Full wwPDB EM Validation Report

Mar 2, 2024 – 08:06 PM EST

PDB ID	:	5TX1
EMDB ID	:	EMD-8471
Title	:	Cryo-Electron microscopy structure of species-D human adenovirus 26
Authors	:	Reddy, V.; Yu, X.; Veesler, D.
Deposited on	:	2016-11-15
Resolution	:	3.70 Å(reported)

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

We welcome your comments at *validation@mail.wwpdb.org*
A user guide is available at
https://www.wwpdb.org/validation/2017/EMValidationReportHelp
with specific help available everywhere you see the (i) 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 (i)) were used in the production of this report:

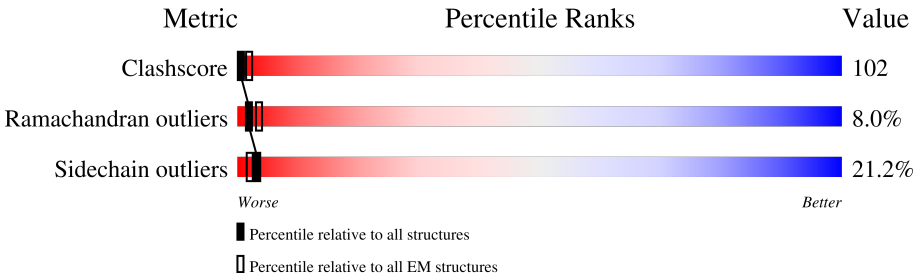
EMDB validation analysis	:	0.0.1.dev70
MolProbity	:	4.02b-467
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.36

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 3.70 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	952	23% 58% 16%
1	B	952	5% 19% 58% 20%
1	C	952	18% 57% 21%
1	D	952	24% 57% 18%
1	E	952	20% 56% 21%
1	F	952	5% 16% 54% 25%
1	G	952	21% 54% 23%
1	H	952	5% 17% 54% 25%

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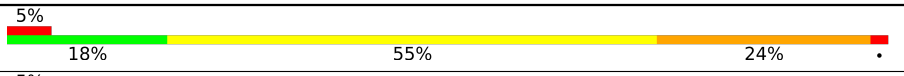
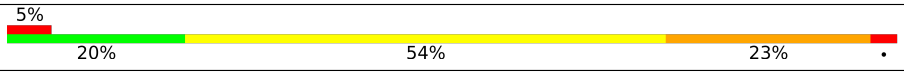
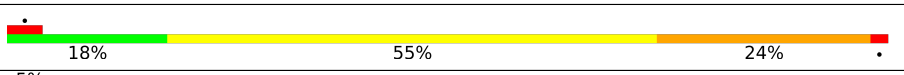
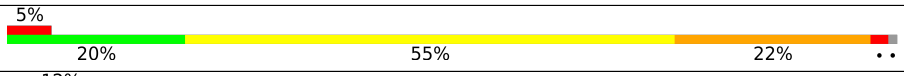
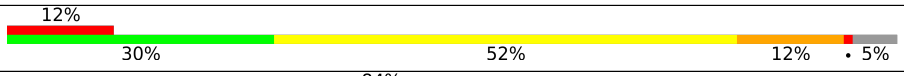
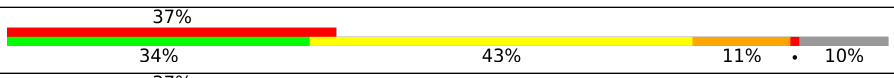
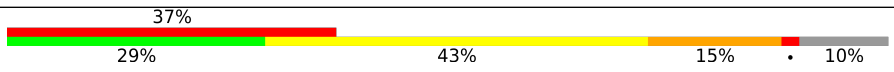
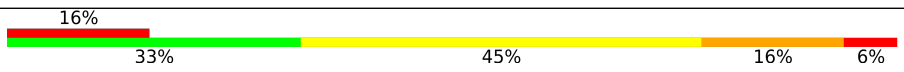
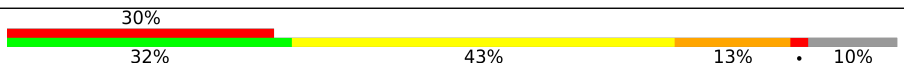
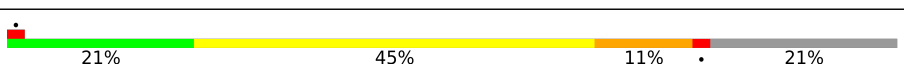
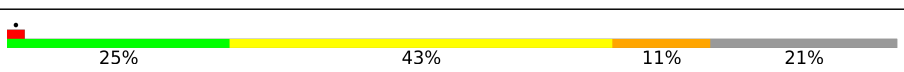
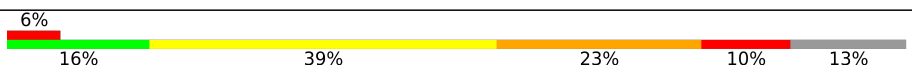
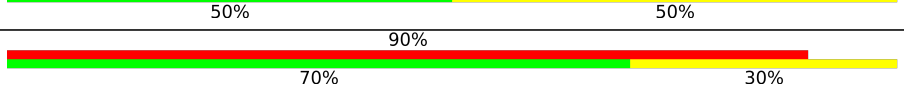
Mol	Chain	Length	Quality of chain
1	I	952	
1	J	952	
1	K	952	
1	L	952	
2	N	497	
3	O	19	
4	M	388	
5	P	134	
5	Q	134	
5	R	134	
5	S	134	
6	U	227	
6	V	227	
7	1	31	
7	2	31	
7	3	31	
7	4	31	
7	5	31	
7	6	31	
7	7	31	
7	8	31	
7	9	31	
8	X	10	
8	Y	10	
8	Z	10	

2 Entry composition

There are 8 unique types of molecules in this entry. The entry contains 105738 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 Hexon protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	951	Total	C	N	O	S	0	0
			7551	4796	1276	1444	35		
1	B	949	Total	C	N	O	S	0	0
			7536	4787	1274	1441	34		
1	C	946	Total	C	N	O	S	0	0
			7519	4777	1271	1437	34		
1	D	947	Total	C	N	O	S	0	0
			7526	4780	1272	1440	34		
1	E	947	Total	C	N	O	S	0	0
			7526	4780	1272	1440	34		
1	F	950	Total	C	N	O	S	0	0
			7544	4792	1275	1442	35		
1	G	947	Total	C	N	O	S	0	0
			7526	4780	1272	1440	34		
1	H	947	Total	C	N	O	S	0	0
			7526	4780	1272	1440	34		
1	I	949	Total	C	N	O	S	0	0
			7536	4787	1274	1441	34		
1	J	951	Total	C	N	O	S	0	0
			7551	4795	1276	1446	34		
1	K	951	Total	C	N	O	S	0	0
			7551	4795	1276	1446	34		
1	L	947	Total	C	N	O	S	0	0
			7524	4780	1272	1438	34		

- Molecule 2 is a protein called Penton.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	N	473	Total	C	N	O	S	0	0
			3803	2416	643	730	14		

- Molecule 3 is a protein called Fiber.

Mol	Chain	Residues	Atoms				AltConf	Trace
3	O	19	Total	C	N	O	0	0
			162	105	27	30		

- Molecule 4 is a protein called PIIIa.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	M	376	Total	C	N	O	S	0	0
			2938	1832	530	567	9		

- Molecule 5 is a protein called PIX.

Mol	Chain	Residues	Atoms					AltConf	Trace
5	P	120	Total	C	N	O	S	0	0
			871	535	155	177	4		
5	Q	120	Total	C	N	O	S	0	0
			875	538	155	178	4		
5	R	134	Total	C	N	O	S	0	0
			965	592	169	199	5		
5	S	121	Total	C	N	O	S	0	0
			881	542	156	180	3		

- Molecule 6 is a protein called PVIII.

Mol	Chain	Residues	Atoms					AltConf	Trace
6	U	180	Total	C	N	O	S	0	0
			1391	876	239	270	6		
6	V	180	Total	C	N	O	S	0	0
			1391	876	239	270	6		

- Molecule 7 is a protein called PVI.

