	4:5:203:THR:HG22	1.69	0.72
1:D:486:MLY:HH13	1:D:527:GLU:OE1	1.88	0.72
1:D:536:LEU:HD13	1:D:550:PHE:CZ	2.24	0.72
1:D:732:ILE:HD13	1:D:782:MLY:HH21	1.70	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:733:PRO:C	1:D:737:PHE:HD1	1.88	0.72
1:G:214:MET:HA	1:G:340:ILE:HD11	1.70	0.72
1:G:410:ASN:CG	4:V:334:GLU:CA	2.47	0.72
1:G:635:GLY:HA3	4:V:341:ILE:CD1	2.14	0.72
1:J:769:ALA:CB	1:J:770:GLY:HA2	2.18	0.72
1:P:21:GLU:O	1:P:25:ILE:HG13	1.89	0.72
1:P:732:ILE:N	1:P:733:PRO:CD	2.51	0.72
2:Q:121:LEU:CG	2:Q:128:PHE:CA	2.49	0.72
1:A:441:MET:O	1:A:445:ILE:HG13	1.88	0.72
1:D:36:SER:O	1:D:52:ILE:HG12	1.90	0.72
1:D:237:THR:HG22	1:D:239:ARG:H	1.54	0.72
1:D:641:LYS:HD2	1:D:647:GLN:OE1	1.81	0.72
1:D:831:TRP:CE3	2:E:34:ILE:HD13	2.24	0.72
1:D:834:LEU:CD2	2:E:54:MET:HE2	2.15	0.72
1:G:21:GLU:O	1:G:25:ILE:HG13	1.89	0.72
1:J:735:GLY:CA	1:J:743:ALA:HA	2.18	0.72
1:P:131:TRP:C	1:P:132:LEU:HD12	2.09	0.72
1:P:792:ALA:HB2	3:R:81:GLN:HE22	1.54	0.72
4:2:3:ASP:HA	4:2:6:THR:CB	2.18	0.72
4:4:253:GLU:HA	4:4:256:ARG:HG3	1.70	0.72
1:A:486:MLY:HH22	1:A:527:GLU:OE2	1.90	0.72
1:A:519:LEU:HD12	1:A:519:LEU:N	2.04	0.72
1:D:295:MLY:HG3	1:D:332:MET:CE	2.20	0.72
1:D:640:LYS:O	1:D:645:SER:OG	2.06	0.72
2:E:163:ALA:C	2:K:22:THR:H	1.92	0.72
1:G:618:THR:O	1:G:622:LEU:HD13	1.89	0.72
1:G:640:LYS:O	1:G:645:SER:OG	2.06	0.72
2:H:117:LEU:HD12	2:H:147:ASN:CA	2.20	0.72
1:J:36:SER:O	1:J:52:ILE:HG12	1.90	0.72
1:J:214:MET:HA	1:J:340:ILE:HD11	1.70	0.72
1:J:536:LEU:HD13	1:J:550:PHE:CZ	2.24	0.72
1:J:756:THR:CG2	1:J:776:GLU:HB3	2.15	0.72
2:K:144:VAL:CB	2:K:153:ILE:HD11	2.19	0.72
1:P:36:SER:O	1:P:52:ILE:HG12	1.89	0.72
1:P:754:ASP:HB3	1:P:757:GLN:HG2	1.72	0.72
1:A:290:GLN:C	1:A:331:LEU:HD12	2.09	0.72
1:A:802:GLU:O	1:A:806:MET:HG3	1.89	0.72
1:D:21:GLU:O	1:D:25:ILE:HG13	1.89	0.72
1:D:762:HIS:H	1:D:762:HIS:CD2	2.08	0.72
1:G:769:ALA:HB1	1:G:770:GLY:CA	2.06	0.72
1:J:409:GLY:HA3	4:W:333:PRO:N	2.03	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:117:LEU:HD12	2:K:147:ASN:CA	2.19	0.72
3:L:24:LYS:CA	3:L:63:ILE:O	2.37	0.72
1:P:725:ARG:HH21	3:R:93:VAL:CB	2.02	0.72
1:P:817:GLN:HB3	2:Q:127:ARG:HH11	1.53	0.72
4:1:3:ASP:HA	4:1:6:THR:CB	2.18	0.72
4:2:322:PRO:HB2	4:4:244:ASP:HB3	1.70	0.72
4:8:3:ASP:HA	4:8:6:THR:CB	2.18	0.72
1:A:754:ASP:HB3	1:A:757:GLN:HG2	1.72	0.72
1:A:762:HIS:CD2	1:A:762:HIS:H	2.08	0.72
1:D:217:THR:C	1:D:221:GLN:HE21	1.92	0.72
1:D:486:MLY:HH22	1:D:527:GLU:OE2	1.90	0.72
1:G:176:LEU:HD12	1:G:176:LEU:N	2.05	0.72
1:G:530:MET:CE	4:V:355:MET:SD	2.78	0.72
1:J:831:TRP:HZ3	2:K:34:ILE:HD13	1.55	0.72
1:P:84:MLY:HH22	1:P:723:ARG:HB3	1.70	0.72
1:P:817:GLN:HB3	2:Q:127:ARG:HD3	1.72	0.72
2:Q:136:MET:O	2:Q:140:PHE:HB2	1.90	0.72
4:0:288:ASP:OD2	4:2:63:GLY:HA2	1.88	0.72
4:3:3:ASP:HA	4:3:6:THR:CB	2.18	0.72
4:V:286:ASP:OD1	4:X:203:THR:N	2.23	0.72
1:A:36:SER:O	1:A:52:ILE:HG12	1.89	0.72
1:A:149:GLN:CG	1:A:719:ASP:N	2.46	0.72
1:A:793:ARG:HH21	3:C:147:MET:HE1	1.54	0.72
1:G:486:MLY:HH22	1:G:527:GLU:OE2	1.90	0.72
1:G:721:LYS:CB	1:G:736:GLN:CD	2.56	0.72
1:G:733:PRO:C	1:G:737:PHE:HD1	1.88	0.72
1:J:176:LEU:HD12	1:J:176:LEU:N	2.05	0.72
1:P:176:LEU:HD12	1:P:176:LEU:N	2.05	0.72
1:P:618:THR:O	1:P:622:LEU:HD13	1.89	0.72
1:P:786:ILE:C	1:P:788:THR:N	2.42	0.72
4:1:203:THR:CB	4:Z:287:ILE:HB	2.19	0.72
4:2:287:ILE:CD1	4:4:203:THR:HB	2.19	0.72
1:D:530:MET:HE2	4:9:354:GLN:HG3	1.72	0.72
1:D:802:GLU:O	1:D:806:MET:HG3	1.89	0.72
1:G:131:TRP:C	1:G:132:LEU:HD12	2.09	0.72
1:G:290:GLN:C	1:G:331:LEU:HD12	2.09	0.72
1:G:441:MET:O	1:G:445:ILE:HG13	1.88	0.72
1:G:506:GLU:OE2	1:G:760:PHE:O	2.07	0.72
1:G:739:ASP:CB	1:G:742:LYS:HB3	2.12	0.72
1:G:755:HIS:N	1:G:779:ARG:NH1	2.38	0.72
1:G:795:ARG:CG	3:I:118:MET:HE2	2.11	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:131:TRP:C	1:J:132:LEU:HD12	2.10	0.72
1:J:486:MLY:HH22	1:J:527:GLU:OE2	1.90	0.72
4:7:290:ARG:NH1	4:9:202:THR:CG2	2.49	0.72
4:9:3:ASP:HA	4:9:6:THR:CB	2.18	0.72
4:X:324:THR:HB	4:Z:247:VAL:H	1.55	0.72
1:A:14:ALA:HB3	1:A:15:PRO:HD3	1.72	0.72
1:A:21:GLU:O	1:A:25:ILE:HG13	1.89	0.72
1:A:166:MET:HE1	1:A:254:PHE:HB2	1.72	0.72
1:A:190:MLY:HE3	1:A:230:GLU:OE2	1.89	0.72
1:A:487:LEU:O	1:A:490:PHE:HB3	1.89	0.72
2:B:117:LEU:HD12	2:B:147:ASN:CA	2.20	0.72
2:B:136:MET:O	2:B:140:PHE:HB2	1.90	0.72
1:D:176:LEU:HD12	1:D:176:LEU:N	2.05	0.72
1:D:290:GLN:C	1:D:331:LEU:HD12	2.09	0.72
1:D:292:MET:HE3	1:D:309:PRO:HA	1.71	0.72
1:G:14:ALA:HB3	1:G:15:PRO:HD3	1.72	0.72
1:J:290:GLN:C	1:J:331:LEU:HD12	2.09	0.72
1:P:295:MLY:HG3	1:P:332:MET:CE	2.19	0.72
1:P:486:MLY:HH22	1:P:527:GLU:OE2	1.90	0.72
1:P:546:THR:HG21	4:2:48:GLY:HA2	1.71	0.72
4:1:287:ILE:HG21	4:3:202:THR:OG1	1.89	0.72
4:1:288:ASP:H	4:3:203:THR:HG22	1.54	0.72
1:A:217:THR:O	1:A:220:ASP:HB2	1.90	0.71
1:D:131:TRP:C	1:D:132:LEU:HD12	2.09	0.71
1:G:237:THR:HG22	1:G:239:ARG:H	1.54	0.71
1:G:519:LEU:HD12	1:G:519:LEU:N	2.04	0.71
1:G:542:PHE:CD2	4:V:143:TYR:CE1	2.78	0.71
1:J:757:GLN:N	1:J:776:GLU:HB3	2.05	0.71
1:J:834:LEU:HD12	2:K:51:PHE:CE1	2.24	0.71
1:P:214:MET:HA	1:P:340:ILE:HD11	1.70	0.71
1:A:795:ARG:NH2	3:C:116:GLU:HB3	2.03	0.71
1:D:519:LEU:HD12	1:D:519:LEU:N	2.04	0.71
1:G:36:SER:O	1:G:52:ILE:HG12	1.90	0.71
1:J:83:PRO:O	1:J:723:ARG:NH2	2.23	0.71
2:K:136:MET:O	2:K:140:PHE:HB2	1.90	0.71
1:P:166:MET:HE1	1:P:254:PHE:HB2	1.72	0.71
1:P:836:PHE:CE2	2:Q:160:GLY:HA3	2.25	0.71
4:1:324:THR:OG1	4:3:244:ASP:N	2.17	0.71
4:X:324:THR:HB	4:Z:246:GLN:CA	2.20	0.71
1:A:217:THR:C	1:A:221:GLN:HE21	1.93	0.71
1:D:217:THR:O	1:D:220:ASP:HB2	1.90	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:817:GLN:OE1	2:H:127:ARG:CD	2.29	0.71
1:J:72:VAL:HG13	1:J:76:GLN:CB	2.19	0.71
1:P:237:THR:HG22	1:P:239:ARG:H	1.54	0.71
1:P:505:MLY:CG	1:P:762:HIS:HE2	2.03	0.71
4:1:202:THR:C	4:Z:287:ILE:HG21	2.09	0.71
4:1:203:THR:CG2	4:Z:288:ASP:N	2.52	0.71
1:A:295:MLY:HG3	1:A:332:MET:CE	2.19	0.71
1:A:800:ARG:HH22	3:C:40:ASN:HD21	0.73	0.71
1:G:84:MLY:CB	1:G:723:ARG:CZ	2.64	0.71
1:G:557:GLU:HA	4:X:48:GLY:CA	2.18	0.71
1:G:754:ASP:CA	1:G:776:GLU:CD	2.57	0.71
1:J:217:THR:C	1:J:221:GLN:HE21	1.92	0.71
1:J:519:LEU:HD12	1:J:519:LEU:N	2.04	0.71
1:P:86:ASP:OD2	1:P:87:MLY:HH13	1.91	0.71
1:P:217:THR:C	1:P:221:GLN:HE21	1.92	0.71
1:P:245:ARG:HD3	1:P:271:GLU:OE1	1.90	0.71
4:Z:3:ASP:HA	4:Z:6:THR:CB	2.18	0.71
1:A:618:THR:O	1:A:622:LEU:HD13	1.89	0.71
1:D:245:ARG:HD3	1:D:271:GLU:OE1	1.90	0.71
1:D:754:ASP:HB3	1:D:757:GLN:HG2	1.72	0.71
1:D:814:PHE:CA	2:E:127:ARG:HH11	1.93	0.71
1:J:295:MLY:HG3	1:J:332:MET:HE1	1.72	0.71
1:P:217:THR:O	1:P:220:ASP:HB2	1.91	0.71
1:P:819:ASN:HD21	2:Q:92:ASP:CB	1.85	0.71
4:5:3:ASP:HA	4:5:6:THR:CB	2.18	0.71
4:V:287:ILE:HD11	4:X:201:VAL:O	1.75	0.71
1:A:214:MET:HA	1:A:340:ILE:HD11	1.71	0.71
1:D:56:GLU:CB	1:D:59:MLY:HB3	2.19	0.71
1:D:727:LEU:H	1:D:782:MLY:HH22	1.56	0.71
1:G:534:SER:CA	4:V:351:THR:HA	2.20	0.71
1:P:519:LEU:N	1:P:519:LEU:HD12	2.04	0.71
4:2:287:ILE:CG2	4:4:204:ALA:H	2.04	0.71
4:X:3:ASP:HA	4:X:6:THR:CB	2.18	0.71
1:A:93:MET:HE2	1:A:715:VAL:HA	0.80	0.71
1:A:640:LYS:O	1:A:645:SER:OG	2.06	0.71
1:A:797:PHE:CE1	3:C:146:ILE:C	2.63	0.71
1:D:86:ASP:OD2	1:D:87:MLY:HH13	1.91	0.71
1:D:712:PRO:HB2	1:D:771:LEU:HD22	1.72	0.71
1:G:217:THR:C	1:G:221:GLN:HE21	1.92	0.71
1:G:505:MLY:HH22	1:G:762:HIS:HE1	0.54	0.71
1:J:93:MET:SD	1:J:716:LEU:N	2.63	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:14:ALA:HB3	1:P:15:PRO:HD3	1.72	0.71
1:P:707:CYS:SG	1:P:714:ARG:NH2	2.63	0.71
4:2:287:ILE:HB	4:4:204:ALA:H	1.55	0.71
1:A:56:GLU:CB	1:A:59:MLY:HB3	2.20	0.71
1:A:206:LYS:HD3	1:A:217:THR:HG23	0.71	0.71
1:A:799:MET:HE1	3:C:32:ASP:HB3	1.70	0.71
3:C:4:LYS:N	3:C:5:ALA:O	2.16	0.71
1:G:274:ARG:NH2	1:G:282:GLU:OE1	2.24	0.71
1:J:762:HIS:H	1:J:762:HIS:CD2	2.07	0.71
1:J:795:ARG:CZ	3:L:116:GLU:OE1	2.39	0.71
4:X:286:ASP:OD1	4:Z:203:THR:N	2.24	0.71
1:A:798:LEU:CD1	3:C:126:LEU:CD2	2.52	0.71
1:D:14:ALA:HB3	1:D:15:PRO:HD3	1.72	0.71
1:G:86:ASP:OD2	1:G:87:MLY:HH13	1.91	0.71
1:G:295:MLY:HG3	1:G:332:MET:CE	2.20	0.71
1:J:56:GLU:CB	1:J:59:MLY:HB3	2.19	0.71
1:J:274:ARG:NH2	1:J:282:GLU:OE1	2.24	0.71
1:P:733:PRO:C	1:P:737:PHE:CD1	2.62	0.71
4:1:287:ILE:HG23	4:3:202:THR:HB	0.88	0.71
4:7:3:ASP:HA	4:7:6:THR:CB	2.18	0.71
1:D:809:ARG:NH2	2:E:120:LEU:HD11	2.06	0.71
1:G:829:TRP:HH2	2:H:83:MET:HE3	1.54	0.71
1:J:530:MET:HE2	4:W:354:GLN:HG3	1.73	0.71
1:A:245:ARG:HD3	1:A:271:GLU:OE1	1.90	0.70
1:A:502:GLU:HG2	1:A:764:MLY:O	1.90	0.70
1:D:579:PHE:HD2	1:D:592:ILE:HD11	1.56	0.70
1:D:721:LYS:CB	1:D:736:GLN:CD	2.56	0.70
1:G:166:MET:HE1	1:G:254:PHE:HB2	1.72	0.70
1:J:818:TYR:CD1	2:K:127:ARG:CZ	2.73	0.70
3:L:4:LYS:N	3:L:5:ALA:O	2.16	0.70
1:P:630:ALA:O	4:0:25:ASP:HB2	1.91	0.70
1:P:831:TRP:HZ2	2:Q:47:LEU:CD2	1.98	0.70
2:Q:150:TYR:C	2:Q:151:LYS:CG	2.48	0.70
1:G:245:ARG:HD3	1:G:271:GLU:OE1	1.90	0.70
1:G:556:ASP:OD2	4:X:47:MET:HE2	1.89	0.70
1:G:795:ARG:NH2	3:I:116:GLU:CB	2.54	0.70
1:G:813:ILE:HG23	2:H:128:PHE:HZ	1.50	0.70
1:G:834:LEU:HD13	2:H:51:PHE:CE1	2.25	0.70
1:J:245:ARG:HD3	1:J:271:GLU:OE1	1.90	0.70
1:J:505:MLY:HG3	1:J:762:HIS:HE1	1.52	0.70
1:P:206:LYS:HD3	1:P:217:THR:HG23	0.71	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:144:VAL:CB	2:Q:153:ILE:HD11	2.19	0.70
4:0:204:ALA:CB	4:Y:288:ASP:CB	2.67	0.70
4:V:3:ASP:HA	4:V:6:THR:CB	2.18	0.70
4:W:324:THR:HG23	4:Y:247:VAL:HG22	1.70	0.70
1:A:72:VAL:HG13	1:A:76:GLN:CB	2.19	0.70
1:A:176:LEU:N	1:A:176:LEU:HD12	2.05	0.70
1:D:577:ALA:O	1:D:578:HIS:CG	2.45	0.70
1:D:643:GLY:N	4:9:24:ASP:CA	2.46	0.70
1:D:795:ARG:NH2	3:F:116:GLU:OE1	2.23	0.70
1:J:14:ALA:HB3	1:J:15:PRO:HD3	1.73	0.70
1:J:213:LYS:HA	1:J:220:ASP:OD1	1.92	0.70
1:J:217:THR:O	1:J:220:ASP:HB2	1.91	0.70
1:P:274:ARG:NH2	1:P:282:GLU:OE1	2.24	0.70
2:Q:117:LEU:HD12	2:Q:147:ASN:CA	2.19	0.70
1:A:86:ASP:OD2	1:A:87:MLY:HH13	1.91	0.70
1:A:274:ARG:NH2	1:A:282:GLU:OE1	2.24	0.70
3:C:48:LYS:HB3	3:C:52:ASN:HD21	1.57	0.70
1:D:72:VAL:HG13	1:D:76:GLN:CB	2.19	0.70
1:D:732:ILE:HG21	1:D:747:LEU:HD11	0.72	0.70
1:D:769:ALA:O	1:D:774:LEU:CG	2.39	0.70
1:G:28:GLN:OE1	1:G:723:ARG:NH1	2.25	0.70
1:G:754:ASP:CB	1:G:776:GLU:OE1	2.39	0.70
1:G:829:TRP:CZ2	2:H:83:MET:HE1	2.26	0.70
1:G:829:TRP:CH2	2:H:87:LYS:HE2	2.27	0.70
3:I:25:ILE:O	3:I:63:ILE:HB	1.92	0.70
1:J:206:LYS:HD3	1:J:217:THR:HG23	0.70	0.70
1:J:630:ALA:O	4:W:25:ASP:HB2	1.91	0.70
1:J:754:ASP:HB3	1:J:757:GLN:HG2	1.71	0.70
1:J:756:THR:HG22	1:J:776:GLU:OE1	1.87	0.70
1:P:577:ALA:O	1:P:578:HIS:CG	2.44	0.70
1:P:762:HIS:CD2	1:P:762:HIS:H	2.07	0.70
1:P:796:GLY:CA	3:R:40:ASN:HB3	2.21	0.70
1:A:733:PRO:C	1:A:737:PHE:CD1	2.62	0.70
1:D:747:LEU:HD21	1:D:782:MLY:HH11	1.74	0.70
1:D:810:ARG:HG2	1:D:810:ARG:HH11	1.57	0.70
1:G:732:ILE:HG23	1:G:747:LEU:CB	1.84	0.70
1:J:86:ASP:OD2	1:J:87:MLY:HH13	1.91	0.70
1:J:831:TRP:NE1	2:K:67:MET:HB3	2.03	0.70
1:P:213:LYS:HA	1:P:220:ASP:OD1	1.92	0.70
4:3:1:ASP:HA	4:3:4:GLU:HB3	1.74	0.70
1:A:123:CYS:HB2	1:A:158:ILE:HD11	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:501:GLU:HG2	1:A:762:HIS:CE1	2.24	0.70
1:D:727:LEU:H	1:D:782:MLY:CE	2.04	0.70
1:G:798:LEU:HG	3:I:122:GLU:HB3	1.73	0.70
1:A:795:ARG:CD	3:C:43:ASN:CG	2.60	0.70
1:A:834:LEU:HD22	2:B:54:MET:HE2	1.72	0.70
1:D:213:LYS:HA	1:D:220:ASP:OD1	1.92	0.70
1:D:274:ARG:NH2	1:D:282:GLU:OE1	2.24	0.70
1:D:641:LYS:HD2	4:9:348:SER:HA	1.72	0.70
1:G:123:CYS:HB2	1:G:158:ILE:HD11	1.73	0.70
1:G:217:THR:O	1:G:220:ASP:HB2	1.91	0.70
1:J:577:ALA:O	1:J:578:HIS:CG	2.45	0.70
1:J:791:GLN:NE2	3:L:115:GLY:HA3	2.06	0.70
1:P:123:CYS:HB2	1:P:158:ILE:HD11	1.73	0.70
4:0:3:ASP:HA	4:0:6:THR:CB	2.18	0.70
4:0:287:ILE:HG21	4:2:203:THR:HG22	0.72	0.70
4:W:324:THR:HG23	4:Y:247:VAL:H	1.45	0.70
1:A:813:ILE:CG1	2:B:128:PHE:HE1	2.04	0.70
1:D:550:PHE:HA	4:W:46:GLY:HA3	1.66	0.70
1:D:831:TRP:CD1	2:E:51:PHE:CZ	2.76	0.70
2:E:136:MET:O	2:E:140:PHE:HB2	1.90	0.70
1:G:56:GLU:CB	1:G:59:MLY:HB3	2.19	0.70
1:G:817:GLN:HG3	2:H:128:PHE:CE1	2.26	0.70
1:G:834:LEU:HD21	2:H:34:ILE:HG12	1.74	0.70
2:H:136:MET:O	2:H:140:PHE:HB2	1.90	0.70
1:J:123:CYS:HB2	1:J:158:ILE:HD11	1.73	0.70
1:J:797:PHE:HE1	3:L:146:ILE:CA	2.04	0.70
1:J:810:ARG:HG2	1:J:810:ARG:HH11	1.57	0.70
1:J:818:TYR:CE1	2:K:127:ARG:NH1	2.58	0.70
4:X:1:ASP:HA	4:X:4:GLU:HB3	1.74	0.70
4:Y:3:ASP:HA	4:Y:6:THR:CB	2.18	0.70
1:A:499:GLU:CD	1:A:766:PHE:CE2	2.65	0.70
1:A:546:THR:HG22	1:A:548:THR:N	2.05	0.70
1:A:787:ILE:HG22	1:A:788:THR:N	2.07	0.70
1:D:206:LYS:HD3	1:D:217:THR:HG23	0.71	0.70
1:G:579:PHE:HD2	1:G:592:ILE:HD11	1.57	0.70
1:G:795:ARG:CZ	3:I:116:GLU:CB	2.67	0.70
1:J:641:LYS:HD2	4:W:348:SER:HA	1.72	0.70
1:P:218:LEU:HB2	1:P:221:GLN:CG	2.09	0.70
1:P:813:ILE:CG2	2:Q:128:PHE:HE1	2.02	0.70
1:A:579:PHE:HD2	1:A:592:ILE:HD11	1.57	0.70
1:D:123:CYS:HB2	1:D:158:ILE:HD11	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:733:PRO:C	1:D:737:PHE:CD1	2.62	0.70
1:G:97:LEU:HD22	1:G:712:PRO:HB2	1.72	0.70
1:G:829:TRP:CE3	2:H:87:LYS:NZ	2.59	0.70
1:J:215:GLN:CA	1:J:340:ILE:CG2	2.62	0.70
2:K:111:SER:OG	2:K:148:VAL:HG12	1.92	0.70
1:P:84:MLY:HB3	1:P:723:ARG:HE	1.56	0.70
4:0:287:ILE:HG21	4:2:203:THR:CB	2.22	0.70
4:1:287:ILE:CG2	4:3:203:THR:N	2.55	0.70
1:A:499:GLU:OE2	1:A:766:PHE:HE2	1.74	0.69
1:A:797:PHE:CD1	3:C:146:ILE:CG2	2.74	0.69
2:B:117:LEU:CB	2:B:147:ASN:ND2	2.35	0.69
1:D:630:ALA:O	4:9:25:ASP:HB2	1.92	0.69
1:D:724:TYR:CA	1:D:782:MLY:CD	2.70	0.69
1:G:93:MET:HE3	1:G:764:MLY:HD3	1.71	0.69
1:G:546:THR:HG22	1:G:548:THR:N	2.05	0.69
1:G:721:LYS:HG2	1:G:736:GLN:CD	1.86	0.69
1:G:810:ARG:HG2	1:G:810:ARG:HH11	1.56	0.69
1:P:72:VAL:HG13	1:P:76:GLN:CB	2.19	0.69
1:P:795:ARG:HD3	3:R:43:ASN:CG	2.12	0.69
1:P:819:ASN:CG	2:Q:92:ASP:HB3	2.10	0.69
2:B:117:LEU:CB	2:B:147:ASN:OD1	2.39	0.69
3:F:25:ILE:O	3:F:63:ILE:HB	1.92	0.69
1:P:541:MET:CG	4:0:345:ILE:O	2.40	0.69
4:0:201:VAL:H	4:Y:287:ILE:HG12	0.89	0.69
1:A:577:ALA:O	1:A:578:HIS:CG	2.45	0.69
1:A:782:MLY:C	1:A:783:LEU:HD12	2.22	0.69
1:A:795:ARG:CD	3:C:35:ARG:NH1	2.34	0.69
1:D:831:TRP:NE1	2:E:51:PHE:CZ	2.60	0.69
1:G:795:ARG:N	3:I:118:MET:CE	2.55	0.69
1:J:630:ALA:O	4:W:25:ASP:CB	2.41	0.69
1:J:787:ILE:HG22	1:J:788:THR:N	2.07	0.69
4:7:1:ASP:HA	4:7:4:GLU:HB3	1.74	0.69
1:J:797:PHE:CZ	3:L:126:LEU:HD22	2.27	0.69
1:J:819:ASN:HD21	2:K:92:ASP:HB2	1.54	0.69
1:P:797:PHE:HD1	3:R:146:ILE:HG22	1.54	0.69
1:P:797:PHE:HD1	3:R:146:ILE:HG23	1.05	0.69
2:Q:111:SER:OG	2:Q:148:VAL:HG12	1.92	0.69
1:A:97:LEU:HD22	1:A:712:PRO:HB2	1.75	0.69
1:D:218:LEU:HB2	1:D:221:GLN:CG	2.09	0.69
1:G:72:VAL:HG13	1:G:76:GLN:CB	2.19	0.69
1:G:206:LYS:HD3	1:G:217:THR:HG23	0.70	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:643:GLY:N	4:V:24:ASP:CA	2.47	0.69
1:J:782:MLY:C	1:J:783:LEU:HD12	2.22	0.69
1:P:630:ALA:O	4:0:25:ASP:CB	2.41	0.69
1:P:641:LYS:HD2	4:0:348:SER:HA	1.73	0.69
3:R:48:LYS:HB3	3:R:52:ASN:HD21	1.57	0.69
4:2:324:THR:HG21	4:4:243:PRO:C	2.11	0.69
4:9:1:ASP:HA	4:9:4:GLU:HB3	1.74	0.69
4:V:1:ASP:HA	4:V:4:GLU:HB3	1.74	0.69
4:Y:1:ASP:HA	4:Y:4:GLU:HB3	1.74	0.69
1:A:123:CYS:HB2	1:A:158:ILE:CD1	2.23	0.69
1:A:553:MLY:HG2	4:V:47:MET:N	2.07	0.69
1:A:802:GLU:OE1	1:A:802:GLU:HA	1.92	0.69
1:G:553:MLY:HH12	4:X:45:VAL:CG2	2.21	0.69
1:J:84:MLY:HH22	1:J:719:ASP:O	1.92	0.69
1:J:792:ALA:CA	3:L:42:THR:HA	2.10	0.69
1:P:802:GLU:OE1	1:P:802:GLU:HA	1.92	0.69
4:0:1:ASP:HA	4:0:4:GLU:HB3	1.74	0.69
4:0:243:PRO:CB	4:Y:291:LYS:HE3	2.23	0.69
4:1:1:ASP:HA	4:1:4:GLU:HB3	1.74	0.69
1:A:641:LYS:HD2	4:8:348:SER:HA	1.73	0.69
1:D:553:MLY:HG2	4:W:47:MET:N	2.07	0.69
1:G:577:ALA:O	1:G:578:HIS:CG	2.45	0.69
1:G:762:HIS:CD2	1:G:762:HIS:H	2.07	0.69
3:I:3:SER:O	3:I:4:LYS:CB	2.41	0.69
1:J:218:LEU:HB2	1:J:221:GLN:CG	2.09	0.69
1:J:579:PHE:HD2	1:J:592:ILE:HD11	1.56	0.69
3:L:25:ILE:O	3:L:63:ILE:HB	1.92	0.69
1:P:810:ARG:HH11	1:P:810:ARG:HG2	1.57	0.69
4:W:1:ASP:HA	4:W:4:GLU:HB3	1.74	0.69
4:W:3:ASP:HA	4:W:6:THR:CB	2.18	0.69
1:A:550:PHE:HA	4:V:46:GLY:HA3	1.66	0.69
1:A:630:ALA:O	4:8:25:ASP:HB2	1.92	0.69
1:A:813:ILE:HG22	2:B:127:ARG:HD3	1.72	0.69
1:D:541:MET:CG	4:9:345:ILE:O	2.41	0.69
1:D:782:MLY:C	1:D:783:LEU:HD12	2.22	0.69
1:D:807:VAL:O	1:D:810:ARG:HB2	1.93	0.69
2:E:111:SER:OG	2:E:148:VAL:HG12	1.92	0.69
3:F:3:SER:O	3:F:4:LYS:CB	2.41	0.69
1:G:84:MLY:HH22	1:G:723:ARG:HB2	1.75	0.69
1:G:123:CYS:HB2	1:G:158:ILE:CD1	2.23	0.69
1:G:754:ASP:HB3	1:G:757:GLN:HG2	1.72	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:787:ILE:HG22	1:G:788:THR:N	2.07	0.69
2:H:111:SER:OG	2:H:148:VAL:HG12	1.92	0.69
3:I:48:LYS:HB3	3:I:52:ASN:HD21	1.56	0.69
3:L:48:LYS:C	3:L:52:ASN:HD21	1.96	0.69
1:P:56:GLU:CB	1:P:59:MLY:HB3	2.19	0.69
1:P:123:CYS:HB2	1:P:158:ILE:CD1	2.23	0.69
1:P:815:CYS:O	1:P:819:ASN:HB2	1.93	0.69
1:P:831:TRP:CZ3	2:Q:34:ILE:HG21	2.27	0.69
4:4:1:ASP:HA	4:4:4:GLU:HB3	1.74	0.69
4:8:1:ASP:HA	4:8:4:GLU:HB3	1.74	0.69
1:A:813:ILE:CD1	2:B:128:PHE:HE1	2.06	0.69
1:D:642:LYS:HB3	4:9:21:PHE:O	1.93	0.69
1:D:732:ILE:HG23	1:D:747:LEU:CB	1.84	0.69
3:I:48:LYS:C	3:I:52:ASN:HD21	1.96	0.69
2:K:114:LYS:HA	2:K:146:GLY:C	2.03	0.69
1:P:538:GLU:CD	4:0:355:MET:CE	2.62	0.69
1:P:579:PHE:HD2	1:P:592:ILE:HD11	1.56	0.69
1:P:739:ASP:CB	1:P:742:LYS:HB3	2.12	0.69
1:P:793:ARG:CB	3:R:87:PHE:CZ	2.75	0.69
3:R:25:ILE:O	3:R:63:ILE:HB	1.92	0.69
4:2:1:ASP:HA	4:2:4:GLU:HB3	1.74	0.69
1:A:505:MLY:HH23	1:A:762:HIS:O	1.84	0.69
1:A:642:LYS:HB3	4:8:21:PHE:O	1.93	0.69
1:A:813:ILE:HG12	2:B:128:PHE:CE1	2.27	0.69
1:D:630:ALA:O	4:9:25:ASP:CB	2.41	0.69
1:D:732:ILE:HD13	1:D:782:MLY:HH11	1.74	0.69
2:E:117:LEU:HD12	2:E:147:ASN:CA	2.20	0.69
1:G:815:CYS:O	1:G:819:ASN:HB2	1.93	0.69
1:P:546:THR:HG22	1:P:548:THR:N	2.05	0.69
1:P:795:ARG:CZ	3:R:42:THR:CB	2.68	0.69
4:4:3:ASP:HA	4:4:6:THR:CB	2.18	0.69
1:A:831:TRP:CZ2	2:B:50:THR:HB	2.23	0.68
1:D:727:LEU:CA	1:D:782:MLY:HE2	2.13	0.68
1:G:556:ASP:OD2	4:X:47:MET:CE	2.39	0.68
1:G:733:PRO:C	1:G:737:PHE:CD1	2.62	0.68
1:J:739:ASP:CB	1:J:742:LYS:HB3	2.12	0.68
1:J:829:TRP:CE2	2:K:87:LYS:HE2	2.29	0.68
1:P:62:VAL:HG12	1:P:63:MLY:O	1.94	0.68
1:P:295:MLY:HG3	1:P:332:MET:HE1	1.75	0.68
1:P:642:LYS:HB3	4:0:21:PHE:O	1.92	0.68
4:9:160:THR:HG21	4:9:274:ILE:HD11	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:52:ILE:HD13	1:A:52:ILE:N	2.08	0.68
1:A:754:ASP:OD2	1:A:774:LEU:CD2	2.41	0.68
1:A:818:TYR:HB3	2:B:90:GLY:N	2.07	0.68
1:D:834:LEU:HG	2:E:54:MET:CG	2.14	0.68
1:G:641:LYS:HD2	4:V:348:SER:HA	1.73	0.68
1:G:652:LEU:O	1:G:655:GLU:N	2.27	0.68
1:G:782:MLY:C	1:G:783:LEU:HD12	2.22	0.68
1:G:784:ALA:O	1:G:788:THR:HB	1.94	0.68
2:H:114:LYS:HA	2:H:146:GLY:C	2.02	0.68
1:J:541:MET:CG	4:W:345:ILE:O	2.40	0.68
1:J:546:THR:HG22	1:J:548:THR:N	2.05	0.68
1:J:757:GLN:HA	1:J:776:GLU:CG	2.21	0.68
2:K:117:LEU:CB	2:K:147:ASN:ND2	2.35	0.68
2:K:117:LEU:CB	2:K:147:ASN:OD1	2.39	0.68
1:P:97:LEU:HD21	1:P:712:PRO:CB	2.18	0.68
1:P:782:MLY:C	1:P:783:LEU:HD12	2.22	0.68
4:3:160:THR:HG21	4:3:274:ILE:HD11	1.76	0.68
4:5:1:ASP:HA	4:5:4:GLU:HB3	1.74	0.68
1:A:28:GLN:HE22	1:A:723:ARG:NH2	1.86	0.68
1:A:810:ARG:HG2	1:A:810:ARG:HH11	1.57	0.68
3:C:3:SER:O	3:C:4:LYS:CB	2.41	0.68
1:D:815:CYS:O	1:D:819:ASN:HB2	1.93	0.68
3:F:4:LYS:N	3:F:5:ALA:O	2.16	0.68
1:G:213:LYS:HA	1:G:220:ASP:OD1	1.92	0.68
1:G:802:GLU:OE1	1:G:802:GLU:HA	1.93	0.68
1:G:829:TRP:CZ2	2:H:83:MET:CE	2.76	0.68
1:J:807:VAL:O	1:J:810:ARG:HB2	1.93	0.68
1:J:819:ASN:OD1	2:K:92:ASP:CB	2.41	0.68
1:J:829:TRP:CZ3	2:K:84:PHE:CE1	2.81	0.68
1:P:94:MET:O	1:P:713:SER:CB	2.37	0.68
4:0:160:THR:HG21	4:0:274:ILE:HD11	1.75	0.68
4:1:244:ASP:CB	4:Z:322:PRO:CB	2.65	0.68
4:7:160:THR:HG21	4:7:274:ILE:HD11	1.76	0.68
4:W:160:THR:HG21	4:W:274:ILE:HD11	1.76	0.68
4:Y:160:THR:HG21	4:Y:274:ILE:HD11	1.75	0.68
1:A:213:LYS:HA	1:A:220:ASP:OD1	1.92	0.68
2:B:111:SER:OG	2:B:148:VAL:HG12	1.92	0.68
1:D:62:VAL:HG12	1:D:63:MLY:O	1.93	0.68
1:G:52:ILE:HD13	1:G:52:ILE:N	2.09	0.68
2:H:117:LEU:CB	2:H:147:ASN:ND2	2.35	0.68
1:P:643:GLY:N	4:0:24:ASP:CA	2.46	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Z:1:ASP:HA	4:Z:4:GLU:HB3	1.74	0.68
1:A:815:CYS:O	1:A:819:ASN:HB2	1.93	0.68
1:D:533:PHE:O	1:D:537:GLU:HG2	1.93	0.68
3:F:48:LYS:HB3	3:F:52:ASN:HD21	1.57	0.68
1:G:533:PHE:O	1:G:537:GLU:HG2	1.93	0.68
1:G:642:LYS:HB3	4:V:21:PHE:O	1.92	0.68
1:J:831:TRP:HE1	2:K:67:MET:CB	2.04	0.68
2:K:150:TYR:C	2:K:151:LYS:CG	2.48	0.68
1:P:807:VAL:O	1:P:810:ARG:HB2	1.93	0.68
4:V:325:MET:CE	4:X:244:ASP:CB	2.70	0.68
1:D:556:ASP:HA	4:W:49:GLN:O	1.70	0.68
1:D:724:TYR:HB3	1:D:782:MLY:NZ	2.09	0.68
1:G:292:MET:HE3	1:G:309:PRO:HA	1.75	0.68
2:H:117:LEU:CB	2:H:147:ASN:OD1	2.39	0.68
1:J:538:GLU:CD	4:W:355:MET:CE	2.62	0.68
1:J:769:ALA:CB	1:J:770:GLY:HA3	2.24	0.68
1:J:797:PHE:HE2	3:L:126:LEU:HD22	1.58	0.68
3:L:48:LYS:HB3	3:L:52:ASN:HD21	1.57	0.68
1:A:408:VAL:HG12	4:8:332:PRO:HB3	1.76	0.68
1:A:807:VAL:O	1:A:810:ARG:HB2	1.93	0.68
1:D:802:GLU:OE1	1:D:802:GLU:HA	1.93	0.68
1:D:831:TRP:CZ3	2:E:34:ILE:HG21	2.25	0.68
1:G:408:VAL:HG12	4:V:332:PRO:HB3	1.76	0.68
1:J:533:PHE:O	1:J:537:GLU:HG2	1.93	0.68
1:J:733:PRO:C	1:J:737:PHE:CD1	2.62	0.68
1:J:735:GLY:C	1:J:743:ALA:HB2	1.82	0.68
1:P:84:MLY:CD	1:P:723:ARG:CD	2.72	0.68
1:P:838:ILE:HD11	2:Q:54:MET:SD	2.30	0.68
3:R:48:LYS:C	3:R:52:ASN:HD21	1.97	0.68
1:A:652:LEU:O	1:A:655:GLU:N	2.27	0.68
3:C:25:ILE:O	3:C:63:ILE:HB	1.92	0.68
1:D:123:CYS:HB2	1:D:158:ILE:CD1	2.23	0.68
1:D:215:GLN:HA	1:D:340:ILE:CB	2.23	0.68
1:D:712:PRO:CB	1:D:771:LEU:HD22	2.23	0.68
1:J:62:VAL:HG12	1:J:63:MLY:O	1.93	0.68
1:J:815:CYS:O	1:J:819:ASN:HB2	1.93	0.68
1:J:821:ARG:HH22	2:K:127:ARG:CG	2.00	0.68
1:P:813:ILE:CG2	2:Q:128:PHE:CZ	2.76	0.68
1:P:820:VAL:CG1	2:Q:136:MET:HE1	2.24	0.68
2:Q:114:LYS:HA	2:Q:146:GLY:C	2.03	0.68
4:5:160:THR:HG21	4:5:274:ILE:HD11	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X:286:ASP:OD1	4:Z:202:THR:C	2.31	0.68
1:D:550:PHE:HE2	1:D:592:ILE:HG23	1.59	0.68
1:D:769:ALA:O	1:D:774:LEU:CB	2.42	0.68
1:D:787:ILE:HG22	1:D:788:THR:N	2.07	0.68
1:D:822:SER:OG	2:E:88:LEU:HD22	1.86	0.68
1:G:541:MET:CG	4:V:345:ILE:O	2.41	0.68
1:G:550:PHE:HE2	1:G:592:ILE:HG23	1.59	0.68
1:G:796:GLY:HA2	3:I:35:ARG:NE	2.08	0.68
1:J:84:MLY:HH12	1:J:720:PHE:HD1	1.59	0.68
1:P:292:MET:HE3	1:P:309:PRO:HA	1.74	0.68
1:P:818:TYR:CD1	2:Q:127:ARG:NH1	2.62	0.68
4:2:153:LEU:HD11	4:2:274:ILE:HG13	1.76	0.68
1:A:166:MET:HE3	1:A:254:PHE:CD2	2.29	0.68
1:A:541:MET:CG	4:8:345:ILE:O	2.41	0.68
1:D:52:ILE:HD13	1:D:52:ILE:N	2.09	0.68
1:D:795:ARG:HH21	3:F:116:GLU:HB3	1.59	0.68
2:E:117:LEU:CG	2:E:147:ASN:HB3	2.24	0.68
1:G:166:MET:HE3	1:G:254:PHE:CD2	2.29	0.68
1:G:807:VAL:O	1:G:810:ARG:HB2	1.93	0.68
1:J:530:MET:HE3	4:W:354:GLN:HG2	1.73	0.68
1:P:550:PHE:HE2	1:P:592:ILE:HG23	1.59	0.68
4:4:153:LEU:HD11	4:4:274:ILE:HG13	1.76	0.68
4:X:160:THR:HG21	4:X:274:ILE:HD11	1.75	0.68
1:A:739:ASP:CB	1:A:742:LYS:HB3	2.12	0.67
1:D:652:LEU:O	1:D:655:GLU:N	2.27	0.67
1:G:553:MLY:CD	4:X:45:VAL:HG12	2.23	0.67
1:G:797:PHE:CE2	3:I:126:LEU:CD1	2.77	0.67
1:J:802:GLU:OE1	1:J:802:GLU:HA	1.92	0.67
1:J:817:GLN:OE1	2:K:127:ARG:CD	2.39	0.67
1:P:166:MET:HE3	1:P:254:PHE:CD2	2.29	0.67
2:Q:117:LEU:CG	2:Q:147:ASN:HB3	2.25	0.67
4:0:202:THR:OG1	4:Y:286:ASP:C	2.29	0.67
1:A:58:GLY:HA2	1:A:74:GLU:OE1	1.94	0.67
1:A:630:ALA:O	4:8:25:ASP:CB	2.41	0.67
1:A:831:TRP:HZ3	2:B:50:THR:HG21	0.72	0.67
2:B:141:PRO:O	2:B:145:ALA:CB	2.43	0.67
1:D:538:GLU:CD	4:9:355:MET:CE	2.62	0.67
1:J:546:THR:H	1:J:549:SER:HB3	1.59	0.67
1:J:795:ARG:HG3	3:L:116:GLU:OE2	1.95	0.67
1:P:652:LEU:O	1:P:655:GLU:N	2.26	0.67
1:P:787:ILE:HG22	1:P:788:THR:N	2.07	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:117:LEU:CB	2:Q:147:ASN:OD1	2.39	0.67
4:0:153:LEU:HD11	4:0:274:ILE:HG13	1.76	0.67
4:1:322:PRO:CB	4:3:244:ASP:HB2	2.23	0.67
4:2:160:THR:HG21	4:2:274:ILE:HD11	1.75	0.67
4:Y:153:LEU:HD11	4:Y:274:ILE:HG13	1.76	0.67
1:A:546:THR:H	1:A:549:SER:HB3	1.59	0.67
1:A:836:PHE:CE1	2:B:159:HIS:CA	2.76	0.67
1:D:819:ASN:N	2:E:90:GLY:O	2.26	0.67
1:J:123:CYS:HB2	1:J:158:ILE:CD1	2.23	0.67
1:J:538:GLU:CD	4:W:355:MET:HE1	2.13	0.67
1:J:732:ILE:HG23	1:J:747:LEU:CB	1.84	0.67
1:P:131:TRP:O	1:P:132:LEU:HD12	1.95	0.67
1:P:546:THR:H	1:P:549:SER:HB3	1.59	0.67
4:3:288:ASP:CB	4:5:203:THR:HG21	2.25	0.67
1:D:709:LYS:C	1:D:710:GLY:HA2	2.15	0.67
1:G:58:GLY:HA2	1:G:74:GLU:OE1	1.95	0.67
1:G:818:TYR:CD1	2:H:127:ARG:NH1	2.63	0.67
1:J:149:GLN:HG2	1:J:716:LEU:HD11	1.75	0.67
1:J:612:GLN:NE2	1:J:627:GLY:N	2.43	0.67
4:8:153:LEU:HD11	4:8:274:ILE:HG13	1.76	0.67
1:D:546:THR:H	1:D:549:SER:HB3	1.59	0.67
1:G:538:GLU:CD	4:V:355:MET:CE	2.62	0.67
2:H:117:LEU:CG	2:H:147:ASN:HB3	2.24	0.67
1:J:374:GLN:HG3	1:J:375:ALA:H	1.59	0.67
1:J:642:LYS:HB3	4:W:21:PHE:O	1.92	0.67
1:J:769:ALA:HB3	1:J:770:GLY:CA	2.24	0.67
1:J:817:GLN:CG	2:K:127:ARG:CG	2.72	0.67
2:K:117:LEU:CG	2:K:147:ASN:HB3	2.24	0.67
1:P:374:GLN:HG3	1:P:375:ALA:H	1.59	0.67
1:P:508:ILE:HD11	1:P:759:ALA:HB1	1.67	0.67
2:Q:141:PRO:O	2:Q:145:ALA:CB	2.43	0.67
4:V:153:LEU:HD11	4:V:274:ILE:HG13	1.76	0.67
1:A:217:THR:O	1:A:221:GLN:HG2	1.95	0.67
3:C:102:VAL:HG23	3:C:139:TYR:HD1	1.60	0.67
1:G:217:THR:O	1:G:221:GLN:HG2	1.95	0.67
1:J:58:GLY:HA2	1:J:74:GLU:OE1	1.95	0.67
1:J:480:ILE:HG22	1:J:481:ASN:ND2	2.10	0.67
1:J:652:LEU:O	1:J:655:GLU:N	2.27	0.67
1:J:796:GLY:CA	3:L:35:ARG:HD3	2.25	0.67
1:P:93:MET:HA	1:P:714:ARG:H	1.58	0.67
4:1:160:THR:HG21	4:1:274:ILE:HD11	1.75	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:V:160:THR:HG21	4:V:274:ILE:HD11	1.76	0.67
1:A:502:GLU:CD	1:A:761:GLY:N	2.44	0.67
1:D:612:GLN:NE2	1:D:627:GLY:N	2.43	0.67
1:D:713:SER:HB3	1:D:775:LEU:HD22	1.77	0.67
1:G:202:SER:HA	1:G:207:LYS:HE3	1.72	0.67
1:G:290:GLN:O	1:G:331:LEU:HD12	1.95	0.67
1:G:831:TRP:HZ3	2:H:34:ILE:HG21	1.60	0.67
1:J:290:GLN:O	1:J:331:LEU:HD12	1.95	0.67
3:L:3:SER:O	3:L:4:LYS:CB	2.41	0.67
1:P:84:MLY:HH22	1:P:723:ARG:HB2	1.76	0.67
1:P:635:GLY:O	4:0:341:ILE:HG21	1.95	0.67
3:R:4:LYS:N	3:R:5:ALA:O	2.16	0.67
1:A:61:THR:HG23	1:A:71:THR:OG1	1.94	0.67
1:A:839:MLY:CH1	2:B:159:HIS:CD2	2.77	0.67
1:D:58:GLY:HA2	1:D:74:GLU:OE1	1.95	0.67
1:D:480:ILE:HG22	1:D:481:ASN:ND2	2.09	0.67
1:D:642:LYS:CD	4:9:24:ASP:O	2.42	0.67
1:G:62:VAL:HG12	1:G:63:MLY:O	1.94	0.67
1:G:813:ILE:CG2	2:H:128:PHE:HE1	2.07	0.67
2:H:141:PRO:O	2:H:145:ALA:CB	2.43	0.67
1:J:795:ARG:HG2	3:L:118:MET:HE1	1.76	0.67
2:K:117:LEU:HD11	2:K:147:ASN:HB3	1.76	0.67
1:P:533:PHE:O	1:P:537:GLU:HG2	1.93	0.67
1:P:734:GLU:OE2	3:R:92:ARG:HB3	1.94	0.67
1:P:767:PHE:CD1	1:P:772:LEU:HD13	2.29	0.67
1:P:786:ILE:CA	1:P:788:THR:H	2.07	0.67
1:P:831:TRP:HZ3	2:Q:34:ILE:HG21	1.60	0.67
4:W:153:LEU:HD11	4:W:274:ILE:HG13	1.76	0.67
1:A:62:VAL:HG12	1:A:63:MLY:O	1.93	0.67
1:A:533:PHE:O	1:A:537:GLU:HG2	1.93	0.67
1:A:732:ILE:HG23	1:A:747:LEU:CB	1.85	0.67
1:A:823:PHE:CD1	2:B:160:GLY:HA2	2.30	0.67
3:F:102:VAL:HG23	3:F:139:TYR:HD1	1.59	0.67
1:G:537:GLU:C	4:V:351:THR:H	1.99	0.67
1:G:817:GLN:HG3	2:H:128:PHE:CZ	2.30	0.67
3:I:24:LYS:HA	3:I:63:ILE:O	1.95	0.67
1:J:52:ILE:HD13	1:J:52:ILE:N	2.09	0.67
1:P:648:THR:CB	4:0:350:SER:OG	2.43	0.67
4:8:160:THR:HG21	4:8:274:ILE:HD11	1.76	0.67
1:A:795:ARG:NH2	3:C:116:GLU:OE1	2.25	0.67
1:A:837:MLY:CH2	2:H:20:ASP:HB2	2.24	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:117:LEU:CG	2:B:147:ASN:HB3	2.24	0.67
1:D:131:TRP:O	1:D:132:LEU:HD12	1.95	0.67
1:D:374:GLN:HG3	1:D:375:ALA:H	1.60	0.67
2:E:141:PRO:O	2:E:145:ALA:CB	2.43	0.67
1:G:78:PHE:HB3	1:G:98:HIS:CD2	2.30	0.67
1:J:635:GLY:O	4:W:341:ILE:HG21	1.95	0.67
2:K:141:PRO:O	2:K:145:ALA:CB	2.43	0.67
1:P:290:GLN:O	1:P:331:LEU:HD12	1.95	0.67
4:V:325:MET:HE2	4:X:244:ASP:CG	2.09	0.67
4:X:153:LEU:HD11	4:X:274:ILE:HG13	1.76	0.67
1:A:550:PHE:HE2	1:A:592:ILE:HG23	1.59	0.66
1:A:795:ARG:CB	3:C:35:ARG:NH2	2.52	0.66
1:A:817:GLN:HG3	2:B:127:ARG:HB3	1.77	0.66
1:D:530:MET:HE3	4:9:354:GLN:HG2	1.74	0.66
1:D:546:THR:HG22	1:D:548:THR:N	2.05	0.66
1:D:713:SER:CB	1:D:775:LEU:CD2	2.73	0.66
1:G:131:TRP:O	1:G:132:LEU:HD12	1.95	0.66
1:J:643:GLY:N	4:W:24:ASP:CA	2.46	0.66
1:P:58:GLY:HA2	1:P:74:GLU:OE1	1.95	0.66
1:P:418:THR:HG22	1:P:419:VAL:N	2.11	0.66
3:R:3:SER:O	3:R:4:LYS:CB	2.41	0.66
3:R:24:LYS:HA	3:R:63:ILE:O	1.95	0.66
4:9:153:LEU:HD11	4:9:274:ILE:HG13	1.76	0.66
4:W:324:THR:HG22	4:Y:247:VAL:HG13	1.77	0.66
4:Z:153:LEU:HD11	4:Z:274:ILE:HG13	1.76	0.66
1:A:78:PHE:HB3	1:A:98:HIS:CD2	2.30	0.66
1:A:648:THR:CB	4:8:350:SER:OG	2.43	0.66
1:G:61:THR:HG23	1:G:71:THR:OG1	1.94	0.66
1:G:84:MLY:CH1	1:G:724:TYR:CD2	2.71	0.66
1:G:546:THR:H	1:G:549:SER:HB3	1.59	0.66
1:G:557:GLU:HB2	4:X:47:MET:C	2.16	0.66
1:G:599:ASN:OD1	1:G:649:VAL:N	2.29	0.66
1:J:408:VAL:HG12	4:W:332:PRO:HB3	1.76	0.66
1:J:541:MET:O	4:W:143:TYR:OH	2.14	0.66
1:P:174:SER:O	1:P:670:HIS:HB2	1.95	0.66
1:P:339:ASP:OD1	1:P:348:MLY:HH13	1.95	0.66
1:A:290:GLN:O	1:A:331:LEU:HD12	1.95	0.66
1:A:538:GLU:CD	4:8:355:MET:CE	2.62	0.66
1:D:339:ASP:OD1	1:D:348:MLY:HH13	1.95	0.66
1:D:418:THR:HG22	1:D:419:VAL:N	2.11	0.66
1:D:648:THR:CB	4:9:350:SER:OG	2.43	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:174:SER:O	1:G:670:HIS:HB2	1.96	0.66
1:G:505:MLY:CE	1:G:762:HIS:CE1	2.79	0.66
1:G:797:PHE:HE2	3:I:126:LEU:CD1	2.08	0.66
1:G:829:TRP:HZ2	2:H:83:MET:HE1	1.60	0.66
1:G:831:TRP:HE1	2:H:67:MET:CB	1.96	0.66
1:J:131:TRP:O	1:J:132:LEU:HD12	1.95	0.66
1:J:755:HIS:N	1:J:780:ASP:OD2	2.28	0.66
1:P:84:MLY:HA	1:P:723:ARG:NH2	2.11	0.66
1:P:84:MLY:CB	1:P:723:ARG:NE	2.58	0.66
1:P:599:ASN:OD1	1:P:649:VAL:N	2.29	0.66
1:P:612:GLN:NE2	1:P:627:GLY:N	2.43	0.66
2:Q:146:GLY:O	2:Q:147:ASN:HB2	1.96	0.66
4:1:203:THR:N	4:Z:287:ILE:HB	2.04	0.66
1:A:418:THR:HG22	1:A:419:VAL:N	2.11	0.66
1:A:642:LYS:CD	4:8:24:ASP:O	2.42	0.66
1:D:537:GLU:C	4:9:351:THR:H	1.98	0.66
1:D:795:ARG:HE	3:F:116:GLU:HB3	1.61	0.66
2:E:141:PRO:O	2:E:145:ALA:HB2	1.96	0.66
1:G:374:GLN:HG3	1:G:375:ALA:H	1.60	0.66
2:H:146:GLY:O	2:H:147:ASN:HB2	1.96	0.66
1:J:174:SER:O	1:J:670:HIS:HB2	1.95	0.66
1:J:339:ASP:OD1	1:J:348:MLY:HH13	1.95	0.66
1:J:648:THR:CB	4:W:350:SER:OG	2.43	0.66
2:K:146:GLY:O	2:K:147:ASN:HB2	1.96	0.66
1:P:52:ILE:HD13	1:P:52:ILE:N	2.09	0.66
1:P:217:THR:O	1:P:221:GLN:HG2	1.95	0.66
1:P:322:VAL:HB	1:P:325:ILE:CD1	2.26	0.66
1:P:544:LYS:NZ	4:2:45:VAL:CG2	2.59	0.66
1:A:174:SER:O	1:A:670:HIS:HB2	1.96	0.66
1:A:501:GLU:O	1:A:762:HIS:CD2	2.48	0.66
1:A:815:CYS:O	2:B:90:GLY:O	2.13	0.66
1:D:290:GLN:O	1:D:331:LEU:HD12	1.95	0.66
1:D:599:ASN:OD1	1:D:649:VAL:N	2.29	0.66
1:G:84:MLY:CA	1:G:723:ARG:CZ	2.72	0.66
1:G:148:ARG:NH2	1:G:764:MLY:CH2	2.55	0.66
1:G:648:THR:CB	4:V:350:SER:OG	2.44	0.66
1:G:732:ILE:HG21	1:G:747:LEU:HD11	0.72	0.66
1:G:819:ASN:CG	2:H:90:GLY:O	2.33	0.66
1:J:322:VAL:HB	1:J:325:ILE:CD1	2.26	0.66
1:J:710:GLY:C	1:J:772:LEU:CD2	2.63	0.66
1:J:796:GLY:HA2	3:L:35:ARG:CG	2.25	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:408:VAL:HG12	4:0:332:PRO:HB3	1.76	0.66
1:P:534:SER:C	4:0:351:THR:CA	2.47	0.66
1:A:131:TRP:O	1:A:132:LEU:HD12	1.95	0.66
1:A:480:ILE:HG22	1:A:481:ASN:ND2	2.09	0.66
1:A:537:GLU:C	4:8:351:THR:H	1.99	0.66
1:D:174:SER:O	1:D:670:HIS:HB2	1.96	0.66
1:D:541:MET:O	4:9:143:TYR:OH	2.14	0.66
3:F:24:LYS:HA	3:F:63:ILE:O	1.95	0.66
1:G:557:GLU:HB2	4:X:47:MET:N	2.11	0.66
1:G:755:HIS:H	1:G:779:ARG:NH2	1.91	0.66
3:I:102:VAL:HG23	3:I:139:TYR:HD1	1.59	0.66
1:J:84:MLY:CH2	1:J:719:ASP:O	2.44	0.66
1:J:541:MET:HG2	4:W:345:ILE:C	2.16	0.66
1:J:550:PHE:HE2	1:J:592:ILE:HG23	1.59	0.66
2:K:141:PRO:O	2:K:145:ALA:HB2	1.96	0.66
1:P:541:MET:O	4:0:143:TYR:OH	2.14	0.66
1:P:786:ILE:O	1:P:787:ILE:C	2.33	0.66
1:P:795:ARG:NE	3:R:116:GLU:CD	2.38	0.66
4:4:160:THR:HG21	4:4:274:ILE:HD11	1.76	0.66
4:Z:160:THR:HG21	4:Z:274:ILE:HD11	1.76	0.66
1:A:292:MET:HE3	1:A:309:PRO:HA	1.77	0.66
1:A:541:MET:HG2	4:8:345:ILE:C	2.16	0.66
1:A:612:GLN:NE2	1:A:627:GLY:N	2.43	0.66
1:A:732:ILE:HG22	1:A:747:LEU:CD1	1.55	0.66
1:A:732:ILE:HG21	1:A:747:LEU:HD11	0.73	0.66
2:B:150:TYR:C	2:B:151:LYS:CG	2.48	0.66
1:D:226:ASN:HB2	1:D:227:PRO:HD3	1.78	0.66
1:D:408:VAL:HG12	4:9:332:PRO:HB3	1.76	0.66
1:D:507:GLY:HA2	1:D:762:HIS:ND1	2.11	0.66
1:D:538:GLU:CD	4:9:355:MET:HE1	2.14	0.66
1:G:226:ASN:HB2	1:G:227:PRO:HD3	1.78	0.66
1:G:505:MLY:CD	1:G:762:HIS:NE2	2.59	0.66
1:G:612:GLN:NE2	1:G:627:GLY:N	2.43	0.66
1:G:823:PHE:CE1	2:H:156:VAL:O	2.49	0.66
1:J:78:PHE:HB3	1:J:98:HIS:CD2	2.30	0.66
3:L:102:VAL:HG23	3:L:139:TYR:HD1	1.59	0.66
1:P:541:MET:HG2	4:0:345:ILE:C	2.16	0.66
1:P:734:GLU:HG2	3:R:93:VAL:HG22	1.77	0.66
1:P:838:ILE:HD11	2:Q:54:MET:HE1	0.66	0.66
4:0:244:ASP:HB2	4:Y:291:LYS:C	2.13	0.66
4:1:288:ASP:H	4:3:203:THR:CG2	2.08	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:91:MET:HE3	1:A:119:SER:HB2	1.78	0.66
1:A:161:ASN:O	1:A:165:PHE:HB2	1.96	0.66
1:A:498:LEU:HD21	1:A:764:MLY:CH2	2.23	0.66
1:A:538:GLU:HA	4:8:349:LEU:HB3	1.78	0.66
1:A:768:MLY:CG	1:A:771:LEU:HD13	2.23	0.66
1:D:322:VAL:HB	1:D:325:ILE:CD1	2.26	0.66
2:E:114:LYS:HA	2:E:146:GLY:C	2.03	0.66
2:E:146:GLY:O	2:E:147:ASN:HB2	1.96	0.66
1:G:830:PRO:CG	2:H:67:MET:HE2	2.25	0.66
1:J:97:LEU:HD22	1:J:712:PRO:CB	2.24	0.66
1:J:226:ASN:HB2	1:J:227:PRO:HD3	1.78	0.66
1:P:537:GLU:C	4:0:351:THR:H	1.98	0.66
1:P:642:LYS:HA	4:0:21:PHE:O	1.96	0.66
2:Q:141:PRO:O	2:Q:145:ALA:HB2	1.96	0.66
4:7:153:LEU:HD11	4:7:274:ILE:HG13	1.76	0.66
4:V:288:ASP:H	4:X:204:ALA:H	1.43	0.66
1:A:339:ASP:OD1	1:A:348:MLY:HH13	1.95	0.66
1:A:530:MET:CG	4:8:354:GLN:CG	2.71	0.66
1:D:793:ARG:HH21	3:F:147:MET:HE1	1.61	0.66
1:G:635:GLY:O	4:V:341:ILE:HG21	1.95	0.66
1:G:795:ARG:CZ	3:I:116:GLU:OE2	2.44	0.66
1:J:84:MLY:O	1:J:723:ARG:HD2	1.91	0.66
1:J:217:THR:O	1:J:221:GLN:HG2	1.95	0.66
1:P:480:ILE:HG22	1:P:481:ASN:ND2	2.10	0.66
4:1:153:LEU:HD11	4:1:274:ILE:HG13	1.76	0.66
1:A:144:ARG:NH1	1:A:160:ASP:OD1	2.29	0.66
1:A:530:MET:CA	4:8:354:GLN:CB	2.74	0.66
1:D:708:ARG:CA	1:D:710:GLY:N	2.59	0.66
1:G:510:TRP:CZ2	1:G:768:MLY:HH11	2.30	0.66
1:G:757:GLN:OE1	1:G:772:LEU:HA	1.96	0.66
1:G:783:LEU:O	1:G:787:ILE:CA	2.43	0.66
1:G:795:ARG:CB	3:I:35:ARG:NH1	2.53	0.66
1:G:829:TRP:CH2	2:H:84:PHE:CE1	2.84	0.66
1:J:61:THR:HG23	1:J:71:THR:OG1	1.95	0.66
1:J:418:THR:HG22	1:J:419:VAL:N	2.11	0.66
1:J:567:LYS:HZ3	4:Y:92:ASN:ND2	1.94	0.66
1:J:691:VAL:O	1:J:695:LEU:HD13	1.96	0.66
1:P:78:PHE:HB3	1:P:98:HIS:CD2	2.30	0.66
1:P:161:ASN:O	1:P:165:PHE:HB2	1.96	0.66
1:P:691:VAL:O	1:P:695:LEU:HD13	1.96	0.66
1:P:800:ARG:HB3	3:R:149:VAL:HG13	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:2:287:ILE:HG22	4:4:204:ALA:HB3	1.76	0.66
4:5:153:LEU:HD11	4:5:274:ILE:HG13	1.76	0.66
1:A:166:MET:HE3	1:A:254:PHE:HD2	1.62	0.65
1:A:296:MLY:HH11	1:A:348:MLY:HH21	1.78	0.65
3:C:24:LYS:HA	3:C:63:ILE:O	1.95	0.65
1:G:144:ARG:NH1	1:G:160:ASP:OD1	2.29	0.65
1:G:754:ASP:OD2	1:G:776:GLU:HA	1.97	0.65
1:J:144:ARG:NH1	1:J:160:ASP:OD1	2.29	0.65
1:J:599:ASN:OD1	1:J:649:VAL:N	2.29	0.65
1:P:61:THR:HG23	1:P:71:THR:OG1	1.95	0.65
1:P:506:GLU:OE2	1:P:760:PHE:CB	2.14	0.65
1:A:149:GLN:HG2	1:A:719:ASP:CG	2.14	0.65
1:A:795:ARG:HH22	3:C:116:GLU:CD	1.87	0.65
1:D:466:GLY:HA2	1:D:484:ASN:HD21	1.61	0.65
1:D:530:MET:CG	4:9:354:GLN:CG	2.71	0.65
1:D:800:ARG:C	3:F:149:VAL:HG21	2.15	0.65
1:D:819:ASN:CA	2:E:90:GLY:O	2.43	0.65
1:G:161:ASN:O	1:G:165:PHE:HB2	1.96	0.65
1:G:480:ILE:HG22	1:G:481:ASN:ND2	2.10	0.65
1:G:541:MET:O	4:V:143:TYR:OH	2.13	0.65
1:J:161:ASN:O	1:J:165:PHE:HB2	1.96	0.65
1:P:793:ARG:HH21	3:R:147:MET:HE1	1.51	0.65
1:A:753:VAL:HG11	1:A:775:LEU:CD2	2.25	0.65
2:B:117:LEU:HD11	2:B:147:ASN:HB3	1.75	0.65
3:C:45:GLU:O	3:C:49:ILE:HG13	1.96	0.65
3:C:49:ILE:HA	3:C:52:ASN:ND2	2.05	0.65
1:D:635:GLY:O	4:9:341:ILE:HG21	1.95	0.65
1:G:541:MET:HG2	4:V:345:ILE:C	2.17	0.65
1:G:818:TYR:HB3	2:H:90:GLY:CA	2.26	0.65
1:J:642:LYS:HA	4:W:21:PHE:O	1.96	0.65
1:P:226:ASN:HB2	1:P:227:PRO:HD3	1.78	0.65
1:P:817:GLN:HG2	2:Q:127:ARG:HB3	1.78	0.65
3:R:102:VAL:HG23	3:R:139:TYR:HD1	1.59	0.65
4:X:286:ASP:OD1	4:Z:202:THR:CA	2.44	0.65
1:A:226:ASN:HB2	1:A:227:PRO:HD3	1.77	0.65
1:A:691:VAL:O	1:A:695:LEU:HD13	1.97	0.65
2:B:144:VAL:CG1	2:B:153:ILE:HD13	2.19	0.65
3:C:48:LYS:C	3:C:52:ASN:HD21	1.97	0.65
1:D:217:THR:O	1:D:221:GLN:HG2	1.94	0.65
1:D:612:GLN:HE22	1:D:627:GLY:N	1.94	0.65
1:D:691:VAL:O	1:D:695:LEU:HD13	1.97	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:117:LEU:CB	2:E:147:ASN:OD1	2.39	0.65
1:G:480:ILE:HG22	1:G:481:ASN:N	2.11	0.65
1:G:830:PRO:HB3	2:H:67:MET:CE	2.16	0.65
1:G:831:TRP:CZ3	2:H:34:ILE:HG21	2.31	0.65
1:G:834:LEU:HD22	2:H:34:ILE:CD1	2.26	0.65
2:H:141:PRO:O	2:H:145:ALA:HB2	1.96	0.65
3:I:48:LYS:O	3:I:52:ASN:CG	2.34	0.65
1:J:537:GLU:C	4:W:351:THR:H	1.98	0.65
3:L:24:LYS:HA	3:L:63:ILE:O	1.95	0.65
1:P:503:TYR:OH	1:P:711:PHE:CD2	2.12	0.65
1:P:830:PRO:HB3	2:Q:67:MET:HE1	1.78	0.65
1:A:374:GLN:HG3	1:A:375:ALA:H	1.59	0.65
1:A:480:ILE:HG22	1:A:481:ASN:N	2.11	0.65
1:A:557:GLU:N	4:V:48:GLY:HA3	1.90	0.65
1:A:635:GLY:O	4:8:341:ILE:HG21	1.95	0.65
1:A:643:GLY:N	4:8:24:ASP:CA	2.46	0.65
3:C:48:LYS:O	3:C:52:ASN:CG	2.34	0.65
1:D:61:THR:HG23	1:D:71:THR:OG1	1.95	0.65
1:D:78:PHE:HB3	1:D:98:HIS:CD2	2.30	0.65
1:D:507:GLY:O	1:D:761:GLY:HA2	1.96	0.65
1:D:530:MET:CA	4:9:354:GLN:CB	2.74	0.65
1:D:798:LEU:HD21	3:F:122:GLU:HB3	1.77	0.65
1:D:822:SER:O	1:D:825:ASN:HB2	1.97	0.65
1:G:296:MLY:HH11	1:G:348:MLY:HH21	1.78	0.65
1:G:466:GLY:HA2	1:G:484:ASN:HD21	1.61	0.65
1:G:691:VAL:O	1:G:695:LEU:HD13	1.97	0.65
1:G:831:TRP:HH2	2:H:47:LEU:CD2	1.67	0.65
1:J:84:MLY:HH21	1:J:720:PHE:C	2.17	0.65
1:J:832:MET:SD	2:K:84:PHE:HE2	2.19	0.65
3:L:45:GLU:O	3:L:49:ILE:HG13	1.96	0.65
4:1:202:THR:HB	4:Z:287:ILE:CG1	2.26	0.65
4:3:288:ASP:OD2	4:5:203:THR:CB	2.42	0.65
1:A:107:MLY:HB3	1:A:686:MET:CE	2.27	0.65
1:A:322:VAL:HB	1:A:325:ILE:CD1	2.26	0.65
1:A:599:ASN:OD1	1:A:649:VAL:N	2.29	0.65
2:B:146:GLY:O	2:B:147:ASN:HB2	1.96	0.65
1:D:541:MET:HG2	4:9:345:ILE:C	2.16	0.65
1:D:725:ARG:NE	1:D:737:PHE:HE1	1.95	0.65
1:G:339:ASP:OD1	1:G:348:MLY:HH13	1.95	0.65
1:G:418:THR:HG22	1:G:419:VAL:N	2.11	0.65
1:G:823:PHE:HE1	2:H:160:GLY:HA2	1.61	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:838:ILE:CD1	2:H:54:MET:HE1	2.16	0.65
1:J:292:MET:HE3	1:J:309:PRO:HA	1.77	0.65
1:J:530:MET:CA	4:W:354:GLN:CB	2.74	0.65
1:J:710:GLY:O	1:J:772:LEU:CB	2.44	0.65
1:P:799:MET:SD	3:R:35:ARG:HB2	2.36	0.65
4:0:205:GLU:CG	4:Y:287:ILE:HD13	2.26	0.65
4:3:153:LEU:HD11	4:3:274:ILE:HG13	1.76	0.65
4:W:325:MET:SD	4:Y:244:ASP:CG	2.75	0.65
1:A:822:SER:O	1:A:825:ASN:HB2	1.97	0.65
1:D:94:MET:HE1	1:D:101:ALA:HB1	1.79	0.65
1:D:161:ASN:O	1:D:165:PHE:HB2	1.96	0.65
1:D:479:CYS:HB3	1:D:653:PHE:CE2	2.32	0.65
1:G:466:GLY:HA2	1:G:484:ASN:ND2	2.12	0.65
1:G:530:MET:CG	4:V:354:GLN:CG	2.71	0.65
1:J:567:LYS:NZ	4:Y:92:ASN:HA	2.11	0.65
1:J:822:SER:O	1:J:825:ASN:HB2	1.97	0.65
3:L:48:LYS:O	3:L:52:ASN:CG	2.34	0.65
1:P:144:ARG:NH1	1:P:160:ASP:OD1	2.29	0.65
1:P:530:MET:CA	4:0:354:GLN:CB	2.74	0.65
1:P:724:TYR:CE1	1:P:776:GLU:OE2	2.49	0.65
4:0:112:PRO:HG3	4:1:195:GLU:CA	2.23	0.65
1:A:818:TYR:HB2	2:B:90:GLY:N	2.10	0.65
1:D:642:LYS:HA	4:9:21:PHE:O	1.96	0.65
1:D:725:ARG:CA	1:D:782:MLY:CH2	2.74	0.65
3:F:45:GLU:O	3:F:49:ILE:HG13	1.97	0.65
1:J:636:LYS:HG3	4:W:334:GLU:CD	2.17	0.65
1:J:791:GLN:NE2	3:L:115:GLY:CA	2.59	0.65
1:P:817:GLN:CB	2:Q:127:ARG:CD	2.75	0.65
1:A:217:THR:HB	1:A:220:ASP:OD2	1.97	0.65
1:A:466:GLY:HA2	1:A:484:ASN:HD21	1.61	0.65
1:A:642:LYS:HA	4:8:21:PHE:O	1.96	0.65
1:A:725:ARG:NE	1:A:737:PHE:HE1	1.95	0.65
1:D:642:LYS:CD	4:9:340:TRP:CZ3	2.79	0.65
1:G:642:LYS:CD	4:V:24:ASP:O	2.43	0.65
1:P:530:MET:CG	4:0:354:GLN:CG	2.72	0.65
1:A:94:MET:HE1	1:A:101:ALA:HB1	1.79	0.65
1:A:530:MET:HE3	4:8:354:GLN:HG2	1.78	0.65
1:D:202:SER:CA	1:D:207:LYS:HE3	2.27	0.65
1:D:834:LEU:HD12	2:E:54:MET:HB2	1.77	0.65
3:F:48:LYS:C	3:F:52:ASN:HD21	1.97	0.65
1:G:107:MLY:HB3	1:G:686:MET:CE	2.27	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:322:VAL:HB	1:G:325:ILE:CD1	2.26	0.65
1:G:725:ARG:NE	1:G:737:PHE:HE1	1.95	0.65
1:G:732:ILE:HG22	1:G:747:LEU:CD1	1.55	0.65
1:P:466:GLY:HA2	1:P:484:ASN:HD21	1.61	0.65
1:P:538:GLU:HA	4:0:349:LEU:HB3	1.78	0.65
1:P:636:LYS:O	1:P:637:LYS:CB	2.45	0.65
1:P:800:ARG:HG2	3:R:149:VAL:HG22	1.78	0.65
3:R:3:SER:HG	3:R:5:ALA:N	1.95	0.65
1:A:642:LYS:CD	4:8:340:TRP:CZ3	2.79	0.64
2:B:141:PRO:O	2:B:145:ALA:HB2	1.96	0.64
1:D:144:ARG:NH1	1:D:160:ASP:OD1	2.30	0.64
1:D:636:LYS:HG3	4:9:334:GLU:CD	2.17	0.64
1:D:636:LYS:O	1:D:637:LYS:CB	2.45	0.64
1:G:92:ALA:O	1:G:714:ARG:CG	2.45	0.64
1:G:553:MLY:O	4:X:46:GLY:CA	2.45	0.64
1:J:210:GLN:O	1:J:211:SER:OG	2.15	0.64
1:J:725:ARG:NE	1:J:737:PHE:HE1	1.95	0.64
1:P:548:THR:HG22	4:2:49:GLN:CG	2.27	0.64
1:P:767:PHE:CD1	1:P:772:LEU:HD11	2.32	0.64
1:P:799:MET:CB	3:R:35:ARG:HD3	2.12	0.64
4:0:205:GLU:HG3	4:Y:287:ILE:HB	0.70	0.64
4:0:245:GLY:N	4:Y:291:LYS:CB	2.60	0.64
4:1:287:ILE:HG21	4:3:204:ALA:N	2.11	0.64
4:V:324:THR:HG23	4:X:247:VAL:H	1.61	0.64
1:A:466:GLY:HA2	1:A:484:ASN:ND2	2.12	0.64
1:A:636:LYS:HG3	4:8:334:GLU:CD	2.17	0.64
1:G:210:GLN:O	1:G:211:SER:OG	2.15	0.64
1:G:217:THR:HB	1:G:220:ASP:OD2	1.97	0.64
3:R:45:GLU:O	3:R:49:ILE:HG13	1.97	0.64
1:A:218:LEU:CD2	1:A:222:ILE:HG12	2.28	0.64
1:A:534:SER:C	4:8:351:THR:CA	2.47	0.64
1:D:217:THR:HB	1:D:220:ASP:OD2	1.97	0.64
1:D:480:ILE:HG22	1:D:481:ASN:N	2.11	0.64
1:G:530:MET:HE2	4:V:354:GLN:HG3	1.78	0.64
1:G:642:LYS:HA	4:V:21:PHE:O	1.97	0.64
1:G:819:ASN:CB	2:H:92:ASP:HB2	2.26	0.64
1:J:107:MLY:HB3	1:J:686:MET:CE	2.27	0.64
1:J:556:ASP:O	4:Y:48:GLY:N	2.29	0.64
1:J:732:ILE:HG21	1:J:747:LEU:HD11	0.73	0.64
1:J:757:GLN:CA	1:J:776:GLU:HG3	2.26	0.64
1:P:466:GLY:HA2	1:P:484:ASN:ND2	2.11	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:612:GLN:HE22	1:P:627:GLY:N	1.95	0.64
1:P:838:ILE:CG1	2:Q:54:MET:HE1	2.27	0.64
4:2:148:THR:HG21	4:4:45:VAL:CG2	2.26	0.64
1:D:107:MLY:HB3	1:D:686:MET:CE	2.26	0.64
1:D:800:ARG:HB3	3:F:149:VAL:HG22	1.79	0.64
1:G:538:GLU:HA	4:V:349:LEU:HB3	1.79	0.64
1:G:538:GLU:CD	4:V:355:MET:HE3	2.18	0.64
1:J:133:PRO:O	1:J:136:ASN:HB2	1.98	0.64
1:J:466:GLY:HA2	1:J:484:ASN:HD21	1.61	0.64
1:J:817:GLN:CD	2:K:127:ARG:CG	2.65	0.64
1:J:818:TYR:CZ	2:K:127:ARG:CZ	2.65	0.64
1:P:84:MLY:CD	1:P:776:GLU:OE2	2.44	0.64
1:P:210:GLN:O	1:P:211:SER:OG	2.15	0.64
1:P:734:GLU:HG3	3:R:93:VAL:HG23	1.79	0.64
1:P:819:ASN:ND2	2:Q:92:ASP:CA	2.61	0.64
3:R:48:LYS:O	3:R:52:ASN:CG	2.34	0.64
1:A:133:PRO:O	1:A:136:ASN:HB2	1.98	0.64
1:A:149:GLN:HG2	1:A:719:ASP:N	2.07	0.64
1:A:612:GLN:HE22	1:A:627:GLY:N	1.94	0.64
1:D:466:GLY:HA2	1:D:484:ASN:ND2	2.12	0.64
1:G:133:PRO:O	1:G:136:ASN:HB2	1.98	0.64
1:G:612:GLN:HE22	1:G:627:GLY:N	1.94	0.64
1:G:636:LYS:HG3	4:V:334:GLU:CD	2.18	0.64
1:G:783:LEU:HD12	1:G:783:LEU:N	2.13	0.64
1:G:822:SER:O	1:G:825:ASN:HB2	1.97	0.64
1:J:466:GLY:HA2	1:J:484:ASN:ND2	2.12	0.64
2:K:144:VAL:HA	2:K:153:ILE:HD11	1.80	0.64
1:P:642:LYS:CD	4:0:24:ASP:O	2.43	0.64
1:P:725:ARG:NE	1:P:737:PHE:HE1	1.95	0.64
1:P:822:SER:O	1:P:825:ASN:HB2	1.97	0.64
2:Q:140:PHE:HB3	2:Q:144:VAL:CG1	2.28	0.64
4:2:288:ASP:N	4:4:203:THR:CG2	2.56	0.64
4:X:287:ILE:CB	4:Z:201:VAL:HG23	2.27	0.64
1:A:202:SER:CA	1:A:207:LYS:HE3	2.27	0.64
1:A:479:CYS:HB3	1:A:653:PHE:CE2	2.32	0.64
1:A:642:LYS:CA	4:8:21:PHE:O	2.45	0.64
1:D:166:MET:HE3	1:D:254:PHE:CD2	2.33	0.64
1:G:166:MET:HE3	1:G:254:PHE:HD2	1.61	0.64
1:G:530:MET:CA	4:V:354:GLN:CB	2.75	0.64
1:J:479:CYS:HB3	1:J:653:PHE:CE2	2.33	0.64
1:J:538:GLU:HA	4:W:349:LEU:HB3	1.78	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:642:LYS:CD	4:W:340:TRP:CZ3	2.79	0.64
1:J:806:MET:O	1:J:809:ARG:HB2	1.98	0.64
1:J:813:ILE:HG22	2:K:128:PHE:HE1	1.62	0.64
1:P:218:LEU:CD2	1:P:222:ILE:HG12	2.28	0.64
1:P:538:GLU:CD	4:0:355:MET:HE1	2.16	0.64
1:P:732:ILE:CG2	1:P:747:LEU:HD11	1.26	0.64
1:P:793:ARG:HG2	3:R:87:PHE:CZ	2.33	0.64
4:1:167:GLU:OE1	4:3:44:MET:HA	1.98	0.64
4:8:190:MET:SD	4:8:209:VAL:HG11	2.38	0.64
1:A:538:GLU:HA	4:8:349:LEU:CG	2.27	0.64
1:A:795:ARG:HG2	3:C:118:MET:HE1	1.79	0.64
1:A:806:MET:O	1:A:809:ARG:HB2	1.97	0.64
2:B:117:LEU:CG	2:B:147:ASN:CB	2.76	0.64
2:B:140:PHE:HB3	2:B:144:VAL:CG1	2.28	0.64
2:B:144:VAL:HA	2:B:153:ILE:HD11	1.80	0.64
1:D:296:MLY:HH11	1:D:348:MLY:HH21	1.78	0.64
1:D:831:TRP:CE2	2:E:47:LEU:CD2	2.61	0.64
1:D:836:PHE:CZ	2:E:160:GLY:N	2.65	0.64
1:G:406:VAL:HG12	1:G:407:GLY:N	2.13	0.64
3:I:45:GLU:O	3:I:49:ILE:HG13	1.97	0.64
1:J:217:THR:HB	1:J:220:ASP:OD2	1.97	0.64
1:J:642:LYS:CA	4:W:21:PHE:O	2.45	0.64
1:P:107:MLY:HB3	1:P:686:MET:CE	2.27	0.64
1:P:217:THR:HB	1:P:220:ASP:OD2	1.97	0.64
1:P:278:GLN:CG	1:P:317:GLU:HB2	2.27	0.64
1:P:636:LYS:HG3	4:0:334:GLU:CD	2.17	0.64
1:P:792:ALA:HB2	3:R:42:THR:CG2	2.27	0.64
4:1:203:THR:H	4:Z:287:ILE:CD1	2.05	0.64
2:E:149:ASP:OD2	2:E:150:TYR:C	2.36	0.64
3:F:48:LYS:O	3:F:52:ASN:CG	2.34	0.64
1:G:218:LEU:CD2	1:G:222:ILE:HG12	2.28	0.64
1:G:642:LYS:CA	4:V:21:PHE:O	2.46	0.64
1:G:795:ARG:HB3	3:I:35:ARG:HH22	1.62	0.64
1:J:127:ASN:HD22	1:J:128:PRO:CD	2.11	0.64
1:J:296:MLY:HH11	1:J:348:MLY:HH21	1.78	0.64
1:J:534:SER:C	4:W:351:THR:CA	2.47	0.64
1:J:612:GLN:HE22	1:J:627:GLY:N	1.95	0.64
1:J:830:PRO:HB3	2:K:67:MET:HE1	1.80	0.64
1:P:642:LYS:CD	4:0:340:TRP:CZ3	2.79	0.64
1:P:792:ALA:H	3:R:42:THR:CG2	2.09	0.64
1:P:793:ARG:CG	3:R:87:PHE:CZ	2.81	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:0:190:MET:SD	4:0:209:VAL:HG11	2.38	0.64
4:Y:190:MET:SD	4:Y:209:VAL:HG11	2.38	0.64
1:A:94:MET:O	1:A:713:SER:HB3	1.97	0.64
1:A:505:MLY:N	1:A:762:HIS:CD2	2.66	0.64
1:A:541:MET:O	4:8:143:TYR:OH	2.14	0.64
1:A:636:LYS:O	1:A:637:LYS:CB	2.45	0.64
1:D:537:GLU:HB3	1:D:648:THR:HB	1.80	0.64
1:G:529:PRO:C	4:V:354:GLN:CB	2.50	0.64
1:G:541:MET:HG2	4:V:345:ILE:O	1.98	0.64
1:G:784:ALA:O	1:G:788:THR:CB	2.45	0.64
1:G:817:GLN:HB3	2:H:127:ARG:HD3	1.79	0.64
1:J:406:VAL:HG12	1:J:407:GLY:N	2.13	0.64
1:J:636:LYS:N	4:W:334:GLU:OE1	2.31	0.64
1:J:783:LEU:HD12	1:J:783:LEU:N	2.13	0.64
2:K:117:LEU:CG	2:K:147:ASN:CB	2.76	0.64
1:P:133:PRO:O	1:P:136:ASN:HB2	1.97	0.64
1:P:296:MLY:HH11	1:P:348:MLY:HH21	1.78	0.64
1:P:480:ILE:HG22	1:P:481:ASN:N	2.11	0.64
1:P:818:TYR:HB3	2:Q:90:GLY:CA	2.27	0.64
1:P:830:PRO:CB	2:Q:67:MET:HE1	2.28	0.64
1:A:499:GLU:CD	1:A:766:PHE:CZ	2.69	0.64
1:A:502:GLU:OE2	1:A:764:MLY:O	2.16	0.64
1:D:127:ASN:HD22	1:D:128:PRO:CD	2.11	0.64
2:E:140:PHE:HB3	2:E:144:VAL:CG1	2.28	0.64
1:G:806:MET:O	1:G:809:ARG:HB2	1.98	0.64
1:G:819:ASN:ND2	2:H:92:ASP:CA	2.59	0.64
2:H:140:PHE:HB3	2:H:144:VAL:CG1	2.28	0.64
1:J:480:ILE:HG22	1:J:481:ASN:N	2.11	0.64
1:J:636:LYS:O	1:J:637:LYS:CB	2.45	0.64
1:J:725:ARG:NE	1:J:737:PHE:CE1	2.67	0.64
1:J:756:THR:HA	1:J:776:GLU:OE1	1.95	0.64
2:K:140:PHE:HB3	2:K:144:VAL:CG1	2.28	0.64
1:P:406:VAL:HG12	1:P:407:GLY:N	2.13	0.64
1:P:721:LYS:HG2	1:P:736:GLN:CD	1.86	0.64
4:1:287:ILE:HG13	4:3:202:THR:CB	2.26	0.64
4:4:190:MET:SD	4:4:209:VAL:HG11	2.38	0.64
4:9:190:MET:SD	4:9:209:VAL:HG11	2.38	0.64
1:A:553:MLY:CE	4:V:45:VAL:CA	2.49	0.63
1:A:792:ALA:CB	3:C:42:THR:CG2	2.55	0.63
3:C:3:SER:HG	3:C:5:ALA:N	1.96	0.63
1:D:724:TYR:HB3	1:D:727:LEU:HD12	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:146:GLY:O	2:E:147:ASN:CB	2.46	0.63
1:G:479:CYS:HB3	1:G:653:PHE:CE2	2.32	0.63
1:G:577:ALA:O	1:G:578:HIS:CD2	2.51	0.63
1:G:792:ALA:HB1	3:I:42:THR:N	2.14	0.63
1:J:537:GLU:C	4:W:351:THR:N	2.51	0.63
1:J:577:ALA:O	1:J:578:HIS:CD2	2.51	0.63
1:J:801:VAL:HG21	3:L:126:LEU:HD21	1.78	0.63
3:L:49:ILE:HA	3:L:52:ASN:ND2	2.06	0.63
1:P:127:ASN:HD22	1:P:128:PRO:CD	2.11	0.63
1:P:479:CYS:HB3	1:P:653:PHE:CE2	2.33	0.63
1:P:537:GLU:C	4:0:351:THR:N	2.51	0.63
1:P:642:LYS:CA	4:0:21:PHE:O	2.45	0.63
1:P:724:TYR:HB3	1:P:727:LEU:HD12	1.80	0.63
1:P:732:ILE:HG21	1:P:747:LEU:HD11	0.73	0.63
2:Q:132:GLU:O	2:Q:136:MET:HG2	1.99	0.63
2:Q:146:GLY:O	2:Q:147:ASN:CB	2.46	0.63
4:2:190:MET:SD	4:2:209:VAL:HG11	2.38	0.63
1:A:813:ILE:CG2	2:B:127:ARG:HB2	2.28	0.63
1:D:783:LEU:HD12	1:D:783:LEU:N	2.13	0.63
2:H:117:LEU:HD11	2:H:147:ASN:HB3	1.76	0.63
1:J:278:GLN:CG	1:J:317:GLU:HB2	2.27	0.63
2:Q:149:ASP:OD2	2:Q:150:TYR:C	2.36	0.63
4:2:287:ILE:CB	4:4:204:ALA:H	2.11	0.63
4:W:190:MET:SD	4:W:209:VAL:HG11	2.38	0.63
1:A:530:MET:HA	4:8:354:GLN:CB	2.29	0.63
1:D:218:LEU:CD2	1:D:222:ILE:HG12	2.28	0.63
2:E:117:LEU:CG	2:E:147:ASN:CB	2.76	0.63
2:E:132:GLU:O	2:E:136:MET:HG2	1.99	0.63
2:E:140:PHE:O	2:E:141:PRO:C	2.33	0.63
1:G:215:GLN:CA	1:G:340:ILE:CG2	2.63	0.63
1:G:642:LYS:CG	4:V:22:ALA:C	2.66	0.63
1:G:834:LEU:CD2	2:H:34:ILE:HD11	2.28	0.63
1:J:642:LYS:CG	4:W:22:ALA:C	2.67	0.63
1:P:84:MLY:HD2	1:P:724:TYR:OH	1.97	0.63
1:P:166:MET:HE3	1:P:254:PHE:HD2	1.62	0.63
1:P:735:GLY:O	1:P:743:ALA:HA	1.94	0.63
4:0:257:CYS:HB3	4:0:258:PRO:HD3	1.81	0.63
4:Y:257:CYS:HB3	4:Y:258:PRO:HD3	1.81	0.63
1:A:783:LEU:HD12	1:A:783:LEU:N	2.13	0.63
2:B:121:LEU:HA	2:B:128:PHE:CG	2.34	0.63
1:D:538:GLU:HA	4:9:349:LEU:HB3	1.78	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:577:ALA:O	1:D:578:HIS:CD2	2.51	0.63
1:J:537:GLU:HB3	1:J:648:THR:HB	1.80	0.63
1:J:541:MET:HG2	4:W:345:ILE:O	1.98	0.63
1:P:577:ALA:O	1:P:578:HIS:CD2	2.51	0.63
1:P:636:LYS:N	4:0:334:GLU:OE1	2.31	0.63
1:P:724:TYR:HD1	1:P:727:LEU:HD11	1.64	0.63
1:P:786:ILE:HA	1:P:788:THR:H	1.63	0.63
4:1:202:THR:OG1	4:Z:287:ILE:CG2	2.42	0.63
4:W:257:CYS:HB3	4:W:258:PRO:HD3	1.81	0.63
4:X:324:THR:O	4:Z:245:GLY:HA3	1.98	0.63
1:A:406:VAL:HG12	1:A:407:GLY:N	2.13	0.63
1:A:537:GLU:C	4:8:351:THR:N	2.52	0.63
1:A:636:LYS:N	4:8:334:GLU:OE1	2.31	0.63
2:B:146:GLY:O	2:B:147:ASN:CB	2.46	0.63
1:D:133:PRO:O	1:D:136:ASN:HB2	1.98	0.63
1:D:278:GLN:CG	1:D:317:GLU:HB2	2.27	0.63
1:D:538:GLU:HA	4:9:349:LEU:CG	2.27	0.63
1:D:724:TYR:HD1	1:D:727:LEU:HD11	1.64	0.63
1:G:537:GLU:HB3	1:G:648:THR:HB	1.81	0.63
2:H:121:LEU:HA	2:H:128:PHE:CG	2.34	0.63
3:I:4:LYS:N	3:I:5:ALA:O	2.16	0.63
1:J:541:MET:CA	4:W:143:TYR:OH	2.46	0.63
1:J:819:ASN:OD1	2:K:92:ASP:HB2	1.98	0.63
1:P:642:LYS:CG	4:0:22:ALA:C	2.67	0.63
1:P:732:ILE:HG22	1:P:747:LEU:CD1	1.55	0.63
1:P:771:LEU:O	1:P:774:LEU:N	2.32	0.63
4:2:257:CYS:HB3	4:2:258:PRO:HD3	1.81	0.63
4:Z:190:MET:SD	4:Z:209:VAL:HG11	2.38	0.63
1:A:127:ASN:HD22	1:A:128:PRO:CD	2.11	0.63
1:A:577:ALA:O	1:A:578:HIS:CD2	2.52	0.63
1:A:724:TYR:HD1	1:A:727:LEU:HD11	1.64	0.63
2:B:114:LYS:HA	2:B:146:GLY:C	2.03	0.63
2:B:149:ASP:OD2	2:B:150:TYR:C	2.36	0.63
1:D:806:MET:O	1:D:809:ARG:HB2	1.98	0.63
1:G:530:MET:HE3	4:V:354:GLN:CG	2.23	0.63
1:G:643:GLY:H	4:V:23:GLY:C	2.02	0.63
1:G:724:TYR:HB3	1:G:727:LEU:HD12	1.79	0.63
1:G:725:ARG:NE	1:G:737:PHE:CE1	2.67	0.63
1:G:754:ASP:CG	1:G:776:GLU:HA	2.18	0.63
1:G:789:ALA:HB1	3:I:81:GLN:CD	2.18	0.63
1:J:141:LEU:H	1:J:141:LEU:HD12	1.64	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:795:ARG:HD2	3:L:43:ASN:N	2.13	0.63
1:J:836:PHE:CE2	2:K:160:GLY:HA3	2.34	0.63
1:P:94:MET:HE1	1:P:101:ALA:HB1	1.79	0.63
1:P:141:LEU:HD12	1:P:141:LEU:H	1.64	0.63
1:P:799:MET:CB	3:R:35:ARG:CD	2.73	0.63
1:P:831:TRP:HH2	2:Q:47:LEU:HD21	1.21	0.63
3:R:49:ILE:HA	3:R:52:ASN:ND2	2.06	0.63
1:A:542:PHE:CZ	1:A:553:MLY:HH11	2.34	0.63
1:A:831:TRP:CD2	2:B:51:PHE:CE1	2.84	0.63
1:D:541:MET:HG2	4:9:345:ILE:O	1.98	0.63
1:G:541:MET:CA	4:V:143:TYR:OH	2.47	0.63
1:P:576:GLU:CG	1:P:577:ALA:N	2.43	0.63
1:P:793:ARG:NH2	3:R:87:PHE:HE1	1.96	0.63
2:Q:144:VAL:HA	2:Q:153:ILE:HD11	1.80	0.63
4:7:257:CYS:HB3	4:7:258:PRO:HD3	1.81	0.63
4:9:257:CYS:HB3	4:9:258:PRO:HD3	1.81	0.63
1:D:411:GLU:N	4:9:333:PRO:HB2	2.10	0.63
1:G:636:LYS:O	1:G:637:LYS:CB	2.45	0.63
1:G:636:LYS:N	4:V:334:GLU:OE1	2.31	0.63
2:H:144:VAL:HA	2:H:153:ILE:HD11	1.80	0.63
2:K:132:GLU:O	2:K:136:MET:HG2	1.99	0.63
4:5:257:CYS:HB3	4:5:258:PRO:HD3	1.81	0.63
4:X:324:THR:OG1	4:Z:246:GLN:HA	1.98	0.63
1:A:149:GLN:CB	1:A:718:ALA:C	2.59	0.63
1:A:797:PHE:CD2	3:C:146:ILE:HG23	2.34	0.63
1:D:251:ARG:HB2	1:D:264:ASP:CB	2.29	0.63
1:G:754:ASP:C	1:G:776:GLU:OE1	2.37	0.63
2:H:149:ASP:OD2	2:H:150:TYR:C	2.36	0.63
1:J:218:LEU:CD2	1:J:222:ILE:HG12	2.28	0.63
1:J:724:TYR:HD1	1:J:727:LEU:HD11	1.64	0.63
3:L:3:SER:HG	3:L:5:ALA:N	1.97	0.63
2:Q:121:LEU:HA	2:Q:128:PHE:CG	2.34	0.63
4:4:257:CYS:HB3	4:4:258:PRO:HD3	1.81	0.63
4:5:190:MET:SD	4:5:209:VAL:HG11	2.38	0.63
4:X:190:MET:SD	4:X:209:VAL:HG11	2.38	0.63
1:A:502:GLU:HA	1:A:761:GLY:C	2.18	0.62
1:A:537:GLU:HB3	1:A:648:THR:HB	1.80	0.62
1:A:643:GLY:H	4:8:23:GLY:C	2.02	0.62
1:D:507:GLY:O	1:D:762:HIS:N	2.30	0.62
1:D:551:MLY:C	4:W:46:GLY:O	2.47	0.62
1:D:636:LYS:N	4:9:334:GLU:OE1	2.31	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:642:LYS:CA	4:9:21:PHE:O	2.46	0.62
1:D:795:ARG:NH2	3:F:116:GLU:HG2	2.11	0.62
3:F:24:LYS:HB3	3:F:63:ILE:H	1.64	0.62
1:G:251:ARG:HB2	1:G:264:ASP:CB	2.29	0.62
1:G:537:GLU:C	4:V:351:THR:N	2.51	0.62
1:G:792:ALA:HB1	3:I:42:THR:CA	2.28	0.62
1:G:796:GLY:CA	3:I:35:ARG:HD3	2.16	0.62
1:G:829:TRP:CH2	2:H:87:LYS:CE	2.82	0.62
2:H:144:VAL:CG1	2:H:153:ILE:HD13	2.19	0.62
1:P:91:MET:HE3	1:P:119:SER:HB2	1.80	0.62
1:P:783:LEU:HD12	1:P:783:LEU:N	2.13	0.62
4:7:190:MET:SD	4:7:209:VAL:HG11	2.38	0.62
1:A:753:VAL:HG11	1:A:775:LEU:HD23	1.81	0.62
1:A:797:PHE:CD1	3:C:146:ILE:C	2.72	0.62
1:D:642:LYS:CG	4:9:22:ALA:C	2.67	0.62
1:D:795:ARG:CB	3:F:35:ARG:CZ	2.50	0.62
2:E:117:LEU:HD11	2:E:147:ASN:HB3	1.76	0.62
1:J:166:MET:HE3	1:J:254:PHE:CD2	2.34	0.62
1:J:541:MET:HE1	4:W:346:LEU:HD12	1.81	0.62
2:K:146:GLY:O	2:K:147:ASN:CB	2.46	0.62
2:K:149:ASP:OD2	2:K:150:TYR:C	2.36	0.62
1:P:278:GLN:HG3	1:P:318:GLY:N	2.15	0.62
1:P:541:MET:HE2	4:0:346:LEU:HD12	1.81	0.62
2:Q:111:SER:OG	2:Q:148:VAL:CG1	2.47	0.62
2:Q:117:LEU:HD11	2:Q:147:ASN:HB3	1.76	0.62
3:R:24:LYS:HB3	3:R:63:ILE:H	1.64	0.62
4:V:190:MET:SD	4:V:209:VAL:HG11	2.38	0.62
4:X:287:ILE:C	4:Z:205:GLU:OE1	2.37	0.62
1:A:149:GLN:HG2	1:A:719:ASP:HB2	1.81	0.62
1:A:274:ARG:HB2	1:A:285:TYR:CE2	2.34	0.62
1:A:302:MET:HG2	1:A:303:LEU:CD1	2.29	0.62
1:A:538:GLU:CD	4:8:355:MET:HE3	2.20	0.62
1:A:541:MET:HG2	4:8:345:ILE:O	1.98	0.62
1:A:542:PHE:N	4:8:143:TYR:OH	2.33	0.62
1:A:551:MLY:C	4:V:46:GLY:O	2.47	0.62
1:A:578:HIS:CB	1:A:592:ILE:HD12	2.30	0.62
1:A:730:SER:C	1:A:733:PRO:HD2	2.20	0.62
1:D:541:MET:HE2	4:9:346:LEU:HD12	1.82	0.62
1:D:725:ARG:NE	1:D:737:PHE:CE1	2.67	0.62
1:G:141:LEU:H	1:G:141:LEU:HD12	1.64	0.62
1:G:544:LYS:HB2	4:V:147:ARG:HA	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:724:TYR:HD1	1:G:727:LEU:HD11	1.64	0.62
1:J:278:GLN:HG3	1:J:318:GLY:N	2.15	0.62
1:J:530:MET:CG	4:W:354:GLN:CG	2.72	0.62
1:P:541:MET:HG2	4:0:345:ILE:O	1.98	0.62
1:P:541:MET:CA	4:0:143:TYR:OH	2.46	0.62
1:P:578:HIS:CB	1:P:592:ILE:HD12	2.30	0.62
1:P:755:HIS:HA	1:P:758:TYR:HE1	1.64	0.62
4:8:361:GLU:HB3	4:8:369:ILE:HG12	1.82	0.62
1:A:541:MET:CA	4:8:143:TYR:OH	2.47	0.62
1:A:544:LYS:HB2	4:8:147:ARG:HA	1.80	0.62
1:A:553:MLY:CG	4:V:47:MET:N	2.54	0.62
1:A:724:TYR:HB3	1:A:727:LEU:HD12	1.79	0.62
1:D:580:SER:HA	1:D:588:VAL:O	2.00	0.62
1:D:712:PRO:HD2	1:D:771:LEU:HD13	1.82	0.62
1:G:97:LEU:HD21	1:G:712:PRO:CB	2.24	0.62
1:G:202:SER:CA	1:G:207:LYS:HE3	2.28	0.62
1:G:542:PHE:N	4:V:143:TYR:OH	2.33	0.62
1:G:795:ARG:HB3	3:I:35:ARG:HH12	1.61	0.62
1:G:796:GLY:N	3:I:35:ARG:CZ	2.61	0.62
1:G:834:LEU:HD12	2:H:51:PHE:HE1	1.65	0.62
1:J:580:SER:HA	1:J:588:VAL:O	2.00	0.62
1:J:724:TYR:HB3	1:J:727:LEU:HD12	1.80	0.62
1:J:771:LEU:O	1:J:774:LEU:N	2.32	0.62
2:K:144:VAL:CG1	2:K:153:ILE:HD13	2.20	0.62
1:P:251:ARG:HB2	1:P:264:ASP:CB	2.29	0.62
1:P:580:SER:HA	1:P:588:VAL:O	2.00	0.62
4:1:190:MET:SD	4:1:209:VAL:HG11	2.38	0.62
4:1:288:ASP:CB	4:3:203:THR:HG21	2.29	0.62
4:8:257:CYS:HB3	4:8:258:PRO:HD3	1.81	0.62
4:V:361:GLU:HB3	4:V:369:ILE:HG12	1.82	0.62
1:A:161:ASN:HA	1:A:164:GLN:HE21	1.63	0.62
1:A:251:ARG:HB2	1:A:264:ASP:CB	2.29	0.62
1:A:771:LEU:O	1:A:774:LEU:N	2.32	0.62
1:D:210:GLN:O	1:D:211:SER:OG	2.15	0.62
1:D:542:PHE:CZ	1:D:553:MLY:HH11	2.34	0.62
1:D:712:PRO:C	1:D:771:LEU:HD22	2.20	0.62
1:D:771:LEU:O	1:D:774:LEU:N	2.32	0.62
2:E:144:VAL:HA	2:E:153:ILE:HD11	1.80	0.62
1:G:788:THR:O	3:I:42:THR:CG2	2.47	0.62
2:H:146:GLY:O	2:H:147:ASN:CB	2.46	0.62
1:J:251:ARG:HB2	1:J:264:ASP:CB	2.29	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:538:GLU:HA	4:W:349:LEU:CG	2.28	0.62
1:J:730:SER:C	1:J:733:PRO:HD2	2.20	0.62
1:J:798:LEU:HD12	3:L:126:LEU:HD11	1.73	0.62
1:J:813:ILE:O	1:J:817:GLN:N	2.30	0.62
2:K:121:LEU:HA	2:K:128:PHE:CG	2.34	0.62
1:P:530:MET:HE3	4:0:354:GLN:HG2	1.78	0.62
1:P:725:ARG:NE	1:P:737:PHE:CE1	2.67	0.62
4:Y:361:GLU:HB3	4:Y:369:ILE:HG12	1.82	0.62
1:A:505:MLY:HB2	1:A:761:GLY:CA	2.27	0.62
1:A:520:ALA:O	1:A:524:GLU:HG2	2.00	0.62
1:A:799:MET:SD	3:C:32:ASP:C	2.78	0.62
1:D:541:MET:CA	4:9:143:TYR:OH	2.47	0.62
1:D:830:PRO:HG2	2:E:67:MET:HE2	1.79	0.62
2:E:114:LYS:HG3	2:E:146:GLY:HA2	1.82	0.62
1:G:127:ASN:HD22	1:G:128:PRO:CD	2.11	0.62
1:G:503:TYR:HE1	1:G:711:PHE:CE2	2.02	0.62
1:G:542:PHE:CZ	1:G:553:MLY:HH11	2.34	0.62
1:G:799:MET:SD	3:I:32:ASP:OD2	2.58	0.62
1:G:817:GLN:HG2	2:H:127:ARG:HB3	1.81	0.62
1:J:93:MET:HG2	1:J:715:VAL:HA	1.81	0.62
1:J:732:ILE:HG22	1:J:747:LEU:CD1	1.55	0.62
1:J:797:PHE:CE2	3:L:126:LEU:CD2	2.79	0.62
2:K:111:SER:OG	2:K:148:VAL:CG1	2.48	0.62
1:P:792:ALA:CB	3:R:42:THR:HG23	2.28	0.62
4:0:288:ASP:HB3	4:2:63:GLY:H	1.62	0.62
4:0:361:GLU:HB3	4:0:369:ILE:HG12	1.82	0.62
4:7:361:GLU:HB3	4:7:369:ILE:HG12	1.82	0.62
4:9:361:GLU:HB3	4:9:369:ILE:HG12	1.82	0.62
4:W:361:GLU:HB3	4:W:369:ILE:HG12	1.82	0.62
4:X:291:LYS:HD2	4:Z:243:PRO:C	2.10	0.62
4:X:361:GLU:HB3	4:X:369:ILE:HG12	1.82	0.62
1:A:541:MET:HE2	4:8:346:LEU:HD12	1.82	0.62
1:A:580:SER:HA	1:A:588:VAL:O	2.00	0.62
1:A:725:ARG:NE	1:A:737:PHE:CE1	2.67	0.62
2:B:132:GLU:O	2:B:136:MET:HG2	1.99	0.62
1:D:543:PRO:HG2	4:9:143:TYR:O	1.98	0.62
1:D:578:HIS:CB	1:D:592:ILE:HD12	2.30	0.62
1:D:819:ASN:OD1	2:E:92:ASP:N	2.18	0.62
2:E:121:LEU:HA	2:E:128:PHE:CG	2.34	0.62
1:G:91:MET:HE3	1:G:119:SER:HB2	1.82	0.62
1:G:154:HIS:CE1	1:G:156:PHE:CD2	2.88	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:278:GLN:HG3	1:G:318:GLY:N	2.14	0.62
1:G:543:PRO:HG2	4:V:143:TYR:O	1.98	0.62
1:G:771:LEU:O	1:G:774:LEU:N	2.32	0.62
2:H:132:GLU:O	2:H:136:MET:HG2	1.99	0.62
3:I:50:LEU:O	3:I:53:PRO:HD2	2.00	0.62
1:J:161:ASN:HA	1:J:164:GLN:HE21	1.64	0.62
1:J:542:PHE:CZ	1:J:553:MLY:HH11	2.34	0.62
1:J:544:LYS:HB2	4:W:147:ARG:HA	1.80	0.62
1:P:537:GLU:HB3	1:P:648:THR:HB	1.80	0.62
1:P:538:GLU:HA	4:0:349:LEU:CG	2.28	0.62
1:P:542:PHE:CB	4:0:143:TYR:HE1	2.13	0.62
4:2:361:GLU:HB3	4:2:369:ILE:HG12	1.82	0.62
1:A:278:GLN:CG	1:A:317:GLU:HB2	2.27	0.62
1:A:543:PRO:HG2	4:8:143:TYR:O	1.98	0.62
1:A:839:MLY:CH1	2:B:159:HIS:HD2	2.12	0.62
1:D:406:VAL:HG12	1:D:407:GLY:N	2.13	0.62
1:D:542:PHE:CB	4:9:143:TYR:HE1	2.13	0.62
1:D:725:ARG:O	1:D:782:MLY:HH22	2.00	0.62
1:G:98:HIS:HB3	1:G:100:PRO:CD	2.25	0.62
1:G:302:MET:HG2	1:G:303:LEU:CD1	2.30	0.62
1:G:578:HIS:CB	1:G:592:ILE:HD12	2.30	0.62
1:G:797:PHE:HE2	3:I:126:LEU:CG	2.12	0.62
1:J:541:MET:C	4:W:143:TYR:CZ	2.72	0.62
1:J:642:LYS:CD	4:W:24:ASP:O	2.43	0.62
1:J:791:GLN:NE2	3:L:116:GLU:N	2.47	0.62
3:L:50:LEU:O	3:L:53:PRO:HD2	2.00	0.62
1:P:544:LYS:HB2	4:0:147:ARG:HA	1.80	0.62
1:P:730:SER:C	1:P:733:PRO:HD2	2.19	0.62
4:3:257:CYS:HB3	4:3:258:PRO:HD3	1.81	0.62
4:V:257:CYS:HB3	4:V:258:PRO:HD3	1.81	0.62
4:X:287:ILE:O	4:Z:205:GLU:CD	2.38	0.62
1:A:98:HIS:HB3	1:A:100:PRO:CD	2.25	0.62
1:A:643:GLY:O	1:A:644:SER:CB	2.48	0.62
1:D:141:LEU:H	1:D:141:LEU:HD12	1.64	0.62
1:D:166:MET:HE3	1:D:254:PHE:HD2	1.64	0.62
1:D:755:HIS:HA	1:D:758:TYR:HE1	1.65	0.62
1:D:798:LEU:CD1	3:F:126:LEU:HD21	2.30	0.62
1:G:541:MET:C	4:V:143:TYR:CZ	2.73	0.62
1:G:580:SER:HA	1:G:588:VAL:O	2.00	0.62
1:G:834:LEU:CD2	2:H:34:ILE:CD1	2.78	0.62
2:H:111:SER:OG	2:H:148:VAL:CG1	2.47	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:94:MET:HE1	1:J:101:ALA:HB1	1.80	0.62
1:P:161:ASN:HA	1:P:164:GLN:HE21	1.63	0.62
1:P:708:ARG:HA	1:P:712:PRO:CG	2.25	0.62
4:2:322:PRO:CB	4:4:244:ASP:HB2	2.26	0.62
4:3:190:MET:SD	4:3:209:VAL:HG11	2.38	0.62
1:A:541:MET:C	4:8:143:TYR:CZ	2.73	0.62
1:A:553:MLY:O	4:V:48:GLY:HA2	1.99	0.62
1:A:579:PHE:CE1	1:A:581:LEU:HD13	2.35	0.62
1:D:302:MET:HG2	1:D:303:LEU:CD1	2.30	0.62
1:D:520:ALA:O	1:D:524:GLU:HG2	2.00	0.62
1:D:553:MLY:O	4:W:48:GLY:HA2	1.99	0.62
1:D:712:PRO:CG	1:D:771:LEU:HB2	2.17	0.62
1:J:557:GLU:HG3	1:J:557:GLU:O	2.00	0.62
1:P:274:ARG:HB2	1:P:285:TYR:CE2	2.34	0.62
4:1:257:CYS:HB3	4:1:258:PRO:HD3	1.81	0.62
4:3:361:GLU:HB3	4:3:369:ILE:HG12	1.82	0.62
4:X:257:CYS:HB3	4:X:258:PRO:HD3	1.81	0.62
1:A:81:ASN:OD1	1:A:96:HIS:HB2	2.00	0.61
1:A:278:GLN:HG3	1:A:318:GLY:N	2.15	0.61
1:A:736:GLN:HA	1:A:743:ALA:HB1	1.27	0.61
1:A:768:MLY:HB3	1:A:771:LEU:HB2	0.75	0.61
1:D:161:ASN:HA	1:D:164:GLN:HE21	1.64	0.61
1:D:295:MLY:HG3	1:D:332:MET:HE1	1.80	0.61
1:D:537:GLU:C	4:9:351:THR:N	2.51	0.61
1:D:634:GLY:N	4:9:25:ASP:O	2.31	0.61
3:F:49:ILE:HA	3:F:52:ASN:ND2	2.05	0.61
1:G:278:GLN:CG	1:G:317:GLU:HB2	2.27	0.61
1:G:834:LEU:CD1	2:H:51:PHE:HE1	2.13	0.61
1:J:831:TRP:CZ3	2:K:34:ILE:HD13	2.33	0.61
1:P:84:MLY:HE2	1:P:723:ARG:HD2	1.80	0.61
1:A:686:MET:HG3	1:A:691:VAL:HG21	1.82	0.61
2:B:111:SER:OG	2:B:148:VAL:CG1	2.47	0.61
1:D:813:ILE:CG2	2:E:128:PHE:HE1	2.03	0.61
2:E:34:ILE:O	2:E:46:ASP:HB3	2.01	0.61
1:G:730:SER:C	1:G:733:PRO:HD2	2.20	0.61
1:G:797:PHE:HE2	3:I:126:LEU:CD2	2.03	0.61
2:H:117:LEU:CG	2:H:147:ASN:CB	2.76	0.61
3:I:24:LYS:HB3	3:I:63:ILE:H	1.64	0.61
1:J:717:TYR:HD1	1:J:744:SER:HG	1.47	0.61
1:P:81:ASN:OD1	1:P:96:HIS:HB2	2.00	0.61
1:P:818:TYR:HE1	2:Q:127:ARG:NH2	1.88	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:836:PHE:CE1	2:Q:160:GLY:N	2.62	0.61
4:1:203:THR:N	4:Z:287:ILE:CD1	2.62	0.61
4:5:361:GLU:HB3	4:5:369:ILE:HG12	1.82	0.61
4:X:287:ILE:CG1	4:Z:201:VAL:CB	2.75	0.61
4:Z:257:CYS:HB3	4:Z:258:PRO:HD3	1.81	0.61
4:Z:361:GLU:HB3	4:Z:369:ILE:HG12	1.82	0.61
1:A:154:HIS:CE1	1:A:156:PHE:CD2	2.88	0.61
1:D:274:ARG:HB2	1:D:285:TYR:CE2	2.34	0.61
1:D:278:GLN:HG3	1:D:318:GLY:N	2.15	0.61
1:D:730:SER:C	1:D:733:PRO:HD2	2.20	0.61
1:D:732:ILE:HG21	1:D:782:MLY:CH2	2.24	0.61
1:D:798:LEU:HD12	3:F:126:LEU:HD21	1.82	0.61
2:E:111:SER:OG	2:E:148:VAL:CG1	2.48	0.61
1:G:161:ASN:HA	1:G:164:GLN:HE21	1.63	0.61
1:G:799:MET:SD	3:I:32:ASP:CG	2.78	0.61
3:I:3:SER:HG	3:I:5:ALA:N	1.98	0.61
1:J:542:PHE:CB	4:W:143:TYR:HE1	2.13	0.61
1:J:553:MLY:HE3	4:Y:45:VAL:HG12	1.80	0.61
2:K:114:LYS:HG3	2:K:146:GLY:HA2	1.82	0.61
1:P:154:HIS:CE1	1:P:156:PHE:CD2	2.88	0.61
1:P:643:GLY:H	4:0:23:GLY:C	2.02	0.61
1:P:804:ARG:CD	1:P:808:GLU:OE2	2.48	0.61
1:A:141:LEU:H	1:A:141:LEU:HD12	1.64	0.61
1:A:541:MET:SD	4:8:346:LEU:O	2.48	0.61
1:A:642:LYS:CG	4:8:22:ALA:C	2.67	0.61
1:D:541:MET:C	4:9:143:TYR:CZ	2.73	0.61
3:F:63:ILE:HG22	3:F:64:THR:O	2.01	0.61
1:G:81:ASN:OD1	1:G:96:HIS:HB2	2.00	0.61
1:J:274:ARG:HB2	1:J:285:TYR:CE2	2.34	0.61
1:J:411:GLU:N	4:W:333:PRO:HB2	2.11	0.61
1:J:578:HIS:CB	1:J:592:ILE:HD12	2.30	0.61
1:P:302:MET:HG2	1:P:303:LEU:CD1	2.30	0.61
1:P:769:ALA:O	1:P:771:LEU:N	2.34	0.61
4:1:202:THR:CB	4:Z:287:ILE:CG1	2.79	0.61
4:1:287:ILE:CG2	4:3:202:THR:C	2.68	0.61
4:V:286:ASP:OD2	4:X:203:THR:CG2	2.47	0.61
1:A:530:MET:HE3	4:8:355:MET:SD	2.41	0.61
1:A:752:ASP:O	1:A:778:MET:HB3	1.99	0.61
1:G:274:ARG:HB2	1:G:285:TYR:CE2	2.34	0.61
1:G:541:MET:HE2	4:V:346:LEU:HD12	1.82	0.61
1:G:553:MLY:HB2	4:X:46:GLY:HA3	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:579:PHE:CE1	1:G:581:LEU:HD13	2.35	0.61
1:G:639:GLY:N	4:V:344:SER:C	2.54	0.61
1:G:813:ILE:HG21	2:H:128:PHE:CE1	2.34	0.61
2:H:114:LYS:HG3	2:H:146:GLY:HA2	1.82	0.61
1:J:623:PHE:CG	1:J:623:PHE:HA	2.35	0.61
1:J:756:THR:HG21	1:J:776:GLU:HA	1.62	0.61
1:P:541:MET:C	4:0:143:TYR:CZ	2.72	0.61
1:P:803:TYR:CD2	1:P:807:VAL:HG21	2.35	0.61
1:P:817:GLN:OE1	2:Q:127:ARG:CD	2.40	0.61
4:0:245:GLY:H	4:Y:291:LYS:CB	2.10	0.61
1:A:542:PHE:CB	4:8:143:TYR:HE1	2.12	0.61
1:D:544:LYS:HB2	4:9:147:ARG:HA	1.80	0.61
1:D:686:MET:HG3	1:D:691:VAL:HG21	1.83	0.61
1:G:643:GLY:O	1:G:644:SER:CB	2.48	0.61
1:G:819:ASN:CB	2:H:90:GLY:O	2.45	0.61
3:I:52:ASN:N	3:I:53:PRO:HD2	2.16	0.61
1:J:202:SER:HA	1:J:207:LYS:HE3	1.72	0.61
1:J:579:PHE:CE1	1:J:581:LEU:HD13	2.35	0.61
1:J:639:GLY:N	4:W:344:SER:C	2.54	0.61
1:P:542:PHE:CZ	1:P:553:MLY:HH11	2.34	0.61
1:P:829:TRP:CH2	2:Q:87:LYS:NZ	2.68	0.61
3:R:52:ASN:HB2	3:R:53:PRO:CD	2.28	0.61
4:1:203:THR:CG2	4:Z:288:ASP:OD2	2.44	0.61
1:A:99:GLU:OE2	1:A:696:ARG:NH2	2.30	0.61
1:D:557:GLU:HG3	1:D:557:GLU:O	2.00	0.61
1:D:643:GLY:H	4:9:23:GLY:C	2.02	0.61
3:F:50:LEU:O	3:F:53:PRO:HD2	2.00	0.61
1:G:503:TYR:CZ	1:G:711:PHE:HE2	2.12	0.61
1:G:524:GLU:O	1:G:528:MLY:HB3	2.01	0.61
1:J:302:MET:HG2	1:J:303:LEU:CD1	2.30	0.61
1:J:543:PRO:HG2	4:W:143:TYR:O	1.98	0.61
1:J:643:GLY:H	4:W:23:GLY:C	2.02	0.61
1:A:502:GLU:O	1:A:761:GLY:HA2	2.01	0.61
1:A:809:ARG:NH1	2:B:124:GLY:CA	2.64	0.61
3:C:24:LYS:HB3	3:C:63:ILE:H	1.64	0.61
1:D:217:THR:C	1:D:221:GLN:HG2	2.21	0.61
1:D:831:TRP:CD2	2:E:51:PHE:CZ	2.88	0.61
2:E:144:VAL:CG1	2:E:153:ILE:HD13	2.19	0.61
1:G:557:GLU:HG3	1:G:557:GLU:O	2.00	0.61
3:I:63:ILE:HG22	3:I:64:THR:O	2.01	0.61
1:J:530:MET:HA	4:W:354:GLN:CB	2.28	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:643:GLY:O	1:J:644:SER:CB	2.49	0.61
1:P:40:VAL:HG22	1:P:41:VAL:N	2.16	0.61
1:P:831:TRP:HZ3	2:Q:34:ILE:CD1	2.01	0.61
2:Q:114:LYS:HG3	2:Q:146:GLY:HA2	1.82	0.61
1:A:217:THR:C	1:A:221:GLN:HG2	2.21	0.61
1:A:800:ARG:HD2	3:C:149:VAL:O	2.00	0.61
1:D:81:ASN:OD1	1:D:96:HIS:HB2	2.00	0.61
1:D:154:HIS:CE1	1:D:156:PHE:CD2	2.88	0.61
1:D:578:HIS:CD2	1:D:591:ASN:HA	2.31	0.61
1:D:579:PHE:CE1	1:D:581:LEU:HD13	2.35	0.61
1:D:623:PHE:CG	1:D:623:PHE:HA	2.36	0.61
1:D:643:GLY:O	1:D:644:SER:CB	2.48	0.61
3:F:52:ASN:N	3:F:53:PRO:HD2	2.15	0.61
1:G:520:ALA:O	1:G:524:GLU:HG2	2.00	0.61
1:G:686:MET:HG3	1:G:691:VAL:HG21	1.83	0.61
1:G:795:ARG:C	3:I:35:ARG:NH2	2.53	0.61
1:J:524:GLU:O	1:J:528:MLY:HB3	2.01	0.61
1:J:686:MET:HG3	1:J:691:VAL:HG21	1.83	0.61
1:P:38:VAL:HB	1:P:52:ILE:HD11	1.83	0.61
1:P:524:GLU:O	1:P:528:MLY:HB3	2.01	0.61
1:P:665:ARG:C	1:P:667:THR:H	2.04	0.61
1:P:686:MET:HG3	1:P:691:VAL:HG21	1.83	0.61
4:4:223:PHE:HD2	4:4:312:ARG:NH2	1.99	0.61
4:4:361:GLU:HB3	4:4:369:ILE:HG12	1.82	0.61
4:X:291:LYS:HG3	4:Z:244:ASP:N	1.86	0.61
1:G:93:MET:HE1	1:G:764:MLY:HD2	1.82	0.61
1:G:149:GLN:HG2	1:G:716:LEU:HD11	1.83	0.61
1:G:755:HIS:HA	1:G:758:TYR:HE1	1.64	0.61
1:G:795:ARG:HE	3:I:116:GLU:HB3	0.51	0.61
1:G:834:LEU:CD2	2:H:34:ILE:HG12	2.31	0.61
1:J:154:HIS:CE1	1:J:156:PHE:CD2	2.88	0.61
1:J:202:SER:CA	1:J:207:LYS:HE3	2.27	0.61
1:J:217:THR:C	1:J:221:GLN:HG2	2.21	0.61
1:J:520:ALA:O	1:J:524:GLU:HG2	2.00	0.61
1:P:520:ALA:O	1:P:524:GLU:HG2	2.00	0.61
1:P:543:PRO:HG2	4:0:143:TYR:O	1.98	0.61
1:P:579:PHE:CE1	1:P:581:LEU:HD13	2.35	0.61
3:R:63:ILE:HG22	3:R:64:THR:O	2.01	0.61
4:5:223:PHE:HD2	4:5:312:ARG:NH2	1.99	0.61
4:8:223:PHE:HD2	4:8:312:ARG:NH2	1.99	0.61
4:9:223:PHE:HD2	4:9:312:ARG:NH2	1.99	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:127:ASN:ND2	1:A:128:PRO:HD2	2.16	0.60
1:A:156:PHE:CD1	1:A:195:TYR:CD1	2.89	0.60
1:D:507:GLY:HA2	1:D:762:HIS:CE1	2.36	0.60
1:D:530:MET:CG	4:9:354:GLN:HG3	2.30	0.60
1:D:822:SER:CB	2:E:88:LEU:HD23	2.14	0.60
1:G:124:VAL:CG1	1:G:675:ILE:HD13	2.31	0.60
1:J:81:ASN:OD1	1:J:96:HIS:HB2	2.00	0.60
1:J:95:THR:CA	1:J:713:SER:CB	2.76	0.60
1:J:665:ARG:C	1:J:667:THR:H	2.05	0.60
1:J:796:GLY:CA	3:L:35:ARG:NE	2.63	0.60
3:L:24:LYS:HB3	3:L:63:ILE:H	1.64	0.60
3:L:52:ASN:N	3:L:53:PRO:HD2	2.15	0.60
1:P:411:GLU:N	4:0:333:PRO:HB2	2.11	0.60
1:P:530:MET:CG	4:0:354:GLN:HG3	2.30	0.60
1:P:530:MET:HE3	4:0:355:MET:SD	2.41	0.60
4:0:245:GLY:N	4:Y:291:LYS:HB2	2.16	0.60
4:X:223:PHE:HD2	4:X:312:ARG:NH2	1.99	0.60
4:Y:223:PHE:HD2	4:Y:312:ARG:NH2	1.99	0.60
1:A:40:VAL:HG22	1:A:41:VAL:N	2.16	0.60
1:A:665:ARG:C	1:A:667:THR:H	2.05	0.60
1:A:837:MLY:O	1:A:840:PRO:HD2	2.02	0.60
3:C:52:ASN:N	3:C:53:PRO:HD2	2.15	0.60
1:G:40:VAL:HG22	1:G:41:VAL:N	2.16	0.60
1:G:94:MET:HE1	1:G:101:ALA:HB1	1.80	0.60
1:G:148:ARG:HE	1:G:764:MLY:HH21	1.62	0.60
1:G:829:TRP:CH2	2:H:83:MET:CE	2.83	0.60
1:J:99:GLU:OE2	1:J:696:ARG:NH2	2.30	0.60
1:J:769:ALA:HB3	1:J:770:GLY:HA3	1.83	0.60
2:K:130:PRO:HA	2:K:133:ILE:HD12	1.83	0.60
3:L:63:ILE:HG22	3:L:64:THR:O	2.01	0.60
1:P:7:MET:HE3	1:P:14:ALA:HB1	1.83	0.60
1:P:623:PHE:CG	1:P:623:PHE:HA	2.35	0.60
1:P:643:GLY:O	1:P:644:SER:CB	2.49	0.60
1:P:707:CYS:HB3	1:P:712:PRO:HA	1.83	0.60
1:P:792:ALA:CB	3:R:42:THR:CG2	2.79	0.60
4:0:223:PHE:HD2	4:0:312:ARG:NH2	1.99	0.60
4:1:287:ILE:HD13	4:3:203:THR:N	2.13	0.60
1:A:124:VAL:CG1	1:A:675:ILE:HD13	2.31	0.60
1:A:557:GLU:HG3	1:A:557:GLU:O	2.00	0.60
1:A:634:GLY:N	4:8:25:ASP:O	2.31	0.60
2:B:114:LYS:HG3	2:B:146:GLY:HA2	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:38:VAL:HB	1:D:52:ILE:HD11	1.84	0.60
1:D:576:GLU:CG	1:D:577:ALA:N	2.43	0.60
1:D:837:MLY:O	1:D:840:PRO:HD2	2.02	0.60
1:G:541:MET:SD	4:V:346:LEU:O	2.48	0.60
1:G:754:ASP:O	1:G:776:GLU:CD	2.39	0.60
1:J:95:THR:HG23	1:J:96:HIS:ND1	2.17	0.60
1:J:530:MET:CG	4:W:354:GLN:HG3	2.30	0.60
1:P:557:GLU:HG3	1:P:557:GLU:O	2.00	0.60
1:P:834:LEU:CD1	2:Q:51:PHE:CD1	2.84	0.60
2:Q:34:ILE:O	2:Q:46:ASP:HB3	2.01	0.60
3:R:50:LEU:O	3:R:53:PRO:HD2	2.00	0.60
3:R:52:ASN:N	3:R:53:PRO:HD2	2.15	0.60
4:1:223:PHE:HD2	4:1:312:ARG:NH2	1.99	0.60
4:1:361:GLU:HB3	4:1:369:ILE:HG12	1.82	0.60
1:A:40:VAL:HG22	1:A:41:VAL:H	1.67	0.60
1:A:546:THR:HG22	1:A:547:ASP:N	2.17	0.60
1:A:553:MLY:NZ	4:V:45:VAL:HG13	2.16	0.60
1:A:798:LEU:CG	3:C:126:LEU:HD11	2.30	0.60
3:C:50:LEU:O	3:C:53:PRO:HD2	2.00	0.60
1:D:7:MET:HE3	1:D:14:ALA:HB1	1.84	0.60
1:D:791:GLN:CD	3:F:116:GLU:HG3	2.16	0.60
1:D:800:ARG:HB3	3:F:149:VAL:CG2	2.31	0.60
1:D:813:ILE:O	1:D:817:GLN:N	2.30	0.60
1:G:93:MET:SD	1:G:715:VAL:CA	2.89	0.60
1:J:38:VAL:HB	1:J:52:ILE:HD11	1.83	0.60
2:K:34:ILE:O	2:K:46:ASP:HB3	2.01	0.60
1:P:95:THR:HG23	1:P:96:HIS:ND1	2.17	0.60
1:P:544:LYS:NZ	4:2:45:VAL:HG21	2.16	0.60
1:P:639:GLY:N	4:0:344:SER:C	2.54	0.60
1:A:524:GLU:O	1:A:528:MLY:HB3	2.01	0.60
1:D:541:MET:SD	4:9:346:LEU:O	2.48	0.60
1:D:542:PHE:N	4:9:143:TYR:OH	2.33	0.60
1:D:813:ILE:HG21	2:E:128:PHE:CE1	2.35	0.60
1:G:93:MET:CE	1:G:764:MLY:HD2	2.30	0.60
1:G:505:MLY:NZ	1:G:762:HIS:NE2	2.33	0.60
1:G:792:ALA:HB3	3:I:42:THR:CG2	1.91	0.60
1:G:797:PHE:CE2	3:I:126:LEU:CG	2.84	0.60
1:G:797:PHE:HE1	3:I:146:ILE:HA	1.64	0.60
1:P:40:VAL:HG22	1:P:41:VAL:H	1.67	0.60
1:P:60:VAL:O	1:P:71:THR:HA	2.02	0.60
1:P:217:THR:C	1:P:221:GLN:HG2	2.21	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:804:ARG:NH2	3:R:149:VAL:HB	2.16	0.60
1:P:817:GLN:NE2	2:Q:127:ARG:HB2	2.16	0.60
2:Q:130:PRO:HA	2:Q:133:ILE:HD12	1.83	0.60
4:7:223:PHE:HD2	4:7:312:ARG:NH2	1.99	0.60
1:A:38:VAL:HB	1:A:52:ILE:HD11	1.84	0.60
1:D:40:VAL:HG22	1:D:41:VAL:N	2.16	0.60
1:D:124:VAL:CG1	1:D:675:ILE:HD13	2.31	0.60
1:G:60:VAL:O	1:G:71:THR:HA	2.02	0.60
1:G:127:ASN:ND2	1:G:128:PRO:HD2	2.17	0.60
1:G:502:GLU:OE2	1:G:761:GLY:CA	2.49	0.60
1:G:542:PHE:CB	4:V:143:TYR:HE1	2.13	0.60
1:G:837:MLY:O	1:G:840:PRO:HD2	2.02	0.60
1:J:124:VAL:HG13	1:J:675:ILE:HD13	1.84	0.60
1:J:506:GLU:CG	1:J:760:PHE:O	2.49	0.60
1:J:578:HIS:CD2	1:J:591:ASN:HA	2.31	0.60
1:J:839:MLY:HH21	2:K:158:THR:HG22	1.83	0.60
1:P:544:LYS:HZ3	4:2:45:VAL:CG2	2.14	0.60
1:P:546:THR:HG22	1:P:547:ASP:N	2.17	0.60
1:P:795:ARG:O	3:R:35:ARG:CZ	2.49	0.60
1:A:550:PHE:CE2	1:A:592:ILE:HG23	2.37	0.60
1:A:787:ILE:O	1:A:790:THR:N	2.35	0.60
1:D:831:TRP:CZ2	2:E:47:LEU:HB3	2.30	0.60
3:F:3:SER:HG	3:F:5:ALA:N	1.98	0.60
1:J:40:VAL:HG22	1:J:41:VAL:N	2.16	0.60
1:J:60:VAL:O	1:J:71:THR:HA	2.02	0.60
1:J:542:PHE:N	4:W:143:TYR:OH	2.33	0.60
1:J:837:MLY:O	1:J:840:PRO:HD2	2.02	0.60
1:P:124:VAL:CG1	1:P:675:ILE:HD13	2.31	0.60
1:P:542:PHE:N	4:0:143:TYR:OH	2.33	0.60
1:P:838:ILE:HD12	2:Q:54:MET:HE3	1.77	0.60
4:9:287:ILE:H	4:9:287:ILE:HD12	1.67	0.60
1:A:542:PHE:CD1	4:8:143:TYR:CE1	2.90	0.60
1:A:831:TRP:CG	2:B:51:PHE:CE1	2.80	0.60
2:B:34:ILE:O	2:B:46:ASP:HB3	2.01	0.60
1:D:49:MLY:HH13	1:D:108:GLU:OE2	2.02	0.60
1:D:524:GLU:O	1:D:528:MLY:HB3	2.01	0.60
1:D:553:MLY:NZ	4:W:45:VAL:HG13	2.16	0.60
1:D:665:ARG:C	1:D:667:THR:H	2.04	0.60
1:D:717:TYR:HD1	1:D:744:SER:HG	1.49	0.60
1:G:38:VAL:HB	1:G:52:ILE:HD11	1.84	0.60
1:G:156:PHE:CD1	1:G:195:TYR:CD1	2.90	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:623:PHE:CG	1:G:623:PHE:HA	2.36	0.60
1:G:665:ARG:C	1:G:667:THR:H	2.05	0.60
1:G:795:ARG:HA	3:I:118:MET:SD	2.40	0.60
3:I:49:ILE:HA	3:I:52:ASN:ND2	2.05	0.60
1:J:97:LEU:CD2	1:J:712:PRO:HB2	2.24	0.60
1:P:124:VAL:HG13	1:P:675:ILE:HD13	1.84	0.60
1:P:799:MET:CG	3:R:35:ARG:HD2	2.32	0.60
4:V:223:PHE:HD2	4:V:312:ARG:NH2	1.99	0.60
4:Z:223:PHE:HD2	4:Z:312:ARG:NH2	1.99	0.60
1:A:60:VAL:O	1:A:71:THR:HA	2.02	0.60
1:A:95:THR:HG23	1:A:96:HIS:ND1	2.16	0.60
1:D:95:THR:HG23	1:D:96:HIS:ND1	2.17	0.60
1:D:507:GLY:HA2	1:D:762:HIS:CG	2.37	0.60
1:D:530:MET:HA	4:9:354:GLN:CB	2.29	0.60
1:D:536:LEU:HD13	1:D:550:PHE:CE1	2.37	0.60
1:D:612:GLN:HE22	1:D:627:GLY:HA2	1.66	0.60
1:D:639:GLY:N	4:9:344:SER:C	2.54	0.60
1:D:735:GLY:O	1:D:743:ALA:HA	1.94	0.60
1:G:578:HIS:CD2	1:G:591:ASN:HA	2.31	0.60
1:G:813:ILE:O	1:G:817:GLN:N	2.30	0.60
2:H:34:ILE:O	2:H:46:ASP:HB3	2.01	0.60
1:J:124:VAL:CG1	1:J:675:ILE:HD13	2.31	0.60
1:J:787:ILE:O	1:J:790:THR:N	2.35	0.60
1:P:767:PHE:CE1	1:P:772:LEU:CD1	2.85	0.60
1:P:795:ARG:CZ	3:R:42:THR:HB	2.31	0.60
4:7:287:ILE:HD12	4:7:287:ILE:H	1.67	0.60
1:A:505:MLY:CB	1:A:761:GLY:HA2	2.30	0.60
1:D:124:VAL:HG13	1:D:675:ILE:HD13	1.84	0.60
1:D:534:SER:C	4:9:351:THR:CA	2.47	0.60
1:D:815:CYS:O	2:E:90:GLY:O	2.19	0.60
1:G:217:THR:C	1:G:221:GLN:HG2	2.21	0.60
1:J:735:GLY:O	1:J:743:ALA:HA	1.94	0.60
4:2:324:THR:CG2	4:4:243:PRO:O	2.49	0.60
4:8:287:ILE:H	4:8:287:ILE:HD12	1.67	0.60
1:A:530:MET:CG	4:8:354:GLN:HG3	2.30	0.59
1:A:721:LYS:HG2	1:A:736:GLN:CD	1.86	0.59
1:A:839:MLY:HH11	2:B:159:HIS:HD2	1.67	0.59
1:D:60:VAL:O	1:D:71:THR:HA	2.02	0.59
1:D:91:MET:HE3	1:D:119:SER:HB2	1.84	0.59
1:G:530:MET:CG	4:V:354:GLN:HG3	2.30	0.59
1:P:49:MLY:HH13	1:P:108:GLU:OE2	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:117:LEU:CG	2:Q:147:ASN:CB	2.76	0.59
4:3:324:THR:HG21	4:5:244:ASP:N	1.80	0.59
1:A:776:GLU:O	1:A:779:ARG:HB3	2.03	0.59
1:D:642:LYS:CG	4:9:22:ALA:CA	2.80	0.59
1:D:836:PHE:HZ	2:E:160:GLY:H	1.50	0.59
3:F:52:ASN:HB2	3:F:53:PRO:CD	2.28	0.59
1:G:538:GLU:HA	4:V:349:LEU:CG	2.28	0.59
1:G:817:GLN:HB3	2:H:127:ARG:CD	2.31	0.59
1:J:553:MLY:HG3	4:Y:45:VAL:O	2.02	0.59
1:J:817:GLN:CD	2:K:127:ARG:HB2	2.21	0.59
1:P:84:MLY:CH2	1:P:723:ARG:HB3	2.30	0.59
1:P:542:PHE:CD1	4:0:143:TYR:CE1	2.91	0.59
1:P:578:HIS:CD2	1:P:591:ASN:HA	2.31	0.59
1:A:116:TYR:HB2	1:A:153:PRO:O	2.03	0.59
1:A:195:TYR:O	1:A:199:ILE:HG23	2.03	0.59
1:A:536:LEU:HD13	1:A:550:PHE:CE1	2.37	0.59
1:A:623:PHE:CG	1:A:623:PHE:HA	2.36	0.59
3:C:63:ILE:HG22	3:C:64:THR:O	2.01	0.59
1:D:797:PHE:CZ	3:F:126:LEU:HD22	2.23	0.59
1:G:795:ARG:NE	3:I:116:GLU:CG	2.60	0.59
3:I:52:ASN:N	3:I:53:PRO:CD	2.65	0.59
1:P:135:TYR:N	1:P:135:TYR:CD1	2.69	0.59
1:P:536:LEU:HD13	1:P:550:PHE:CE1	2.37	0.59
1:P:550:PHE:CE2	1:P:592:ILE:HG23	2.37	0.59
1:P:783:LEU:CG	1:P:786:ILE:HD12	2.19	0.59
1:P:837:MLY:O	1:P:840:PRO:HD2	2.01	0.59
4:5:287:ILE:H	4:5:287:ILE:HD12	1.67	0.59
1:A:135:TYR:N	1:A:135:TYR:CD1	2.70	0.59
1:D:549:SER:OG	1:D:550:PHE:N	2.36	0.59
1:D:813:ILE:HG21	2:E:128:PHE:HE1	1.66	0.59
1:D:834:LEU:CD2	2:E:54:MET:CE	2.76	0.59
1:G:536:LEU:HD13	1:G:550:PHE:CE1	2.37	0.59
1:G:735:GLY:O	1:G:743:ALA:HA	1.94	0.59
1:G:800:ARG:HH22	3:I:40:ASN:CG	2.06	0.59
1:J:542:PHE:CD1	4:W:143:TYR:CE1	2.91	0.59
1:J:549:SER:OG	1:J:550:PHE:N	2.36	0.59
1:P:84:MLY:CB	1:P:723:ARG:HE	2.14	0.59
1:P:725:ARG:HH22	3:R:93:VAL:HG12	1.63	0.59
1:P:819:ASN:HD21	2:Q:92:ASP:CA	2.15	0.59
1:A:501:GLU:O	1:A:762:HIS:CE1	2.55	0.59
1:D:156:PHE:CD1	1:D:195:TYR:CD1	2.90	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:599:ASN:CB	1:D:649:VAL:HB	2.32	0.59
1:D:724:TYR:CA	1:D:782:MLY:HD2	2.20	0.59
1:G:40:VAL:HG22	1:G:41:VAL:H	1.67	0.59
1:G:195:TYR:O	1:G:199:ILE:HG23	2.03	0.59
1:G:546:THR:HG22	1:G:547:ASP:N	2.17	0.59
1:J:49:MLY:HH13	1:J:108:GLU:OE2	2.02	0.59
1:J:156:PHE:CD1	1:J:195:TYR:CD1	2.90	0.59
1:J:166:MET:HE3	1:J:254:PHE:HD2	1.66	0.59
3:L:102:VAL:HG11	3:L:107:LEU:HB2	1.85	0.59
1:P:549:SER:OG	1:P:550:PHE:N	2.35	0.59
1:P:767:PHE:CZ	1:P:772:LEU:HD11	2.37	0.59
1:P:787:ILE:O	1:P:790:THR:N	2.35	0.59
3:R:52:ASN:N	3:R:53:PRO:CD	2.65	0.59
4:X:287:ILE:O	4:Z:205:GLU:OE1	2.21	0.59
2:B:130:PRO:HA	2:B:133:ILE:HD12	1.83	0.59
1:D:464:ILE:HG22	1:D:465:ALA:N	2.18	0.59
1:D:542:PHE:CD1	4:9:143:TYR:CE1	2.90	0.59
1:G:84:MLY:HG2	1:G:723:ARG:CG	2.29	0.59
1:G:550:PHE:CE2	1:G:592:ILE:HG23	2.37	0.59
1:G:646:PHE:CD2	1:G:652:LEU:CD1	2.85	0.59
1:J:230:GLU:O	1:J:234:ASN:HB2	2.03	0.59
1:J:776:GLU:O	1:J:779:ARG:HB3	2.02	0.59
1:P:116:TYR:HB2	1:P:153:PRO:O	2.03	0.59
4:2:287:ILE:H	4:2:287:ILE:HD12	1.67	0.59
4:X:291:LYS:HG3	4:Z:243:PRO:C	2.22	0.59
1:A:529:PRO:HG3	4:8:353:GLN:OE1	2.03	0.59
1:A:578:HIS:CD2	1:A:591:ASN:HA	2.31	0.59
1:A:752:ASP:OD2	1:A:782:MLY:HD3	2.01	0.59
1:A:797:PHE:HE1	3:C:146:ILE:CA	1.93	0.59
1:D:601:ASP:N	1:D:602:PRO:HD3	2.18	0.59
1:D:787:ILE:O	1:D:790:THR:N	2.35	0.59
2:E:144:VAL:HG12	2:E:153:ILE:HD11	1.75	0.59
1:G:789:ALA:CB	3:I:81:GLN:CD	2.71	0.59
4:3:324:THR:CG2	4:5:244:ASP:C	2.55	0.59
4:V:286:ASP:OD1	4:X:202:THR:HB	2.02	0.59
1:A:48:VAL:HG22	1:A:49:MLY:N	2.18	0.59
1:D:550:PHE:CE2	1:D:592:ILE:HG23	2.37	0.59
1:D:795:ARG:HH21	3:F:116:GLU:HG2	1.65	0.59
1:G:542:PHE:CD1	4:V:143:TYR:CE1	2.91	0.59
1:G:549:SER:OG	1:G:550:PHE:N	2.36	0.59
1:G:599:ASN:CB	1:G:649:VAL:HB	2.32	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:130:PRO:HA	2:H:133:ILE:HD12	1.84	0.59
3:I:52:ASN:HB2	3:I:53:PRO:CD	2.28	0.59
1:J:149:GLN:HB3	1:J:716:LEU:HD21	1.83	0.59
1:J:553:MLY:CH1	4:Y:45:VAL:HG11	2.32	0.59
1:J:784:ALA:O	1:J:788:THR:HB	2.02	0.59
1:J:836:PHE:CE2	2:K:160:GLY:CA	2.86	0.59
1:P:99:GLU:OE2	1:P:696:ARG:NH2	2.30	0.59
4:0:110:LEU:C	4:1:195:GLU:HG3	2.23	0.59
4:1:287:ILE:HB	4:3:203:THR:CA	2.33	0.59
4:3:223:PHE:HD2	4:3:312:ARG:NH2	1.99	0.59
1:A:230:GLU:O	1:A:234:ASN:HB2	2.03	0.59
1:A:265:ILE:HG22	1:A:266:GLU:N	2.18	0.59
1:A:502:GLU:OE1	1:A:763:THR:N	2.36	0.59
1:A:601:ASP:N	1:A:602:PRO:HD3	2.18	0.59
3:C:52:ASN:N	3:C:53:PRO:CD	2.65	0.59
1:D:40:VAL:HG22	1:D:41:VAL:H	1.67	0.59
1:D:124:VAL:HG13	1:D:675:ILE:CD1	2.33	0.59
1:D:220:ASP:O	1:D:224:SER:N	2.27	0.59
1:D:726:VAL:HG11	1:D:785:GLU:HB3	1.84	0.59
1:G:815:CYS:SG	2:H:92:ASP:OD1	2.61	0.59
1:J:7:MET:HE3	1:J:14:ALA:HB1	1.85	0.59
1:J:265:ILE:HG22	1:J:266:GLU:N	2.18	0.59
1:J:550:PHE:CE2	1:J:592:ILE:HG23	2.37	0.59
1:J:599:ASN:CB	1:J:649:VAL:HB	2.32	0.59
1:J:795:ARG:HH21	3:L:116:GLU:CD	2.06	0.59
1:P:538:GLU:O	1:P:541:MET:HB2	2.03	0.59
1:P:601:ASP:N	1:P:602:PRO:HD3	2.18	0.59
4:3:287:ILE:H	4:3:287:ILE:HD12	1.67	0.59
4:4:287:ILE:H	4:4:287:ILE:HD12	1.67	0.59
1:A:538:GLU:O	1:A:541:MET:HB2	2.03	0.59
1:A:599:ASN:CB	1:A:649:VAL:HB	2.32	0.59
1:A:823:PHE:CD1	2:B:160:GLY:CA	2.86	0.59
1:J:536:LEU:HD13	1:J:550:PHE:CE1	2.37	0.59
1:J:541:MET:SD	4:W:346:LEU:O	2.48	0.59
1:P:124:VAL:HG13	1:P:675:ILE:CD1	2.33	0.59
1:P:195:TYR:O	1:P:199:ILE:HG23	2.03	0.59
1:P:230:GLU:O	1:P:234:ASN:HB2	2.03	0.59
1:P:634:GLY:N	4:0:25:ASP:O	2.31	0.59
1:P:800:ARG:HB3	3:R:149:VAL:CG1	2.33	0.59
4:Y:287:ILE:H	4:Y:287:ILE:HD12	1.67	0.59
1:A:7:MET:HE3	1:A:14:ALA:HB1	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:798:LEU:HD12	3:C:126:LEU:HD21	1.79	0.58
1:D:135:TYR:N	1:D:135:TYR:CD1	2.70	0.58
1:D:141:LEU:O	1:D:144:ARG:HB3	2.03	0.58
3:F:52:ASN:N	3:F:53:PRO:CD	2.65	0.58
1:G:116:TYR:HB2	1:G:153:PRO:O	2.03	0.58
1:G:149:GLN:HB3	1:G:716:LEU:HD21	1.84	0.58
1:G:230:GLU:O	1:G:234:ASN:HB2	2.03	0.58
1:G:787:ILE:O	1:G:790:THR:N	2.35	0.58
1:J:116:TYR:HB2	1:J:153:PRO:O	2.03	0.58
1:J:195:TYR:O	1:J:199:ILE:HG23	2.03	0.58
1:J:601:ASP:N	1:J:602:PRO:HD3	2.18	0.58
1:J:643:GLY:HA2	4:W:24:ASP:OD1	2.03	0.58
1:J:819:ASN:OD1	2:K:91:ALA:C	2.40	0.58
1:P:156:PHE:CD1	1:P:195:TYR:CD1	2.90	0.58
1:P:529:PRO:HG3	4:0:353:GLN:OE1	2.03	0.58
1:P:599:ASN:CB	1:P:649:VAL:HB	2.32	0.58
4:2:223:PHE:HD2	4:2:312:ARG:NH2	1.99	0.58
4:Z:287:ILE:HD12	4:Z:287:ILE:H	1.67	0.58
1:A:93:MET:CE	1:A:715:VAL:CB	2.80	0.58
1:A:800:ARG:CD	3:C:149:VAL:C	2.70	0.58
1:D:48:VAL:HG22	1:D:49:MLY:N	2.18	0.58
1:D:218:LEU:N	1:D:221:GLN:HE21	2.01	0.58
1:D:546:THR:HG22	1:D:547:ASP:N	2.17	0.58
1:D:629:GLU:HB3	1:D:645:SER:N	2.18	0.58
1:D:747:LEU:HD13	1:D:782:MLY:HH21	1.79	0.58
1:D:792:ALA:CA	3:F:42:THR:HG22	2.26	0.58
1:D:838:ILE:HD11	2:E:54:MET:CE	2.23	0.58
1:G:95:THR:HG23	1:G:96:HIS:ND1	2.17	0.58
1:G:124:VAL:HG13	1:G:675:ILE:HD13	1.84	0.58
1:G:135:TYR:N	1:G:135:TYR:CD1	2.70	0.58
1:G:265:ILE:HG22	1:G:266:GLU:N	2.18	0.58
1:G:553:MLY:HH13	4:X:45:VAL:CG1	2.25	0.58
1:G:642:LYS:CG	4:V:22:ALA:CA	2.80	0.58
1:J:529:PRO:HG3	4:W:353:GLN:OE1	2.04	0.58
1:J:546:THR:HG22	1:J:547:ASP:N	2.17	0.58
1:J:567:LYS:NZ	4:Y:92:ASN:ND2	2.36	0.58
1:J:629:GLU:HB3	1:J:645:SER:N	2.18	0.58
1:J:755:HIS:HA	1:J:758:TYR:HE1	1.64	0.58
1:J:817:GLN:HG2	2:K:127:ARG:CD	2.19	0.58
1:P:48:VAL:HG22	1:P:49:MLY:N	2.18	0.58
1:P:84:MLY:CD	1:P:723:ARG:HD2	2.33	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:548:THR:HG23	4:2:49:GLN:CB	2.03	0.58
1:P:642:LYS:CG	4:0:22:ALA:CA	2.80	0.58
1:P:717:TYR:HD1	1:P:744:SER:HG	1.51	0.58
4:0:287:ILE:H	4:0:287:ILE:HD12	1.67	0.58
1:A:93:MET:C	1:A:713:SER:HB3	2.23	0.58
1:A:505:MLY:CD	1:A:762:HIS:CD2	2.86	0.58
3:C:52:ASN:HB2	3:C:53:PRO:CD	2.28	0.58
2:E:130:PRO:HA	2:E:133:ILE:HD12	1.84	0.58
3:F:102:VAL:HG11	3:F:107:LEU:HB2	1.84	0.58
1:G:715:VAL:HG11	1:G:720:PHE:HD1	1.68	0.58
1:G:776:GLU:O	1:G:779:ARG:HB3	2.03	0.58
1:J:40:VAL:HG22	1:J:41:VAL:H	1.67	0.58
1:J:48:VAL:HG22	1:J:49:MLY:N	2.18	0.58
1:J:826:VAL:HG21	2:K:88:LEU:HD23	1.84	0.58
1:P:643:GLY:HA2	4:0:24:ASP:OD1	2.04	0.58
1:A:124:VAL:HG13	1:A:675:ILE:HD13	1.84	0.58
3:C:46:ILE:O	3:C:50:LEU:CG	2.47	0.58
3:C:102:VAL:HG11	3:C:107:LEU:HB2	1.85	0.58
1:D:230:GLU:O	1:D:234:ASN:HB2	2.03	0.58
1:D:649:VAL:HA	1:D:649:VAL:HG22	1.80	0.58
1:D:715:VAL:HG11	1:D:720:PHE:HD1	1.68	0.58
1:D:725:ARG:C	1:D:782:MLY:CH2	2.71	0.58
1:J:646:PHE:CD2	1:J:652:LEU:CD1	2.85	0.58
1:J:789:ALA:HB1	3:L:81:GLN:CG	2.32	0.58
3:L:52:ASN:N	3:L:53:PRO:CD	2.65	0.58
1:P:792:ALA:HB3	3:R:81:GLN:HE21	1.68	0.58
1:P:795:ARG:C	3:R:35:ARG:CZ	2.71	0.58
1:P:829:TRP:HZ3	2:Q:84:PHE:CE1	2.04	0.58
1:A:538:GLU:CD	4:8:355:MET:HE1	2.23	0.58
1:A:549:SER:OG	1:A:550:PHE:N	2.36	0.58
1:D:529:PRO:HG3	4:9:353:GLN:OE1	2.03	0.58
1:D:643:GLY:HA2	4:9:24:ASP:OD1	2.04	0.58
1:D:727:LEU:HD21	1:D:782:MLY:HG2	1.85	0.58
3:F:46:ILE:O	3:F:50:LEU:CG	2.47	0.58
1:G:464:ILE:HG22	1:G:465:ALA:N	2.18	0.58
1:G:538:GLU:O	1:G:541:MET:HB2	2.04	0.58
1:G:629:GLU:HB3	1:G:645:SER:N	2.18	0.58
1:J:218:LEU:N	1:J:221:GLN:HE21	2.01	0.58
2:Q:144:VAL:CG1	2:Q:153:ILE:HD13	2.20	0.58
4:0:202:THR:HG23	4:Y:287:ILE:N	1.96	0.58
4:W:286:ASP:OD1	4:Y:203:THR:HG22	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:715:VAL:HG11	1:A:720:PHE:HD1	1.68	0.58
1:A:831:TRP:CG	2:B:51:PHE:HE1	2.21	0.58
1:D:538:GLU:O	1:D:541:MET:HB2	2.04	0.58
1:D:799:MET:SD	3:F:32:ASP:OD2	2.62	0.58
1:G:64:THR:HG22	1:G:65:GLU:N	2.19	0.58
1:G:510:TRP:CH2	1:G:768:MLY:HH11	2.39	0.58
1:G:601:ASP:N	1:G:602:PRO:HD3	2.18	0.58
1:P:64:THR:HG22	1:P:65:GLU:N	2.19	0.58
4:X:325:MET:CE	4:Z:244:ASP:OD2	2.51	0.58
1:A:646:PHE:CD2	1:A:652:LEU:CD1	2.85	0.58
1:D:279:LEU:HB3	1:D:280:PRO:HD2	1.86	0.58
1:G:254:PHE:CE2	1:G:459:ILE:HD12	2.39	0.58
1:J:124:VAL:HG13	1:J:675:ILE:CD1	2.33	0.58
1:J:135:TYR:N	1:J:135:TYR:CD1	2.69	0.58
1:J:175:ILE:HA	1:J:670:HIS:O	2.03	0.58
1:J:481:ASN:N	1:J:481:ASN:ND2	2.51	0.58
1:P:279:LEU:HB3	1:P:280:PRO:HD2	1.86	0.58
4:0:243:PRO:HB2	4:Y:291:LYS:HZ1	1.68	0.58
4:W:285:CYS:O	4:Y:202:THR:CG2	2.52	0.58
1:A:64:THR:HG22	1:A:65:GLU:N	2.19	0.58
1:A:642:LYS:CG	4:8:22:ALA:CA	2.81	0.58
1:D:127:ASN:ND2	1:D:128:PRO:HD2	2.16	0.58
1:D:175:ILE:HA	1:D:670:HIS:O	2.03	0.58
1:D:265:ILE:HG22	1:D:266:GLU:N	2.18	0.58
1:G:817:GLN:CG	2:H:127:ARG:CD	2.81	0.58
1:P:141:LEU:O	1:P:144:ARG:HB3	2.04	0.58
1:P:629:GLU:HB3	1:P:645:SER:N	2.18	0.58
1:P:776:GLU:O	1:P:779:ARG:HB3	2.02	0.58
4:1:287:ILE:H	4:1:287:ILE:HD12	1.67	0.58
4:3:322:PRO:CB	4:5:244:ASP:CG	2.54	0.58
1:A:124:VAL:HG13	1:A:675:ILE:CD1	2.33	0.58
1:A:409:GLY:HA3	4:8:333:PRO:CD	2.34	0.58
1:A:464:ILE:HG22	1:A:465:ALA:N	2.18	0.58
1:A:839:MLY:HH13	2:B:159:HIS:CD2	2.39	0.58
1:D:776:GLU:O	1:D:779:ARG:HB3	2.03	0.58
1:D:794:CYS:O	1:D:798:LEU:N	2.36	0.58
1:G:124:VAL:HG13	1:G:675:ILE:CD1	2.33	0.58
1:G:141:LEU:O	1:G:144:ARG:HB3	2.03	0.58
1:J:538:GLU:O	1:J:541:MET:HB2	2.03	0.58
1:J:649:VAL:HA	1:J:649:VAL:HG22	1.80	0.58
1:J:715:VAL:HG11	1:J:720:PHE:HD1	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:84:MLY:CD	1:P:723:ARG:HD3	2.34	0.58
1:P:175:ILE:HA	1:P:670:HIS:O	2.03	0.58
1:P:786:ILE:C	1:P:787:ILE:HG22	2.06	0.58
1:P:804:ARG:O	1:P:808:GLU:OE1	2.21	0.58
3:R:102:VAL:HG11	3:R:107:LEU:HB2	1.85	0.58
4:2:290:ARG:NE	4:4:202:THR:HG21	2.15	0.58
1:A:49:MLY:HH13	1:A:108:GLU:OE2	2.03	0.58
1:A:175:ILE:HA	1:A:670:HIS:O	2.04	0.58
1:A:220:ASP:O	1:A:224:SER:N	2.27	0.58
1:D:726:VAL:CG1	1:D:785:GLU:HB3	2.33	0.58
1:G:49:MLY:HH13	1:G:108:GLU:OE2	2.03	0.58
1:G:529:PRO:HG3	4:V:353:GLN:OE1	2.04	0.58
1:J:279:LEU:HB3	1:J:280:PRO:HD2	1.86	0.58
1:P:265:ILE:HG22	1:P:266:GLU:N	2.18	0.58
1:P:418:THR:HG22	1:P:419:VAL:H	1.69	0.58
1:P:464:ILE:HG22	1:P:465:ALA:N	2.18	0.58
1:P:646:PHE:CD2	1:P:652:LEU:CD1	2.85	0.58
1:P:715:VAL:HG11	1:P:720:PHE:HD1	1.68	0.58
4:1:44:MET:HA	4:Z:167:GLU:OE1	2.03	0.58
1:A:141:LEU:O	1:A:144:ARG:HB3	2.03	0.57
1:A:836:PHE:HD2	2:B:161:GLU:OE1	1.86	0.57
1:D:195:TYR:O	1:D:199:ILE:HG23	2.03	0.57
1:D:254:PHE:CE2	1:D:459:ILE:HD12	2.39	0.57
1:D:798:LEU:HD11	3:F:126:LEU:CD2	2.33	0.57
1:D:834:LEU:CD1	2:E:54:MET:HB2	2.31	0.57
1:G:48:VAL:HG22	1:G:49:MLY:N	2.18	0.57
1:G:279:LEU:HB3	1:G:280:PRO:HD2	1.86	0.57
1:G:752:ASP:O	1:G:780:ASP:CG	2.41	0.57
1:J:127:ASN:ND2	1:J:128:PRO:HD2	2.16	0.57
1:J:464:ILE:HG22	1:J:465:ALA:N	2.18	0.57
1:P:149:GLN:HG2	1:P:716:LEU:CG	2.25	0.57
1:P:218:LEU:N	1:P:221:GLN:HE21	2.01	0.57
1:P:796:GLY:CA	3:R:40:ASN:CB	2.80	0.57
1:P:813:ILE:O	1:P:816:ILE:N	2.37	0.57
1:P:817:GLN:CG	2:Q:127:ARG:CB	2.71	0.57
4:0:110:LEU:O	4:1:195:GLU:HG3	2.04	0.57
1:A:92:ALA:O	1:A:713:SER:CA	2.50	0.57
1:A:279:LEU:HB3	1:A:280:PRO:HD2	1.86	0.57
1:A:418:THR:HG22	1:A:419:VAL:H	1.69	0.57
1:A:502:GLU:HA	1:A:762:HIS:N	2.19	0.57
1:A:747:LEU:HD23	1:A:747:LEU:O	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:792:ALA:HB2	3:C:42:THR:HG23	1.74	0.57
1:D:22:LYS:O	1:D:26:GLU:N	2.29	0.57
1:D:322:VAL:HG11	1:D:325:ILE:HD11	1.86	0.57
1:D:676:ILE:HG23	1:D:676:ILE:O	2.03	0.57
1:D:712:PRO:HB2	1:D:771:LEU:CD2	2.33	0.57
2:E:112:ILE:C	2:E:147:ASN:O	2.42	0.57
1:G:506:GLU:OE2	1:G:760:PHE:CB	2.49	0.57
1:G:568:PRO:HG3	1:G:578:HIS:H	1.69	0.57
1:J:797:PHE:CE1	3:L:146:ILE:CA	2.86	0.57
4:1:244:ASP:HA	4:Z:324:THR:HG23	1.86	0.57
1:A:629:GLU:HB3	1:A:645:SER:N	2.18	0.57
1:D:64:THR:HG22	1:D:65:GLU:N	2.19	0.57
1:G:642:LYS:CD	4:V:340:TRP:CZ3	2.80	0.57
1:J:322:VAL:HG11	1:J:325:ILE:HD11	1.86	0.57
1:P:202:SER:CA	1:P:207:LYS:HE3	2.27	0.57
1:D:116:TYR:HB2	1:D:153:PRO:O	2.03	0.57
1:D:173:GLN:C	1:D:667:THR:HG23	2.25	0.57
1:D:541:MET:HG2	4:9:345:ILE:CG2	2.35	0.57
1:D:767:PHE:O	1:D:771:LEU:HD21	2.03	0.57
1:D:813:ILE:O	1:D:816:ILE:N	2.37	0.57
1:G:813:ILE:O	1:G:816:ILE:N	2.37	0.57
1:G:829:TRP:CE2	2:H:87:LYS:HE2	2.39	0.57
3:I:102:VAL:HG23	3:I:139:TYR:CD1	2.39	0.57
1:J:91:MET:HE3	1:J:119:SER:HB2	1.85	0.57
1:J:93:MET:SD	1:J:716:LEU:HB2	2.45	0.57
1:J:173:GLN:C	1:J:667:THR:HG23	2.25	0.57
1:J:784:ALA:O	1:J:788:THR:CB	2.52	0.57
1:P:322:VAL:HG11	1:P:325:ILE:HD11	1.86	0.57
1:P:747:LEU:O	1:P:747:LEU:HD23	2.05	0.57
3:R:102:VAL:HG23	3:R:139:TYR:CD1	2.39	0.57
4:2:324:THR:CG2	4:4:243:PRO:C	2.57	0.57
4:X:287:ILE:HG13	4:Z:201:VAL:CB	2.34	0.57
1:A:218:LEU:N	1:A:221:GLN:HE21	2.01	0.57
1:A:254:PHE:CE2	1:A:459:ILE:HD12	2.39	0.57