Mol	Chain	Residues	Atoms					AltConf	Trace
7	1	31	Total	C	N	O	S	0	0
			236	146	44	45	1		
7	2	27	Total	C	N	O	S	0	0
			211	132	39	39	1		
7	3	26	Total	C	N	O	S	0	0
			202	127	37	37	1		
7	4	27	Total	C	N	O	S	0	0
			211	132	39	39	1		
7	5	26	Total	C	N	O	S	0	0
			202	127	37	37	1		

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	6	27	Total	C	N	O	S	0	0
			211	132	39	39	1		
7	7	26	Total	C	N	O	S	0	0
			202	127	37	37	1		
7	8	31	Total	C	N	O	S	0	0
			236	146	44	45	1		
7	9	26	Total	C	N	O	S	0	0
			202	127	37	37	1		

- Molecule 8 is a protein called Unknown.

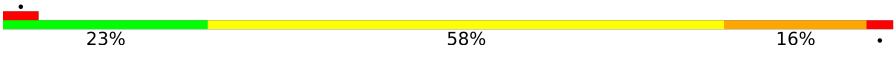
Mol	Chain	Residues	Atoms				AltConf	Trace
8	X	10	Total	C	N	O	0	0
			51	30	10	11		
8	Y	10	Total	C	N	O	0	0
			51	30	10	11		
8	Z	6	Total	C	N	O	0	0
			30	18	6	6		

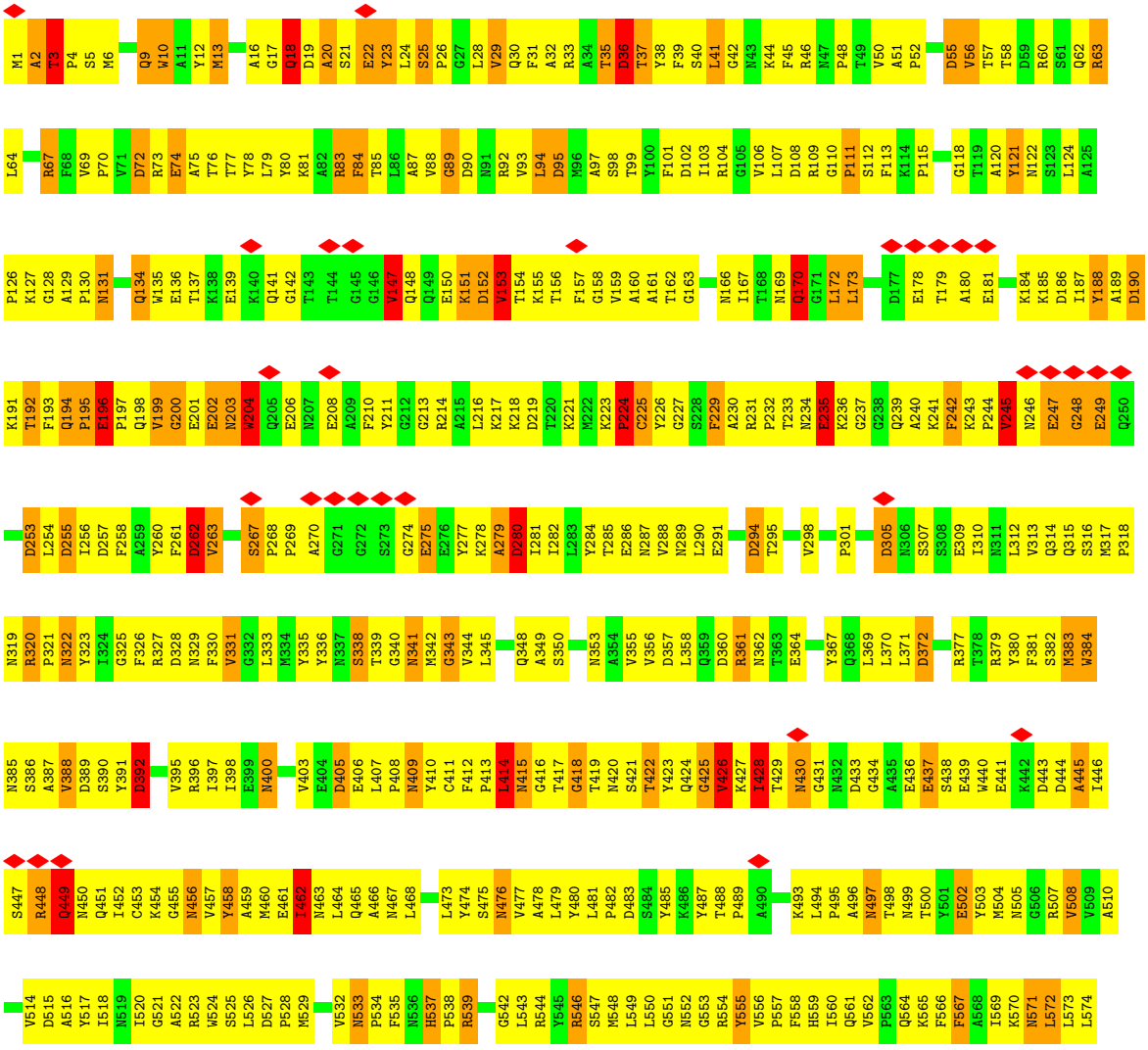
3 Residue-property plots (i)

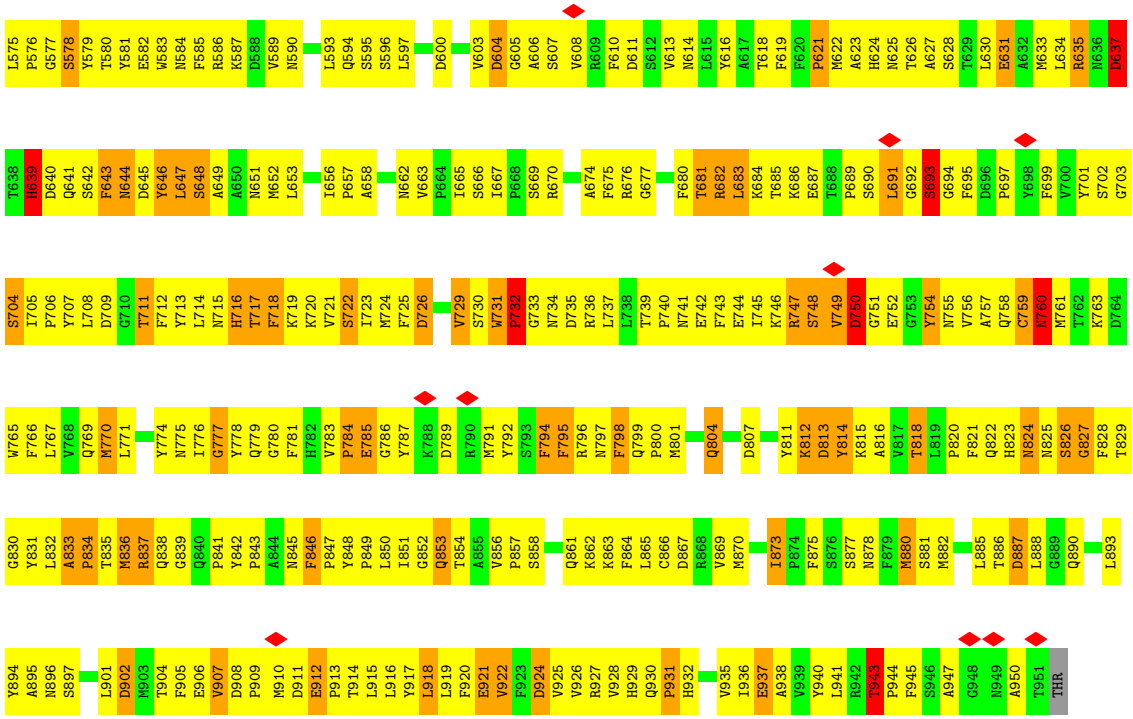
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion 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: Hexon protein

Chain A:

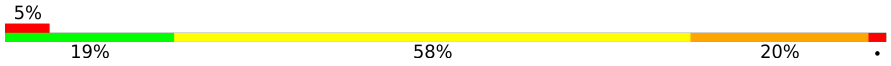


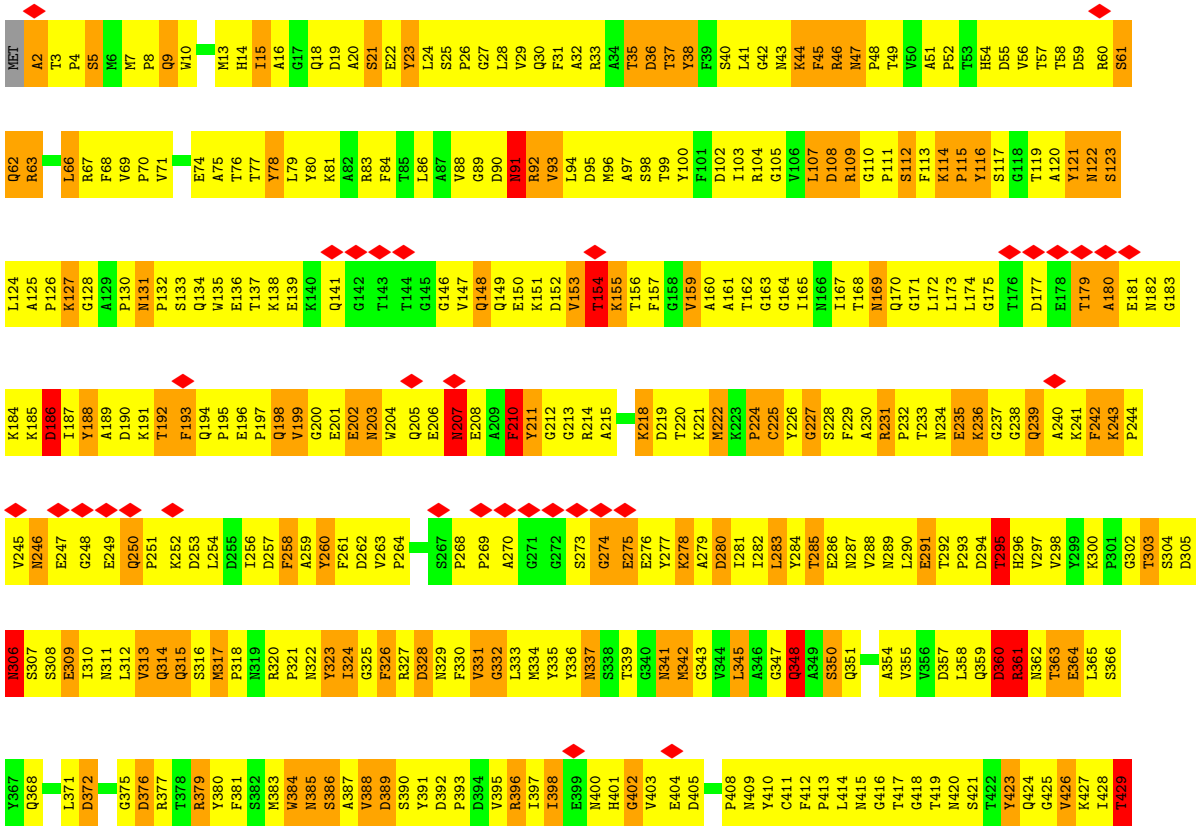


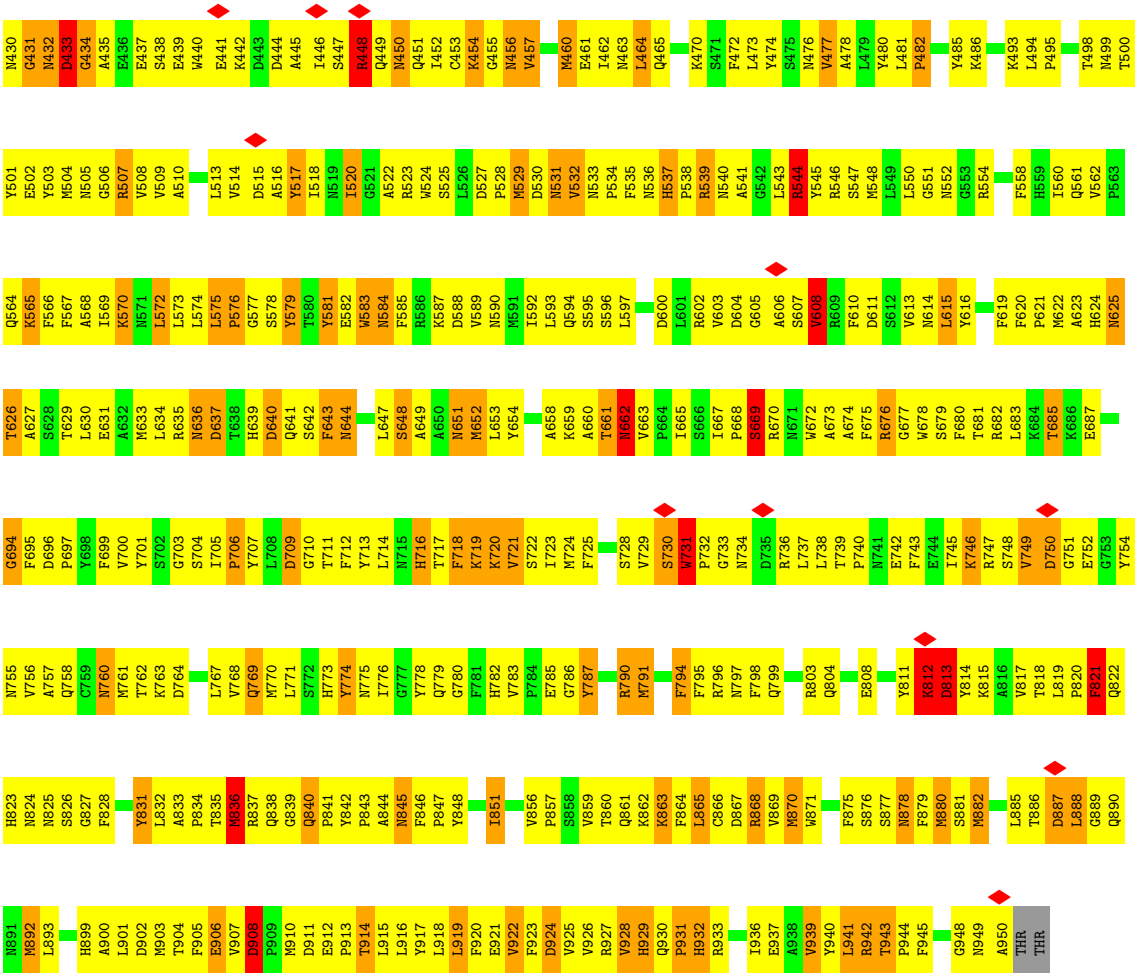


• Molecule 1: Hexon protein

Chain B:

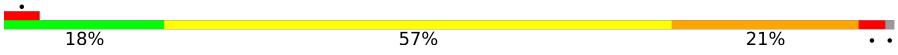


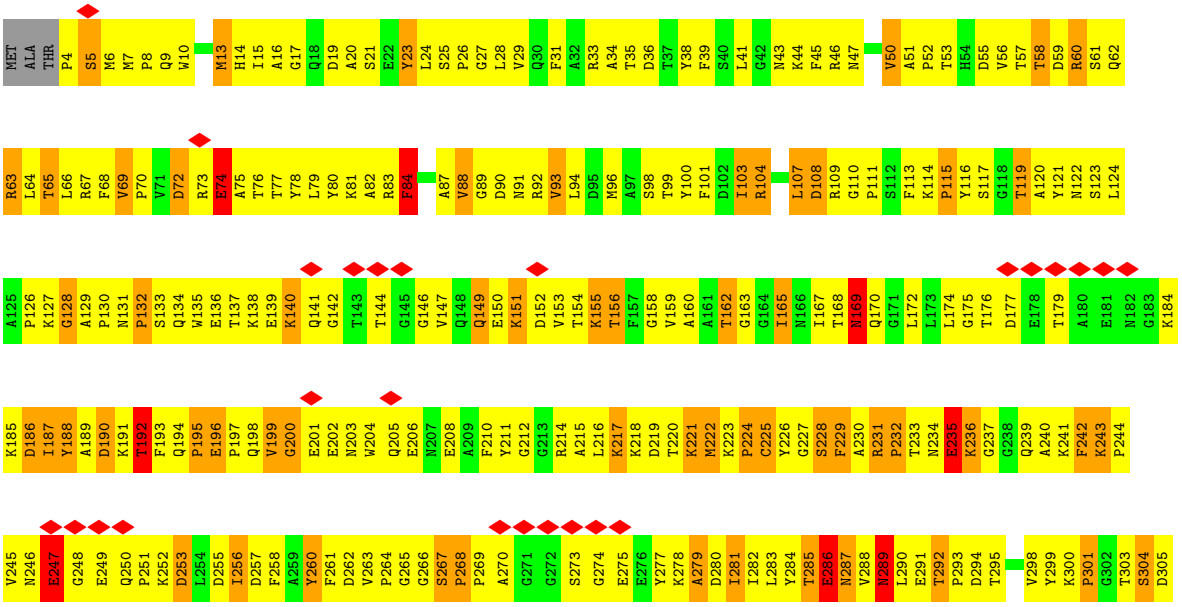


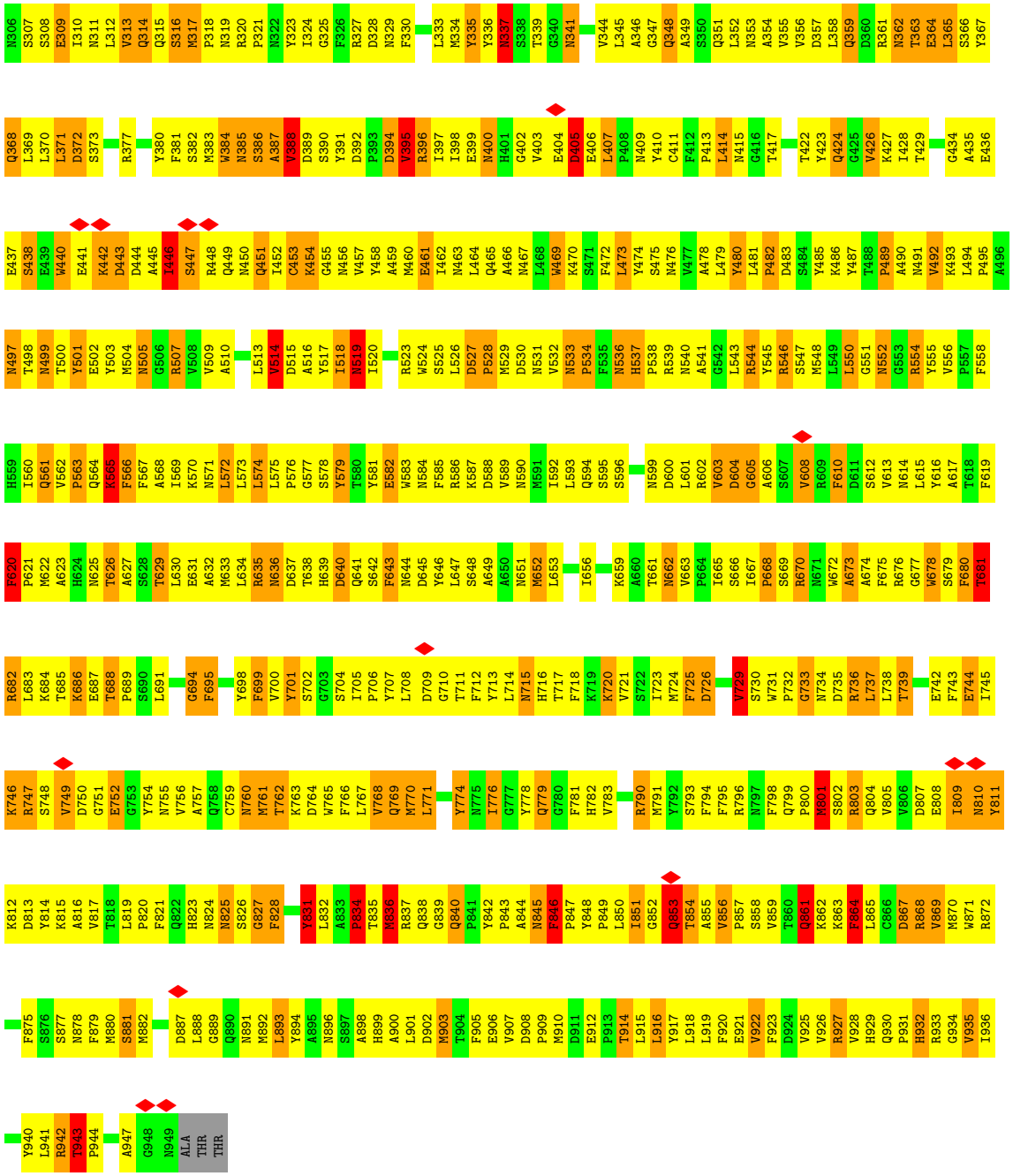


• Molecule 1: Hexon protein

Chain C:

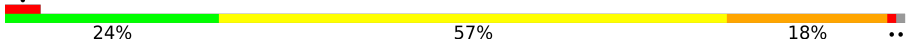


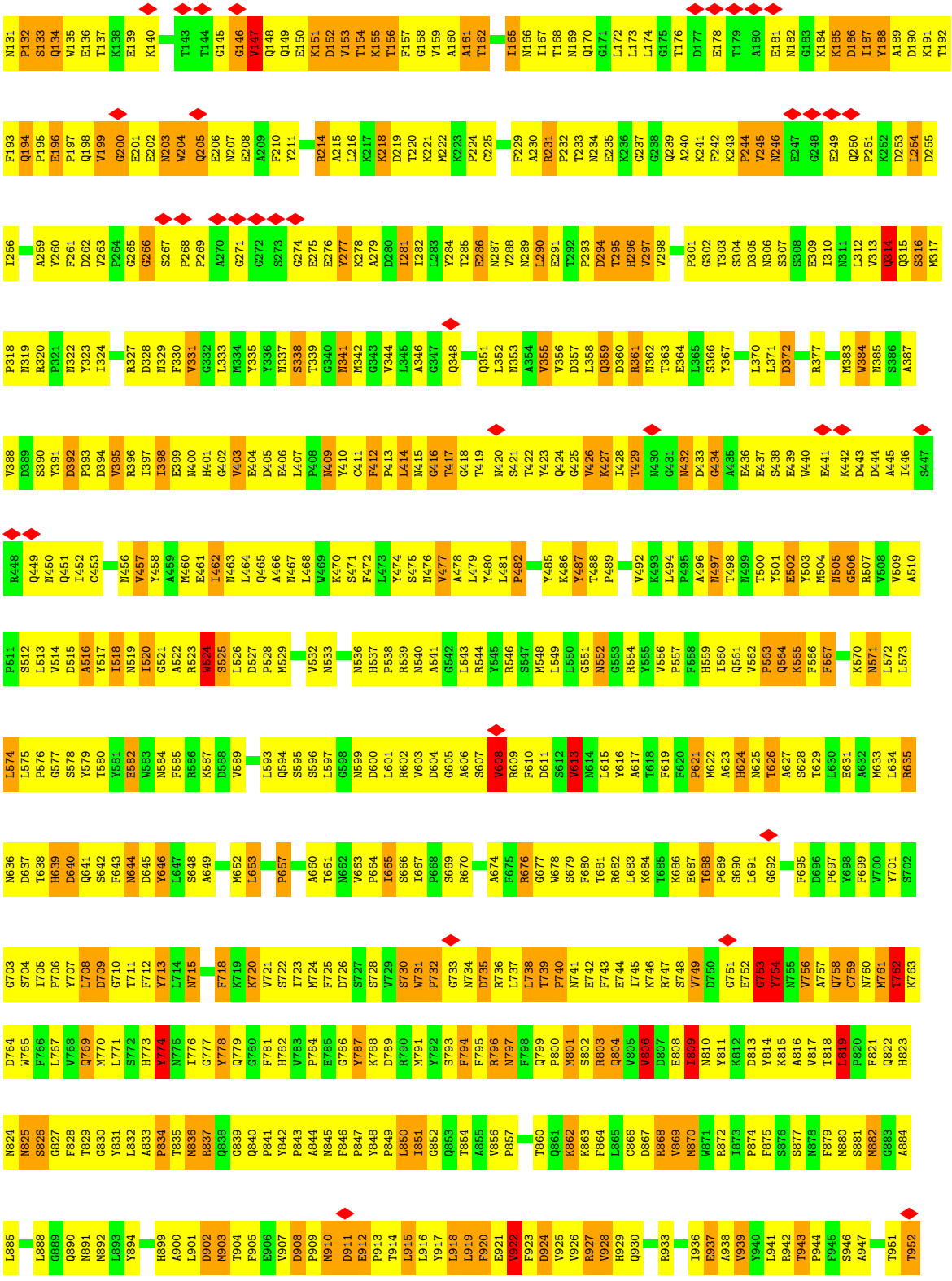




• Molecule 1: Hexon protein

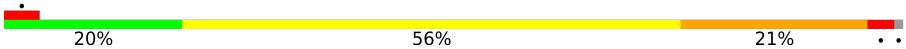
Chain D:

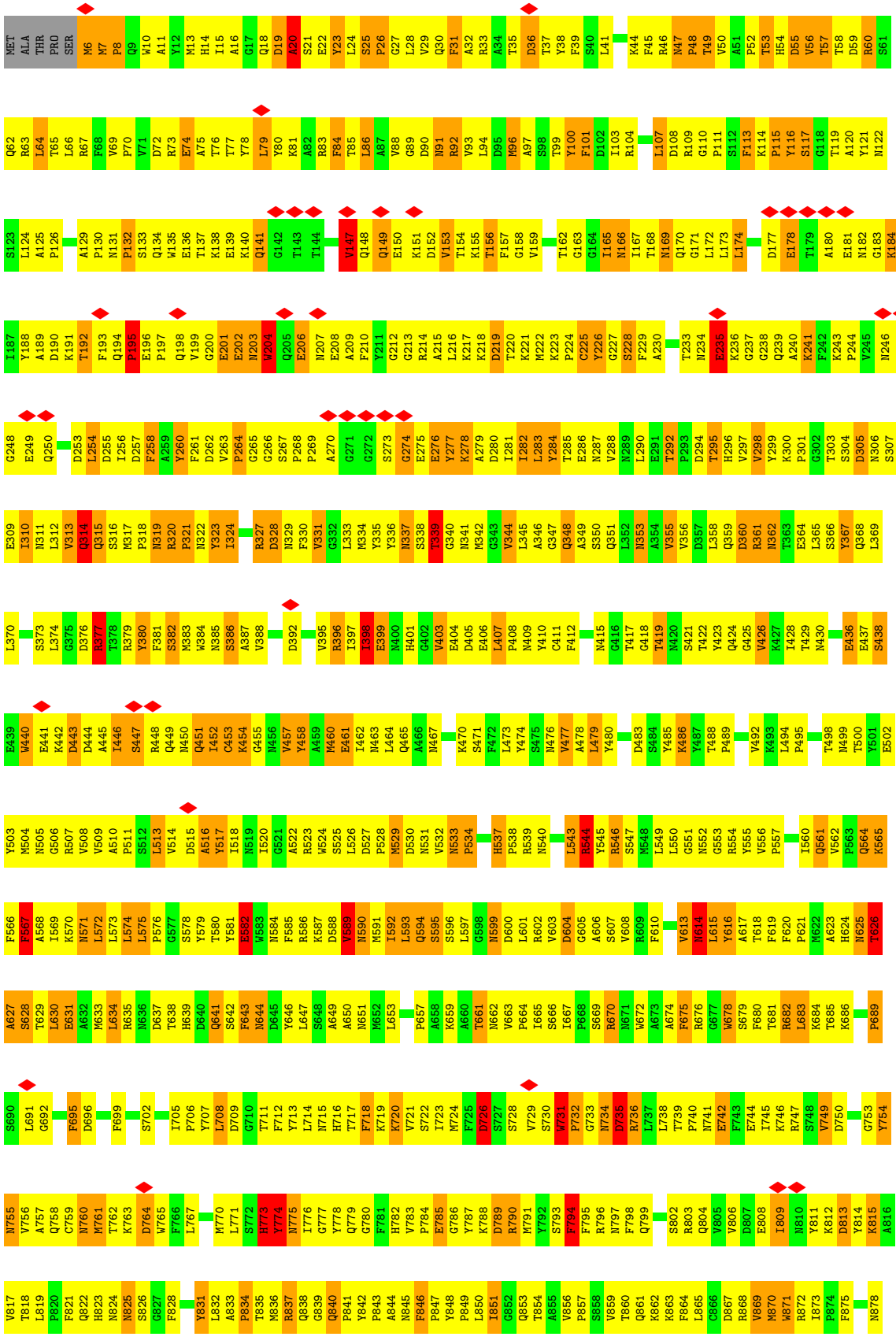




• Molecule 1: Hexon protein

Chain E:




MET ALA THR PRO SER M6 M7 P8 Q9 W10 A11 Y12 M13 H14 I15 A16 G17 Q18 D19 A20 S21 E22 Y23 L24 S25 P26 G27 L28 V29 Q30 F31 A32 R33 A34 T35 D36 T37 Y38 F39 S40 L41 K44 F45 R46 M47 P48 T49 V50 A51 P52 T53 H54 D55 V56 T57 T58 D59 R60 S61
Q62 R63 L64 T65 L66 R67 F68 V69 P70 V71 D72 R73 E74 A75 T76 T77 Y78 L79 Y80 K81 A82 R83 F84 T85 L86 A87 V88 G89 D90 N91 R92 V93 L94 D95 M96 A97 S98 T99 Y100 F101 D102 I103 R104 L107 D108 R109 G110 P111 S112 F113 K114 P115 Y116 S117 G118 T119 A120 Y121 N122
S123 L124 A125 P126 A129 P130 N131 P132 S133 Q134 W135 E136 T137 K138 E139 K140 Q141 G142 T143 T144 V147 Q148 Q149 E150 K151 D152 V153 T154 K155 T156 F157 G158 V159 T162 G163 G164 I165 N166 I167 T168 N169 Q170 G171 L172 L173 L174 D177 E178 T179 A180 E181 N182 G183 K184 K185 D186
I187 Y188 A189 D190 K191 T192 F193 Q194 P195 E196 P197 Q198 V199 G200 E201 E202 N203 W204 Q205 E206 N207 E208 A209 F210 Y211 G212 G213 R214 A215 L216 K217 K218 D219 T220 K221 M222 K223 P224 C225 Y226 G227 S228 F229 A230 T233 N234 E235 K236 G237 G238 Q239 A240 K241 F242 K243 P244 V245 N246 E247
G248 E249 Q250 D253 L254 D255 I256 D257 F258 A259 Y260 F261 D262 V263 P264 G265 G266 S267 P268 P269 A270 G271 G272 S273 G274 E275 E276 Y277 K278 A279 D280 I281 I282 L283 Y284 T285 E286 N287 V288 N289 L290 E291 T292 P293 D294 T295 H296 V297 V298 Y299 K300 P301 G302 T303 S304 D305 N306 S307 S308
E309 I310 N311 L312 V313 Q314 Q315 S316 M317 P318 N319 R320 P321 N322 Y323 I324 R327 D328 N329 F330 V331 G332 L333 M334 Y335 Y336 N337 S338 T339 G340 N341 M342 G343 V344 L345 A346 G347 Q348 A349 S350 Q351 L352 N353 A354 V355 V356 D357 L358 Q359 D360 R361 N362 T363 E364 L365 S366 Y367 Q368 L369
L370 S373 L374 G375 D376 R377 T378 R379 Y380 F381 S382 M383 W384 N385 S386 A387 V388 D392 V395 R396 I397 I398 E399 N400 H401 G402 V403 E404 D405 E406 L407 P408 N409 Y410 C411 F412 N415 G416 T417 G418 T419 N420 S421 T422 Y423 Q424 G425 V426 K427 I428 T429 N430 E436 E437 S438
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Y503 M504 N505 G506 R507 V508 V509 A510 P511 S512 L513 V514 D515 A516 Y517 I518 N519 I520 G521 A522 R523 W524 S525 L526 D527 P528 M529 D530 N531 V532 N533 P534 H537 P538 R539 N540 L543 R544 Y545 R546 S547 N548 L549 L550 G551 N552 G553 R554 Y555 V556 P557 I560 Q561 V562 P563 Q564 K565
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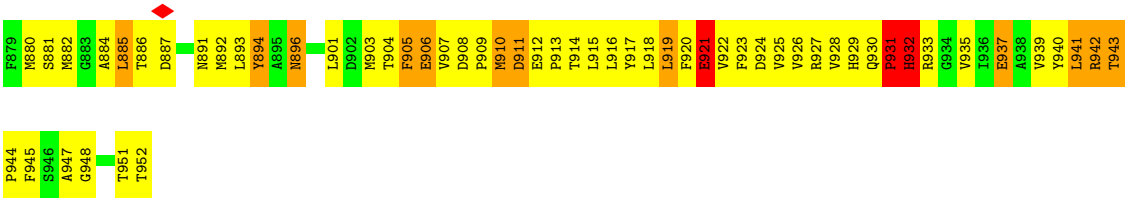
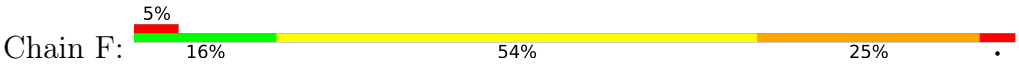
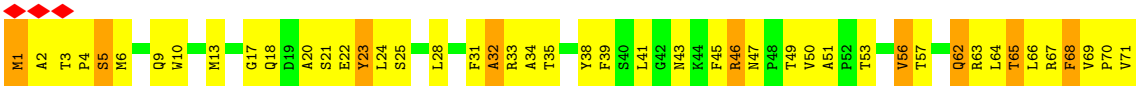
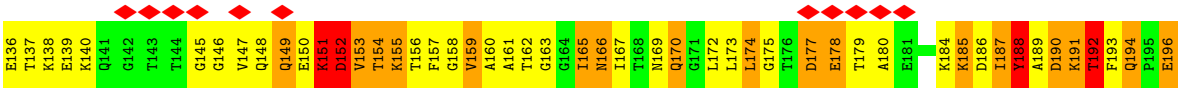
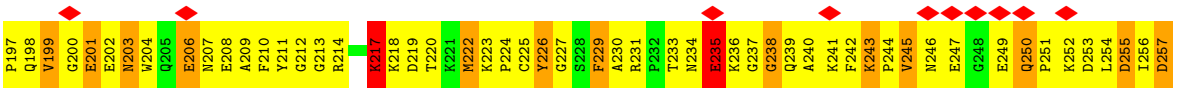