1:A:813:ILE:O	1:A:816:ILE:N	2.37	0.57
1:D:418:THR:HG22	1:D:419:VAL:H	1.69	0.57
1:G:175:ILE:HA	1:G:670:HIS:O	2.03	0.57
1:G:409:GLY:HA3	4:V:333:PRO:CD	2.35	0.57
1:G:599:ASN:CG	1:G:649:VAL:HB	2.25	0.57
1:J:82:PRO:HD2	1:J:85:TYR:CD2	2.40	0.57
1:J:676:ILE:HG23	1:J:676:ILE:O	2.03	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:836:PHE:CE1	2:K:160:GLY:N	2.70	0.57
1:P:649:VAL:HA	1:P:649:VAL:HG22	1.80	0.57
1:A:676:ILE:HG23	1:A:676:ILE:O	2.03	0.57
1:A:813:ILE:O	1:A:817:GLN:N	2.30	0.57
1:A:817:GLN:OE1	2:B:127:ARG:CZ	2.25	0.57
1:D:409:GLY:HA3	4:9:333:PRO:CD	2.35	0.57
1:D:831:TRP:CG	2:E:51:PHE:HZ	2.21	0.57
1:G:218:LEU:N	1:G:221:GLN:HE21	2.01	0.57
1:J:409:GLY:HA3	4:W:333:PRO:CD	2.35	0.57
1:J:561:LYS:HE3	4:Y:48:GLY:CA	2.29	0.57
1:J:756:THR:HG23	1:J:779:ARG:HD2	1.85	0.57
1:J:795:ARG:HH21	3:L:116:GLU:CG	2.17	0.57
1:P:821:ARG:NH2	2:Q:127:ARG:CD	2.66	0.57
1:A:173:GLN:C	1:A:667:THR:HG23	2.25	0.57
1:A:783:LEU:O	1:A:787:ILE:N	2.28	0.57
1:D:481:ASN:N	1:D:481:ASN:ND2	2.51	0.57
1:G:99:GLU:OE2	1:G:696:ARG:NH2	2.30	0.57
1:G:411:GLU:N	4:V:333:PRO:HB2	2.11	0.57
1:G:508:ILE:CD1	1:G:759:ALA:CB	2.68	0.57
1:G:754:ASP:O	1:G:776:GLU:OE2	2.23	0.57
1:J:64:THR:HG22	1:J:65:GLU:N	2.19	0.57
1:J:541:MET:HG2	4:W:345:ILE:CG2	2.35	0.57
1:J:747:LEU:O	1:J:747:LEU:HD23	2.05	0.57
1:P:254:PHE:CE2	1:P:459:ILE:HD12	2.39	0.57
1:A:541:MET:HG2	4:8:345:ILE:CG2	2.34	0.57
1:A:599:ASN:CG	1:A:649:VAL:HB	2.25	0.57
2:B:112:ILE:C	2:B:147:ASN:O	2.42	0.57
1:D:579:PHE:CD2	1:D:592:ILE:HD11	2.39	0.57
1:G:173:GLN:C	1:G:667:THR:HG23	2.25	0.57
1:G:796:GLY:HA2	3:I:35:ARG:CZ	2.35	0.57
2:H:112:ILE:C	2:H:147:ASN:O	2.42	0.57
1:J:254:PHE:CE2	1:J:459:ILE:HD12	2.39	0.57
1:P:173:GLN:C	1:P:667:THR:HG23	2.25	0.57
1:P:541:MET:HG2	4:0:345:ILE:CG2	2.35	0.57
1:P:676:ILE:O	1:P:676:ILE:HG23	2.03	0.57
1:P:677:PRO:HB2	1:P:678:ASN:ND2	2.20	0.57
1:A:109:ARG:O	1:A:114:MET:N	2.37	0.57
1:D:82:PRO:HD2	1:D:85:TYR:CD2	2.40	0.57
1:D:568:PRO:HG3	1:D:578:HIS:H	1.69	0.57
1:D:831:TRP:CZ2	2:E:47:LEU:CG	2.84	0.57
1:G:829:TRP:CH2	2:H:87:LYS:NZ	2.73	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:141:LEU:O	1:J:144:ARG:HB3	2.04	0.57
1:J:530:MET:CA	4:W:354:GLN:HB3	2.35	0.57
1:P:530:MET:HA	4:0:354:GLN:CD	2.11	0.57
4:W:223:PHE:HD2	4:W:312:ARG:NH2	1.99	0.57
1:A:322:VAL:HG11	1:A:325:ILE:HD11	1.86	0.57
1:A:643:GLY:HA2	4:8:24:ASP:OD1	2.04	0.57
1:G:82:PRO:HD2	1:G:85:TYR:CD2	2.40	0.57
1:G:97:LEU:HD22	1:G:712:PRO:CB	2.22	0.57
1:G:148:ARG:HH22	1:G:764:MLY:HH11	1.70	0.57
1:G:552:ASN:C	4:X:47:MET:HE1	2.26	0.57
1:G:676:ILE:HG23	1:G:676:ILE:O	2.03	0.57
1:J:677:PRO:HB2	1:J:678:ASN:ND2	2.20	0.57
1:J:783:LEU:O	1:J:787:ILE:CB	2.52	0.57
1:P:127:ASN:ND2	1:P:128:PRO:HD2	2.16	0.57
4:1:287:ILE:HG22	4:3:204:ALA:H	1.69	0.57
1:A:481:ASN:N	1:A:481:ASN:ND2	2.51	0.56
1:A:639:GLY:N	4:8:344:SER:C	2.54	0.56
1:A:836:PHE:CE2	2:B:160:GLY:N	2.68	0.56
3:C:102:VAL:HG23	3:C:139:TYR:CD1	2.39	0.56
1:D:22:LYS:HA	1:D:25:ILE:HB	1.87	0.56
1:D:530:MET:CA	4:9:354:GLN:HB3	2.35	0.56
1:D:530:MET:HE3	4:9:355:MET:SD	2.45	0.56
1:D:599:ASN:CG	1:D:649:VAL:HB	2.25	0.56
3:F:102:VAL:HG23	3:F:139:TYR:CD1	2.39	0.56
1:G:7:MET:HE3	1:G:14:ALA:HB1	1.86	0.56
1:G:817:GLN:CG	2:H:127:ARG:CB	2.80	0.56
1:J:95:THR:N	1:J:713:SER:HB3	2.19	0.56
1:J:579:PHE:CD2	1:J:592:ILE:HD11	2.40	0.56
1:J:710:GLY:N	1:J:772:LEU:HD22	2.15	0.56
1:P:568:PRO:HG3	1:P:578:HIS:H	1.69	0.56
1:P:638:GLY:CA	4:0:345:ILE:H	2.18	0.56
3:R:46:ILE:O	3:R:50:LEU:CG	2.47	0.56
4:X:285:CYS:O	4:Z:202:THR:CG2	2.48	0.56
1:A:82:PRO:HD2	1:A:85:TYR:CD2	2.40	0.56
1:A:411:GLU:N	4:8:333:PRO:HB2	2.11	0.56
1:A:502:GLU:O	1:A:761:GLY:CA	2.53	0.56
1:A:529:PRO:CG	4:8:353:GLN:OE1	2.53	0.56
1:A:568:PRO:HG3	1:A:578:HIS:H	1.69	0.56
1:A:707:CYS:SG	1:A:714:ARG:NH1	2.78	0.56
1:D:733:PRO:CB	1:D:737:PHE:HE1	2.19	0.56
1:D:795:ARG:HB3	3:F:35:ARG:HH22	1.66	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:338:ILE:HG21	1:G:348:MLY:HB3	1.87	0.56
1:G:831:TRP:CH2	2:H:47:LEU:HD22	2.18	0.56
1:P:707:CYS:SG	1:P:714:ARG:CZ	2.93	0.56
1:P:786:ILE:CA	1:P:788:THR:OG1	2.53	0.56
1:P:813:ILE:O	1:P:817:GLN:N	2.30	0.56
1:P:817:GLN:HG2	2:Q:127:ARG:CD	2.35	0.56
1:A:295:MLY:HG3	1:A:332:MET:HE2	1.86	0.56
1:A:302:MET:HG2	1:A:303:LEU:HD13	1.87	0.56
1:A:649:VAL:HA	1:A:649:VAL:HG23	1.83	0.56
1:A:755:HIS:HA	1:A:758:TYR:HE1	1.64	0.56
1:D:411:GLU:H	4:9:333:PRO:HG2	1.71	0.56
1:D:646:PHE:CD2	1:D:652:LEU:CD1	2.85	0.56
1:D:677:PRO:HB2	1:D:678:ASN:ND2	2.20	0.56
2:E:150:TYR:C	2:E:151:LYS:CG	2.48	0.56
1:G:541:MET:HG2	4:V:345:ILE:CG2	2.35	0.56
1:G:612:GLN:HE22	1:G:627:GLY:HA2	1.66	0.56
1:G:642:LYS:CA	4:V:22:ALA:C	2.70	0.56
1:G:643:GLY:N	4:V:23:GLY:C	2.55	0.56
1:G:677:PRO:HB2	1:G:678:ASN:ND2	2.20	0.56
1:G:733:PRO:CB	1:G:737:PHE:HE1	2.19	0.56
1:G:755:HIS:CB	1:G:779:ARG:NH2	2.65	0.56
3:I:102:VAL:HG11	3:I:107:LEU:HB2	1.85	0.56
1:J:418:THR:HG22	1:J:419:VAL:H	1.69	0.56
1:J:568:PRO:HG3	1:J:578:HIS:H	1.69	0.56
1:P:409:GLY:HA3	4:0:333:PRO:CD	2.34	0.56
1:P:799:MET:CB	3:R:35:ARG:CB	2.83	0.56
1:P:829:TRP:HH2	2:Q:84:PHE:CE1	2.21	0.56
4:0:243:PRO:HB2	4:Y:291:LYS:NZ	2.20	0.56
4:2:287:ILE:HB	4:4:204:ALA:N	2.21	0.56
1:A:135:TYR:N	1:A:135:TYR:HD1	2.04	0.56
1:A:411:GLU:H	4:8:333:PRO:HG2	1.71	0.56
1:A:677:PRO:HB2	1:A:678:ASN:ND2	2.20	0.56
1:A:725:ARG:HG3	1:A:733:PRO:CA	2.35	0.56
1:D:116:TYR:CE2	1:D:154:HIS:CD2	2.94	0.56
1:D:733:PRO:CA	1:D:737:PHE:HE1	2.19	0.56
1:D:747:LEU:HD23	1:D:747:LEU:O	2.05	0.56
1:D:798:LEU:HD13	3:F:126:LEU:CD1	2.21	0.56
1:D:831:TRP:NE1	2:E:47:LEU:HD22	2.21	0.56
1:G:322:VAL:HG11	1:G:325:ILE:HD11	1.86	0.56
1:G:792:ALA:CA	3:I:42:THR:HA	2.36	0.56
1:J:116:TYR:CE2	1:J:154:HIS:CD2	2.94	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:638:GLY:CA	4:W:345:ILE:H	2.18	0.56
1:J:794:CYS:O	1:J:798:LEU:N	2.37	0.56
1:J:813:ILE:O	1:J:816:ILE:N	2.37	0.56
1:P:635:GLY:HA3	4:0:334:GLU:CG	2.30	0.56
1:P:783:LEU:HA	1:P:786:ILE:CD1	2.34	0.56
1:P:818:TYR:CZ	2:Q:127:ARG:NH1	2.73	0.56
4:1:365:ALA:HB3	4:1:369:ILE:HB	1.88	0.56
4:3:365:ALA:HB3	4:3:369:ILE:HB	1.88	0.56
1:A:338:ILE:HG21	1:A:348:MLY:HB3	1.87	0.56
1:A:630:ALA:CA	4:8:25:ASP:OD2	2.53	0.56
1:D:135:TYR:N	1:D:135:TYR:HD1	2.04	0.56
1:G:84:MLY:NZ	1:G:724:TYR:CD2	2.61	0.56
1:G:302:MET:HG2	1:G:303:LEU:HD13	1.88	0.56
1:J:135:TYR:N	1:J:135:TYR:HD1	2.04	0.56
1:J:338:ILE:HG21	1:J:348:MLY:HB3	1.87	0.56
1:J:817:GLN:CB	2:K:127:ARG:HH11	2.18	0.56
1:P:116:TYR:CE2	1:P:154:HIS:CD2	2.94	0.56
1:P:338:ILE:HG21	1:P:348:MLY:HB3	1.87	0.56
1:P:733:PRO:CA	1:P:737:PHE:HE1	2.19	0.56
1:P:800:ARG:CD	3:R:149:VAL:C	2.73	0.56
4:Y:365:ALA:HB3	4:Y:369:ILE:HB	1.87	0.56
1:A:717:TYR:HD1	1:A:744:SER:HG	1.53	0.56
1:D:406:VAL:HG12	1:D:407:GLY:H	1.71	0.56
1:G:92:ALA:O	1:G:714:ARG:N	2.38	0.56
1:G:109:ARG:O	1:G:114:MET:N	2.37	0.56
1:G:418:THR:HG22	1:G:419:VAL:H	1.69	0.56
1:G:643:GLY:HA2	4:V:24:ASP:OD1	2.04	0.56
1:J:754:ASP:HB3	1:J:780:ASP:OD2	2.02	0.56
3:L:102:VAL:HG23	3:L:139:TYR:CD1	2.39	0.56
1:P:82:PRO:HD2	1:P:85:TYR:CD2	2.40	0.56
1:P:506:GLU:HG2	1:P:760:PHE:N	2.20	0.56
4:0:365:ALA:HB3	4:0:369:ILE:HB	1.88	0.56
1:A:206:LYS:HB3	1:A:217:THR:OG1	2.06	0.56
1:A:210:GLN:O	1:A:211:SER:OG	2.15	0.56
1:A:546:THR:HG21	1:A:548:THR:HB	1.88	0.56
1:A:795:ARG:CG	3:C:35:ARG:NH1	2.46	0.56
1:D:435:GLU:O	1:D:438:PHE:HB3	2.06	0.56
1:G:538:GLU:CG	4:V:351:THR:C	2.73	0.56
1:G:725:ARG:HG3	1:G:733:PRO:CA	2.36	0.56
1:J:599:ASN:CG	1:J:649:VAL:HB	2.25	0.56
1:J:630:ALA:CA	4:W:25:ASP:OD2	2.53	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:634:GLY:N	4:W:25:ASP:O	2.31	0.56
1:J:796:GLY:CA	3:L:35:ARG:CD	2.72	0.56
1:P:206:LYS:HB3	1:P:217:THR:OG1	2.06	0.56
1:P:530:MET:CA	4:0:354:GLN:HB3	2.35	0.56
1:P:579:PHE:CD2	1:P:592:ILE:HD11	2.40	0.56
1:P:640:LYS:C	1:P:645:SER:OG	2.44	0.56
4:0:173:HIS:CD2	4:1:268:GLY:CA	2.88	0.56
1:A:116:TYR:CE2	1:A:154:HIS:CD2	2.94	0.56
1:A:640:LYS:C	4:8:23:GLY:CA	2.64	0.56
1:A:733:PRO:CA	1:A:737:PHE:HE1	2.19	0.56
1:D:732:ILE:CG2	1:D:747:LEU:HD11	1.26	0.56
1:G:410:ASN:CG	4:V:334:GLU:C	2.64	0.56
1:G:529:PRO:CG	4:V:353:GLN:OE1	2.54	0.56
1:G:557:GLU:HB2	4:X:47:MET:O	2.04	0.56
1:G:747:LEU:HD23	1:G:747:LEU:O	2.05	0.56
1:G:783:LEU:HA	1:G:786:ILE:HB	1.87	0.56
3:I:49:ILE:CA	3:I:52:ASN:ND2	2.53	0.56
1:J:95:THR:CA	1:J:713:SER:HB3	2.36	0.56
1:J:756:THR:C	1:J:776:GLU:CD	2.64	0.56
1:P:84:MLY:CD	1:P:724:TYR:HH	2.18	0.56
1:P:406:VAL:HG12	1:P:407:GLY:H	1.71	0.56
1:P:541:MET:SD	4:0:346:LEU:O	2.48	0.56
1:P:629:GLU:O	1:P:643:GLY:HA3	2.06	0.56
1:P:794:CYS:O	1:P:798:LEU:N	2.36	0.56
1:P:795:ARG:NH1	3:R:45:GLU:H	2.03	0.56
2:Q:140:PHE:O	2:Q:141:PRO:C	2.33	0.56
1:A:22:LYS:O	1:A:26:GLU:HG3	2.06	0.56
1:A:640:LYS:C	1:A:645:SER:OG	2.44	0.56
1:D:215:GLN:CA	1:D:340:ILE:CG2	2.63	0.56
1:D:630:ALA:CA	4:9:25:ASP:OD2	2.53	0.56
1:G:7:MET:HE3	1:G:14:ALA:CB	2.36	0.56
1:G:28:GLN:CA	1:G:723:ARG:HH22	2.19	0.56
1:G:135:TYR:N	1:G:135:TYR:HD1	2.04	0.56
1:G:206:LYS:HB3	1:G:217:THR:OG1	2.06	0.56
1:J:629:GLU:O	1:J:643:GLY:HA3	2.06	0.56
2:K:144:VAL:HG12	2:K:153:ILE:HD11	1.75	0.56
1:P:22:LYS:HA	1:P:25:ILE:HB	1.87	0.56
1:P:599:ASN:CG	1:P:649:VAL:HB	2.25	0.56
4:V:291:LYS:HD2	4:X:243:PRO:HB2	1.87	0.56
4:X:365:ALA:HB3	4:X:369:ILE:HB	1.88	0.56
1:A:217:THR:HG22	1:A:218:LEU:O	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:290:GLN:HG2	1:A:331:LEU:HA	1.87	0.56
1:A:530:MET:CA	4:8:354:GLN:HB3	2.35	0.56
1:A:546:THR:HB	1:A:549:SER:H	1.71	0.56
1:A:733:PRO:CB	1:A:737:PHE:HE1	2.19	0.56
1:D:32:PHE:CG	1:D:83:PRO:HD3	2.41	0.56
1:D:529:PRO:CG	4:9:353:GLN:OE1	2.53	0.56
1:D:732:ILE:HG22	1:D:747:LEU:CD1	1.55	0.56
1:G:28:GLN:HB3	1:G:723:ARG:NH2	2.20	0.56
1:G:295:MLY:HG3	1:G:332:MET:HE1	1.88	0.56
1:G:537:GLU:HB3	1:G:648:THR:CB	2.36	0.56
1:J:530:MET:CB	4:W:354:GLN:HG3	2.36	0.56
1:J:769:ALA:HB3	1:J:770:GLY:HA2	1.85	0.56
1:P:32:PHE:CG	1:P:83:PRO:HD3	2.41	0.56
1:P:530:MET:CB	4:0:354:GLN:HG3	2.37	0.56
1:P:630:ALA:CA	4:0:25:ASP:OD2	2.53	0.56
1:P:795:ARG:CG	3:R:116:GLU:OE2	2.54	0.56
4:1:324:THR:OG1	4:3:244:ASP:CB	2.53	0.56
4:4:365:ALA:HB3	4:4:369:ILE:HB	1.88	0.56
4:7:365:ALA:HB3	4:7:369:ILE:HB	1.88	0.56
4:W:365:ALA:HB3	4:W:369:ILE:HB	1.88	0.56
1:A:649:VAL:HG22	1:A:649:VAL:HA	1.80	0.55
1:A:836:PHE:CZ	2:B:159:HIS:CA	2.88	0.55
1:G:22:LYS:O	1:G:26:GLU:HG3	2.06	0.55
1:G:116:TYR:CE2	1:G:154:HIS:CD2	2.94	0.55
1:G:435:GLU:O	1:G:438:PHE:HB3	2.06	0.55
1:G:530:MET:CA	4:V:354:GLN:HB3	2.35	0.55
1:G:649:VAL:CG1	1:G:649:VAL:HA	2.35	0.55
1:J:206:LYS:HB3	1:J:217:THR:OG1	2.06	0.55
1:P:800:ARG:HD2	3:R:149:VAL:HG13	1.87	0.55
4:1:287:ILE:HG21	4:3:203:THR:N	2.19	0.55
1:A:7:MET:HE3	1:A:14:ALA:CB	2.36	0.55
1:A:32:PHE:CG	1:A:83:PRO:HD3	2.42	0.55
1:A:529:PRO:CB	4:8:354:GLN:HA	2.36	0.55
1:A:735:GLY:O	1:A:743:ALA:HA	1.94	0.55
1:A:813:ILE:HG21	2:B:127:ARG:CD	2.21	0.55
1:D:99:GLU:OE2	1:D:696:ARG:NH2	2.30	0.55
1:D:529:PRO:CB	4:9:354:GLN:HA	2.36	0.55
1:D:537:GLU:HB3	1:D:648:THR:CB	2.36	0.55
1:D:546:THR:HG21	1:D:548:THR:HB	1.88	0.55
1:D:629:GLU:O	1:D:643:GLY:HA3	2.06	0.55
1:D:640:LYS:C	1:D:645:SER:OG	2.45	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:724:TYR:CD1	1:D:782:MLY:CD	2.89	0.55
1:G:217:THR:HG22	1:G:218:LEU:O	2.06	0.55
1:G:411:GLU:H	4:V:333:PRO:HG2	1.70	0.55
1:G:530:MET:HE3	4:V:354:GLN:CB	2.36	0.55
1:J:635:GLY:HA3	4:W:334:GLU:CG	2.30	0.55
1:J:643:GLY:N	4:W:23:GLY:C	2.55	0.55
1:P:435:GLU:O	1:P:438:PHE:HB3	2.06	0.55
1:P:481:ASN:N	1:P:481:ASN:ND2	2.51	0.55
1:P:529:PRO:CG	4:0:353:GLN:OE1	2.54	0.55
1:P:538:GLU:CD	4:0:355:MET:HE3	2.25	0.55
4:1:287:ILE:HB	4:3:203:THR:CB	2.35	0.55
4:9:365:ALA:HB3	4:9:369:ILE:HB	1.88	0.55
4:V:288:ASP:N	4:X:204:ALA:H	2.03	0.55
4:X:287:ILE:HG13	4:Z:201:VAL:CG2	2.33	0.55
1:A:538:GLU:CG	4:8:351:THR:C	2.74	0.55
1:A:604:ASN:OD1	1:A:607:VAL:HG23	2.06	0.55
1:A:629:GLU:O	1:A:643:GLY:HA3	2.06	0.55
1:D:290:GLN:HG2	1:D:331:LEU:HA	1.87	0.55
2:E:156:VAL:HA	2:E:159:HIS:O	2.07	0.55
1:G:629:GLU:O	1:G:643:GLY:HA3	2.06	0.55
1:G:733:PRO:CA	1:G:737:PHE:HE1	2.19	0.55
3:I:35:ARG:HA	3:I:39:GLN:O	2.07	0.55
1:J:646:PHE:CE2	1:J:652:LEU:CG	2.90	0.55
1:P:135:TYR:N	1:P:135:TYR:HD1	2.04	0.55
1:P:217:THR:HG22	1:P:218:LEU:O	2.05	0.55
1:P:290:GLN:NE2	1:P:334:THR:OG1	2.40	0.55
1:P:549:SER:HA	4:2:49:GLN:HG3	1.89	0.55
1:P:579:PHE:HE1	1:P:581:LEU:HD13	1.72	0.55
1:P:733:PRO:CB	1:P:737:PHE:HE1	2.19	0.55
4:2:365:ALA:HB3	4:2:369:ILE:HB	1.88	0.55
4:Z:365:ALA:HB3	4:Z:369:ILE:HB	1.88	0.55
1:A:345:ALA:O	1:A:349:THR:N	2.40	0.55
1:A:799:MET:SD	3:C:32:ASP:O	2.64	0.55
2:B:140:PHE:O	2:B:141:PRO:C	2.33	0.55
1:D:217:THR:HG22	1:D:218:LEU:O	2.06	0.55
1:D:638:GLY:CA	4:9:345:ILE:H	2.19	0.55
1:G:604:ASN:OD1	1:G:607:VAL:HG23	2.06	0.55
1:J:22:LYS:HA	1:J:25:ILE:HB	1.87	0.55
1:J:93:MET:CG	1:J:715:VAL:HA	2.36	0.55
1:J:529:PRO:CB	4:W:354:GLN:HA	2.36	0.55
1:P:411:GLU:H	4:0:333:PRO:HG2	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:646:PHE:CE2	1:P:652:LEU:CG	2.90	0.55
1:P:797:PHE:CE1	3:R:146:ILE:HG21	2.23	0.55
2:Q:156:VAL:HA	2:Q:159:HIS:O	2.07	0.55
3:R:123:VAL:O	3:R:127:MET:HG2	2.07	0.55
4:3:287:ILE:HG21	4:5:204:ALA:H	1.67	0.55
1:A:290:GLN:NE2	1:A:334:THR:OG1	2.40	0.55
1:A:642:LYS:CA	4:8:22:ALA:C	2.71	0.55
2:B:156:VAL:HA	2:B:159:HIS:O	2.07	0.55
1:D:604:ASN:OD1	1:D:607:VAL:HG23	2.06	0.55
1:D:646:PHE:CE2	1:D:652:LEU:CG	2.90	0.55
1:G:22:LYS:HA	1:G:25:ILE:HB	1.87	0.55
1:G:638:GLY:CA	4:V:345:ILE:H	2.18	0.55
1:G:765:VAL:HG12	1:G:766:PHE:N	2.22	0.55
1:G:801:VAL:HG23	3:I:126:LEU:HD21	1.85	0.55
1:J:7:MET:HE3	1:J:14:ALA:CB	2.36	0.55
1:J:217:THR:HG22	1:J:218:LEU:O	2.05	0.55
1:J:406:VAL:HG12	1:J:407:GLY:H	1.71	0.55
1:J:579:PHE:HE1	1:J:581:LEU:HD13	1.72	0.55
1:J:640:LYS:C	1:J:645:SER:OG	2.44	0.55
1:J:795:ARG:HE	3:L:116:GLU:CD	2.06	0.55
1:P:7:MET:HE3	1:P:14:ALA:CB	2.36	0.55
1:A:530:MET:CB	4:8:354:GLN:HG3	2.36	0.55
1:A:813:ILE:HD13	2:B:128:PHE:HE1	1.72	0.55
1:D:7:MET:HE3	1:D:14:ALA:CB	2.36	0.55
1:D:338:ILE:HG21	1:D:348:MLY:HB3	1.87	0.55
1:D:769:ALA:C	1:D:774:LEU:CD1	2.66	0.55
1:D:800:ARG:CB	3:F:149:VAL:HG22	2.36	0.55
1:G:649:VAL:HA	1:G:649:VAL:HG22	1.80	0.55
3:I:123:VAL:O	3:I:127:MET:HG2	2.07	0.55
1:J:32:PHE:CG	1:J:83:PRO:HD3	2.41	0.55
1:J:302:MET:HG2	1:J:303:LEU:HD13	1.87	0.55
1:J:345:ALA:O	1:J:349:THR:N	2.40	0.55
1:J:410:ASN:CG	4:W:334:GLU:C	2.65	0.55
1:J:529:PRO:CG	4:W:353:GLN:OE1	2.54	0.55
1:J:567:LYS:HZ2	4:Y:92:ASN:HA	1.69	0.55
1:J:725:ARG:HG3	1:J:733:PRO:CA	2.36	0.55
1:J:733:PRO:CA	1:J:737:PHE:HE1	2.19	0.55
2:K:156:VAL:HA	2:K:159:HIS:O	2.07	0.55
1:P:546:THR:HG21	1:P:548:THR:HB	1.88	0.55
1:P:839:MLY:HH21	2:Q:158:THR:HG22	1.89	0.55
1:A:406:VAL:HG12	1:A:407:GLY:H	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:537:GLU:HB3	1:A:648:THR:CB	2.36	0.55
1:D:635:GLY:HA3	4:9:334:GLU:CG	2.30	0.55
3:F:35:ARG:HA	3:F:39:GLN:O	2.07	0.55
1:G:546:THR:HB	1:G:549:SER:H	1.71	0.55
1:G:640:LYS:C	1:G:645:SER:OG	2.44	0.55
1:G:649:VAL:HA	1:G:649:VAL:HG23	1.83	0.55
1:G:723:ARG:CG	1:G:723:ARG:HH11	2.20	0.55
1:G:796:GLY:CA	3:I:35:ARG:CZ	2.84	0.55
1:J:290:GLN:HG2	1:J:331:LEU:HA	1.87	0.55
1:J:435:GLU:O	1:J:438:PHE:HB3	2.06	0.55
1:J:530:MET:HE3	4:W:355:MET:SD	2.46	0.55
1:P:84:MLY:CE	1:P:723:ARG:HD2	2.37	0.55
1:P:505:MLY:CD	1:P:762:HIS:CD2	2.59	0.55
4:5:365:ALA:HB3	4:5:369:ILE:HB	1.88	0.55
1:A:765:VAL:HG12	1:A:766:PHE:N	2.22	0.55
1:D:800:ARG:CD	3:F:149:VAL:C	2.75	0.55
3:F:123:VAL:O	3:F:127:MET:HG2	2.07	0.55
1:G:93:MET:CA	1:G:714:ARG:H	1.96	0.55
1:G:290:GLN:NE2	1:G:334:THR:OG1	2.40	0.55
1:G:579:PHE:HE1	1:G:581:LEU:HD13	1.72	0.55
1:G:646:PHE:CE2	1:G:652:LEU:CG	2.90	0.55
3:R:35:ARG:HA	3:R:39:GLN:O	2.07	0.55
1:A:435:GLU:O	1:A:438:PHE:HB3	2.06	0.55
3:C:35:ARG:HA	3:C:39:GLN:O	2.07	0.55
3:C:123:VAL:O	3:C:127:MET:HG2	2.06	0.55
1:D:206:LYS:HB3	1:D:217:THR:OG1	2.06	0.55
1:D:302:MET:HG2	1:D:303:LEU:HD13	1.87	0.55
1:D:638:GLY:HA2	4:9:345:ILE:H	1.72	0.55
1:D:649:VAL:HA	1:D:649:VAL:HG23	1.82	0.55
1:D:783:LEU:O	1:D:787:ILE:N	2.28	0.55
1:G:220:ASP:O	1:G:224:SER:N	2.27	0.55
1:G:798:LEU:HD22	3:I:118:MET:HG3	1.88	0.55
2:H:156:VAL:HA	2:H:159:HIS:O	2.07	0.55
1:J:82:PRO:HD2	1:J:85:TYR:HD2	1.72	0.55
1:J:292:MET:HE1	1:J:309:PRO:CD	2.37	0.55
1:J:411:GLU:H	4:W:333:PRO:HG2	1.71	0.55
1:J:733:PRO:CB	1:J:737:PHE:HE1	2.19	0.55
1:P:22:LYS:O	1:P:26:GLU:HG3	2.07	0.55
1:P:82:PRO:HD2	1:P:85:TYR:HD2	1.72	0.55
1:P:135:TYR:HD2	1:P:191:ARG:HG2	1.72	0.55
1:P:604:ASN:OD1	1:P:607:VAL:HG23	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:292:MET:HE1	1:A:309:PRO:CD	2.37	0.55
1:A:630:ALA:HA	4:8:25:ASP:OD2	2.07	0.55
1:A:643:GLY:N	4:8:23:GLY:C	2.55	0.55
1:A:646:PHE:CE2	1:A:652:LEU:CG	2.90	0.55
1:A:732:ILE:CG2	1:A:747:LEU:HD11	1.26	0.55
1:D:135:TYR:HD2	1:D:191:ARG:HG2	1.72	0.55
1:D:305:ILE:HG22	1:D:312:TYR:CE2	2.42	0.55
1:G:290:GLN:HG2	1:G:331:LEU:HA	1.87	0.55
1:G:638:GLY:HA2	4:V:345:ILE:H	1.71	0.55
1:J:290:GLN:NE2	1:J:334:THR:OG1	2.40	0.55
1:P:290:GLN:HG2	1:P:331:LEU:HA	1.87	0.55
1:P:546:THR:HB	1:P:549:SER:H	1.71	0.55
4:1:287:ILE:CA	4:3:202:THR:HB	2.35	0.55
4:2:148:THR:HG21	4:4:45:VAL:HG21	1.89	0.55
4:W:286:ASP:OD2	4:Y:203:THR:CG2	2.47	0.55
1:A:10:PHE:O	1:A:12:GLU:N	2.41	0.54
1:A:22:LYS:HA	1:A:25:ILE:HB	1.87	0.54
1:D:530:MET:CB	4:9:354:GLN:HG3	2.36	0.54
1:G:546:THR:HG21	1:G:548:THR:HB	1.88	0.54
1:G:798:LEU:CD2	3:I:118:MET:CB	2.84	0.54
1:P:548:THR:CB	4:2:49:GLN:N	2.64	0.54
4:V:291:LYS:HD2	4:X:243:PRO:CB	2.38	0.54
1:A:78:PHE:HB3	1:A:98:HIS:NE2	2.22	0.54
1:A:612:GLN:HE22	1:A:627:GLY:HA2	1.66	0.54
1:A:638:GLY:CA	4:8:345:ILE:H	2.19	0.54
3:C:49:ILE:CA	3:C:52:ASN:ND2	2.53	0.54
1:D:470:PHE:O	1:D:473:ASN:ND2	2.40	0.54
1:D:649:VAL:CG1	1:D:649:VAL:HA	2.35	0.54
1:D:823:PHE:CD1	2:E:160:GLY:CA	2.90	0.54
1:D:831:TRP:CG	2:E:51:PHE:CZ	2.95	0.54
1:G:126:VAL:HG13	1:G:675:ILE:HG22	1.89	0.54
1:G:732:ILE:CG2	1:G:747:LEU:HD11	1.26	0.54
2:H:117:LEU:CG	2:H:147:ASN:OD1	2.52	0.54
1:J:791:GLN:HB3	3:L:116:GLU:CD	2.28	0.54
1:J:839:MLY:HH21	2:K:158:THR:CG2	2.37	0.54
3:L:52:ASN:HB2	3:L:53:PRO:CD	2.28	0.54
1:P:302:MET:HG2	1:P:303:LEU:HD13	1.87	0.54
1:P:305:ILE:HG22	1:P:312:TYR:CZ	2.42	0.54
1:P:529:PRO:CB	4:0:354:GLN:HA	2.36	0.54
1:P:538:GLU:CG	4:0:351:THR:C	2.73	0.54
1:P:643:GLY:N	4:0:23:GLY:C	2.55	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:765:VAL:HG12	1:P:766:PHE:N	2.22	0.54
4:1:244:ASP:HB3	4:Z:322:PRO:HB2	1.89	0.54
4:V:365:ALA:HB3	4:V:369:ILE:HB	1.88	0.54
1:A:82:PRO:HD2	1:A:85:TYR:HD2	1.72	0.54
1:A:305:ILE:HG22	1:A:312:TYR:CE2	2.43	0.54
1:A:638:GLY:HA2	4:8:345:ILE:H	1.72	0.54
1:A:649:VAL:CG1	1:A:649:VAL:HA	2.35	0.54
1:A:757:GLN:O	1:A:771:LEU:HD22	2.07	0.54
1:D:723:ARG:CG	1:D:723:ARG:HH11	2.20	0.54
1:G:32:PHE:CG	1:G:83:PRO:HD3	2.41	0.54
1:G:78:PHE:HB3	1:G:98:HIS:NE2	2.23	0.54
1:G:82:PRO:HD2	1:G:85:TYR:HD2	1.72	0.54
1:G:530:MET:CB	4:V:354:GLN:HG3	2.37	0.54
1:J:561:LYS:CE	4:Y:48:GLY:CA	2.82	0.54
1:P:305:ILE:HG22	1:P:312:TYR:CE2	2.43	0.54
1:A:126:VAL:HG13	1:A:675:ILE:HG22	1.90	0.54
1:D:10:PHE:O	1:D:12:GLU:N	2.41	0.54
1:D:292:MET:HE1	1:D:309:PRO:CD	2.37	0.54
1:D:546:THR:HB	1:D:549:SER:H	1.71	0.54
1:D:571:ALA:O	1:D:572:LYS:CB	2.56	0.54
1:D:727:LEU:H	1:D:782:MLY:CH2	2.20	0.54
1:G:305:ILE:HG22	1:G:312:TYR:CE2	2.42	0.54
1:G:305:ILE:HG22	1:G:312:TYR:CZ	2.42	0.54
1:G:530:MET:CE	4:V:354:GLN:HG3	2.34	0.54
1:G:721:LYS:C	1:G:736:GLN:OE1	2.46	0.54
1:G:830:PRO:CG	2:H:67:MET:CE	2.85	0.54
1:G:838:ILE:CG1	2:H:54:MET:HE1	2.37	0.54
2:H:140:PHE:O	2:H:141:PRO:C	2.33	0.54
1:J:470:PHE:O	1:J:473:ASN:ND2	2.40	0.54
1:J:546:THR:HG21	1:J:548:THR:HB	1.88	0.54
1:J:604:ASN:OD1	1:J:607:VAL:HG23	2.06	0.54
1:J:638:GLY:HA2	4:W:345:ILE:H	1.72	0.54
3:L:123:VAL:O	3:L:127:MET:HG2	2.07	0.54
1:P:93:MET:HA	1:P:714:ARG:N	2.22	0.54
1:P:220:ASP:O	1:P:224:SER:N	2.27	0.54
1:P:292:MET:HE1	1:P:309:PRO:CD	2.37	0.54
1:P:470:PHE:O	1:P:473:ASN:ND2	2.40	0.54
1:P:629:GLU:CB	1:P:643:GLY:C	2.76	0.54
1:P:725:ARG:HG3	1:P:733:PRO:CA	2.36	0.54
4:8:365:ALA:HB3	4:8:369:ILE:HB	1.88	0.54
1:A:579:PHE:HE1	1:A:581:LEU:HD13	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:629:GLU:CB	1:A:643:GLY:C	2.75	0.54
2:B:114:LYS:N	2:B:146:GLY:O	2.40	0.54
1:D:22:LYS:O	1:D:26:GLU:HG3	2.07	0.54
1:D:290:GLN:NE2	1:D:334:THR:OG1	2.40	0.54
1:D:724:TYR:HD1	1:D:782:MLY:CD	2.21	0.54
1:D:765:VAL:HG12	1:D:766:PHE:N	2.22	0.54
1:G:38:VAL:CB	1:G:52:ILE:HD11	2.38	0.54
1:G:345:ALA:O	1:G:349:THR:N	2.40	0.54
1:G:529:PRO:CB	4:V:354:GLN:HA	2.37	0.54
1:G:838:ILE:CG1	2:H:54:MET:CE	2.85	0.54
1:J:10:PHE:O	1:J:12:GLU:N	2.40	0.54
1:J:126:VAL:HG13	1:J:675:ILE:HG22	1.90	0.54
1:J:537:GLU:HB3	1:J:648:THR:CB	2.36	0.54
1:J:649:VAL:CG1	1:J:649:VAL:HA	2.35	0.54
1:J:721:LYS:C	1:J:736:GLN:OE1	2.46	0.54
1:J:765:VAL:HG12	1:J:766:PHE:N	2.22	0.54
1:P:38:VAL:CB	1:P:52:ILE:HD11	2.38	0.54
1:P:537:GLU:HB3	1:P:648:THR:CB	2.36	0.54
1:P:721:LYS:C	1:P:736:GLN:OE1	2.46	0.54
1:P:786:ILE:O	1:P:788:THR:CA	2.50	0.54
1:P:797:PHE:CE2	3:R:126:LEU:CD1	2.78	0.54
2:Q:112:ILE:C	2:Q:147:ASN:O	2.42	0.54
2:Q:144:VAL:HG12	2:Q:153:ILE:HD11	1.75	0.54
4:3:324:THR:H	4:5:244:ASP:HA	1.72	0.54
1:A:571:ALA:O	1:A:572:LYS:CB	2.56	0.54
1:A:794:CYS:O	1:A:798:LEU:N	2.37	0.54
1:D:82:PRO:HD2	1:D:85:TYR:HD2	1.72	0.54
1:D:126:VAL:HG13	1:D:675:ILE:HG22	1.90	0.54
1:D:345:ALA:O	1:D:349:THR:N	2.39	0.54
1:G:10:PHE:O	1:G:12:GLU:N	2.41	0.54
1:G:789:ALA:HB1	3:I:81:GLN:NE2	2.22	0.54
1:J:22:LYS:O	1:J:26:GLU:HG3	2.07	0.54
1:J:78:PHE:HB3	1:J:98:HIS:NE2	2.22	0.54
1:J:305:ILE:HG22	1:J:312:TYR:CE2	2.43	0.54
1:J:546:THR:HB	1:J:549:SER:H	1.71	0.54
1:J:817:GLN:CB	2:K:127:ARG:HD3	2.14	0.54
2:K:146:GLY:O	2:K:147:ASN:ND2	2.41	0.54
1:P:10:PHE:O	1:P:12:GLU:N	2.40	0.54
1:P:78:PHE:HB3	1:P:98:HIS:NE2	2.22	0.54
1:P:109:ARG:O	1:P:114:MET:N	2.37	0.54
1:P:345:ALA:O	1:P:349:THR:N	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:493:HIS:ND1	1:P:514:ASP:OD2	2.41	0.54
1:P:786:ILE:N	1:P:788:THR:OG1	2.41	0.54
1:A:135:TYR:HD2	1:A:191:ARG:HG2	1.72	0.54
1:A:410:ASN:CG	4:8:334:GLU:C	2.65	0.54
1:A:642:LYS:HG2	4:8:22:ALA:C	2.28	0.54
1:A:721:LYS:C	1:A:736:GLN:OE1	2.46	0.54
1:D:553:MLY:HG3	4:W:44:MET:O	2.07	0.54
1:D:640:LYS:C	4:9:23:GLY:CA	2.64	0.54
1:D:721:LYS:C	1:D:736:GLN:OE1	2.46	0.54
1:D:739:ASP:CB	1:D:742:LYS:CB	2.81	0.54
1:D:791:GLN:O	1:D:794:CYS:HB2	2.08	0.54
2:H:146:GLY:O	2:H:147:ASN:ND2	2.41	0.54
1:J:135:TYR:HD2	1:J:191:ARG:HG2	1.72	0.54
1:J:305:ILE:HG22	1:J:312:TYR:CZ	2.42	0.54
1:J:561:LYS:HE2	4:Y:48:GLY:HA3	1.88	0.54
1:J:791:GLN:NE2	3:L:116:GLU:H	2.05	0.54
1:P:791:GLN:O	1:P:794:CYS:HB2	2.08	0.54
4:0:202:THR:HG23	4:Y:287:ILE:H	1.72	0.54
4:0:202:THR:CB	4:Y:287:ILE:N	2.69	0.54
4:8:288:ASP:CA	4:V:204:ALA:HB2	2.31	0.54
1:A:538:GLU:HG3	4:8:352:PHE:CA	2.38	0.54
1:A:797:PHE:CE1	3:C:146:ILE:HG23	2.42	0.54
1:D:38:VAL:CB	1:D:52:ILE:HD11	2.38	0.54
1:D:78:PHE:HB3	1:D:98:HIS:NE2	2.22	0.54
1:D:629:GLU:CB	1:D:643:GLY:C	2.75	0.54
1:G:135:TYR:HD2	1:G:191:ARG:HG2	1.72	0.54
3:L:35:ARG:HA	3:L:39:GLN:O	2.06	0.54
1:P:410:ASN:CG	4:0:334:GLU:C	2.65	0.54
1:P:733:PRO:CG	3:R:93:VAL:HG21	2.36	0.54
1:A:149:GLN:OE1	1:A:716:LEU:CG	2.54	0.54
1:A:305:ILE:HG22	1:A:312:TYR:CZ	2.43	0.54
1:D:218:LEU:CD2	1:D:222:ILE:CG1	2.86	0.54
1:D:305:ILE:HG22	1:D:312:TYR:CZ	2.42	0.54
1:G:292:MET:HE1	1:G:309:PRO:CD	2.37	0.54
1:G:406:VAL:HG12	1:G:407:GLY:H	1.71	0.54
1:G:829:TRP:HZ2	2:H:83:MET:CE	2.17	0.54
1:J:493:HIS:ND1	1:J:514:ASP:OD2	2.41	0.54
1:J:757:GLN:HA	1:J:776:GLU:CB	2.37	0.54
1:P:126:VAL:HG13	1:P:675:ILE:HG22	1.90	0.54
1:P:571:ALA:O	1:P:572:LYS:CB	2.56	0.54
1:P:642:LYS:HG2	4:0:22:ALA:C	2.27	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:3:287:ILE:HB	4:5:203:THR:CG2	2.35	0.54
1:A:22:LYS:O	1:A:26:GLU:N	2.29	0.54
1:A:38:VAL:CB	1:A:52:ILE:HD11	2.38	0.54
1:A:218:LEU:N	1:A:221:GLN:HG2	2.23	0.54
1:A:796:GLY:HA3	3:C:40:ASN:OD1	2.07	0.54
1:D:793:ARG:NH2	3:F:147:MET:CE	2.69	0.54
1:D:804:ARG:NH2	3:F:149:VAL:HA	2.22	0.54
3:F:92:ARG:HA	3:F:139:TYR:OH	2.08	0.54
1:G:404:PRO:CG	1:G:417:GLU:HG3	2.38	0.54
1:G:493:HIS:ND1	1:G:514:ASP:OD2	2.41	0.54
1:G:538:GLU:HG3	4:V:352:PHE:CA	2.38	0.54
1:G:571:ALA:O	1:G:572:LYS:CB	2.56	0.54
1:J:538:GLU:CG	4:W:351:THR:C	2.73	0.54
1:J:642:LYS:HG2	4:W:22:ALA:C	2.27	0.54
1:J:791:GLN:O	1:J:794:CYS:HB2	2.08	0.54
3:L:46:ILE:O	3:L:50:LEU:CG	2.47	0.54
1:P:215:GLN:CA	1:P:340:ILE:CG2	2.62	0.54
1:P:538:GLU:HG3	4:0:352:PHE:CA	2.38	0.54
1:P:638:GLY:HA2	4:0:345:ILE:H	1.72	0.54
4:1:45:VAL:HG23	4:Z:148:THR:OG1	2.07	0.54
4:1:203:THR:HG22	4:Z:287:ILE:C	2.29	0.54
4:V:324:THR:HG22	4:X:247:VAL:HG13	1.90	0.54
1:A:404:PRO:CG	1:A:417:GLU:HG3	2.38	0.53
1:A:553:MLY:O	4:V:48:GLY:CA	2.56	0.53
1:A:753:VAL:CG1	1:A:775:LEU:HD23	2.32	0.53
1:D:630:ALA:HA	4:9:25:ASP:OD2	2.07	0.53
1:G:470:PHE:O	1:G:473:ASN:ND2	2.40	0.53
1:G:556:ASP:OD2	4:X:44:MET:HG3	2.08	0.53
1:G:629:GLU:CB	1:G:643:GLY:C	2.75	0.53
3:I:92:ARG:HA	3:I:139:TYR:OH	2.08	0.53
1:J:538:GLU:HG3	4:W:352:PHE:CA	2.38	0.53
1:J:629:GLU:CB	1:J:643:GLY:C	2.76	0.53
1:J:739:ASP:CB	1:J:742:LYS:CB	2.81	0.53
1:P:135:TYR:HD2	1:P:191:ARG:HD3	1.73	0.53
1:P:277:PHE:CG	1:P:278:GLN:N	2.76	0.53
4:1:287:ILE:CG2	4:3:202:THR:CA	2.82	0.53
4:4:185:LEU:HD23	4:4:306:TYR:OH	2.09	0.53
1:A:470:PHE:O	1:A:473:ASN:ND2	2.40	0.53
1:G:135:TYR:HD2	1:G:191:ARG:HD3	1.73	0.53
1:G:576:GLU:CG	1:G:577:ALA:N	2.43	0.53
1:G:707:CYS:HB3	1:G:712:PRO:HA	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:792:ALA:HA	3:I:42:THR:HA	1.89	0.53
1:J:22:LYS:O	1:J:26:GLU:N	2.30	0.53
1:J:38:VAL:CB	1:J:52:ILE:HD11	2.38	0.53
1:J:640:LYS:C	4:W:23:GLY:CA	2.64	0.53
1:J:798:LEU:HD22	3:L:118:MET:SD	2.48	0.53
1:P:32:PHE:CD1	1:P:83:PRO:HD3	2.44	0.53
1:P:154:HIS:CE1	1:P:156:PHE:HD2	2.26	0.53
1:P:584:TYR:CD1	1:P:585:ALA:N	2.77	0.53
4:1:202:THR:HA	4:Z:287:ILE:HG13	1.91	0.53
1:A:584:TYR:CD1	1:A:585:ALA:N	2.77	0.53
1:A:819:ASN:OD1	2:B:92:ASP:N	2.40	0.53
1:A:837:MLY:HH21	2:H:20:ASP:HB2	1.88	0.53
2:E:146:GLY:O	2:E:147:ASN:ND2	2.41	0.53
1:G:148:ARG:NE	1:G:764:MLY:CH2	2.68	0.53
1:G:553:MLY:HH12	4:X:45:VAL:CG1	2.29	0.53
1:G:661:MET:O	1:G:665:ARG:HG3	2.09	0.53
1:G:754:ASP:HB2	1:G:776:GLU:CG	2.35	0.53
1:G:791:GLN:O	1:G:794:CYS:HB2	2.08	0.53
1:G:794:CYS:O	1:G:798:LEU:N	2.37	0.53
1:J:135:TYR:HD2	1:J:191:ARG:HD3	1.73	0.53
1:J:642:LYS:CG	4:W:22:ALA:CA	2.80	0.53
1:J:756:THR:HG23	1:J:779:ARG:CD	2.38	0.53
1:P:724:TYR:CZ	1:P:776:GLU:OE2	2.60	0.53
4:Y:185:LEU:HD23	4:Y:306:TYR:OH	2.09	0.53
1:A:85:TYR:HH	1:A:772:LEU:CD2	1.85	0.53
1:D:98:HIS:HB3	1:D:100:PRO:CD	2.25	0.53
1:D:529:PRO:HB2	4:9:354:GLN:HA	1.91	0.53
1:D:579:PHE:HE1	1:D:581:LEU:HD13	1.72	0.53
1:G:534:SER:C	4:V:351:THR:CA	2.48	0.53
1:G:634:GLY:N	4:V:25:ASP:O	2.31	0.53
1:J:32:PHE:CD1	1:J:83:PRO:HD3	2.43	0.53
1:J:218:LEU:N	1:J:221:GLN:HG2	2.24	0.53
1:J:295:MLY:CG	1:J:332:MET:HE1	2.39	0.53
1:P:218:LEU:N	1:P:221:GLN:HG2	2.24	0.53
1:P:404:PRO:CG	1:P:417:GLU:HG3	2.38	0.53
1:P:612:GLN:HE22	1:P:627:GLY:HA2	1.66	0.53
1:P:819:ASN:CG	2:Q:90:GLY:O	2.46	0.53
4:0:185:LEU:HD23	4:0:306:TYR:OH	2.09	0.53
4:W:288:ASP:H	4:Y:204:ALA:H	1.56	0.53
1:A:791:GLN:O	1:A:794:CYS:HB2	2.08	0.53
3:C:92:ARG:HA	3:C:139:TYR:OH	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:218:LEU:HA	1:D:221:GLN:HG3	1.71	0.53
1:D:404:PRO:CG	1:D:417:GLU:HG3	2.38	0.53
1:D:553:MLY:O	4:W:48:GLY:CA	2.56	0.53
1:G:251:ARG:HB2	1:G:264:ASP:HB2	1.91	0.53
1:G:817:GLN:NE2	2:H:128:PHE:HE1	2.04	0.53
1:J:404:PRO:CG	1:J:417:GLU:HG3	2.38	0.53
1:J:630:ALA:HA	4:W:25:ASP:OD2	2.07	0.53
1:P:217:THR:C	1:P:221:GLN:NE2	2.62	0.53
1:P:599:ASN:CG	1:P:649:VAL:H	2.12	0.53
1:P:649:VAL:CG1	1:P:649:VAL:HA	2.35	0.53
4:8:185:LEU:HD23	4:8:306:TYR:OH	2.08	0.53
1:A:42:HIS:HB3	1:A:45:GLN:O	2.09	0.53
1:A:529:PRO:HB2	4:8:354:GLN:HA	1.91	0.53
2:B:146:GLY:O	2:B:147:ASN:ND2	2.41	0.53
1:D:42:HIS:HB3	1:D:45:GLN:O	2.09	0.53
1:D:277:PHE:CG	1:D:278:GLN:N	2.76	0.53
1:D:795:ARG:HD2	3:F:35:ARG:NH1	2.23	0.53
2:E:129:THR:O	2:E:133:ILE:HG13	2.09	0.53
1:G:277:PHE:CG	1:G:278:GLN:N	2.76	0.53
1:G:752:ASP:O	1:G:780:ASP:CB	2.56	0.53
1:J:584:TYR:CD1	1:J:585:ALA:N	2.77	0.53
1:J:733:PRO:O	1:J:737:PHE:CE1	2.53	0.53
1:J:795:ARG:CA	3:L:35:ARG:NH2	2.64	0.53
2:Q:114:LYS:O	2:Q:147:ASN:ND2	2.41	0.53
2:Q:146:GLY:O	2:Q:147:ASN:ND2	2.41	0.53
4:0:243:PRO:HB2	4:Y:291:LYS:HE3	1.90	0.53
4:0:246:GLN:HG2	4:Y:325:MET:CE	2.38	0.53
4:7:185:LEU:HD23	4:7:306:TYR:OH	2.09	0.53
4:X:287:ILE:HG23	4:Z:201:VAL:CG2	2.38	0.53
1:A:135:TYR:HD2	1:A:191:ARG:HD3	1.74	0.53
1:A:493:HIS:ND1	1:A:514:ASP:OD2	2.41	0.53
1:A:539:GLU:OE2	4:V:45:VAL:C	2.47	0.53
1:A:642:LYS:HB2	4:8:24:ASP:O	1.88	0.53
1:A:723:ARG:CG	1:A:723:ARG:HH11	2.20	0.53
1:D:95:THR:O	1:D:770:GLY:N	2.42	0.53
1:D:135:TYR:HD2	1:D:191:ARG:HD3	1.73	0.53
1:D:218:LEU:N	1:D:221:GLN:HG2	2.24	0.53
1:D:584:TYR:CD1	1:D:585:ALA:N	2.77	0.53
1:D:798:LEU:CD2	3:F:122:GLU:HB3	2.37	0.53
1:G:218:LEU:N	1:G:221:GLN:HG2	2.24	0.53
1:G:640:LYS:C	4:V:23:GLY:CA	2.64	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:46:ILE:O	3:I:50:LEU:CG	2.47	0.53
1:J:109:ARG:O	1:J:114:MET:N	2.37	0.53
1:J:220:ASP:O	1:J:224:SER:N	2.27	0.53
1:J:418:THR:CB	1:J:421:GLU:HG3	2.37	0.53
1:J:529:PRO:HB2	4:W:354:GLN:HA	1.91	0.53
1:J:599:ASN:CG	1:J:649:VAL:H	2.12	0.53
1:J:661:MET:O	1:J:665:ARG:HG3	2.09	0.53
3:L:92:ARG:HA	3:L:139:TYR:OH	2.08	0.53
1:P:84:MLY:HA	1:P:723:ARG:CZ	2.38	0.53
1:P:630:ALA:HA	4:0:25:ASP:OD2	2.07	0.53
1:P:817:GLN:CD	2:Q:127:ARG:HB2	2.29	0.53
1:A:579:PHE:CD2	1:A:592:ILE:HD11	2.40	0.53
3:C:104:GLY:HA2	3:C:137:ILE:HD11	1.91	0.53
3:C:110:VAL:HG13	3:C:114:LEU:HD12	1.91	0.53
1:D:32:PHE:CD1	1:D:83:PRO:HD3	2.43	0.53
1:D:135:TYR:CD2	1:D:191:ARG:HG2	2.44	0.53
1:D:661:MET:O	1:D:665:ARG:HG3	2.09	0.53
1:D:732:ILE:H	1:D:733:PRO:HD2	1.74	0.53
1:G:32:PHE:CD1	1:G:83:PRO:HD3	2.44	0.53
1:G:295:MLY:HE2	1:G:332:MET:HE1	1.91	0.53
1:J:251:ARG:HB2	1:J:264:ASP:HB2	1.91	0.53
1:P:798:LEU:HD11	3:R:126:LEU:HD11	1.90	0.53
4:2:185:LEU:HD23	4:2:306:TYR:OH	2.09	0.53
1:A:156:PHE:HD1	1:A:195:TYR:CD1	2.27	0.53
1:A:217:THR:C	1:A:221:GLN:NE2	2.62	0.53
1:A:661:MET:O	1:A:665:ARG:HG3	2.09	0.53
1:A:759:ALA:O	1:A:766:PHE:N	2.32	0.53
1:A:823:PHE:CE1	2:B:160:GLY:HA3	2.39	0.53
1:D:404:PRO:HG3	1:D:417:GLU:HG3	1.91	0.53
1:D:418:THR:CB	1:D:421:GLU:HG3	2.37	0.53
1:D:493:HIS:ND1	1:D:514:ASP:OD2	2.41	0.53
1:D:507:GLY:O	1:D:762:HIS:CD2	2.61	0.53
1:G:292:MET:CE	1:G:309:PRO:HA	2.39	0.53
1:G:636:LYS:HB2	4:V:334:GLU:OE1	2.09	0.53
1:J:295:MLY:HE2	1:J:332:MET:HE1	1.91	0.53
1:J:404:PRO:HG3	1:J:417:GLU:HG3	1.91	0.53
1:J:571:ALA:O	1:J:572:LYS:CB	2.56	0.53
2:K:112:ILE:C	2:K:147:ASN:O	2.42	0.53
2:K:129:THR:O	2:K:133:ILE:HG13	2.09	0.53
1:P:404:PRO:HG3	1:P:417:GLU:HG3	1.91	0.53
1:P:552:ASN:HB3	4:2:41:GLN:NE2	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:92:ARG:HA	3:R:139:TYR:OH	2.08	0.53
4:5:185:LEU:HD23	4:5:306:TYR:OH	2.09	0.53
4:X:185:LEU:HD23	4:X:306:TYR:OH	2.09	0.53
1:A:32:PHE:CD1	1:A:83:PRO:HD3	2.44	0.53
1:A:135:TYR:CD2	1:A:191:ARG:HG2	2.44	0.53
2:B:114:LYS:O	2:B:147:ASN:ND2	2.41	0.53
1:D:494:HIS:O	1:D:498:LEU:HB2	2.09	0.53
1:D:599:ASN:CG	1:D:649:VAL:H	2.12	0.53
1:D:642:LYS:HG2	4:9:22:ALA:C	2.27	0.53
1:D:798:LEU:CD1	3:F:126:LEU:CD2	2.87	0.53
1:G:642:LYS:HG2	4:V:22:ALA:C	2.27	0.53
1:G:792:ALA:CB	3:I:42:THR:N	2.70	0.53
1:J:277:PHE:CG	1:J:278:GLN:N	2.76	0.53
3:L:53:PRO:HB2	3:L:55:LYS:HG3	1.91	0.53
1:P:135:TYR:CD2	1:P:191:ARG:HG2	2.44	0.53
1:P:156:PHE:HD1	1:P:195:TYR:CD1	2.27	0.53
1:P:251:ARG:HB2	1:P:264:ASP:HB2	1.91	0.53
1:P:529:PRO:HB2	4:0:354:GLN:HA	1.91	0.53
1:P:640:LYS:C	4:0:23:GLY:CA	2.64	0.53
4:3:185:LEU:HD23	4:3:306:TYR:OH	2.09	0.53
4:X:324:THR:HB	4:Z:247:VAL:N	2.22	0.53
1:A:277:PHE:CG	1:A:278:GLN:N	2.76	0.52
1:A:599:ASN:CG	1:A:649:VAL:H	2.12	0.52
1:A:836:PHE:CE2	2:B:160:GLY:CA	2.92	0.52
1:D:410:ASN:CG	4:9:334:GLU:C	2.65	0.52
1:G:599:ASN:CG	1:G:649:VAL:H	2.12	0.52
2:H:114:LYS:HA	2:H:147:ASN:HD22	1.75	0.52
1:J:197:ALA:O	1:J:201:ALA:HB2	2.10	0.52
1:P:544:LYS:HZ1	4:2:45:VAL:HG21	1.73	0.52
4:7:180:LEU:HD22	4:7:267:ILE:HD11	1.92	0.52
1:D:154:HIS:CE1	1:D:156:PHE:HD2	2.26	0.52
1:D:538:GLU:CD	4:9:355:MET:HE3	2.28	0.52
1:D:556:ASP:HB3	4:W:43:VAL:HG12	1.91	0.52
1:D:793:ARG:CZ	3:F:87:PHE:HE1	2.22	0.52
3:F:53:PRO:HB2	3:F:55:LYS:HG3	1.91	0.52
1:G:63:MLY:HG3	1:G:64:THR:H	1.75	0.52
1:G:579:PHE:CD2	1:G:592:ILE:HD11	2.40	0.52
1:G:642:LYS:CG	4:V:22:ALA:HA	2.37	0.52
1:G:795:ARG:CD	3:I:116:GLU:OE2	2.57	0.52
2:H:114:LYS:O	2:H:147:ASN:ND2	2.41	0.52
2:K:114:LYS:O	2:K:147:ASN:ND2	2.41	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:110:VAL:HG13	3:L:114:LEU:HD12	1.91	0.52
1:P:63:MLY:HG3	1:P:64:THR:H	1.75	0.52
4:V:180:LEU:HD22	4:V:267:ILE:HD11	1.92	0.52
4:V:185:LEU:HD23	4:V:306:TYR:OH	2.09	0.52
1:A:295:MLY:HE2	1:A:332:MET:HE1	1.91	0.52
1:A:555:TYR:N	4:V:48:GLY:N	2.58	0.52
1:D:538:GLU:HG3	4:9:352:PHE:CA	2.38	0.52
1:D:636:LYS:HB2	4:9:334:GLU:OE1	2.09	0.52
1:G:584:TYR:CD1	1:G:585:ALA:N	2.77	0.52
1:G:732:ILE:H	1:G:733:PRO:HD2	1.73	0.52
1:G:769:ALA:HB3	1:G:770:GLY:N	2.04	0.52
1:J:135:TYR:CD2	1:J:191:ARG:HG2	2.44	0.52
1:J:796:GLY:N	3:L:35:ARG:NE	2.57	0.52
1:J:829:TRP:HZ3	2:K:84:PHE:CE2	2.27	0.52
1:P:197:ALA:O	1:P:201:ALA:HB2	2.10	0.52
3:R:53:PRO:HB2	3:R:55:LYS:HG3	1.91	0.52
4:0:205:GLU:HB2	4:Y:287:ILE:HD13	1.91	0.52
4:1:180:LEU:HD22	4:1:267:ILE:HD11	1.92	0.52
4:9:185:LEU:HD23	4:9:306:TYR:OH	2.09	0.52
4:W:185:LEU:HD23	4:W:306:TYR:OH	2.09	0.52
4:W:285:CYS:O	4:W:290:ARG:NH1	2.43	0.52
1:A:636:LYS:HB2	4:8:334:GLU:OE1	2.08	0.52
1:D:128:PRO:O	1:D:129:TYR:HB2	2.09	0.52
1:D:795:ARG:CB	3:F:35:ARG:NH2	2.65	0.52
1:G:530:MET:HG2	4:V:354:GLN:HB2	0.57	0.52
3:I:53:PRO:HB2	3:I:55:LYS:HG3	1.91	0.52
1:J:42:HIS:HB3	1:J:45:GLN:O	2.09	0.52
3:L:104:GLY:HA2	3:L:137:ILE:HD11	1.92	0.52
1:P:506:GLU:CG	1:P:760:PHE:N	2.72	0.52
1:P:821:ARG:HH22	2:Q:127:ARG:CD	2.21	0.52
4:0:180:LEU:HD22	4:0:267:ILE:HD11	1.92	0.52
4:3:180:LEU:HD22	4:3:267:ILE:HD11	1.92	0.52
4:3:285:CYS:O	4:3:290:ARG:NH1	2.43	0.52
4:3:322:PRO:C	4:5:244:ASP:HB2	2.30	0.52
4:4:180:LEU:HD22	4:4:267:ILE:HD11	1.92	0.52
4:5:285:CYS:O	4:5:290:ARG:NH1	2.43	0.52
4:9:285:CYS:O	4:9:290:ARG:NH1	2.43	0.52
4:9:287:ILE:HG22	4:W:204:ALA:HB3	1.91	0.52
4:Z:180:LEU:HD22	4:Z:267:ILE:HD11	1.92	0.52
4:Z:185:LEU:HD23	4:Z:306:TYR:OH	2.09	0.52
4:Z:285:CYS:O	4:Z:290:ARG:NH1	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:63:MLY:HG3	1:A:64:THR:H	1.75	0.52
1:A:109:ARG:HD3	1:A:117:THR:HB	1.92	0.52
1:A:154:HIS:CE1	1:A:156:PHE:HD2	2.27	0.52
1:A:404:PRO:HG3	1:A:417:GLU:HG3	1.91	0.52
3:C:53:PRO:HB2	3:C:55:LYS:HG3	1.91	0.52
1:D:712:PRO:CA	1:D:771:LEU:HD22	2.39	0.52
1:G:40:VAL:HG13	1:G:41:VAL:O	2.10	0.52
1:G:42:HIS:HB3	1:G:45:GLN:O	2.09	0.52
1:G:109:ARG:HD3	1:G:117:THR:HB	1.92	0.52
1:G:135:TYR:CD2	1:G:191:ARG:HG2	2.44	0.52
1:G:404:PRO:HG3	1:G:417:GLU:HG3	1.91	0.52
1:G:732:ILE:HG23	1:G:747:LEU:CD1	1.04	0.52
1:G:759:ALA:O	1:G:766:PHE:N	2.32	0.52
1:J:98:HIS:HB3	1:J:100:PRO:CD	2.25	0.52
1:J:156:PHE:HD1	1:J:195:TYR:CD1	2.27	0.52
1:J:612:GLN:HE22	1:J:627:GLY:HA2	1.66	0.52
1:P:295:MLY:HE2	1:P:332:MET:HE1	1.91	0.52
1:P:544:LYS:NZ	4:2:45:VAL:HG22	2.23	0.52
1:P:636:LYS:HB2	4:0:334:GLU:OE1	2.09	0.52
1:P:661:MET:O	1:P:665:ARG:HG3	2.09	0.52
1:P:795:ARG:C	3:R:35:ARG:NH1	2.63	0.52
2:Q:129:THR:O	2:Q:133:ILE:HG13	2.09	0.52
3:R:104:GLY:HA2	3:R:137:ILE:HD11	1.92	0.52
4:1:203:THR:HG23	4:Z:288:ASP:OD1	2.09	0.52
4:5:180:LEU:HD22	4:5:267:ILE:HD11	1.92	0.52
4:8:180:LEU:HD22	4:8:267:ILE:HD11	1.92	0.52
4:V:285:CYS:O	4:V:290:ARG:NH1	2.43	0.52
4:Y:180:LEU:HD22	4:Y:267:ILE:HD11	1.92	0.52
1:A:251:ARG:HB2	1:A:264:ASP:HB2	1.91	0.52
1:A:556:ASP:HB3	4:V:43:VAL:HG12	1.91	0.52
1:D:538:GLU:HA	4:9:349:LEU:CB	2.40	0.52
1:D:538:GLU:CG	4:9:351:THR:C	2.73	0.52
2:E:114:LYS:O	2:E:147:ASN:ND2	2.41	0.52
2:E:114:LYS:N	2:E:146:GLY:O	2.40	0.52
1:G:41:VAL:HG13	1:G:42:HIS:N	2.25	0.52
1:G:154:HIS:CE1	1:G:156:PHE:HD2	2.27	0.52
1:J:642:LYS:CA	4:W:22:ALA:C	2.70	0.52
2:K:114:LYS:HA	2:K:147:ASN:HD22	1.74	0.52
1:P:40:VAL:HG13	1:P:41:VAL:O	2.10	0.52
1:P:491:PHE:HD1	1:P:671:PHE:CE2	2.27	0.52
4:0:287:ILE:CG2	4:2:203:THR:HG21	2.33	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:4:285:CYS:O	4:4:290:ARG:NH1	2.43	0.52
4:9:180:LEU:HD22	4:9:267:ILE:HD11	1.92	0.52
4:W:180:LEU:HD22	4:W:267:ILE:HD11	1.92	0.52
4:X:285:CYS:O	4:X:290:ARG:NH1	2.43	0.52
1:A:212:GLY:O	1:A:213:LYS:HB2	2.10	0.52
1:A:491:PHE:HD1	1:A:671:PHE:CE2	2.27	0.52
1:A:752:ASP:CB	1:A:782:MLY:HD3	2.40	0.52
1:A:753:VAL:CB	1:A:775:LEU:HG	2.30	0.52
2:B:114:LYS:HA	2:B:147:ASN:HD22	1.75	0.52
1:D:41:VAL:HG13	1:D:42:HIS:N	2.25	0.52
1:D:156:PHE:HD1	1:D:195:TYR:CD1	2.28	0.52
1:D:491:PHE:HD1	1:D:671:PHE:CE2	2.27	0.52
1:D:725:ARG:O	1:D:729:ALA:HA	2.10	0.52
1:G:128:PRO:O	1:G:129:TYR:HB2	2.09	0.52
1:G:481:ASN:N	1:G:481:ASN:ND2	2.51	0.52
3:I:104:GLY:HA2	3:I:137:ILE:HD11	1.92	0.52
1:J:41:VAL:HG13	1:J:42:HIS:N	2.25	0.52
1:J:530:MET:HG2	4:W:354:GLN:HB2	0.57	0.52
2:K:121:LEU:CA	2:K:128:PHE:CG	2.89	0.52
1:P:819:ASN:N	2:Q:90:GLY:O	2.41	0.52
3:R:110:VAL:HG13	3:R:114:LEU:HD12	1.92	0.52
4:0:205:GLU:HG3	4:Y:287:ILE:HD13	1.88	0.52
4:2:285:CYS:O	4:2:290:ARG:NH1	2.43	0.52
4:8:287:ILE:HG22	4:V:204:ALA:HB3	1.91	0.52
4:X:180:LEU:HD22	4:X:267:ILE:HD11	1.92	0.52
1:A:494:HIS:O	1:A:498:LEU:HB2	2.09	0.52
1:A:642:LYS:CG	4:8:22:ALA:HA	2.38	0.52
1:D:506:GLU:O	1:D:763:THR:N	2.43	0.52
1:D:732:ILE:HG23	1:D:747:LEU:CD1	1.04	0.52
1:D:795:ARG:CZ	3:F:116:GLU:OE1	2.56	0.52
1:G:156:PHE:HD1	1:G:195:TYR:CD1	2.27	0.52
1:G:217:THR:C	1:G:221:GLN:NE2	2.62	0.52
1:G:491:PHE:HD1	1:G:671:PHE:CE2	2.27	0.52
1:G:529:PRO:HB2	4:V:354:GLN:HA	1.92	0.52
2:H:129:THR:O	2:H:133:ILE:HG13	2.09	0.52
1:J:642:LYS:HG2	4:W:21:PHE:C	2.29	0.52
1:J:725:ARG:O	1:J:729:ALA:HA	2.10	0.52
1:J:795:ARG:CD	3:L:43:ASN:H	2.23	0.52
1:P:42:HIS:HB3	1:P:45:GLN:O	2.09	0.52
1:P:733:PRO:HB2	3:R:93:VAL:HG21	1.91	0.52
1:P:831:TRP:HE1	2:Q:67:MET:CB	2.15	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:1:185:LEU:HD23	4:1:306:TYR:OH	2.09	0.52
1:A:218:LEU:CD2	1:A:222:ILE:CG1	2.85	0.52
1:A:837:MLY:CH2	2:H:20:ASP:CA	2.78	0.52
1:D:195:TYR:CE2	1:D:199:ILE:CD1	2.93	0.52
1:D:251:ARG:HB2	1:D:264:ASP:HB2	1.91	0.52
1:D:642:LYS:CA	4:9:22:ALA:C	2.71	0.52
1:D:725:ARG:HG3	1:D:733:PRO:CA	2.36	0.52
1:D:732:ILE:CD1	1:D:782:MLY:HH21	2.37	0.52
1:G:197:ALA:O	1:G:201:ALA:HB2	2.09	0.52
1:G:816:ILE:HD11	2:H:100:ALA:CB	2.40	0.52
1:J:40:VAL:HG13	1:J:41:VAL:O	2.10	0.52
1:J:128:PRO:O	1:J:129:TYR:HB2	2.09	0.52
1:J:292:MET:CE	1:J:309:PRO:HA	2.39	0.52
1:J:636:LYS:HB2	4:W:334:GLU:OE1	2.09	0.52
1:J:732:ILE:HG23	1:J:747:LEU:CD1	1.05	0.52
1:P:22:LYS:O	1:P:26:GLU:N	2.30	0.52
1:P:98:HIS:HB3	1:P:100:PRO:CD	2.25	0.52
1:P:818:TYR:CZ	2:Q:127:ARG:CZ	2.84	0.52
4:1:285:CYS:O	4:1:290:ARG:NH1	2.43	0.52
4:3:287:ILE:HG22	4:5:204:ALA:HB3	1.91	0.52
4:Y:285:CYS:O	4:Y:290:ARG:NH1	2.43	0.52
1:A:538:GLU:HA	4:8:349:LEU:CB	2.39	0.52
1:A:578:HIS:O	1:A:579:PHE:HB3	2.10	0.52
1:D:40:VAL:HG13	1:D:41:VAL:O	2.10	0.52
1:D:41:VAL:HG21	1:D:76:GLN:HG3	1.92	0.52
1:D:221:GLN:HB2	1:D:449:LEU:HD11	1.92	0.52
1:D:508:ILE:CA	1:D:761:GLY:HA3	2.36	0.52
2:E:114:LYS:HA	2:E:147:ASN:HD22	1.74	0.52
1:G:221:GLN:HB2	1:G:449:LEU:HD11	1.92	0.52
1:G:494:HIS:O	1:G:498:LEU:HB2	2.09	0.52
1:G:823:PHE:HE1	2:H:160:GLY:CA	2.23	0.52
1:J:154:HIS:CE1	1:J:156:PHE:HD2	2.26	0.52
1:J:221:GLN:HB2	1:J:449:LEU:HD11	1.92	0.52
1:J:232:PHE:CE1	1:J:287:ILE:HD13	2.44	0.52
1:J:491:PHE:HD1	1:J:671:PHE:CE2	2.27	0.52
1:P:195:TYR:CE2	1:P:199:ILE:CD1	2.93	0.52
1:P:232:PHE:CE1	1:P:287:ILE:HD13	2.44	0.52
1:P:292:MET:CE	1:P:309:PRO:HA	2.40	0.52
1:P:642:LYS:HG2	4:0:21:PHE:C	2.29	0.52
1:P:642:LYS:CA	4:0:22:ALA:C	2.70	0.52
2:Q:121:LEU:CA	2:Q:128:PHE:CG	2.89	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:40:VAL:HG13	1:A:41:VAL:O	2.10	0.51
1:A:135:TYR:HD2	1:A:191:ARG:CD	2.23	0.51
1:A:408:VAL:CG1	4:8:332:PRO:HB3	2.40	0.51
1:D:63:MLY:HG3	1:D:64:THR:H	1.75	0.51
1:D:109:ARG:HD3	1:D:117:THR:HB	1.92	0.51
1:G:559:LEU:HD23	1:G:559:LEU:C	2.31	0.51
1:G:813:ILE:HG22	2:H:128:PHE:CE1	2.44	0.51
2:H:114:LYS:N	2:H:146:GLY:O	2.40	0.51
1:J:63:MLY:HG3	1:J:64:THR:H	1.75	0.51
1:J:135:TYR:HD2	1:J:191:ARG:CD	2.23	0.51
1:J:538:GLU:CD	4:W:355:MET:HE3	2.29	0.51
1:J:791:GLN:OE1	3:L:116:GLU:CG	2.55	0.51
1:P:84:MLY:CD	1:P:724:TYR:CZ	2.90	0.51
4:2:180:LEU:HD22	4:2:267:ILE:HD11	1.92	0.51
4:7:287:ILE:HG22	4:9:204:ALA:HB3	1.91	0.51
1:A:292:MET:CE	1:A:309:PRO:HA	2.39	0.51
1:A:530:MET:HG2	4:8:354:GLN:HB2	0.57	0.51
1:D:553:MLY:CE	4:W:45:VAL:CA	2.49	0.51
1:D:642:LYS:HG2	4:9:21:PHE:C	2.30	0.51
1:D:742:LYS:O	1:D:745:GLU:HB2	2.10	0.51
2:E:112:ILE:HG23	2:E:147:ASN:HB3	1.93	0.51
3:F:100:GLY:O	3:F:138:ASN:HA	2.11	0.51
3:F:110:VAL:HG13	3:F:114:LEU:HD12	1.91	0.51
1:J:195:TYR:CE2	1:J:199:ILE:CD1	2.93	0.51
1:J:538:GLU:HA	4:W:349:LEU:CB	2.40	0.51
1:P:221:GLN:HB2	1:P:449:LEU:HD11	1.92	0.51
1:P:248:MLY:N	1:P:463:ASP:O	2.44	0.51
1:P:494:HIS:O	1:P:498:LEU:HB2	2.09	0.51
1:P:640:LYS:CA	1:P:645:SER:OG	2.58	0.51
2:Q:114:LYS:HA	2:Q:147:ASN:HD22	1.74	0.51
4:0:285:CYS:O	4:0:290:ARG:NH1	2.43	0.51
4:7:285:CYS:O	4:7:290:ARG:NH1	2.43	0.51
1:A:232:PHE:CE1	1:A:287:ILE:HD13	2.44	0.51
1:A:725:ARG:O	1:A:729:ALA:HA	2.10	0.51
1:A:742:LYS:O	1:A:745:GLU:HB2	2.10	0.51
1:A:797:PHE:CD1	3:C:149:VAL:CG1	2.93	0.51
1:A:836:PHE:CE2	2:B:160:GLY:C	2.84	0.51
1:D:555:TYR:N	4:W:48:GLY:N	2.58	0.51
3:F:104:GLY:HA2	3:F:137:ILE:HD11	1.92	0.51
1:G:578:HIS:O	1:G:579:PHE:HB3	2.10	0.51
1:G:834:LEU:HD22	2:H:34:ILE:HD11	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:137:TRP:CA	2:H:145:ALA:CB	2.82	0.51
1:J:248:MLY:N	1:J:463:ASP:O	2.44	0.51
1:J:640:LYS:CA	1:J:645:SER:OG	2.58	0.51
1:J:649:VAL:HA	1:J:649:VAL:HG23	1.83	0.51
4:8:285:CYS:O	4:8:290:ARG:NH1	2.43	0.51
1:A:93:MET:CE	1:A:715:VAL:CG1	2.66	0.51
1:A:221:GLN:HB2	1:A:449:LEU:HD11	1.92	0.51
1:A:797:PHE:CE1	3:C:149:VAL:HG12	2.46	0.51
1:D:248:MLY:N	1:D:463:ASP:O	2.44	0.51
1:D:507:GLY:O	1:D:761:GLY:HA3	2.06	0.51
1:G:195:TYR:CE2	1:G:199:ILE:CD1	2.93	0.51
1:G:538:GLU:HA	4:V:349:LEU:CB	2.40	0.51
1:G:546:THR:CG2	1:G:548:THR:HB	2.41	0.51
1:G:817:GLN:CB	2:H:127:ARG:HD2	2.40	0.51
1:J:494:HIS:O	1:J:498:LEU:HB2	2.09	0.51
1:J:553:MLY:CE	4:Y:45:VAL:HG11	2.32	0.51
1:J:804:ARG:HH22	3:L:149:VAL:HA	1.73	0.51
1:P:13:ALA:C	1:P:15:PRO:HD2	2.31	0.51
1:P:93:MET:SD	1:P:715:VAL:CA	2.91	0.51
1:P:799:MET:HG3	3:R:35:ARG:HD2	1.91	0.51
4:1:203:THR:HG23	4:Z:288:ASP:CG	2.29	0.51
1:A:195:TYR:CE2	1:A:199:ILE:CD1	2.93	0.51
1:A:248:MLY:N	1:A:463:ASP:O	2.44	0.51
1:A:546:THR:CG2	1:A:548:THR:HB	2.41	0.51
1:A:592:ILE:O	1:A:592:ILE:HG22	2.11	0.51
1:D:197:ALA:O	1:D:201:ALA:HB2	2.09	0.51
1:D:232:PHE:CE1	1:D:287:ILE:HD13	2.45	0.51
1:D:295:MLY:HE2	1:D:332:MET:HE1	1.90	0.51
1:G:232:PHE:CE1	1:G:287:ILE:HD13	2.45	0.51
1:G:418:THR:O	1:G:422:VAL:HG23	2.11	0.51
1:G:817:GLN:CD	2:H:127:ARG:CB	2.79	0.51
1:J:418:THR:O	1:J:422:VAL:HG23	2.11	0.51
1:J:687:GLU:O	1:J:691:VAL:HG23	2.11	0.51
1:J:732:ILE:H	1:J:733:PRO:HD2	1.74	0.51
1:J:795:ARG:HH21	3:L:116:GLU:HG2	1.74	0.51
1:P:212:GLY:O	1:P:213:LYS:HB2	2.11	0.51
1:P:559:LEU:C	1:P:559:LEU:HD23	2.31	0.51
1:P:742:LYS:O	1:P:745:GLU:HB2	2.10	0.51
2:Q:112:ILE:HG23	2:Q:147:ASN:HB3	1.93	0.51
1:A:38:VAL:CG1	1:A:39:PHE:N	2.74	0.51
1:A:559:LEU:HD23	1:A:559:LEU:C	2.31	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:732:ILE:H	1:A:733:PRO:CD	2.23	0.51
1:A:752:ASP:OD2	1:A:782:MLY:HG2	2.11	0.51
1:A:837:MLY:CH2	2:H:20:ASP:CB	2.81	0.51
3:C:100:GLY:O	3:C:138:ASN:HA	2.11	0.51
1:D:411:GLU:H	4:9:333:PRO:CG	2.24	0.51
1:D:592:ILE:O	1:D:592:ILE:HG22	2.10	0.51
1:D:724:TYR:CA	1:D:782:MLY:CE	2.87	0.51
1:D:793:ARG:CZ	3:F:87:PHE:CE1	2.93	0.51
1:G:13:ALA:C	1:G:15:PRO:HD2	2.31	0.51
1:G:41:VAL:HG21	1:G:76:GLN:HG3	1.92	0.51
1:G:148:ARG:HH21	1:G:764:MLY:CH2	2.17	0.51
1:G:311:ASP:HB2	1:G:312:TYR:CE1	2.46	0.51
3:I:110:VAL:HG13	3:I:114:LEU:HD12	1.91	0.51
1:J:13:ALA:C	1:J:15:PRO:HD2	2.31	0.51
1:J:212:GLY:O	1:J:213:LYS:HB2	2.11	0.51
1:J:578:HIS:O	1:J:579:PHE:HB3	2.11	0.51
1:J:592:ILE:HG22	1:J:592:ILE:O	2.10	0.51
1:P:84:MLY:HD3	1:P:723:ARG:HD3	1.93	0.51
1:P:128:PRO:O	1:P:129:TYR:HB2	2.10	0.51
1:P:732:ILE:HG23	1:P:747:LEU:CD1	1.05	0.51
4:1:45:VAL:CG2	4:Z:148:THR:OG1	2.59	0.51
1:A:41:VAL:HG13	1:A:42:HIS:N	2.25	0.51
1:A:418:THR:O	1:A:422:VAL:HG23	2.11	0.51
2:B:137:TRP:CA	2:B:145:ALA:CB	2.82	0.51
2:E:121:LEU:CA	2:E:128:PHE:CG	2.89	0.51
1:G:248:MLY:N	1:G:463:ASP:O	2.44	0.51
1:G:267:THR:HG21	1:G:438:PHE:HE2	1.76	0.51
1:G:400:ALA:HB1	1:G:606:THR:HG22	1.93	0.51
1:G:411:GLU:H	4:V:333:PRO:CG	2.24	0.51
1:G:631:GLU:C	4:V:25:ASP:HB2	2.31	0.51
1:G:675:ILE:CG2	1:G:676:ILE:N	2.74	0.51
1:P:135:TYR:HD2	1:P:191:ARG:CD	2.23	0.51
1:P:418:THR:O	1:P:422:VAL:HG23	2.11	0.51
1:A:128:PRO:O	1:A:129:TYR:HB2	2.09	0.51
1:A:400:ALA:HB1	1:A:606:THR:HG22	1.92	0.51
2:B:129:THR:O	2:B:133:ILE:HG13	2.09	0.51
1:D:135:TYR:HD2	1:D:191:ARG:CD	2.23	0.51
1:D:237:THR:O	1:D:240:ASN:O	2.29	0.51
1:D:400:ALA:HB1	1:D:606:THR:HG22	1.92	0.51
1:D:732:ILE:HD12	1:D:782:MLY:CH1	2.41	0.51
1:G:38:VAL:CG1	1:G:39:PHE:N	2.74	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:742:LYS:O	1:G:745:GLU:HB2	2.10	0.51
1:G:797:PHE:CD2	3:I:126:LEU:HD13	2.46	0.51
1:J:41:VAL:HG21	1:J:76:GLN:HG3	1.93	0.51
4:0:110:LEU:O	4:1:195:GLU:CG	2.59	0.51
1:A:675:ILE:CG2	1:A:676:ILE:N	2.74	0.51
1:A:752:ASP:O	1:A:778:MET:CB	2.58	0.51
1:D:13:ALA:C	1:D:15:PRO:HD2	2.31	0.51
1:G:813:ILE:HG23	2:H:128:PHE:CE1	2.26	0.51
1:G:817:GLN:HE21	2:H:127:ARG:HB2	1.71	0.51
1:G:818:TYR:HE1	2:H:127:ARG:NH2	1.95	0.51
1:G:831:TRP:CZ3	2:H:34:ILE:HD13	2.46	0.51
1:J:202:SER:HB2	1:J:207:LYS:NZ	2.26	0.51
1:J:732:ILE:O	1:J:736:GLN:HG3	2.11	0.51
1:J:795:ARG:CG	3:L:116:GLU:OE2	2.58	0.51
2:K:114:LYS:N	2:K:146:GLY:O	2.40	0.51
1:P:278:GLN:HG3	1:P:318:GLY:H	1.75	0.51
1:P:400:ALA:HB1	1:P:606:THR:HG22	1.93	0.51
1:P:631:GLU:C	4:0:25:ASP:HB2	2.31	0.51
4:0:287:ILE:HG12	4:2:203:THR:HB	1.93	0.51
1:A:631:GLU:C	4:8:25:ASP:HB2	2.32	0.51
1:A:646:PHE:CE2	1:A:652:LEU:CD2	2.87	0.51
1:D:202:SER:HB2	1:D:207:LYS:NZ	2.26	0.51
1:D:212:GLY:O	1:D:213:LYS:HB2	2.10	0.51
1:D:530:MET:HG2	4:9:354:GLN:HB2	0.57	0.51
1:D:631:GLU:C	4:9:25:ASP:HB2	2.31	0.51
1:D:687:GLU:O	1:D:691:VAL:HG23	2.11	0.51
1:G:84:MLY:CH2	1:G:724:TYR:CE2	2.87	0.51
1:G:212:GLY:O	1:G:213:LYS:HB2	2.11	0.51
1:G:429:LEU:O	1:G:433:VAL:HG23	2.11	0.51
1:G:725:ARG:O	1:G:729:ALA:HA	2.10	0.51
1:J:169:ASP:N	1:J:169:ASP:OD1	2.44	0.51
1:J:642:LYS:HB2	4:W:24:ASP:O	1.88	0.51
1:P:592:ILE:HG22	1:P:592:ILE:O	2.10	0.51
1:P:725:ARG:O	1:P:729:ALA:HA	2.10	0.51
4:0:167:GLU:CD	4:2:42:GLY:CA	2.43	0.51
4:X:324:THR:HG21	4:Z:247:VAL:HG23	1.89	0.51
1:A:197:ALA:O	1:A:201:ALA:HB2	2.10	0.50
1:A:311:ASP:HB2	1:A:312:TYR:CE1	2.46	0.50
1:A:687:GLU:O	1:A:691:VAL:HG23	2.11	0.50
1:D:732:ILE:H	1:D:733:PRO:CD	2.22	0.50
1:D:733:PRO:CA	1:D:737:PHE:CE1	2.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:793:ARG:NH2	3:F:147:MET:HE1	2.26	0.50
1:G:218:LEU:N	1:G:221:GLN:CG	2.74	0.50
1:G:739:ASP:CB	1:G:742:LYS:CB	2.81	0.50
1:G:838:ILE:HD13	2:H:33:VAL:HG11	1.93	0.50
3:I:100:GLY:O	3:I:138:ASN:HA	2.11	0.50
1:J:93:MET:HA	1:J:714:ARG:N	2.25	0.50
1:J:109:ARG:HD3	1:J:117:THR:HB	1.92	0.50
1:J:278:GLN:HG3	1:J:318:GLY:H	1.75	0.50
1:J:408:VAL:CG1	4:W:332:PRO:HB3	2.40	0.50
1:J:742:LYS:O	1:J:745:GLU:HB2	2.10	0.50
1:P:237:THR:O	1:P:240:ASN:O	2.29	0.50
1:P:408:VAL:CG1	4:0:332:PRO:HB3	2.40	0.50
1:P:578:HIS:O	1:P:579:PHE:HB3	2.11	0.50
1:P:759:ALA:O	1:P:766:PHE:N	2.32	0.50
3:R:100:GLY:O	3:R:138:ASN:HA	2.11	0.50
1:A:640:LYS:CA	1:A:645:SER:OG	2.58	0.50
1:D:38:VAL:CG1	1:D:39:PHE:N	2.74	0.50
1:D:217:THR:C	1:D:221:GLN:NE2	2.62	0.50
1:D:218:LEU:N	1:D:221:GLN:CG	2.74	0.50
1:D:767:PHE:O	1:D:771:LEU:CD2	2.60	0.50
2:E:117:LEU:HG	2:E:147:ASN:HB3	1.93	0.50
1:G:28:GLN:CB	1:G:723:ARG:HH22	2.24	0.50
1:G:202:SER:HB2	1:G:207:LYS:NZ	2.26	0.50
1:G:237:THR:O	1:G:240:ASN:O	2.29	0.50
1:G:795:ARG:HG3	3:I:116:GLU:OE2	2.10	0.50
1:J:218:LEU:N	1:J:221:GLN:CG	2.74	0.50
1:J:629:GLU:CB	1:J:645:SER:N	2.73	0.50
1:J:646:PHE:HE2	1:J:652:LEU:CG	2.25	0.50
1:J:829:TRP:CH2	2:K:84:PHE:CE1	2.98	0.50
1:P:41:VAL:HG13	1:P:42:HIS:N	2.25	0.50
1:P:732:ILE:H	1:P:733:PRO:CD	2.23	0.50
1:A:13:ALA:C	1:A:15:PRO:HD2	2.31	0.50
1:A:169:ASP:OD1	1:A:169:ASP:N	2.44	0.50
1:A:707:CYS:SG	1:A:714:ARG:CZ	2.99	0.50
1:A:823:PHE:HE1	2:B:161:GLU:N	2.10	0.50
2:B:117:LEU:HG	2:B:147:ASN:HB3	1.93	0.50
1:D:169:ASP:OD1	1:D:169:ASP:N	2.44	0.50
1:D:278:GLN:HG3	1:D:318:GLY:H	1.75	0.50
1:D:546:THR:CG2	1:D:548:THR:HB	2.41	0.50
1:D:559:LEU:HD23	1:D:559:LEU:C	2.31	0.50
1:D:793:ARG:NH2	3:F:87:PHE:HE1	2.09	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:640:LYS:CA	1:G:645:SER:OG	2.58	0.50
1:J:237:THR:O	1:J:240:ASN:O	2.29	0.50
1:J:311:ASP:HB2	1:J:312:TYR:CE1	2.46	0.50
1:J:346:ASP:O	1:J:349:THR:HB	2.11	0.50
1:J:411:GLU:H	4:W:333:PRO:CG	2.25	0.50
1:P:295:MLY:CG	1:P:332:MET:HE1	2.42	0.50
1:P:429:LEU:O	1:P:433:VAL:HG23	2.12	0.50
1:P:649:VAL:HA	1:P:649:VAL:HG23	1.83	0.50
1:P:799:MET:HB3	3:R:35:ARG:CB	2.41	0.50
4:W:285:CYS:O	4:Y:202:THR:HG22	2.11	0.50
1:A:41:VAL:HG21	1:A:76:GLN:HG3	1.92	0.50
1:A:629:GLU:CB	1:A:645:SER:N	2.74	0.50
1:D:418:THR:O	1:D:422:VAL:HG23	2.11	0.50
1:D:578:HIS:O	1:D:579:PHE:HB3	2.11	0.50
1:G:135:TYR:HD2	1:G:191:ARG:CD	2.23	0.50
1:G:538:GLU:OE1	4:V:351:THR:HB	2.12	0.50
1:G:733:PRO:CA	1:G:737:PHE:CE1	2.95	0.50
1:G:753:VAL:O	1:G:779:ARG:HD3	2.04	0.50
1:G:817:GLN:HB3	2:H:127:ARG:HH11	1.77	0.50
2:H:112:ILE:HG23	2:H:147:ASN:HB3	1.93	0.50
1:J:154:HIS:CD2	1:J:155:ILE:H	2.30	0.50
3:L:100:GLY:O	3:L:138:ASN:HA	2.11	0.50
1:P:41:VAL:HG21	1:P:76:GLN:HG3	1.93	0.50
1:P:154:HIS:CD2	1:P:155:ILE:H	2.30	0.50
1:P:202:SER:HB2	1:P:207:LYS:NZ	2.26	0.50
1:P:546:THR:CG2	1:P:548:THR:HB	2.41	0.50
1:P:632:GLY:HA3	1:P:643:GLY:N	2.17	0.50
1:A:267:THR:HG21	1:A:438:PHE:HE2	1.76	0.50
1:A:556:ASP:CA	4:V:49:GLN:O	2.52	0.50
1:A:813:ILE:HD13	2:B:128:PHE:CE1	2.47	0.50
1:D:154:HIS:CD2	1:D:155:ILE:H	2.30	0.50
1:D:311:ASP:HB2	1:D:312:TYR:CE1	2.46	0.50
1:D:346:ASP:O	1:D:349:THR:HB	2.11	0.50
1:D:429:LEU:O	1:D:433:VAL:HG23	2.11	0.50
1:G:592:ILE:HG22	1:G:592:ILE:O	2.10	0.50
1:G:687:GLU:O	1:G:691:VAL:HG23	2.11	0.50
1:J:400:ALA:HB1	1:J:606:THR:HG22	1.93	0.50
1:J:631:GLU:C	4:W:25:ASP:HB2	2.31	0.50
1:P:506:GLU:CG	1:P:760:PHE:H	2.24	0.50
1:P:538:GLU:HA	4:0:349:LEU:CB	2.40	0.50
1:P:629:GLU:CB	1:P:645:SER:N	2.74	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:642:LYS:CG	4:0:22:ALA:HA	2.37	0.50
1:P:687:GLU:O	1:P:691:VAL:HG23	2.11	0.50
4:1:244:ASP:CG	4:Z:322:PRO:HB3	2.31	0.50
1:A:202:SER:HB2	1:A:207:LYS:NZ	2.26	0.50
1:A:218:LEU:N	1:A:221:GLN:CG	2.74	0.50
1:D:629:GLU:CA	1:D:643:GLY:C	2.73	0.50
1:D:640:LYS:CA	1:D:645:SER:OG	2.58	0.50
1:D:646:PHE:HE2	1:D:652:LEU:CG	2.25	0.50
1:D:715:VAL:O	1:D:764:MLY:HB3	2.12	0.50
1:G:732:ILE:O	1:G:736:GLN:HG3	2.12	0.50
1:J:217:THR:C	1:J:221:GLN:NE2	2.62	0.50
1:J:429:LEU:O	1:J:433:VAL:HG23	2.12	0.50
1:P:169:ASP:N	1:P:169:ASP:OD1	2.44	0.50
1:P:411:GLU:H	4:0:333:PRO:CG	2.24	0.50
1:P:530:MET:HG2	4:0:354:GLN:HB2	0.57	0.50
1:A:471:ASP:HB3	1:A:573:GLY:O	2.12	0.50
1:A:601:ASP:N	1:A:602:PRO:CD	2.75	0.50
1:A:839:MLY:HB2	1:A:840:PRO:HD3	1.94	0.50
1:D:539:GLU:OE2	4:W:45:VAL:C	2.47	0.50
1:D:632:GLY:HA3	1:D:643:GLY:N	2.17	0.50
1:D:713:SER:N	1:D:771:LEU:HD23	1.86	0.50
1:D:747:LEU:CD2	1:D:782:MLY:HH11	2.39	0.50
2:E:163:ALA:C	2:K:22:THR:OG1	2.50	0.50
1:G:346:ASP:O	1:G:349:THR:HB	2.11	0.50
1:G:838:ILE:HD13	2:H:33:VAL:CG1	2.41	0.50
1:J:559:LEU:HD23	1:J:559:LEU:C	2.31	0.50
1:J:733:PRO:CA	1:J:737:PHE:CE1	2.95	0.50
1:P:218:LEU:N	1:P:221:GLN:CG	2.74	0.50
1:P:730:SER:O	3:R:93:VAL:CG2	2.60	0.50
1:P:733:PRO:CA	1:P:737:PHE:CE1	2.94	0.50
4:0:287:ILE:HG22	4:2:203:THR:CG2	2.28	0.50
1:A:154:HIS:CD2	1:A:155:ILE:H	2.30	0.50
1:A:237:THR:O	1:A:240:ASN:O	2.29	0.50
1:A:502:GLU:CD	1:A:764:MLY:N	2.64	0.50
1:D:291:ILE:HA	1:D:331:LEU:CD1	2.39	0.50
1:D:471:ASP:HB3	1:D:573:GLY:O	2.12	0.50
1:D:538:GLU:OE1	4:9:351:THR:HB	2.12	0.50
1:D:762:HIS:CD2	1:D:762:HIS:N	2.78	0.50
1:G:291:ILE:HA	1:G:331:LEU:CD1	2.39	0.50
1:G:757:GLN:HB2	1:G:776:GLU:CG	2.42	0.50
1:G:798:LEU:HD22	3:I:118:MET:CG	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:38:VAL:CG1	1:J:39:PHE:N	2.74	0.50
1:J:546:THR:CG2	1:J:548:THR:HB	2.41	0.50
1:J:632:GLY:HA3	1:J:643:GLY:N	2.17	0.50
1:J:642:LYS:CG	4:W:22:ALA:HA	2.37	0.50
1:J:769:ALA:HB2	1:J:770:GLY:HA2	1.88	0.50
1:J:819:ASN:CB	2:K:90:GLY:O	2.57	0.50
1:P:646:PHE:HE2	1:P:652:LEU:CG	2.25	0.50
1:P:817:GLN:HG3	2:Q:128:PHE:CZ	2.47	0.50
1:P:830:PRO:CB	2:Q:67:MET:CE	2.90	0.50
2:Q:114:LYS:N	2:Q:146:GLY:O	2.40	0.50
4:0:202:THR:N	4:Y:287:ILE:H	2.10	0.50
4:0:243:PRO:CD	4:Y:291:LYS:HE3	2.42	0.50
4:1:287:ILE:HD13	4:3:203:THR:CA	2.41	0.50
4:1:288:ASP:CB	4:3:203:THR:CG2	2.87	0.50
1:A:795:ARG:NH2	3:C:116:GLU:CB	2.51	0.50
2:B:149:ASP:CG	2:B:150:TYR:N	2.49	0.50
1:D:109:ARG:O	1:D:114:MET:N	2.37	0.50
1:D:800:ARG:HB3	3:F:149:VAL:HG13	1.93	0.50
1:D:839:MLY:N	1:D:840:PRO:CD	2.75	0.50
1:G:471:ASP:HB3	1:G:573:GLY:O	2.12	0.50
1:G:715:VAL:O	1:G:764:MLY:HB3	2.12	0.50
1:G:739:ASP:OD1	1:G:740:SER:N	2.45	0.50
1:J:214:MET:HA	1:J:340:ILE:CD1	2.41	0.50
1:J:310:TYR:CE2	1:J:320:ILE:CD1	2.94	0.50
1:P:214:MET:HA	1:P:340:ILE:CD1	2.41	0.50
1:P:795:ARG:CB	3:R:42:THR:HA	2.42	0.50
1:P:799:MET:CB	3:R:35:ARG:HB3	2.42	0.50
2:Q:140:PHE:HB3	2:Q:144:VAL:HG12	1.94	0.50
4:0:287:ILE:CB	4:2:203:THR:CG2	2.90	0.50
4:7:318:THR:HA	4:7:327:ILE:HG12	1.94	0.50
4:8:70:PRO:HG3	4:8:81:ASP:HB3	1.94	0.50
1:A:409:GLY:N	1:A:636:LYS:CD	2.70	0.49
1:A:411:GLU:H	4:8:333:PRO:CG	2.24	0.49
1:A:820:VAL:HG21	2:B:136:MET:HE3	1.94	0.49
1:D:408:VAL:CG1	4:9:332:PRO:HB3	2.41	0.49
2:E:162:ASP:O	2:K:21:GLU:HB3	2.10	0.49
1:G:218:LEU:CD2	1:G:222:ILE:CG1	2.86	0.49
1:J:94:MET:O	1:J:713:SER:HA	2.12	0.49
1:J:251:ARG:O	1:J:263:ALA:HA	2.12	0.49
1:P:38:VAL:CG1	1:P:39:PHE:N	2.74	0.49
1:P:547:ASP:O	1:P:550:PHE:HB3	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:93:PRO:O	2:Q:97:ILE:HG13	2.12	0.49
4:1:324:THR:CB	4:3:244:ASP:CA	2.82	0.49
4:4:70:PRO:HG3	4:4:81:ASP:HB3	1.94	0.49
4:9:318:THR:HA	4:9:327:ILE:HG12	1.94	0.49
4:V:318:THR:HA	4:V:327:ILE:HG12	1.94	0.49
1:A:93:MET:CE	1:A:716:LEU:H	2.25	0.49
1:A:547:ASP:O	1:A:550:PHE:HB3	2.12	0.49
1:A:553:MLY:HG3	4:V:44:MET:O	2.07	0.49
1:A:733:PRO:CA	1:A:737:PHE:CE1	2.95	0.49
1:A:739:ASP:OD1	1:A:740:SER:N	2.45	0.49
1:A:839:MLY:N	1:A:840:PRO:CD	2.75	0.49
1:D:251:ARG:O	1:D:263:ALA:HA	2.12	0.49
1:D:332:MET:O	1:D:336:SER:OG	2.27	0.49
1:D:601:ASP:N	1:D:602:PRO:CD	2.75	0.49
1:D:732:ILE:O	1:D:736:GLN:HG3	2.12	0.49
2:E:140:PHE:HB3	2:E:144:VAL:HG12	1.94	0.49
1:G:506:GLU:OE2	1:G:760:PHE:C	2.50	0.49
1:G:646:PHE:CE2	1:G:652:LEU:CD2	2.87	0.49
1:G:821:ARG:HH21	2:H:127:ARG:HG2	1.64	0.49
1:J:291:ILE:HA	1:J:331:LEU:CD1	2.39	0.49
1:J:642:LYS:HA	4:W:22:ALA:C	2.33	0.49
1:J:675:ILE:CG2	1:J:676:ILE:N	2.74	0.49
1:J:797:PHE:CE1	3:L:146:ILE:HD13	2.38	0.49
1:J:817:GLN:NE2	2:K:127:ARG:HB2	2.27	0.49
2:K:114:LYS:HG3	2:K:137:TRP:CZ2	2.48	0.49
1:P:251:ARG:O	1:P:263:ALA:HA	2.12	0.49
1:P:346:ASP:O	1:P:349:THR:HB	2.11	0.49
1:P:732:ILE:O	1:P:736:GLN:HG3	2.11	0.49
4:0:318:THR:HA	4:0:327:ILE:HG12	1.94	0.49
4:3:287:ILE:CB	4:5:204:ALA:H	2.24	0.49
4:V:322:PRO:HB3	4:X:246:GLN:HG2	1.93	0.49
4:W:318:THR:HA	4:W:327:ILE:HG12	1.94	0.49
4:X:287:ILE:CG2	4:Z:201:VAL:CG2	2.85	0.49
2:B:114:LYS:HG3	2:B:137:TRP:CZ2	2.48	0.49
1:D:739:ASP:OD1	1:D:740:SER:N	2.45	0.49
1:G:530:MET:HA	4:V:354:GLN:CD	2.11	0.49
1:G:553:MLY:O	4:X:46:GLY:HA3	2.12	0.49
1:G:795:ARG:N	3:I:118:MET:HE3	2.28	0.49
1:G:839:MLY:HB2	1:G:840:PRO:HD3	1.94	0.49
2:H:93:PRO:O	2:H:97:ILE:HG13	2.12	0.49
1:J:192:VAL:O	1:J:195:TYR:HB3	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:471:ASP:HB3	1:J:573:GLY:O	2.12	0.49
1:J:543:PRO:CD	4:W:146:GLY:O	2.61	0.49
1:J:544:LYS:HD2	4:W:147:ARG:CB	2.36	0.49
1:J:715:VAL:O	1:J:764:MLY:HB3	2.12	0.49
1:J:762:HIS:CD2	1:J:762:HIS:N	2.78	0.49
1:J:839:MLY:N	1:J:840:PRO:CD	2.75	0.49
1:J:839:MLY:HB2	1:J:840:PRO:HD3	1.94	0.49
2:K:112:ILE:HG23	2:K:147:ASN:HB3	1.93	0.49
1:P:192:VAL:O	1:P:195:TYR:HB3	2.13	0.49
1:P:503:TYR:CZ	1:P:711:PHE:CE2	2.99	0.49
1:P:739:ASP:CB	1:P:742:LYS:CB	2.81	0.49
1:P:756:THR:O	1:P:758:TYR:N	2.45	0.49
1:P:789:ALA:HA	3:R:81:GLN:CD	2.32	0.49
4:0:166:TYR:CZ	4:2:64:ILE:HG22	2.42	0.49
4:3:318:THR:HA	4:3:327:ILE:HG12	1.94	0.49
4:8:318:THR:HA	4:8:327:ILE:HG12	1.94	0.49
4:X:70:PRO:HG3	4:X:81:ASP:HB3	1.94	0.49
4:X:318:THR:HA	4:X:327:ILE:HG12	1.94	0.49
1:A:51:THR:C	1:A:62:VAL:HG13	2.32	0.49
1:A:291:ILE:HA	1:A:331:LEU:CD1	2.39	0.49
1:A:538:GLU:OE1	4:8:351:THR:HB	2.12	0.49
1:A:543:PRO:CD	4:8:146:GLY:O	2.61	0.49
1:A:576:GLU:CG	1:A:577:ALA:N	2.43	0.49
1:A:798:LEU:HD21	3:C:126:LEU:CD1	2.39	0.49
1:A:836:PHE:CZ	2:B:159:HIS:HA	2.48	0.49
2:B:140:PHE:HB3	2:B:144:VAL:HG12	1.94	0.49
1:D:214:MET:HA	1:D:340:ILE:CD1	2.42	0.49
1:D:251:ARG:HB2	1:D:264:ASP:HB3	1.94	0.49
1:D:642:LYS:CG	4:9:22:ALA:HA	2.37	0.49
1:G:169:ASP:N	1:G:169:ASP:OD1	2.44	0.49
1:G:290:GLN:HG2	1:G:331:LEU:CA	2.43	0.49
1:G:601:ASP:N	1:G:602:PRO:CD	2.75	0.49
1:G:733:PRO:O	1:G:737:PHE:CE1	2.53	0.49
1:J:538:GLU:OE1	4:W:351:THR:HB	2.12	0.49
1:J:595:TRP:N	1:J:595:TRP:CD1	2.80	0.49
1:P:20:SER:HB3	1:P:23:GLU:OE1	2.13	0.49
1:P:103:LEU:C	1:P:103:LEU:HD12	2.33	0.49
1:P:206:LYS:HD2	1:P:217:THR:CG2	2.17	0.49
1:P:291:ILE:HA	1:P:331:LEU:CD1	2.39	0.49
1:P:629:GLU:CA	1:P:643:GLY:C	2.73	0.49
1:P:797:PHE:CE2	3:R:126:LEU:HD22	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:1:318:THR:HA	4:1:327:ILE:HG12	1.94	0.49
4:2:318:THR:HA	4:2:327:ILE:HG12	1.94	0.49
4:3:70:PRO:HG3	4:3:81:ASP:HB3	1.94	0.49
4:8:124:PHE:CZ	4:8:132:MET:HG3	2.48	0.49
4:V:70:PRO:HG3	4:V:81:ASP:HB3	1.94	0.49
4:Y:318:THR:HA	4:Y:327:ILE:HG12	1.94	0.49
1:A:20:SER:HB3	1:A:23:GLU:OE1	2.13	0.49
1:A:505:MLY:CA	1:A:762:HIS:NE2	2.74	0.49
1:A:642:LYS:HG2	4:8:21:PHE:C	2.30	0.49
1:A:756:THR:O	1:A:758:TYR:N	2.46	0.49
1:D:192:VAL:O	1:D:195:TYR:HB3	2.13	0.49
1:D:310:TYR:CE2	1:D:320:ILE:CD1	2.94	0.49
2:E:128:PHE:O	2:E:133:ILE:HD11	2.13	0.49
1:G:543:PRO:CD	4:V:146:GLY:O	2.61	0.49
1:G:804:ARG:NH2	3:I:149:VAL:HG23	2.27	0.49
1:J:97:LEU:HD13	1:J:97:LEU:N	2.28	0.49
1:J:601:ASP:N	1:J:602:PRO:CD	2.75	0.49
1:J:739:ASP:OD1	1:J:740:SER:N	2.45	0.49
1:J:818:TYR:CZ	2:K:127:ARG:NH1	2.81	0.49
1:P:51:THR:C	1:P:62:VAL:HG13	2.32	0.49
1:P:109:ARG:HD3	1:P:117:THR:HB	1.92	0.49
1:P:128:PRO:O	1:P:683:PRO:HB3	2.12	0.49
1:P:530:MET:CE	4:0:354:GLN:HG3	2.35	0.49
1:P:795:ARG:CD	3:R:35:ARG:NH1	2.74	0.49
1:P:839:MLY:N	1:P:840:PRO:CD	2.75	0.49
4:1:124:PHE:CZ	4:1:132:MET:HG3	2.48	0.49
4:5:318:THR:HA	4:5:327:ILE:HG12	1.94	0.49
4:V:124:PHE:CZ	4:V:132:MET:HG3	2.48	0.49
4:Z:318:THR:HA	4:Z:327:ILE:HG12	1.95	0.49
1:A:173:GLN:OE1	1:A:668:HIS:HB3	2.13	0.49
1:A:192:VAL:O	1:A:195:TYR:HB3	2.13	0.49
1:A:278:GLN:HG3	1:A:318:GLY:H	1.75	0.49
1:A:346:ASP:O	1:A:349:THR:HB	2.11	0.49
1:A:715:VAL:HG12	1:A:716:LEU:O	2.13	0.49
1:A:732:ILE:O	1:A:736:GLN:HG3	2.11	0.49
2:B:121:LEU:HA	2:B:128:PHE:CD2	2.46	0.49
1:D:173:GLN:OE1	1:D:668:HIS:HB3	2.13	0.49
1:D:543:PRO:CD	4:9:146:GLY:O	2.61	0.49
1:D:793:ARG:O	1:D:797:PHE:N	2.39	0.49
1:G:278:GLN:HG3	1:G:318:GLY:H	1.75	0.49
1:G:642:LYS:HG2	4:V:21:PHE:C	2.30	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:642:LYS:CB	4:V:24:ASP:O	2.60	0.49
1:J:20:SER:HB3	1:J:23:GLU:OE1	2.13	0.49
1:J:128:PRO:O	1:J:683:PRO:HB3	2.12	0.49
1:J:237:THR:HG22	1:J:238:VAL:N	2.28	0.49
2:K:117:LEU:HG	2:K:147:ASN:HB3	1.93	0.49
1:P:237:THR:HG22	1:P:238:VAL:N	2.28	0.49
1:P:290:GLN:HG2	1:P:331:LEU:CA	2.43	0.49
1:P:311:ASP:HB2	1:P:312:TYR:CE1	2.46	0.49
1:P:312:TYR:N	1:P:312:TYR:CD1	2.81	0.49
1:P:601:ASP:N	1:P:602:PRO:CD	2.75	0.49
1:P:739:ASP:OD1	1:P:740:SER:N	2.45	0.49
1:P:832:MET:SD	2:Q:84:PHE:HE2	2.36	0.49
1:P:839:MLY:HH13	2:Q:159:HIS:CD2	2.47	0.49
4:2:70:PRO:HG3	4:2:81:ASP:HB3	1.94	0.49
4:2:124:PHE:CZ	4:2:132:MET:HG3	2.48	0.49
4:4:318:THR:HA	4:4:327:ILE:HG12	1.94	0.49
4:X:124:PHE:CZ	4:X:132:MET:HG3	2.48	0.49
4:Z:70:PRO:HG3	4:Z:81:ASP:HB3	1.94	0.49
4:Z:124:PHE:CZ	4:Z:132:MET:HG3	2.48	0.49
1:A:103:LEU:C	1:A:103:LEU:HD12	2.33	0.49
1:A:312:TYR:N	1:A:312:TYR:CD1	2.81	0.49
1:A:720:PHE:CD2	1:A:744:SER:HB3	2.48	0.49
2:B:93:PRO:O	2:B:97:ILE:HG13	2.13	0.49
1:D:290:GLN:HG2	1:D:331:LEU:CA	2.43	0.49
1:D:292:MET:HE1	1:D:309:PRO:HD3	1.95	0.49
1:D:538:GLU:HA	4:9:351:THR:H	1.77	0.49
1:D:642:LYS:HA	4:9:22:ALA:C	2.33	0.49
1:D:839:MLY:HB2	1:D:840:PRO:HD3	1.94	0.49
2:E:114:LYS:HG3	2:E:137:TRP:CZ2	2.48	0.49
1:G:839:MLY:N	1:G:840:PRO:CD	2.75	0.49
1:J:51:THR:C	1:J:62:VAL:HG13	2.32	0.49
1:P:314:TYR:CZ	1:P:362:GLY:HA2	2.48	0.49
4:0:243:PRO:HB2	4:Y:291:LYS:CE	2.43	0.49
4:5:70:PRO:HG3	4:5:81:ASP:HB3	1.94	0.49
4:V:198:TYR:CZ	4:V:248:ILE:HG13	2.48	0.49
4:W:124:PHE:CZ	4:W:132:MET:HG3	2.48	0.49
1:A:128:PRO:O	1:A:683:PRO:HB3	2.12	0.49
1:A:168:THR:HG22	1:A:169:ASP:OD1	2.12	0.49
1:A:310:TYR:CE2	1:A:320:ILE:CD1	2.94	0.49
1:A:429:LEU:O	1:A:433:VAL:HG23	2.12	0.49
1:A:739:ASP:CB	1:A:742:LYS:CB	2.81	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:752:ASP:O	1:A:778:MET:SD	2.71	0.49
2:B:112:ILE:HG23	2:B:147:ASN:HB3	1.93	0.49
1:D:64:THR:CG2	1:D:65:GLU:N	2.75	0.49
1:D:128:PRO:O	1:D:683:PRO:HB3	2.12	0.49
1:D:713:SER:H	1:D:771:LEU:HD23	1.24	0.49
1:D:756:THR:O	1:D:758:TYR:N	2.45	0.49
1:G:84:MLY:CH2	1:G:720:PHE:HA	2.37	0.49
1:G:128:PRO:O	1:G:683:PRO:HB3	2.12	0.49
1:G:295:MLY:HG3	1:G:332:MET:HE2	1.93	0.49
1:G:547:ASP:O	1:G:550:PHE:HB3	2.12	0.49
1:G:642:LYS:HA	4:V:22:ALA:C	2.33	0.49
1:G:732:ILE:H	1:G:733:PRO:CD	2.22	0.49
2:H:114:LYS:HG3	2:H:137:TRP:CZ2	2.48	0.49
1:J:251:ARG:HB2	1:J:264:ASP:HB3	1.95	0.49
1:J:290:GLN:HG2	1:J:331:LEU:CA	2.43	0.49
1:J:756:THR:O	1:J:758:TYR:N	2.46	0.49
1:J:819:ASN:OD1	2:K:92:ASP:CA	2.57	0.49
1:J:830:PRO:CB	2:K:67:MET:HE1	2.42	0.49
2:K:128:PHE:O	2:K:133:ILE:HD11	2.13	0.49
1:P:543:PRO:CD	4:0:146:GLY:O	2.61	0.49
1:P:732:ILE:H	1:P:733:PRO:HD2	1.74	0.49
2:Q:128:PHE:O	2:Q:133:ILE:HD11	2.13	0.49
4:4:213:LYS:O	4:4:217:CYS:HB2	2.13	0.49
4:5:198:TYR:CZ	4:5:248:ILE:HG13	2.48	0.49
4:Z:299:MET:HE2	4:Z:331:ALA:HB2	1.93	0.49
1:A:218:LEU:HD22	1:A:222:ILE:HG13	1.94	0.49
1:A:251:ARG:O	1:A:263:ALA:HA	2.12	0.49
1:A:715:VAL:O	1:A:764:MLY:HB3	2.12	0.49
1:A:723:ARG:HH11	1:A:723:ARG:HG3	1.78	0.49
1:A:800:ARG:HH21	3:C:40:ASN:CG	1.99	0.49
1:A:813:ILE:CG2	2:B:127:ARG:CB	2.90	0.49
1:D:51:THR:C	1:D:62:VAL:HG13	2.32	0.49
1:D:237:THR:HG22	1:D:238:VAL:N	2.28	0.49
1:D:267:THR:HG21	1:D:438:PHE:HE2	1.76	0.49
1:G:51:THR:C	1:G:62:VAL:HG13	2.32	0.49
1:G:154:HIS:CD2	1:G:155:ILE:H	2.30	0.49
1:G:168:THR:HG22	1:G:169:ASP:OD1	2.12	0.49
1:G:237:THR:HG22	1:G:238:VAL:N	2.28	0.49
1:G:632:GLY:HA3	1:G:643:GLY:N	2.17	0.49
1:G:635:GLY:HA3	4:V:334:GLU:CG	2.30	0.49
3:I:50:LEU:O	3:I:55:LYS:HB2	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:312:TYR:N	1:J:312:TYR:CD1	2.81	0.49
1:J:720:PHE:CD2	1:J:744:SER:HB3	2.48	0.49
1:P:173:GLN:OE1	1:P:668:HIS:HB3	2.13	0.49
1:P:538:GLU:OE1	4:0:351:THR:HB	2.12	0.49
1:P:800:ARG:CD	3:R:149:VAL:O	2.52	0.49
2:Q:117:LEU:HG	2:Q:147:ASN:HB3	1.93	0.49
4:9:124:PHE:CZ	4:9:132:MET:HG3	2.48	0.49
4:X:291:LYS:CG	4:Z:243:PRO:C	2.74	0.49
1:A:97:LEU:HD13	1:A:97:LEU:N	2.28	0.49
1:A:530:MET:HE3	4:8:354:GLN:CG	2.39	0.49
1:D:20:SER:HB3	1:D:23:GLU:OE1	2.13	0.49
1:D:547:ASP:O	1:D:550:PHE:HB3	2.12	0.49
2:E:121:LEU:HA	2:E:128:PHE:CD2	2.46	0.49
1:G:20:SER:HB3	1:G:23:GLU:OE1	2.13	0.49
1:G:84:MLY:CE	1:G:724:TYR:CE2	2.86	0.49
1:G:715:VAL:HG12	1:G:716:LEU:O	2.12	0.49
1:G:756:THR:O	1:G:758:TYR:N	2.45	0.49
1:J:173:GLN:OE1	1:J:668:HIS:HB3	2.13	0.49
1:J:506:GLU:HG3	1:J:760:PHE:O	2.13	0.49
1:J:553:MLY:CE	4:Y:45:VAL:CG1	2.78	0.49
1:J:715:VAL:HG12	1:J:716:LEU:O	2.12	0.49
1:J:797:PHE:HE2	3:L:126:LEU:HD13	1.76	0.49
1:J:831:TRP:CH2	2:K:47:LEU:HD23	2.37	0.49
1:P:793:ARG:HG2	3:R:87:PHE:CE2	2.47	0.49
4:3:198:TYR:CZ	4:3:248:ILE:HG13	2.48	0.49
4:8:198:TYR:CZ	4:8:248:ILE:HG13	2.48	0.49
4:X:198:TYR:CZ	4:X:248:ILE:HG13	2.48	0.49
1:D:544:LYS:HD2	4:9:147:ARG:CB	2.36	0.48
1:D:715:VAL:HG12	1:D:716:LEU:O	2.12	0.48
1:D:798:LEU:HD11	3:F:126:LEU:HD11	0.50	0.48
1:G:310:TYR:CE2	1:G:320:ILE:CD1	2.94	0.48
1:G:556:ASP:OD1	4:X:47:MET:CE	2.27	0.48
1:G:821:ARG:HH22	2:H:127:ARG:CD	2.22	0.48
1:J:64:THR:CG2	1:J:65:GLU:N	2.75	0.48
1:J:215:GLN:H	1:J:340:ILE:CD1	2.20	0.48
1:J:218:LEU:HA	1:J:221:GLN:HG3	1.71	0.48
1:P:97:LEU:HD21	1:P:712:PRO:HB2	1.85	0.48
1:P:97:LEU:HD13	1:P:97:LEU:N	2.28	0.48
1:P:471:ASP:HB3	1:P:573:GLY:O	2.12	0.48
1:P:715:VAL:O	1:P:764:MLY:HB3	2.12	0.48
4:1:70:PRO:HG3	4:1:81:ASP:HB3	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:1:148:THR:OG1	4:3:45:VAL:CG2	2.61	0.48
4:1:213:LYS:O	4:1:217:CYS:HB2	2.13	0.48
4:1:299:MET:HE2	4:1:331:ALA:HB2	1.94	0.48
4:2:322:PRO:C	4:4:244:ASP:HB2	2.33	0.48
4:3:124:PHE:CZ	4:3:132:MET:HG3	2.48	0.48
4:7:124:PHE:CZ	4:7:132:MET:HG3	2.48	0.48
1:A:642:LYS:HA	4:8:22:ALA:C	2.34	0.48
1:D:720:PHE:CD2	1:D:744:SER:HB3	2.48	0.48
1:G:41:VAL:CG1	1:G:42:HIS:N	2.75	0.48
1:G:248:MLY:HE2	1:G:250:ILE:HD11	1.95	0.48
1:J:405:ARG:HB2	1:J:414:THR:OG1	2.13	0.48
1:P:251:ARG:HB2	1:P:264:ASP:HB3	1.95	0.48
1:P:405:ARG:HB2	1:P:414:THR:OG1	2.13	0.48
2:Q:114:LYS:HG3	2:Q:137:TRP:CZ2	2.47	0.48
4:0:124:PHE:CZ	4:0:132:MET:HG3	2.48	0.48
4:7:70:PRO:HG3	4:7:81:ASP:HB3	1.94	0.48
4:7:198:TYR:CZ	4:7:248:ILE:HG13	2.48	0.48
4:Z:198:TYR:CZ	4:Z:248:ILE:HG13	2.48	0.48
1:A:149:GLN:HA	1:A:719:ASP:CG	2.33	0.48
1:A:499:GLU:OE1	1:A:499:GLU:HA	2.13	0.48
1:A:542:PHE:CD2	4:8:143:TYR:CD1	3.02	0.48
1:A:800:ARG:HH22	3:C:40:ASN:CG	1.85	0.48
1:D:292:MET:CE	1:D:309:PRO:HA	2.39	0.48
2:E:121:LEU:O	2:E:128:PHE:CG	2.61	0.48
3:F:50:LEU:O	3:F:55:LYS:HB2	2.13	0.48
1:G:173:GLN:OE1	1:G:668:HIS:HB3	2.13	0.48
1:G:192:VAL:O	1:G:195:TYR:HB3	2.13	0.48
1:G:405:ARG:HB2	1:G:414:THR:OG1	2.13	0.48
1:G:409:GLY:N	1:G:636:LYS:CD	2.71	0.48
1:G:538:GLU:HA	4:V:351:THR:H	1.77	0.48
1:J:538:GLU:HA	4:W:351:THR:H	1.77	0.48
1:P:64:THR:CG2	1:P:65:GLU:N	2.75	0.48
1:P:168:THR:HG22	1:P:169:ASP:OD1	2.12	0.48
1:P:267:THR:HG21	1:P:438:PHE:HE2	1.76	0.48
1:P:715:VAL:HG12	1:P:716:LEU:O	2.12	0.48
4:1:198:TYR:CZ	4:1:248:ILE:HG13	2.48	0.48
4:3:120:THR:HG21	4:3:370:VAL:HG11	1.95	0.48
4:3:287:ILE:HG22	4:5:204:ALA:H	1.74	0.48
4:4:198:TYR:CZ	4:4:248:ILE:HG13	2.48	0.48
4:5:213:LYS:O	4:5:217:CYS:HB2	2.13	0.48
4:9:70:PRO:HG3	4:9:81:ASP:HB3	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Y:124:PHE:CZ	4:Y:132:MET:HG3	2.48	0.48
1:A:290:GLN:HG2	1:A:331:LEU:CA	2.43	0.48
1:A:544:LYS:HD2	4:8:147:ARG:CB	2.36	0.48
1:A:664:LEU:HD12	1:A:664:LEU:HA	1.53	0.48
1:A:709:LYS:O	1:A:710:GLY:N	2.46	0.48
2:B:130:PRO:O	2:B:131:GLU:C	2.52	0.48
1:D:168:THR:HG22	1:D:169:ASP:OD1	2.12	0.48
1:D:404:PRO:HD2	1:D:415:MLY:O	2.13	0.48
1:D:507:GLY:HA3	1:D:762:HIS:CA	2.43	0.48
1:D:799:MET:HE3	3:F:32:ASP:HB3	1.76	0.48
1:G:134:VAL:C	1:G:136:ASN:H	2.16	0.48
1:G:617:MLY:O	1:G:620:ALA:HB3	2.14	0.48
1:G:835:PHE:CD1	2:H:30:ALA:HB2	2.48	0.48
2:H:128:PHE:O	2:H:133:ILE:HD11	2.13	0.48
1:J:267:THR:HG21	1:J:438:PHE:HE2	1.76	0.48
1:J:547:ASP:O	1:J:550:PHE:HB3	2.12	0.48
1:P:410:ASN:HD22	4:0:336:LYS:HE2	1.78	0.48
1:P:550:PHE:CE2	1:P:592:ILE:CG2	2.97	0.48
1:P:617:MLY:O	1:P:620:ALA:HB3	2.14	0.48
4:7:213:LYS:O	4:7:217:CYS:HB2	2.13	0.48
4:X:324:THR:CB	4:Z:247:VAL:H	2.23	0.48
1:A:237:THR:HG22	1:A:238:VAL:N	2.28	0.48
1:A:406:VAL:CG1	1:A:407:GLY:N	2.77	0.48
1:A:732:ILE:HG23	1:A:747:LEU:HD12	0.95	0.48
1:D:103:LEU:C	1:D:103:LEU:HD12	2.33	0.48
1:D:689:GLU:O	1:D:689:GLU:HG2	2.14	0.48
1:G:97:LEU:HD13	1:G:97:LEU:N	2.27	0.48
1:G:499:GLU:OE1	1:G:499:GLU:HA	2.13	0.48
1:G:765:VAL:CG1	1:G:766:PHE:N	2.77	0.48
1:G:792:ALA:N	3:I:42:THR:HG22	2.27	0.48
1:J:136:ASN:O	1:J:139:VAL:N	2.47	0.48
1:J:168:THR:HG22	1:J:169:ASP:OD1	2.12	0.48
1:J:410:ASN:HD22	4:W:336:LYS:HE2	1.78	0.48
1:J:550:PHE:CE2	1:J:592:ILE:CG2	2.97	0.48
2:K:130:PRO:O	2:K:131:GLU:C	2.52	0.48
3:L:50:LEU:O	3:L:55:LYS:HB2	2.13	0.48
1:P:642:LYS:CB	4:0:24:ASP:O	2.60	0.48
1:P:642:LYS:HA	4:0:22:ALA:C	2.33	0.48
1:P:720:PHE:CD2	1:P:744:SER:HB3	2.48	0.48
1:P:804:ARG:NH2	3:R:149:VAL:HA	2.28	0.48
1:P:831:TRP:CZ3	2:Q:34:ILE:CD1	2.82	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:9:198:TYR:CZ	4:9:248:ILE:HG13	2.48	0.48
4:W:70:PRO:HG3	4:W:81:ASP:HB3	1.94	0.48
4:W:325:MET:SD	4:Y:244:ASP:HB3	2.43	0.48
1:A:10:PHE:CD2	1:A:17:LEU:HD23	2.49	0.48
1:A:732:ILE:HG23	1:A:747:LEU:CD1	1.04	0.48
1:A:831:TRP:CE3	2:B:34:ILE:HG12	2.47	0.48
1:D:617:MLY:O	1:D:620:ALA:HB3	2.14	0.48
1:D:724:TYR:HD1	1:D:727:LEU:CD1	2.27	0.48
1:D:765:VAL:CG1	1:D:766:PHE:N	2.77	0.48
1:D:800:ARG:HB3	3:F:149:VAL:CG1	2.42	0.48
1:G:103:LEU:C	1:G:103:LEU:HD12	2.33	0.48
1:G:218:LEU:HD22	1:G:222:ILE:HG13	1.95	0.48
1:G:312:TYR:N	1:G:312:TYR:CD1	2.81	0.48
1:J:346:ASP:O	1:J:350:ALA:N	2.45	0.48
1:J:404:PRO:HD2	1:J:415:MLY:O	2.13	0.48
1:J:617:MLY:O	1:J:620:ALA:HB3	2.14	0.48
2:K:93:PRO:O	2:K:97:ILE:HG13	2.12	0.48
1:P:795:ARG:HB3	3:R:35:ARG:CZ	2.12	0.48
1:P:795:ARG:NE	3:R:42:THR:HB	2.28	0.48
4:0:250:ILE:HG23	4:0:253:GLU:HG2	1.96	0.48
4:0:288:ASP:OD1	4:2:62:ARG:CG	2.62	0.48
4:2:198:TYR:CZ	4:2:248:ILE:HG13	2.48	0.48
4:5:124:PHE:CZ	4:5:132:MET:HG3	2.48	0.48
4:W:250:ILE:HG23	4:W:253:GLU:HG2	1.96	0.48
4:Y:70:PRO:HG3	4:Y:81:ASP:HB3	1.94	0.48
1:A:64:THR:CG2	1:A:65:GLU:N	2.76	0.48
1:A:405:ARG:HB2	1:A:414:THR:OG1	2.13	0.48
1:A:707:CYS:HA	1:A:714:ARG:HH12	1.68	0.48
1:A:725:ARG:NE	1:A:733:PRO:CB	1.95	0.48
1:D:106:LEU:HD12	1:D:117:THR:HG21	1.96	0.48
1:D:405:ARG:HB2	1:D:414:THR:OG1	2.13	0.48
2:E:93:PRO:O	2:E:97:ILE:HG13	2.13	0.48
1:G:251:ARG:O	1:G:263:ALA:HA	2.12	0.48
2:H:117:LEU:HG	2:H:147:ASN:HB3	1.93	0.48
2:H:130:PRO:O	2:H:131:GLU:C	2.52	0.48
1:J:10:PHE:CD2	1:J:17:LEU:HD23	2.49	0.48
1:J:41:VAL:CG1	1:J:42:HIS:N	2.75	0.48
1:J:314:TYR:CZ	1:J:362:GLY:HA2	2.48	0.48
1:J:795:ARG:HD2	3:L:43:ASN:H	1.75	0.48
1:P:84:MLY:HD3	1:P:724:TYR:CZ	2.49	0.48
1:P:499:GLU:OE1	1:P:499:GLU:HA	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:546:THR:CG2	1:P:547:ASP:N	2.77	0.48
1:P:765:VAL:CG1	1:P:766:PHE:N	2.77	0.48
4:0:70:PRO:HG3	4:0:81:ASP:HB3	1.94	0.48
4:0:213:LYS:O	4:0:217:CYS:HB2	2.13	0.48
4:3:253:GLU:HA	4:3:256:ARG:CG	2.42	0.48
4:4:120:THR:HG21	4:4:370:VAL:HG11	1.95	0.48
4:4:124:PHE:CZ	4:4:132:MET:HG3	2.48	0.48
4:5:250:ILE:HG23	4:5:253:GLU:HG2	1.96	0.48
4:7:120:THR:HG21	4:7:370:VAL:HG11	1.95	0.48
4:7:250:ILE:HG23	4:7:253:GLU:HG2	1.96	0.48
4:9:250:ILE:HG23	4:9:253:GLU:HG2	1.96	0.48
4:V:120:THR:HG21	4:V:370:VAL:HG11	1.95	0.48
4:W:198:TYR:CZ	4:W:248:ILE:HG13	2.48	0.48
4:W:213:LYS:O	4:W:217:CYS:HB2	2.13	0.48
4:X:324:THR:CG2	4:Z:247:VAL:H	2.27	0.48
4:Z:213:LYS:O	4:Z:217:CYS:HB2	2.13	0.48
1:A:617:MLY:O	1:A:620:ALA:HB3	2.14	0.48
1:D:314:TYR:CZ	1:D:362:GLY:HA2	2.48	0.48
1:D:436:MLY:HE3	1:D:626:TYR:HE1	1.77	0.48
1:D:642:LYS:CB	4:9:24:ASP:O	2.59	0.48
1:D:725:ARG:NE	1:D:733:PRO:CB	1.95	0.48
2:E:163:ALA:C	2:K:21:GLU:HB3	2.33	0.48
1:G:64:THR:CG2	1:G:65:GLU:N	2.75	0.48
1:G:292:MET:HE1	1:G:309:PRO:HD3	1.96	0.48
1:G:408:VAL:HG22	1:G:636:LYS:HG2	1.51	0.48
1:G:796:GLY:N	3:I:35:ARG:NH2	2.62	0.48
1:P:404:PRO:HD2	1:P:415:MLY:O	2.13	0.48
1:P:595:TRP:CD1	1:P:595:TRP:N	2.80	0.48
2:Q:130:PRO:O	2:Q:131:GLU:C	2.52	0.48
4:2:213:LYS:O	4:2:217:CYS:HB2	2.13	0.48
4:3:250:ILE:HG23	4:3:253:GLU:HG2	1.96	0.48
4:4:250:ILE:HG23	4:4:253:GLU:HG2	1.96	0.48
4:8:120:THR:HG21	4:8:370:VAL:HG11	1.95	0.48
4:8:250:ILE:HG23	4:8:253:GLU:HG2	1.96	0.48
4:V:285:CYS:O	4:X:202:THR:HG22	2.14	0.48
4:Y:213:LYS:O	4:Y:217:CYS:HB2	2.13	0.48
4:Y:250:ILE:HG23	4:Y:253:GLU:HG2	1.96	0.48
1:A:248:MLY:HE2	1:A:250:ILE:HD11	1.95	0.48
1:A:635:GLY:HA3	4:8:334:GLU:CG	2.30	0.48
1:A:689:GLU:HG2	1:A:689:GLU:O	2.14	0.48
1:D:97:LEU:HD13	1:D:97:LEU:N	2.27	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:550:PHE:CE2	1:D:592:ILE:CG2	2.97	0.48
1:D:642:LYS:HB2	4:9:24:ASP:O	1.88	0.48
1:D:838:ILE:C	1:D:840:PRO:HD2	2.34	0.48
1:G:10:PHE:CD2	1:G:17:LEU:HD23	2.49	0.48
1:G:723:ARG:HH11	1:G:723:ARG:HG3	1.78	0.48
1:G:838:ILE:C	1:G:840:PRO:HD2	2.35	0.48
2:H:140:PHE:HB3	2:H:144:VAL:HG12	1.95	0.48
1:J:546:THR:CG2	1:J:547:ASP:N	2.77	0.48
2:K:112:ILE:CG2	2:K:147:ASN:O	2.62	0.48
1:P:154:HIS:CE1	1:P:156:PHE:CE2	3.02	0.48
1:P:292:MET:HE1	1:P:309:PRO:HD3	1.96	0.48
1:P:675:ILE:CG2	1:P:676:ILE:N	2.74	0.48
1:P:838:ILE:C	1:P:840:PRO:HD2	2.34	0.48
4:1:253:GLU:HA	4:1:256:ARG:CG	2.42	0.48
4:V:213:LYS:O	4:V:217:CYS:HB2	2.13	0.48
4:V:250:ILE:HG23	4:V:253:GLU:HG2	1.96	0.48
4:X:213:LYS:O	4:X:217:CYS:HB2	2.13	0.48
1:A:550:PHE:CE2	1:A:592:ILE:CG2	2.97	0.48
1:D:10:PHE:CD2	1:D:17:LEU:HD23	2.49	0.48
1:D:568:PRO:HD3	1:D:579:PHE:HA	1.96	0.48
1:D:578:HIS:HB3	1:D:592:ILE:CD1	2.38	0.48
2:E:144:VAL:HG12	2:E:153:ILE:HD13	1.92	0.48
1:G:314:TYR:CZ	1:G:362:GLY:HA2	2.48	0.48
1:G:544:LYS:HD2	4:V:147:ARG:CB	2.36	0.48
1:G:553:MLY:CB	4:X:45:VAL:O	2.57	0.48
1:G:724:TYR:HD1	1:G:727:LEU:CD1	2.27	0.48
1:G:818:TYR:HH	2:H:127:ARG:NH2	1.97	0.48
1:G:834:LEU:CD2	2:H:34:ILE:CG1	2.91	0.48
1:J:84:MLY:O	1:J:723:ARG:CD	2.61	0.48
1:J:94:MET:C	1:J:713:SER:CB	2.51	0.48
1:J:103:LEU:C	1:J:103:LEU:HD12	2.33	0.48
2:K:121:LEU:O	2:K:128:PHE:CG	2.61	0.48
1:P:554:LEU:HD12	1:P:554:LEU:HA	1.77	0.48
1:P:640:LYS:HD2	1:P:646:PHE:O	2.14	0.48
1:P:734:GLU:HG2	3:R:93:VAL:CG2	2.38	0.48
1:P:829:TRP:CH2	2:Q:87:LYS:HE2	2.49	0.48
1:P:839:MLY:HB2	1:P:840:PRO:HD3	1.94	0.48
4:2:253:GLU:HA	4:2:256:ARG:CG	2.42	0.48
4:9:120:THR:HG21	4:9:370:VAL:HG11	1.95	0.48
4:Y:198:TYR:CZ	4:Y:248:ILE:HG13	2.48	0.48
1:A:546:THR:CG2	1:A:547:ASP:N	2.77	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:595:TRP:N	1:A:595:TRP:CD1	2.80	0.47
1:A:765:VAL:CG1	1:A:766:PHE:N	2.77	0.47
1:A:837:MLY:NZ	2:H:20:ASP:HB2	2.28	0.47
1:D:530:MET:HE3	4:9:354:GLN:CG	2.34	0.47
1:D:542:PHE:CD2	4:9:143:TYR:CD1	3.02	0.47
1:D:602:PRO:O	1:D:603:LEU:HD12	2.14	0.47
2:E:130:PRO:O	2:E:131:GLU:C	2.52	0.47
1:G:530:MET:HE3	4:V:355:MET:SD	2.54	0.47
1:G:546:THR:CG2	1:G:547:ASP:N	2.77	0.47
1:G:720:PHE:CD2	1:G:744:SER:HB3	2.48	0.47
1:J:542:PHE:CD2	4:W:143:TYR:CD1	3.02	0.47
1:J:554:LEU:HD12	1:J:554:LEU:HA	1.77	0.47
1:J:636:LYS:O	4:W:144:ALA:HB1	2.14	0.47
1:P:218:LEU:CD2	1:P:222:ILE:CG1	2.86	0.47
1:P:538:GLU:HA	4:0:351:THR:H	1.77	0.47
1:A:410:ASN:HD22	4:8:336:LYS:HE2	1.78	0.47
1:A:640:LYS:HD2	1:A:646:PHE:O	2.15	0.47
1:A:754:ASP:H	1:A:775:LEU:CD1	2.26	0.47
1:A:793:ARG:O	1:A:797:PHE:N	2.40	0.47
1:A:836:PHE:CE1	2:B:159:HIS:HA	2.47	0.47
1:A:838:ILE:C	1:A:840:PRO:HD2	2.35	0.47
2:B:128:PHE:O	2:B:133:ILE:HD11	2.13	0.47
3:C:50:LEU:O	3:C:55:LYS:HB2	2.13	0.47
1:D:154:HIS:CE1	1:D:156:PHE:CE2	3.02	0.47
1:D:312:TYR:N	1:D:312:TYR:CD1	2.80	0.47
1:D:546:THR:CG2	1:D:547:ASP:N	2.77	0.47
1:D:723:ARG:HH11	1:D:723:ARG:HG3	1.79	0.47
1:G:214:MET:HA	1:G:340:ILE:CD1	2.41	0.47
1:G:418:THR:CB	1:G:421:GLU:HG3	2.37	0.47
1:G:550:PHE:CE2	1:G:592:ILE:CG2	2.97	0.47
1:G:564:ASN:HD22	1:G:582:VAL:HB	1.79	0.47
1:G:821:ARG:NH2	2:H:127:ARG:CD	2.77	0.47
1:J:134:VAL:C	1:J:136:ASN:H	2.16	0.47
1:J:436:MLY:HE3	1:J:626:TYR:HE1	1.77	0.47
1:P:10:PHE:CD2	1:P:17:LEU:HD23	2.49	0.47
1:P:689:GLU:O	1:P:689:GLU:HG2	2.14	0.47
1:P:799:MET:HB2	3:R:35:ARG:CB	2.44	0.47
2:Q:160:GLY:O	2:Q:161:GLU:HG2	2.14	0.47
4:0:110:LEU:CA	4:1:195:GLU:HG3	2.44	0.47
4:0:120:THR:HG21	4:0:370:VAL:HG11	1.95	0.47
4:2:250:ILE:HG23	4:2:253:GLU:HG2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:5:253:GLU:HA	4:5:256:ARG:CG	2.42	0.47
4:Z:120:THR:HG21	4:Z:370:VAL:HG11	1.95	0.47
1:A:176:LEU:N	1:A:176:LEU:CD1	2.74	0.47
1:A:404:PRO:HD2	1:A:415:MLY:O	2.13	0.47
1:A:602:PRO:O	1:A:603:LEU:HD12	2.14	0.47
1:A:833:MLY:HA	2:B:161:GLU:OE1	2.14	0.47
2:B:112:ILE:CG2	2:B:147:ASN:O	2.62	0.47
1:D:732:ILE:CD1	1:D:782:MLY:CH2	2.92	0.47
1:G:22:LYS:O	1:G:26:GLU:N	2.29	0.47
1:G:106:LEU:HD12	1:G:117:THR:HG21	1.96	0.47
1:G:602:PRO:O	1:G:603:LEU:HD12	2.14	0.47
1:G:753:VAL:HA	1:G:780:ASP:CG	2.24	0.47
1:J:218:LEU:CD2	1:J:222:ILE:CG1	2.86	0.47
1:J:819:ASN:OD1	2:K:90:GLY:O	2.32	0.47
1:P:136:ASN:O	1:P:139:VAL:N	2.47	0.47
1:P:834:LEU:HD12	2:Q:51:PHE:CE1	2.44	0.47
2:Q:121:LEU:O	2:Q:128:PHE:CG	2.61	0.47
3:R:50:LEU:O	3:R:55:LYS:HB2	2.13	0.47
4:0:198:TYR:CZ	4:0:248:ILE:HG13	2.48	0.47
4:1:120:THR:HG21	4:1:370:VAL:HG11	1.95	0.47
4:1:203:THR:CG2	4:Z:288:ASP:H	2.27	0.47
4:1:287:ILE:C	4:3:203:THR:HG22	2.35	0.47
4:3:213:LYS:O	4:3:217:CYS:HB2	2.13	0.47
4:8:213:LYS:O	4:8:217:CYS:HB2	2.13	0.47
4:9:213:LYS:O	4:9:217:CYS:HB2	2.13	0.47
4:V:285:CYS:O	4:X:202:THR:CG2	2.62	0.47
4:W:120:THR:HG21	4:W:370:VAL:HG11	1.95	0.47
4:X:250:ILE:HG23	4:X:253:GLU:HG2	1.96	0.47
4:Y:120:THR:HG21	4:Y:370:VAL:HG11	1.95	0.47
4:Z:253:GLU:HA	4:Z:256:ARG:CG	2.42	0.47
1:A:93:MET:CE	1:A:715:VAL:HG22	2.43	0.47
1:A:154:HIS:CE1	1:A:156:PHE:CE2	3.02	0.47
1:A:218:LEU:HA	1:A:221:GLN:H	1.79	0.47
1:A:783:LEU:HA	1:A:786:ILE:HB	1.96	0.47
1:A:800:ARG:O	3:C:149:VAL:HG21	2.08	0.47
1:D:410:ASN:HD22	4:9:336:LYS:HE2	1.78	0.47
1:D:564:ASN:HD22	1:D:582:VAL:HB	1.79	0.47
1:D:636:LYS:O	4:9:144:ALA:HB1	2.14	0.47
1:D:640:LYS:HD2	1:D:646:PHE:O	2.14	0.47
1:D:675:ILE:CG2	1:D:676:ILE:N	2.74	0.47
2:E:160:GLY:O	2:E:161:GLU:HG2	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:154:HIS:CE1	1:G:156:PHE:CE2	3.02	0.47
1:G:410:ASN:HD22	4:V:336:LYS:HE2	1.79	0.47
1:G:595:TRP:N	1:G:595:TRP:CD1	2.80	0.47
1:G:640:LYS:HD2	1:G:646:PHE:O	2.15	0.47
1:G:820:VAL:HG11	2:H:136:MET:HE1	1.94	0.47
2:H:160:GLY:O	2:H:161:GLU:HG2	2.15	0.47
1:J:564:ASN:HD22	1:J:582:VAL:HB	1.79	0.47
1:J:838:ILE:C	1:J:840:PRO:HD2	2.35	0.47
1:P:214:MET:C	1:P:340:ILE:CD1	2.82	0.47
2:Q:112:ILE:CG2	2:Q:147:ASN:O	2.62	0.47
4:0:162:ASN:OD1	4:0:277:THR:HG22	2.15	0.47
4:1:250:ILE:HG23	4:1:253:GLU:HG2	1.96	0.47
4:2:120:THR:HG21	4:2:370:VAL:HG11	1.95	0.47
4:8:299:MET:HE2	4:8:331:ALA:HB2	1.95	0.47
4:V:253:GLU:HA	4:V:256:ARG:CG	2.42	0.47
4:X:120:THR:HG21	4:X:370:VAL:HG11	1.95	0.47
4:Y:162:ASN:OD1	4:Y:277:THR:HG22	2.15	0.47
4:Z:250:ILE:HG23	4:Z:253:GLU:HG2	1.96	0.47
1:A:314:TYR:CZ	1:A:362:GLY:HA2	2.48	0.47
1:A:538:GLU:HA	4:8:351:THR:H	1.78	0.47
1:D:783:LEU:HA	1:D:786:ILE:HB	1.97	0.47
1:D:818:TYR:HB3	2:E:90:GLY:CA	2.18	0.47
3:F:53:PRO:O	3:F:55:LYS:HG3	2.15	0.47
1:G:122:PHE:CE2	1:G:700:VAL:HA	2.50	0.47
1:G:404:PRO:HD2	1:G:415:MLY:O	2.13	0.47
1:G:817:GLN:CG	2:H:128:PHE:CE1	2.97	0.47
1:J:154:HIS:CE1	1:J:156:PHE:CE2	3.02	0.47
1:J:214:MET:C	1:J:340:ILE:CD1	2.82	0.47
1:J:602:PRO:O	1:J:603:LEU:HD12	2.14	0.47
3:L:53:PRO:O	3:L:55:LYS:HG3	2.14	0.47
1:P:542:PHE:CD2	4:0:143:TYR:CD1	3.02	0.47
2:Q:121:LEU:HA	2:Q:128:PHE:CD2	2.47	0.47
3:R:50:LEU:O	3:R:53:PRO:CD	2.63	0.47
4:7:162:ASN:OD1	4:7:277:THR:HG22	2.15	0.47
4:W:162:ASN:OD1	4:W:277:THR:HG22	2.15	0.47
1:A:122:PHE:CE2	1:A:700:VAL:HA	2.50	0.47
1:A:646:PHE:HE2	1:A:652:LEU:CG	2.24	0.47
1:A:799:MET:SD	3:C:32:ASP:CG	2.89	0.47
1:D:188:ASN:ND2	1:D:674:CYS:SG	2.88	0.47
1:D:214:MET:C	1:D:340:ILE:CD1	2.82	0.47
1:D:524:GLU:HB3	1:D:528:MLY:HG2	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:542:PHE:CD2	4:V:143:TYR:CD1	3.03	0.47
1:G:793:ARG:O	1:G:797:PHE:N	2.39	0.47
1:J:188:ASN:ND2	1:J:674:CYS:SG	2.88	0.47
1:J:400:ALA:HB1	1:J:606:THR:CG2	2.45	0.47
1:J:406:VAL:CG1	1:J:407:GLY:N	2.77	0.47
1:J:530:MET:HE3	4:W:354:GLN:CB	2.44	0.47
1:J:568:PRO:HD3	1:J:579:PHE:HA	1.96	0.47
1:J:798:LEU:CD2	3:L:118:MET:SD	3.03	0.47
2:K:121:LEU:HA	2:K:128:PHE:CD2	2.46	0.47
1:P:122:PHE:CE2	1:P:700:VAL:HA	2.50	0.47
1:P:406:VAL:CG1	1:P:407:GLY:N	2.77	0.47
1:P:564:ASN:HD22	1:P:582:VAL:HB	1.79	0.47
1:P:636:LYS:O	4:0:144:ALA:HB1	2.14	0.47
1:P:795:ARG:HA	3:R:35:ARG:NH1	2.22	0.47
4:4:299:MET:HE2	4:4:331:ALA:HB2	1.96	0.47
4:5:120:THR:HG21	4:5:370:VAL:HG11	1.95	0.47
4:8:324:THR:O	4:V:244:ASP:HA	2.08	0.47
4:9:162:ASN:OD1	4:9:277:THR:HG22	2.15	0.47
4:W:325:MET:SD	4:Y:244:ASP:OD2	2.73	0.47
1:A:136:ASN:O	1:A:139:VAL:N	2.47	0.47
1:A:292:MET:HE1	1:A:309:PRO:HD3	1.97	0.47
1:A:762:HIS:CD2	1:A:762:HIS:N	2.78	0.47
1:A:815:CYS:SG	2:B:92:ASP:CB	2.95	0.47
2:B:160:GLY:O	2:B:161:GLU:HG2	2.14	0.47
1:D:248:MLY:HE2	1:D:250:ILE:HD11	1.96	0.47
1:D:311:ASP:CB	1:D:312:TYR:CE1	2.98	0.47
1:D:332:MET:H	1:D:332:MET:HG2	1.52	0.47
1:D:499:GLU:OE1	1:D:499:GLU:HA	2.13	0.47
1:D:629:GLU:CB	1:D:645:SER:N	2.74	0.47
1:D:800:ARG:HD3	3:F:149:VAL:C	2.35	0.47
1:G:106:LEU:HD12	1:G:106:LEU:HA	1.80	0.47
1:G:215:GLN:H	1:G:340:ILE:CD1	2.20	0.47
1:G:251:ARG:HB2	1:G:264:ASP:HB3	1.95	0.47
1:G:538:GLU:CD	4:V:355:MET:HE1	2.24	0.47
1:G:557:GLU:CB	4:X:47:MET:C	2.50	0.47
1:G:629:GLU:CA	1:G:643:GLY:C	2.73	0.47
1:G:695:LEU:HB3	1:G:701:LEU:HD22	1.97	0.47
1:G:755:HIS:N	1:G:779:ARG:NE	2.50	0.47
1:G:796:GLY:CA	3:I:35:ARG:NE	2.77	0.47
1:G:813:ILE:CG2	2:H:128:PHE:HZ	2.14	0.47
2:H:121:LEU:HA	2:H:128:PHE:CD2	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:53:PRO:O	3:I:55:LYS:HG3	2.15	0.47
1:J:206:LYS:HD2	1:J:217:THR:CG2	2.17	0.47
1:J:406:VAL:CG1	1:J:407:GLY:H	2.28	0.47
1:J:499:GLU:OE1	1:J:499:GLU:HA	2.13	0.47
1:J:519:LEU:N	1:J:519:LEU:CD1	2.77	0.47
1:J:524:GLU:HB3	1:J:528:MLY:HG2	1.97	0.47
1:J:640:LYS:HD2	1:J:646:PHE:O	2.15	0.47
1:J:689:GLU:O	1:J:689:GLU:HG2	2.14	0.47
1:J:724:TYR:HD1	1:J:727:LEU:CD1	2.27	0.47
1:J:732:ILE:CG2	1:J:747:LEU:CD1	0.65	0.47
2:K:137:TRP:CA	2:K:145:ALA:CB	2.82	0.47
2:K:140:PHE:HB3	2:K:144:VAL:HG12	1.94	0.47
1:P:206:LYS:CE	1:P:217:THR:HG23	2.30	0.47
1:P:400:ALA:HB1	1:P:606:THR:CG2	2.45	0.47
1:P:418:THR:CB	1:P:421:GLU:HG3	2.37	0.47
1:P:548:THR:HG22	4:2:49:GLN:CA	2.15	0.47
1:P:568:PRO:HD3	1:P:579:PHE:HA	1.96	0.47
1:P:664:LEU:HD12	1:P:664:LEU:HA	1.52	0.47
1:P:724:TYR:HD1	1:P:727:LEU:CD1	2.27	0.47
1:P:783:LEU:C	1:P:786:ILE:HG13	2.35	0.47
4:1:162:ASN:OD1	4:1:277:THR:HG22	2.15	0.47
4:1:203:THR:CA	4:Z:287:ILE:HB	2.44	0.47
4:3:162:ASN:OD1	4:3:277:THR:HG22	2.15	0.47
4:3:288:ASP:OD2	4:5:203:THR:OG1	2.32	0.47
4:5:299:MET:HE2	4:5:331:ALA:HB2	1.96	0.47
4:7:253:GLU:HA	4:7:256:ARG:CG	2.42	0.47
4:X:162:ASN:OD1	4:X:277:THR:HG22	2.15	0.47
4:Z:162:ASN:OD1	4:Z:277:THR:HG22	2.15	0.47
1:A:214:MET:C	1:A:340:ILE:CD1	2.82	0.47
1:A:251:ARG:HB2	1:A:264:ASP:HB3	1.95	0.47
1:A:400:ALA:HB1	1:A:606:THR:CG2	2.45	0.47
1:A:406:VAL:CG1	1:A:407:GLY:H	2.28	0.47
1:D:122:PHE:CE2	1:D:700:VAL:HA	2.49	0.47
1:D:406:VAL:CG1	1:D:407:GLY:N	2.77	0.47
1:D:643:GLY:N	4:9:23:GLY:C	2.55	0.47
1:D:695:LEU:HB3	1:D:701:LEU:HD22	1.97	0.47
1:G:94:MET:O	1:G:713:SER:CA	2.61	0.47
1:G:406:VAL:CG1	1:G:407:GLY:H	2.28	0.47
1:G:406:VAL:CG1	1:G:407:GLY:N	2.77	0.47
1:G:559:LEU:HD23	1:G:560:GLY:N	2.30	0.47
1:G:689:GLU:O	1:G:689:GLU:HG2	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:784:ALA:O	1:G:788:THR:CA	2.61	0.47
2:H:112:ILE:CG2	2:H:147:ASN:O	2.62	0.47
2:H:137:TRP:CA	2:H:145:ALA:HB2	2.37	0.47
1:J:106:LEU:HD12	1:J:117:THR:HG21	1.96	0.47
1:J:756:THR:HG21	1:J:779:ARG:HB3	1.96	0.47
1:J:796:GLY:HA2	3:L:35:ARG:HG2	1.96	0.47
2:K:139:ALA:C	2:K:141:PRO:HD3	2.33	0.47
1:P:42:HIS:O	1:P:45:GLN:O	2.33	0.47
1:P:410:ASN:HA	4:0:334:GLU:HB3	1.28	0.47
1:P:793:ARG:HB2	3:R:87:PHE:HZ	1.68	0.47
1:P:795:ARG:HG3	3:R:42:THR:HA	1.89	0.47
1:P:799:MET:CG	3:R:35:ARG:CD	2.93	0.47
4:2:162:ASN:OD1	4:2:277:THR:HG22	2.15	0.47
4:3:287:ILE:HG21	4:5:204:ALA:N	2.28	0.47
4:4:162:ASN:OD1	4:4:277:THR:HG22	2.15	0.47
1:A:732:ILE:H	1:A:733:PRO:HD2	1.74	0.47
3:C:52:ASN:CB	3:C:53:PRO:HD3	2.28	0.47
3:C:53:PRO:O	3:C:55:LYS:HG3	2.15	0.47
1:D:30:MLY:HB3	1:D:31:PRO:HD2	1.97	0.47
1:D:218:LEU:HA	1:D:221:GLN:H	1.79	0.47
1:D:221:GLN:HG2	1:D:221:GLN:H	1.47	0.47
1:D:496:PHE:CE2	1:D:514:ASP:HA	2.50	0.47
1:D:733:PRO:O	1:D:737:PHE:CE1	2.53	0.47
1:D:783:LEU:N	1:D:783:LEU:CD1	2.78	0.47
1:D:800:ARG:HH22	3:F:40:ASN:CG	1.89	0.47
1:G:84:MLY:HA	1:G:723:ARG:NH1	2.29	0.47
1:G:640:LYS:HB3	1:G:645:SER:CB	2.42	0.47
1:G:701:LEU:HA	1:G:701:LEU:HD12	1.55	0.47
2:H:121:LEU:O	2:H:128:PHE:CG	2.61	0.47
1:J:248:MLY:HE2	1:J:250:ILE:HD11	1.95	0.47
1:J:311:ASP:CB	1:J:312:TYR:CE1	2.98	0.47
1:J:496:PHE:CE2	1:J:514:ASP:HA	2.50	0.47
1:J:578:HIS:HB3	1:J:592:ILE:CD1	2.38	0.47
1:J:629:GLU:CA	1:J:643:GLY:C	2.73	0.47
1:J:838:ILE:CG1	2:K:54:MET:HE1	2.42	0.47
1:J:839:MLY:HH11	2:K:158:THR:HG22	1.97	0.47
1:P:411:GLU:H	4:0:333:PRO:HB2	1.80	0.47
1:P:578:HIS:HB3	1:P:592:ILE:CD1	2.38	0.47
1:P:602:PRO:O	1:P:603:LEU:HD12	2.14	0.47
1:P:810:ARG:HG2	1:P:810:ARG:NH1	2.29	0.47
4:0:173:HIS:HB3	4:1:267:ILE:HA	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:9:288:ASP:CA	4:W:204:ALA:HB2	2.31	0.47
4:V:299:MET:HE2	4:V:331:ALA:HB2	1.95	0.47
4:X:299:MET:HE2	4:X:331:ALA:HB2	1.96	0.47
1:A:144:ARG:HA	1:A:144:ARG:HD2	1.78	0.47
1:A:188:ASN:ND2	1:A:674:CYS:SG	2.88	0.47
1:A:265:ILE:CG2	1:A:266:GLU:N	2.78	0.47
1:A:564:ASN:HD22	1:A:582:VAL:HB	1.79	0.47
1:A:640:LYS:HB3	1:A:645:SER:CB	2.42	0.47
2:B:137:TRP:CZ3	2:B:145:ALA:N	2.81	0.47
1:D:595:TRP:N	1:D:595:TRP:CD1	2.80	0.47
1:D:834:LEU:HG	2:E:54:MET:SD	2.54	0.47
2:E:112:ILE:CG2	2:E:147:ASN:O	2.62	0.47
1:G:148:ARG:NH2	1:G:764:MLY:CH1	2.74	0.47
1:G:543:PRO:HD2	4:V:146:GLY:O	2.15	0.47
1:G:568:PRO:HD3	1:G:579:PHE:HA	1.97	0.47
1:G:715:VAL:CG1	1:G:720:PHE:HB2	2.45	0.47
1:J:83:PRO:C	1:J:723:ARG:NH2	2.68	0.47
1:J:122:PHE:CE2	1:J:700:VAL:HA	2.50	0.47
1:J:765:VAL:CG1	1:J:766:PHE:N	2.77	0.47
1:J:834:LEU:CD1	2:K:51:PHE:CD1	2.94	0.47
1:J:839:MLY:HH13	2:K:159:HIS:HD2	1.80	0.47
1:P:106:LEU:HD12	1:P:117:THR:HG21	1.96	0.47
4:V:162:ASN:OD1	4:V:277:THR:HG22	2.15	0.47
1:A:505:MLY:CG	1:A:762:HIS:CG	2.88	0.46
1:A:524:GLU:HB3	1:A:528:MLY:HG2	1.96	0.46
1:A:714:ARG:HD3	1:A:766:PHE:CE2	2.50	0.46
1:A:715:VAL:CG1	1:A:720:PHE:HB2	2.45	0.46
1:A:799:MET:CE	3:C:32:ASP:CB	2.61	0.46
2:B:88:LEU:HB3	2:B:91:ALA:HB2	1.98	0.46
1:D:543:PRO:HD2	4:9:146:GLY:O	2.15	0.46
1:D:838:ILE:HD11	2:E:54:MET:HE1	1.89	0.46
3:F:50:LEU:O	3:F:53:PRO:CD	2.63	0.46
1:G:188:ASN:ND2	1:G:674:CYS:SG	2.88	0.46
1:G:818:TYR:CB	2:H:90:GLY:HA3	2.42	0.46
1:G:834:LEU:HD23	2:H:34:ILE:HD11	1.96	0.46
1:J:42:HIS:O	1:J:45:GLN:O	2.33	0.46
1:J:374:GLN:NE2	1:J:403:TYR:CE1	2.84	0.46
1:J:629:GLU:HG2	1:J:643:GLY:C	2.35	0.46
1:P:136:ASN:HA	1:P:137:PRO:HD3	1.50	0.46
1:P:218:LEU:HA	1:P:221:GLN:H	1.79	0.46
1:P:310:TYR:CE2	1:P:320:ILE:CD1	2.94	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:374:GLN:NE2	1:P:403:TYR:CE1	2.84	0.46
1:P:496:PHE:CE2	1:P:514:ASP:HA	2.50	0.46
1:P:629:GLU:HG2	1:P:643:GLY:C	2.35	0.46
1:P:786:ILE:HG22	1:P:787:ILE:CB	2.33	0.46
4:0:166:TYR:OH	4:2:64:ILE:CB	2.64	0.46
1:A:418:THR:CB	1:A:421:GLU:HG3	2.37	0.46
1:D:42:HIS:O	1:D:45:GLN:O	2.33	0.46
1:D:400:ALA:HB1	1:D:606:THR:CG2	2.45	0.46
1:D:727:LEU:H	1:D:782:MLY:HE3	1.78	0.46
1:G:214:MET:C	1:G:340:ILE:CD1	2.82	0.46
1:G:400:ALA:HB1	1:G:606:THR:CG2	2.45	0.46
1:G:664:LEU:HD12	1:G:664:LEU:HA	1.52	0.46
1:J:559:LEU:HD23	1:J:560:GLY:N	2.30	0.46
1:J:640:LYS:C	4:W:23:GLY:C	2.74	0.46
1:J:783:LEU:N	1:J:783:LEU:CD1	2.78	0.46
1:J:789:ALA:HB2	3:L:81:GLN:OE1	2.15	0.46
1:P:248:MLY:HE2	1:P:250:ILE:HD11	1.95	0.46
1:P:530:MET:HE3	4:0:354:GLN:CG	2.38	0.46
1:P:640:LYS:C	4:0:23:GLY:C	2.74	0.46
3:R:53:PRO:O	3:R:55:LYS:HG3	2.14	0.46
4:8:162:ASN:OD1	4:8:277:THR:HG22	2.15	0.46
1:A:41:VAL:CG1	1:A:42:HIS:N	2.75	0.46
1:D:406:VAL:CG1	1:D:407:GLY:H	2.28	0.46
1:D:543:PRO:CD	4:9:143:TYR:O	2.64	0.46
1:D:640:LYS:HB3	1:D:645:SER:CB	2.41	0.46
1:D:715:VAL:HG11	1:D:720:PHE:CD1	2.50	0.46
1:J:529:PRO:HB2	4:W:354:GLN:HB3	1.98	0.46
1:J:714:ARG:HD3	1:J:766:PHE:CE2	2.50	0.46
1:P:82:PRO:HG2	1:P:85:TYR:CE2	2.50	0.46
1:P:733:PRO:HB2	3:R:93:VAL:CG2	2.45	0.46
1:P:798:LEU:HD11	3:R:126:LEU:CD1	2.45	0.46
2:Q:88:LEU:HB3	2:Q:91:ALA:HB2	1.98	0.46
4:1:203:THR:CG2	4:Z:288:ASP:OD1	2.64	0.46
4:5:162:ASN:OD1	4:5:277:THR:HG22	2.15	0.46
4:9:6:THR:HG22	4:9:101:HIS:HA	1.97	0.46
1:A:202:SER:HA	1:A:207:LYS:NZ	2.22	0.46
1:A:326:ASP:O	1:A:330:GLU:HG2	2.16	0.46
1:A:332:MET:O	1:A:336:SER:OG	2.27	0.46
1:A:568:PRO:HD3	1:A:579:PHE:HA	1.96	0.46
1:A:636:LYS:O	4:8:144:ALA:HB1	2.15	0.46
1:A:659:MLY:HD2	1:A:659:MLY:HH22	1.42	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:813:ILE:HG21	2:B:127:ARG:HB2	1.97	0.46
1:D:556:ASP:CA	4:W:49:GLN:O	2.52	0.46
1:D:629:GLU:HG2	1:D:643:GLY:C	2.35	0.46
1:D:726:VAL:O	1:D:785:GLU:HG2	2.15	0.46
1:D:732:ILE:HD13	1:D:782:MLY:CH2	2.43	0.46
1:D:797:PHE:HD1	3:F:146:ILE:O	1.98	0.46
1:D:829:TRP:HE1	2:E:67:MET:HG2	1.80	0.46
1:G:202:SER:HA	1:G:207:LYS:NZ	2.22	0.46
1:G:646:PHE:HE2	1:G:652:LEU:CG	2.25	0.46
1:G:755:HIS:CB	1:G:779:ARG:HH22	2.24	0.46
1:J:292:MET:HE1	1:J:309:PRO:HD3	1.97	0.46
1:J:540:CYS:N	4:W:349:LEU:HD11	2.31	0.46
1:P:448:GLN:C	1:P:450:ASP:H	2.19	0.46
1:P:559:LEU:HD23	1:P:560:GLY:N	2.30	0.46
1:P:715:VAL:CG1	1:P:720:PHE:HB2	2.45	0.46
4:0:6:THR:HG22	4:0:101:HIS:HA	1.97	0.46
4:1:202:THR:C	4:Z:287:ILE:CG2	2.79	0.46
4:W:299:MET:HE2	4:W:331:ALA:HB2	1.97	0.46
1:A:42:HIS:O	1:A:45:GLN:O	2.33	0.46
1:A:106:LEU:HD12	1:A:117:THR:HG21	1.96	0.46
1:A:214:MET:HA	1:A:340:ILE:CD1	2.42	0.46
1:A:292:MET:HE1	1:A:309:PRO:CG	2.46	0.46
1:A:332:MET:H	1:A:332:MET:HG2	1.52	0.46
1:A:543:PRO:HD2	4:8:146:GLY:O	2.15	0.46
1:A:559:LEU:HD23	1:A:560:GLY:N	2.30	0.46
1:D:82:PRO:HG2	1:D:85:TYR:CE2	2.51	0.46
1:D:96:HIS:CE1	1:D:770:GLY:N	2.84	0.46
1:D:265:ILE:CG2	1:D:266:GLU:N	2.78	0.46
1:D:374:GLN:NE2	1:D:403:TYR:CE1	2.84	0.46
1:D:507:GLY:C	1:D:762:HIS:H	2.19	0.46
1:D:529:PRO:HB2	4:9:354:GLN:HB3	1.98	0.46
1:D:540:CYS:N	4:9:349:LEU:HD11	2.31	0.46
1:D:831:TRP:CE2	2:E:51:PHE:CE2	3.02	0.46
1:G:139:VAL:HG12	1:G:143:TYR:HD2	1.81	0.46
1:G:311:ASP:CB	1:G:312:TYR:CE1	2.98	0.46
1:G:374:GLN:NE2	1:G:403:TYR:CE1	2.84	0.46
1:G:823:PHE:CE1	2:H:160:GLY:HA2	2.45	0.46
2:H:88:LEU:HB3	2:H:91:ALA:HB2	1.98	0.46
1:J:82:PRO:HG2	1:J:85:TYR:CE2	2.50	0.46
1:J:218:LEU:HA	1:J:221:GLN:H	1.79	0.46
1:P:41:VAL:CG1	1:P:42:HIS:N	2.75	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:311:ASP:CB	1:P:312:TYR:CE1	2.98	0.46
1:P:529:PRO:HB2	4:0:354:GLN:HB3	1.98	0.46
1:P:534:SER:HB2	4:0:354:GLN:HE22	1.56	0.46
1:P:540:CYS:N	4:0:349:LEU:HD11	2.30	0.46
1:P:725:ARG:NE	1:P:733:PRO:CB	1.95	0.46
1:P:793:ARG:HG2	3:R:87:PHE:CE1	2.50	0.46
1:P:803:TYR:CD1	1:P:807:VAL:HG21	2.50	0.46
2:Q:114:LYS:CG	2:Q:146:GLY:HA2	2.46	0.46
4:0:244:ASP:N	4:Y:291:LYS:HE2	0.23	0.46
4:0:366:GLY:O	4:0:369:ILE:HG22	2.16	0.46
4:3:299:MET:HE2	4:3:331:ALA:HB2	1.96	0.46
4:7:324:THR:N	4:9:245:GLY:CA	2.69	0.46
4:W:6:THR:HG22	4:W:101:HIS:HA	1.98	0.46
1:A:311:ASP:CB	1:A:312:TYR:CE1	2.98	0.46
1:A:335:ASP:OD1	1:A:348:MLY:NZ	2.49	0.46
1:A:361:TYR:O	1:A:364:LEU:HB2	2.16	0.46
1:A:724:TYR:HD1	1:A:727:LEU:CD1	2.27	0.46
1:D:206:LYS:HD3	1:D:217:THR:OG1	2.16	0.46
1:D:448:GLN:C	1:D:450:ASP:H	2.19	0.46
1:D:449:LEU:HD12	1:D:449:LEU:HA	1.60	0.46
1:D:715:VAL:CG1	1:D:720:PHE:HB2	2.46	0.46
1:D:834:LEU:HD22	2:E:50:THR:HG22	1.98	0.46
1:G:218:LEU:HA	1:G:221:GLN:H	1.79	0.46
1:J:732:ILE:CG2	1:J:747:LEU:HD12	0.35	0.46
1:P:188:ASN:ND2	1:P:674:CYS:SG	2.88	0.46
1:P:793:ARG:HH22	3:R:147:MET:HE1	1.72	0.46
1:P:817:GLN:CB	2:Q:127:ARG:HH11	2.26	0.46
4:7:6:THR:HG22	4:7:101:HIS:HA	1.98	0.46
4:9:290:ARG:HH22	4:W:202:THR:CG2	2.17	0.46
4:W:366:GLY:O	4:W:369:ILE:HG22	2.16	0.46
4:X:324:THR:O	4:Z:245:GLY:CA	2.64	0.46
4:Y:6:THR:HG22	4:Y:101:HIS:HA	1.98	0.46
4:Y:366:GLY:O	4:Y:369:ILE:HG22	2.16	0.46
1:A:87:MLY:HH12	1:A:87:MLY:HD3	1.61	0.46
1:A:206:LYS:HD3	1:A:217:THR:OG1	2.16	0.46
1:A:374:GLN:NE2	1:A:403:TYR:CE1	2.84	0.46
1:A:637:LYS:HD2	4:8:144:ALA:HB3	1.21	0.46
1:A:642:LYS:HA	4:8:21:PHE:C	2.36	0.46
3:C:50:LEU:O	3:C:53:PRO:CD	2.63	0.46
1:D:335:ASP:OD1	1:D:348:MLY:NZ	2.49	0.46
1:D:708:ARG:O	1:D:710:GLY:N	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:759:ALA:O	1:D:766:PHE:N	2.32	0.46
1:D:835:PHE:O	1:D:839:MLY:N	2.49	0.46
1:G:42:HIS:O	1:G:45:GLN:O	2.33	0.46
1:G:89:GLU:CD	1:G:153:PRO:HD2	2.36	0.46
1:G:332:MET:O	1:G:336:SER:OG	2.27	0.46
1:G:335:ASP:OD1	1:G:348:MLY:NZ	2.49	0.46
1:G:361:TYR:O	1:G:364:LEU:HB2	2.16	0.46
1:G:642:LYS:HA	4:V:21:PHE:C	2.36	0.46
2:H:137:TRP:CZ3	2:H:145:ALA:N	2.81	0.46
1:J:292:MET:HE1	1:J:309:PRO:CG	2.46	0.46
1:J:543:PRO:HD2	4:W:146:GLY:O	2.15	0.46
1:J:830:PRO:CB	2:K:67:MET:CE	2.94	0.46
2:K:88:LEU:HB3	2:K:91:ALA:HB2	1.98	0.46
2:K:137:TRP:CZ3	2:K:145:ALA:N	2.81	0.46
1:P:134:VAL:C	1:P:136:ASN:H	2.16	0.46
1:P:206:LYS:HD3	1:P:217:THR:OG1	2.16	0.46
1:P:335:ASP:OD1	1:P:348:MLY:NZ	2.49	0.46
1:P:543:PRO:HD2	4:0:146:GLY:O	2.15	0.46
1:P:732:ILE:CG2	1:P:747:LEU:HD12	0.35	0.46
4:7:366:GLY:O	4:7:369:ILE:HG22	2.16	0.46
4:W:287:ILE:HG13	4:Y:202:THR:HG23	1.72	0.46
1:A:543:PRO:CD	4:8:143:TYR:O	2.64	0.46
1:A:640:LYS:C	4:8:23:GLY:C	2.74	0.46
2:B:139:ALA:C	2:B:141:PRO:HD3	2.33	0.46
1:D:322:VAL:HB	1:D:325:ILE:HG13	1.98	0.46
1:D:507:GLY:CA	1:D:762:HIS:ND1	2.75	0.46
1:D:559:LEU:HD23	1:D:560:GLY:N	2.30	0.46
1:G:17:LEU:HA	1:G:17:LEU:HD12	1.67	0.46
1:G:206:LYS:HD3	1:G:217:THR:OG1	2.16	0.46
1:G:206:LYS:HD2	1:G:217:THR:CG2	2.17	0.46
1:G:524:GLU:HB3	1:G:528:MLY:HG2	1.96	0.46
1:G:714:ARG:HD3	1:G:766:PHE:CE2	2.50	0.46
1:G:754:ASP:HB2	1:G:776:GLU:CB	2.46	0.46
1:G:835:PHE:O	1:G:839:MLY:N	2.49	0.46
1:J:17:LEU:HA	1:J:17:LEU:HD12	1.67	0.46
1:J:206:LYS:HD3	1:J:217:THR:OG1	2.16	0.46
1:J:830:PRO:HB3	2:K:67:MET:CE	2.46	0.46
1:P:215:GLN:H	1:P:340:ILE:CD1	2.20	0.46
1:P:804:ARG:CB	1:P:808:GLU:CD	2.80	0.46
3:R:49:ILE:CA	3:R:52:ASN:ND2	2.54	0.46
4:0:166:TYR:OH	4:2:64:ILE:CD1	2.59	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:2:6:THR:HG22	4:2:101:HIS:HA	1.98	0.46
4:2:324:THR:HG23	4:4:244:ASP:O	1.63	0.46
4:9:366:GLY:O	4:9:369:ILE:HG22	2.16	0.46
1:A:411:GLU:H	4:8:333:PRO:HB2	1.80	0.46
1:A:464:ILE:CG2	1:A:465:ALA:N	2.79	0.46
1:A:642:LYS:CB	4:8:24:ASP:O	2.59	0.46
1:A:695:LEU:HB3	1:A:701:LEU:HD22	1.97	0.46
1:D:612:GLN:NE2	1:D:627:GLY:H	2.14	0.46
1:D:725:ARG:CG	1:D:733:PRO:HA	2.43	0.46
1:D:794:CYS:O	1:D:797:PHE:HB3	2.16	0.46
1:D:823:PHE:CD1	2:E:160:GLY:HA3	2.48	0.46
2:E:114:LYS:CG	2:E:146:GLY:HA2	2.46	0.46
1:G:82:PRO:HG2	1:G:85:TYR:CE2	2.51	0.46
1:G:326:ASP:O	1:G:330:GLU:HG2	2.16	0.46
1:G:636:LYS:O	4:V:144:ALA:HB1	2.14	0.46
1:G:797:PHE:CE1	3:I:146:ILE:CB	2.97	0.46
1:J:30:MLY:HB3	1:J:31:PRO:HD2	1.97	0.46
1:J:332:MET:O	1:J:336:SER:OG	2.27	0.46
1:J:642:LYS:HA	4:W:21:PHE:C	2.36	0.46
1:J:695:LEU:HB3	1:J:701:LEU:HD22	1.97	0.46
1:J:829:TRP:HZ3	2:K:84:PHE:CE1	2.25	0.46
2:K:160:GLY:O	2:K:161:GLU:HG2	2.14	0.46
1:P:265:ILE:CG2	1:P:266:GLU:N	2.78	0.46
1:P:361:TYR:O	1:P:364:LEU:HB2	2.16	0.46
2:Q:137:TRP:CA	2:Q:145:ALA:HB2	2.37	0.46
4:2:366:GLY:O	4:2:369:ILE:HG22	2.16	0.46
4:8:287:ILE:CB	4:V:204:ALA:H	2.13	0.46
4:W:253:GLU:HA	4:W:256:ARG:CG	2.42	0.46
1:A:801:VAL:N	3:C:149:VAL:HG21	2.31	0.46
1:D:99:GLU:N	1:D:100:PRO:CD	2.79	0.46
1:D:229:LEU:HD12	1:D:229:LEU:HA	1.75	0.46
1:D:642:LYS:HA	4:9:21:PHE:C	2.36	0.46
1:G:278:GLN:HE21	1:G:278:GLN:HB3	1.42	0.46
1:G:543:PRO:CD	4:V:143:TYR:O	2.64	0.46
1:G:708:ARG:CA	1:G:712:PRO:HG3	2.34	0.46
1:J:84:MLY:HH12	1:J:715:VAL:HG21	1.98	0.46
1:J:361:TYR:O	1:J:364:LEU:HB2	2.16	0.46
2:K:112:ILE:O	2:K:148:VAL:HA	2.16	0.46
1:P:406:VAL:CG1	1:P:407:GLY:H	2.28	0.46
1:P:797:PHE:HZ	3:R:146:ILE:HD11	1.75	0.46
4:1:223:PHE:CD2	4:1:259:GLU:HG3	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:1:324:THR:OG1	4:3:244:ASP:HB3	2.16	0.46
4:4:6:THR:HG22	4:4:101:HIS:HA	1.97	0.46
4:4:190:MET:O	4:4:194:THR:HG23	2.16	0.46
4:7:299:MET:HE2	4:7:331:ALA:HB2	1.97	0.46
4:8:253:GLU:HA	4:8:256:ARG:CG	2.42	0.46
1:A:476:GLU:OE2	1:A:598:MLY:HH13	2.16	0.45
2:B:144:VAL:HG12	2:B:153:ILE:HD13	1.92	0.45
1:D:89:GLU:CD	1:D:153:PRO:HD2	2.36	0.45
1:G:265:ILE:CG2	1:G:266:GLU:N	2.79	0.45
1:G:629:GLU:CB	1:G:645:SER:N	2.74	0.45
1:G:639:GLY:CA	4:V:344:SER:O	2.40	0.45
1:G:725:ARG:NE	1:G:733:PRO:CB	1.95	0.45
1:G:732:ILE:HG21	1:G:747:LEU:CD1	0.64	0.45
1:G:754:ASP:C	1:G:776:GLU:OE2	2.54	0.45
1:G:783:LEU:N	1:G:783:LEU:CD1	2.78	0.45
1:G:829:TRP:HZ3	2:H:84:PHE:CE2	2.28	0.45
1:J:218:LEU:HD22	1:J:222:ILE:HG13	1.95	0.45
1:J:322:VAL:HB	1:J:325:ILE:HG13	1.98	0.45
1:J:330:GLU:O	1:J:333:ALA:HB3	2.16	0.45
1:J:335:ASP:OD1	1:J:348:MLY:NZ	2.49	0.45
1:J:715:VAL:CG1	1:J:720:PHE:HB2	2.45	0.45
1:J:801:VAL:HG21	3:L:126:LEU:HD23	1.97	0.45
1:P:714:ARG:HD3	1:P:766:PHE:CE2	2.50	0.45
1:P:733:PRO:O	1:P:737:PHE:CE1	2.53	0.45
2:Q:140:PHE:HA	2:Q:141:PRO:HD2	1.57	0.45
4:2:190:MET:O	4:2:194:THR:HG23	2.16	0.45
4:3:366:GLY:O	4:3:369:ILE:HG22	2.16	0.45
1:A:82:PRO:HG2	1:A:85:TYR:CE2	2.50	0.45
1:A:136:ASN:HA	1:A:137:PRO:HD3	1.49	0.45
1:A:210:GLN:C	1:A:211:SER:HG	2.15	0.45
1:A:418:THR:CG2	1:A:419:VAL:N	2.79	0.45
1:A:529:PRO:HB2	4:8:354:GLN:HB3	1.97	0.45
1:A:809:ARG:HH12	2:B:124:GLY:HA2	1.79	0.45
2:B:114:LYS:CG	2:B:146:GLY:HA2	2.46	0.45
1:D:464:ILE:CG2	1:D:465:ALA:N	2.79	0.45
1:D:714:ARG:HD3	1:D:766:PHE:CE2	2.50	0.45
1:D:727:LEU:HG	1:D:782:MLY:HG3	1.41	0.45
1:D:818:TYR:HB2	2:E:90:GLY:HA3	0.60	0.45
1:D:819:ASN:HD22	2:E:90:GLY:C	1.99	0.45
2:E:163:ALA:O	2:K:21:GLU:CA	2.63	0.45
1:G:30:MLY:HB3	1:G:31:PRO:HD2	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:55:MLY:HH23	1:G:60:VAL:HG22	1.99	0.45
1:G:186:THR:O	1:G:190:MLY:HG2	2.17	0.45
1:G:354:LEU:HD12	1:G:354:LEU:HA	1.56	0.45
1:G:436:MLY:HE3	1:G:626:TYR:HE1	1.77	0.45
1:G:464:ILE:CG2	1:G:465:ALA:N	2.80	0.45
1:G:642:LYS:HG3	4:V:23:GLY:CA	2.31	0.45
1:G:659:MLY:HD2	1:G:659:MLY:HH22	1.42	0.45
1:G:829:TRP:CZ3	2:H:84:PHE:CD1	3.02	0.45
1:J:186:THR:O	1:J:190:MLY:HG2	2.17	0.45
1:P:544:LYS:CE	4:2:45:VAL:HG22	2.46	0.45
1:P:642:LYS:HA	4:0:21:PHE:C	2.35	0.45
1:P:829:TRP:CH2	2:Q:87:LYS:CE	3.00	0.45
2:Q:117:LEU:CG	2:Q:147:ASN:OD1	2.52	0.45
4:3:190:MET:O	4:3:194:THR:HG23	2.16	0.45
4:3:223:PHE:CD2	4:3:259:GLU:HG3	2.52	0.45
4:4:366:GLY:O	4:4:369:ILE:HG22	2.16	0.45
4:5:6:THR:HG22	4:5:101:HIS:HA	1.98	0.45
4:5:190:MET:O	4:5:194:THR:HG23	2.16	0.45
4:V:32:PRO:HB2	4:V:34:ILE:HD11	1.98	0.45
4:W:223:PHE:CD2	4:W:259:GLU:HG3	2.51	0.45
4:X:223:PHE:CD2	4:X:259:GLU:HG3	2.51	0.45
1:A:30:MLY:HB3	1:A:31:PRO:HD2	1.97	0.45
1:A:295:MLY:CD	1:A:332:MET:HE2	2.47	0.45
1:A:296:MLY:O	1:A:299:LEU:HB2	2.17	0.45
1:A:667:THR:O	1:A:669:PRO:HD3	2.16	0.45
1:A:810:ARG:HG2	1:A:810:ARG:NH1	2.29	0.45
1:D:443:ILE:HG22	1:D:444:ARG:N	2.29	0.45
1:D:476:GLU:OE2	1:D:598:MLY:HH13	2.16	0.45
1:G:144:ARG:HA	1:G:144:ARG:HD2	1.78	0.45
1:G:448:GLN:C	1:G:450:ASP:H	2.19	0.45
1:J:95:THR:HA	1:J:713:SER:HG	1.69	0.45
1:J:673:ARG:HA	1:J:673:ARG:HD2	1.79	0.45
1:J:732:ILE:H	1:J:733:PRO:CD	2.23	0.45
1:P:186:THR:O	1:P:190:MLY:HG2	2.17	0.45
1:P:793:ARG:CB	3:R:87:PHE:CE2	2.99	0.45
4:4:223:PHE:CD2	4:4:259:GLU:HG3	2.51	0.45
4:W:190:MET:O	4:W:194:THR:HG23	2.16	0.45
4:Z:32:PRO:HB2	4:Z:34:ILE:HD11	1.98	0.45
1:A:55:MLY:HH23	1:A:60:VAL:HG22	1.99	0.45
1:A:89:GLU:CD	1:A:153:PRO:HD2	2.36	0.45
1:A:179:GLY:O	1:A:185:LYS:HE2	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:629:GLU:HG2	1:A:643:GLY:C	2.35	0.45
1:A:732:ILE:CG2	1:A:747:LEU:CD1	0.65	0.45
1:D:136:ASN:O	1:D:139:VAL:N	2.47	0.45
1:D:726:VAL:HG12	1:D:785:GLU:CB	2.45	0.45
1:G:411:GLU:H	4:V:333:PRO:HB2	1.80	0.45
1:G:540:CYS:N	4:V:349:LEU:HD11	2.31	0.45
1:J:89:GLU:CD	1:J:153:PRO:HD2	2.36	0.45
1:J:265:ILE:CG2	1:J:266:GLU:N	2.79	0.45
1:J:408:VAL:HG22	1:J:636:LYS:HG2	1.52	0.45
1:J:476:GLU:OE2	1:J:598:MLY:HH13	2.16	0.45
1:J:640:LYS:HB3	1:J:645:SER:CB	2.42	0.45
1:J:642:LYS:NZ	4:W:340:TRP:O	2.50	0.45
1:J:664:LEU:HD12	1:J:664:LEU:HA	1.52	0.45
1:P:87:MLY:HH12	1:P:87:MLY:HD3	1.61	0.45
1:P:783:LEU:N	1:P:783:LEU:CD1	2.78	0.45
1:P:798:LEU:HD12	1:P:798:LEU:HA	1.36	0.45
1:P:817:GLN:CD	2:Q:127:ARG:CG	2.85	0.45
4:0:110:LEU:O	4:1:195:GLU:CB	2.64	0.45
4:1:366:GLY:O	4:1:369:ILE:HG22	2.16	0.45
4:9:299:MET:HE2	4:9:331:ALA:HB2	1.98	0.45
4:X:6:THR:HG22	4:X:101:HIS:HA	1.98	0.45
1:A:139:VAL:HG12	1:A:143:TYR:HD2	1.81	0.45
1:A:206:LYS:CE	1:A:217:THR:HG23	2.30	0.45
1:A:229:LEU:HD12	1:A:229:LEU:HA	1.75	0.45
1:A:448:GLN:C	1:A:450:ASP:H	2.19	0.45
1:A:496:PHE:CE2	1:A:514:ASP:HA	2.50	0.45
1:A:540:CYS:N	4:8:349:LEU:HD11	2.31	0.45
1:A:725:ARG:CG	1:A:733:PRO:CA	2.95	0.45
1:A:835:PHE:O	1:A:839:MLY:N	2.49	0.45
1:D:179:GLY:O	1:D:185:LYS:HE2	2.17	0.45
1:D:330:GLU:O	1:D:333:ALA:HB3	2.17	0.45
1:D:361:TYR:O	1:D:364:LEU:HB2	2.16	0.45
1:D:411:GLU:H	4:9:333:PRO:CB	2.29	0.45
1:D:507:GLY:CA	1:D:762:HIS:CD2	2.98	0.45
1:D:712:PRO:CG	1:D:771:LEU:CB	2.85	0.45
1:D:724:TYR:CB	1:D:782:MLY:CD	2.94	0.45
1:D:732:ILE:CG2	1:D:747:LEU:CD1	0.65	0.45
2:E:137:TRP:CZ3	2:E:145:ALA:N	2.81	0.45
1:G:637:LYS:HD2	4:V:144:ALA:HB3	1.20	0.45
1:G:725:ARG:HH21	1:G:733:PRO:HB2	1.81	0.45
2:H:112:ILE:O	2:H:148:VAL:HA	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:715:VAL:HG11	1:J:720:PHE:CD1	2.49	0.45
1:J:725:ARG:HH21	1:J:733:PRO:HB2	1.81	0.45
1:J:810:ARG:HG2	1:J:810:ARG:NH1	2.29	0.45
1:J:817:GLN:HB3	2:K:127:ARG:NH1	2.29	0.45
1:P:30:MLY:HB3	1:P:31:PRO:HD2	1.97	0.45
1:P:322:VAL:HB	1:P:325:ILE:HG13	1.98	0.45
1:P:330:GLU:O	1:P:333:ALA:HB3	2.16	0.45
1:P:543:PRO:CD	4:0:143:TYR:O	2.64	0.45
1:P:695:LEU:HB3	1:P:701:LEU:HD22	1.97	0.45
1:P:799:MET:HB3	3:R:35:ARG:HB3	1.98	0.45
2:Q:139:ALA:C	2:Q:141:PRO:HD3	2.33	0.45
4:5:32:PRO:HB2	4:5:34:ILE:HD11	1.98	0.45
4:7:190:MET:O	4:7:194:THR:HG23	2.16	0.45
4:Z:223:PHE:CD2	4:Z:259:GLU:HG3	2.52	0.45
1:A:295:MLY:HG3	1:A:332:MET:HE1	1.94	0.45
1:A:411:GLU:H	4:8:333:PRO:CB	2.30	0.45
1:A:629:GLU:CA	1:A:643:GLY:C	2.73	0.45
1:A:752:ASP:OD2	1:A:782:MLY:CG	2.64	0.45
1:D:103:LEU:HD22	1:D:692:LEU:HG	1.98	0.45
1:D:664:LEU:HD12	1:D:664:LEU:HA	1.53	0.45
1:D:725:ARG:HH21	1:D:733:PRO:HB2	1.81	0.45
1:G:173:GLN:HG3	1:G:670:HIS:HD2	1.82	0.45
1:G:485:GLU:OE1	1:G:583:HIS:ND1	2.49	0.45
1:G:540:CYS:C	4:V:349:LEU:HD21	2.36	0.45
1:G:755:HIS:CG	1:G:779:ARG:HH12	2.08	0.45
1:G:791:GLN:NE2	3:I:116:GLU:N	2.64	0.45
1:G:794:CYS:O	1:G:797:PHE:HB3	2.17	0.45
1:J:173:GLN:HG3	1:J:670:HIS:HD2	1.82	0.45
1:J:448:GLN:C	1:J:450:ASP:H	2.19	0.45
1:J:725:ARG:HA	1:J:732:ILE:HG22	1.99	0.45
1:J:793:ARG:HA	3:L:40:ASN:HB3	1.98	0.45
3:L:50:LEU:O	3:L:53:PRO:CD	2.63	0.45
1:P:89:GLU:CD	1:P:153:PRO:HD2	2.36	0.45
1:P:794:CYS:O	1:P:797:PHE:HB3	2.17	0.45
4:0:190:MET:O	4:0:194:THR:HG23	2.16	0.45
4:3:287:ILE:HG13	4:5:202:THR:HA	1.40	0.45
4:8:324:THR:N	4:V:245:GLY:CA	2.69	0.45
4:8:366:GLY:O	4:8:369:ILE:HG22	2.16	0.45
4:V:6:THR:HG22	4:V:101:HIS:HA	1.98	0.45
4:X:190:MET:O	4:X:194:THR:HG23	2.16	0.45
4:Y:190:MET:O	4:Y:194:THR:HG23	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Y:299:MET:HE2	4:Y:331:ALA:HB2	1.98	0.45
1:A:641:LYS:CE	1:A:647:GLN:CB	2.74	0.45
1:A:725:ARG:HH21	1:A:733:PRO:HB2	1.81	0.45
2:B:121:LEU:O	2:B:128:PHE:CG	2.61	0.45
1:D:797:PHE:HE2	3:F:126:LEU:HD22	0.51	0.45
1:G:99:GLU:N	1:G:100:PRO:CD	2.79	0.45
1:G:176:LEU:N	1:G:176:LEU:CD1	2.75	0.45
1:G:322:VAL:HB	1:G:325:ILE:HG13	1.98	0.45
1:G:529:PRO:HB2	4:V:354:GLN:HB3	1.98	0.45
1:G:642:LYS:NZ	4:V:340:TRP:O	2.50	0.45
1:G:725:ARG:HA	1:G:732:ILE:HG22	1.99	0.45
1:J:179:GLY:O	1:J:185:LYS:HE2	2.17	0.45
1:P:418:THR:CG2	1:P:419:VAL:N	2.79	0.45
1:P:641:LYS:CD	1:P:647:GLN:CG	2.72	0.45
1:P:732:ILE:CG2	1:P:747:LEU:CD1	0.65	0.45
1:P:783:LEU:CD1	1:P:786:ILE:HD11	2.42	0.45
4:0:202:THR:CB	4:Y:287:ILE:H	2.30	0.45
4:0:223:PHE:CD2	4:0:259:GLU:HG3	2.51	0.45
4:1:190:MET:O	4:1:194:THR:HG23	2.16	0.45
4:3:6:THR:HG22	4:3:101:HIS:HA	1.98	0.45
4:7:32:PRO:HB2	4:7:34:ILE:HD11	1.98	0.45
4:8:6:THR:HG22	4:8:101:HIS:HA	1.98	0.45
4:8:190:MET:O	4:8:194:THR:HG23	2.16	0.45
4:W:286:ASP:HA	4:Y:202:THR:HG22	1.32	0.45
4:X:32:PRO:HB2	4:X:34:ILE:HD11	1.98	0.45
4:X:253:GLU:HA	4:X:256:ARG:CG	2.42	0.45
4:Y:223:PHE:CD2	4:Y:259:GLU:HG3	2.52	0.45
4:Y:253:GLU:HA	4:Y:256:ARG:CG	2.42	0.45
1:A:17:LEU:HD12	1:A:17:LEU:HA	1.68	0.45
1:A:37:SER:O	1:A:38:VAL:HG23	2.17	0.45
1:A:322:VAL:HB	1:A:325:ILE:HG13	1.98	0.45
1:A:502:GLU:C	1:A:761:GLY:CA	2.79	0.45
1:A:794:CYS:O	1:A:797:PHE:HB3	2.17	0.45
1:D:139:VAL:HG12	1:D:143:TYR:HD2	1.81	0.45
1:D:296:MLY:O	1:D:299:LEU:HB2	2.17	0.45
1:D:326:ASP:O	1:D:330:GLU:HG2	2.16	0.45
1:D:597:GLU:O	1:D:600:MLY:N	2.50	0.45
1:D:642:LYS:NZ	4:9:340:TRP:O	2.50	0.45
1:D:732:ILE:HG23	1:D:747:LEU:HD12	0.94	0.45
2:E:88:LEU:HB3	2:E:91:ALA:HB2	1.98	0.45
1:G:28:GLN:HB3	1:G:723:ARG:HH22	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:136:ASN:HA	1:G:137:PRO:HD3	1.49	0.45
1:G:496:PHE:CE2	1:G:514:ASP:HA	2.50	0.45
1:G:597:GLU:O	1:G:600:MLY:N	2.50	0.45
1:J:410:ASN:HA	4:W:334:GLU:HB3	1.28	0.45
1:J:829:TRP:CH2	2:K:83:MET:HE3	2.51	0.45
1:P:99:GLU:N	1:P:100:PRO:CD	2.80	0.45
1:P:173:GLN:HG3	1:P:670:HIS:HD2	1.82	0.45
1:P:292:MET:HE1	1:P:309:PRO:CG	2.47	0.45
1:P:476:GLU:OE2	1:P:598:MLY:HH13	2.16	0.45
1:P:524:GLU:HB3	1:P:528:MLY:HG2	1.97	0.45
1:P:767:PHE:CG	1:P:772:LEU:CD1	3.00	0.45
1:P:800:ARG:CD	3:R:149:VAL:HG13	2.46	0.45
1:P:829:TRP:O	1:P:832:MET:N	2.50	0.45
1:P:835:PHE:O	1:P:839:MLY:N	2.49	0.45
4:0:253:GLU:HA	4:0:256:ARG:CG	2.42	0.45
4:1:32:PRO:HB2	4:1:34:ILE:HD11	1.98	0.45
4:1:322:PRO:CA	4:3:244:ASP:HB2	2.47	0.45
4:2:32:PRO:HB2	4:2:34:ILE:HD11	1.98	0.45
4:5:366:GLY:O	4:5:369:ILE:HG22	2.16	0.45
4:8:287:ILE:HA	4:V:202:THR:HG21	1.59	0.45
4:9:223:PHE:CD2	4:9:259:GLU:HG3	2.52	0.45
4:X:366:GLY:O	4:X:369:ILE:HG22	2.16	0.45
1:A:206:LYS:HD2	1:A:217:THR:CG2	2.17	0.45
1:A:519:LEU:N	1:A:519:LEU:CD1	2.77	0.45
1:A:597:GLU:O	1:A:600:MLY:N	2.50	0.45
1:A:707:CYS:SG	1:A:714:ARG:HD2	2.56	0.45
1:A:732:ILE:HG21	1:A:747:LEU:CD1	0.64	0.45
1:A:813:ILE:CG2	2:B:127:ARG:CG	2.94	0.45
1:D:14:ALA:N	1:D:15:PRO:HD2	2.32	0.45
1:D:37:SER:O	1:D:38:VAL:HG23	2.17	0.45
1:D:136:ASN:HA	1:D:137:PRO:HD3	1.50	0.45
1:D:295:MLY:CG	1:D:332:MET:HE1	2.46	0.45
1:D:675:ILE:HG23	1:D:676:ILE:N	2.32	0.45
1:D:798:LEU:HD12	1:D:798:LEU:HA	1.36	0.45
1:G:14:ALA:N	1:G:15:PRO:HD2	2.32	0.45
1:G:408:VAL:CG1	4:V:332:PRO:HB3	2.41	0.45
1:G:418:THR:CG2	1:G:419:VAL:N	2.79	0.45
1:G:476:GLU:OE2	1:G:598:MLY:HH13	2.16	0.45
1:G:612:GLN:NE2	1:G:627:GLY:H	2.14	0.45
1:G:723:ARG:NH1	1:G:723:ARG:CG	2.79	0.45
1:G:810:ARG:HG2	1:G:810:ARG:NH1	2.28	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:816:ILE:HD11	2:H:100:ALA:HB3	1.99	0.45
1:J:56:GLU:HB2	1:J:59:MLY:CB	2.30	0.45
1:J:326:ASP:O	1:J:330:GLU:HG2	2.16	0.45
1:J:747:LEU:C	1:J:749:GLY:H	2.20	0.45
1:J:829:TRP:HH2	2:K:83:MET:HE3	1.82	0.45
1:P:568:PRO:CG	1:P:578:HIS:H	2.30	0.45
1:P:642:LYS:NZ	4:0:340:TRP:O	2.50	0.45
1:P:715:VAL:HG11	1:P:720:PHE:CD1	2.49	0.45
4:2:299:MET:HE2	4:2:331:ALA:HB2	1.99	0.45
4:4:32:PRO:HB2	4:4:34:ILE:HD11	1.98	0.45
4:5:223:PHE:CD2	4:5:259:GLU:HG3	2.51	0.45
4:7:223:PHE:CD2	4:7:259:GLU:HG3	2.51	0.45
4:8:32:PRO:HB2	4:8:34:ILE:HD11	1.98	0.45
4:Z:366:GLY:O	4:Z:369:ILE:HG22	2.16	0.45
1:A:195:TYR:CE2	1:A:199:ILE:HD12	2.52	0.45
1:A:224:SER:O	1:A:227:PRO:HD2	2.17	0.45
1:A:530:MET:HA	4:8:354:GLN:CD	2.11	0.45
1:A:747:LEU:C	1:A:749:GLY:H	2.20	0.45
1:D:226:ASN:N	1:D:227:PRO:HD2	2.32	0.45
1:D:530:MET:HE3	4:9:354:GLN:CB	2.46	0.45
1:D:640:LYS:C	4:9:23:GLY:C	2.74	0.45
1:D:747:LEU:C	1:D:749:GLY:H	2.21	0.45
1:G:64:THR:HB	1:G:68:GLU:N	2.32	0.45
1:G:296:MLY:O	1:G:299:LEU:HB2	2.17	0.45
1:G:667:THR:O	1:G:669:PRO:HD3	2.16	0.45
2:H:139:ALA:C	2:H:141:PRO:HD3	2.33	0.45
3:I:50:LEU:O	3:I:53:PRO:CD	2.63	0.45
1:J:226:ASN:N	1:J:227:PRO:HD2	2.32	0.45
1:J:322:VAL:CG1	1:J:325:ILE:HD11	2.47	0.45
1:J:464:ILE:CG2	1:J:465:ALA:N	2.80	0.45
1:J:667:THR:O	1:J:669:PRO:HD3	2.16	0.45
1:J:794:CYS:O	1:J:797:PHE:HB3	2.17	0.45
1:P:14:ALA:N	1:P:15:PRO:HD2	2.32	0.45
1:P:326:ASP:O	1:P:330:GLU:HG2	2.16	0.45
1:P:640:LYS:HB3	1:P:645:SER:CB	2.42	0.45
1:P:725:ARG:NH2	3:R:93:VAL:CB	2.71	0.45
1:P:804:ARG:HD3	1:P:808:GLU:OE2	2.16	0.45
1:P:839:MLY:HH13	2:Q:159:HIS:HD2	1.82	0.45
4:Z:6:THR:HG22	4:Z:101:HIS:HA	1.97	0.45
1:A:99:GLU:N	1:A:100:PRO:CD	2.79	0.44
1:A:163:TYR:O	1:A:166:MET:HB3	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:278:GLN:HE21	1:A:278:GLN:HB3	1.41	0.44
1:A:322:VAL:CG1	1:A:325:ILE:HD11	2.47	0.44
1:A:488:GLN:O	1:A:491:PHE:HB3	2.17	0.44
1:A:725:ARG:CG	1:A:733:PRO:HA	2.43	0.44
1:A:725:ARG:HA	1:A:732:ILE:HG22	1.99	0.44
1:A:798:LEU:HD12	1:A:798:LEU:HA	1.37	0.44
2:B:117:LEU:CG	2:B:147:ASN:OD1	2.52	0.44
1:D:64:THR:HB	1:D:68:GLU:N	2.33	0.44
1:D:163:TYR:O	1:D:166:MET:HB3	2.17	0.44
1:D:186:THR:O	1:D:190:MLY:HG2	2.17	0.44
1:D:486:MLY:HH22	1:D:527:GLU:CD	2.37	0.44
1:G:640:LYS:C	4:V:23:GLY:C	2.75	0.44
2:H:112:ILE:O	2:H:148:VAL:N	2.50	0.44
1:J:14:ALA:N	1:J:15:PRO:HD2	2.32	0.44
1:J:37:SER:O	1:J:38:VAL:HG23	2.17	0.44
1:J:93:MET:HG2	1:J:715:VAL:CA	2.32	0.44
1:J:202:SER:HA	1:J:207:LYS:NZ	2.22	0.44
1:J:597:GLU:O	1:J:600:MLY:N	2.50	0.44
1:J:689:GLU:HA	1:J:692:LEU:HB2	2.00	0.44
1:J:723:ARG:CG	1:J:723:ARG:NH1	2.79	0.44
1:J:791:GLN:HE22	3:L:115:GLY:CA	2.30	0.44
2:K:129:THR:HG23	2:K:132:GLU:OE1	2.17	0.44
1:P:37:SER:O	1:P:38:VAL:HG23	2.17	0.44
1:P:64:THR:HB	1:P:68:GLU:N	2.32	0.44
1:P:129:TYR:HD1	1:P:129:TYR:HA	1.65	0.44
1:P:226:ASN:N	1:P:227:PRO:HD2	2.32	0.44
1:P:296:MLY:O	1:P:299:LEU:HB2	2.17	0.44
1:P:332:MET:O	1:P:336:SER:OG	2.27	0.44
1:P:464:ILE:CG2	1:P:465:ALA:N	2.80	0.44
1:P:488:GLN:O	1:P:491:PHE:HB3	2.16	0.44
1:P:839:MLY:CH1	2:Q:159:HIS:HD2	2.30	0.44
2:Q:112:ILE:O	2:Q:148:VAL:HA	2.16	0.44
4:5:223:PHE:HB3	4:5:259:GLU:OE2	2.18	0.44
4:9:223:PHE:HB3	4:9:259:GLU:OE2	2.17	0.44
4:V:223:PHE:CD2	4:V:259:GLU:HG3	2.52	0.44
1:A:64:THR:HB	1:A:68:GLU:N	2.33	0.44
1:A:443:ILE:HG22	1:A:444:ARG:N	2.29	0.44
1:A:783:LEU:N	1:A:783:LEU:CD1	2.79	0.44
1:D:97:LEU:HD12	1:D:97:LEU:HA	1.67	0.44
1:D:488:GLN:O	1:D:491:PHE:HB3	2.17	0.44
1:D:568:PRO:CG	1:D:578:HIS:H	2.30	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:112:ILE:O	2:E:148:VAL:N	2.50	0.44
1:G:292:MET:HE1	1:G:309:PRO:CG	2.46	0.44
1:G:411:GLU:H	4:V:333:PRO:CB	2.30	0.44
1:G:485:GLU:HA	1:G:584:TYR:HE2	1.82	0.44
1:G:488:GLN:O	1:G:491:PHE:HB3	2.17	0.44
1:G:519:LEU:N	1:G:519:LEU:CD1	2.77	0.44
1:J:296:MLY:O	1:J:299:LEU:HB2	2.17	0.44
1:J:488:GLN:O	1:J:491:PHE:HB3	2.17	0.44
1:P:409:GLY:N	1:P:636:LYS:CD	2.70	0.44
4:0:32:PRO:HB2	4:0:34:ILE:HD11	1.98	0.44
4:3:32:PRO:HB2	4:3:34:ILE:HD11	1.98	0.44
4:4:253:GLU:HA	4:4:256:ARG:CG	2.42	0.44
4:8:223:PHE:CD2	4:8:259:GLU:HG3	2.51	0.44
4:8:223:PHE:HB3	4:8:259:GLU:OE2	2.17	0.44
4:9:190:MET:O	4:9:194:THR:HG23	2.16	0.44
4:W:32:PRO:HB2	4:W:34:ILE:HD11	1.98	0.44
4:W:223:PHE:HB3	4:W:259:GLU:OE2	2.18	0.44
4:Y:32:PRO:HB2	4:Y:34:ILE:HD11	1.98	0.44
1:A:48:VAL:HA	1:A:104:TYR:OH	2.18	0.44
1:A:106:LEU:HD12	1:A:106:LEU:HA	1.79	0.44
1:A:186:THR:O	1:A:190:MLY:HG2	2.17	0.44
1:A:346:ASP:O	1:A:350:ALA:N	2.46	0.44
1:A:642:LYS:NZ	4:8:340:TRP:O	2.50	0.44
2:B:129:THR:HG23	2:B:132:GLU:OE1	2.18	0.44
3:C:69:LEU:HB3	3:C:70:PRO:HD3	1.99	0.44
1:D:278:GLN:HE21	1:D:278:GLN:HB3	1.42	0.44
3:F:69:LEU:HB3	3:F:70:PRO:HD3	1.99	0.44
1:G:37:SER:O	1:G:38:VAL:HG23	2.17	0.44
1:G:107:MLY:CB	1:G:686:MET:HE2	2.37	0.44
1:G:155:ILE:HG22	1:G:156:PHE:N	2.33	0.44
1:G:179:GLY:O	1:G:185:LYS:HE2	2.17	0.44
1:G:725:ARG:CG	1:G:733:PRO:HA	2.43	0.44
1:G:817:GLN:CB	2:H:127:ARG:CD	2.94	0.44
1:G:829:TRP:O	1:G:832:MET:N	2.50	0.44
1:J:64:THR:HB	1:J:68:GLU:N	2.33	0.44
1:J:534:SER:HB2	4:W:354:GLN:HE22	1.56	0.44
1:J:568:PRO:CG	1:J:578:HIS:H	2.30	0.44
1:J:639:GLY:H	4:W:344:SER:HB3	1.83	0.44
1:J:711:PHE:HB3	1:J:766:PHE:HB3	1.99	0.44
1:J:725:ARG:CG	1:J:733:PRO:CA	2.95	0.44
1:P:224:SER:O	1:P:227:PRO:HD2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:689:GLU:HA	1:P:692:LEU:HB2	2.00	0.44
1:P:725:ARG:CG	1:P:733:PRO:CA	2.95	0.44
1:P:804:ARG:NH2	3:R:149:VAL:CB	2.79	0.44
2:Q:137:TRP:CZ3	2:Q:145:ALA:N	2.81	0.44
4:0:246:GLN:HG2	4:Y:325:MET:HE2	1.98	0.44
4:0:290:ARG:HH21	4:2:202:THR:HG22	1.82	0.44
4:7:223:PHE:HB3	4:7:259:GLU:OE2	2.18	0.44
4:V:190:MET:O	4:V:194:THR:HG23	2.16	0.44
4:Y:223:PHE:HB3	4:Y:259:GLU:OE2	2.18	0.44
1:A:14:ALA:N	1:A:15:PRO:HD2	2.32	0.44
1:D:91:MET:CE	1:D:119:SER:HB2	2.47	0.44
1:D:322:VAL:CG1	1:D:325:ILE:HD11	2.47	0.44
1:D:410:ASN:HA	4:9:334:GLU:HB3	1.29	0.44
1:D:689:GLU:HA	1:D:692:LEU:HB2	1.99	0.44
1:D:692:LEU:O	1:D:696:ARG:HG3	2.18	0.44
1:G:103:LEU:HD22	1:G:692:LEU:HG	1.98	0.44
1:G:320:ILE:O	1:G:320:ILE:HG22	2.18	0.44
1:G:493:HIS:O	1:G:496:PHE:HB3	2.18	0.44
1:G:692:LEU:O	1:G:696:ARG:HG3	2.18	0.44
1:G:795:ARG:CZ	3:I:116:GLU:OE1	2.58	0.44
1:G:819:ASN:HD21	2:H:92:ASP:CA	2.30	0.44
2:H:129:THR:HG23	2:H:132:GLU:OE1	2.17	0.44
1:J:99:GLU:N	1:J:100:PRO:CD	2.80	0.44
1:J:155:ILE:HG22	1:J:156:PHE:N	2.33	0.44
1:J:486:MLY:HH22	1:J:527:GLU:CD	2.37	0.44
1:J:543:PRO:CD	4:W:143:TYR:O	2.64	0.44
1:J:835:PHE:O	1:J:839:MLY:N	2.49	0.44
1:P:202:SER:HA	1:P:207:LYS:NZ	2.22	0.44
1:P:322:VAL:HA	1:P:323:PRO:HD3	1.87	0.44
1:P:436:MLY:HE3	1:P:626:TYR:HE1	1.77	0.44
1:P:597:GLU:O	1:P:600:MLY:N	2.50	0.44
1:P:715:VAL:HG12	1:P:720:PHE:HB2	2.00	0.44
1:P:793:ARG:O	1:P:797:PHE:N	2.39	0.44
4:0:223:PHE:HB3	4:0:259:GLU:OE2	2.18	0.44
4:1:6:THR:HG22	4:1:101:HIS:HA	1.98	0.44
4:2:223:PHE:HB3	4:2:259:GLU:OE2	2.18	0.44
4:9:32:PRO:HB2	4:9:34:ILE:HD11	1.98	0.44
4:V:287:ILE:HG13	4:X:202:THR:HG23	1.65	0.44
1:A:123:CYS:CB	1:A:158:ILE:HD13	2.48	0.44
1:A:193:ILE:HD11	1:A:250:ILE:CD1	2.48	0.44
1:A:226:ASN:N	1:A:227:PRO:HD2	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:516:GLY:O	1:A:518:ASP:N	2.51	0.44
1:A:642:LYS:HG3	4:8:23:GLY:CA	2.31	0.44
1:A:692:LEU:O	1:A:696:ARG:HG3	2.18	0.44
1:A:711:PHE:HB3	1:A:766:PHE:HB3	1.99	0.44
3:C:101:THR:HA	3:C:137:ILE:O	2.18	0.44
1:D:106:LEU:HD12	1:D:106:LEU:HA	1.79	0.44
1:D:292:MET:HE1	1:D:309:PRO:CG	2.48	0.44
1:D:711:PHE:HB3	1:D:766:PHE:HB3	1.99	0.44
1:D:834:LEU:CD2	2:E:50:THR:HG22	2.47	0.44
2:E:129:THR:HG23	2:E:132:GLU:OE1	2.18	0.44
1:G:136:ASN:O	1:G:139:VAL:N	2.47	0.44
1:G:502:GLU:OE2	1:G:760:PHE:O	2.35	0.44
1:G:715:VAL:HG11	1:G:720:PHE:CD1	2.50	0.44
1:G:830:PRO:HG3	2:H:67:MET:HE2	1.96	0.44
1:J:91:MET:CE	1:J:119:SER:HB2	2.47	0.44
1:J:103:LEU:HD22	1:J:692:LEU:HG	1.98	0.44
1:J:144:ARG:HA	1:J:144:ARG:HD2	1.78	0.44
1:J:530:MET:CE	4:W:354:GLN:HG3	2.35	0.44
1:J:540:CYS:C	4:W:349:LEU:HD21	2.36	0.44
1:J:642:LYS:CB	4:W:24:ASP:O	2.60	0.44
1:J:792:ALA:HB2	3:L:42:THR:H	1.79	0.44
1:J:795:ARG:HE	3:L:116:GLU:HB3	1.81	0.44
1:P:195:TYR:CE2	1:P:199:ILE:HD12	2.52	0.44
1:P:346:ASP:O	1:P:350:ALA:N	2.45	0.44
1:P:411:GLU:H	4:0:333:PRO:CB	2.30	0.44
1:P:516:GLY:O	1:P:518:ASP:N	2.51	0.44
1:P:540:CYS:C	4:0:349:LEU:HD21	2.36	0.44
1:P:725:ARG:NE	3:R:93:VAL:HG11	2.32	0.44
1:P:776:GLU:O	1:P:780:ASP:N	2.45	0.44
2:Q:129:THR:HG23	2:Q:132:GLU:OE1	2.17	0.44
4:Z:220:ALA:HB3	4:Z:223:PHE:CD1	2.53	0.44
1:A:103:LEU:HD22	1:A:692:LEU:HG	1.98	0.44
1:A:485:GLU:HA	1:A:584:TYR:HE2	1.83	0.44
1:A:506:GLU:HG3	1:A:760:PHE:HD1	1.52	0.44
2:B:112:ILE:O	2:B:148:VAL:HA	2.16	0.44
1:D:202:SER:HA	1:D:207:LYS:NZ	2.23	0.44
1:D:292:MET:HE3	1:D:309:PRO:CA	2.45	0.44
1:G:214:MET:CA	1:G:340:ILE:HD11	2.45	0.44
1:G:330:GLU:O	1:G:333:ALA:HB3	2.17	0.44
1:G:629:GLU:HG2	1:G:643:GLY:C	2.36	0.44
1:G:725:ARG:CZ	1:G:733:PRO:CB	2.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:50:LEU:O	3:I:53:PRO:HG2	2.18	0.44
1:J:195:TYR:CE2	1:J:199:ILE:HD12	2.52	0.44
1:J:692:LEU:O	1:J:696:ARG:HG3	2.18	0.44
1:J:710:GLY:HA2	1:J:772:LEU:HD21	1.77	0.44
3:L:119:THR:O	3:L:123:VAL:HG23	2.18	0.44
3:L:122:GLU:HA	3:L:125:GLU:OE1	2.18	0.44
1:P:308:ASN:HA	1:P:309:PRO:HD2	1.88	0.44
1:P:354:LEU:HD12	1:P:354:LEU:HA	1.55	0.44
1:P:493:HIS:O	1:P:496:PHE:HB3	2.18	0.44
1:P:612:GLN:NE2	1:P:627:GLY:H	2.14	0.44
1:P:667:THR:O	1:P:669:PRO:HD3	2.16	0.44
3:R:122:GLU:HA	3:R:125:GLU:OE1	2.18	0.44
4:8:193:LEU:O	4:8:198:TYR:HD2	2.01	0.44
4:V:223:PHE:HB3	4:V:259:GLU:OE2	2.18	0.44
4:X:220:ALA:HB3	4:X:223:PHE:CD1	2.53	0.44
4:X:324:THR:O	4:Z:245:GLY:C	2.56	0.44
4:Z:190:MET:O	4:Z:194:THR:HG23	2.16	0.44
1:A:485:GLU:OE2	1:A:584:TYR:N	2.50	0.44
1:A:639:GLY:H	4:8:344:SER:HB3	1.82	0.44
1:D:123:CYS:CB	1:D:158:ILE:HD13	2.48	0.44
1:D:485:GLU:OE1	1:D:583:HIS:ND1	2.49	0.44
1:D:541:MET:HG2	4:9:345:ILE:HG22	2.00	0.44
2:E:112:ILE:O	2:E:148:VAL:HA	2.17	0.44
1:G:224:SER:O	1:G:227:PRO:HD2	2.17	0.44
1:G:226:ASN:HB2	1:G:227:PRO:CD	2.47	0.44
1:G:322:VAL:CG1	1:G:325:ILE:HD11	2.47	0.44
1:G:725:ARG:CG	1:G:733:PRO:CA	2.95	0.44
1:J:123:CYS:CB	1:J:158:ILE:HD13	2.48	0.44
1:J:139:VAL:HG12	1:J:143:TYR:HD2	1.81	0.44
1:J:163:TYR:O	1:J:166:MET:HB3	2.17	0.44
1:J:476:GLU:CD	1:J:476:GLU:H	2.21	0.44
1:J:485:GLU:OE1	1:J:583:HIS:ND1	2.49	0.44
1:J:516:GLY:O	1:J:518:ASP:N	2.51	0.44
1:J:675:ILE:HG23	1:J:676:ILE:N	2.32	0.44
1:J:725:ARG:CZ	1:J:737:PHE:CZ	3.01	0.44
1:J:732:ILE:HG23	1:J:747:LEU:HD12	0.95	0.44
1:J:795:ARG:CD	3:L:116:GLU:OE2	2.64	0.44
3:L:101:THR:HA	3:L:137:ILE:O	2.18	0.44
1:P:55:MLY:HH23	1:P:60:VAL:HG22	1.99	0.44
1:P:91:MET:CE	1:P:119:SER:HB2	2.47	0.44
1:P:166:MET:CE	1:P:254:PHE:CD2	3.01	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:278:GLN:HE21	1:P:278:GLN:HB3	1.42	0.44
1:P:642:LYS:HB2	4:0:24:ASP:O	1.88	0.44
1:P:725:ARG:HA	1:P:732:ILE:HG22	1.99	0.44
4:1:220:ALA:HB3	4:1:223:PHE:CD1	2.53	0.44
4:5:193:LEU:O	4:5:198:TYR:HD2	2.01	0.44
4:9:253:GLU:HA	4:9:256:ARG:CG	2.42	0.44
4:V:220:ALA:HB3	4:V:223:PHE:CD1	2.53	0.44
1:A:97:LEU:HD12	1:A:97:LEU:HA	1.67	0.44
1:A:173:GLN:HG3	1:A:670:HIS:HD2	1.82	0.44
1:A:174:SER:OG	1:A:669:PRO:HA	2.18	0.44
1:A:439:LEU:N	1:A:439:LEU:CD1	2.81	0.44
1:A:530:MET:CE	4:8:354:GLN:CB	2.96	0.44
1:A:530:MET:CB	4:8:354:GLN:CB	2.95	0.44
1:A:675:ILE:HG23	1:A:676:ILE:N	2.32	0.44
1:A:709:LYS:O	1:A:710:GLY:HA2	2.12	0.44
1:A:715:VAL:HG12	1:A:720:PHE:HB2	2.00	0.44
1:A:768:MLY:HB3	1:A:771:LEU:CG	2.40	0.44
3:C:122:GLU:HA	3:C:125:GLU:OE1	2.18	0.44
1:D:195:TYR:CE2	1:D:199:ILE:HD12	2.52	0.44
1:D:541:MET:HB3	4:9:345:ILE:HG22	2.00	0.44
1:D:640:LYS:C	1:D:645:SER:HG	2.09	0.44
1:D:747:LEU:C	1:D:749:GLY:N	2.71	0.44
1:G:123:CYS:CB	1:G:158:ILE:HD13	2.48	0.44
1:G:163:TYR:O	1:G:166:MET:HB3	2.17	0.44
1:G:195:TYR:CE2	1:G:199:ILE:HD12	2.52	0.44
1:G:410:ASN:HA	4:V:334:GLU:HB3	1.28	0.44
1:G:675:ILE:HG23	1:G:676:ILE:N	2.32	0.44
1:G:747:LEU:C	1:G:749:GLY:N	2.71	0.44
1:G:747:LEU:C	1:G:749:GLY:H	2.20	0.44
1:G:834:LEU:HD12	2:H:51:PHE:CD1	2.51	0.44
1:J:129:TYR:HD1	1:J:129:TYR:HA	1.65	0.44
1:J:411:GLU:H	4:W:333:PRO:CB	2.30	0.44
1:P:123:CYS:CB	1:P:158:ILE:HD13	2.48	0.44
1:P:155:ILE:HG22	1:P:156:PHE:N	2.32	0.44
1:P:193:ILE:HD11	1:P:250:ILE:CD1	2.47	0.44
1:P:541:MET:CE	4:0:346:LEU:HD12	2.47	0.44
1:P:792:ALA:CA	3:R:42:THR:HG23	2.40	0.44
4:1:204:ALA:H	4:Z:287:ILE:HG22	1.75	0.44
4:1:243:PRO:C	4:Z:324:THR:OG1	2.53	0.44
4:2:223:PHE:CD2	4:2:259:GLU:HG3	2.52	0.44
4:W:205:GLU:O	4:W:208:ILE:HG22	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Z:223:PHE:HB3	4:Z:259:GLU:OE2	2.18	0.44
1:A:123:CYS:HB2	1:A:158:ILE:HD13	2.00	0.44
1:A:391:GLY:HA3	1:A:616:VAL:HG23	2.00	0.44
1:A:725:ARG:CZ	1:A:737:PHE:CZ	3.01	0.44
1:A:813:ILE:HG21	2:B:127:ARG:CG	2.48	0.44
1:D:266:GLU:OE1	1:D:659:MLY:NZ	2.51	0.44
1:D:418:THR:CG2	1:D:419:VAL:N	2.79	0.44
1:D:485:GLU:OE2	1:D:584:TYR:N	2.50	0.44
1:D:667:THR:O	1:D:669:PRO:HD3	2.17	0.44
3:F:101:THR:HA	3:F:137:ILE:O	2.18	0.44
1:G:14:ALA:N	1:G:15:PRO:CD	2.81	0.44
1:G:93:MET:SD	1:G:715:VAL:C	2.95	0.44
1:G:175:ILE:C	1:G:176:LEU:HD12	2.38	0.44
1:G:309:PRO:C	1:G:311:ASP:H	2.22	0.44
1:G:439:LEU:N	1:G:439:LEU:CD1	2.81	0.44
1:J:55:MLY:HH23	1:J:60:VAL:HG22	1.99	0.44
1:J:93:MET:CE	1:J:716:LEU:HD12	2.48	0.44
1:J:439:LEU:N	1:J:439:LEU:CD1	2.81	0.44
1:J:493:HIS:O	1:J:496:PHE:HB3	2.18	0.44
1:J:787:ILE:HG21	1:J:787:ILE:HD13	1.67	0.44
1:J:797:PHE:CE1	3:L:146:ILE:HA	2.37	0.44
3:L:50:LEU:O	3:L:53:PRO:HG2	2.18	0.44
1:P:139:VAL:HG12	1:P:143:TYR:HD2	1.81	0.44
1:P:476:GLU:CD	1:P:476:GLU:H	2.22	0.44
1:P:485:GLU:HA	1:P:584:TYR:HE2	1.83	0.44
1:P:486:MLY:HH22	1:P:527:GLU:CD	2.37	0.44
1:P:725:ARG:CZ	1:P:737:PHE:CZ	3.01	0.44
1:P:800:ARG:O	3:R:149:VAL:CG2	2.59	0.44
2:Q:112:ILE:O	2:Q:148:VAL:N	2.50	0.44
4:3:324:THR:HG23	4:5:244:ASP:O	2.17	0.44
4:V:366:GLY:O	4:V:369:ILE:HG22	2.16	0.44
1:A:175:ILE:C	1:A:176:LEU:HD12	2.38	0.43
1:A:217:THR:HG22	1:A:218:LEU:N	2.33	0.43
1:A:639:GLY:CA	4:8:344:SER:O	2.40	0.43
1:D:48:VAL:HA	1:D:104:TYR:OH	2.17	0.43
1:D:123:CYS:HB2	1:D:158:ILE:HD13	2.00	0.43
1:D:173:GLN:HG3	1:D:670:HIS:HD2	1.82	0.43
1:D:439:LEU:N	1:D:439:LEU:CD1	2.81	0.43
1:D:516:GLY:O	1:D:518:ASP:N	2.51	0.43
1:D:530:MET:CB	4:9:354:GLN:CB	2.95	0.43
1:D:727:LEU:N	1:D:782:MLY:HE3	2.29	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:193:ILE:HD11	1:G:250:ILE:CD1	2.48	0.43
1:G:578:HIS:HB3	1:G:592:ILE:CD1	2.38	0.43
1:G:715:VAL:HG12	1:G:720:PHE:HB2	2.00	0.43
1:G:725:ARG:CZ	1:G:737:PHE:CZ	3.01	0.43
1:J:48:VAL:HA	1:J:104:TYR:OH	2.18	0.43
1:J:174:SER:OG	1:J:669:PRO:HA	2.18	0.43
1:J:246:PHE:HB3	1:J:270:LEU:HD12	2.00	0.43
1:J:443:ILE:HG22	1:J:444:ARG:N	2.29	0.43
1:J:529:PRO:HB3	4:W:354:GLN:HA	1.99	0.43
1:J:541:MET:HB3	4:W:345:ILE:HG22	2.00	0.43
1:J:756:THR:HG23	1:J:776:GLU:OE1	2.12	0.43
1:J:759:ALA:O	1:J:766:PHE:N	2.32	0.43
3:L:69:LEU:HB3	3:L:70:PRO:HD3	1.99	0.43
1:P:17:LEU:HD12	1:P:17:LEU:HA	1.68	0.43
1:P:439:LEU:N	1:P:439:LEU:CD1	2.81	0.43
1:P:675:ILE:HG23	1:P:676:ILE:N	2.33	0.43
1:P:747:LEU:C	1:P:749:GLY:H	2.20	0.43
4:3:193:LEU:O	4:3:198:TYR:HD2	2.01	0.43
4:3:287:ILE:HB	4:5:204:ALA:H	1.83	0.43
4:4:193:LEU:O	4:4:198:TYR:HD2	2.01	0.43
4:7:288:ASP:CA	4:9:204:ALA:HB2	2.31	0.43
4:X:290:ARG:NH2	4:Z:201:VAL:HG21	2.33	0.43
1:A:201:ALA:O	1:A:202:SER:OG	2.36	0.43
1:A:534:SER:CB	4:8:351:THR:HA	2.48	0.43
1:A:549:SER:C	4:V:45:VAL:O	2.56	0.43
1:A:673:ARG:HA	1:A:673:ARG:HD2	1.79	0.43
1:A:701:LEU:HA	1:A:701:LEU:HD12	1.54	0.43
1:A:795:ARG:HD2	3:C:43:ASN:CG	2.38	0.43
1:D:55:MLY:HH23	1:D:60:VAL:HG22	1.99	0.43
1:D:206:LYS:CE	1:D:217:THR:HG23	2.30	0.43
1:D:485:GLU:HA	1:D:584:TYR:HE2	1.83	0.43
1:D:540:CYS:C	4:9:349:LEU:HD21	2.36	0.43
1:D:701:LEU:HD12	1:D:701:LEU:HA	1.55	0.43
2:E:123:THR:HA	3:F:19:ARG:HH12	1.83	0.43
3:F:122:GLU:HA	3:F:125:GLU:OE1	2.18	0.43
1:G:48:VAL:HA	1:G:104:TYR:OH	2.18	0.43
1:G:332:MET:H	1:G:332:MET:HG2	1.52	0.43
1:G:391:GLY:HA3	1:G:616:VAL:HG23	2.01	0.43
1:G:639:GLY:H	4:V:344:SER:HB3	1.83	0.43
3:I:101:THR:HA	3:I:137:ILE:O	2.18	0.43
1:J:193:ILE:HD11	1:J:250:ILE:CD1	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:206:LYS:CE	1:J:217:THR:HG23	2.29	0.43
1:J:409:GLY:N	1:J:636:LYS:CD	2.70	0.43
2:K:114:LYS:CG	2:K:146:GLY:HA2	2.46	0.43
1:P:174:SER:OG	1:P:669:PRO:HA	2.18	0.43
1:P:179:GLY:O	1:P:185:LYS:HE2	2.17	0.43
1:P:529:PRO:HB3	4:0:354:GLN:HA	2.00	0.43
1:P:530:MET:CB	4:0:354:GLN:CB	2.95	0.43
1:P:639:GLY:H	4:0:344:SER:HB3	1.83	0.43
1:P:793:ARG:NH2	3:R:87:PHE:CE1	2.80	0.43
1:P:804:ARG:O	1:P:808:GLU:CG	2.66	0.43
4:0:299:MET:HE2	4:0:331:ALA:HB2	2.00	0.43
4:2:205:GLU:O	4:2:208:ILE:HG22	2.18	0.43
4:2:290:ARG:CZ	4:4:202:THR:HG22	2.37	0.43
4:4:149:THR:HA	4:4:165:ILE:O	2.19	0.43
4:4:223:PHE:HB3	4:4:259:GLU:OE2	2.18	0.43
4:8:220:ALA:HB3	4:8:223:PHE:CD1	2.53	0.43
4:X:286:ASP:OD2	4:Z:203:THR:HG22	2.18	0.43
4:X:287:ILE:O	4:Z:205:GLU:OE2	2.36	0.43
1:A:40:VAL:HG23	1:A:76:GLN:O	2.18	0.43
1:A:86:ASP:OD2	1:A:87:MLY:HH22	2.18	0.43
1:A:94:MET:O	1:A:713:SER:CB	2.65	0.43
1:A:109:ARG:CD	1:A:117:THR:HB	2.48	0.43
1:A:496:PHE:HB2	1:A:515:PHE:CD2	2.53	0.43
1:A:506:GLU:CD	1:A:761:GLY:N	2.65	0.43
1:A:747:LEU:C	1:A:749:GLY:N	2.71	0.43
1:A:823:PHE:HE1	2:B:161:GLU:H	1.65	0.43
3:C:52:ASN:CB	3:C:53:PRO:CD	2.92	0.43
1:D:40:VAL:HG23	1:D:76:GLN:O	2.19	0.43
1:D:64:THR:CG2	1:D:65:GLU:H	2.32	0.43
1:D:218:LEU:HD22	1:D:222:ILE:HG13	1.95	0.43
1:D:346:ASP:O	1:D:350:ALA:N	2.46	0.43
1:D:391:GLY:HA3	1:D:616:VAL:HG23	2.00	0.43
1:D:673:ARG:HD2	1:D:673:ARG:HA	1.79	0.43
1:D:725:ARG:CZ	1:D:737:PHE:CZ	3.01	0.43
1:D:810:ARG:HG2	1:D:810:ARG:NH1	2.29	0.43
2:E:139:ALA:C	2:E:141:PRO:HD3	2.33	0.43
1:G:266:GLU:OE1	1:G:659:MLY:NZ	2.51	0.43
1:G:322:VAL:CG1	1:G:325:ILE:HG13	2.49	0.43
1:G:815:CYS:SG	2:H:92:ASP:CG	2.97	0.43
3:I:69:LEU:HB3	3:I:70:PRO:HD3	1.99	0.43
3:I:119:THR:O	3:I:123:VAL:HG23	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:354:LEU:HD12	1:J:354:LEU:HA	1.55	0.43
1:J:391:GLY:HA3	1:J:616:VAL:HG23	2.01	0.43
1:J:496:PHE:HB2	1:J:515:PHE:CD2	2.53	0.43
1:J:541:MET:HG2	4:W:345:ILE:HG22	2.00	0.43
2:K:137:TRP:CA	2:K:145:ALA:HB2	2.37	0.43
1:P:103:LEU:HD22	1:P:692:LEU:HG	1.98	0.43
1:P:391:GLY:HA3	1:P:616:VAL:HG23	2.01	0.43
1:P:485:GLU:OE1	1:P:583:HIS:ND1	2.49	0.43
4:0:193:LEU:O	4:0:198:TYR:HD2	2.01	0.43
4:1:223:PHE:HB3	4:1:259:GLU:OE2	2.18	0.43
4:2:290:ARG:NH1	4:4:202:THR:CG2	2.75	0.43
4:3:220:ALA:HB3	4:3:223:PHE:CD1	2.53	0.43
4:4:205:GLU:O	4:4:208:ILE:HG22	2.18	0.43
4:7:193:LEU:O	4:7:198:TYR:HD2	2.01	0.43
4:W:149:THR:HA	4:W:165:ILE:O	2.19	0.43
4:X:223:PHE:HB3	4:X:259:GLU:OE2	2.18	0.43
4:Z:193:LEU:O	4:Z:198:TYR:HD2	2.01	0.43
1:A:14:ALA:N	1:A:15:PRO:CD	2.81	0.43
1:A:322:VAL:CG1	1:A:325:ILE:HG13	2.49	0.43
1:A:330:GLU:HG2	1:A:330:GLU:H	1.55	0.43
1:A:348:MLY:HH12	1:A:348:MLY:HD2	1.82	0.43
1:A:505:MLY:HB2	1:A:762:HIS:N	2.31	0.43
1:A:775:LEU:HA	1:A:775:LEU:HD12	1.71	0.43
1:D:41:VAL:CG1	1:D:42:HIS:N	2.75	0.43
1:D:134:VAL:C	1:D:136:ASN:H	2.16	0.43
1:D:322:VAL:CG1	1:D:325:ILE:HG13	2.49	0.43
1:D:400:ALA:CB	1:D:606:THR:HG22	2.48	0.43
1:D:493:HIS:O	1:D:496:PHE:HB3	2.18	0.43
1:D:541:MET:CE	4:9:346:LEU:HD12	2.47	0.43
1:D:725:ARG:CZ	1:D:737:PHE:CE1	3.02	0.43
1:D:829:TRP:O	1:D:832:MET:N	2.50	0.43
3:F:119:THR:O	3:F:123:VAL:HG23	2.18	0.43
1:G:174:SER:OG	1:G:669:PRO:HA	2.18	0.43
1:G:217:THR:HG22	1:G:218:LEU:N	2.34	0.43
1:G:226:ASN:N	1:G:227:PRO:HD2	2.32	0.43
1:G:692:LEU:HD23	1:G:692:LEU:HA	1.84	0.43
1:G:724:TYR:HB3	1:G:727:LEU:CD1	2.48	0.43
3:I:122:GLU:HA	3:I:125:GLU:OE1	2.18	0.43
1:J:400:ALA:CB	1:J:606:THR:HG22	2.49	0.43
1:J:599:ASN:CG	1:J:649:VAL:CB	2.80	0.43
1:J:724:TYR:HB3	1:J:727:LEU:CD1	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:84:MLY:HD2	1:P:724:TYR:HH	1.78	0.43
1:P:93:MET:O	1:P:713:SER:HB3	2.17	0.43
1:P:400:ALA:CB	1:P:606:THR:HG22	2.49	0.43
1:P:787:ILE:HG23	1:P:791:GLN:HG3	2.00	0.43
4:1:193:LEU:O	4:1:198:TYR:HD2	2.01	0.43
4:2:149:THR:HA	4:2:165:ILE:O	2.19	0.43
4:7:287:ILE:CB	4:9:204:ALA:H	2.13	0.43
4:8:149:THR:HA	4:8:165:ILE:O	2.19	0.43
4:V:290:ARG:NH1	4:X:202:THR:CG2	2.81	0.43
4:Y:193:LEU:O	4:Y:198:TYR:HD2	2.01	0.43
4:Y:205:GLU:O	4:Y:208:ILE:HG22	2.18	0.43
1:A:151:ALA:HB1	1:A:152:PRO:HD2	2.01	0.43
1:A:266:GLU:OE1	1:A:659:MLY:NZ	2.51	0.43
1:A:485:GLU:OE1	1:A:583:HIS:ND1	2.49	0.43
1:A:537:GLU:OE1	4:8:350:SER:HA	2.19	0.43
1:A:715:VAL:HG11	1:A:720:PHE:CD1	2.50	0.43
1:D:224:SER:O	1:D:227:PRO:HD2	2.17	0.43
1:D:246:PHE:HB3	1:D:270:LEU:HD12	2.01	0.43
1:D:354:LEU:HD12	1:D:354:LEU:HA	1.56	0.43
1:D:530:MET:HA	4:9:354:GLN:CD	2.11	0.43
1:D:715:VAL:HG12	1:D:720:PHE:HB2	2.00	0.43
1:D:732:ILE:HD11	1:D:782:MLY:HH11	1.95	0.43
1:G:201:ALA:O	1:G:202:SER:OG	2.36	0.43
1:G:295:MLY:CE	1:G:332:MET:CE	2.97	0.43
1:G:496:PHE:HB2	1:G:515:PHE:CD2	2.53	0.43
1:G:787:ILE:HG21	1:G:787:ILE:HD13	1.67	0.43
1:J:64:THR:CG2	1:J:65:GLU:H	2.31	0.43
1:J:217:THR:HG22	1:J:218:LEU:N	2.34	0.43
1:J:308:ASN:HA	1:J:309:PRO:HD2	1.88	0.43
1:J:322:VAL:CG1	1:J:325:ILE:HG13	2.49	0.43
1:J:485:GLU:OE2	1:J:584:TYR:N	2.50	0.43
1:J:576:GLU:CG	1:J:577:ALA:N	2.44	0.43
1:J:757:GLN:N	1:J:776:GLU:CB	2.77	0.43
1:P:93:MET:O	1:P:713:SER:CB	2.66	0.43
1:P:94:MET:C	1:P:713:SER:HB3	2.31	0.43
1:P:163:TYR:O	1:P:166:MET:HB3	2.17	0.43
1:P:530:MET:CE	4:0:354:GLN:CB	2.95	0.43
1:P:537:GLU:OE1	4:0:350:SER:HA	2.19	0.43
1:P:725:ARG:CZ	1:P:737:PHE:CE1	3.02	0.43
1:P:733:PRO:CB	3:R:93:VAL:HG21	2.48	0.43
3:R:69:LEU:HB3	3:R:70:PRO:HD3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:0:205:GLU:O	4:0:208:ILE:HG22	2.18	0.43
4:5:171:LEU:HA	4:5:172:PRO:HD2	1.84	0.43
4:7:205:GLU:O	4:7:208:ILE:HG22	2.18	0.43
4:V:193:LEU:O	4:V:198:TYR:HD2	2.01	0.43
4:W:220:ALA:HB3	4:W:223:PHE:CD1	2.53	0.43
4:Z:149:THR:HA	4:Z:165:ILE:O	2.18	0.43
1:A:129:TYR:HD1	1:A:129:TYR:HA	1.65	0.43
1:A:295:MLY:CE	1:A:332:MET:CE	2.96	0.43
1:A:400:ALA:CB	1:A:606:THR:HG22	2.48	0.43
1:A:436:MLY:HE3	1:A:626:TYR:HE1	1.77	0.43
1:A:442:VAL:O	1:A:445:ILE:HB	2.19	0.43
1:A:625:THR:H	1:A:625:THR:HG22	1.48	0.43
1:A:787:ILE:HG23	1:A:791:GLN:HG3	2.00	0.43
1:A:797:PHE:CD1	3:C:146:ILE:CA	2.96	0.43
1:D:155:ILE:HG22	1:D:156:PHE:N	2.33	0.43
1:D:166:MET:CE	1:D:254:PHE:CD2	3.01	0.43
1:D:226:ASN:HB2	1:D:227:PRO:CD	2.47	0.43
1:D:724:TYR:HB3	1:D:727:LEU:CD1	2.48	0.43
1:G:40:VAL:HG23	1:G:76:GLN:O	2.19	0.43
1:G:292:MET:CE	1:G:309:PRO:CA	2.97	0.43
1:G:486:MLY:HH22	1:G:527:GLU:CD	2.37	0.43
1:G:568:PRO:CG	1:G:578:HIS:H	2.30	0.43
1:G:689:GLU:HA	1:G:692:LEU:HB2	1.99	0.43
1:G:754:ASP:CA	1:G:776:GLU:OE2	2.59	0.43
1:J:14:ALA:N	1:J:15:PRO:CD	2.82	0.43
1:J:266:GLU:OE1	1:J:659:MLY:NZ	2.51	0.43
1:J:292:MET:CE	1:J:309:PRO:CA	2.97	0.43
1:J:537:GLU:OE1	4:W:350:SER:HA	2.19	0.43
1:J:725:ARG:NE	1:J:733:PRO:CB	1.95	0.43
1:J:793:ARG:O	1:J:797:PHE:N	2.39	0.43
1:P:266:GLU:OE1	1:P:659:MLY:NZ	2.51	0.43
1:P:408:VAL:HG22	1:P:636:LYS:HG2	1.52	0.43
1:P:643:GLY:CA	4:0:24:ASP:OD1	2.61	0.43
1:P:692:LEU:O	1:P:696:ARG:HG3	2.18	0.43
1:P:723:ARG:CG	1:P:723:ARG:NH1	2.79	0.43
1:P:786:ILE:C	1:P:787:ILE:CG2	2.73	0.43
3:R:101:THR:HA	3:R:137:ILE:O	2.18	0.43
4:0:243:PRO:C	4:Y:291:LYS:HZ1	2.21	0.43
4:3:223:PHE:HB3	4:3:259:GLU:OE2	2.18	0.43
4:5:149:THR:HA	4:5:165:ILE:O	2.19	0.43
4:5:220:ALA:HB3	4:5:223:PHE:CD1	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:7:149:THR:HA	4:7:165:ILE:O	2.19	0.43
4:V:149:THR:HA	4:V:165:ILE:O	2.19	0.43
1:A:320:ILE:O	1:A:320:ILE:HG22	2.18	0.43
1:A:476:GLU:H	1:A:476:GLU:CD	2.21	0.43
1:A:486:MLY:HH22	1:A:527:GLU:CD	2.37	0.43
1:A:500:GLN:HB2	1:A:512:PHE:CZ	2.54	0.43
1:A:529:PRO:HB3	4:8:354:GLN:HA	2.00	0.43
1:A:568:PRO:CG	1:A:578:HIS:H	2.30	0.43
1:A:612:GLN:NE2	1:A:627:GLY:H	2.15	0.43
1:A:733:PRO:O	1:A:737:PHE:CE1	2.53	0.43
1:A:754:ASP:H	1:A:775:LEU:HD11	1.84	0.43
1:A:791:GLN:OE1	3:C:116:GLU:N	2.50	0.43
3:C:119:THR:O	3:C:123:VAL:HG23	2.18	0.43
1:D:144:ARG:HA	1:D:144:ARG:HD2	1.78	0.43
1:D:193:ILE:HD11	1:D:250:ILE:CD1	2.48	0.43
1:D:295:MLY:HG3	1:D:332:MET:HE2	2.00	0.43
1:D:507:GLY:HA3	1:D:762:HIS:N	2.33	0.43
1:D:639:GLY:H	4:9:344:SER:HB3	1.83	0.43
1:D:725:ARG:HA	1:D:732:ILE:HG22	1.99	0.43
1:D:819:ASN:N	2:E:90:GLY:C	2.71	0.43
1:G:86:ASP:OD2	1:G:87:MLY:HH22	2.19	0.43
1:G:476:GLU:H	1:G:476:GLU:CD	2.21	0.43
1:G:516:GLY:O	1:G:518:ASP:N	2.51	0.43
1:G:834:LEU:CD1	2:H:51:PHE:CD1	3.02	0.43
2:H:114:LYS:CG	2:H:146:GLY:HA2	2.46	0.43
3:I:11:LYS:HE2	3:I:11:LYS:HB3	1.83	0.43
1:J:123:CYS:HB2	1:J:158:ILE:HD13	2.00	0.43
1:J:136:ASN:HA	1:J:137:PRO:HD3	1.49	0.43
1:J:224:SER:O	1:J:227:PRO:HD2	2.17	0.43
1:J:322:VAL:HA	1:J:323:PRO:HD3	1.87	0.43
1:J:541:MET:CE	4:W:346:LEU:HD12	2.47	0.43
1:J:747:LEU:C	1:J:749:GLY:N	2.71	0.43
1:J:783:LEU:HA	1:J:786:ILE:HB	1.99	0.43
1:J:829:TRP:HA	1:J:830:PRO:HD2	1.86	0.43
1:P:64:THR:CG2	1:P:65:GLU:H	2.32	0.43
1:P:246:PHE:HB3	1:P:270:LEU:HD12	2.01	0.43
1:P:292:MET:CE	1:P:309:PRO:CA	2.97	0.43
1:P:322:VAL:CG1	1:P:325:ILE:HD11	2.47	0.43
4:4:220:ALA:HB3	4:4:223:PHE:CD1	2.53	0.43
1:A:309:PRO:C	1:A:311:ASP:H	2.22	0.43
1:A:369:MLY:HH22	1:A:369:MLY:HD3	1.79	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:449:LEU:HD12	1:A:449:LEU:HA	1.60	0.43
1:A:541:MET:HB3	4:8:345:ILE:HG22	2.00	0.43
1:A:541:MET:HG2	4:8:345:ILE:HG22	2.00	0.43
1:A:632:GLY:HA3	1:A:643:GLY:N	2.17	0.43
1:A:787:ILE:HG21	1:A:787:ILE:HD13	1.67	0.43
3:C:50:LEU:O	3:C:53:PRO:HG2	2.18	0.43
1:D:174:SER:OG	1:D:669:PRO:HA	2.18	0.43
1:D:206:LYS:HD2	1:D:217:THR:CG2	2.17	0.43
1:D:292:MET:CE	1:D:309:PRO:CA	2.97	0.43
1:D:725:ARG:CG	1:D:733:PRO:CA	2.95	0.43
3:F:50:LEU:O	3:F:53:PRO:HG2	2.18	0.43
1:G:246:PHE:HB3	1:G:270:LEU:HD12	2.00	0.43
1:G:294:ASN:OD1	1:G:307:THR:HG21	2.19	0.43
1:G:500:GLN:HB2	1:G:512:PHE:CZ	2.54	0.43
1:G:787:ILE:HG23	1:G:791:GLN:HG3	2.00	0.43
1:G:791:GLN:NE2	3:I:116:GLU:H	2.16	0.43
1:G:820:VAL:CG1	2:H:136:MET:HE1	2.49	0.43
3:I:48:LYS:HA	3:I:48:LYS:HD3	1.17	0.43
1:J:201:ALA:O	1:J:202:SER:OG	2.36	0.43
1:J:309:PRO:C	1:J:311:ASP:H	2.22	0.43
1:J:442:VAL:O	1:J:445:ILE:HB	2.19	0.43
1:J:505:MLY:HG3	1:J:762:HIS:NE2	2.31	0.43
1:J:553:MLY:HE2	4:Y:45:VAL:HB	2.01	0.43
1:J:659:MLY:HH22	1:J:659:MLY:HD2	1.42	0.43
1:J:712:PRO:HB2	1:J:713:SER:H	1.61	0.43
1:J:715:VAL:HG12	1:J:720:PHE:HB2	2.00	0.43
1:J:725:ARG:CZ	1:J:737:PHE:CE1	3.02	0.43
1:J:839:MLY:HH11	2:K:158:THR:CG2	2.48	0.43
1:P:48:VAL:HA	1:P:104:TYR:OH	2.18	0.43
1:P:442:VAL:O	1:P:445:ILE:HB	2.19	0.43
1:P:659:MLY:HH22	1:P:659:MLY:HD2	1.42	0.43
1:P:804:ARG:NH2	3:R:149:VAL:CA	2.81	0.43
4:0:149:THR:HA	4:0:165:ILE:O	2.19	0.43
4:0:202:THR:O	4:Y:287:ILE:HD13	2.19	0.43
4:2:217:CYS:C	4:2:218:TYR:HD1	2.22	0.43
4:W:193:LEU:O	4:W:198:TYR:HD2	2.01	0.43
4:X:171:LEU:HA	4:X:172:PRO:HD2	1.84	0.43
4:X:193:LEU:O	4:X:198:TYR:HD2	2.01	0.43
4:Y:149:THR:HA	4:Y:165:ILE:O	2.19	0.43
1:A:91:MET:CE	1:A:119:SER:HB2	2.47	0.43
1:A:155:ILE:HG22	1:A:156:PHE:N	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:408:VAL:HG22	1:A:636:LYS:HG2	1.51	0.43
1:A:578:HIS:HB3	1:A:592:ILE:CD1	2.38	0.43
1:A:836:PHE:CD2	2:B:161:GLU:HG2	2.53	0.43
1:D:14:ALA:N	1:D:15:PRO:CD	2.81	0.43
1:D:550:PHE:C	4:W:46:GLY:CA	2.87	0.43
1:G:445:ILE:HG22	1:G:449:LEU:HD22	2.01	0.43
1:J:109:ARG:CD	1:J:117:THR:HB	2.49	0.43
1:J:169:ASP:O	1:J:170:ARG:HB2	2.19	0.43
1:J:195:TYR:CD2	1:J:199:ILE:HD13	2.54	0.43
1:J:406:VAL:O	1:J:412:ALA:HA	2.19	0.43
1:J:530:MET:CB	4:W:354:GLN:CB	2.95	0.43
1:J:798:LEU:HD12	1:J:798:LEU:HA	1.36	0.43
1:P:14:ALA:N	1:P:15:PRO:CD	2.82	0.43
1:P:169:ASP:O	1:P:170:ARG:HB2	2.19	0.43
1:P:195:TYR:CD2	1:P:199:ILE:HD13	2.54	0.43
1:P:226:ASN:HB2	1:P:227:PRO:CD	2.47	0.43
1:P:408:VAL:HA	1:P:636:LYS:HG3	1.03	0.43
1:P:712:PRO:HB2	1:P:713:SER:H	1.61	0.43
1:P:732:ILE:HG21	1:P:747:LEU:CD1	0.63	0.43
4:0:220:ALA:HB3	4:0:223:PHE:CD1	2.53	0.43
4:1:149:THR:HA	4:1:165:ILE:O	2.19	0.43
4:2:220:ALA:HB3	4:2:223:PHE:CD1	2.53	0.43
4:2:287:ILE:HG13	4:4:202:THR:HG22	1.89	0.43
4:5:205:GLU:O	4:5:208:ILE:HG22	2.18	0.43
4:7:217:CYS:C	4:7:218:TYR:HD1	2.22	0.43
4:9:220:ALA:HB3	4:9:223:PHE:CD1	2.53	0.43
4:9:324:THR:N	4:W:245:GLY:CA	2.69	0.43
4:Y:220:ALA:HB3	4:Y:223:PHE:CD1	2.53	0.43
1:A:292:MET:CE	1:A:309:PRO:CA	2.97	0.43
1:A:294:ASN:OD1	1:A:307:THR:HG21	2.19	0.43
1:A:445:ILE:HG22	1:A:449:LEU:HD22	2.01	0.43
1:A:540:CYS:C	4:8:349:LEU:HD21	2.36	0.43
1:A:836:PHE:CE2	2:B:160:GLY:O	2.72	0.43
1:A:836:PHE:CD1	2:B:159:HIS:HB2	2.47	0.43
1:D:195:TYR:CD2	1:D:199:ILE:HD13	2.54	0.43
1:D:442:VAL:O	1:D:445:ILE:HB	2.19	0.43
1:D:476:GLU:H	1:D:476:GLU:CD	2.21	0.43
1:D:519:LEU:HD12	1:D:519:LEU:H	1.83	0.43
1:D:799:MET:HE1	3:F:32:ASP:CB	2.35	0.43
3:F:49:ILE:CA	3:F:52:ASN:ND2	2.53	0.43
3:F:63:ILE:CG2	3:F:64:THR:H	2.32	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:109:ARG:CD	1:G:117:THR:HB	2.48	0.43
1:G:151:ALA:HB1	1:G:152:PRO:HD2	2.01	0.43
1:G:195:TYR:CD2	1:G:199:ILE:HD13	2.54	0.43
1:G:206:LYS:CE	1:G:217:THR:HG23	2.30	0.43
1:G:213:LYS:HA	1:G:220:ASP:OD2	2.19	0.43
1:G:643:GLY:CA	4:V:24:ASP:OD1	2.62	0.43
1:G:730:SER:HG	3:I:113:THR:HG21	1.72	0.43
1:G:795:ARG:HB3	3:I:35:ARG:NH1	2.28	0.43
3:I:63:ILE:CG2	3:I:64:THR:H	2.32	0.43
1:J:40:VAL:HG23	1:J:76:GLN:O	2.19	0.43
1:J:166:MET:CE	1:J:254:PHE:CD2	3.01	0.43
1:J:320:ILE:O	1:J:320:ILE:HG22	2.18	0.43
1:J:568:PRO:O	1:J:570:PRO:HD3	2.19	0.43
1:P:294:ASN:OD1	1:P:307:THR:HG21	2.19	0.43
1:P:330:GLU:HG2	1:P:330:GLU:H	1.54	0.43
1:P:541:MET:HB3	4:0:345:ILE:HG22	2.00	0.43
1:P:747:LEU:C	1:P:749:GLY:N	2.71	0.43
1:P:783:LEU:CB	1:P:786:ILE:CD1	2.95	0.43
3:R:50:LEU:O	3:R:53:PRO:HG2	2.18	0.43
4:1:203:THR:HG21	4:Z:288:ASP:CB	2.43	0.43
4:3:217:CYS:C	4:3:218:TYR:HD1	2.22	0.43
4:5:180:LEU:HD11	4:5:261:LEU:HD23	2.01	0.43
1:A:64:THR:CG2	1:A:65:GLU:H	2.32	0.42
1:A:195:TYR:CD2	1:A:199:ILE:HD13	2.54	0.42
1:A:246:PHE:HB3	1:A:270:LEU:HD12	2.01	0.42
1:A:402:CYS:C	1:A:404:PRO:HD3	2.40	0.42
1:A:493:HIS:O	1:A:496:PHE:HB3	2.18	0.42
1:A:533:PHE:HD1	1:A:533:PHE:HA	1.79	0.42
1:A:636:LYS:CB	4:8:334:GLU:OE1	2.67	0.42
1:A:642:LYS:HB3	4:8:24:ASP:HB2	1.37	0.42
1:A:725:ARG:CZ	1:A:733:PRO:CB	2.83	0.42
1:A:829:TRP:O	1:A:832:MET:N	2.50	0.42
1:A:842:LEU:N	1:A:842:LEU:CD1	2.82	0.42
1:D:169:ASP:O	1:D:170:ARG:HB2	2.19	0.42
1:D:529:PRO:HB3	4:9:354:GLN:HA	2.00	0.42
1:D:541:MET:HG2	4:9:345:ILE:HG23	2.01	0.42
1:D:549:SER:C	4:W:45:VAL:O	2.57	0.42
1:D:787:ILE:HG23	1:D:791:GLN:HG3	2.00	0.42
1:D:800:ARG:HD2	3:F:149:VAL:C	2.39	0.42
1:G:123:CYS:HB2	1:G:158:ILE:HD13	2.00	0.42
1:G:129:TYR:HD1	1:G:129:TYR:HA	1.65	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:442:VAL:O	1:G:445:ILE:HB	2.19	0.42
1:G:568:PRO:O	1:G:570:PRO:HD3	2.19	0.42
1:G:747:LEU:O	1:G:749:GLY:N	2.52	0.42
1:G:795:ARG:HB3	3:I:35:ARG:NH2	2.29	0.42
1:J:62:VAL:HG12	1:J:63:MLY:N	2.34	0.42
1:J:449:LEU:N	1:J:449:LEU:CD1	2.81	0.42
1:P:84:MLY:HB3	1:P:776:GLU:OE1	2.18	0.42
1:P:445:ILE:HG22	1:P:449:LEU:HD22	2.01	0.42
1:P:449:LEU:N	1:P:449:LEU:CD1	2.81	0.42
1:P:496:PHE:HB2	1:P:515:PHE:CD2	2.53	0.42
3:R:62:ALA:O	3:R:63:ILE:HG13	2.14	0.42
3:R:119:THR:O	3:R:123:VAL:HG23	2.18	0.42
4:1:217:CYS:C	4:1:218:TYR:HD1	2.22	0.42
4:2:180:LEU:HD11	4:2:261:LEU:HD23	2.01	0.42
4:4:180:LEU:HD11	4:4:261:LEU:HD23	2.01	0.42
4:8:205:GLU:O	4:8:208:ILE:HG22	2.18	0.42
4:9:205:GLU:O	4:9:208:ILE:HG22	2.18	0.42
4:9:217:CYS:C	4:9:218:TYR:HD1	2.22	0.42
4:X:222:ASP:OD1	4:X:224:GLU:HB3	2.19	0.42
4:Y:180:LEU:HD11	4:Y:261:LEU:HD23	2.01	0.42
1:A:551:MLY:C	4:V:47:MET:HA	2.48	0.42
2:B:112:ILE:O	2:B:148:VAL:N	2.50	0.42
1:D:14:ALA:HB3	1:D:15:PRO:CD	2.46	0.42
1:D:62:VAL:HG12	1:D:63:MLY:N	2.35	0.42
1:D:295:MLY:CE	1:D:332:MET:CE	2.97	0.42
1:D:320:ILE:O	1:D:320:ILE:HG22	2.17	0.42
1:G:541:MET:HG2	4:V:345:ILE:HG22	2.01	0.42
1:G:711:PHE:HB3	1:G:766:PHE:HB3	2.00	0.42
1:G:725:ARG:CZ	1:G:737:PHE:CE1	3.02	0.42
1:G:817:GLN:CD	2:H:127:ARG:CG	2.87	0.42
1:J:294:ASN:OD1	1:J:307:THR:HG21	2.19	0.42
1:J:485:GLU:HA	1:J:584:TYR:HE2	1.83	0.42
1:J:804:ARG:NH2	3:L:149:VAL:HA	2.33	0.42
3:L:52:ASN:CB	3:L:53:PRO:CD	2.92	0.42
1:P:40:VAL:HG23	1:P:76:GLN:O	2.18	0.42
1:P:93:MET:CG	1:P:715:VAL:HA	2.48	0.42
1:P:173:GLN:HG3	1:P:670:HIS:CD2	2.54	0.42
1:P:214:MET:CA	1:P:340:ILE:HD11	2.45	0.42
1:P:406:VAL:O	1:P:412:ALA:HA	2.19	0.42
1:P:533:PHE:HD1	1:P:533:PHE:HA	1.79	0.42
1:P:534:SER:CB	4:0:351:THR:HA	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:552:ASN:HB3	4:2:41:GLN:HE22	1.84	0.42
1:P:568:PRO:O	1:P:570:PRO:HD3	2.19	0.42
1:P:711:PHE:HB3	1:P:766:PHE:HB3	2.00	0.42
4:0:180:LEU:HD11	4:0:261:LEU:HD23	2.01	0.42
4:3:149:THR:HA	4:3:165:ILE:O	2.19	0.42
4:3:322:PRO:CA	4:5:244:ASP:HB2	2.49	0.42
4:7:180:LEU:HD11	4:7:261:LEU:HD23	2.01	0.42
4:8:180:LEU:HD11	4:8:261:LEU:HD23	2.01	0.42
4:X:217:CYS:C	4:X:218:TYR:HD1	2.22	0.42
1:A:62:VAL:O	1:A:69:THR:HA	2.19	0.42
1:A:330:GLU:O	1:A:333:ALA:HB3	2.17	0.42
1:A:553:MLY:HE2	4:V:45:VAL:CA	2.38	0.42
1:A:689:GLU:HA	1:A:692:LEU:HB2	2.00	0.42
1:A:692:LEU:HA	1:A:692:LEU:HD23	1.85	0.42
1:A:797:PHE:CE1	3:C:146:ILE:CG2	3.01	0.42
1:D:109:ARG:CD	1:D:117:THR:HB	2.49	0.42
1:D:217:THR:HG22	1:D:218:LEU:N	2.34	0.42
1:D:445:ILE:HG22	1:D:449:LEU:HD22	2.01	0.42
1:D:496:PHE:HB2	1:D:515:PHE:CD2	2.54	0.42
1:D:530:MET:CE	4:9:354:GLN:HG3	2.35	0.42
1:D:725:ARG:HA	1:D:732:ILE:CG2	2.50	0.42
1:G:97:LEU:HD21	1:G:712:PRO:C	2.39	0.42
1:G:141:LEU:HD12	1:G:141:LEU:N	2.32	0.42
1:J:445:ILE:HG22	1:J:449:LEU:HD22	2.01	0.42
1:J:756:THR:CG2	1:J:779:ARG:HB3	2.49	0.42
1:J:792:ALA:CB	3:L:42:THR:H	2.26	0.42
2:K:112:ILE:O	2:K:148:VAL:N	2.50	0.42
1:P:62:VAL:O	1:P:69:THR:HA	2.19	0.42
1:P:201:ALA:O	1:P:202:SER:OG	2.36	0.42
1:P:464:ILE:HD13	1:P:464:ILE:HG21	1.69	0.42
1:P:485:GLU:OE2	1:P:584:TYR:N	2.50	0.42
1:P:552:ASN:HD22	4:2:49:GLN:CD	2.02	0.42
1:P:747:LEU:O	1:P:749:GLY:N	2.52	0.42
1:P:830:PRO:CG	2:Q:67:MET:HE2	2.49	0.42
4:0:201:VAL:HG21	4:Y:290:ARG:NH2	2.34	0.42
4:0:205:GLU:CB	4:Y:287:ILE:HD13	2.48	0.42
4:4:315:LYS:HD2	4:4:315:LYS:HA	1.92	0.42
4:8:206:ARG:O	4:8:209:VAL:HG12	2.20	0.42
4:8:217:CYS:C	4:8:218:TYR:HD1	2.22	0.42
4:9:149:THR:HA	4:9:165:ILE:O	2.19	0.42
4:9:180:LEU:HD11	4:9:261:LEU:HD23	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:V:217:CYS:C	4:V:218:TYR:HD1	2.22	0.42
4:W:217:CYS:C	4:W:218:TYR:HD1	2.22	0.42
4:X:180:LEU:HD11	4:X:261:LEU:HD23	2.01	0.42
1:A:38:VAL:HG13	1:A:39:PHE:N	2.35	0.42
1:A:149:GLN:CD	1:A:716:LEU:CD2	2.55	0.42
1:A:752:ASP:OD2	1:A:782:MLY:CD	2.66	0.42
1:D:17:LEU:HA	1:D:17:LEU:HD12	1.68	0.42
1:D:723:ARG:CG	1:D:723:ARG:NH1	2.80	0.42
2:E:140:PHE:CD2	2:E:144:VAL:HG11	2.54	0.42
1:G:62:VAL:O	1:G:69:THR:HA	2.19	0.42
1:G:64:THR:CG2	1:G:65:GLU:H	2.32	0.42
1:G:93:MET:HE2	1:G:764:MLY:CD	2.36	0.42
1:G:173:GLN:HG3	1:G:670:HIS:CD2	2.55	0.42
1:G:400:ALA:CB	1:G:606:THR:HG22	2.49	0.42
1:G:406:VAL:O	1:G:412:ALA:HA	2.19	0.42
1:G:506:GLU:HG2	1:G:759:ALA:HB1	2.02	0.42
1:G:529:PRO:HB3	4:V:354:GLN:HA	2.00	0.42
1:G:534:SER:CB	4:V:351:THR:HA	2.50	0.42
1:J:86:ASP:OD2	1:J:87:MLY:HH22	2.18	0.42
1:J:173:GLN:HG3	1:J:670:HIS:CD2	2.54	0.42
1:J:175:ILE:C	1:J:176:LEU:HD12	2.38	0.42
1:J:226:ASN:HB2	1:J:227:PRO:CD	2.47	0.42
1:J:271:GLU:OE1	1:J:274:ARG:NH1	2.53	0.42
1:J:332:MET:H	1:J:332:MET:HG2	1.52	0.42
1:J:534:SER:CB	4:W:351:THR:HA	2.49	0.42
1:J:541:MET:HG2	4:W:345:ILE:HG23	2.01	0.42
1:J:787:ILE:HG23	1:J:791:GLN:HG3	2.00	0.42
1:P:86:ASP:OD2	1:P:87:MLY:HH22	2.18	0.42
1:P:109:ARG:CD	1:P:117:THR:HB	2.49	0.42
1:P:194:GLN:HE21	1:P:194:GLN:HB3	1.43	0.42
1:P:217:THR:HG22	1:P:218:LEU:N	2.34	0.42
1:P:271:GLU:OE1	1:P:274:ARG:NH1	2.53	0.42
1:P:443:ILE:HG22	1:P:444:ARG:N	2.29	0.42
1:P:730:SER:O	3:R:93:VAL:HG21	2.19	0.42
1:P:826:VAL:O	1:P:828:HIS:N	2.53	0.42
4:1:180:LEU:HD11	4:1:261:LEU:HD23	2.01	0.42
4:2:193:LEU:O	4:2:198:TYR:HD2	2.01	0.42
4:2:206:ARG:O	4:2:209:VAL:HG12	2.20	0.42
4:3:180:LEU:HD11	4:3:261:LEU:HD23	2.01	0.42
4:7:220:ALA:HB3	4:7:223:PHE:CD1	2.53	0.42
4:9:193:LEU:O	4:9:198:TYR:HD2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:W:180:LEU:HD11	4:W:261:LEU:HD23	2.01	0.42
4:X:149:THR:HA	4:X:165:ILE:O	2.19	0.42
4:Z:180:LEU:HD11	4:Z:261:LEU:HD23	2.01	0.42
4:Z:205:GLU:O	4:Z:208:ILE:HG22	2.18	0.42
4:Z:315:LYS:HD2	4:Z:315:LYS:HA	1.92	0.42
1:D:174:SER:HA	1:D:460:GLY:O	2.19	0.42
1:D:406:VAL:O	1:D:412:ALA:HA	2.19	0.42
1:D:741:LYS:HG2	1:D:742:LYS:N	2.35	0.42
1:D:826:VAL:O	1:D:828:HIS:N	2.53	0.42
1:G:505:MLY:HE3	1:G:762:HIS:NE2	2.28	0.42
1:G:797:PHE:CZ	3:I:126:LEU:CD2	2.71	0.42
1:J:278:GLN:HE21	1:J:278:GLN:HB3	1.42	0.42
1:J:462:LEU:HD11	1:J:464:ILE:CD1	2.50	0.42
1:J:530:MET:HA	4:W:354:GLN:CD	2.11	0.42
1:J:578:HIS:CD2	1:J:592:ILE:H	2.38	0.42
1:J:775:LEU:HD12	1:J:775:LEU:HA	1.71	0.42
1:P:62:VAL:HG12	1:P:63:MLY:N	2.35	0.42
1:P:63:MLY:HD3	1:P:63:MLY:HH23	1.76	0.42
1:P:322:VAL:CG1	1:P:325:ILE:HG13	2.49	0.42
1:P:449:LEU:HD12	1:P:449:LEU:HA	1.60	0.42
1:P:541:MET:HG2	4:0:345:ILE:HG23	2.01	0.42
1:P:730:SER:OG	3:R:89:GLU:CD	2.47	0.42
1:P:775:LEU:HD12	1:P:775:LEU:HA	1.71	0.42
1:P:839:MLY:N	1:P:840:PRO:HD2	2.35	0.42
1:P:842:LEU:N	1:P:842:LEU:CD1	2.83	0.42
4:0:217:CYS:C	4:0:218:TYR:HD1	2.22	0.42
4:1:196:ARG:HH21	4:1:249:THR:HG23	1.85	0.42
4:1:205:GLU:O	4:1:208:ILE:HG22	2.18	0.42
4:8:196:ARG:HH21	4:8:249:THR:HG23	1.85	0.42
4:V:180:LEU:HD11	4:V:261:LEU:HD23	2.01	0.42
4:V:205:GLU:O	4:V:208:ILE:HG22	2.18	0.42
4:X:206:ARG:O	4:X:209:VAL:HG12	2.20	0.42
4:Z:217:CYS:C	4:Z:218:TYR:HD1	2.22	0.42
1:A:169:ASP:O	1:A:170:ARG:HB2	2.19	0.42
1:A:213:LYS:HA	1:A:220:ASP:OD2	2.19	0.42
1:A:541:MET:CE	4:8:346:LEU:HD12	2.48	0.42
1:A:817:GLN:CG	2:B:127:ARG:HB3	2.46	0.42
1:D:87:MLY:HH12	1:D:87:MLY:HD3	1.61	0.42
1:D:175:ILE:C	1:D:176:LEU:HD12	2.38	0.42
1:D:534:SER:CB	4:9:351:THR:HA	2.49	0.42
1:D:599:ASN:CG	1:D:649:VAL:CB	2.80	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:692:LEU:HD23	1:D:692:LEU:HA	1.84	0.42
1:D:727:LEU:HG	1:D:782:MLY:HE2	1.10	0.42
1:D:747:LEU:O	1:D:749:GLY:N	2.52	0.42
1:D:839:MLY:N	1:D:840:PRO:HD2	2.35	0.42
1:G:839:MLY:N	1:G:840:PRO:HD2	2.35	0.42
2:H:140:PHE:CD2	2:H:144:VAL:HG11	2.55	0.42
1:J:151:ALA:HB1	1:J:152:PRO:HD2	2.01	0.42
1:J:174:SER:HA	1:J:460:GLY:O	2.20	0.42
1:J:295:MLY:CE	1:J:332:MET:CE	2.97	0.42
1:J:556:ASP:HB3	4:Y:47:MET:HB2	1.00	0.42
1:J:567:LYS:HZ1	4:Y:92:ASN:HA	1.81	0.42
1:J:732:ILE:CG2	1:J:747:LEU:HD11	1.26	0.42
3:L:63:ILE:CG2	3:L:64:THR:H	2.33	0.42
1:P:151:ALA:HB1	1:P:152:PRO:HD2	2.01	0.42
1:P:309:PRO:C	1:P:311:ASP:H	2.22	0.42
1:P:798:LEU:CD1	3:R:126:LEU:HD11	2.48	0.42
1:P:838:ILE:CD1	2:Q:54:MET:SD	3.01	0.42
4:2:222:ASP:OD1	4:2:224:GLU:HB3	2.19	0.42
4:5:206:ARG:O	4:5:209:VAL:HG12	2.20	0.42
4:7:290:ARG:HH22	4:9:202:THR:CG2	2.17	0.42
4:W:222:ASP:OD1	4:W:224:GLU:HB3	2.19	0.42
4:Y:217:CYS:C	4:Y:218:TYR:HD1	2.22	0.42
4:Y:222:ASP:OD1	4:Y:224:GLU:HB3	2.19	0.42
1:A:60:VAL:O	1:A:72:VAL:N	2.51	0.42
1:A:141:LEU:HD12	1:A:141:LEU:N	2.32	0.42
1:A:166:MET:CE	1:A:254:PHE:HB2	2.46	0.42
1:A:744:SER:O	1:A:748:LEU:HD12	2.20	0.42
1:A:839:MLY:N	1:A:840:PRO:HD2	2.35	0.42
2:B:139:ALA:O	2:B:141:PRO:CD	2.51	0.42
1:D:636:LYS:CB	4:9:334:GLU:OE1	2.68	0.42
1:D:793:ARG:HH21	3:F:147:MET:HE3	1.82	0.42
1:D:795:ARG:NH2	3:F:116:GLU:HB3	2.28	0.42
2:E:137:TRP:CA	2:E:145:ALA:HB2	2.38	0.42
1:G:166:MET:CE	1:G:254:PHE:HB2	2.46	0.42
1:G:346:ASP:O	1:G:350:ALA:N	2.46	0.42
1:G:443:ILE:HG22	1:G:444:ARG:N	2.29	0.42
1:G:578:HIS:CD2	1:G:592:ILE:H	2.38	0.42
1:J:11:GLY:O	1:J:14:ALA:HB3	2.20	0.42
1:J:62:VAL:O	1:J:69:THR:HA	2.20	0.42
1:J:93:MET:CE	1:J:716:LEU:HB2	2.49	0.42
1:J:229:LEU:HD12	1:J:229:LEU:HA	1.75	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:500:GLN:HB2	1:J:512:PHE:CZ	2.54	0.42
1:P:175:ILE:C	1:P:176:LEU:HD12	2.38	0.42
1:P:690:LEU:O	1:P:694:GLN:HG3	2.20	0.42
1:P:692:LEU:HD23	1:P:692:LEU:HA	1.85	0.42
4:0:222:ASP:OD1	4:0:224:GLU:HB3	2.19	0.42
4:1:222:ASP:OD1	4:1:224:GLU:HB3	2.19	0.42
4:3:222:ASP:OD1	4:3:224:GLU:HB3	2.19	0.42
4:8:222:ASP:OD1	4:8:224:GLU:HB3	2.20	0.42
4:9:369:ILE:HG23	4:9:370:VAL:N	2.35	0.42
4:X:315:LYS:HD2	4:X:315:LYS:HA	1.92	0.42
1:A:214:MET:CA	1:A:340:ILE:HD11	2.46	0.42
1:A:406:VAL:O	1:A:412:ALA:HA	2.19	0.42
1:A:568:PRO:O	1:A:570:PRO:HD3	2.19	0.42
1:A:725:ARG:CZ	1:A:737:PHE:CE1	3.02	0.42
1:A:741:LYS:HG2	1:A:742:LYS:N	2.35	0.42
2:B:140:PHE:CD2	2:B:144:VAL:HG11	2.54	0.42
1:D:204:GLU:N	1:D:207:LYS:HE3	2.23	0.42
1:D:271:GLU:OE1	1:D:274:ARG:NH1	2.53	0.42
1:D:402:CYS:C	1:D:404:PRO:HD3	2.40	0.42
1:D:409:GLY:N	1:D:636:LYS:CD	2.71	0.42
1:D:530:MET:CE	4:9:354:GLN:CB	2.95	0.42
1:D:537:GLU:OE1	4:9:350:SER:HA	2.19	0.42
1:D:625:THR:H	1:D:625:THR:HG22	1.48	0.42
1:D:690:LEU:O	1:D:694:GLN:HG3	2.20	0.42
1:D:787:ILE:HG21	1:D:787:ILE:HD13	1.67	0.42
1:G:539:GLU:OE2	1:G:553:MLY:HD3	2.20	0.42
1:G:769:ALA:C	1:G:773:GLY:HA3	2.37	0.42
1:J:97:LEU:HD12	1:J:97:LEU:HA	1.67	0.42
2:K:140:PHE:CD2	2:K:144:VAL:HG11	2.54	0.42
1:P:295:MLY:CE	1:P:332:MET:CE	2.97	0.42
1:P:724:TYR:HB3	1:P:727:LEU:CD1	2.49	0.42
1:P:725:ARG:HA	1:P:732:ILE:CG2	2.50	0.42
1:P:734:GLU:N	3:R:93:VAL:HG22	2.34	0.42
2:Q:144:VAL:HG12	2:Q:153:ILE:HD13	1.92	0.42
4:1:206:ARG:O	4:1:209:VAL:HG12	2.20	0.42
4:3:205:GLU:O	4:3:208:ILE:HG22	2.18	0.42
4:4:171:LEU:HA	4:4:172:PRO:HD2	1.84	0.42
4:4:193:LEU:HD11	4:4:250:ILE:HG13	2.02	0.42
4:4:217:CYS:C	4:4:218:TYR:HD1	2.22	0.42
4:7:221:LEU:HA	4:7:312:ARG:HG2	2.02	0.42
4:7:369:ILE:HG23	4:7:370:VAL:N	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:9:222:ASP:OD1	4:9:224:GLU:HB3	2.19	0.42
4:V:222:ASP:OD1	4:V:224:GLU:HB3	2.19	0.42
4:W:221:LEU:HA	4:W:312:ARG:HG2	2.02	0.42
4:Z:206:ARG:O	4:Z:209:VAL:HG12	2.20	0.42
1:A:194:GLN:HE21	1:A:194:GLN:HB3	1.43	0.42
1:A:195:TYR:CE2	1:A:199:ILE:HD13	2.55	0.42
1:A:502:GLU:HG2	1:A:766:PHE:CD1	2.55	0.42
1:A:747:LEU:O	1:A:749:GLY:N	2.52	0.42
1:D:86:ASP:OD2	1:D:87:MLY:HH22	2.19	0.42
1:D:279:LEU:CB	1:D:280:PRO:HD2	2.49	0.42
1:D:294:ASN:OD1	1:D:307:THR:HG21	2.19	0.42
1:D:466:GLY:CA	1:D:484:ASN:HD21	2.32	0.42
1:D:659:MLY:HH22	1:D:659:MLY:HD2	1.42	0.42
1:D:831:TRP:CE3	2:E:34:ILE:CD1	3.00	0.42
3:F:62:ALA:O	3:F:63:ILE:HG13	2.14	0.42
1:G:402:CYS:C	1:G:404:PRO:HD3	2.40	0.42
1:G:633:GLY:HA2	4:V:25:ASP:HA	1.26	0.42
1:G:836:PHE:CE2	2:H:160:GLY:N	2.76	0.42
2:H:144:VAL:HG12	2:H:153:ILE:HD11	1.75	0.42
1:J:87:MLY:HD3	1:J:87:MLY:HH12	1.61	0.42
1:J:510:TRP:CZ2	1:J:772:LEU:HD11	2.55	0.42
1:J:754:ASP:CG	1:J:777:GLU:HA	2.40	0.42
1:J:768:MLY:HB2	1:J:773:GLY:HA3	1.24	0.42
1:P:11:GLY:O	1:P:14:ALA:HB3	2.20	0.42
1:P:797:PHE:HZ	3:R:126:LEU:HD22	1.74	0.42
4:0:221:LEU:HA	4:0:312:ARG:HG2	2.02	0.42
4:0:369:ILE:HG23	4:0:370:VAL:N	2.35	0.42
4:2:171:LEU:HA	4:2:172:PRO:HD2	1.84	0.42
4:3:206:ARG:O	4:3:209:VAL:HG12	2.20	0.42
4:5:196:ARG:HH21	4:5:249:THR:HG23	1.85	0.42
4:5:217:CYS:C	4:5:218:TYR:HD1	2.22	0.42
4:9:221:LEU:HA	4:9:312:ARG:HG2	2.02	0.42
4:W:206:ARG:O	4:W:209:VAL:HG12	2.20	0.42
4:X:369:ILE:HG23	4:X:370:VAL:N	2.35	0.42
4:Y:221:LEU:HA	4:Y:312:ARG:HG2	2.02	0.42
1:A:11:GLY:O	1:A:14:ALA:HB3	2.20	0.42
1:A:110:TYR:O	1:A:113:TRP:N	2.42	0.42
1:A:173:GLN:HG3	1:A:670:HIS:CD2	2.55	0.42
1:A:221:GLN:HG2	1:A:221:GLN:H	1.47	0.42
1:A:322:VAL:HA	1:A:323:PRO:HD3	1.87	0.42
1:A:462:LEU:HD11	1:A:464:ILE:CD1	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:541:MET:HG2	4:8:345:ILE:HG23	2.01	0.42
1:D:151:ALA:HB1	1:D:152:PRO:HD2	2.01	0.42
1:D:215:GLN:H	1:D:340:ILE:CD1	2.21	0.42
1:D:471:ASP:CB	1:D:573:GLY:O	2.68	0.42
1:D:541:MET:CG	4:9:345:ILE:C	2.87	0.42
1:D:744:SER:O	1:D:748:LEU:HD12	2.20	0.42
2:E:113:LYS:O	2:E:147:ASN:HB2	2.20	0.42
1:G:60:VAL:O	1:G:72:VAL:N	2.51	0.42
1:G:462:LEU:HD11	1:G:464:ILE:CD1	2.50	0.42
1:G:757:GLN:HG3	1:G:776:GLU:CB	2.26	0.42
1:J:195:TYR:CE2	1:J:199:ILE:HD13	2.55	0.42
1:J:418:THR:CG2	1:J:419:VAL:N	2.79	0.42
1:J:533:PHE:HD1	1:J:533:PHE:HA	1.79	0.42
1:P:14:ALA:HB3	1:P:15:PRO:CD	2.46	0.42
1:P:320:ILE:O	1:P:320:ILE:HG22	2.17	0.42
1:P:335:ASP:O	1:P:338:ILE:HB	2.20	0.42
1:P:636:LYS:CB	4:0:334:GLU:OE1	2.68	0.42
1:P:642:LYS:HE2	4:0:344:SER:HA	1.57	0.42
1:P:817:GLN:HE21	2:Q:127:ARG:HB2	1.83	0.42
2:Q:113:LYS:O	2:Q:147:ASN:HB2	2.20	0.42
2:Q:140:PHE:CD2	2:Q:144:VAL:HG11	2.54	0.42
4:0:204:ALA:HB1	4:Y:288:ASP:CB	2.48	0.42
4:0:288:ASP:HB3	4:2:63:GLY:N	2.25	0.42
4:1:193:LEU:HD11	4:1:250:ILE:HG13	2.02	0.42
4:2:193:LEU:HD11	4:2:250:ILE:HG13	2.02	0.42
4:2:196:ARG:HH21	4:2:249:THR:HG23	1.85	0.42
4:5:193:LEU:HD11	4:5:250:ILE:HG13	2.02	0.42
4:7:222:ASP:OD1	4:7:224:GLU:HB3	2.19	0.42
4:V:196:ARG:HH21	4:V:249:THR:HG23	1.85	0.42
4:X:205:GLU:O	4:X:208:ILE:HG22	2.18	0.42
4:Y:369:ILE:HG23	4:Y:370:VAL:N	2.35	0.42
1:A:107:MLY:CB	1:A:686:MET:HE2	2.40	0.41
1:A:578:HIS:CD2	1:A:592:ILE:H	2.38	0.41
1:A:813:ILE:CD1	2:B:128:PHE:CE1	2.95	0.41
1:A:837:MLY:HH22	2:H:21:GLU:N	2.23	0.41
1:D:408:VAL:HG22	1:D:636:LYS:HG2	1.51	0.41
1:D:578:HIS:CD2	1:D:592:ILE:H	2.38	0.41
1:G:62:VAL:HG12	1:G:63:MLY:N	2.34	0.41
1:G:166:MET:CE	1:G:254:PHE:CD2	3.01	0.41
1:G:169:ASP:O	1:G:170:ARG:HB2	2.19	0.41
1:G:369:MLY:HH22	1:G:369:MLY:HD3	1.79	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:553:MLY:CB	4:X:46:GLY:HA3	2.49	0.41
1:G:568:PRO:CG	1:G:578:HIS:N	2.83	0.41
1:G:741:LYS:HG2	1:G:742:LYS:N	2.35	0.41
1:G:797:PHE:CE1	3:I:146:ILE:HA	2.51	0.41
1:G:797:PHE:CD2	1:G:798:LEU:HD12	2.55	0.41
1:J:214:MET:CA	1:J:340:ILE:HD11	2.45	0.41
1:J:541:MET:CG	4:W:345:ILE:C	2.87	0.41
1:J:747:LEU:O	1:J:749:GLY:N	2.52	0.41
1:J:829:TRP:O	1:J:832:MET:N	2.50	0.41
1:P:296:MLY:HH11	1:P:348:MLY:CH2	2.48	0.41
1:P:402:CYS:C	1:P:404:PRO:HD3	2.40	0.41
1:P:500:GLN:HB2	1:P:512:PHE:CZ	2.54	0.41
1:P:578:HIS:CD2	1:P:592:ILE:H	2.38	0.41
1:P:732:ILE:HG23	1:P:747:LEU:HD12	0.95	0.41
1:P:792:ALA:H	3:R:42:THR:HG21	1.81	0.41
4:2:322:PRO:HB2	4:4:244:ASP:CG	2.17	0.41
4:2:369:ILE:HG23	4:2:370:VAL:N	2.35	0.41
4:3:193:LEU:HD11	4:3:250:ILE:HG13	2.02	0.41
4:4:196:ARG:HH21	4:4:249:THR:HG23	1.85	0.41
4:5:369:ILE:HG23	4:5:370:VAL:N	2.35	0.41
4:7:193:LEU:HD11	4:7:250:ILE:HG13	2.02	0.41
4:8:193:LEU:HD11	4:8:250:ILE:HG13	2.02	0.41
4:V:206:ARG:O	4:V:209:VAL:HG12	2.20	0.41
4:V:369:ILE:HG23	4:V:370:VAL:N	2.35	0.41
4:W:193:LEU:HD11	4:W:250:ILE:HG13	2.02	0.41
4:W:369:ILE:HG23	4:W:370:VAL:N	2.35	0.41
4:X:291:LYS:CE	4:Z:243:PRO:HB3	2.09	0.41
4:Y:193:LEU:HD11	4:Y:250:ILE:HG13	2.02	0.41
4:Z:369:ILE:HG23	4:Z:370:VAL:N	2.35	0.41
1:A:25:ILE:HG23	1:A:29:ASN:HD22	1.85	0.41
1:A:330:GLU:OE1	1:A:330:GLU:HA	2.20	0.41
1:A:410:ASN:HA	4:8:334:GLU:HB3	1.29	0.41
1:A:568:PRO:CG	1:A:578:HIS:N	2.84	0.41
2:B:113:LYS:O	2:B:147:ASN:HB2	2.20	0.41
1:D:462:LEU:HD11	1:D:464:ILE:CD1	2.50	0.41
1:D:500:GLN:HB2	1:D:512:PHE:CZ	2.54	0.41
1:G:11:GLY:O	1:G:14:ALA:HB3	2.20	0.41
1:G:38:VAL:HG13	1:G:39:PHE:N	2.35	0.41
1:G:135:TYR:HD2	1:G:191:ARG:CG	2.32	0.41
1:G:330:GLU:OE1	1:G:330:GLU:HA	2.20	0.41
1:G:642:LYS:HE2	4:V:344:SER:HA	1.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:744:SER:O	1:G:748:LEU:HD12	2.20	0.41
1:J:14:ALA:HB3	1:J:15:PRO:CD	2.46	0.41
1:J:402:CYS:C	1:J:404:PRO:HD3	2.40	0.41
1:J:612:GLN:NE2	1:J:627:GLY:H	2.14	0.41
1:J:690:LEU:O	1:J:694:GLN:HG3	2.20	0.41
1:J:725:ARG:HA	1:J:732:ILE:CG2	2.50	0.41
1:J:804:ARG:NH2	3:L:149:VAL:HG23	2.35	0.41
1:J:826:VAL:O	1:J:828:HIS:N	2.53	0.41
1:P:60:VAL:O	1:P:72:VAL:N	2.51	0.41
1:P:135:TYR:HD2	1:P:191:ARG:CG	2.33	0.41
1:P:717:TYR:OH	1:P:760:PHE:HB3	2.21	0.41
1:P:734:GLU:CG	3:R:93:VAL:HG23	2.39	0.41
1:P:793:ARG:CD	3:R:87:PHE:CE1	3.03	0.41
1:P:795:ARG:HG2	3:R:116:GLU:OE2	2.19	0.41
1:P:836:PHE:CZ	2:Q:159:HIS:CA	2.94	0.41
4:0:193:LEU:HD11	4:0:250:ILE:HG13	2.02	0.41
4:3:221:LEU:HA	4:3:312:ARG:HG2	2.02	0.41
4:3:287:ILE:CG2	4:5:204:ALA:N	2.67	0.41
4:4:226:GLU:HG3	4:4:255:PHE:CE2	2.55	0.41
4:5:221:LEU:HA	4:5:312:ARG:HG2	2.02	0.41
4:7:287:ILE:N	4:9:202:THR:CG2	2.77	0.41
4:8:315:LYS:HD2	4:8:315:LYS:HA	1.92	0.41
4:8:369:ILE:HG23	4:8:370:VAL:N	2.35	0.41
4:9:196:ARG:HH21	4:9:249:THR:HG23	1.85	0.41
4:V:193:LEU:HD11	4:V:250:ILE:HG13	2.02	0.41
1:A:135:TYR:HD2	1:A:191:ARG:CG	2.33	0.41
1:A:530:MET:CE	4:8:354:GLN:HG3	2.35	0.41
1:A:690:LEU:O	1:A:694:GLN:HG3	2.20	0.41
1:D:129:TYR:HD1	1:D:129:TYR:HA	1.65	0.41
1:D:356:GLY:HA2	1:D:359:MET:HG3	2.02	0.41
1:D:568:PRO:CG	1:D:578:HIS:N	2.83	0.41
1:D:732:ILE:HG21	1:D:747:LEU:CD1	0.64	0.41
1:D:739:ASP:OD1	1:D:739:ASP:C	2.58	0.41
1:D:795:ARG:NE	3:F:116:GLU:HB3	2.31	0.41
1:D:797:PHE:CD2	1:D:798:LEU:HD12	2.55	0.41
1:D:823:PHE:CD1	2:E:160:GLY:HA2	2.46	0.41
1:D:830:PRO:HB2	2:E:51:PHE:CE1	2.54	0.41
1:G:541:MET:HG2	4:V:345:ILE:HG23	2.01	0.41
1:G:541:MET:CE	4:V:346:LEU:HD12	2.48	0.41
1:J:136:ASN:O	1:J:138:MLY:N	2.54	0.41
1:J:568:PRO:CG	1:J:578:HIS:N	2.83	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:636:LYS:CB	4:W:334:GLU:OE1	2.68	0.41
1:J:701:LEU:HD12	1:J:701:LEU:HA	1.55	0.41
1:J:741:LYS:HG2	1:J:742:LYS:N	2.35	0.41
1:J:744:SER:O	1:J:748:LEU:HD12	2.20	0.41
1:J:804:ARG:NH1	3:L:149:VAL:HB	2.35	0.41
1:P:136:ASN:O	1:P:138:MLY:N	2.54	0.41
1:P:176:LEU:N	1:P:176:LEU:CD1	2.74	0.41
1:P:332:MET:H	1:P:332:MET:HG2	1.52	0.41
1:P:471:ASP:CB	1:P:573:GLY:O	2.68	0.41
1:P:568:PRO:CG	1:P:578:HIS:N	2.83	0.41
1:P:741:LYS:HG2	1:P:742:LYS:N	2.35	0.41
1:P:836:PHE:CE1	2:Q:159:HIS:C	2.94	0.41
4:0:206:ARG:O	4:0:209:VAL:HG12	2.20	0.41
4:3:148:THR:HG21	4:5:45:VAL:CG2	2.50	0.41
4:4:206:ARG:O	4:4:209:VAL:HG12	2.20	0.41
4:8:227:MET:O	4:8:230:ALA:HB3	2.21	0.41
4:9:226:GLU:HG3	4:9:255:PHE:CE2	2.55	0.41
4:V:286:ASP:HA	4:X:202:THR:HG22	1.63	0.41
4:X:291:LYS:HG3	4:Z:244:ASP:HA	1.20	0.41
4:Z:193:LEU:HD11	4:Z:250:ILE:HG13	2.02	0.41
4:Z:222:ASP:OD1	4:Z:224:GLU:HB3	2.19	0.41
4:Z:226:GLU:HG3	4:Z:255:PHE:CE2	2.55	0.41
1:A:97:LEU:HD23	1:A:712:PRO:CA	2.50	0.41
1:A:166:MET:CE	1:A:254:PHE:CD2	3.01	0.41
1:A:530:MET:HE3	4:8:354:GLN:CB	2.50	0.41
1:A:797:PHE:CD2	1:A:798:LEU:HD12	2.55	0.41
1:A:812:SER:O	1:A:816:ILE:HG13	2.21	0.41
1:D:11:GLY:O	1:D:14:ALA:HB3	2.20	0.41
1:D:135:TYR:CD2	1:D:191:ARG:HD3	2.55	0.41
1:D:568:PRO:O	1:D:570:PRO:HD3	2.19	0.41
1:G:136:ASN:O	1:G:138:MLY:N	2.54	0.41
1:G:148:ARG:HE	1:G:764:MLY:CH2	2.30	0.41
1:G:195:TYR:CE2	1:G:199:ILE:HD13	2.55	0.41
1:G:449:LEU:N	1:G:449:LEU:CD1	2.82	0.41
1:G:471:ASP:CB	1:G:573:GLY:O	2.68	0.41
1:G:725:ARG:HA	1:G:732:ILE:CG2	2.50	0.41
1:G:791:GLN:CD	3:I:116:GLU:H	2.23	0.41
1:G:826:VAL:O	1:G:828:HIS:N	2.53	0.41
2:H:140:PHE:HA	2:H:141:PRO:HD2	1.57	0.41
3:I:56:GLU:OE1	3:I:59:ASN:ND2	2.54	0.41
1:J:320:ILE:O	1:J:320:ILE:CG2	2.68	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:335:ASP:O	1:J:338:ILE:HB	2.20	0.41
1:J:641:LYS:CE	1:J:647:GLN:CB	2.75	0.41
1:J:756:THR:HG22	1:J:776:GLU:HA	1.70	0.41
1:P:322:VAL:HB	1:P:325:ILE:HD12	2.02	0.41
1:P:530:MET:HE3	4:0:354:GLN:CB	2.50	0.41
1:P:541:MET:HG2	4:0:345:ILE:HG22	2.00	0.41
1:P:795:ARG:NE	3:R:42:THR:CB	2.83	0.41
4:0:243:PRO:CB	4:Y:291:LYS:CE	2.91	0.41
4:2:221:LEU:HA	4:2:312:ARG:HG2	2.02	0.41
4:3:288:ASP:CA	4:5:203:THR:CG2	2.99	0.41
4:3:324:THR:CG2	4:5:244:ASP:O	2.68	0.41
4:3:369:ILE:HG23	4:3:370:VAL:N	2.35	0.41
4:5:222:ASP:OD1	4:5:224:GLU:HB3	2.19	0.41
4:9:193:LEU:HD11	4:9:250:ILE:HG13	2.02	0.41
4:9:287:ILE:HA	4:W:202:THR:HG21	1.59	0.41
4:9:287:ILE:CB	4:W:204:ALA:H	2.13	0.41
4:W:226:GLU:HG3	4:W:255:PHE:CE2	2.55	0.41
4:Y:206:ARG:O	4:Y:209:VAL:HG12	2.20	0.41
1:A:149:GLN:CG	1:A:716:LEU:HD23	2.47	0.41
1:A:711:PHE:O	1:A:714:ARG:NH2	2.54	0.41
1:A:723:ARG:CG	1:A:723:ARG:NH1	2.79	0.41
1:A:795:ARG:CG	3:C:118:MET:HE1	2.47	0.41
1:A:831:TRP:HZ2	2:B:47:LEU:HA	1.83	0.41
2:B:150:TYR:HB3	2:B:151:LYS:HG3	2.03	0.41
1:D:25:ILE:HG23	1:D:29:ASN:HD22	1.85	0.41
1:D:62:VAL:O	1:D:69:THR:HA	2.19	0.41
1:D:173:GLN:HG3	1:D:670:HIS:CD2	2.55	0.41
1:G:84:MLY:HH23	1:G:719:ASP:O	2.14	0.41
1:G:97:LEU:HD12	1:G:97:LEU:HA	1.67	0.41
1:G:217:THR:CA	1:G:221:GLN:HE21	2.33	0.41
1:G:553:MLY:C	4:X:46:GLY:HA3	2.50	0.41
1:G:717:TYR:OH	1:G:760:PHE:HB3	2.21	0.41
1:J:25:ILE:HG23	1:J:29:ASN:HD22	1.85	0.41
1:J:295:MLY:CE	1:J:332:MET:HE1	2.51	0.41
1:J:296:MLY:HH11	1:J:348:MLY:CH2	2.48	0.41
1:J:330:GLU:HG2	1:J:330:GLU:H	1.54	0.41
1:J:471:ASP:CB	1:J:573:GLY:O	2.68	0.41
1:J:839:MLY:N	1:J:840:PRO:HD2	2.34	0.41
2:K:149:ASP:OD2	2:K:150:TYR:CA	2.64	0.41
3:L:25:ILE:O	3:L:63:ILE:CB	2.66	0.41
1:P:174:SER:HA	1:P:460:GLY:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:193:ILE:HD11	1:P:250:ILE:HD12	2.03	0.41
1:P:195:TYR:CE2	1:P:199:ILE:HD13	2.55	0.41
1:P:204:GLU:N	1:P:207:LYS:HE3	2.23	0.41
1:P:356:GLY:HA2	1:P:359:MET:HG3	2.02	0.41
1:P:462:LEU:HD11	1:P:464:ILE:CD1	2.50	0.41
1:P:549:SER:HA	4:2:49:GLN:CG	2.48	0.41
1:P:786:ILE:HG22	1:P:787:ILE:CG2	2.50	0.41
1:P:831:TRP:CH2	2:Q:34:ILE:HG21	2.55	0.41
3:R:63:ILE:CG2	3:R:64:THR:H	2.32	0.41
4:0:226:GLU:HG3	4:0:255:PHE:CE2	2.55	0.41
4:1:148:THR:OG1	4:3:45:VAL:HG23	2.21	0.41
4:4:222:ASP:OD1	4:4:224:GLU:HB3	2.19	0.41
4:7:206:ARG:O	4:7:209:VAL:HG12	2.20	0.41
4:7:226:GLU:HG3	4:7:255:PHE:CE2	2.55	0.41
4:7:287:ILE:HA	4:9:202:THR:HG21	1.59	0.41
4:8:226:GLU:HG3	4:8:255:PHE:CE2	2.55	0.41
4:9:206:ARG:O	4:9:209:VAL:HG12	2.20	0.41
4:X:227:MET:O	4:X:230:ALA:HB3	2.21	0.41
4:Y:226:GLU:HG3	4:Y:255:PHE:CE2	2.55	0.41
1:A:62:VAL:HG12	1:A:63:MLY:N	2.35	0.41
1:A:174:SER:HA	1:A:460:GLY:O	2.20	0.41
1:A:193:ILE:HD11	1:A:250:ILE:HD12	2.03	0.41
1:A:398:LEU:HA	1:A:398:LEU:HD12	1.84	0.41
3:C:63:ILE:CG2	3:C:64:THR:H	2.33	0.41
3:C:96:LYS:H	3:C:96:LYS:HG3	1.67	0.41
1:D:38:VAL:HG13	1:D:39:PHE:N	2.35	0.41
1:D:136:ASN:O	1:D:138:MLY:N	2.54	0.41
1:D:335:ASP:O	1:D:338:ILE:HB	2.20	0.41
1:D:629:GLU:HB3	1:D:643:GLY:C	2.41	0.41
1:D:831:TRP:CH2	2:E:47:LEU:CA	2.65	0.41
1:G:174:SER:HA	1:G:460:GLY:O	2.20	0.41
1:G:485:GLU:OE2	1:G:584:TYR:N	2.50	0.41
1:G:541:MET:HB3	4:V:345:ILE:HG22	2.01	0.41
1:G:673:ARG:HD2	1:G:673:ARG:HA	1.79	0.41
1:G:690:LEU:O	1:G:694:GLN:HG3	2.20	0.41
1:G:772:LEU:HA	1:G:772:LEU:HD12	1.82	0.41
1:J:204:GLU:N	1:J:207:LYS:HE3	2.23	0.41
1:J:797:PHE:CD2	1:J:798:LEU:HD12	2.55	0.41
1:P:744:SER:O	1:P:748:LEU:HD12	2.20	0.41
1:P:812:SER:O	1:P:816:ILE:HG13	2.21	0.41
3:R:56:GLU:OE1	3:R:59:ASN:ND2	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:0:196:ARG:HH21	4:0:249:THR:HG23	1.85	0.41
4:2:144:ALA:HB2	4:2:342:GLY:CA	2.51	0.41
4:3:196:ARG:HH21	4:3:249:THR:HG23	1.85	0.41
4:4:32:PRO:HB2	4:4:34:ILE:CD1	2.51	0.41
4:5:32:PRO:HB2	4:5:34:ILE:CD1	2.51	0.41
4:7:32:PRO:HB2	4:7:34:ILE:CD1	2.51	0.41
4:8:288:ASP:OD1	4:V:204:ALA:HA	2.20	0.41
4:V:226:GLU:HG3	4:V:255:PHE:CE2	2.55	0.41
4:V:315:LYS:HD2	4:V:315:LYS:HA	1.92	0.41
4:X:193:LEU:HD11	4:X:250:ILE:HG13	2.02	0.41
4:Y:196:ARG:HH21	4:Y:249:THR:HG23	1.85	0.41
4:Z:144:ALA:HB2	4:Z:342:GLY:CA	2.51	0.41
4:Z:196:ARG:HH21	4:Z:249:THR:HG23	1.85	0.41
1:A:826:VAL:O	1:A:828:HIS:N	2.53	0.41
3:C:56:GLU:OE1	3:C:59:ASN:ND2	2.54	0.41
1:D:309:PRO:C	1:D:311:ASP:H	2.22	0.41
1:D:507:GLY:C	1:D:762:HIS:N	2.74	0.41
1:D:508:ILE:HD13	1:D:508:ILE:HG21	1.88	0.41
3:F:95:ASP:OD1	3:F:139:TYR:HE1	2.03	0.41
1:G:14:ALA:HB3	1:G:15:PRO:CD	2.46	0.41
1:G:295:MLY:CD	1:G:332:MET:HE2	2.51	0.41
1:G:636:LYS:CB	4:V:334:GLU:OE1	2.68	0.41
1:G:665:ARG:C	1:G:667:THR:N	2.74	0.41
1:G:842:LEU:N	1:G:842:LEU:CD1	2.82	0.41
1:J:464:ILE:HD13	1:J:464:ILE:HG21	1.69	0.41
1:J:796:GLY:N	3:L:35:ARG:NH1	2.68	0.41
3:L:95:ASP:OD1	3:L:139:TYR:HE1	2.04	0.41
1:P:149:GLN:HE21	1:P:149:GLN:HB2	1.71	0.41
1:P:240:ASN:OD1	1:P:241:ASP:N	2.52	0.41
1:P:320:ILE:O	1:P:320:ILE:CG2	2.68	0.41
1:P:330:GLU:HA	1:P:330:GLU:OE1	2.20	0.41
1:P:797:PHE:CD2	1:P:798:LEU:HD12	2.55	0.41
4:1:144:ALA:HB2	4:1:342:GLY:CA	2.51	0.41
4:2:227:MET:O	4:2:230:ALA:HB3	2.21	0.41
4:4:369:ILE:HG23	4:4:370:VAL:N	2.35	0.41
4:5:226:GLU:HG3	4:5:255:PHE:CE2	2.55	0.41
4:W:227:MET:O	4:W:230:ALA:HB3	2.21	0.41
4:X:32:PRO:HB2	4:X:34:ILE:CD1	2.51	0.41
1:A:226:ASN:HB2	1:A:227:PRO:CD	2.47	0.41
1:A:505:MLY:CG	1:A:741:LYS:NZ	2.70	0.41
1:A:724:TYR:HB3	1:A:727:LEU:CD1	2.48	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:793:ARG:NH2	3:C:147:MET:HE3	2.25	0.41
1:A:818:TYR:HB3	2:B:90:GLY:H	1.82	0.41
1:D:330:GLU:HA	1:D:330:GLU:OE1	2.21	0.41
1:D:407:GLY:HA2	1:D:411:GLU:O	2.21	0.41
1:D:813:ILE:HG22	2:E:127:ARG:HD2	2.02	0.41
2:E:150:TYR:HB3	2:E:151:LYS:HG3	2.03	0.41
1:G:91:MET:CE	1:G:119:SER:HB2	2.47	0.41
1:G:384:ASP:HA	1:G:394:SER:OG	2.21	0.41
1:G:537:GLU:OE1	4:V:350:SER:HA	2.20	0.41
1:G:554:LEU:HD12	1:G:554:LEU:HA	1.76	0.41
3:I:25:ILE:O	3:I:63:ILE:CB	2.66	0.41
3:I:95:ASP:OD1	3:I:139:TYR:HE1	2.03	0.41
1:J:193:ILE:HD11	1:J:250:ILE:HD12	2.03	0.41
1:J:193:ILE:CD1	1:J:250:ILE:HD13	2.51	0.41
1:J:356:GLY:HA2	1:J:359:MET:HG3	2.02	0.41
1:J:519:LEU:HD12	1:J:519:LEU:H	1.83	0.41
1:J:530:MET:HE3	4:W:354:GLN:CG	2.32	0.41
1:J:610:LEU:N	1:J:610:LEU:CD1	2.84	0.41
1:J:629:GLU:HB3	1:J:643:GLY:C	2.41	0.41
1:J:717:TYR:OH	1:J:760:PHE:HB3	2.21	0.41
1:J:842:LEU:N	1:J:842:LEU:CD1	2.83	0.41
3:L:11:LYS:HB3	3:L:11:LYS:HE2	1.83	0.41
1:P:135:TYR:CD2	1:P:191:ARG:HD3	2.55	0.41
1:P:193:ILE:CD1	1:P:250:ILE:HD13	2.51	0.41
1:P:539:GLU:OE2	1:P:553:MLY:HD3	2.20	0.41
1:P:657:LEU:HD12	1:P:657:LEU:O	2.21	0.41
4:1:227:MET:O	4:1:230:ALA:HB3	2.21	0.41
4:1:324:THR:H	4:3:244:ASP:HA	1.86	0.41
4:1:369:ILE:HG23	4:1:370:VAL:N	2.35	0.41
4:2:32:PRO:HB2	4:2:34:ILE:CD1	2.51	0.41
4:2:226:GLU:HG3	4:2:255:PHE:CE2	2.55	0.41
4:3:226:GLU:HG3	4:3:255:PHE:CE2	2.56	0.41
4:3:287:ILE:CB	4:5:203:THR:HG22	2.44	0.41
4:4:227:MET:O	4:4:230:ALA:HB3	2.21	0.41
4:7:196:ARG:HH21	4:7:249:THR:HG23	1.85	0.41
4:8:324:THR:HG23	4:V:245:GLY:HA2	1.09	0.41
4:9:32:PRO:HB2	4:9:34:ILE:CD1	2.51	0.41
4:W:144:ALA:HB2	4:W:342:GLY:CA	2.51	0.41
4:X:144:ALA:HB2	4:X:342:GLY:CA	2.51	0.41
1:A:49:MLY:HH23	1:A:80:MET:CE	2.51	0.41
1:A:63:MLY:HH23	1:A:63:MLY:HD3	1.76	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:134:VAL:C	1:A:136:ASN:H	2.16	0.41
1:A:136:ASN:O	1:A:138:MLY:N	2.54	0.41
1:A:303:LEU:O	1:A:304:LEU:HB2	2.21	0.41
1:A:356:GLY:HA2	1:A:359:MET:HG3	2.02	0.41
1:A:471:ASP:CB	1:A:573:GLY:O	2.68	0.41
1:A:498:LEU:CD2	1:A:764:MLY:CH2	2.72	0.41
1:A:797:PHE:CE1	3:C:149:VAL:CG1	3.04	0.41
1:A:813:ILE:HG23	2:B:128:PHE:CE1	2.56	0.41
3:C:48:LYS:HD3	3:C:48:LYS:HA	1.17	0.41
3:C:95:ASP:OD1	3:C:139:TYR:HE1	2.04	0.41
1:D:48:VAL:CG2	1:D:49:MLY:N	2.84	0.41
1:D:195:TYR:CE2	1:D:199:ILE:HD13	2.55	0.41
1:D:217:THR:CA	1:D:221:GLN:HE21	2.33	0.41
1:D:296:MLY:HH11	1:D:348:MLY:CH2	2.48	0.41
1:D:320:ILE:O	1:D:320:ILE:CG2	2.68	0.41
1:D:322:VAL:HB	1:D:325:ILE:HD12	2.03	0.41
1:D:322:VAL:HG12	1:D:325:ILE:HG13	2.03	0.41
1:D:493:HIS:O	1:D:496:PHE:N	2.54	0.41
1:G:172:ASN:OD1	1:G:457:TYR:HA	2.21	0.41
1:G:185:LYS:H	1:G:185:LYS:HG3	1.62	0.41
1:G:193:ILE:CD1	1:G:250:ILE:HD13	2.51	0.41
1:G:335:ASP:O	1:G:338:ILE:HB	2.20	0.41
1:G:356:GLY:HA2	1:G:359:MET:HG3	2.02	0.41
1:G:818:TYR:C	2:H:90:GLY:HA3	2.40	0.41
1:J:38:VAL:HG13	1:J:39:PHE:N	2.35	0.41
1:J:84:MLY:HH21	1:J:720:PHE:O	2.20	0.41
1:J:135:TYR:CD2	1:J:191:ARG:HD3	2.55	0.41
1:J:322:VAL:HG12	1:J:325:ILE:HG13	2.03	0.41
1:J:384:ASP:HA	1:J:394:SER:OG	2.21	0.41
1:J:642:LYS:HE2	4:W:344:SER:HA	1.56	0.41
1:J:657:LEU:HD12	1:J:657:LEU:O	2.21	0.41
1:J:732:ILE:HG21	1:J:747:LEU:CD1	0.63	0.41
3:L:56:GLU:OE1	3:L:59:ASN:ND2	2.54	0.41
1:P:38:VAL:HG13	1:P:39:PHE:N	2.35	0.41
1:P:48:VAL:CG2	1:P:49:MLY:N	2.84	0.41
1:P:106:LEU:HD12	1:P:106:LEU:HA	1.79	0.41
1:P:289:TYR:OH	1:P:315:VAL:O	2.27	0.41
1:P:322:VAL:HG12	1:P:325:ILE:HG13	2.03	0.41
1:P:506:GLU:HG3	1:P:760:PHE:H	1.85	0.41
1:P:536:LEU:HA	1:P:536:LEU:HD12	1.69	0.41
1:P:733:PRO:CB	1:P:737:PHE:CE1	3.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:795:ARG:CD	3:R:116:GLU:OE2	2.66	0.41
1:P:829:TRP:HA	1:P:830:PRO:HD2	1.86	0.41
2:Q:140:PHE:HB3	2:Q:144:VAL:HG11	2.03	0.41
4:0:110:LEU:HB3	4:1:195:GLU:HG3	2.03	0.41
4:0:144:ALA:HB2	4:0:342:GLY:CA	2.51	0.41
4:4:144:ALA:HB2	4:4:342:GLY:CA	2.51	0.41
4:7:227:MET:O	4:7:230:ALA:HB3	2.21	0.41
4:8:144:ALA:HB2	4:8:342:GLY:CA	2.51	0.41
4:8:287:ILE:N	4:V:202:THR:CG2	2.77	0.41
4:9:227:MET:O	4:9:230:ALA:HB3	2.21	0.41
4:V:32:PRO:HB2	4:V:34:ILE:CD1	2.51	0.41
4:V:144:ALA:HB2	4:V:342:GLY:CA	2.51	0.41
4:W:32:PRO:HB2	4:W:34:ILE:CD1	2.51	0.41
4:X:219:VAL:HG22	4:X:258:PRO:CB	2.51	0.41
4:X:221:LEU:HA	4:X:312:ARG:HG2	2.02	0.41
4:X:226:GLU:HG3	4:X:255:PHE:CE2	2.55	0.41
4:Y:144:ALA:HB2	4:Y:342:GLY:CA	2.51	0.41
1:A:72:VAL:O	1:A:73:LYS:O	2.39	0.41
1:A:172:ASN:OD1	1:A:457:TYR:HA	2.21	0.41
1:A:335:ASP:O	1:A:338:ILE:HB	2.20	0.41
1:A:384:ASP:HA	1:A:394:SER:OG	2.21	0.41
1:A:505:MLY:CH1	1:A:762:HIS:O	2.58	0.41
1:A:717:TYR:OH	1:A:760:PHE:HB3	2.21	0.41
2:B:63:GLU:O	2:B:67:MET:HG3	2.21	0.41
3:C:62:ALA:O	3:C:63:ILE:HG13	2.13	0.41
1:D:193:ILE:HD11	1:D:250:ILE:HD12	2.03	0.41
1:D:193:ILE:CD1	1:D:250:ILE:HD13	2.51	0.41
1:D:348:MLY:HH12	1:D:348:MLY:HD2	1.82	0.41
1:D:554:LEU:HA	1:D:554:LEU:HD12	1.77	0.41
1:G:25:ILE:HG23	1:G:29:ASN:HD22	1.85	0.41
1:G:193:ILE:HD11	1:G:250:ILE:HD12	2.03	0.41
1:G:553:MLY:HA	4:X:45:VAL:O	2.21	0.41
1:G:762:HIS:CD2	1:G:762:HIS:N	2.78	0.41
1:G:829:TRP:HZ3	2:H:84:PHE:CD1	2.33	0.41
1:J:330:GLU:OE1	1:J:330:GLU:HA	2.20	0.41
1:J:480:ILE:CG2	1:J:481:ASN:N	2.74	0.41
1:J:539:GLU:OE2	1:J:553:MLY:HD3	2.20	0.41
1:J:791:GLN:HB3	3:L:116:GLU:OE2	2.21	0.41
2:K:113:LYS:O	2:K:147:ASN:HB2	2.20	0.41
1:P:218:LEU:HD22	1:P:222:ILE:HG13	1.95	0.41
1:P:229:LEU:HA	1:P:229:LEU:HD12	1.75	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:493:HIS:O	1:P:496:PHE:N	2.54	0.41
3:R:95:ASP:OD1	3:R:139:TYR:HE1	2.03	0.41
4:0:32:PRO:HB2	4:0:34:ILE:CD1	2.51	0.41
4:0:227:MET:O	4:0:230:ALA:HB3	2.21	0.41
4:1:226:GLU:HG3	4:1:255:PHE:CE2	2.55	0.41
4:3:32:PRO:HB2	4:3:34:ILE:CD1	2.51	0.41
4:3:144:ALA:HB2	4:3:342:GLY:CA	2.51	0.41
4:3:219:VAL:HG22	4:3:258:PRO:CB	2.51	0.41
4:5:227:MET:O	4:5:230:ALA:HB3	2.21	0.41
4:8:32:PRO:HB2	4:8:34:ILE:CD1	2.51	0.41
4:V:221:LEU:HA	4:V:312:ARG:HG2	2.02	0.41
4:V:227:MET:O	4:V:230:ALA:HB3	2.21	0.41
4:X:196:ARG:HH21	4:X:249:THR:HG23	1.85	0.41
1:A:217:THR:CA	1:A:221:GLN:HE21	2.33	0.40
1:A:806:MET:SD	3:C:17:PHE:HE2	2.44	0.40
1:D:47:PHE:HE1	1:D:78:PHE:CE1	2.40	0.40
1:D:176:LEU:N	1:D:176:LEU:CD1	2.75	0.40
1:D:213:LYS:HA	1:D:220:ASP:OD2	2.19	0.40
2:E:140:PHE:HB3	2:E:144:VAL:HG11	2.03	0.40
3:F:56:GLU:OE1	3:F:59:ASN:ND2	2.54	0.40
1:G:56:GLU:HB2	1:G:59:MLY:CB	2.30	0.40
1:G:194:GLN:HE21	1:G:194:GLN:HB3	1.43	0.40
1:G:322:VAL:HA	1:G:323:PRO:HD3	1.87	0.40
1:G:657:LEU:HD12	1:G:657:LEU:O	2.21	0.40
2:H:141:PRO:CB	2:H:142:PRO:HD3	2.48	0.40
1:J:172:ASN:OD1	1:J:457:TYR:HA	2.21	0.40
1:J:493:HIS:O	1:J:496:PHE:N	2.54	0.40
1:J:797:PHE:HE2	3:L:126:LEU:CD2	2.27	0.40
2:K:149:ASP:CG	2:K:150:TYR:N	2.49	0.40
1:P:88:ILE:HG22	1:P:90:ASP:C	2.42	0.40
1:P:237:THR:CG2	1:P:238:VAL:N	2.84	0.40
1:P:544:LYS:N	4:0:146:GLY:O	2.55	0.40
1:P:772:LEU:HA	1:P:772:LEU:HD12	1.83	0.40
4:1:219:VAL:HG22	4:1:258:PRO:CB	2.51	0.40
4:1:315:LYS:HD2	4:1:315:LYS:HA	1.92	0.40
4:4:219:VAL:HG22	4:4:258:PRO:CB	2.51	0.40
4:8:219:VAL:HG22	4:8:258:PRO:CB	2.52	0.40
4:9:144:ALA:HB2	4:9:342:GLY:CA	2.51	0.40
4:9:288:ASP:OD1	4:W:204:ALA:HA	2.21	0.40
4:V:219:VAL:HG22	4:V:258:PRO:CB	2.52	0.40
4:Y:32:PRO:HB2	4:Y:34:ILE:CD1	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Y:227:MET:O	4:Y:230:ALA:HB3	2.21	0.40
1:A:14:ALA:HB3	1:A:15:PRO:CD	2.46	0.40
1:A:193:ILE:CD1	1:A:250:ILE:HD13	2.51	0.40
1:A:464:ILE:HG22	1:A:465:ALA:H	1.87	0.40
1:A:493:HIS:O	1:A:496:PHE:N	2.54	0.40
1:A:797:PHE:CD1	3:C:149:VAL:HG12	2.56	0.40
1:D:201:ALA:O	1:D:202:SER:OG	2.36	0.40
1:D:528:MLY:HB2	1:D:529:PRO:HD2	2.03	0.40
1:D:556:ASP:OD1	4:W:50:LYS:CG	2.69	0.40
1:D:641:LYS:CE	1:D:647:GLN:CB	2.75	0.40
1:D:776:GLU:O	1:D:780:ASP:N	2.45	0.40
1:G:28:GLN:CB	1:G:723:ARG:NH1	2.33	0.40
1:G:279:LEU:CB	1:G:280:PRO:HD2	2.49	0.40
1:G:641:LYS:CE	1:G:647:GLN:CB	2.74	0.40
1:G:648:THR:CG2	1:G:651:ALA:CB	2.92	0.40
1:G:817:GLN:NE2	2:H:128:PHE:CD1	2.76	0.40
1:J:88:ILE:HG22	1:J:90:ASP:C	2.42	0.40
1:J:322:VAL:HB	1:J:325:ILE:HD12	2.03	0.40
1:J:536:LEU:HA	1:J:536:LEU:HD12	1.69	0.40
1:J:544:LYS:N	4:W:146:GLY:O	2.55	0.40
1:J:553:MLY:HH12	4:Y:45:VAL:HG11	2.00	0.40
1:J:735:GLY:HA3	1:J:743:ALA:HA	2.01	0.40
1:P:185:LYS:H	1:P:185:LYS:HG3	1.63	0.40
1:P:544:LYS:HE2	4:2:45:VAL:HG22	2.03	0.40
1:P:580:SER:O	1:P:581:LEU:HD12	2.22	0.40
1:P:629:GLU:HB3	1:P:643:GLY:C	2.41	0.40
1:P:799:MET:SD	3:R:35:ARG:HD2	2.61	0.40
4:7:144:ALA:HB2	4:7:342:GLY:CA	2.51	0.40
4:8:221:LEU:HA	4:8:312:ARG:HG2	2.02	0.40
4:9:120:THR:HG21	4:9:370:VAL:CG1	2.52	0.40
4:Z:227:MET:O	4:Z:230:ALA:HB3	2.21	0.40
1:A:149:GLN:CB	1:A:718:ALA:CA	2.99	0.40
1:A:292:MET:CE	1:A:309:PRO:HD3	2.52	0.40
3:C:11:LYS:HE2	3:C:11:LYS:HB3	1.83	0.40
1:D:135:TYR:HD2	1:D:191:ARG:CG	2.33	0.40
1:D:172:ASN:OD1	1:D:457:TYR:HA	2.21	0.40
1:D:536:LEU:HA	1:D:536:LEU:HD12	1.69	0.40
1:D:733:PRO:CB	1:D:737:PHE:CE1	3.02	0.40
1:D:797:PHE:CD1	3:F:146:ILE:O	2.74	0.40
1:D:813:ILE:CG1	2:E:128:PHE:CE1	3.05	0.40
1:G:221:GLN:HG2	1:G:221:GLN:H	1.47	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:464:ILE:HG22	1:G:465:ALA:H	1.87	0.40
1:G:493:HIS:O	1:G:496:PHE:N	2.54	0.40
1:G:528:MLY:HB2	1:G:529:PRO:HD2	2.03	0.40
1:G:812:SER:O	1:G:816:ILE:HG13	2.21	0.40
1:J:47:PHE:HE1	1:J:78:PHE:CE1	2.40	0.40
1:J:60:VAL:O	1:J:72:VAL:N	2.51	0.40
1:J:710:GLY:C	1:J:772:LEU:HD23	2.39	0.40
1:J:797:PHE:CE1	3:L:146:ILE:CG1	3.04	0.40
1:P:25:ILE:HG23	1:P:29:ASN:HD22	1.85	0.40
1:P:303:LEU:O	1:P:304:LEU:HB2	2.21	0.40
4:2:237:GLU:HA	4:2:251:GLY:CA	2.43	0.40
4:3:227:MET:O	4:3:230:ALA:HB3	2.21	0.40
4:9:287:ILE:N	4:W:202:THR:CG2	2.77	0.40
1:A:725:ARG:HA	1:A:732:ILE:CG2	2.50	0.40
1:A:823:PHE:CD1	2:B:160:GLY:HA3	2.55	0.40
1:D:60:VAL:O	1:D:72:VAL:N	2.51	0.40
1:D:64:THR:OG1	1:D:68:GLU:HB3	2.22	0.40
1:D:242:ASN:OD1	1:D:286:HIS:NE2	2.49	0.40
1:D:303:LEU:O	1:D:304:LEU:HB2	2.21	0.40
1:D:308:ASN:HA	1:D:309:PRO:HD2	1.88	0.40
1:D:398:LEU:HA	1:D:398:LEU:HD12	1.83	0.40
1:D:793:ARG:NH2	3:F:147:MET:HE3	2.36	0.40
2:E:149:ASP:O	2:E:150:TYR:CD1	2.75	0.40
1:G:110:TYR:O	1:G:113:TRP:N	2.42	0.40
1:G:305:ILE:HG22	1:G:312:TYR:OH	2.22	0.40
1:G:407:GLY:HA2	1:G:411:GLU:O	2.21	0.40
1:G:408:VAL:HA	1:G:636:LYS:HG2	1.14	0.40
1:G:642:LYS:HB2	4:V:24:ASP:O	1.89	0.40
2:H:113:LYS:O	2:H:147:ASN:HB2	2.20	0.40
1:J:303:LEU:O	1:J:304:LEU:HB2	2.21	0.40
1:J:795:ARG:NE	3:L:43:ASN:H	2.17	0.40
1:P:435:GLU:O	1:P:438:PHE:N	2.55	0.40
1:P:508:ILE:HD13	1:P:508:ILE:HG21	1.88	0.40
2:Q:111:SER:OG	2:Q:148:VAL:CA	2.69	0.40
4:W:196:ARG:HH21	4:W:249:THR:HG23	1.85	0.40
4:X:120:THR:HG21	4:X:370:VAL:CG1	2.52	0.40
1:A:237:THR:CG2	1:A:238:VAL:N	2.84	0.40
1:D:88:ILE:HG22	1:D:90:ASP:C	2.42	0.40
1:D:89:GLU:HB3	1:D:153:PRO:HG3	2.03	0.40
1:D:237:THR:CG2	1:D:238:VAL:N	2.85	0.40
1:D:400:ALA:CB	1:D:606:THR:CG2	3.00	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:657:LEU:O	1:D:657:LEU:HD12	2.21	0.40
1:D:665:ARG:C	1:D:667:THR:N	2.74	0.40
1:D:724:TYR:HA	1:D:782:MLY:CE	2.51	0.40
1:G:792:ALA:CB	3:I:42:THR:CB	2.47	0.40
2:H:111:SER:OG	2:H:148:VAL:CA	2.69	0.40
1:J:528:MLY:HB2	1:J:529:PRO:HD2	2.03	0.40
1:J:568:PRO:HG3	1:J:578:HIS:N	2.36	0.40
1:J:812:SER:O	1:J:816:ILE:HG13	2.21	0.40
1:P:84:MLY:CE	1:P:723:ARG:CD	2.98	0.40
1:P:107:MLY:N	1:P:686:MET:HE1	2.36	0.40
1:P:295:MLY:CE	1:P:332:MET:HE1	2.51	0.40
1:P:401:LEU:HD12	1:P:401:LEU:HA	1.98	0.40
1:P:407:GLY:HA2	1:P:411:GLU:O	2.21	0.40
1:P:485:GLU:OE1	1:P:583:HIS:HB3	2.21	0.40
1:P:739:ASP:OD1	1:P:739:ASP:C	2.58	0.40
2:Q:117:LEU:HD23	2:Q:117:LEU:HA	1.94	0.40
2:Q:150:TYR:HB3	2:Q:151:LYS:HG3	2.03	0.40
4:0:205:GLU:HG2	4:Y:287:ILE:CD1	2.47	0.40
4:0:315:LYS:HD2	4:0:315:LYS:HA	1.92	0.40
4:1:120:THR:HG21	4:1:370:VAL:CG1	2.52	0.40
4:3:120:THR:HG21	4:3:370:VAL:CG1	2.52	0.40
4:3:250:ILE:HG22	4:3:254:ARG:HB2	2.04	0.40
4:4:250:ILE:HG22	4:4:254:ARG:HB2	2.04	0.40
4:4:287:ILE:H	4:4:287:ILE:CD1	2.31	0.40
4:5:120:THR:HG21	4:5:370:VAL:CG1	2.52	0.40
4:9:250:ILE:HG22	4:9:254:ARG:HB2	2.04	0.40
4:9:287:ILE:HD11	4:W:202:THR:HA	1.66	0.40
4:V:120:THR:HG21	4:V:370:VAL:CG1	2.52	0.40
4:Y:315:LYS:HD2	4:Y:315:LYS:HA	1.92	0.40
4:Z:88:HIS:HA	4:Z:92:ASN:OD1	2.22	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	789/840 (94%)	650 (82%)	113 (14%)	26 (3%)	4	26
1	D	789/840 (94%)	651 (82%)	112 (14%)	26 (3%)	4	26
1	G	791/840 (94%)	651 (82%)	113 (14%)	27 (3%)	3	26
1	J	791/840 (94%)	651 (82%)	113 (14%)	27 (3%)	3	26
1	P	791/840 (94%)	650 (82%)	112 (14%)	29 (4%)	3	24
2	B	143/145 (99%)	126 (88%)	9 (6%)	8 (6%)	2	19
2	E	143/145 (99%)	126 (88%)	9 (6%)	8 (6%)	2	19
2	H	143/145 (99%)	126 (88%)	9 (6%)	8 (6%)	2	19
2	K	143/145 (99%)	126 (88%)	9 (6%)	8 (6%)	2	19
2	Q	143/145 (99%)	126 (88%)	9 (6%)	8 (6%)	2	19
3	C	143/147 (97%)	133 (93%)	10 (7%)	0	100	100
3	F	143/147 (97%)	133 (93%)	10 (7%)	0	100	100
3	I	143/147 (97%)	133 (93%)	10 (7%)	0	100	100
3	L	143/147 (97%)	133 (93%)	10 (7%)	0	100	100
3	R	143/147 (97%)	133 (93%)	10 (7%)	0	100	100
4	0	370/375 (99%)	334 (90%)	30 (8%)	6 (2%)	9	44
4	1	370/375 (99%)	334 (90%)	30 (8%)	6 (2%)	9	44
4	2	370/375 (99%)	335 (90%)	29 (8%)	6 (2%)	9	44
4	3	370/375 (99%)	335 (90%)	29 (8%)	6 (2%)	9	44
4	4	370/375 (99%)	334 (90%)	30 (8%)	6 (2%)	9	44
4	5	370/375 (99%)	335 (90%)	29 (8%)	6 (2%)	9	44
4	7	370/375 (99%)	334 (90%)	30 (8%)	6 (2%)	9	44
4	8	370/375 (99%)	334 (90%)	30 (8%)	6 (2%)	9	44
4	9	370/375 (99%)	334 (90%)	30 (8%)	6 (2%)	9	44
4	V	370/375 (99%)	335 (90%)	29 (8%)	6 (2%)	9	44
4	W	370/375 (99%)	334 (90%)	30 (8%)	6 (2%)	9	44
4	X	370/375 (99%)	335 (90%)	29 (8%)	6 (2%)	9	44
4	Y	370/375 (99%)	335 (90%)	29 (8%)	6 (2%)	9	44
4	Z	370/375 (99%)	335 (90%)	29 (8%)	6 (2%)	9	44
All	All	10561/10910 (97%)	9231 (87%)	1071 (10%)	259 (2%)	9	32

All (259) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	73	LYS
1	A	202	SER
1	A	572	LYS
1	A	712	PRO
1	A	729	ALA
1	A	757	GLN
1	A	762	HIS
2	B	131	GLU
2	B	141	PRO
1	D	73	LYS
1	D	202	SER
1	D	572	LYS
1	D	712	PRO
1	D	729	ALA
1	D	757	GLN
1	D	762	HIS
2	E	131	GLU
2	E	141	PRO
1	G	73	LYS
1	G	202	SER
1	G	572	LYS
1	G	712	PRO
1	G	729	ALA
1	G	757	GLN
1	G	762	HIS
2	H	131	GLU
2	H	141	PRO
1	J	73	LYS
1	J	202	SER
1	J	572	LYS
1	J	712	PRO
1	J	729	ALA
1	J	757	GLN
1	J	762	HIS
1	J	785	GLU
2	K	131	GLU
2	K	141	PRO
1	P	73	LYS
1	P	202	SER
1	P	572	LYS
1	P	712	PRO
1	P	729	ALA

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Mol	Chain	Res	Type
1	P	757	GLN
1	P	762	HIS
1	P	770	GLY
1	P	806	MET
2	Q	131	GLU
2	Q	141	PRO
4	0	246	GLN
4	1	246	GLN
4	2	246	GLN
4	3	246	GLN
4	4	246	GLN
4	5	246	GLN
4	7	246	GLN
4	8	246	GLN
4	9	246	GLN
4	V	246	GLN
4	W	246	GLN
4	X	246	GLN
4	Y	246	GLN
4	Z	246	GLN
1	A	11	GLY
1	A	21	GLU
1	A	219	GLU
1	A	517	MET
1	A	637	LYS
2	B	130	PRO
2	B	147	ASN
2	B	151	LYS
2	B	161	GLU
1	D	11	GLY
1	D	21	GLU
1	D	219	GLU
1	D	517	MET
1	D	637	LYS
2	E	130	PRO
2	E	147	ASN
2	E	151	LYS
2	E	161	GLU
1	G	11	GLY
1	G	21	GLU
1	G	219	GLU
1	G	517	MET

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Mol	Chain	Res	Type
1	G	532	ILE
1	G	637	LYS
1	G	785	GLU
2	H	130	PRO
2	H	147	ASN
2	H	151	LYS
1	J	11	GLY
1	J	21	GLU
1	J	219	GLU
1	J	517	MET
1	J	637	LYS
2	K	130	PRO
2	K	147	ASN
2	K	151	LYS
1	P	11	GLY
1	P	21	GLU
1	P	219	GLU
1	P	517	MET
1	P	637	LYS
1	P	807	VAL
2	Q	130	PRO
2	Q	147	ASN
2	Q	151	LYS
2	Q	161	GLU
4	0	274	ILE
4	1	274	ILE
4	2	274	ILE
4	3	274	ILE
4	4	274	ILE
4	5	274	ILE
4	7	274	ILE
4	8	274	ILE
4	9	274	ILE
4	V	274	ILE
4	W	274	ILE
4	X	274	ILE
4	Y	274	ILE
4	Z	274	ILE
1	A	58	GLY
1	A	294	ASN
1	A	532	ILE
1	A	644	SER

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Mol	Chain	Res	Type
1	D	58	GLY
1	D	294	ASN
1	D	532	ILE
1	D	644	SER
1	G	58	GLY
1	G	294	ASN
1	G	644	SER
2	H	161	GLU
1	J	58	GLY
1	J	294	ASN
1	J	532	ILE
1	J	644	SER
2	K	161	GLU
1	P	58	GLY
1	P	294	ASN
1	P	532	ILE
1	P	644	SER
4	0	233	SER
4	1	233	SER
4	2	233	SER
4	3	233	SER
4	4	233	SER
4	5	233	SER
4	7	233	SER
4	8	233	SER
4	9	233	SER
4	V	233	SER
4	W	233	SER
4	X	233	SER
4	Y	233	SER
4	Z	233	SER
1	A	435	GLU
1	A	817	GLN
1	D	269	LEU
1	D	435	GLU
1	D	817	GLN
1	G	269	LEU
1	G	435	GLU
1	G	817	GLN
1	J	269	LEU
1	J	435	GLU
1	J	817	GLN

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Mol	Chain	Res	Type
1	P	435	GLU
1	P	817	GLN
4	0	2	GLU
4	0	253	GLU
4	1	2	GLU
4	1	253	GLU
4	2	2	GLU
4	3	2	GLU
4	3	253	GLU
4	4	2	GLU
4	5	2	GLU
4	7	2	GLU
4	8	2	GLU
4	8	253	GLU
4	9	2	GLU
4	9	253	GLU
4	V	2	GLU
4	W	2	GLU
4	X	2	GLU
4	Y	2	GLU
4	Z	2	GLU
4	Z	253	GLU
1	A	8	ALA
1	A	269	LEU
1	A	578	HIS
2	B	140	PHE
1	D	8	ALA
1	D	556	ASP
1	D	578	HIS
2	E	140	PHE
1	G	8	ALA
1	G	79	SER
1	G	578	HIS
2	H	140	PHE
1	J	8	ALA
1	J	578	HIS
1	P	8	ALA
1	P	269	LEU
1	P	578	HIS
2	Q	140	PHE
4	2	253	GLU
4	4	253	GLU

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Mol	Chain	Res	Type
4	5	253	GLU
4	7	253	GLU
4	V	253	GLU
4	W	253	GLU
4	X	253	GLU
4	Y	253	GLU
1	A	79	SER
1	A	199	ILE
1	A	556	ASP
2	B	142	PRO
1	D	79	SER
1	D	199	ILE
2	E	142	PRO
1	G	199	ILE
1	G	556	ASP
2	H	142	PRO
1	J	79	SER
1	J	199	ILE
1	J	556	ASP
2	K	140	PHE
2	K	142	PRO
1	P	79	SER
1	P	199	ILE
1	P	556	ASP
2	Q	142	PRO
1	A	840	PRO
1	D	287	ILE
1	D	840	PRO
1	G	287	ILE
1	G	840	PRO
1	J	287	ILE
1	J	840	PRO
1	P	287	ILE
1	P	840	PRO
4	0	242	LEU
4	1	242	LEU
4	2	242	LEU
4	3	242	LEU
4	4	242	LEU
4	5	242	LEU
4	7	242	LEU
4	8	242	LEU

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Mol	Chain	Res	Type
4	9	242	LEU
4	V	242	LEU
4	W	242	LEU
4	X	242	LEU
4	Y	242	LEU
4	Z	242	LEU
1	A	287	ILE

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	672/672 (100%)	512 (76%)	160 (24%)	0 4
1	D	672/672 (100%)	514 (76%)	158 (24%)	1 4
1	G	672/672 (100%)	513 (76%)	159 (24%)	1 4
1	J	672/672 (100%)	514 (76%)	158 (24%)	1 4
1	P	672/672 (100%)	514 (76%)	158 (24%)	1 4
2	B	120/120 (100%)	119 (99%)	1 (1%)	81 89
2	E	120/120 (100%)	120 (100%)	0	100 100
2	H	120/120 (100%)	119 (99%)	1 (1%)	81 89
2	K	120/120 (100%)	119 (99%)	1 (1%)	81 89
2	Q	120/120 (100%)	119 (99%)	1 (1%)	81 89
3	C	117/117 (100%)	112 (96%)	5 (4%)	29 53
3	F	117/117 (100%)	112 (96%)	5 (4%)	29 53
3	I	117/117 (100%)	112 (96%)	5 (4%)	29 53
3	L	117/117 (100%)	112 (96%)	5 (4%)	29 53
3	R	117/117 (100%)	112 (96%)	5 (4%)	29 53
4	0	315/318 (99%)	268 (85%)	47 (15%)	3 15
4	1	315/318 (99%)	269 (85%)	46 (15%)	3 15
4	2	315/318 (99%)	269 (85%)	46 (15%)	3 15

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
4	3	315/318 (99%)	269 (85%)	46 (15%)	3	15
4	4	315/318 (99%)	269 (85%)	46 (15%)	3	15
4	5	315/318 (99%)	269 (85%)	46 (15%)	3	15
4	7	315/318 (99%)	269 (85%)	46 (15%)	3	15
4	8	315/318 (99%)	269 (85%)	46 (15%)	3	15
4	9	315/318 (99%)	268 (85%)	47 (15%)	3	15
4	V	315/318 (99%)	268 (85%)	47 (15%)	3	15
4	W	315/318 (99%)	268 (85%)	47 (15%)	3	15
4	X	315/318 (99%)	268 (85%)	47 (15%)	3	15
4	Y	315/318 (99%)	269 (85%)	46 (15%)	3	15
4	Z	315/318 (99%)	269 (85%)	46 (15%)	3	15
All	All	8955/8997 (100%)	7484 (84%)	1471 (16%)	5	12

All (1471) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	4	ASP
1	A	7	MET
1	A	12	GLU
1	A	15	PRO
1	A	17	LEU
1	A	20	SER
1	A	22	LYS
1	A	36	SER
1	A	37	SER
1	A	46	SER
1	A	61	THR
1	A	69	THR
1	A	70	LEU
1	A	72	VAL
1	A	73	LYS
1	A	75	ASP
1	A	76	GLN
1	A	97	LEU
1	A	106	LEU
1	A	109	ARG
1	A	114	MET
1	A	117	THR

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Mol	Chain	Res	Type
1	A	121	LEU
1	A	126	VAL
1	A	127	ASN
1	A	135	TYR
1	A	136	ASN
1	A	146	LYS
1	A	149	GLN
1	A	155	ILE
1	A	157	SER
1	A	158	ILE
1	A	159	SER
1	A	165	PHE
1	A	167	LEU
1	A	169	ASP
1	A	173	GLN
1	A	178	THR
1	A	185	LYS
1	A	186	THR
1	A	187	VAL
1	A	189	THR
1	A	191	ARG
1	A	193	ILE
1	A	194	GLN
1	A	198	THR
1	A	199	ILE
1	A	218	LEU
1	A	219	GLU
1	A	221	GLN
1	A	223	ILE
1	A	227	PRO
1	A	229	LEU
1	A	244	SER
1	A	245	ARG
1	A	251	ARG
1	A	264	ASP
1	A	273	SER
1	A	274	ARG
1	A	278	GLN
1	A	282	GLU
1	A	287	ILE
1	A	290	GLN
1	A	294	ASN

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Mol	Chain	Res	Type
1	A	298	GLU
1	A	300	ILE
1	A	325	ILE
1	A	331	LEU
1	A	336	SER
1	A	351	ILE
1	A	354	LEU
1	A	364	LEU
1	A	365	LYS
1	A	372	GLU
1	A	376	GLU
1	A	381	GLU
1	A	389	LEU
1	A	392	LEU
1	A	394	SER
1	A	399	LYS
1	A	405	ARG
1	A	410	ASN
1	A	439	LEU
1	A	447	GLN
1	A	448	GLN
1	A	449	LEU
1	A	452	LYS
1	A	453	GLN
1	A	455	ARG
1	A	457	TYR
1	A	462	LEU
1	A	471	ASP
1	A	474	SER
1	A	480	ILE
1	A	487	LEU
1	A	495	MET
1	A	499	GLU
1	A	506	GLU
1	A	513	ILE
1	A	518	ASP
1	A	524	GLU
1	A	532	ILE
1	A	534	SER
1	A	537	GLU
1	A	543	PRO
1	A	549	SER

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Mol	Chain	Res	Type
1	A	561	LYS
1	A	562	SER
1	A	563	ASN
1	A	569	LYS
1	A	580	SER
1	A	593	SER
1	A	597	GLU
1	A	604	ASN
1	A	608	ILE
1	A	610	LEU
1	A	615	SER
1	A	621	LEU
1	A	625	THR
1	A	664	LEU
1	A	666	SER
1	A	673	ARG
1	A	675	ILE
1	A	676	ILE
1	A	686	MET
1	A	689	GLU
1	A	690	LEU
1	A	693	HIS
1	A	698	ASN
1	A	701	LEU
1	A	702	GLU
1	A	704	ILE
1	A	708	ARG
1	A	713	SER
1	A	714	ARG
1	A	716	LEU
1	A	719	ASP
1	A	722	GLN
1	A	723	ARG
1	A	728	ASN
1	A	745	GLU
1	A	752	ASP
1	A	753	VAL
1	A	754	ASP
1	A	762	HIS
1	A	774	LEU
1	A	785	GLU
1	A	787	ILE

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Mol	Chain	Res	Type
1	A	793	ARG
1	A	799	MET
1	A	802	GLU
1	A	804	ARG
1	A	810	ARG
1	A	816	ILE
1	A	822	SER
1	A	832	MET
1	A	834	LEU
1	A	838	ILE
1	A	842	LEU
1	A	843	LYS
2	B	142	PRO
3	C	48	LYS
3	C	68	PHE
3	C	83	THR
3	C	95	ASP
3	C	96	LYS
1	D	4	ASP
1	D	7	MET
1	D	12	GLU
1	D	15	PRO
1	D	17	LEU
1	D	20	SER
1	D	22	LYS
1	D	36	SER
1	D	37	SER
1	D	46	SER
1	D	61	THR
1	D	69	THR
1	D	70	LEU
1	D	72	VAL
1	D	73	LYS
1	D	75	ASP
1	D	76	GLN
1	D	97	LEU
1	D	106	LEU
1	D	109	ARG
1	D	114	MET
1	D	117	THR
1	D	121	LEU
1	D	126	VAL

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Mol	Chain	Res	Type
1	D	127	ASN
1	D	135	TYR
1	D	136	ASN
1	D	146	LYS
1	D	149	GLN
1	D	155	ILE
1	D	157	SER
1	D	158	ILE
1	D	159	SER
1	D	165	PHE
1	D	167	LEU
1	D	169	ASP
1	D	173	GLN
1	D	178	THR
1	D	185	LYS
1	D	186	THR
1	D	187	VAL
1	D	189	THR
1	D	191	ARG
1	D	193	ILE
1	D	194	GLN
1	D	198	THR
1	D	199	ILE
1	D	218	LEU
1	D	219	GLU
1	D	221	GLN
1	D	223	ILE
1	D	229	LEU
1	D	244	SER
1	D	245	ARG
1	D	251	ARG
1	D	264	ASP
1	D	273	SER
1	D	274	ARG
1	D	278	GLN
1	D	282	GLU
1	D	287	ILE
1	D	290	GLN
1	D	294	ASN
1	D	298	GLU
1	D	300	ILE
1	D	325	ILE

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Mol	Chain	Res	Type
1	D	331	LEU
1	D	336	SER
1	D	351	ILE
1	D	354	LEU
1	D	364	LEU
1	D	365	LYS
1	D	372	GLU
1	D	376	GLU
1	D	381	GLU
1	D	389	LEU
1	D	392	LEU
1	D	394	SER
1	D	399	LYS
1	D	405	ARG
1	D	410	ASN
1	D	439	LEU
1	D	447	GLN
1	D	448	GLN
1	D	449	LEU
1	D	453	GLN
1	D	455	ARG
1	D	457	TYR
1	D	462	LEU
1	D	471	ASP
1	D	474	SER
1	D	480	ILE
1	D	487	LEU
1	D	495	MET
1	D	499	GLU
1	D	506	GLU
1	D	513	ILE
1	D	518	ASP
1	D	524	GLU
1	D	532	ILE
1	D	534	SER
1	D	537	GLU
1	D	549	SER
1	D	561	LYS
1	D	562	SER
1	D	563	ASN
1	D	569	LYS
1	D	580	SER

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Mol	Chain	Res	Type
1	D	593	SER
1	D	597	GLU
1	D	604	ASN
1	D	608	ILE
1	D	610	LEU
1	D	615	SER
1	D	621	LEU
1	D	625	THR
1	D	664	LEU
1	D	666	SER
1	D	673	ARG
1	D	675	ILE
1	D	676	ILE
1	D	686	MET
1	D	689	GLU
1	D	690	LEU
1	D	693	HIS
1	D	698	ASN
1	D	701	LEU
1	D	702	GLU
1	D	704	ILE
1	D	708	ARG
1	D	713	SER
1	D	714	ARG
1	D	716	LEU
1	D	719	ASP
1	D	722	GLN
1	D	723	ARG
1	D	727	LEU
1	D	728	ASN
1	D	745	GLU
1	D	752	ASP
1	D	753	VAL
1	D	754	ASP
1	D	762	HIS
1	D	774	LEU
1	D	785	GLU
1	D	787	ILE
1	D	793	ARG
1	D	799	MET
1	D	802	GLU
1	D	804	ARG

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Mol	Chain	Res	Type
1	D	810	ARG
1	D	816	ILE
1	D	822	SER
1	D	832	MET
1	D	834	LEU
1	D	838	ILE
1	D	842	LEU
1	D	843	LYS
3	F	48	LYS
3	F	68	PHE
3	F	83	THR
3	F	95	ASP
3	F	96	LYS
1	G	4	ASP
1	G	7	MET
1	G	12	GLU
1	G	15	PRO
1	G	17	LEU
1	G	20	SER
1	G	22	LYS
1	G	36	SER
1	G	37	SER
1	G	46	SER
1	G	61	THR
1	G	69	THR
1	G	70	LEU
1	G	72	VAL
1	G	73	LYS
1	G	75	ASP
1	G	76	GLN
1	G	97	LEU
1	G	106	LEU
1	G	109	ARG
1	G	114	MET
1	G	117	THR
1	G	121	LEU
1	G	126	VAL
1	G	127	ASN
1	G	135	TYR
1	G	136	ASN
1	G	146	LYS
1	G	149	GLN

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Mol	Chain	Res	Type
1	G	155	ILE
1	G	157	SER
1	G	158	ILE
1	G	159	SER
1	G	165	PHE
1	G	167	LEU
1	G	169	ASP
1	G	173	GLN
1	G	178	THR
1	G	185	LYS
1	G	186	THR
1	G	187	VAL
1	G	189	THR
1	G	191	ARG
1	G	193	ILE
1	G	194	GLN
1	G	198	THR
1	G	199	ILE
1	G	218	LEU
1	G	219	GLU
1	G	221	GLN
1	G	223	ILE
1	G	229	LEU
1	G	243	SER
1	G	244	SER
1	G	245	ARG
1	G	251	ARG
1	G	264	ASP
1	G	273	SER
1	G	274	ARG
1	G	278	GLN
1	G	282	GLU
1	G	287	ILE
1	G	290	GLN
1	G	294	ASN
1	G	298	GLU
1	G	300	ILE
1	G	325	ILE
1	G	331	LEU
1	G	336	SER
1	G	351	ILE
1	G	354	LEU

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Mol	Chain	Res	Type
1	G	364	LEU
1	G	365	LYS
1	G	372	GLU
1	G	376	GLU
1	G	381	GLU
1	G	389	LEU
1	G	392	LEU
1	G	394	SER
1	G	399	LYS
1	G	405	ARG
1	G	410	ASN
1	G	439	LEU
1	G	447	GLN
1	G	448	GLN
1	G	449	LEU
1	G	453	GLN
1	G	455	ARG
1	G	457	TYR
1	G	462	LEU
1	G	471	ASP
1	G	474	SER
1	G	480	ILE
1	G	487	LEU
1	G	495	MET
1	G	506	GLU
1	G	513	ILE
1	G	518	ASP
1	G	524	GLU
1	G	532	ILE
1	G	534	SER
1	G	537	GLU
1	G	543	PRO
1	G	549	SER
1	G	561	LYS
1	G	562	SER
1	G	563	ASN
1	G	569	LYS
1	G	580	SER
1	G	593	SER
1	G	597	GLU
1	G	604	ASN
1	G	608	ILE

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Mol	Chain	Res	Type
1	G	610	LEU
1	G	615	SER
1	G	621	LEU
1	G	625	THR
1	G	664	LEU
1	G	666	SER
1	G	673	ARG
1	G	675	ILE
1	G	676	ILE
1	G	686	MET
1	G	689	GLU
1	G	690	LEU
1	G	693	HIS
1	G	698	ASN
1	G	701	LEU
1	G	702	GLU
1	G	704	ILE
1	G	708	ARG
1	G	713	SER
1	G	714	ARG
1	G	716	LEU
1	G	719	ASP
1	G	722	GLN
1	G	723	ARG
1	G	727	LEU
1	G	728	ASN
1	G	745	GLU
1	G	752	ASP
1	G	753	VAL
1	G	754	ASP
1	G	762	HIS
1	G	774	LEU
1	G	785	GLU
1	G	787	ILE
1	G	793	ARG
1	G	799	MET
1	G	802	GLU
1	G	804	ARG
1	G	810	ARG
1	G	816	ILE
1	G	822	SER
1	G	832	MET

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Mol	Chain	Res	Type
1	G	834	LEU
1	G	838	ILE
1	G	842	LEU
1	G	843	LYS
2	H	142	PRO
3	I	48	LYS
3	I	68	PHE
3	I	83	THR
3	I	95	ASP
3	I	96	LYS
1	J	4	ASP
1	J	7	MET
1	J	12	GLU
1	J	15	PRO
1	J	17	LEU
1	J	20	SER
1	J	22	LYS
1	J	36	SER
1	J	37	SER
1	J	46	SER
1	J	61	THR
1	J	69	THR
1	J	70	LEU
1	J	72	VAL
1	J	73	LYS
1	J	75	ASP
1	J	76	GLN
1	J	97	LEU
1	J	106	LEU
1	J	109	ARG
1	J	114	MET
1	J	117	THR
1	J	121	LEU
1	J	126	VAL
1	J	127	ASN
1	J	135	TYR
1	J	136	ASN
1	J	146	LYS
1	J	149	GLN
1	J	155	ILE
1	J	157	SER
1	J	158	ILE

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Mol	Chain	Res	Type
1	J	159	SER
1	J	165	PHE
1	J	167	LEU
1	J	169	ASP
1	J	173	GLN
1	J	178	THR
1	J	185	LYS
1	J	186	THR
1	J	187	VAL
1	J	189	THR
1	J	191	ARG
1	J	193	ILE
1	J	194	GLN
1	J	198	THR
1	J	199	ILE
1	J	218	LEU
1	J	219	GLU
1	J	221	GLN
1	J	223	ILE
1	J	229	LEU
1	J	244	SER
1	J	245	ARG
1	J	251	ARG
1	J	264	ASP
1	J	273	SER
1	J	274	ARG
1	J	278	GLN
1	J	282	GLU
1	J	287	ILE
1	J	290	GLN
1	J	294	ASN
1	J	298	GLU
1	J	300	ILE
1	J	325	ILE
1	J	331	LEU
1	J	336	SER
1	J	351	ILE
1	J	354	LEU
1	J	364	LEU
1	J	365	LYS
1	J	372	GLU
1	J	376	GLU

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Mol	Chain	Res	Type
1	J	381	GLU
1	J	389	LEU
1	J	392	LEU
1	J	394	SER
1	J	399	LYS
1	J	405	ARG
1	J	410	ASN
1	J	439	LEU
1	J	447	GLN
1	J	448	GLN
1	J	449	LEU
1	J	453	GLN
1	J	455	ARG
1	J	457	TYR
1	J	462	LEU
1	J	471	ASP
1	J	474	SER
1	J	480	ILE
1	J	487	LEU
1	J	495	MET
1	J	499	GLU
1	J	506	GLU
1	J	513	ILE
1	J	518	ASP
1	J	524	GLU
1	J	532	ILE
1	J	534	SER
1	J	537	GLU
1	J	543	PRO
1	J	549	SER
1	J	561	LYS
1	J	562	SER
1	J	563	ASN
1	J	569	LYS
1	J	580	SER
1	J	593	SER
1	J	597	GLU
1	J	604	ASN
1	J	608	ILE
1	J	610	LEU
1	J	615	SER
1	J	621	LEU

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Mol	Chain	Res	Type
1	J	625	THR
1	J	664	LEU
1	J	666	SER
1	J	673	ARG
1	J	675	ILE
1	J	676	ILE
1	J	686	MET
1	J	689	GLU
1	J	690	LEU
1	J	693	HIS
1	J	698	ASN
1	J	701	LEU
1	J	702	GLU
1	J	708	ARG
1	J	713	SER
1	J	714	ARG
1	J	716	LEU
1	J	719	ASP
1	J	722	GLN
1	J	723	ARG
1	J	727	LEU
1	J	728	ASN
1	J	745	GLU
1	J	752	ASP
1	J	753	VAL
1	J	754	ASP
1	J	762	HIS
1	J	774	LEU
1	J	785	GLU
1	J	787	ILE
1	J	793	ARG
1	J	799	MET
1	J	802	GLU
1	J	804	ARG
1	J	810	ARG
1	J	816	ILE
1	J	822	SER
1	J	832	MET
1	J	834	LEU
1	J	838	ILE
1	J	842	LEU
1	J	843	LYS

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Mol	Chain	Res	Type
2	K	142	PRO
3	L	48	LYS
3	L	68	PHE
3	L	83	THR
3	L	95	ASP
3	L	96	LYS
1	P	4	ASP
1	P	7	MET
1	P	12	GLU
1	P	15	PRO
1	P	17	LEU
1	P	20	SER
1	P	22	LYS
1	P	36	SER
1	P	37	SER
1	P	46	SER
1	P	61	THR
1	P	69	THR
1	P	70	LEU
1	P	72	VAL
1	P	73	LYS
1	P	75	ASP
1	P	76	GLN
1	P	97	LEU
1	P	106	LEU
1	P	109	ARG
1	P	114	MET
1	P	117	THR
1	P	121	LEU
1	P	126	VAL
1	P	127	ASN
1	P	135	TYR
1	P	136	ASN
1	P	146	LYS
1	P	149	GLN
1	P	155	ILE
1	P	157	SER
1	P	158	ILE
1	P	159	SER
1	P	165	PHE
1	P	167	LEU
1	P	169	ASP

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Mol	Chain	Res	Type
1	P	173	GLN
1	P	178	THR
1	P	185	LYS
1	P	186	THR
1	P	187	VAL
1	P	189	THR
1	P	191	ARG
1	P	193	ILE
1	P	194	GLN
1	P	198	THR
1	P	199	ILE
1	P	218	LEU
1	P	219	GLU
1	P	221	GLN
1	P	223	ILE
1	P	229	LEU
1	P	244	SER
1	P	245	ARG
1	P	251	ARG
1	P	264	ASP
1	P	273	SER
1	P	274	ARG
1	P	278	GLN
1	P	282	GLU
1	P	287	ILE
1	P	290	GLN
1	P	294	ASN
1	P	298	GLU
1	P	300	ILE
1	P	325	ILE
1	P	331	LEU
1	P	336	SER
1	P	351	ILE
1	P	354	LEU
1	P	364	LEU
1	P	365	LYS
1	P	372	GLU
1	P	376	GLU
1	P	381	GLU
1	P	389	LEU
1	P	392	LEU
1	P	394	SER

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Mol	Chain	Res	Type
1	P	399	LYS
1	P	405	ARG
1	P	410	ASN
1	P	439	LEU
1	P	447	GLN
1	P	448	GLN
1	P	449	LEU
1	P	453	GLN
1	P	455	ARG
1	P	457	TYR
1	P	462	LEU
1	P	471	ASP
1	P	474	SER
1	P	480	ILE
1	P	487	LEU
1	P	495	MET
1	P	499	GLU
1	P	506	GLU
1	P	513	ILE
1	P	518	ASP
1	P	524	GLU
1	P	532	ILE
1	P	534	SER
1	P	537	GLU
1	P	543	PRO
1	P	549	SER
1	P	561	LYS
1	P	562	SER
1	P	563	ASN
1	P	569	LYS
1	P	580	SER
1	P	593	SER
1	P	597	GLU
1	P	604	ASN
1	P	608	ILE
1	P	610	LEU
1	P	615	SER
1	P	621	LEU
1	P	625	THR
1	P	664	LEU
1	P	666	SER
1	P	673	ARG

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Mol	Chain	Res	Type
1	P	675	ILE
1	P	676	ILE
1	P	686	MET
1	P	689	GLU
1	P	690	LEU
1	P	693	HIS
1	P	698	ASN
1	P	701	LEU
1	P	702	GLU
1	P	708	ARG
1	P	713	SER
1	P	714	ARG
1	P	716	LEU
1	P	719	ASP
1	P	722	GLN
1	P	723	ARG
1	P	727	LEU
1	P	728	ASN
1	P	745	GLU
1	P	752	ASP
1	P	753	VAL
1	P	754	ASP
1	P	762	HIS
1	P	774	LEU
1	P	785	GLU
1	P	787	ILE
1	P	793	ARG
1	P	799	MET
1	P	802	GLU
1	P	804	ARG
1	P	810	ARG
1	P	816	ILE
1	P	822	SER
1	P	832	MET
1	P	834	LEU
1	P	838	ILE
1	P	842	LEU
1	P	843	LYS
2	Q	142	PRO
3	R	48	LYS
3	R	68	PHE
3	R	83	THR

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Mol	Chain	Res	Type
3	R	95	ASP
3	R	96	LYS
4	0	16	LEU
4	0	33	SER
4	0	34	ILE
4	0	37	ARG
4	0	66	THR
4	0	72	GLU
4	0	80	ASP
4	0	100	GLU
4	0	109	PRO
4	0	116	ARG
4	0	145	SER
4	0	153	LEU
4	0	159	VAL
4	0	180	LEU
4	0	191	LYS
4	0	196	ARG
4	0	199	SER
4	0	201	VAL
4	0	206	ARG
4	0	221	LEU
4	0	223	PHE
4	0	229	THR
4	0	239	SER
4	0	242	LEU
4	0	246	GLN
4	0	263	GLN
4	0	281	SER
4	0	283	MET
4	0	287	ILE
4	0	291	LYS
4	0	293	LEU
4	0	297	ASN
4	0	299	MET
4	0	312	ARG
4	0	315	LYS
4	0	318	THR
4	0	320	LEU
4	0	327	ILE
4	0	334	GLU
4	0	349	LEU

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Mol	Chain	Res	Type
4	0	350	SER
4	0	351	THR
4	0	354	GLN
4	0	359	LYS
4	0	360	GLN
4	0	361	GLU
4	0	368	SER
4	1	33	SER
4	1	34	ILE
4	1	37	ARG
4	1	66	THR
4	1	72	GLU
4	1	80	ASP
4	1	100	GLU
4	1	109	PRO
4	1	116	ARG
4	1	145	SER
4	1	153	LEU
4	1	159	VAL
4	1	180	LEU
4	1	191	LYS
4	1	196	ARG
4	1	199	SER
4	1	201	VAL
4	1	206	ARG
4	1	221	LEU
4	1	223	PHE
4	1	229	THR
4	1	239	SER
4	1	242	LEU
4	1	246	GLN
4	1	263	GLN
4	1	281	SER
4	1	283	MET
4	1	287	ILE
4	1	291	LYS
4	1	293	LEU
4	1	297	ASN
4	1	299	MET
4	1	312	ARG
4	1	315	LYS
4	1	318	THR

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Mol	Chain	Res	Type
4	1	320	LEU
4	1	327	ILE
4	1	334	GLU
4	1	349	LEU
4	1	350	SER
4	1	351	THR
4	1	354	GLN
4	1	359	LYS
4	1	360	GLN
4	1	361	GLU
4	1	368	SER
4	2	33	SER
4	2	34	ILE
4	2	37	ARG
4	2	66	THR
4	2	72	GLU
4	2	80	ASP
4	2	100	GLU
4	2	109	PRO
4	2	116	ARG
4	2	145	SER
4	2	153	LEU
4	2	159	VAL
4	2	180	LEU
4	2	191	LYS
4	2	196	ARG
4	2	199	SER
4	2	201	VAL
4	2	206	ARG
4	2	221	LEU
4	2	223	PHE
4	2	229	THR
4	2	239	SER
4	2	242	LEU
4	2	246	GLN
4	2	263	GLN
4	2	281	SER
4	2	283	MET
4	2	287	ILE
4	2	291	LYS
4	2	293	LEU
4	2	297	ASN

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Mol	Chain	Res	Type
4	2	299	MET
4	2	312	ARG
4	2	315	LYS
4	2	318	THR
4	2	320	LEU
4	2	327	ILE
4	2	334	GLU
4	2	349	LEU
4	2	350	SER
4	2	351	THR
4	2	354	GLN
4	2	359	LYS
4	2	360	GLN
4	2	361	GLU
4	2	368	SER
4	3	33	SER
4	3	34	ILE
4	3	37	ARG
4	3	66	THR
4	3	72	GLU
4	3	80	ASP
4	3	100	GLU
4	3	109	PRO
4	3	116	ARG
4	3	145	SER
4	3	153	LEU
4	3	159	VAL
4	3	180	LEU
4	3	191	LYS
4	3	196	ARG
4	3	199	SER
4	3	201	VAL
4	3	206	ARG
4	3	221	LEU
4	3	223	PHE
4	3	229	THR
4	3	239	SER
4	3	242	LEU
4	3	246	GLN
4	3	263	GLN
4	3	281	SER
4	3	283	MET

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Mol	Chain	Res	Type
4	3	287	ILE
4	3	291	LYS
4	3	293	LEU
4	3	297	ASN
4	3	299	MET
4	3	312	ARG
4	3	315	LYS
4	3	318	THR
4	3	320	LEU
4	3	327	ILE
4	3	334	GLU
4	3	349	LEU
4	3	350	SER
4	3	351	THR
4	3	354	GLN
4	3	359	LYS
4	3	360	GLN
4	3	361	GLU
4	3	368	SER
4	4	33	SER
4	4	34	ILE
4	4	37	ARG
4	4	66	THR
4	4	72	GLU
4	4	80	ASP
4	4	100	GLU
4	4	109	PRO
4	4	116	ARG
4	4	145	SER
4	4	153	LEU
4	4	159	VAL
4	4	180	LEU
4	4	191	LYS
4	4	196	ARG
4	4	199	SER
4	4	201	VAL
4	4	206	ARG
4	4	221	LEU
4	4	223	PHE
4	4	229	THR
4	4	239	SER
4	4	242	LEU

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Mol	Chain	Res	Type
4	4	246	GLN
4	4	263	GLN
4	4	281	SER
4	4	283	MET
4	4	287	ILE
4	4	291	LYS
4	4	293	LEU
4	4	297	ASN
4	4	299	MET
4	4	312	ARG
4	4	315	LYS
4	4	318	THR
4	4	320	LEU
4	4	327	ILE
4	4	334	GLU
4	4	349	LEU
4	4	350	SER
4	4	351	THR
4	4	354	GLN
4	4	359	LYS
4	4	360	GLN
4	4	361	GLU
4	4	368	SER
4	5	33	SER
4	5	34	ILE
4	5	37	ARG
4	5	66	THR
4	5	72	GLU
4	5	80	ASP
4	5	100	GLU
4	5	109	PRO
4	5	116	ARG
4	5	145	SER
4	5	153	LEU
4	5	159	VAL
4	5	180	LEU
4	5	191	LYS
4	5	196	ARG
4	5	199	SER
4	5	201	VAL
4	5	206	ARG
4	5	221	LEU

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Mol	Chain	Res	Type
4	5	223	PHE
4	5	229	THR
4	5	239	SER
4	5	242	LEU
4	5	246	GLN
4	5	263	GLN
4	5	281	SER
4	5	283	MET
4	5	287	ILE
4	5	291	LYS
4	5	293	LEU
4	5	297	ASN
4	5	299	MET
4	5	312	ARG
4	5	315	LYS
4	5	318	THR
4	5	320	LEU
4	5	327	ILE
4	5	334	GLU
4	5	349	LEU
4	5	350	SER
4	5	351	THR
4	5	354	GLN
4	5	359	LYS
4	5	360	GLN
4	5	361	GLU
4	5	368	SER
4	7	33	SER
4	7	34	ILE
4	7	37	ARG
4	7	66	THR
4	7	72	GLU
4	7	80	ASP
4	7	100	GLU
4	7	109	PRO
4	7	116	ARG
4	7	145	SER
4	7	153	LEU
4	7	159	VAL
4	7	180	LEU
4	7	191	LYS
4	7	196	ARG

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Mol	Chain	Res	Type
4	7	199	SER
4	7	201	VAL
4	7	206	ARG
4	7	221	LEU
4	7	223	PHE
4	7	229	THR
4	7	239	SER
4	7	242	LEU
4	7	246	GLN
4	7	263	GLN
4	7	281	SER
4	7	283	MET
4	7	287	ILE
4	7	291	LYS
4	7	293	LEU
4	7	297	ASN
4	7	299	MET
4	7	312	ARG
4	7	315	LYS
4	7	318	THR
4	7	320	LEU
4	7	327	ILE
4	7	334	GLU
4	7	349	LEU
4	7	350	SER
4	7	351	THR
4	7	354	GLN
4	7	359	LYS
4	7	360	GLN
4	7	361	GLU
4	7	368	SER
4	8	33	SER
4	8	34	ILE
4	8	37	ARG
4	8	66	THR
4	8	72	GLU
4	8	80	ASP
4	8	100	GLU
4	8	109	PRO
4	8	116	ARG
4	8	145	SER
4	8	153	LEU

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Mol	Chain	Res	Type
4	8	159	VAL
4	8	180	LEU
4	8	191	LYS
4	8	196	ARG
4	8	199	SER
4	8	201	VAL
4	8	206	ARG
4	8	221	LEU
4	8	223	PHE
4	8	229	THR
4	8	239	SER
4	8	242	LEU
4	8	246	GLN
4	8	263	GLN
4	8	281	SER
4	8	283	MET
4	8	287	ILE
4	8	291	LYS
4	8	293	LEU
4	8	297	ASN
4	8	299	MET
4	8	312	ARG
4	8	315	LYS
4	8	318	THR
4	8	320	LEU
4	8	327	ILE
4	8	334	GLU
4	8	349	LEU
4	8	350	SER
4	8	351	THR
4	8	354	GLN
4	8	359	LYS
4	8	360	GLN
4	8	361	GLU
4	8	368	SER
4	9	16	LEU
4	9	33	SER
4	9	34	ILE
4	9	37	ARG
4	9	66	THR
4	9	72	GLU
4	9	80	ASP

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Mol	Chain	Res	Type
4	9	100	GLU
4	9	109	PRO
4	9	116	ARG
4	9	145	SER
4	9	153	LEU
4	9	159	VAL
4	9	180	LEU
4	9	191	LYS
4	9	196	ARG
4	9	199	SER
4	9	201	VAL
4	9	206	ARG
4	9	221	LEU
4	9	223	PHE
4	9	229	THR
4	9	239	SER
4	9	242	LEU
4	9	246	GLN
4	9	263	GLN
4	9	281	SER
4	9	283	MET
4	9	287	ILE
4	9	291	LYS
4	9	293	LEU
4	9	297	ASN
4	9	299	MET
4	9	312	ARG
4	9	315	LYS
4	9	318	THR
4	9	320	LEU
4	9	327	ILE
4	9	334	GLU
4	9	349	LEU
4	9	350	SER
4	9	351	THR
4	9	354	GLN
4	9	359	LYS
4	9	360	GLN
4	9	361	GLU
4	9	368	SER
4	V	16	LEU
4	V	33	SER

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Mol	Chain	Res	Type
4	V	34	ILE
4	V	37	ARG
4	V	66	THR
4	V	72	GLU
4	V	80	ASP
4	V	100	GLU
4	V	109	PRO
4	V	116	ARG
4	V	145	SER
4	V	153	LEU
4	V	159	VAL
4	V	180	LEU
4	V	191	LYS
4	V	196	ARG
4	V	199	SER
4	V	201	VAL
4	V	206	ARG
4	V	221	LEU
4	V	223	PHE
4	V	229	THR
4	V	239	SER
4	V	242	LEU
4	V	246	GLN
4	V	263	GLN
4	V	281	SER
4	V	283	MET
4	V	287	ILE
4	V	291	LYS
4	V	293	LEU
4	V	297	ASN
4	V	299	MET
4	V	312	ARG
4	V	315	LYS
4	V	318	THR
4	V	320	LEU
4	V	327	ILE
4	V	334	GLU
4	V	349	LEU
4	V	350	SER
4	V	351	THR
4	V	354	GLN
4	V	359	LYS

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Mol	Chain	Res	Type
4	V	360	GLN
4	V	361	GLU
4	V	368	SER
4	W	16	LEU
4	W	33	SER
4	W	34	ILE
4	W	37	ARG
4	W	66	THR
4	W	72	GLU
4	W	80	ASP
4	W	100	GLU
4	W	109	PRO
4	W	116	ARG
4	W	145	SER
4	W	153	LEU
4	W	159	VAL
4	W	180	LEU
4	W	191	LYS
4	W	196	ARG
4	W	199	SER
4	W	201	VAL
4	W	206	ARG
4	W	221	LEU
4	W	223	PHE
4	W	229	THR
4	W	239	SER
4	W	242	LEU
4	W	246	GLN
4	W	263	GLN
4	W	281	SER
4	W	283	MET
4	W	287	ILE
4	W	291	LYS
4	W	293	LEU
4	W	297	ASN
4	W	299	MET
4	W	312	ARG
4	W	315	LYS
4	W	318	THR
4	W	320	LEU
4	W	327	ILE
4	W	334	GLU

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Mol	Chain	Res	Type
4	W	349	LEU
4	W	350	SER
4	W	351	THR
4	W	354	GLN
4	W	359	LYS
4	W	360	GLN
4	W	361	GLU
4	W	368	SER
4	X	16	LEU
4	X	33	SER
4	X	34	ILE
4	X	37	ARG
4	X	66	THR
4	X	72	GLU
4	X	80	ASP
4	X	100	GLU
4	X	109	PRO
4	X	116	ARG
4	X	145	SER
4	X	153	LEU
4	X	159	VAL
4	X	180	LEU
4	X	191	LYS
4	X	196	ARG
4	X	199	SER
4	X	201	VAL
4	X	206	ARG
4	X	221	LEU
4	X	223	PHE
4	X	229	THR
4	X	239	SER
4	X	242	LEU
4	X	246	GLN
4	X	263	GLN
4	X	281	SER
4	X	283	MET
4	X	287	ILE
4	X	291	LYS
4	X	293	LEU
4	X	297	ASN
4	X	299	MET
4	X	312	ARG

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Mol	Chain	Res	Type
4	X	315	LYS
4	X	318	THR
4	X	320	LEU
4	X	327	ILE
4	X	334	GLU
4	X	349	LEU
4	X	350	SER
4	X	351	THR
4	X	354	GLN
4	X	359	LYS
4	X	360	GLN
4	X	361	GLU
4	X	368	SER
4	Y	33	SER
4	Y	34	ILE
4	Y	37	ARG
4	Y	66	THR
4	Y	72	GLU
4	Y	80	ASP
4	Y	100	GLU
4	Y	109	PRO
4	Y	116	ARG
4	Y	145	SER
4	Y	153	LEU
4	Y	159	VAL
4	Y	180	LEU
4	Y	191	LYS
4	Y	196	ARG
4	Y	199	SER
4	Y	201	VAL
4	Y	206	ARG
4	Y	221	LEU
4	Y	223	PHE
4	Y	229	THR
4	Y	239	SER
4	Y	242	LEU
4	Y	246	GLN
4	Y	263	GLN
4	Y	281	SER
4	Y	283	MET
4	Y	287	ILE
4	Y	291	LYS

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Mol	Chain	Res	Type
4	Y	293	LEU
4	Y	297	ASN
4	Y	299	MET
4	Y	312	ARG
4	Y	315	LYS
4	Y	318	THR
4	Y	320	LEU
4	Y	327	ILE
4	Y	334	GLU
4	Y	349	LEU
4	Y	350	SER
4	Y	351	THR
4	Y	354	GLN
4	Y	359	LYS
4	Y	360	GLN
4	Y	361	GLU
4	Y	368	SER
4	Z	33	SER
4	Z	34	ILE
4	Z	37	ARG
4	Z	66	THR
4	Z	72	GLU
4	Z	80	ASP
4	Z	100	GLU
4	Z	109	PRO
4	Z	116	ARG
4	Z	145	SER
4	Z	153	LEU
4	Z	159	VAL
4	Z	180	LEU
4	Z	191	LYS
4	Z	196	ARG
4	Z	199	SER
4	Z	201	VAL
4	Z	206	ARG
4	Z	221	LEU
4	Z	223	PHE
4	Z	229	THR
4	Z	239	SER
4	Z	242	LEU
4	Z	246	GLN
4	Z	263	GLN

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Mol	Chain	Res	Type
4	Z	281	SER
4	Z	283	MET
4	Z	287	ILE
4	Z	291	LYS
4	Z	293	LEU
4	Z	297	ASN
4	Z	299	MET
4	Z	312	ARG
4	Z	315	LYS
4	Z	318	THR
4	Z	320	LEU
4	Z	327	ILE
4	Z	334	GLU
4	Z	349	LEU
4	Z	350	SER
4	Z	351	THR
4	Z	354	GLN
4	Z	359	LYS
4	Z	360	GLN
4	Z	361	GLU
4	Z	368	SER

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (206) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	28	GLN
1	A	29	ASN
1	A	127	ASN
1	A	164	GLN
1	A	188	ASN
1	A	194	GLN
1	A	221	GLN
1	A	253	HIS
1	A	290	GLN
1	A	368	GLN
1	A	424	ASN
1	A	453	GLN
1	A	481	ASN
1	A	484	ASN
1	A	563	ASN
1	A	564	ASN
1	A	578	HIS

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Mol	Chain	Res	Type
1	A	612	GLN
1	A	656	ASN
1	A	670	HIS
1	A	762	HIS
1	A	791	GLN
2	B	159	HIS
3	C	39	GLN
3	C	52	ASN
1	D	29	ASN
1	D	127	ASN
1	D	149	GLN
1	D	164	GLN
1	D	188	ASN
1	D	194	GLN
1	D	221	GLN
1	D	253	HIS
1	D	290	GLN
1	D	368	GLN
1	D	424	ASN
1	D	447	GLN
1	D	453	GLN
1	D	481	ASN
1	D	484	ASN
1	D	563	ASN
1	D	564	ASN
1	D	578	HIS
1	D	612	GLN
1	D	656	ASN
1	D	670	HIS
1	D	698	ASN
1	D	757	GLN
1	D	762	HIS
3	F	39	GLN
3	F	40	ASN
3	F	52	ASN
1	G	29	ASN
1	G	127	ASN
1	G	164	GLN
1	G	188	ASN
1	G	194	GLN
1	G	221	GLN
1	G	253	HIS

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Mol	Chain	Res	Type
1	G	290	GLN
1	G	368	GLN
1	G	424	ASN
1	G	447	GLN
1	G	453	GLN
1	G	481	ASN
1	G	484	ASN
1	G	563	ASN
1	G	564	ASN
1	G	578	HIS
1	G	612	GLN
1	G	656	ASN
1	G	670	HIS
1	G	791	GLN
3	I	39	GLN
3	I	52	ASN
1	J	29	ASN
1	J	127	ASN
1	J	164	GLN
1	J	188	ASN
1	J	194	GLN
1	J	221	GLN
1	J	253	HIS
1	J	290	GLN
1	J	368	GLN
1	J	424	ASN
1	J	447	GLN
1	J	453	GLN
1	J	481	ASN
1	J	484	ASN
1	J	563	ASN
1	J	564	ASN
1	J	578	HIS
1	J	612	GLN
1	J	656	ASN
1	J	670	HIS
1	J	698	ASN
1	J	762	HIS
1	J	791	GLN
2	K	159	HIS
3	L	39	GLN
3	L	40	ASN

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Mol	Chain	Res	Type
3	L	52	ASN
1	P	127	ASN
1	P	164	GLN
1	P	188	ASN
1	P	194	GLN
1	P	221	GLN
1	P	253	HIS
1	P	290	GLN
1	P	368	GLN
1	P	424	ASN
1	P	453	GLN
1	P	481	ASN
1	P	484	ASN
1	P	552	ASN
1	P	563	ASN
1	P	564	ASN
1	P	578	HIS
1	P	612	GLN
1	P	656	ASN
1	P	670	HIS
1	P	698	ASN
1	P	757	GLN
2	Q	159	HIS
3	R	39	GLN
3	R	52	ASN
3	R	81	GLN
4	0	41	GLN
4	0	92	ASN
4	0	137	GLN
4	0	252	ASN
4	0	263	GLN
4	1	41	GLN
4	1	87	HIS
4	1	92	ASN
4	1	137	GLN
4	1	263	GLN
4	1	354	GLN
4	2	41	GLN
4	2	92	ASN
4	2	137	GLN
4	2	252	ASN
4	2	263	GLN

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Mol	Chain	Res	Type
4	2	354	GLN
4	3	41	GLN
4	3	92	ASN
4	3	137	GLN
4	3	252	ASN
4	3	263	GLN
4	3	354	GLN
4	4	41	GLN
4	4	92	ASN
4	4	137	GLN
4	4	252	ASN
4	4	263	GLN
4	4	354	GLN
4	5	41	GLN
4	5	92	ASN
4	5	137	GLN
4	5	252	ASN
4	5	263	GLN
4	5	354	GLN
4	7	41	GLN
4	7	92	ASN
4	7	137	GLN
4	7	252	ASN
4	7	263	GLN
4	7	354	GLN
4	8	41	GLN
4	8	92	ASN
4	8	137	GLN
4	8	252	ASN
4	8	263	GLN
4	9	41	GLN
4	9	92	ASN
4	9	137	GLN
4	9	252	ASN
4	9	263	GLN
4	V	41	GLN
4	V	92	ASN
4	V	137	GLN
4	V	252	ASN
4	V	263	GLN
4	W	41	GLN
4	W	92	ASN

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Mol	Chain	Res	Type
4	W	137	GLN
4	W	252	ASN
4	W	263	GLN
4	X	41	GLN
4	X	92	ASN
4	X	137	GLN
4	X	252	ASN
4	X	263	GLN
4	X	354	GLN
4	Y	41	GLN
4	Y	92	ASN
4	Y	137	GLN
4	Y	252	ASN
4	Y	263	GLN
4	Y	354	GLN
4	Z	41	GLN
4	Z	92	ASN
4	Z	137	GLN
4	Z	252	ASN
4	Z	263	GLN
4	Z	354	GLN

5.3.3 RNA

There are no RNA molecules in this entry.

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

225 non-standard protein/DNA/RNA residues are modelled in this entry.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
1	MLY	A	528	1	9,10,11	0.88	0	6,11,13	0.67	0
1	MLY	G	35	1	9,10,11	0.72	0	6,11,13	0.40	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
1	MLY	G	248	1	9,10,11	0.82	0	6,11,13	0.62	0
1	MLY	J	190	1	9,10,11	1.26	1 (11%)	6,11,13	0.52	0
1	MLY	J	367	1	9,10,11	0.63	0	6,11,13	0.37	0
1	MLY	J	87	1	9,10,11	1.21	1 (11%)	6,11,13	0.43	0
1	MLY	G	681	1	9,10,11	0.62	0	6,11,13	0.45	0
1	MLY	G	19	1	9,10,11	1.16	1 (11%)	6,11,13	0.57	0
1	MLY	D	55	1	9,10,11	0.71	0	6,11,13	0.79	0
1	MLY	J	35	1	9,10,11	0.71	0	6,11,13	0.39	0
1	MLY	P	107	1	9,10,11	0.48	0	6,11,13	0.34	0
1	MLY	A	839	1	9,10,11	0.68	0	6,11,13	0.81	0
1	MLY	J	486	1	9,10,11	0.63	0	6,11,13	0.39	0
1	MLY	P	659	1	9,10,11	0.80	0	6,11,13	0.58	0
1	MLY	A	505	1	9,10,11	0.90	1 (11%)	6,11,13	0.34	0
1	MLY	A	764	1	9,10,11	0.85	0	6,11,13	0.35	0
1	MLY	G	764	1	9,10,11	0.83	0	6,11,13	0.36	0
1	MLY	A	431	1	9,10,11	0.52	0	6,11,13	0.45	0
1	MLY	G	659	1	9,10,11	0.83	0	6,11,13	0.58	0
1	MLY	P	236	1	9,10,11	0.80	1 (11%)	6,11,13	0.47	0
1	MLY	D	296	1	9,10,11	0.66	0	6,11,13	0.37	0
1	MLY	D	768	1	9,10,11	0.73	0	6,11,13	0.41	0
1	MLY	J	617	1	9,10,11	0.95	1 (11%)	6,11,13	0.33	0
1	MLY	G	87	1	9,10,11	1.22	1 (11%)	6,11,13	0.42	0
1	MLY	D	138	1	9,10,11	1.39	1 (11%)	6,11,13	0.85	0
1	MLY	J	528	1	9,10,11	0.88	0	6,11,13	0.66	0
1	MLY	G	49	1	9,10,11	1.09	1 (11%)	6,11,13	0.74	0
1	MLY	A	296	1	9,10,11	0.64	0	6,11,13	0.37	0
1	MLY	D	348	1	9,10,11	0.82	0	6,11,13	0.48	0
1	MLY	A	504	1	9,10,11	0.90	0	6,11,13	0.24	0
1	MLY	J	839	1	9,10,11	0.69	0	6,11,13	0.77	0
1	MLY	A	768	1	9,10,11	0.77	0	6,11,13	0.41	0
1	MLY	J	55	1	9,10,11	0.72	0	6,11,13	0.78	0
1	MLY	D	236	1	9,10,11	0.80	1 (11%)	6,11,13	0.47	0
1	MLY	A	138	1	9,10,11	1.33	1 (11%)	6,11,13	0.84	0
1	MLY	D	367	1	9,10,11	0.61	0	6,11,13	0.38	0
1	MLY	G	486	1	9,10,11	0.65	0	6,11,13	0.39	0
1	MLY	D	87	1	9,10,11	1.18	1 (11%)	6,11,13	0.45	0
1	MLY	J	504	1	9,10,11	0.85	0	6,11,13	0.23	0
1	MLY	J	768	1	9,10,11	0.77	0	6,11,13	0.42	0
1	MLY	D	505	1	9,10,11	0.84	1 (11%)	6,11,13	0.34	0
1	MLY	P	272	1	9,10,11	1.01	1 (11%)	6,11,13	0.55	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
1	MLY	P	528	1	9,10,11	0.88	0	6,11,13	0.65	0
1	MLY	J	833	1	9,10,11	1.20	1 (11%)	6,11,13	0.32	0
1	MLY	A	190	1	9,10,11	1.27	2 (22%)	6,11,13	0.51	0
1	MLY	P	367	1	9,10,11	0.62	0	6,11,13	0.36	0
1	MLY	A	87	1	9,10,11	1.21	1 (11%)	6,11,13	0.42	0
1	MLY	D	19	1	9,10,11	1.19	1 (11%)	6,11,13	0.56	0
1	MLY	P	837	1	9,10,11	0.58	0	6,11,13	0.57	0
1	MLY	G	236	1	9,10,11	0.78	1 (11%)	6,11,13	0.48	0
1	MLY	P	296	1	9,10,11	0.66	0	6,11,13	0.36	0
1	MLY	A	827	1	9,10,11	0.73	0	6,11,13	0.45	0
1	MLY	G	369	1	9,10,11	0.68	0	6,11,13	0.45	0
1	MLY	G	63	1	9,10,11	0.90	0	6,11,13	0.44	0
1	MLY	D	369	1	9,10,11	0.70	0	6,11,13	0.44	0
1	MLY	D	504	1	9,10,11	0.88	0	6,11,13	0.21	0
1	MLY	G	415	1	9,10,11	0.76	0	6,11,13	0.19	0
1	MLY	D	551	1	9,10,11	0.52	0	6,11,13	0.19	0
1	MLY	D	839	1	9,10,11	0.68	0	6,11,13	0.79	0
1	MLY	P	600	1	9,10,11	0.53	0	6,11,13	0.36	0
1	MLY	P	19	1	9,10,11	1.18	1 (11%)	6,11,13	0.57	0
1	MLY	P	431	1	9,10,11	0.52	0	6,11,13	0.44	0
1	MLY	G	768	1	9,10,11	0.72	0	6,11,13	0.41	0
1	MLY	A	598	1	9,10,11	0.91	1 (11%)	6,11,13	0.43	0
1	MLY	G	833	1	9,10,11	1.17	2 (22%)	6,11,13	0.32	0
1	MLY	D	415	1	9,10,11	0.77	0	6,11,13	0.19	0
1	MLY	D	49	1	9,10,11	1.08	1 (11%)	6,11,13	0.74	0
1	MLY	D	827	1	9,10,11	0.67	0	6,11,13	0.48	0
1	MLY	P	617	1	9,10,11	0.97	1 (11%)	6,11,13	0.33	0
1	MLY	P	768	1	9,10,11	0.77	0	6,11,13	0.43	0
1	MLY	J	59	1	9,10,11	0.87	0	6,11,13	0.50	0
1	MLY	J	659	1	9,10,11	0.83	0	6,11,13	0.57	0
1	MLY	J	353	1	9,10,11	0.85	0	6,11,13	0.78	0
1	MLY	G	296	1	9,10,11	0.65	0	6,11,13	0.37	0
1	MLY	P	30	1	9,10,11	0.89	0	6,11,13	0.30	0
1	MLY	G	551	1	9,10,11	0.52	0	6,11,13	0.20	0
1	MLY	D	353	1	9,10,11	0.85	0	6,11,13	0.80	0
1	MLY	G	839	1	9,10,11	0.68	0	6,11,13	0.80	0
1	MLY	P	295	1	9,10,11	0.80	0	6,11,13	0.35	0
1	MLY	A	19	1	9,10,11	1.12	1 (11%)	6,11,13	0.58	0
1	MLY	D	617	1	9,10,11	0.96	1 (11%)	6,11,13	0.34	0
1	MLY	J	782	1	9,10,11	0.78	0	6,11,13	0.36	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
1	MLY	G	431	1	9,10,11	0.53	0	6,11,13	0.46	0
1	MLY	A	130	1	9,10,11	0.81	0	6,11,13	0.75	0
1	MLY	J	827	1	9,10,11	0.75	0	6,11,13	0.48	0
1	MLY	D	528	1	9,10,11	0.91	0	6,11,13	0.64	0
1	MLY	A	353	1	9,10,11	0.87	0	6,11,13	0.79	0
1	MLY	D	63	1	9,10,11	0.90	0	6,11,13	0.45	0
1	MLY	G	827	1	9,10,11	0.69	0	6,11,13	0.49	0
1	MLY	G	59	1	9,10,11	0.85	0	6,11,13	0.50	0
1	MLY	D	553	1,4	9,10,11	0.69	0	6,11,13	0.55	0
1	MLY	J	613	1	9,10,11	0.55	0	6,11,13	0.64	0
1	MLY	P	833	1	9,10,11	1.19	1 (11%)	6,11,13	0.31	0
1	MLY	D	190	1	9,10,11	1.21	1 (11%)	6,11,13	0.54	0
1	MLY	G	138	1	9,10,11	1.35	1 (11%)	6,11,13	0.85	0
1	MLY	J	130	1	9,10,11	0.78	0	6,11,13	0.74	0
1	MLY	P	35	1	9,10,11	0.72	0	6,11,13	0.39	0
1	MLY	P	55	1	9,10,11	0.73	0	6,11,13	0.78	0
1	MLY	P	553	1	9,10,11	0.68	0	6,11,13	0.54	0
1	MLY	D	681	1	9,10,11	0.56	0	6,11,13	0.46	0
1	MLY	A	49	1	9,10,11	1.05	1 (11%)	6,11,13	0.74	0
1	MLY	A	348	1	9,10,11	0.86	1 (11%)	6,11,13	0.48	0
1	MLY	A	600	1	9,10,11	0.52	0	6,11,13	0.38	0
1	MLY	G	348	1	9,10,11	0.85	0	6,11,13	0.48	0
1	MLY	G	782	1	9,10,11	0.77	0	6,11,13	0.36	0
1	MLY	D	431	1	9,10,11	0.53	0	6,11,13	0.46	0
1	MLY	J	107	1	9,10,11	0.48	0	6,11,13	0.34	0
1	MLY	P	764	1	9,10,11	0.84	0	6,11,13	0.38	0
1	MLY	J	553	1	9,10,11	0.67	0	6,11,13	0.53	0
1	MLY	A	248	1	9,10,11	0.84	0	6,11,13	0.60	0
1	MLY	G	272	1	9,10,11	0.98	1 (11%)	6,11,13	0.54	0
1	MLY	J	505	1	9,10,11	0.92	1 (11%)	6,11,13	0.33	0
1	MLY	J	600	1	9,10,11	0.53	0	6,11,13	0.36	0
1	MLY	J	84	1	9,10,11	0.49	0	6,11,13	0.79	0
1	MLY	P	681	1	9,10,11	0.61	0	6,11,13	0.46	0
1	MLY	D	600	1	9,10,11	0.51	0	6,11,13	0.37	0
1	MLY	A	369	1	9,10,11	0.71	0	6,11,13	0.46	0
1	MLY	A	63	1	9,10,11	0.93	1 (11%)	6,11,13	0.44	0
1	MLY	G	107	1	9,10,11	0.47	0	6,11,13	0.34	0
1	MLY	A	551	1	9,10,11	0.52	0	6,11,13	0.19	0
1	MLY	P	353	1	9,10,11	0.85	0	6,11,13	0.79	0
1	MLY	G	553	1,4	9,10,11	0.68	0	6,11,13	0.54	0
1	MLY	D	248	1	9,10,11	0.82	0	6,11,13	0.62	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
1	MLY	J	296	1	9,10,11	0.69	0	6,11,13	0.36	0
1	MLY	D	59	1	9,10,11	0.87	0	6,11,13	0.50	0
1	MLY	A	486	1	9,10,11	0.65	0	6,11,13	0.38	0
1	MLY	J	681	1	9,10,11	0.60	0	6,11,13	0.46	0
1	MLY	J	385	1	9,10,11	1.04	1 (11%)	6,11,13	0.44	0
1	MLY	G	130	1	9,10,11	0.79	0	6,11,13	0.76	0
1	MLY	A	35	1	9,10,11	0.71	0	6,11,13	0.38	0
1	MLY	G	617	1	9,10,11	0.95	1 (11%)	6,11,13	0.34	0
1	MLY	J	837	1	9,10,11	0.58	0	6,11,13	0.55	0
1	MLY	P	130	1	9,10,11	0.77	0	6,11,13	0.75	0
1	MLY	P	49	1	9,10,11	1.10	1 (11%)	6,11,13	0.75	0
1	MLY	P	504	1	9,10,11	0.83	0	6,11,13	0.22	0
1	MLY	P	248	1	9,10,11	0.83	0	6,11,13	0.62	0
1	MLY	J	436	1	9,10,11	1.05	1 (11%)	6,11,13	0.49	0
1	MLY	J	415	1	9,10,11	0.79	0	6,11,13	0.19	0
1	MLY	J	49	1	9,10,11	1.10	1 (11%)	6,11,13	0.74	0
1	MLY	A	295	1	9,10,11	0.81	0	6,11,13	0.33	0
1	MLY	D	486	1	9,10,11	0.65	0	6,11,13	0.39	0
1	MLY	G	436	1	9,10,11	1.07	1 (11%)	6,11,13	0.48	0
1	MLY	J	138	1	9,10,11	1.33	1 (11%)	6,11,13	0.84	0
1	MLY	G	385	1	9,10,11	0.99	1 (11%)	6,11,13	0.44	0
1	MLY	A	272	1	9,10,11	1.01	1 (11%)	6,11,13	0.56	0
1	MLY	D	84	1	9,10,11	0.51	0	6,11,13	0.80	0
1	MLY	G	353	1	9,10,11	0.86	0	6,11,13	0.80	0
1	MLY	G	528	1	9,10,11	0.89	0	6,11,13	0.66	0
1	MLY	A	617	1	9,10,11	0.93	1 (11%)	6,11,13	0.34	0
1	MLY	G	367	1	9,10,11	0.64	0	6,11,13	0.39	0
1	MLY	P	505	1	9,10,11	0.92	1 (11%)	6,11,13	0.34	0
1	MLY	J	236	1	9,10,11	0.80	1 (11%)	6,11,13	0.47	0
1	MLY	J	272	1	9,10,11	1.03	1 (11%)	6,11,13	0.55	0
1	MLY	A	415	1	9,10,11	0.74	0	6,11,13	0.19	0
1	MLY	J	248	1	9,10,11	0.83	0	6,11,13	0.62	0
1	MLY	J	295	1	9,10,11	0.79	0	6,11,13	0.35	0
1	MLY	A	84	1	9,10,11	0.49	0	6,11,13	0.80	0
1	MLY	J	764	1	9,10,11	0.83	0	6,11,13	0.37	0
1	MLY	P	63	1	9,10,11	0.90	0	6,11,13	0.43	0
1	MLY	P	369	1	9,10,11	0.70	0	6,11,13	0.46	0
1	MLY	A	59	1	9,10,11	0.87	0	6,11,13	0.49	0
1	MLY	P	486	1	9,10,11	0.64	0	6,11,13	0.39	0
1	MLY	A	613	1	9,10,11	0.57	0	6,11,13	0.64	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
1	MLY	A	681	1	9,10,11	0.60	0	6,11,13	0.45	0
1	MLY	G	600	1	9,10,11	0.53	0	6,11,13	0.37	0
1	MLY	J	30	1	9,10,11	0.89	0	6,11,13	0.31	0
1	MLY	P	190	1	9,10,11	1.26	1 (11%)	6,11,13	0.53	0
1	MLY	P	87	1	9,10,11	1.25	1 (11%)	6,11,13	0.43	0
1	MLY	J	598	1	9,10,11	0.89	1 (11%)	6,11,13	0.43	0
1	MLY	D	272	1	9,10,11	0.99	1 (11%)	6,11,13	0.58	0
1	MLY	G	613	1	9,10,11	0.59	0	6,11,13	0.64	0
1	MLY	J	348	1	9,10,11	0.82	0	6,11,13	0.47	0
1	MLY	A	782	1	9,10,11	0.80	0	6,11,13	0.35	0
1	MLY	J	431	1	9,10,11	0.52	0	6,11,13	0.45	0
1	MLY	G	505	1	9,10,11	0.88	1 (11%)	6,11,13	0.36	0
1	MLY	A	30	1	9,10,11	0.88	0	6,11,13	0.32	0
1	MLY	A	107	1	9,10,11	0.46	0	6,11,13	0.35	0
1	MLY	D	833	1	9,10,11	1.17	2 (22%)	6,11,13	0.31	0
1	MLY	A	553	1,4	9,10,11	0.68	0	6,11,13	0.54	0
1	MLY	P	598	1	9,10,11	0.90	1 (11%)	6,11,13	0.43	0
1	MLY	D	613	1	9,10,11	0.57	0	6,11,13	0.64	0
1	MLY	D	436	1	9,10,11	1.10	1 (11%)	6,11,13	0.49	0
1	MLY	G	837	1	9,10,11	0.59	0	6,11,13	0.52	0
1	MLY	G	30	1	9,10,11	0.88	0	6,11,13	0.30	0
1	MLY	D	385	1	9,10,11	0.99	1 (11%)	6,11,13	0.44	0
1	MLY	P	551	1	9,10,11	0.52	0	6,11,13	0.19	0
1	MLY	G	598	1	9,10,11	0.90	1 (11%)	6,11,13	0.43	0
1	MLY	P	839	1	9,10,11	0.70	0	6,11,13	0.77	0
1	MLY	A	833	1	9,10,11	1.14	1 (11%)	6,11,13	0.32	0
1	MLY	G	295	1	9,10,11	0.81	0	6,11,13	0.33	0
1	MLY	G	190	1	9,10,11	1.24	1 (11%)	6,11,13	0.52	0
1	MLY	D	837	1	9,10,11	0.60	0	6,11,13	0.57	0
1	MLY	P	436	1	9,10,11	1.08	1 (11%)	6,11,13	0.49	0
1	MLY	D	782	1	9,10,11	0.78	0	6,11,13	0.34	0
1	MLY	J	551	1	9,10,11	0.53	0	6,11,13	0.20	0
1	MLY	P	415	1	9,10,11	0.77	0	6,11,13	0.19	0
1	MLY	P	385	1	9,10,11	1.02	1 (11%)	6,11,13	0.44	0
1	MLY	P	84	1	9,10,11	0.48	0	6,11,13	0.80	0
1	MLY	P	827	1	9,10,11	0.69	0	6,11,13	0.48	0
1	MLY	P	59	1	9,10,11	0.89	0	6,11,13	0.49	0
1	MLY	D	35	1	9,10,11	0.73	0	6,11,13	0.38	0
1	MLY	D	598	1	9,10,11	0.91	1 (11%)	6,11,13	0.44	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
1	MLY	A	659	1	9,10,11	0.83	0	6,11,13	0.60	0
1	MLY	P	613	1	9,10,11	0.56	0	6,11,13	0.63	0
1	MLY	A	837	1	9,10,11	0.61	0	6,11,13	0.54	0
1	MLY	A	236	1	9,10,11	0.80	1 (11%)	6,11,13	0.49	0
1	MLY	G	504	1	9,10,11	0.88	0	6,11,13	0.23	0
1	MLY	P	138	1	9,10,11	1.33	1 (11%)	6,11,13	0.84	0
1	MLY	D	107	1	9,10,11	0.51	0	6,11,13	0.34	0
1	MLY	A	55	1	9,10,11	0.71	0	6,11,13	0.78	0
1	MLY	G	55	1	9,10,11	0.73	0	6,11,13	0.79	0
1	MLY	J	19	1	9,10,11	1.19	1 (11%)	6,11,13	0.57	0
1	MLY	A	367	1	9,10,11	0.62	0	6,11,13	0.36	0
1	MLY	P	348	1	9,10,11	0.82	0	6,11,13	0.47	0
1	MLY	P	782	1	9,10,11	0.78	0	6,11,13	0.38	0
1	MLY	J	369	1	9,10,11	0.69	0	6,11,13	0.45	0
1	MLY	D	130	1	9,10,11	0.81	0	6,11,13	0.74	0
1	MLY	D	764	1	9,10,11	0.86	0	6,11,13	0.34	0
1	MLY	D	295	1	9,10,11	0.79	0	6,11,13	0.35	0
1	MLY	A	436	1	9,10,11	1.06	1 (11%)	6,11,13	0.50	0
1	MLY	D	659	1	9,10,11	0.82	0	6,11,13	0.59	0
1	MLY	J	63	1	9,10,11	0.91	0	6,11,13	0.43	0
1	MLY	A	385	1	9,10,11	1.00	1 (11%)	6,11,13	0.43	0
1	MLY	G	84	1	9,10,11	0.49	0	6,11,13	0.80	0
1	MLY	D	30	1	9,10,11	0.91	0	6,11,13	0.32	0

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	MLY	A	528	1	-	5/8/9/11	-
1	MLY	G	35	1	-	3/8/9/11	-
1	MLY	G	248	1	-	6/8/9/11	-
1	MLY	J	190	1	-	5/8/9/11	-
1	MLY	J	367	1	-	2/8/9/11	-
1	MLY	J	87	1	-	2/8/9/11	-
1	MLY	G	681	1	-	4/8/9/11	-
1	MLY	G	19	1	-	4/8/9/11	-
1	MLY	D	55	1	-	6/8/9/11	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	MLY	J	35	1	-	3/8/9/11	-
1	MLY	P	107	1	-	2/8/9/11	-
1	MLY	A	839	1	-	3/8/9/11	-
1	MLY	J	486	1	-	2/8/9/11	-
1	MLY	P	659	1	-	3/8/9/11	-
1	MLY	A	505	1	-	5/8/9/11	-
1	MLY	A	764	1	-	2/8/9/11	-
1	MLY	G	764	1	-	2/8/9/11	-
1	MLY	A	431	1	-	4/8/9/11	-
1	MLY	G	659	1	-	3/8/9/11	-
1	MLY	P	236	1	-	3/8/9/11	-
1	MLY	D	296	1	-	4/8/9/11	-
1	MLY	D	768	1	-	4/8/9/11	-
1	MLY	J	617	1	-	1/8/9/11	-
1	MLY	G	87	1	-	2/8/9/11	-
1	MLY	D	138	1	-	4/8/9/11	-
1	MLY	J	528	1	-	4/8/9/11	-
1	MLY	G	49	1	-	3/8/9/11	-
1	MLY	A	296	1	-	4/8/9/11	-
1	MLY	D	348	1	-	5/8/9/11	-
1	MLY	A	504	1	-	4/8/9/11	-
1	MLY	J	839	1	-	3/8/9/11	-
1	MLY	A	768	1	-	4/8/9/11	-
1	MLY	J	55	1	-	6/8/9/11	-
1	MLY	D	236	1	-	3/8/9/11	-
1	MLY	A	138	1	-	4/8/9/11	-
1	MLY	D	367	1	-	2/8/9/11	-
1	MLY	G	486	1	-	2/8/9/11	-
1	MLY	D	87	1	-	2/8/9/11	-
1	MLY	J	504	1	-	4/8/9/11	-
1	MLY	J	768	1	-	4/8/9/11	-
1	MLY	D	505	1	-	5/8/9/11	-
1	MLY	P	272	1	-	3/8/9/11	-
1	MLY	P	528	1	-	4/8/9/11	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	MLY	J	833	1	-	6/8/9/11	-
1	MLY	A	190	1	-	5/8/9/11	-
1	MLY	P	367	1	-	2/8/9/11	-
1	MLY	A	87	1	-	2/8/9/11	-
1	MLY	D	19	1	-	4/8/9/11	-
1	MLY	P	837	1	-	5/8/9/11	-
1	MLY	G	236	1	-	3/8/9/11	-
1	MLY	P	296	1	-	4/8/9/11	-
1	MLY	A	827	1	-	0/8/9/11	-
1	MLY	G	369	1	-	2/8/9/11	-
1	MLY	G	63	1	-	4/8/9/11	-
1	MLY	D	369	1	-	2/8/9/11	-
1	MLY	D	504	1	-	4/8/9/11	-
1	MLY	G	415	1	-	3/8/9/11	-
1	MLY	D	551	1	-	3/8/9/11	-
1	MLY	D	839	1	-	3/8/9/11	-
1	MLY	P	600	1	-	3/8/9/11	-
1	MLY	P	19	1	-	4/8/9/11	-
1	MLY	P	431	1	-	4/8/9/11	-
1	MLY	G	768	1	-	4/8/9/11	-
1	MLY	A	598	1	-	5/8/9/11	-
1	MLY	G	833	1	-	6/8/9/11	-
1	MLY	D	415	1	-	3/8/9/11	-
1	MLY	D	49	1	-	3/8/9/11	-
1	MLY	D	827	1	-	0/8/9/11	-
1	MLY	P	617	1	-	1/8/9/11	-
1	MLY	P	768	1	-	4/8/9/11	-
1	MLY	J	59	1	-	3/8/9/11	-
1	MLY	J	659	1	-	3/8/9/11	-
1	MLY	J	353	1	-	4/8/9/11	-
1	MLY	G	296	1	-	4/8/9/11	-
1	MLY	P	30	1	-	2/8/9/11	-
1	MLY	G	551	1	-	3/8/9/11	-
1	MLY	D	353	1	-	4/8/9/11	-
1	MLY	G	839	1	-	3/8/9/11	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	MLY	P	295	1	-	2/8/9/11	-
1	MLY	A	19	1	-	4/8/9/11	-
1	MLY	D	617	1	-	1/8/9/11	-
1	MLY	J	782	1	-	6/8/9/11	-
1	MLY	G	431	1	-	4/8/9/11	-
1	MLY	A	130	1	-	5/8/9/11	-
1	MLY	J	827	1	-	0/8/9/11	-
1	MLY	D	528	1	-	4/8/9/11	-
1	MLY	A	353	1	-	4/8/9/11	-
1	MLY	D	63	1	-	4/8/9/11	-
1	MLY	G	827	1	-	0/8/9/11	-
1	MLY	G	59	1	-	3/8/9/11	-
1	MLY	D	553	1,4	-	5/8/9/11	-
1	MLY	J	613	1	-	4/8/9/11	-
1	MLY	P	833	1	-	6/8/9/11	-
1	MLY	D	190	1	-	5/8/9/11	-
1	MLY	G	138	1	-	4/8/9/11	-
1	MLY	J	130	1	-	5/8/9/11	-
1	MLY	P	35	1	-	3/8/9/11	-
1	MLY	P	55	1	-	6/8/9/11	-
1	MLY	P	553	1	-	4/8/9/11	-
1	MLY	D	681	1	-	4/8/9/11	-
1	MLY	A	49	1	-	3/8/9/11	-
1	MLY	A	348	1	-	5/8/9/11	-
1	MLY	A	600	1	-	3/8/9/11	-
1	MLY	G	348	1	-	5/8/9/11	-
1	MLY	G	782	1	-	6/8/9/11	-
1	MLY	D	431	1	-	4/8/9/11	-
1	MLY	J	107	1	-	2/8/9/11	-
1	MLY	P	764	1	-	2/8/9/11	-
1	MLY	J	553	1	-	4/8/9/11	-
1	MLY	A	248	1	-	6/8/9/11	-
1	MLY	G	272	1	-	3/8/9/11	-
1	MLY	J	505	1	-	5/8/9/11	-
1	MLY	J	600	1	-	3/8/9/11	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	MLY	J	84	1	-	4/8/9/11	-
1	MLY	P	681	1	-	4/8/9/11	-
1	MLY	D	600	1	-	3/8/9/11	-
1	MLY	A	369	1	-	2/8/9/11	-
1	MLY	A	63	1	-	4/8/9/11	-
1	MLY	G	107	1	-	2/8/9/11	-
1	MLY	A	551	1	-	3/8/9/11	-
1	MLY	P	353	1	-	4/8/9/11	-
1	MLY	G	553	1,4	-	4/8/9/11	-
1	MLY	D	248	1	-	6/8/9/11	-
1	MLY	J	296	1	-	4/8/9/11	-
1	MLY	D	59	1	-	3/8/9/11	-
1	MLY	A	486	1	-	2/8/9/11	-
1	MLY	J	681	1	-	4/8/9/11	-
1	MLY	J	385	1	-	2/8/9/11	-
1	MLY	G	130	1	-	5/8/9/11	-
1	MLY	A	35	1	-	3/8/9/11	-
1	MLY	G	617	1	-	1/8/9/11	-
1	MLY	J	837	1	-	5/8/9/11	-
1	MLY	P	130	1	-	5/8/9/11	-
1	MLY	P	49	1	-	3/8/9/11	-
1	MLY	P	504	1	-	4/8/9/11	-
1	MLY	P	248	1	-	6/8/9/11	-
1	MLY	J	436	1	-	4/8/9/11	-
1	MLY	J	415	1	-	3/8/9/11	-
1	MLY	J	49	1	-	3/8/9/11	-
1	MLY	A	295	1	-	2/8/9/11	-
1	MLY	D	486	1	-	2/8/9/11	-
1	MLY	G	436	1	-	4/8/9/11	-
1	MLY	J	138	1	-	4/8/9/11	-
1	MLY	G	385	1	-	2/8/9/11	-
1	MLY	A	272	1	-	3/8/9/11	-
1	MLY	D	84	1	-	4/8/9/11	-
1	MLY	G	353	1	-	4/8/9/11	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	MLY	G	528	1	-	4/8/9/11	-
1	MLY	A	617	1	-	1/8/9/11	-
1	MLY	G	367	1	-	2/8/9/11	-
1	MLY	P	505	1	-	5/8/9/11	-
1	MLY	J	236	1	-	3/8/9/11	-
1	MLY	J	272	1	-	3/8/9/11	-
1	MLY	A	415	1	-	3/8/9/11	-
1	MLY	J	248	1	-	6/8/9/11	-
1	MLY	J	295	1	-	2/8/9/11	-
1	MLY	A	84	1	-	4/8/9/11	-
1	MLY	J	764	1	-	2/8/9/11	-
1	MLY	P	63	1	-	4/8/9/11	-
1	MLY	P	369	1	-	2/8/9/11	-
1	MLY	A	59	1	-	3/8/9/11	-
1	MLY	P	486	1	-	2/8/9/11	-
1	MLY	A	613	1	-	4/8/9/11	-
1	MLY	A	681	1	-	4/8/9/11	-
1	MLY	G	600	1	-	3/8/9/11	-
1	MLY	J	30	1	-	2/8/9/11	-
1	MLY	P	190	1	-	5/8/9/11	-
1	MLY	P	87	1	-	2/8/9/11	-
1	MLY	J	598	1	-	5/8/9/11	-
1	MLY	D	272	1	-	3/8/9/11	-
1	MLY	G	613	1	-	4/8/9/11	-
1	MLY	J	348	1	-	5/8/9/11	-
1	MLY	A	782	1	-	6/8/9/11	-
1	MLY	J	431	1	-	4/8/9/11	-
1	MLY	G	505	1	-	5/8/9/11	-
1	MLY	A	30	1	-	2/8/9/11	-
1	MLY	A	107	1	-	2/8/9/11	-
1	MLY	D	833	1	-	6/8/9/11	-
1	MLY	A	553	1,4	-	4/8/9/11	-
1	MLY	P	598	1	-	5/8/9/11	-
1	MLY	D	613	1	-	4/8/9/11	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	MLY	D	436	1	-	4/8/9/11	-
1	MLY	G	837	1	-	5/8/9/11	-
1	MLY	G	30	1	-	2/8/9/11	-
1	MLY	D	385	1	-	2/8/9/11	-
1	MLY	P	551	1	-	3/8/9/11	-
1	MLY	G	598	1	-	5/8/9/11	-
1	MLY	P	839	1	-	3/8/9/11	-
1	MLY	A	833	1	-	6/8/9/11	-
1	MLY	G	295	1	-	2/8/9/11	-
1	MLY	G	190	1	-	5/8/9/11	-
1	MLY	D	837	1	-	5/8/9/11	-
1	MLY	P	436	1	-	4/8/9/11	-
1	MLY	D	782	1	-	6/8/9/11	-
1	MLY	J	551	1	-	3/8/9/11	-
1	MLY	P	415	1	-	3/8/9/11	-
1	MLY	P	385	1	-	2/8/9/11	-
1	MLY	P	84	1	-	4/8/9/11	-
1	MLY	P	827	1	-	0/8/9/11	-
1	MLY	P	59	1	-	3/8/9/11	-
1	MLY	D	35	1	-	3/8/9/11	-
1	MLY	D	598	1	-	5/8/9/11	-
1	MLY	A	659	1	-	3/8/9/11	-
1	MLY	P	613	1	-	4/8/9/11	-
1	MLY	A	837	1	-	5/8/9/11	-
1	MLY	A	236	1	-	3/8/9/11	-
1	MLY	G	504	1	-	4/8/9/11	-
1	MLY	P	138	1	-	4/8/9/11	-
1	MLY	D	107	1	-	2/8/9/11	-
1	MLY	A	55	1	-	6/8/9/11	-
1	MLY	G	55	1	-	6/8/9/11	-
1	MLY	J	19	1	-	4/8/9/11	-
1	MLY	A	367	1	-	2/8/9/11	-
1	MLY	P	348	1	-	5/8/9/11	-
1	MLY	P	782	1	-	6/8/9/11	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	MLY	J	369	1	-	2/8/9/11	-
1	MLY	D	130	1	-	5/8/9/11	-
1	MLY	D	764	1	-	2/8/9/11	-
1	MLY	D	295	1	-	2/8/9/11	-
1	MLY	A	436	1	-	4/8/9/11	-
1	MLY	D	659	1	-	3/8/9/11	-
1	MLY	J	63	1	-	4/8/9/11	-
1	MLY	A	385	1	-	2/8/9/11	-
1	MLY	G	84	1	-	4/8/9/11	-
1	MLY	D	30	1	-	2/8/9/11	-

All (70) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D	138	MLY	CB-CA	-3.82	1.48	1.53
1	G	138	MLY	CB-CA	-3.68	1.48	1.53
1	P	138	MLY	CB-CA	-3.63	1.48	1.53
1	A	138	MLY	CB-CA	-3.61	1.48	1.53
1	J	138	MLY	CB-CA	-3.61	1.48	1.53
1	P	87	MLY	CB-CA	-3.24	1.49	1.53
1	D	19	MLY	CB-CA	-3.21	1.49	1.53
1	J	19	MLY	CB-CA	-3.20	1.49	1.53
1	G	87	MLY	CB-CA	-3.20	1.49	1.53
1	P	19	MLY	CB-CA	-3.16	1.49	1.53
1	A	87	MLY	CB-CA	-3.11	1.49	1.53
1	J	87	MLY	CB-CA	-3.10	1.49	1.53
1	G	19	MLY	CB-CA	-3.08	1.49	1.53
1	D	436	MLY	CB-CA	-3.06	1.49	1.53
1	D	87	MLY	CB-CA	-3.03	1.49	1.53
1	A	19	MLY	CB-CA	-2.99	1.49	1.53
1	P	436	MLY	CB-CA	-2.99	1.49	1.53
1	G	436	MLY	CB-CA	-2.96	1.49	1.53
1	P	49	MLY	CB-CA	-2.92	1.49	1.53
1	J	436	MLY	CB-CA	-2.90	1.49	1.53
1	A	436	MLY	CB-CA	-2.90	1.49	1.53
1	J	49	MLY	CB-CA	-2.89	1.49	1.53
1	J	272	MLY	CB-CA	-2.84	1.49	1.53
1	G	49	MLY	CB-CA	-2.84	1.49	1.53
1	D	49	MLY	CB-CA	-2.78	1.49	1.53
1	P	272	MLY	CB-CA	-2.78	1.49	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	272	MLY	CB-CA	-2.75	1.49	1.53
1	A	49	MLY	CB-CA	-2.72	1.49	1.53
1	D	272	MLY	CB-CA	-2.71	1.50	1.53
1	G	272	MLY	CB-CA	-2.70	1.50	1.53
1	P	190	MLY	CB-CA	-2.64	1.50	1.53
1	J	190	MLY	CB-CA	-2.60	1.50	1.53
1	J	385	MLY	CB-CA	-2.59	1.50	1.53
1	A	190	MLY	CB-CA	-2.56	1.50	1.53
1	J	833	MLY	CB-CA	-2.54	1.50	1.53
1	P	385	MLY	CB-CA	-2.52	1.50	1.53
1	G	190	MLY	CB-CA	-2.51	1.50	1.53
1	P	833	MLY	CB-CA	-2.47	1.50	1.53
1	A	385	MLY	CB-CA	-2.45	1.50	1.53
1	D	385	MLY	CB-CA	-2.43	1.50	1.53
1	D	190	MLY	CB-CA	-2.41	1.50	1.53
1	G	385	MLY	CB-CA	-2.40	1.50	1.53
1	A	598	MLY	CB-CA	-2.30	1.50	1.53
1	D	598	MLY	CB-CA	-2.30	1.50	1.53
1	J	505	MLY	CB-CA	-2.29	1.50	1.53
1	D	833	MLY	CB-CA	-2.27	1.50	1.53
1	G	598	MLY	CB-CA	-2.27	1.50	1.53
1	P	505	MLY	CB-CA	-2.27	1.50	1.53
1	D	617	MLY	CB-CA	-2.26	1.50	1.53
1	P	617	MLY	CB-CA	-2.26	1.50	1.53
1	P	598	MLY	CB-CA	-2.25	1.50	1.53
1	G	833	MLY	CB-CA	-2.25	1.50	1.53
1	A	505	MLY	CB-CA	-2.25	1.50	1.53
1	J	598	MLY	CB-CA	-2.24	1.50	1.53
1	A	833	MLY	CB-CA	-2.23	1.50	1.53
1	G	505	MLY	CB-CA	-2.19	1.50	1.53
1	J	617	MLY	CB-CA	-2.19	1.50	1.53
1	G	617	MLY	CB-CA	-2.16	1.50	1.53
1	A	236	MLY	CA-N	-2.15	1.41	1.48
1	D	236	MLY	CA-N	-2.15	1.41	1.48
1	J	236	MLY	CA-N	-2.14	1.41	1.48
1	P	236	MLY	CA-N	-2.13	1.41	1.48
1	A	617	MLY	CB-CA	-2.10	1.50	1.53
1	G	236	MLY	CA-N	-2.10	1.41	1.48
1	A	63	MLY	CB-CA	-2.07	1.50	1.53
1	G	833	MLY	CA-N	-2.07	1.41	1.48
1	D	505	MLY	CB-CA	-2.05	1.50	1.53
1	D	833	MLY	CA-N	-2.05	1.42	1.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	348	MLY	CB-CA	-2.01	1.50	1.53
1	A	190	MLY	CA-N	-2.00	1.42	1.48

There are no bond angle outliers.

There are no chirality outliers.

All (797) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
1	A	19	MLY	C-CA-CB-CG
1	A	49	MLY	N-CA-CB-CG
1	A	49	MLY	C-CA-CB-CG
1	A	55	MLY	N-CA-CB-CG
1	A	55	MLY	C-CA-CB-CG
1	A	84	MLY	C-CA-CB-CG
1	A	130	MLY	C-CA-CB-CG
1	A	248	MLY	N-CA-CB-CG
1	A	248	MLY	C-CA-CB-CG
1	A	348	MLY	N-CA-CB-CG
1	A	436	MLY	C-CA-CB-CG
1	A	486	MLY	C-CA-CB-CG
1	A	505	MLY	N-CA-CB-CG
1	A	505	MLY	C-CA-CB-CG
1	A	528	MLY	C-CA-CB-CG
1	A	551	MLY	C-CA-CB-CG
1	A	553	MLY	C-CA-CB-CG
1	A	598	MLY	N-CA-CB-CG
1	A	598	MLY	C-CA-CB-CG
1	A	613	MLY	N-CA-CB-CG
1	A	613	MLY	C-CA-CB-CG
1	A	681	MLY	C-CA-CB-CG
1	A	782	MLY	C-CA-CB-CG
1	A	782	MLY	O-C-CA-CB
1	D	19	MLY	C-CA-CB-CG
1	D	49	MLY	N-CA-CB-CG
1	D	49	MLY	C-CA-CB-CG
1	D	55	MLY	N-CA-CB-CG
1	D	55	MLY	C-CA-CB-CG
1	D	84	MLY	C-CA-CB-CG
1	D	130	MLY	C-CA-CB-CG
1	D	248	MLY	N-CA-CB-CG
1	D	248	MLY	C-CA-CB-CG

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Mol	Chain	Res	Type	Atoms
1	D	436	MLY	C-CA-CB-CG
1	D	486	MLY	C-CA-CB-CG
1	D	505	MLY	N-CA-CB-CG
1	D	505	MLY	C-CA-CB-CG
1	D	528	MLY	C-CA-CB-CG
1	D	551	MLY	C-CA-CB-CG
1	D	553	MLY	C-CA-CB-CG
1	D	553	MLY	O-C-CA-CB
1	D	598	MLY	N-CA-CB-CG
1	D	598	MLY	C-CA-CB-CG
1	D	613	MLY	N-CA-CB-CG
1	D	613	MLY	C-CA-CB-CG
1	D	681	MLY	C-CA-CB-CG
1	D	782	MLY	C-CA-CB-CG
1	D	782	MLY	O-C-CA-CB
1	G	19	MLY	C-CA-CB-CG
1	G	49	MLY	N-CA-CB-CG
1	G	49	MLY	C-CA-CB-CG
1	G	55	MLY	N-CA-CB-CG
1	G	55	MLY	C-CA-CB-CG
1	G	84	MLY	C-CA-CB-CG
1	G	130	MLY	C-CA-CB-CG
1	G	248	MLY	N-CA-CB-CG
1	G	248	MLY	C-CA-CB-CG
1	G	436	MLY	C-CA-CB-CG
1	G	486	MLY	C-CA-CB-CG
1	G	505	MLY	N-CA-CB-CG
1	G	505	MLY	C-CA-CB-CG
1	G	528	MLY	C-CA-CB-CG
1	G	551	MLY	C-CA-CB-CG
1	G	553	MLY	C-CA-CB-CG
1	G	598	MLY	N-CA-CB-CG
1	G	598	MLY	C-CA-CB-CG
1	G	613	MLY	N-CA-CB-CG
1	G	613	MLY	C-CA-CB-CG
1	G	681	MLY	C-CA-CB-CG
1	G	782	MLY	C-CA-CB-CG
1	G	782	MLY	O-C-CA-CB
1	J	19	MLY	C-CA-CB-CG
1	J	49	MLY	N-CA-CB-CG
1	J	49	MLY	C-CA-CB-CG
1	J	55	MLY	N-CA-CB-CG

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Mol	Chain	Res	Type	Atoms
1	J	55	MLY	C-CA-CB-CG
1	J	84	MLY	C-CA-CB-CG
1	J	130	MLY	C-CA-CB-CG
1	J	248	MLY	N-CA-CB-CG
1	J	248	MLY	C-CA-CB-CG
1	J	348	MLY	N-CA-CB-CG
1	J	436	MLY	C-CA-CB-CG
1	J	486	MLY	C-CA-CB-CG
1	J	505	MLY	N-CA-CB-CG
1	J	505	MLY	C-CA-CB-CG
1	J	528	MLY	C-CA-CB-CG
1	J	551	MLY	C-CA-CB-CG
1	J	553	MLY	C-CA-CB-CG
1	J	598	MLY	N-CA-CB-CG
1	J	598	MLY	C-CA-CB-CG
1	J	613	MLY	N-CA-CB-CG
1	J	613	MLY	C-CA-CB-CG
1	J	681	MLY	C-CA-CB-CG
1	J	782	MLY	C-CA-CB-CG
1	J	782	MLY	O-C-CA-CB
1	P	19	MLY	C-CA-CB-CG
1	P	49	MLY	N-CA-CB-CG
1	P	49	MLY	C-CA-CB-CG
1	P	55	MLY	N-CA-CB-CG
1	P	55	MLY	C-CA-CB-CG
1	P	84	MLY	C-CA-CB-CG
1	P	130	MLY	C-CA-CB-CG
1	P	248	MLY	N-CA-CB-CG
1	P	248	MLY	C-CA-CB-CG
1	P	348	MLY	N-CA-CB-CG
1	P	436	MLY	C-CA-CB-CG
1	P	486	MLY	C-CA-CB-CG
1	P	505	MLY	N-CA-CB-CG
1	P	505	MLY	C-CA-CB-CG
1	P	528	MLY	C-CA-CB-CG
1	P	551	MLY	C-CA-CB-CG
1	P	553	MLY	C-CA-CB-CG
1	P	598	MLY	N-CA-CB-CG
1	P	598	MLY	C-CA-CB-CG
1	P	613	MLY	N-CA-CB-CG
1	P	613	MLY	C-CA-CB-CG
1	P	681	MLY	C-CA-CB-CG

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Mol	Chain	Res	Type	Atoms
1	P	782	MLY	C-CA-CB-CG
1	P	782	MLY	O-C-CA-CB
1	A	84	MLY	CD-CE-NZ-CH1
1	D	84	MLY	CD-CE-NZ-CH1
1	G	84	MLY	CD-CE-NZ-CH1
1	J	84	MLY	CD-CE-NZ-CH1
1	P	84	MLY	CD-CE-NZ-CH1
1	A	59	MLY	CD-CE-NZ-CH1
1	A	59	MLY	CD-CE-NZ-CH2
1	A	63	MLY	CD-CE-NZ-CH1
1	A	84	MLY	CD-CE-NZ-CH2
1	A	130	MLY	CD-CE-NZ-CH1
1	A	130	MLY	CD-CE-NZ-CH2
1	A	138	MLY	CD-CE-NZ-CH1
1	A	138	MLY	CD-CE-NZ-CH2
1	A	190	MLY	CD-CE-NZ-CH2
1	A	248	MLY	CD-CE-NZ-CH1
1	A	272	MLY	CD-CE-NZ-CH1
1	A	296	MLY	CD-CE-NZ-CH1
1	A	296	MLY	CD-CE-NZ-CH2
1	A	353	MLY	CD-CE-NZ-CH1
1	A	353	MLY	CD-CE-NZ-CH2
1	A	367	MLY	CD-CE-NZ-CH2
1	A	385	MLY	CD-CE-NZ-CH1
1	A	385	MLY	CD-CE-NZ-CH2
1	A	431	MLY	CD-CE-NZ-CH2
1	A	505	MLY	CD-CE-NZ-CH2
1	A	528	MLY	CD-CE-NZ-CH1
1	A	528	MLY	CD-CE-NZ-CH2
1	A	553	MLY	CD-CE-NZ-CH2
1	A	600	MLY	CD-CE-NZ-CH2
1	A	764	MLY	CD-CE-NZ-CH1
1	A	764	MLY	CD-CE-NZ-CH2
1	A	768	MLY	CD-CE-NZ-CH1
1	A	782	MLY	CD-CE-NZ-CH1
1	A	782	MLY	CD-CE-NZ-CH2
1	A	833	MLY	CD-CE-NZ-CH1
1	A	833	MLY	CD-CE-NZ-CH2
1	A	837	MLY	CD-CE-NZ-CH1
1	A	837	MLY	CD-CE-NZ-CH2
1	A	839	MLY	CD-CE-NZ-CH2
1	D	55	MLY	CD-CE-NZ-CH2

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Mol	Chain	Res	Type	Atoms
1	D	59	MLY	CD-CE-NZ-CH1
1	D	59	MLY	CD-CE-NZ-CH2
1	D	63	MLY	CD-CE-NZ-CH1
1	D	84	MLY	CD-CE-NZ-CH2
1	D	130	MLY	CD-CE-NZ-CH1
1	D	130	MLY	CD-CE-NZ-CH2
1	D	138	MLY	CD-CE-NZ-CH1
1	D	138	MLY	CD-CE-NZ-CH2
1	D	190	MLY	CD-CE-NZ-CH2
1	D	248	MLY	CD-CE-NZ-CH1
1	D	272	MLY	CD-CE-NZ-CH1
1	D	296	MLY	CD-CE-NZ-CH1
1	D	296	MLY	CD-CE-NZ-CH2
1	D	353	MLY	CD-CE-NZ-CH1
1	D	353	MLY	CD-CE-NZ-CH2
1	D	367	MLY	CD-CE-NZ-CH2
1	D	385	MLY	CD-CE-NZ-CH1
1	D	385	MLY	CD-CE-NZ-CH2
1	D	431	MLY	CD-CE-NZ-CH2
1	D	505	MLY	CD-CE-NZ-CH2
1	D	528	MLY	CD-CE-NZ-CH1
1	D	528	MLY	CD-CE-NZ-CH2
1	D	553	MLY	CD-CE-NZ-CH2
1	D	600	MLY	CD-CE-NZ-CH2
1	D	764	MLY	CD-CE-NZ-CH1
1	D	764	MLY	CD-CE-NZ-CH2
1	D	768	MLY	CD-CE-NZ-CH1
1	D	782	MLY	CD-CE-NZ-CH1
1	D	782	MLY	CD-CE-NZ-CH2
1	D	833	MLY	CD-CE-NZ-CH1
1	D	833	MLY	CD-CE-NZ-CH2
1	D	837	MLY	CD-CE-NZ-CH1
1	D	837	MLY	CD-CE-NZ-CH2
1	D	839	MLY	CD-CE-NZ-CH2
1	G	59	MLY	CD-CE-NZ-CH1
1	G	59	MLY	CD-CE-NZ-CH2
1	G	63	MLY	CD-CE-NZ-CH1
1	G	84	MLY	CD-CE-NZ-CH2
1	G	130	MLY	CD-CE-NZ-CH1
1	G	130	MLY	CD-CE-NZ-CH2
1	G	138	MLY	CD-CE-NZ-CH1
1	G	138	MLY	CD-CE-NZ-CH2

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Mol	Chain	Res	Type	Atoms
1	G	190	MLY	CD-CE-NZ-CH2
1	G	248	MLY	CD-CE-NZ-CH1
1	G	272	MLY	CD-CE-NZ-CH1
1	G	296	MLY	CD-CE-NZ-CH1
1	G	296	MLY	CD-CE-NZ-CH2
1	G	353	MLY	CD-CE-NZ-CH1
1	G	353	MLY	CD-CE-NZ-CH2
1	G	385	MLY	CD-CE-NZ-CH1
1	G	385	MLY	CD-CE-NZ-CH2
1	G	431	MLY	CD-CE-NZ-CH2
1	G	505	MLY	CD-CE-NZ-CH2
1	G	528	MLY	CD-CE-NZ-CH1
1	G	528	MLY	CD-CE-NZ-CH2
1	G	553	MLY	CD-CE-NZ-CH2
1	G	600	MLY	CD-CE-NZ-CH2
1	G	764	MLY	CD-CE-NZ-CH1
1	G	764	MLY	CD-CE-NZ-CH2
1	G	768	MLY	CD-CE-NZ-CH1
1	G	782	MLY	CD-CE-NZ-CH1
1	G	782	MLY	CD-CE-NZ-CH2
1	G	833	MLY	CD-CE-NZ-CH1
1	G	833	MLY	CD-CE-NZ-CH2
1	G	837	MLY	CD-CE-NZ-CH1
1	G	837	MLY	CD-CE-NZ-CH2
1	G	839	MLY	CD-CE-NZ-CH2
1	J	59	MLY	CD-CE-NZ-CH1
1	J	59	MLY	CD-CE-NZ-CH2
1	J	63	MLY	CD-CE-NZ-CH1
1	J	84	MLY	CD-CE-NZ-CH2
1	J	130	MLY	CD-CE-NZ-CH1
1	J	130	MLY	CD-CE-NZ-CH2
1	J	138	MLY	CD-CE-NZ-CH1
1	J	138	MLY	CD-CE-NZ-CH2
1	J	190	MLY	CD-CE-NZ-CH2
1	J	248	MLY	CD-CE-NZ-CH1
1	J	272	MLY	CD-CE-NZ-CH1
1	J	296	MLY	CD-CE-NZ-CH1
1	J	296	MLY	CD-CE-NZ-CH2
1	J	353	MLY	CD-CE-NZ-CH1
1	J	353	MLY	CD-CE-NZ-CH2
1	J	367	MLY	CD-CE-NZ-CH2
1	J	385	MLY	CD-CE-NZ-CH1

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Mol	Chain	Res	Type	Atoms
1	J	385	MLY	CD-CE-NZ-CH2
1	J	431	MLY	CD-CE-NZ-CH2
1	J	505	MLY	CD-CE-NZ-CH2
1	J	528	MLY	CD-CE-NZ-CH1
1	J	528	MLY	CD-CE-NZ-CH2
1	J	553	MLY	CD-CE-NZ-CH2
1	J	600	MLY	CD-CE-NZ-CH2
1	J	764	MLY	CD-CE-NZ-CH1
1	J	764	MLY	CD-CE-NZ-CH2
1	J	768	MLY	CD-CE-NZ-CH1
1	J	782	MLY	CD-CE-NZ-CH1
1	J	782	MLY	CD-CE-NZ-CH2
1	J	833	MLY	CD-CE-NZ-CH1
1	J	833	MLY	CD-CE-NZ-CH2
1	J	837	MLY	CD-CE-NZ-CH1
1	J	837	MLY	CD-CE-NZ-CH2
1	J	839	MLY	CD-CE-NZ-CH2
1	P	55	MLY	CD-CE-NZ-CH2
1	P	59	MLY	CD-CE-NZ-CH1
1	P	59	MLY	CD-CE-NZ-CH2
1	P	63	MLY	CD-CE-NZ-CH1
1	P	84	MLY	CD-CE-NZ-CH2
1	P	130	MLY	CD-CE-NZ-CH1
1	P	130	MLY	CD-CE-NZ-CH2
1	P	138	MLY	CD-CE-NZ-CH1
1	P	138	MLY	CD-CE-NZ-CH2
1	P	190	MLY	CD-CE-NZ-CH2
1	P	248	MLY	CD-CE-NZ-CH1
1	P	272	MLY	CD-CE-NZ-CH1
1	P	296	MLY	CD-CE-NZ-CH1
1	P	296	MLY	CD-CE-NZ-CH2
1	P	353	MLY	CD-CE-NZ-CH1
1	P	353	MLY	CD-CE-NZ-CH2
1	P	367	MLY	CD-CE-NZ-CH2
1	P	385	MLY	CD-CE-NZ-CH1
1	P	385	MLY	CD-CE-NZ-CH2
1	P	431	MLY	CD-CE-NZ-CH2
1	P	505	MLY	CD-CE-NZ-CH2
1	P	528	MLY	CD-CE-NZ-CH1
1	P	528	MLY	CD-CE-NZ-CH2
1	P	553	MLY	CD-CE-NZ-CH2
1	P	600	MLY	CD-CE-NZ-CH2

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Mol	Chain	Res	Type	Atoms
1	P	764	MLY	CD-CE-NZ-CH1
1	P	764	MLY	CD-CE-NZ-CH2
1	P	768	MLY	CD-CE-NZ-CH1
1	P	782	MLY	CD-CE-NZ-CH1
1	P	782	MLY	CD-CE-NZ-CH2
1	P	833	MLY	CD-CE-NZ-CH1
1	P	833	MLY	CD-CE-NZ-CH2
1	P	837	MLY	CD-CE-NZ-CH1
1	P	837	MLY	CD-CE-NZ-CH2
1	P	839	MLY	CD-CE-NZ-CH2
1	A	659	MLY	CG-CD-CE-NZ
1	D	659	MLY	CG-CD-CE-NZ
1	P	659	MLY	CG-CD-CE-NZ
1	A	87	MLY	CG-CD-CE-NZ
1	G	87	MLY	CG-CD-CE-NZ
1	G	659	MLY	CG-CD-CE-NZ
1	J	87	MLY	CG-CD-CE-NZ
1	J	659	MLY	CG-CD-CE-NZ
1	P	87	MLY	CG-CD-CE-NZ
1	A	35	MLY	CG-CD-CE-NZ
1	D	35	MLY	CG-CD-CE-NZ
1	D	87	MLY	CG-CD-CE-NZ
1	G	35	MLY	CG-CD-CE-NZ
1	J	35	MLY	CG-CD-CE-NZ
1	P	35	MLY	CG-CD-CE-NZ
1	A	295	MLY	CG-CD-CE-NZ
1	D	295	MLY	CG-CD-CE-NZ
1	G	295	MLY	CG-CD-CE-NZ
1	J	295	MLY	CG-CD-CE-NZ
1	P	295	MLY	CG-CD-CE-NZ
1	A	138	MLY	CG-CD-CE-NZ
1	A	782	MLY	CG-CD-CE-NZ
1	D	782	MLY	CG-CD-CE-NZ
1	G	782	MLY	CG-CD-CE-NZ
1	J	782	MLY	CG-CD-CE-NZ
1	P	138	MLY	CG-CD-CE-NZ
1	P	782	MLY	CG-CD-CE-NZ
1	D	138	MLY	CG-CD-CE-NZ
1	J	138	MLY	CG-CD-CE-NZ
1	G	138	MLY	CG-CD-CE-NZ
1	A	55	MLY	CD-CE-NZ-CH2
1	A	190	MLY	CD-CE-NZ-CH1

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Mol	Chain	Res	Type	Atoms
1	A	248	MLY	CD-CE-NZ-CH2
1	A	348	MLY	CD-CE-NZ-CH1
1	A	348	MLY	CD-CE-NZ-CH2
1	A	367	MLY	CD-CE-NZ-CH1
1	A	431	MLY	CD-CE-NZ-CH1
1	A	504	MLY	CD-CE-NZ-CH1
1	A	504	MLY	CD-CE-NZ-CH2
1	A	505	MLY	CD-CE-NZ-CH1
1	A	600	MLY	CD-CE-NZ-CH1
1	A	659	MLY	CD-CE-NZ-CH2
1	D	190	MLY	CD-CE-NZ-CH1
1	D	248	MLY	CD-CE-NZ-CH2
1	D	272	MLY	CD-CE-NZ-CH2
1	D	348	MLY	CD-CE-NZ-CH1
1	D	348	MLY	CD-CE-NZ-CH2
1	D	367	MLY	CD-CE-NZ-CH1
1	D	431	MLY	CD-CE-NZ-CH1
1	D	504	MLY	CD-CE-NZ-CH1
1	D	504	MLY	CD-CE-NZ-CH2
1	D	505	MLY	CD-CE-NZ-CH1
1	D	600	MLY	CD-CE-NZ-CH1
1	D	659	MLY	CD-CE-NZ-CH2
1	G	55	MLY	CD-CE-NZ-CH2
1	G	190	MLY	CD-CE-NZ-CH1
1	G	248	MLY	CD-CE-NZ-CH2
1	G	272	MLY	CD-CE-NZ-CH2
1	G	348	MLY	CD-CE-NZ-CH1
1	G	348	MLY	CD-CE-NZ-CH2
1	G	367	MLY	CD-CE-NZ-CH1
1	G	367	MLY	CD-CE-NZ-CH2
1	G	431	MLY	CD-CE-NZ-CH1
1	G	504	MLY	CD-CE-NZ-CH1
1	G	504	MLY	CD-CE-NZ-CH2
1	G	505	MLY	CD-CE-NZ-CH1
1	G	600	MLY	CD-CE-NZ-CH1
1	G	659	MLY	CD-CE-NZ-CH2
1	J	55	MLY	CD-CE-NZ-CH2
1	J	190	MLY	CD-CE-NZ-CH1
1	J	248	MLY	CD-CE-NZ-CH2
1	J	348	MLY	CD-CE-NZ-CH1
1	J	348	MLY	CD-CE-NZ-CH2
1	J	367	MLY	CD-CE-NZ-CH1

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Mol	Chain	Res	Type	Atoms
1	J	431	MLY	CD-CE-NZ-CH1
1	J	504	MLY	CD-CE-NZ-CH1
1	J	504	MLY	CD-CE-NZ-CH2
1	J	505	MLY	CD-CE-NZ-CH1
1	J	600	MLY	CD-CE-NZ-CH1
1	J	659	MLY	CD-CE-NZ-CH2
1	P	190	MLY	CD-CE-NZ-CH1
1	P	248	MLY	CD-CE-NZ-CH2
1	P	348	MLY	CD-CE-NZ-CH1
1	P	348	MLY	CD-CE-NZ-CH2
1	P	367	MLY	CD-CE-NZ-CH1
1	P	431	MLY	CD-CE-NZ-CH1
1	P	504	MLY	CD-CE-NZ-CH1
1	P	504	MLY	CD-CE-NZ-CH2
1	P	505	MLY	CD-CE-NZ-CH1
1	P	600	MLY	CD-CE-NZ-CH1
1	P	659	MLY	CD-CE-NZ-CH2
1	A	84	MLY	CG-CD-CE-NZ
1	A	130	MLY	CG-CD-CE-NZ
1	D	130	MLY	CG-CD-CE-NZ
1	G	84	MLY	CG-CD-CE-NZ
1	G	130	MLY	CG-CD-CE-NZ
1	J	84	MLY	CG-CD-CE-NZ
1	J	130	MLY	CG-CD-CE-NZ
1	P	84	MLY	CG-CD-CE-NZ
1	P	130	MLY	CG-CD-CE-NZ
1	G	504	MLY	CG-CD-CE-NZ
1	P	504	MLY	CG-CD-CE-NZ
1	A	504	MLY	CG-CD-CE-NZ
1	A	681	MLY	CG-CD-CE-NZ
1	D	84	MLY	CG-CD-CE-NZ
1	D	681	MLY	CG-CD-CE-NZ
1	G	681	MLY	CG-CD-CE-NZ
1	J	504	MLY	CG-CD-CE-NZ
1	J	681	MLY	CG-CD-CE-NZ
1	P	681	MLY	CG-CD-CE-NZ
1	A	295	MLY	CA-CB-CG-CD
1	D	295	MLY	CA-CB-CG-CD
1	G	295	MLY	CA-CB-CG-CD
1	J	295	MLY	CA-CB-CG-CD
1	P	295	MLY	CA-CB-CG-CD
1	D	504	MLY	CG-CD-CE-NZ

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Mol	Chain	Res	Type	Atoms
1	A	107	MLY	CD-CE-NZ-CH1
1	A	272	MLY	CD-CE-NZ-CH2
1	A	369	MLY	CD-CE-NZ-CH2
1	A	768	MLY	CD-CE-NZ-CH2
1	D	107	MLY	CD-CE-NZ-CH1
1	D	369	MLY	CD-CE-NZ-CH2
1	D	768	MLY	CD-CE-NZ-CH2
1	G	107	MLY	CD-CE-NZ-CH1
1	G	369	MLY	CD-CE-NZ-CH2
1	G	768	MLY	CD-CE-NZ-CH2
1	J	107	MLY	CD-CE-NZ-CH1
1	J	272	MLY	CD-CE-NZ-CH2
1	J	369	MLY	CD-CE-NZ-CH2
1	J	768	MLY	CD-CE-NZ-CH2
1	P	107	MLY	CD-CE-NZ-CH1
1	P	369	MLY	CD-CE-NZ-CH2
1	P	768	MLY	CD-CE-NZ-CH2
1	A	598	MLY	CG-CD-CE-NZ
1	G	598	MLY	CG-CD-CE-NZ
1	J	598	MLY	CG-CD-CE-NZ
1	P	598	MLY	CG-CD-CE-NZ
1	D	598	MLY	CG-CD-CE-NZ
1	A	504	MLY	CA-CB-CG-CD
1	A	768	MLY	CA-CB-CG-CD
1	D	504	MLY	CA-CB-CG-CD
1	D	768	MLY	CA-CB-CG-CD
1	G	504	MLY	CA-CB-CG-CD
1	G	768	MLY	CA-CB-CG-CD
1	J	504	MLY	CA-CB-CG-CD
1	J	768	MLY	CA-CB-CG-CD
1	P	504	MLY	CA-CB-CG-CD
1	P	768	MLY	CA-CB-CG-CD
1	A	63	MLY	CD-CE-NZ-CH2
1	A	87	MLY	CD-CE-NZ-CH1
1	A	415	MLY	CD-CE-NZ-CH1
1	A	415	MLY	CD-CE-NZ-CH2
1	A	553	MLY	CD-CE-NZ-CH1
1	A	659	MLY	CD-CE-NZ-CH1
1	D	55	MLY	CD-CE-NZ-CH1
1	D	63	MLY	CD-CE-NZ-CH2
1	D	87	MLY	CD-CE-NZ-CH1
1	D	415	MLY	CD-CE-NZ-CH1

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Mol	Chain	Res	Type	Atoms
1	D	415	MLY	CD-CE-NZ-CH2
1	D	553	MLY	CD-CE-NZ-CH1
1	D	659	MLY	CD-CE-NZ-CH1
1	G	63	MLY	CD-CE-NZ-CH2
1	G	415	MLY	CD-CE-NZ-CH1
1	G	415	MLY	CD-CE-NZ-CH2
1	G	553	MLY	CD-CE-NZ-CH1
1	G	659	MLY	CD-CE-NZ-CH1
1	J	55	MLY	CD-CE-NZ-CH1
1	J	63	MLY	CD-CE-NZ-CH2
1	J	415	MLY	CD-CE-NZ-CH1
1	J	415	MLY	CD-CE-NZ-CH2
1	J	553	MLY	CD-CE-NZ-CH1
1	J	659	MLY	CD-CE-NZ-CH1
1	P	55	MLY	CD-CE-NZ-CH1
1	P	63	MLY	CD-CE-NZ-CH2
1	P	87	MLY	CD-CE-NZ-CH1
1	P	272	MLY	CD-CE-NZ-CH2
1	P	415	MLY	CD-CE-NZ-CH1
1	P	415	MLY	CD-CE-NZ-CH2
1	P	553	MLY	CD-CE-NZ-CH1
1	P	659	MLY	CD-CE-NZ-CH1
1	A	415	MLY	CA-CB-CG-CD
1	G	415	MLY	CA-CB-CG-CD
1	A	19	MLY	CD-CE-NZ-CH2
1	A	55	MLY	CD-CE-NZ-CH1
1	D	19	MLY	CD-CE-NZ-CH2
1	G	19	MLY	CD-CE-NZ-CH2
1	G	55	MLY	CD-CE-NZ-CH1
1	G	87	MLY	CD-CE-NZ-CH1
1	J	19	MLY	CD-CE-NZ-CH2
1	J	87	MLY	CD-CE-NZ-CH1
1	P	19	MLY	CD-CE-NZ-CH2
1	D	551	MLY	CG-CD-CE-NZ
1	G	551	MLY	CG-CD-CE-NZ
1	J	551	MLY	CG-CD-CE-NZ
1	P	551	MLY	CG-CD-CE-NZ
1	A	551	MLY	CG-CD-CE-NZ
1	D	415	MLY	CA-CB-CG-CD
1	J	415	MLY	CA-CB-CG-CD
1	P	415	MLY	CA-CB-CG-CD
1	A	272	MLY	CE-CD-CG-CB

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Mol	Chain	Res	Type	Atoms
1	D	272	MLY	CE-CD-CG-CB
1	J	272	MLY	CE-CD-CG-CB
1	P	272	MLY	CE-CD-CG-CB
1	G	272	MLY	CE-CD-CG-CB
1	J	296	MLY	CE-CD-CG-CB
1	P	30	MLY	CE-CD-CG-CB
1	A	296	MLY	CE-CD-CG-CB
1	A	505	MLY	CE-CD-CG-CB
1	D	30	MLY	CE-CD-CG-CB
1	D	296	MLY	CE-CD-CG-CB
1	G	296	MLY	CE-CD-CG-CB
1	J	30	MLY	CE-CD-CG-CB
1	P	296	MLY	CE-CD-CG-CB
1	A	30	MLY	CE-CD-CG-CB
1	D	505	MLY	CE-CD-CG-CB
1	G	30	MLY	CE-CD-CG-CB
1	G	505	MLY	CE-CD-CG-CB
1	J	505	MLY	CE-CD-CG-CB
1	P	505	MLY	CE-CD-CG-CB
1	A	839	MLY	CD-CE-NZ-CH1
1	D	839	MLY	CD-CE-NZ-CH1
1	G	839	MLY	CD-CE-NZ-CH1
1	J	107	MLY	CD-CE-NZ-CH2
1	J	839	MLY	CD-CE-NZ-CH1
1	P	107	MLY	CD-CE-NZ-CH2
1	P	839	MLY	CD-CE-NZ-CH1
1	A	681	MLY	CE-CD-CG-CB
1	D	681	MLY	CE-CD-CG-CB
1	G	681	MLY	CE-CD-CG-CB
1	P	681	MLY	CE-CD-CG-CB
1	D	49	MLY	CE-CD-CG-CB
1	G	49	MLY	CE-CD-CG-CB
1	J	49	MLY	CE-CD-CG-CB
1	J	681	MLY	CE-CD-CG-CB
1	A	49	MLY	CE-CD-CG-CB
1	P	49	MLY	CE-CD-CG-CB
1	D	768	MLY	CE-CD-CG-CB
1	J	353	MLY	CE-CD-CG-CB
1	P	353	MLY	CE-CD-CG-CB
1	A	353	MLY	CE-CD-CG-CB
1	G	353	MLY	CE-CD-CG-CB
1	A	190	MLY	CE-CD-CG-CB

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Mol	Chain	Res	Type	Atoms
1	A	768	MLY	CE-CD-CG-CB
1	D	353	MLY	CE-CD-CG-CB
1	G	190	MLY	CE-CD-CG-CB
1	G	768	MLY	CE-CD-CG-CB
1	J	190	MLY	CE-CD-CG-CB
1	J	768	MLY	CE-CD-CG-CB
1	P	768	MLY	CE-CD-CG-CB
1	D	190	MLY	CE-CD-CG-CB
1	P	190	MLY	CE-CD-CG-CB
1	A	782	MLY	CE-CD-CG-CB
1	D	782	MLY	CE-CD-CG-CB
1	A	369	MLY	CE-CD-CG-CB
1	G	369	MLY	CE-CD-CG-CB
1	J	369	MLY	CE-CD-CG-CB
1	J	782	MLY	CE-CD-CG-CB
1	P	369	MLY	CE-CD-CG-CB
1	P	782	MLY	CE-CD-CG-CB
1	D	369	MLY	CE-CD-CG-CB
1	G	782	MLY	CE-CD-CG-CB
1	A	107	MLY	CD-CE-NZ-CH2
1	A	236	MLY	CD-CE-NZ-CH1
1	D	107	MLY	CD-CE-NZ-CH2
1	D	236	MLY	CD-CE-NZ-CH1
1	G	107	MLY	CD-CE-NZ-CH2
1	G	236	MLY	CD-CE-NZ-CH1
1	J	236	MLY	CD-CE-NZ-CH1
1	P	236	MLY	CD-CE-NZ-CH1
1	D	190	MLY	CG-CD-CE-NZ
1	A	436	MLY	CA-CB-CG-CD
1	A	837	MLY	CA-CB-CG-CD
1	D	436	MLY	CA-CB-CG-CD
1	D	837	MLY	CA-CB-CG-CD
1	G	436	MLY	CA-CB-CG-CD
1	G	837	MLY	CA-CB-CG-CD
1	J	436	MLY	CA-CB-CG-CD
1	J	837	MLY	CA-CB-CG-CD
1	P	436	MLY	CA-CB-CG-CD
1	P	837	MLY	CA-CB-CG-CD
1	J	190	MLY	CG-CD-CE-NZ
1	P	190	MLY	CG-CD-CE-NZ
1	A	190	MLY	CG-CD-CE-NZ
1	G	190	MLY	CG-CD-CE-NZ

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Mol	Chain	Res	Type	Atoms
1	D	833	MLY	CE-CD-CG-CB
1	P	833	MLY	CE-CD-CG-CB
1	A	833	MLY	CE-CD-CG-CB
1	G	833	MLY	CE-CD-CG-CB
1	J	833	MLY	CE-CD-CG-CB
1	A	431	MLY	CA-CB-CG-CD
1	D	236	MLY	CA-CB-CG-CD
1	D	431	MLY	CA-CB-CG-CD
1	G	431	MLY	CA-CB-CG-CD
1	J	236	MLY	CA-CB-CG-CD
1	J	431	MLY	CA-CB-CG-CD
1	J	833	MLY	CA-CB-CG-CD
1	P	236	MLY	CA-CB-CG-CD
1	P	431	MLY	CA-CB-CG-CD
1	P	833	MLY	CA-CB-CG-CD
1	A	55	MLY	CG-CD-CE-NZ
1	D	55	MLY	CG-CD-CE-NZ
1	D	551	MLY	CE-CD-CG-CB
1	G	55	MLY	CG-CD-CE-NZ
1	G	617	MLY	CE-CD-CG-CB
1	J	55	MLY	CG-CD-CE-NZ
1	P	55	MLY	CG-CD-CE-NZ
1	A	617	MLY	CE-CD-CG-CB
1	D	617	MLY	CE-CD-CG-CB
1	J	617	MLY	CE-CD-CG-CB
1	P	617	MLY	CE-CD-CG-CB
1	A	236	MLY	CA-CB-CG-CD
1	A	833	MLY	CA-CB-CG-CD
1	D	833	MLY	CA-CB-CG-CD
1	G	236	MLY	CA-CB-CG-CD
1	G	833	MLY	CA-CB-CG-CD
1	A	348	MLY	C-CA-CB-CG
1	D	348	MLY	C-CA-CB-CG
1	G	348	MLY	C-CA-CB-CG
1	J	348	MLY	C-CA-CB-CG
1	P	348	MLY	C-CA-CB-CG
1	A	551	MLY	CE-CD-CG-CB
1	J	551	MLY	CE-CD-CG-CB
1	P	551	MLY	CE-CD-CG-CB
1	G	551	MLY	CE-CD-CG-CB
1	G	59	MLY	CE-CD-CG-CB
1	A	55	MLY	CE-CD-CG-CB

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Mol	Chain	Res	Type	Atoms
1	A	59	MLY	CE-CD-CG-CB
1	D	55	MLY	CE-CD-CG-CB
1	D	59	MLY	CE-CD-CG-CB
1	G	55	MLY	CE-CD-CG-CB
1	J	59	MLY	CE-CD-CG-CB
1	J	553	MLY	CE-CD-CG-CB
1	P	59	MLY	CE-CD-CG-CB
1	A	553	MLY	CE-CD-CG-CB
1	D	553	MLY	CE-CD-CG-CB
1	G	553	MLY	CE-CD-CG-CB
1	J	55	MLY	CE-CD-CG-CB
1	P	55	MLY	CE-CD-CG-CB
1	P	553	MLY	CE-CD-CG-CB
1	P	431	MLY	CE-CD-CG-CB
1	A	431	MLY	CE-CD-CG-CB
1	G	248	MLY	CE-CD-CG-CB
1	J	431	MLY	CE-CD-CG-CB
1	D	431	MLY	CE-CD-CG-CB
1	A	248	MLY	CE-CD-CG-CB
1	P	248	MLY	CE-CD-CG-CB
1	G	138	MLY	CA-CB-CG-CD
1	D	248	MLY	CE-CD-CG-CB
1	G	431	MLY	CE-CD-CG-CB
1	J	248	MLY	CE-CD-CG-CB
1	A	35	MLY	CE-CD-CG-CB
1	D	35	MLY	CE-CD-CG-CB
1	G	35	MLY	CE-CD-CG-CB
1	J	35	MLY	CE-CD-CG-CB
1	P	35	MLY	CE-CD-CG-CB
1	D	528	MLY	CG-CD-CE-NZ
1	G	528	MLY	CG-CD-CE-NZ
1	J	528	MLY	CG-CD-CE-NZ
1	P	528	MLY	CG-CD-CE-NZ
1	A	528	MLY	CG-CD-CE-NZ
1	G	248	MLY	CG-CD-CE-NZ
1	A	138	MLY	CA-CB-CG-CD
1	A	296	MLY	CA-CB-CG-CD
1	D	138	MLY	CA-CB-CG-CD
1	J	138	MLY	CA-CB-CG-CD
1	J	296	MLY	CA-CB-CG-CD
1	P	138	MLY	CA-CB-CG-CD
1	P	296	MLY	CA-CB-CG-CD

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Mol	Chain	Res	Type	Atoms
1	A	248	MLY	CG-CD-CE-NZ
1	J	248	MLY	CG-CD-CE-NZ
1	P	248	MLY	CG-CD-CE-NZ
1	D	248	MLY	CG-CD-CE-NZ
1	D	296	MLY	CA-CB-CG-CD
1	G	296	MLY	CA-CB-CG-CD
1	D	600	MLY	CE-CD-CG-CB
1	A	436	MLY	CE-CD-CG-CB
1	A	598	MLY	CE-CD-CG-CB
1	A	600	MLY	CE-CD-CG-CB
1	D	436	MLY	CE-CD-CG-CB
1	D	598	MLY	CE-CD-CG-CB
1	G	436	MLY	CE-CD-CG-CB
1	G	598	MLY	CE-CD-CG-CB
1	G	600	MLY	CE-CD-CG-CB
1	J	436	MLY	CE-CD-CG-CB
1	J	598	MLY	CE-CD-CG-CB
1	J	600	MLY	CE-CD-CG-CB
1	P	436	MLY	CE-CD-CG-CB
1	P	598	MLY	CE-CD-CG-CB
1	P	600	MLY	CE-CD-CG-CB
1	A	486	MLY	CE-CD-CG-CB
1	G	486	MLY	CE-CD-CG-CB
1	D	486	MLY	CE-CD-CG-CB
1	P	486	MLY	CE-CD-CG-CB
1	J	486	MLY	CE-CD-CG-CB
1	G	839	MLY	CE-CD-CG-CB
1	J	839	MLY	CE-CD-CG-CB
1	A	839	MLY	CE-CD-CG-CB
1	P	839	MLY	CE-CD-CG-CB
1	D	839	MLY	CE-CD-CG-CB
1	A	236	MLY	CD-CE-NZ-CH2
1	D	236	MLY	CD-CE-NZ-CH2
1	G	236	MLY	CD-CE-NZ-CH2
1	J	236	MLY	CD-CE-NZ-CH2
1	P	236	MLY	CD-CE-NZ-CH2
1	A	35	MLY	N-CA-CB-CG
1	A	63	MLY	N-CA-CB-CG
1	A	130	MLY	N-CA-CB-CG
1	A	436	MLY	N-CA-CB-CG
1	A	681	MLY	N-CA-CB-CG
1	A	833	MLY	N-CA-CB-CG

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Mol	Chain	Res	Type	Atoms
1	A	837	MLY	N-CA-CB-CG
1	D	35	MLY	N-CA-CB-CG
1	D	63	MLY	N-CA-CB-CG
1	D	130	MLY	N-CA-CB-CG
1	D	348	MLY	N-CA-CB-CG
1	D	436	MLY	N-CA-CB-CG
1	D	681	MLY	N-CA-CB-CG
1	D	833	MLY	N-CA-CB-CG
1	D	837	MLY	N-CA-CB-CG
1	G	35	MLY	N-CA-CB-CG
1	G	63	MLY	N-CA-CB-CG
1	G	130	MLY	N-CA-CB-CG
1	G	348	MLY	N-CA-CB-CG
1	G	436	MLY	N-CA-CB-CG
1	G	681	MLY	N-CA-CB-CG
1	G	833	MLY	N-CA-CB-CG
1	G	837	MLY	N-CA-CB-CG
1	J	35	MLY	N-CA-CB-CG
1	J	63	MLY	N-CA-CB-CG
1	J	130	MLY	N-CA-CB-CG
1	J	436	MLY	N-CA-CB-CG
1	J	681	MLY	N-CA-CB-CG
1	J	833	MLY	N-CA-CB-CG
1	J	837	MLY	N-CA-CB-CG
1	P	35	MLY	N-CA-CB-CG
1	P	63	MLY	N-CA-CB-CG
1	P	130	MLY	N-CA-CB-CG
1	P	436	MLY	N-CA-CB-CG
1	P	681	MLY	N-CA-CB-CG
1	P	833	MLY	N-CA-CB-CG
1	P	837	MLY	N-CA-CB-CG
1	D	833	MLY	C-CA-CB-CG
1	G	833	MLY	C-CA-CB-CG
1	J	833	MLY	C-CA-CB-CG
1	P	833	MLY	C-CA-CB-CG
1	A	19	MLY	CA-CB-CG-CD
1	D	19	MLY	CA-CB-CG-CD
1	G	19	MLY	CA-CB-CG-CD
1	J	19	MLY	CA-CB-CG-CD
1	P	19	MLY	CA-CB-CG-CD
1	D	837	MLY	CE-CD-CG-CB
1	G	837	MLY	CE-CD-CG-CB

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Mol	Chain	Res	Type	Atoms
1	J	837	MLY	CE-CD-CG-CB
1	A	19	MLY	CE-CD-CG-CB
1	A	837	MLY	CE-CD-CG-CB
1	P	837	MLY	CE-CD-CG-CB
1	J	19	MLY	CE-CD-CG-CB
1	P	19	MLY	CE-CD-CG-CB
1	D	19	MLY	CE-CD-CG-CB
1	G	19	MLY	CE-CD-CG-CB
1	D	613	MLY	CE-CD-CG-CB
1	J	613	MLY	CE-CD-CG-CB
1	P	613	MLY	CE-CD-CG-CB
1	A	613	MLY	CE-CD-CG-CB
1	G	613	MLY	CE-CD-CG-CB
1	A	598	MLY	CD-CE-NZ-CH2
1	D	598	MLY	CD-CE-NZ-CH2
1	G	598	MLY	CD-CE-NZ-CH2
1	J	598	MLY	CD-CE-NZ-CH2
1	P	598	MLY	CD-CE-NZ-CH2
1	A	63	MLY	C-CA-CB-CG
1	A	353	MLY	C-CA-CB-CG
1	A	833	MLY	C-CA-CB-CG
1	D	63	MLY	C-CA-CB-CG
1	D	353	MLY	C-CA-CB-CG
1	G	63	MLY	C-CA-CB-CG
1	G	353	MLY	C-CA-CB-CG
1	J	63	MLY	C-CA-CB-CG
1	J	353	MLY	C-CA-CB-CG
1	P	63	MLY	C-CA-CB-CG
1	P	353	MLY	C-CA-CB-CG
1	A	30	MLY	CA-CB-CG-CD
1	D	30	MLY	CA-CB-CG-CD
1	G	30	MLY	CA-CB-CG-CD
1	J	30	MLY	CA-CB-CG-CD
1	P	30	MLY	CA-CB-CG-CD
1	J	348	MLY	CE-CD-CG-CB
1	P	348	MLY	CE-CD-CG-CB
1	A	348	MLY	CE-CD-CG-CB
1	D	348	MLY	CE-CD-CG-CB
1	G	348	MLY	CE-CD-CG-CB
1	A	613	MLY	CA-CB-CG-CD
1	J	613	MLY	CA-CB-CG-CD
1	P	613	MLY	CA-CB-CG-CD

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Mol	Chain	Res	Type	Atoms
1	G	613	MLY	CA-CB-CG-CD
1	P	190	MLY	CA-CB-CG-CD
1	A	190	MLY	CA-CB-CG-CD
1	A	528	MLY	CA-CB-CG-CD
1	D	190	MLY	CA-CB-CG-CD
1	D	613	MLY	CA-CB-CG-CD
1	G	190	MLY	CA-CB-CG-CD
1	J	190	MLY	CA-CB-CG-CD

There are no ring outliers.

150 monomers are involved in 613 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	A	528	MLY	2	0
1	G	248	MLY	2	0
1	J	190	MLY	2	0
1	J	87	MLY	3	0
1	D	55	MLY	1	0
1	P	107	MLY	3	0
1	A	839	MLY	8	0
1	J	486	MLY	3	0
1	P	659	MLY	2	0
1	A	505	MLY	25	0
1	A	764	MLY	10	0
1	G	764	MLY	20	0
1	G	659	MLY	2	0
1	D	296	MLY	3	0
1	J	617	MLY	1	0
1	G	87	MLY	2	0
1	D	138	MLY	1	0
1	J	528	MLY	3	0
1	G	49	MLY	2	0
1	A	296	MLY	2	0
1	D	348	MLY	6	0
1	J	839	MLY	9	0
1	A	768	MLY	6	0
1	J	55	MLY	1	0
1	A	138	MLY	1	0
1	G	486	MLY	3	0
1	D	87	MLY	3	0
1	J	768	MLY	5	0
1	P	272	MLY	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	P	528	MLY	2	0
1	A	190	MLY	2	0
1	A	87	MLY	3	0
1	P	837	MLY	1	0
1	P	296	MLY	3	0
1	G	369	MLY	1	0
1	G	63	MLY	3	0
1	G	415	MLY	1	0
1	D	551	MLY	1	0
1	D	839	MLY	4	0
1	P	600	MLY	1	0
1	G	768	MLY	2	0
1	A	598	MLY	1	0
1	D	415	MLY	1	0
1	D	49	MLY	3	0
1	P	617	MLY	1	0
1	J	59	MLY	3	0
1	J	659	MLY	2	0
1	G	296	MLY	2	0
1	P	30	MLY	1	0
1	G	839	MLY	4	0
1	P	295	MLY	6	0
1	D	617	MLY	1	0
1	J	782	MLY	1	0
1	D	528	MLY	3	0
1	D	63	MLY	3	0
1	G	59	MLY	3	0
1	D	553	MLY	16	0
1	D	190	MLY	2	0
1	G	138	MLY	1	0
1	P	55	MLY	1	0
1	P	553	MLY	2	0
1	A	49	MLY	3	0
1	A	348	MLY	5	0
1	A	600	MLY	1	0
1	G	348	MLY	4	0
1	G	782	MLY	1	0
1	J	107	MLY	2	0
1	P	764	MLY	1	0
1	J	553	MLY	11	0
1	A	248	MLY	2	0
1	G	272	MLY	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	J	505	MLY	10	0
1	J	600	MLY	1	0
1	J	84	MLY	18	0
1	D	600	MLY	1	0
1	A	369	MLY	1	0
1	A	63	MLY	4	0
1	G	107	MLY	3	0
1	A	551	MLY	2	0
1	G	553	MLY	27	0
1	D	248	MLY	2	0
1	J	296	MLY	3	0
1	D	59	MLY	2	0
1	A	486	MLY	3	0
1	G	617	MLY	1	0
1	J	837	MLY	1	0
1	P	49	MLY	3	0
1	P	248	MLY	2	0
1	J	436	MLY	2	0
1	J	415	MLY	1	0
1	J	49	MLY	2	0
1	A	295	MLY	6	0
1	D	486	MLY	3	0
1	G	436	MLY	2	0
1	J	138	MLY	1	0
1	A	272	MLY	1	0
1	G	528	MLY	3	0
1	A	617	MLY	1	0
1	P	505	MLY	8	0
1	J	272	MLY	1	0
1	A	415	MLY	1	0
1	J	248	MLY	2	0
1	J	295	MLY	6	0
1	J	764	MLY	1	0
1	P	63	MLY	4	0
1	A	59	MLY	2	0
1	P	486	MLY	3	0
1	G	600	MLY	1	0
1	J	30	MLY	1	0
1	P	190	MLY	2	0
1	P	87	MLY	3	0
1	J	598	MLY	1	0
1	D	272	MLY	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	J	348	MLY	5	0
1	A	782	MLY	7	0
1	G	505	MLY	16	0
1	A	30	MLY	1	0
1	A	107	MLY	3	0
1	A	553	MLY	18	0
1	P	598	MLY	1	0
1	D	436	MLY	2	0
1	G	837	MLY	1	0
1	G	30	MLY	1	0
1	G	598	MLY	1	0
1	P	839	MLY	8	0
1	A	833	MLY	1	0
1	G	295	MLY	6	0
1	G	190	MLY	2	0
1	D	837	MLY	1	0
1	P	436	MLY	2	0
1	D	782	MLY	43	0
1	P	415	MLY	1	0
1	P	84	MLY	32	0
1	P	59	MLY	2	0
1	D	598	MLY	1	0
1	A	659	MLY	2	0
1	A	837	MLY	12	0
1	P	138	MLY	1	0
1	D	107	MLY	2	0
1	A	55	MLY	1	0
1	G	55	MLY	1	0
1	P	348	MLY	5	0
1	P	782	MLY	1	0
1	D	764	MLY	7	0
1	D	295	MLY	6	0
1	A	436	MLY	2	0
1	D	659	MLY	2	0
1	J	63	MLY	3	0
1	G	84	MLY	33	0
1	D	30	MLY	1	0

5.5 Carbohydrates (i)

There are no monosaccharides in this entry.

5.6 Ligand geometry (i)

There are no ligands in this entry.

5.7 Other polymers (i)

There are no such residues in this entry.

5.8 Polymer linkage issues (i)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
1	P	5
1	D	4
1	A	4
1	J	3
1	G	3
3	C	1
3	F	1
3	I	1
3	L	1
3	R	1
2	B	1
2	E	1
2	H	1
2	K	1
2	Q	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	J	769:ALA	C	770:GLY	N	5.57
1	D	769:ALA	C	770:GLY	N	4.97
1	G	769:ALA	C	770:GLY	N	4.52
1	P	786:ILE	C	787:ILE	N	4.06
1	D	709:LYS	C	710:GLY	N	3.41
1	A	709:LYS	C	710:GLY	N	2.80
1	C	4:LYS	C	5:ALA	N	2.61
1	F	4:LYS	C	5:ALA	N	2.61
1	I	4:LYS	C	5:ALA	N	2.61
1	L	4:LYS	C	5:ALA	N	2.61
1	R	4:LYS	C	5:ALA	N	2.61

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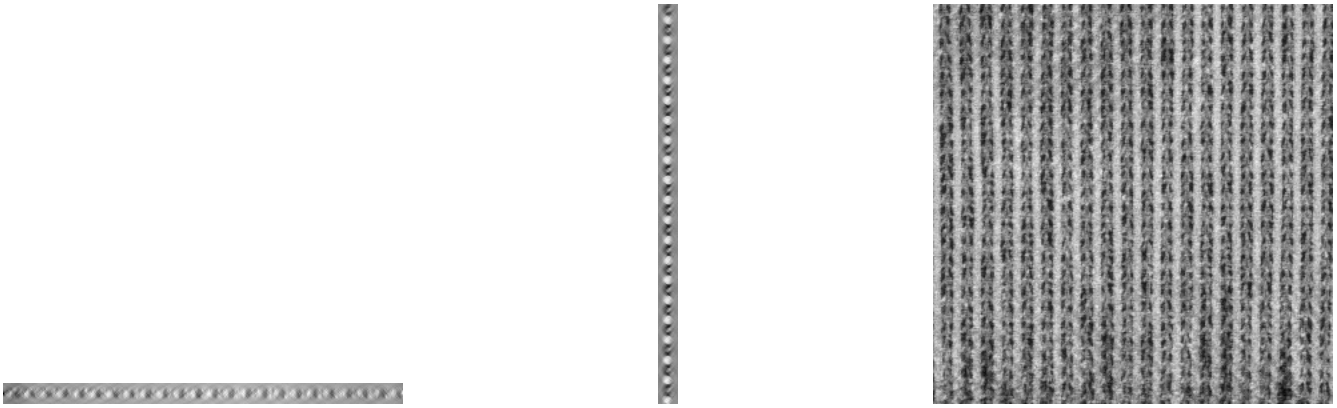
Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	A	769:ALA	C	770:GLY	N	2.46
1	B	140:PHE	C	141:PRO	N	1.09
1	E	140:PHE	C	141:PRO	N	1.09
1	H	140:PHE	C	141:PRO	N	1.09
1	K	140:PHE	C	141:PRO	N	1.09
1	Q	140:PHE	C	141:PRO	N	1.09
1	A	637:LYS	C	638:GLY	N	1.06
1	G	637:LYS	C	638:GLY	N	1.06
1	J	637:LYS	C	638:GLY	N	1.06
1	D	637:LYS	C	638:GLY	N	1.05
1	P	637:LYS	C	638:GLY	N	1.05
1	D	649:VAL	C	650:SER	N	1.03
1	J	649:VAL	C	650:SER	N	1.03
1	P	649:VAL	C	650:SER	N	1.03
1	A	649:VAL	C	650:SER	N	1.02
1	G	649:VAL	C	650:SER	N	1.02
1	P	806:MET	C	807:VAL	N	0.93
1	P	769:ALA	C	770:GLY	N	0.88

6 Tomogram visualisation

This section contains visualisations of the EMDB entry EMD-1001. These allow visual inspection of the internal detail of the tomogram and identification of artifacts.

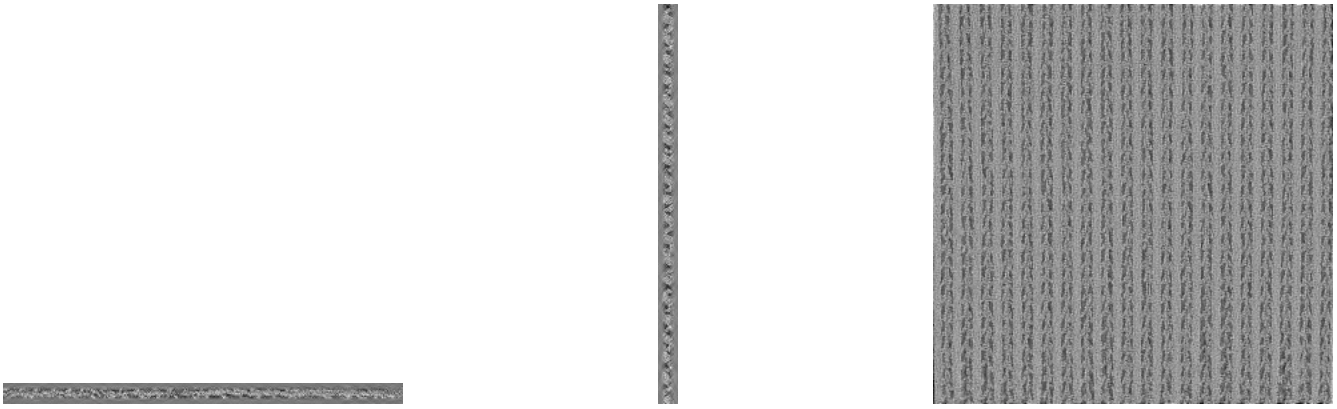
6.1 Orthogonal projections



X Y Z

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

6.2 Central slices



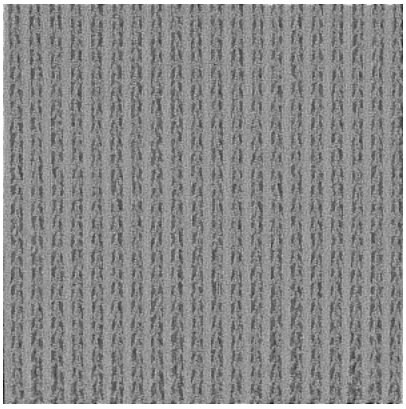
X Index: 300 Y Index: 300 Z Index: 15

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

6.3 Largest variance slices (i)

X Index: 598

Y Index: 598

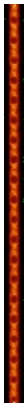


Z Index: 15

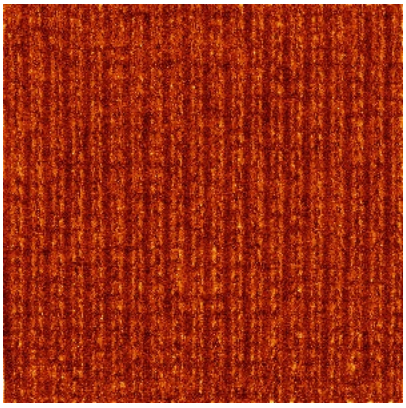
The images above show the largest variance slices of the tomogram in three orthogonal directions.

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

X



Y



Z

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

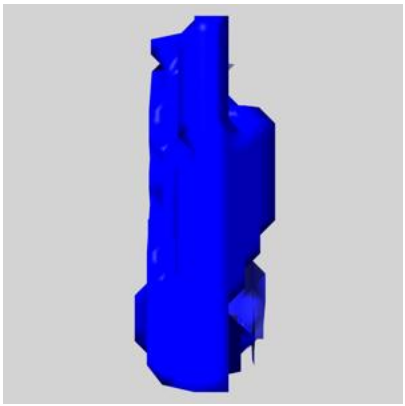
6.5 Mask visualisation

This section shows the 3D surface view of the primary map at 50% transparency overlaid with the specified mask at 0% transparency

A mask typically either:

- Encompasses the whole structure
- Separates out a domain, a functional unit, a monomer or an area of interest from a larger structure

6.5.1 emd_1001_msk_25.map



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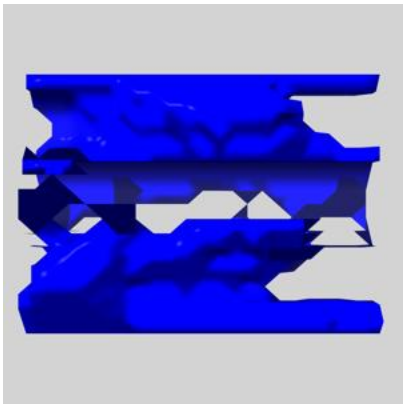

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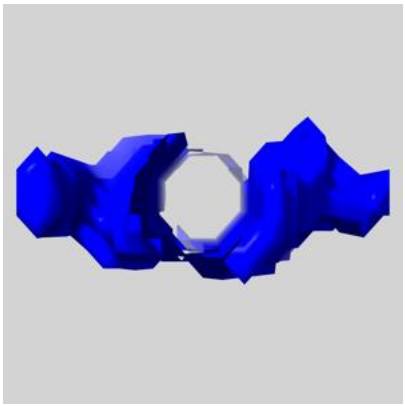

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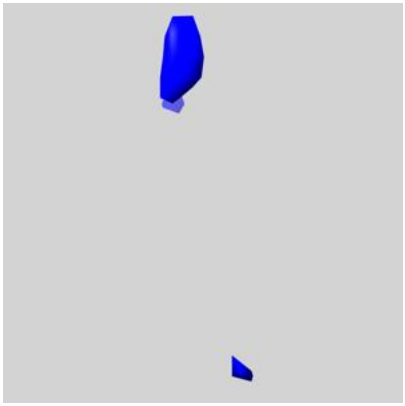
6.5.2 emd_1001_msk_24.map



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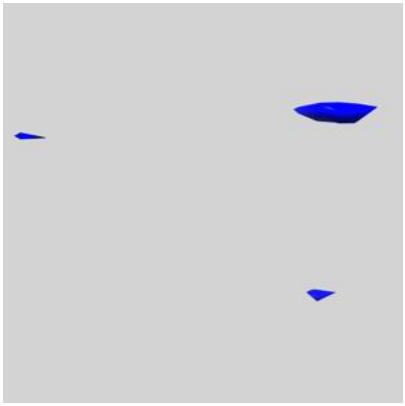

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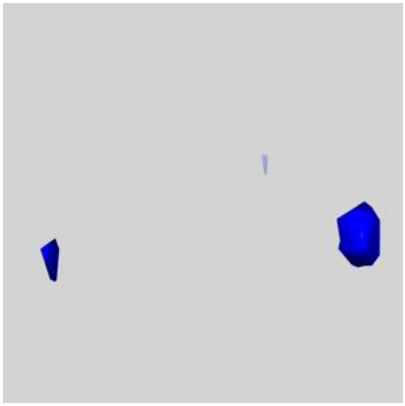
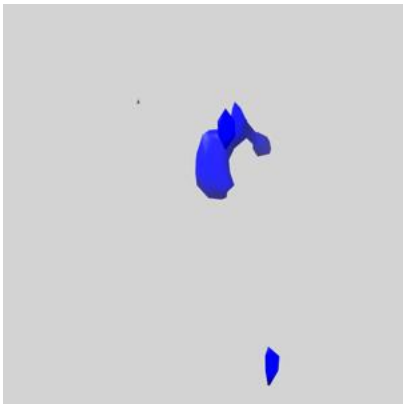


Z

6.5.3 emd_1001_msk_23.map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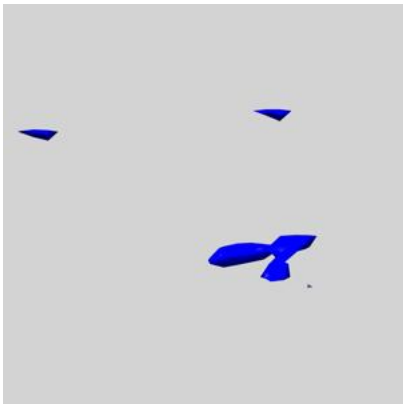
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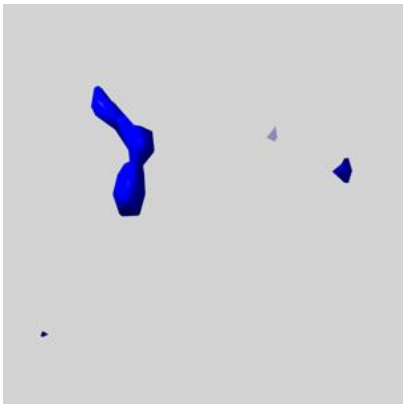
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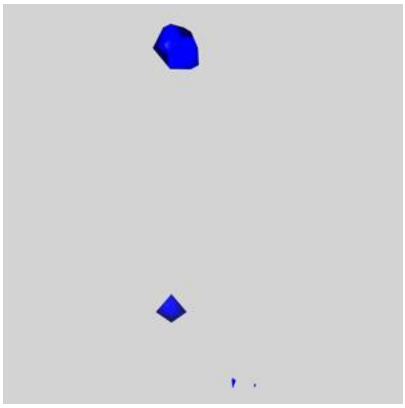
6.5.4 emd_1001_msk_22.map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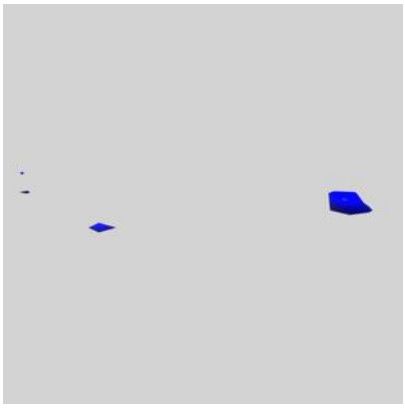
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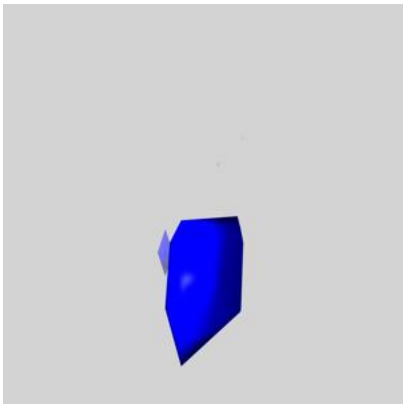
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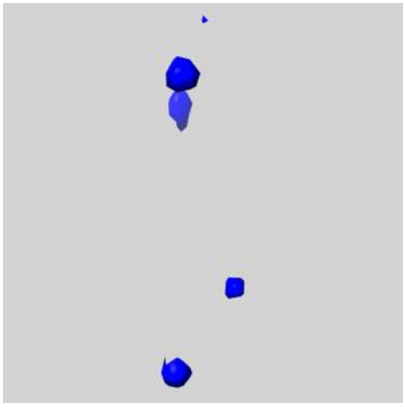
6.5.5 emd_1001_msk_21.map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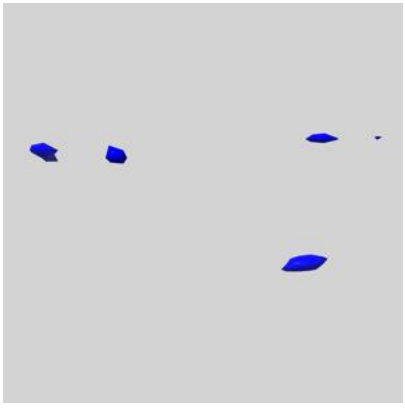
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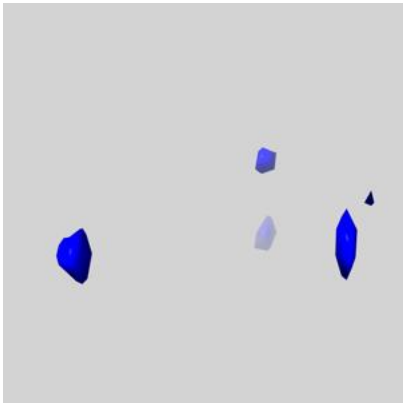
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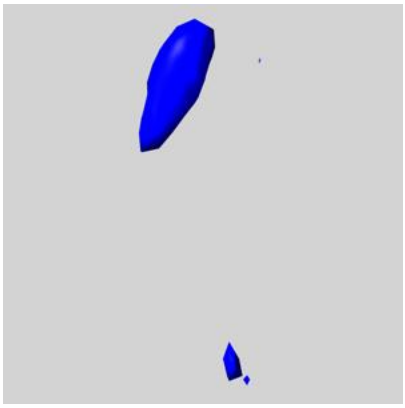
6.5.6 emd_1001_msk_20.map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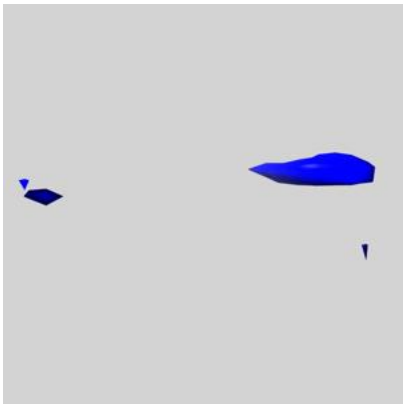
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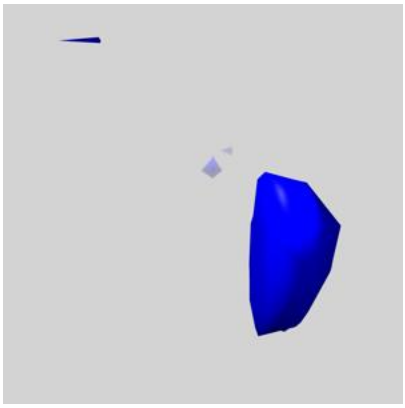
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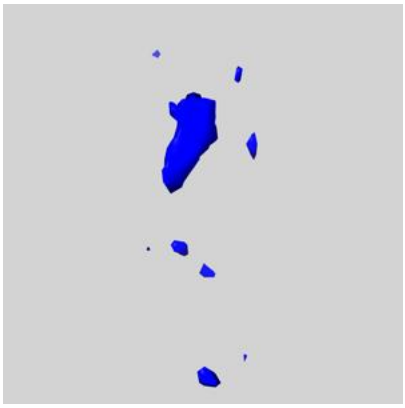
6.5.7 emd_1001_msk_19.map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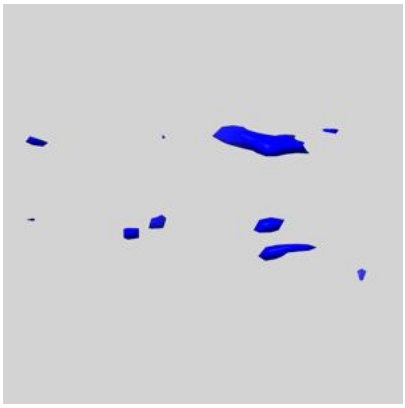
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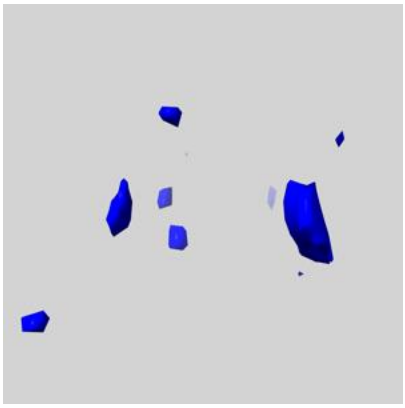
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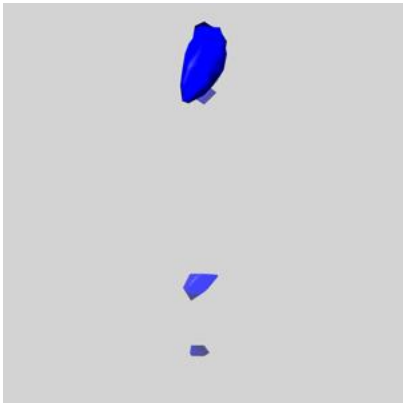
6.5.8 emd_1001_msk_18.map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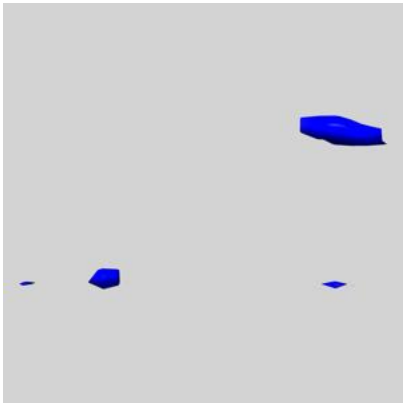
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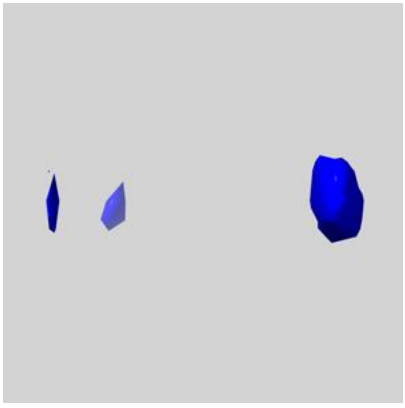
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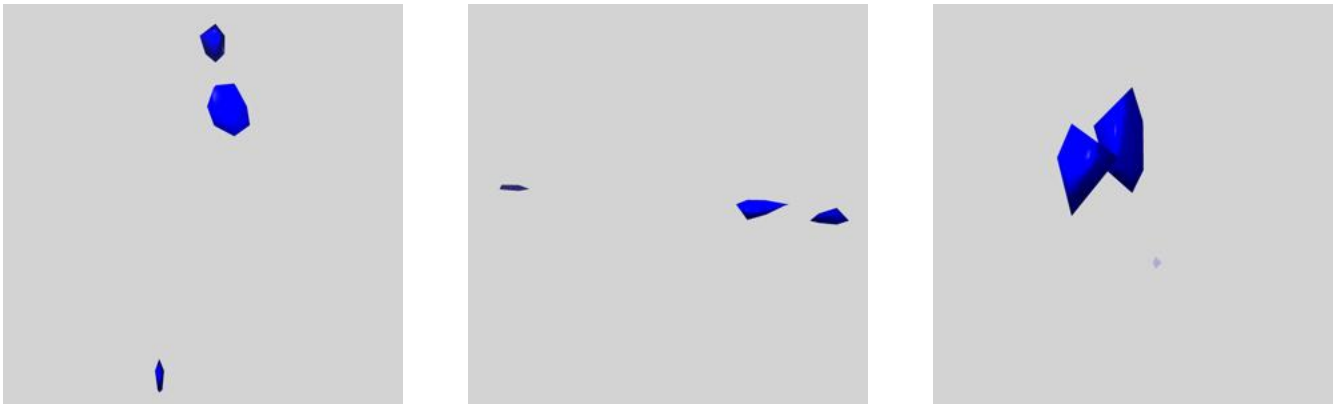
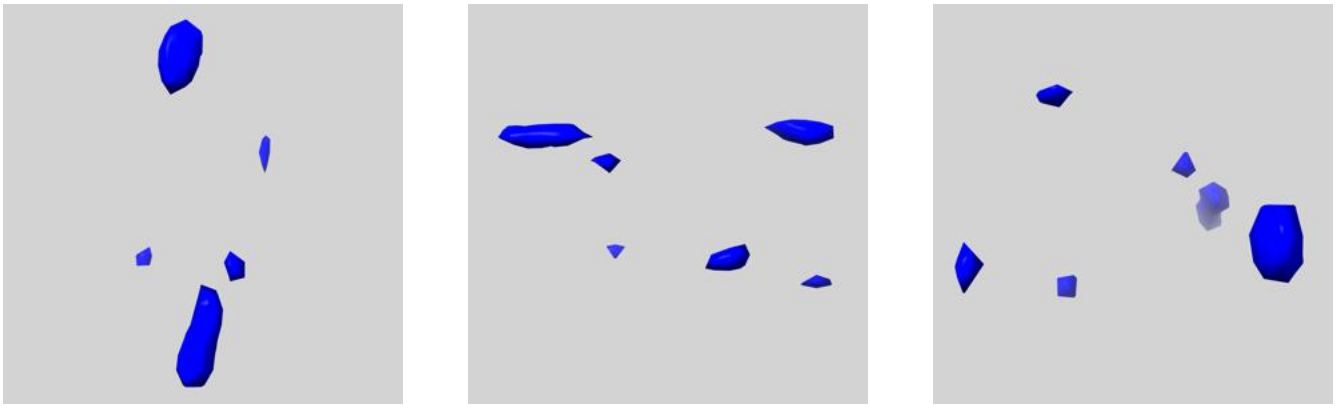
6.5.9 emd_1001_msk_17.map



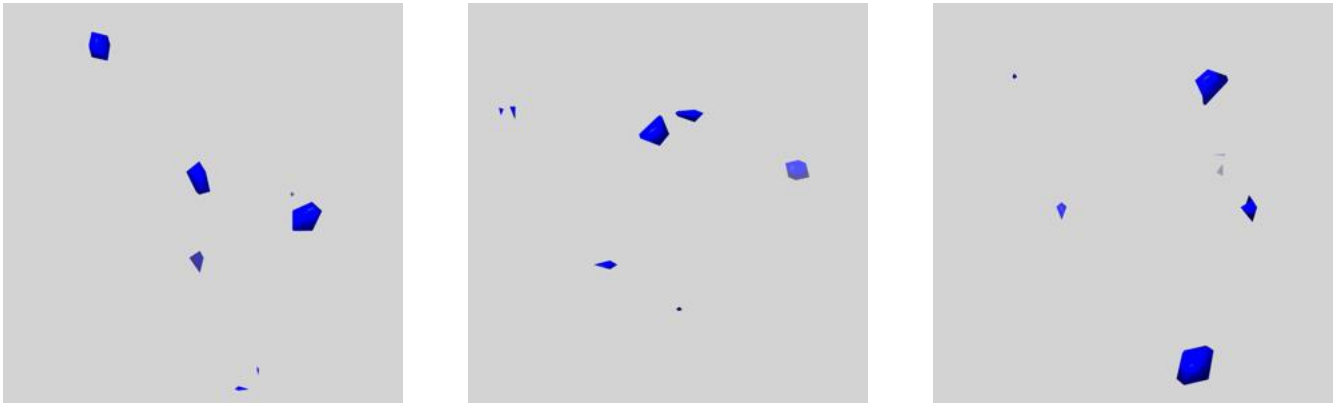
X Y Z

6.5.10 emd_1001_msk_16.map



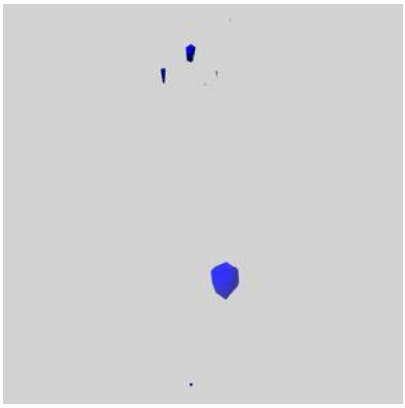
X Y Z

6.5.11 emd_1001_msk_15.map



X Y Z

6.5.12 emd_1001_msk_14.map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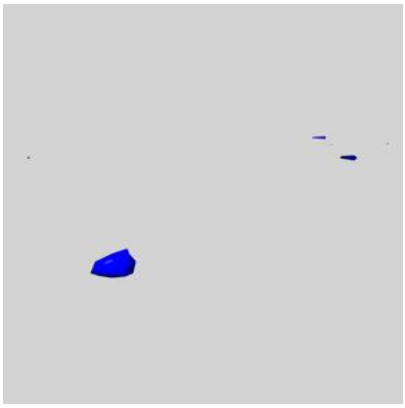
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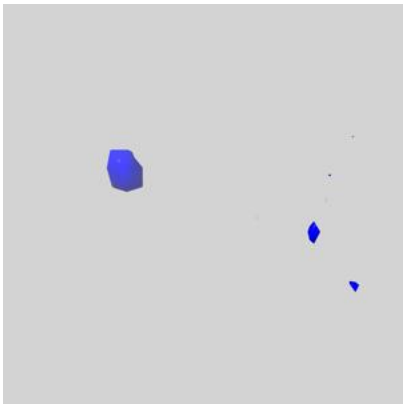
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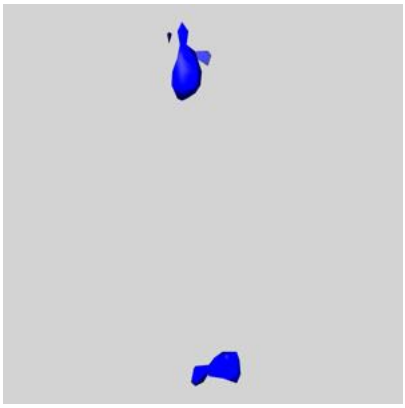
6.5.13 emd_1001_msk_13.map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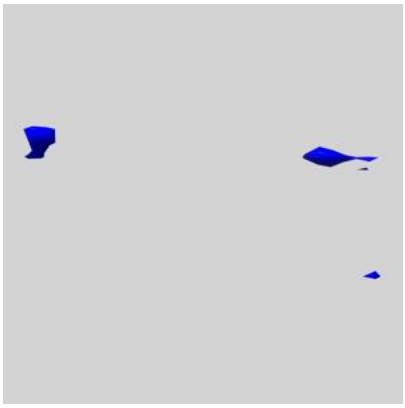
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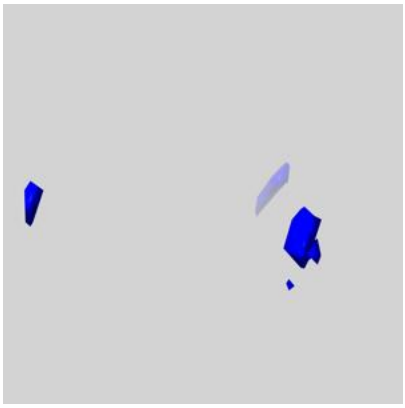
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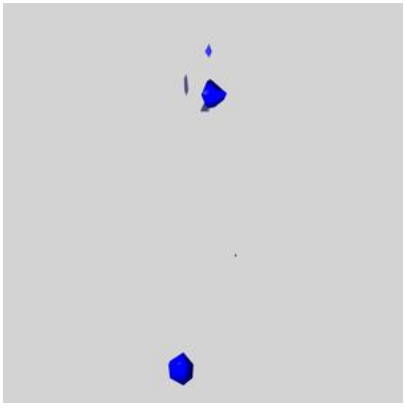
6.5.14 emd_1001_msk_12.map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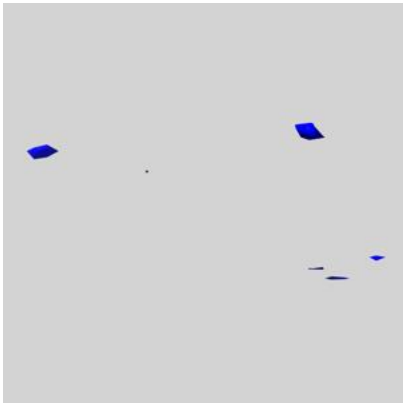
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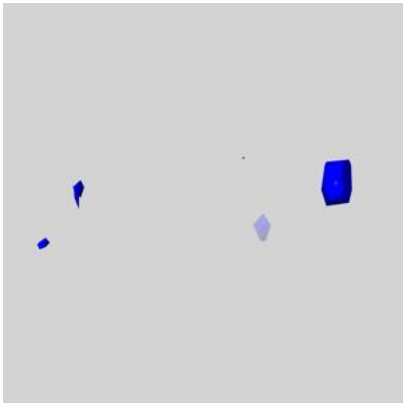
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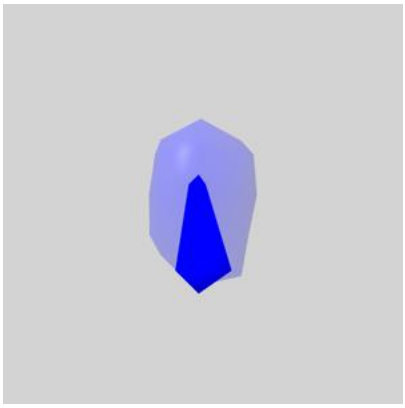
6.5.15 emd_1001_msk_11.map



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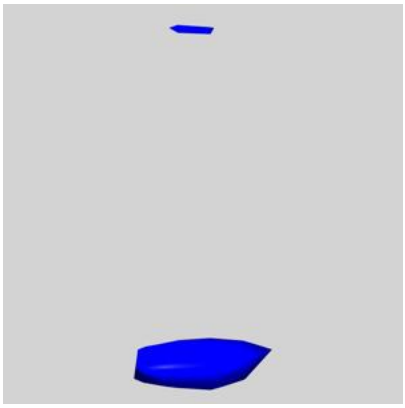

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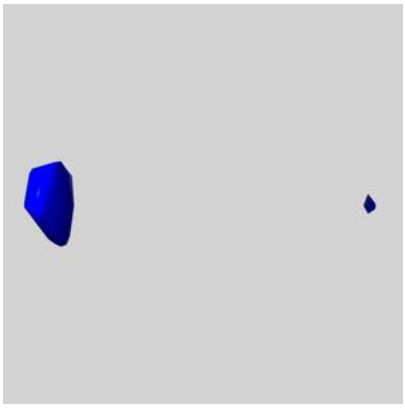
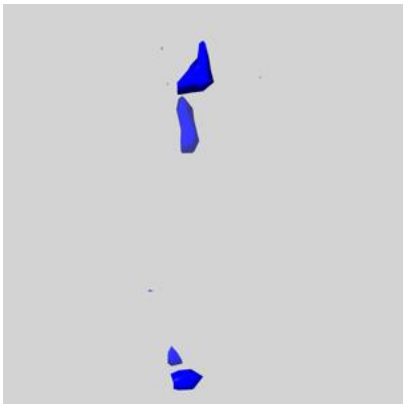
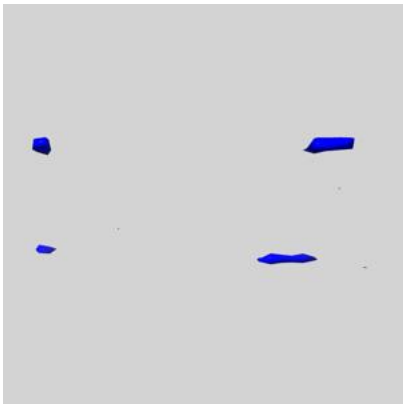


Z

6.5.16 emd_1001_msk_10.map



X



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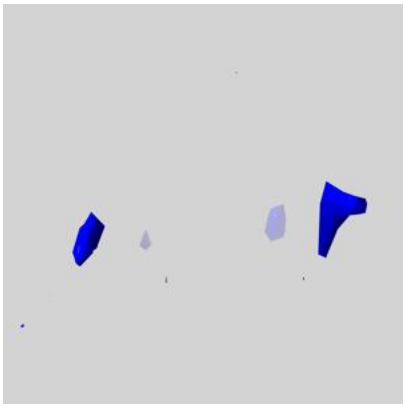
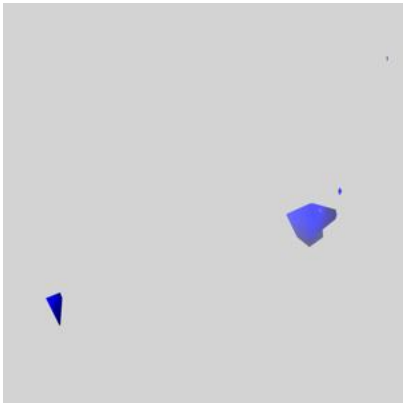


Z

6.5.17 emd_1001_msk_9.map



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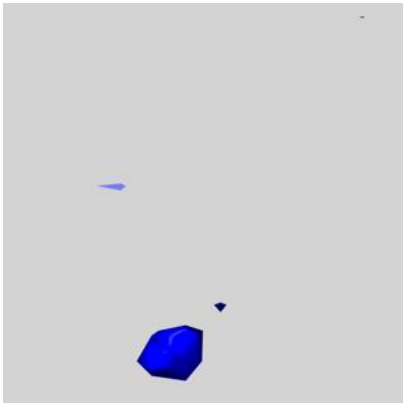

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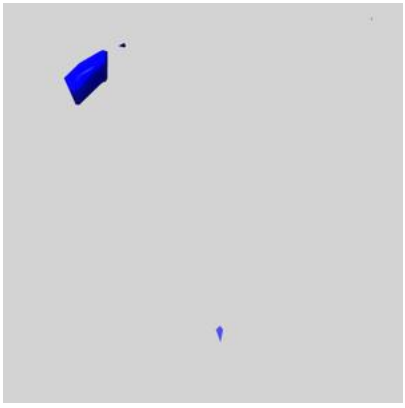
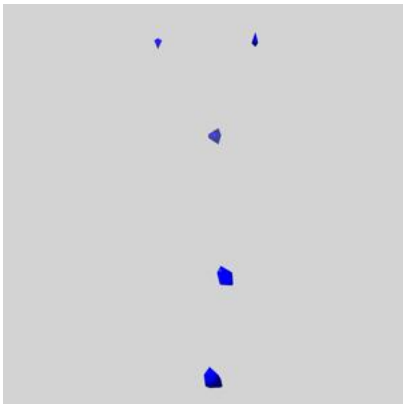


Z

6.5.18 emd_1001_msk_8.map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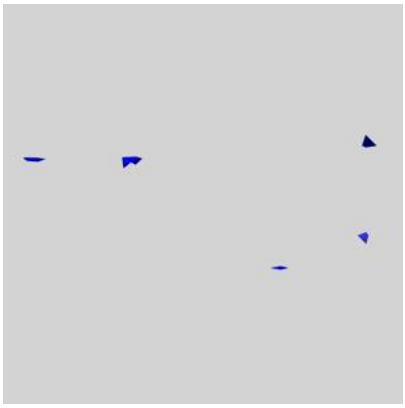
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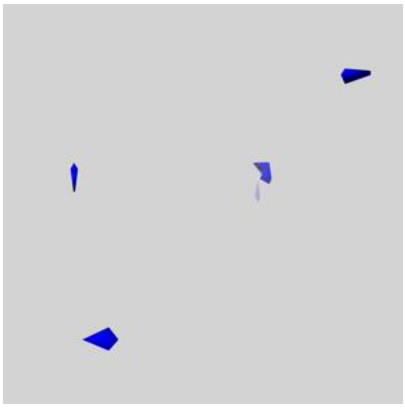
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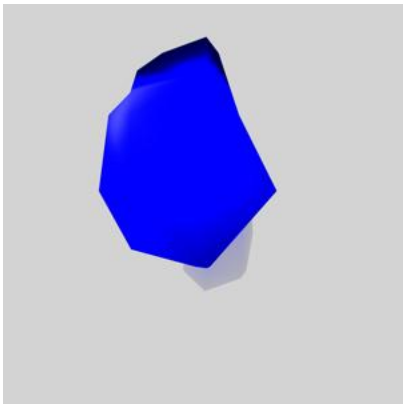
6.5.19 emd_1001_msk_7.map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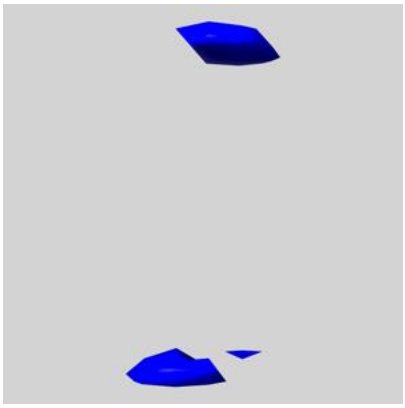
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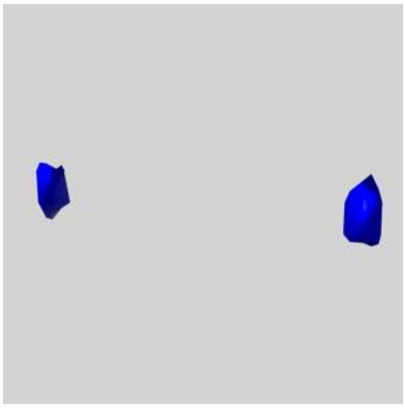
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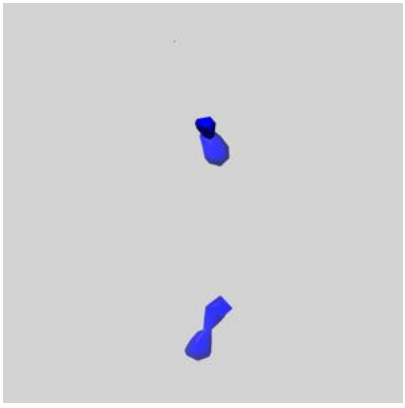
6.5.20 emd_1001_msk_6.map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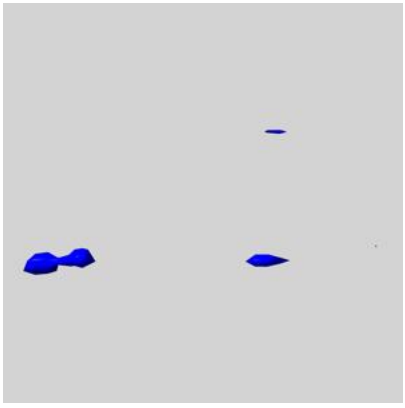
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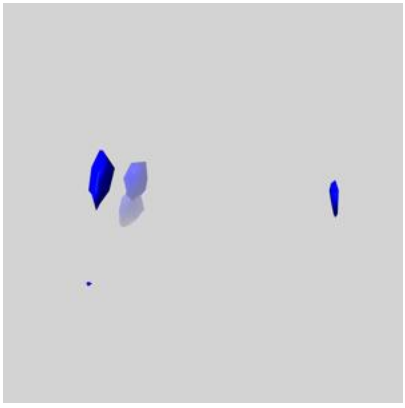
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6.5.21 emd_1001_msk_5.map


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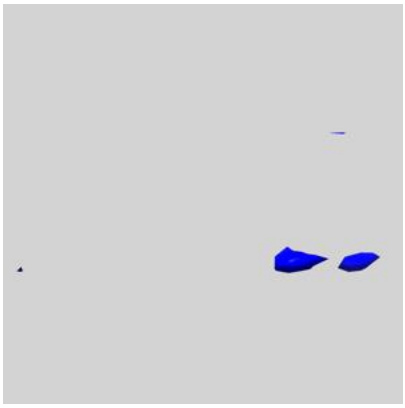
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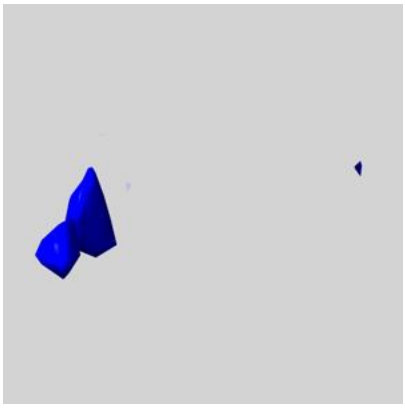
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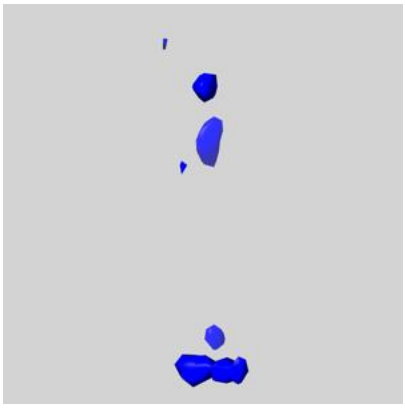
6.5.22 emd_1001_msk_4.map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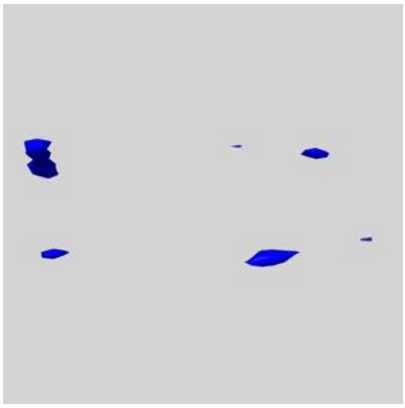
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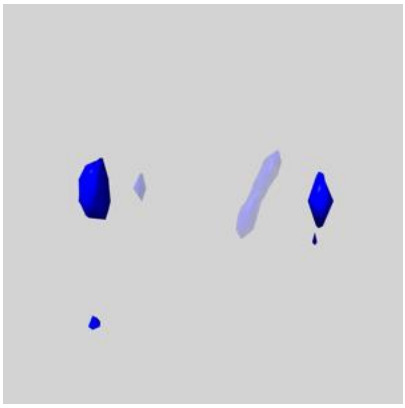
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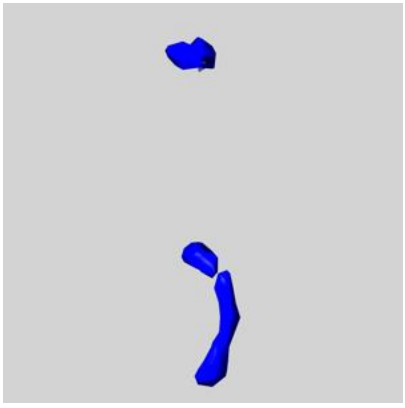
6.5.23 emd_1001_msk_3.map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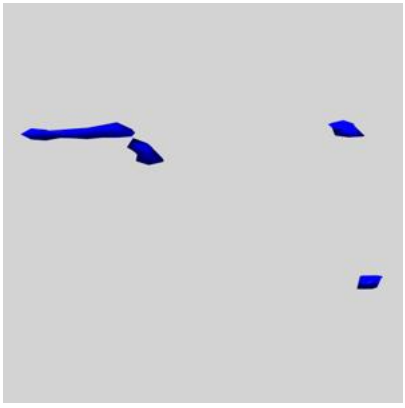
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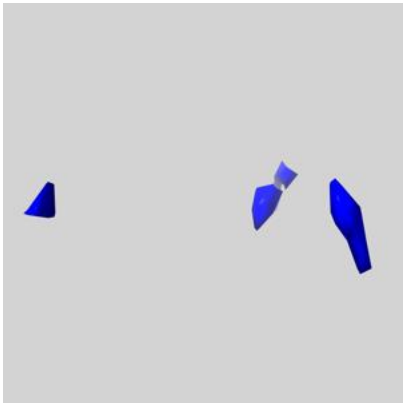
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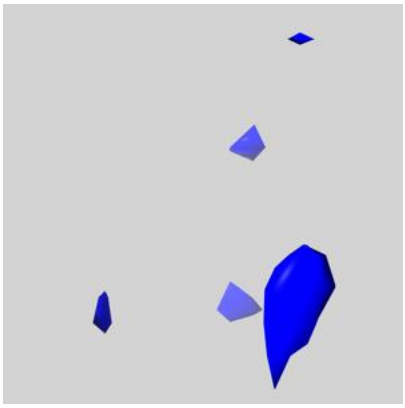
6.5.24 emd_1001_msk_2.map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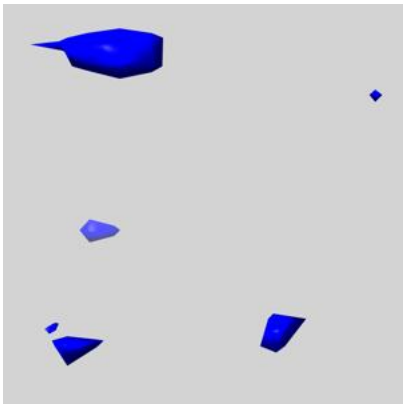
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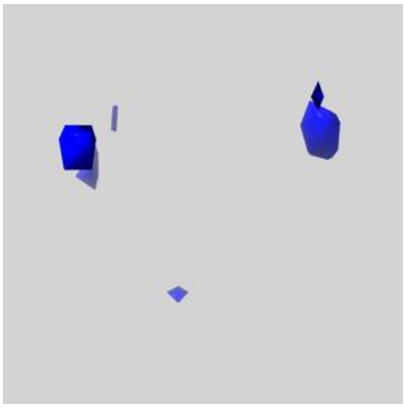
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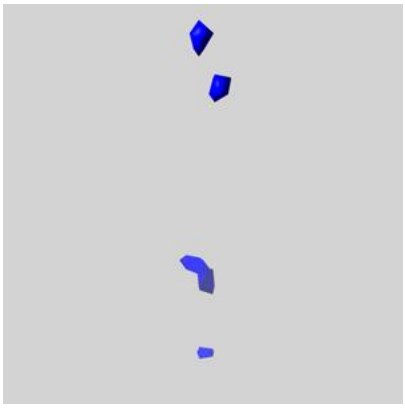
6.5.25 emd_1001_msk_1.map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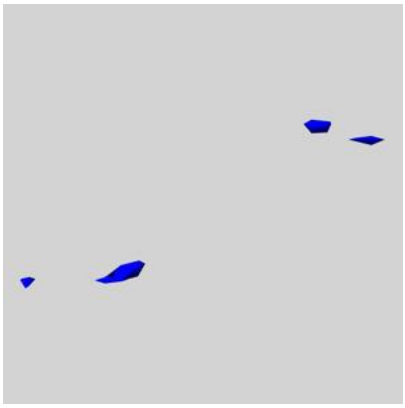
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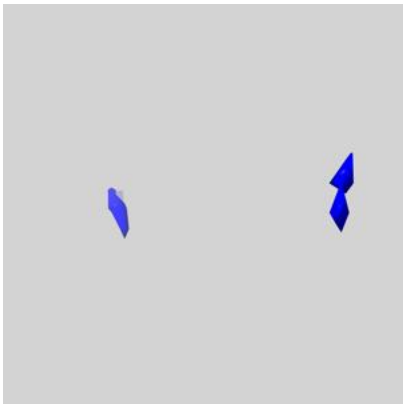
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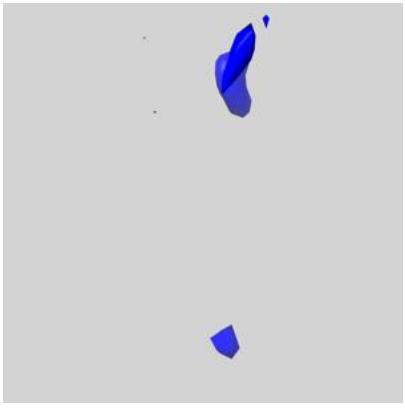
6.5.26 emd_1001_msk_26.map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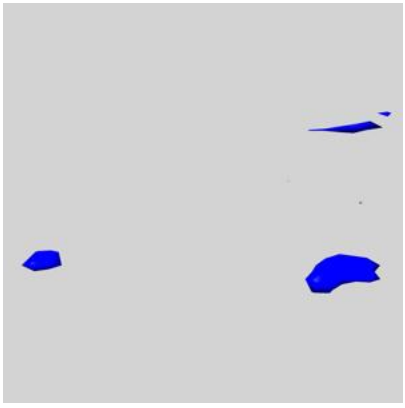
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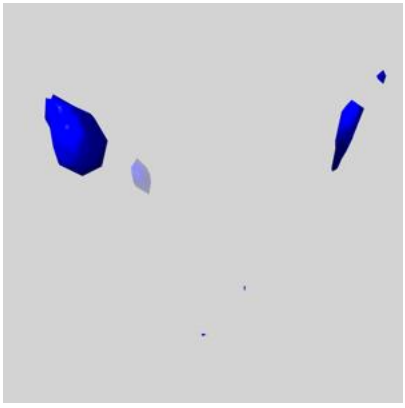
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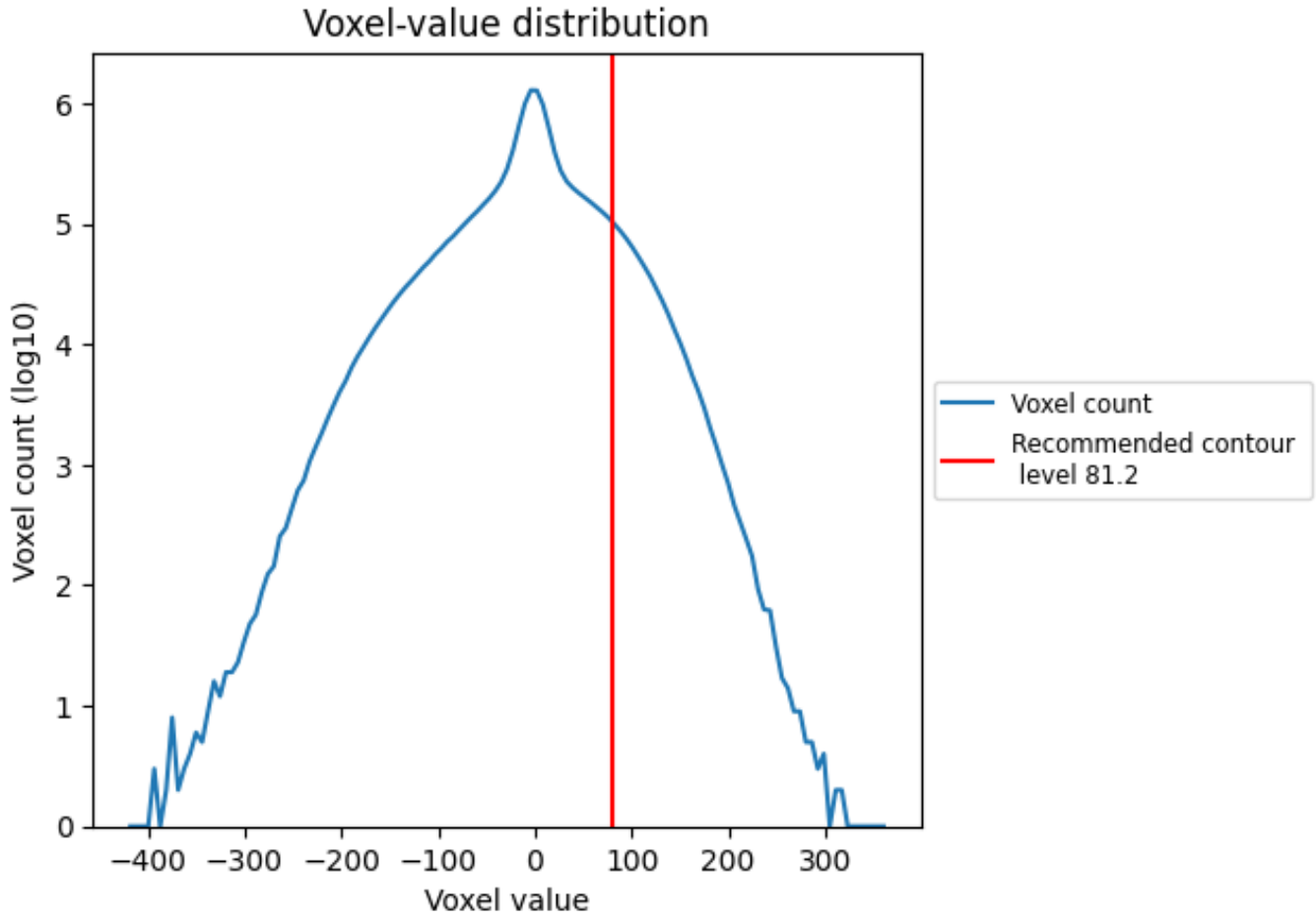
7 Tomogram analysis

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

7.1 Voxel-value distribution



The voxel-value distribution is plotted in 128 intervals along the x-axis. The y-axis is logarithmic.

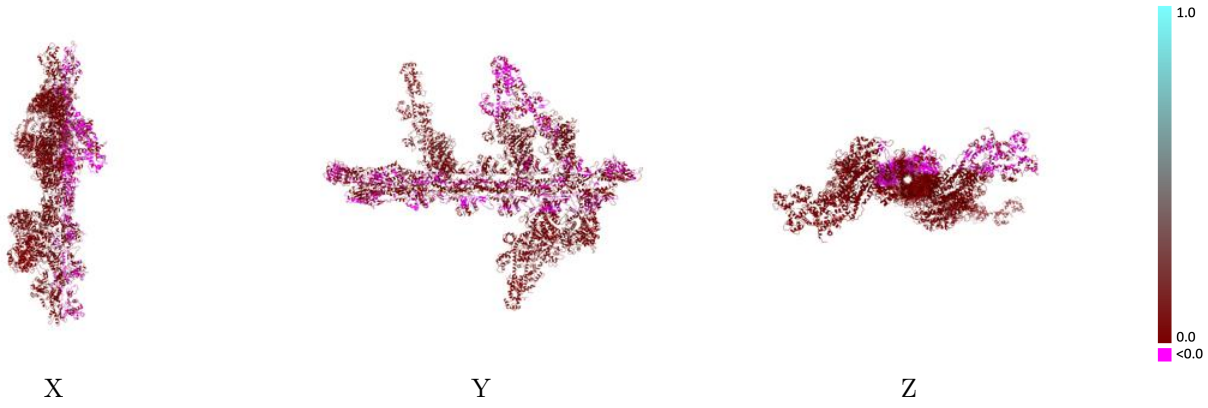
8 Map-model fit

This section contains information regarding the fit between EMDB map EMD-1001 and PDB model 1O1C. Per-residue inclusion information can be found in section 3 on page 7.

8.1 Map-model overlay

This section was not generated.

8.2 Q-score mapped to coordinate model

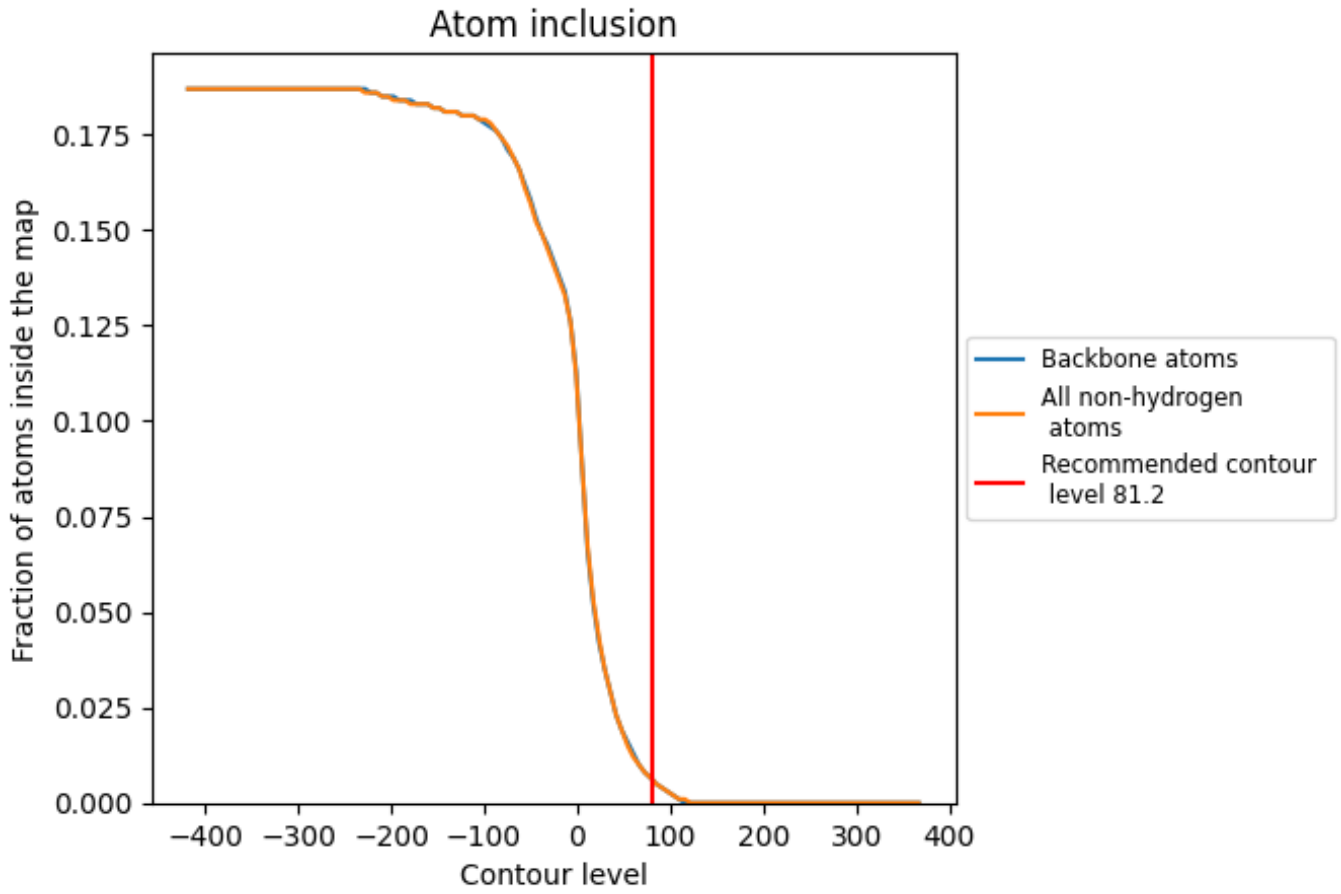


The images above show the model with each residue coloured according its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

8.3 Atom inclusion mapped to coordinate model

This section was not generated.

8.4 Atom inclusion (i)



At the recommended contour level, 1% of all backbone atoms, 1% of all non-hydrogen atoms, are inside the map.

8.5 Map-model fit summary

The table lists the average atom inclusion at the recommended contour level (81.2) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.0060	-0.0010
0	0.0000	0.0000
1	0.0150	0.0150
2	0.0000	-0.0040
3	0.0000	-0.0050
4	0.0000	-0.0020
5	0.0000	0.0040
7	0.0000	-0.0010
8	0.0000	-0.0020
9	0.0000	-0.0080
A	0.0000	-0.0020
B	0.0000	0.0000
C	0.0000	0.0000
D	0.0000	0.0070
E	0.0000	-0.0160
F	0.1520	0.0100
G	0.0000	-0.0010
H	0.0000	0.0000
I	0.0000	0.0000
J	0.0000	-0.0020
K	0.0330	0.0010
L	0.0000	-0.0230
P	0.0000	0.0000
Q	0.0000	0.0000
R	0.0000	0.0000
V	0.0000	-0.0190
W	0.0000	-0.0020
X	0.0690	-0.0010
Y	0.0000	0.0000
Z	0.0070	0.0030