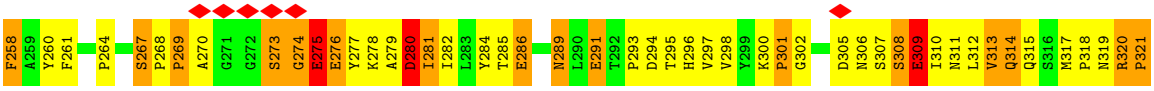
• Molecule 1: Hexon protein

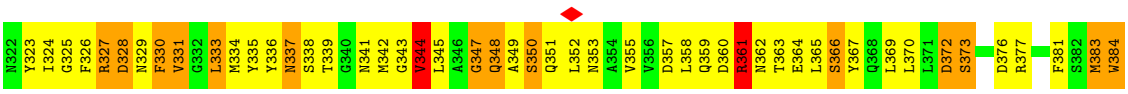


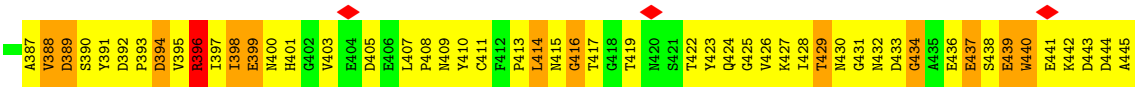


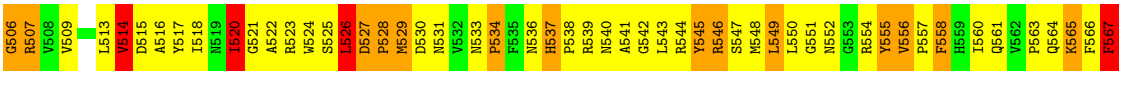


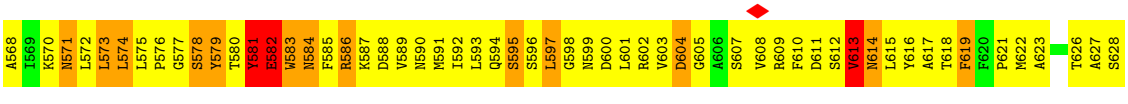


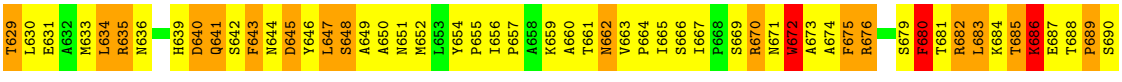


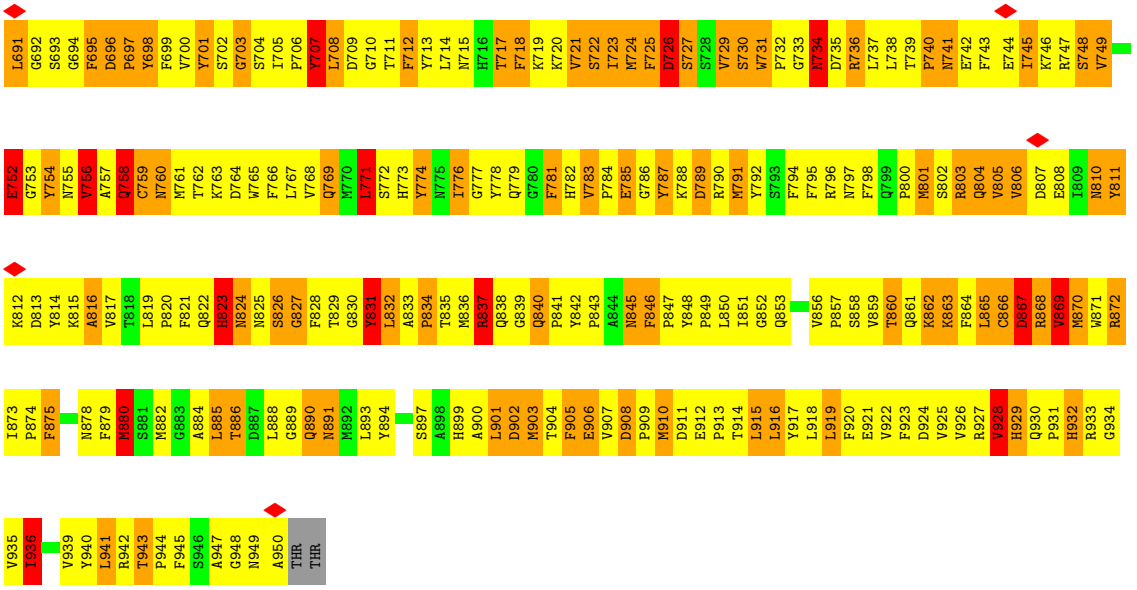






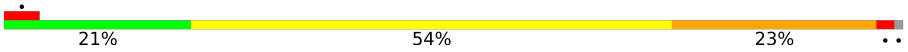


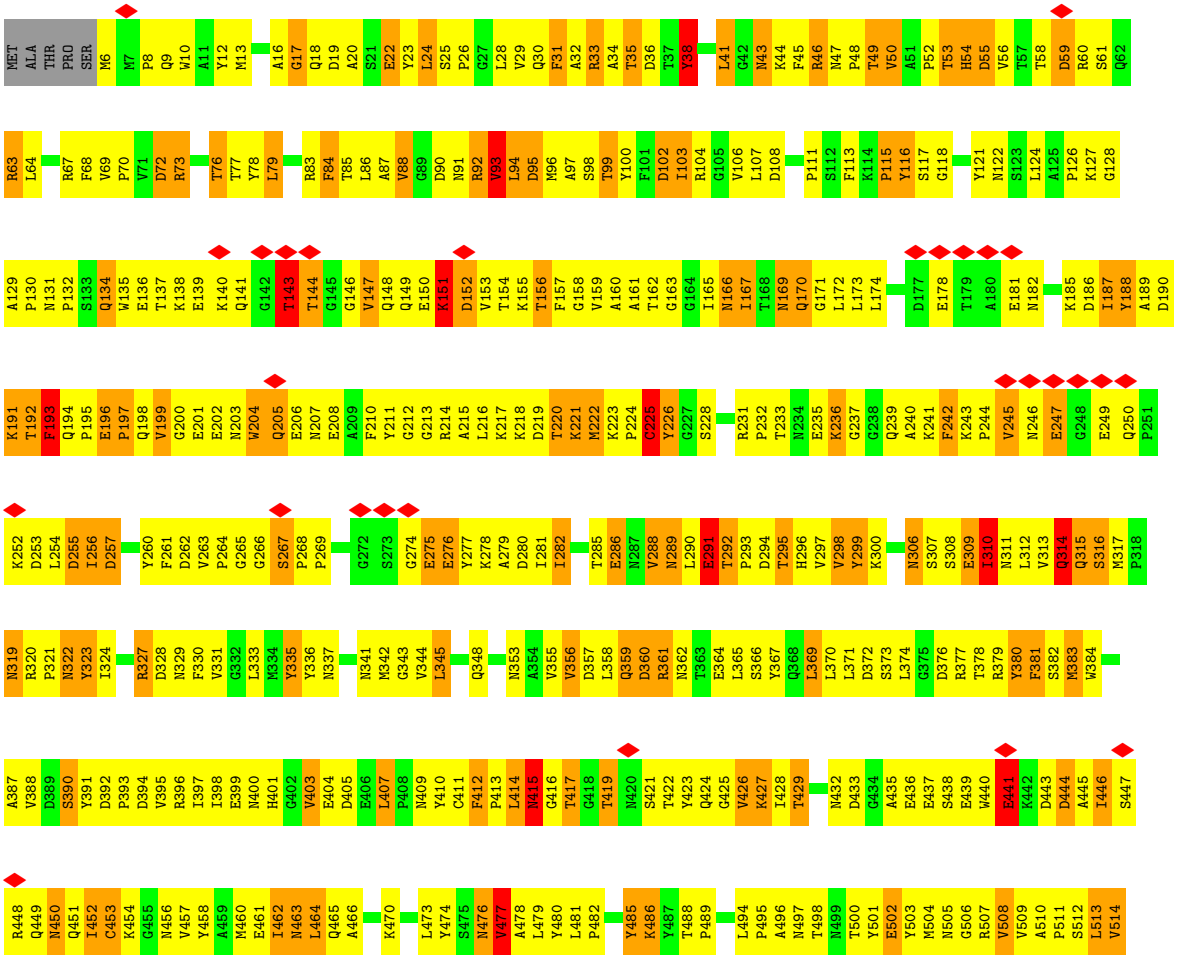


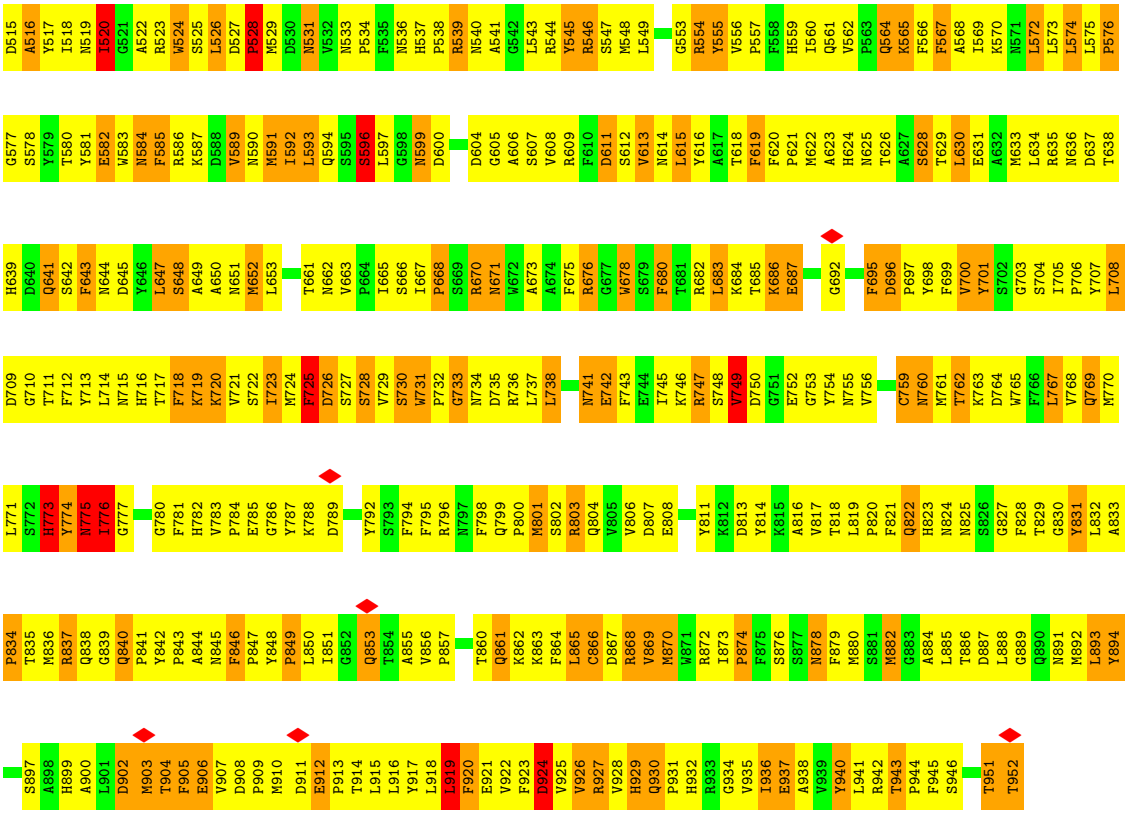


• Molecule 1: Hexon protein

Chain G:

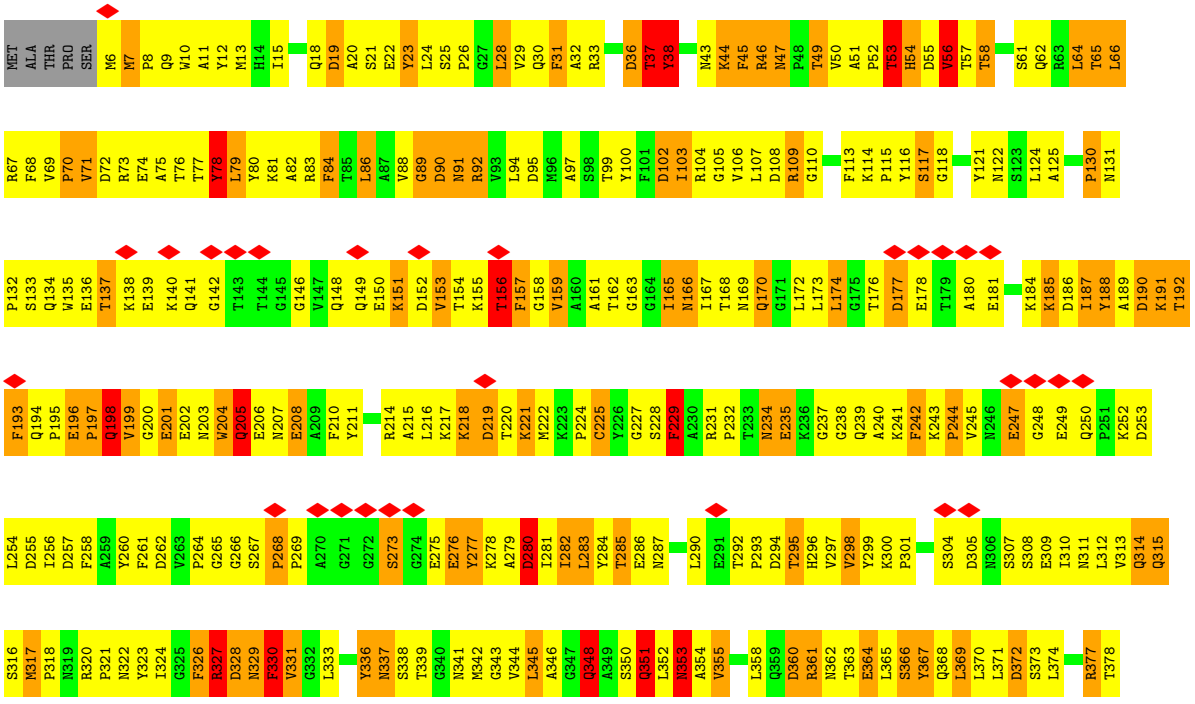


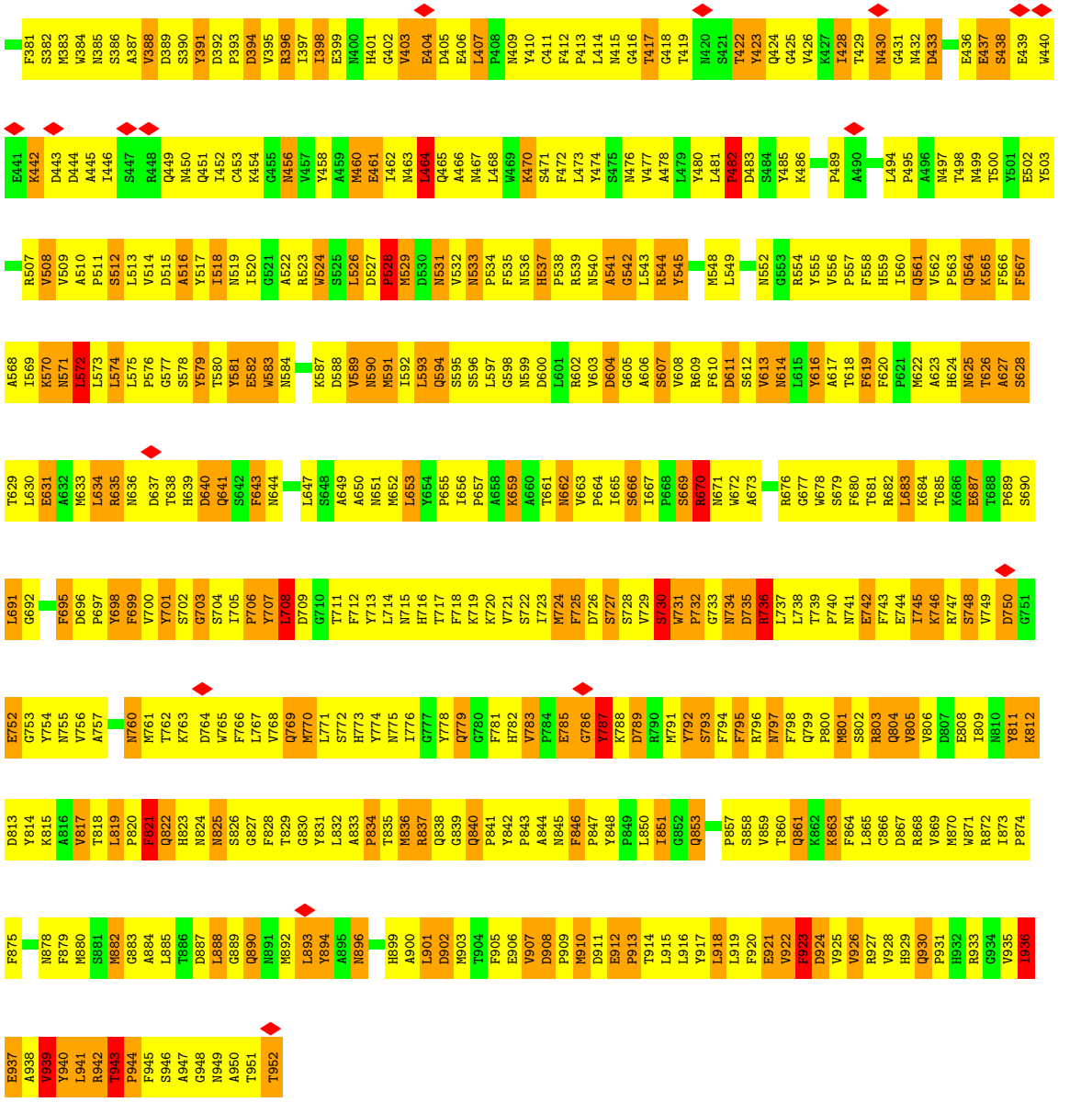




• Molecule 1: Hexon protein

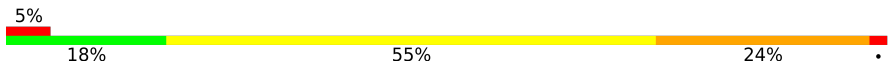
Chain H:

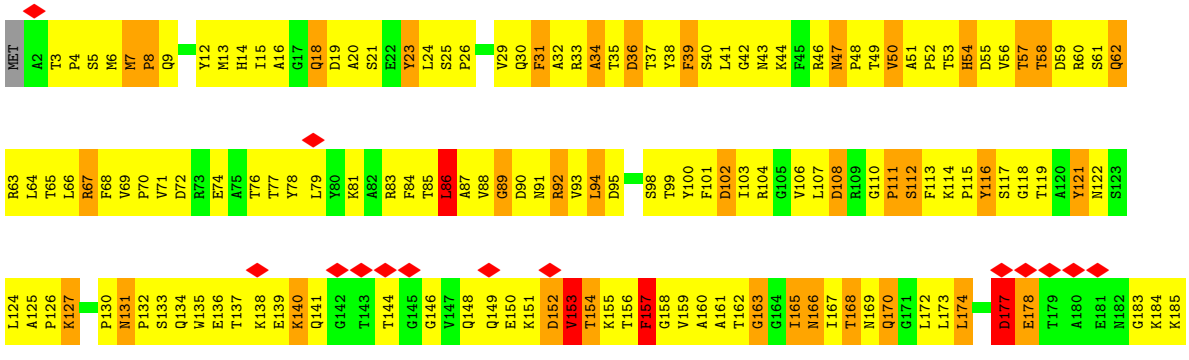


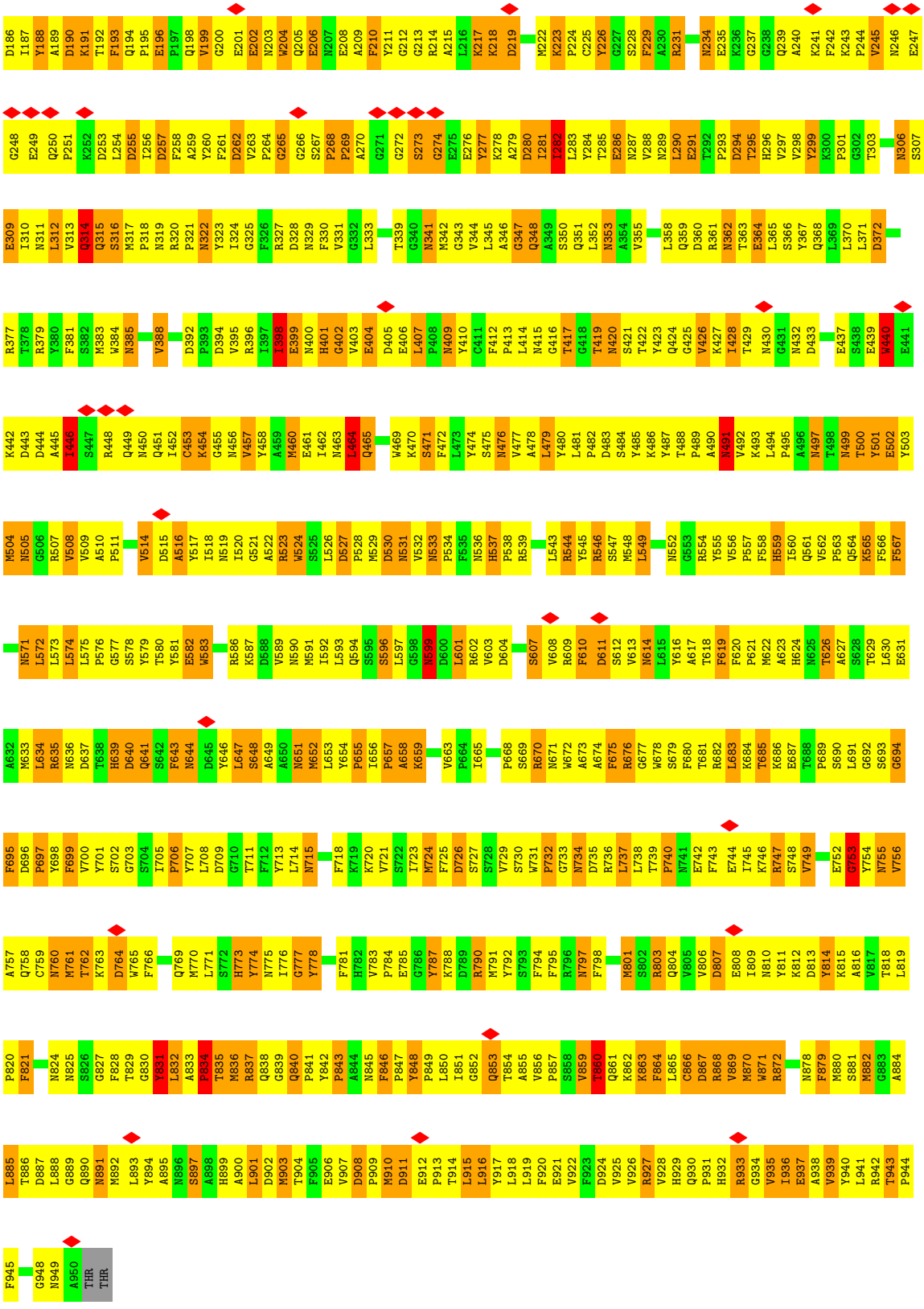


• Molecule 1: Hexon protein

Chain I:

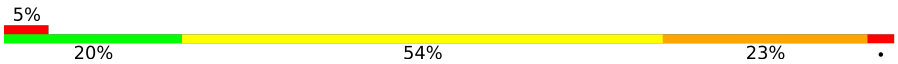


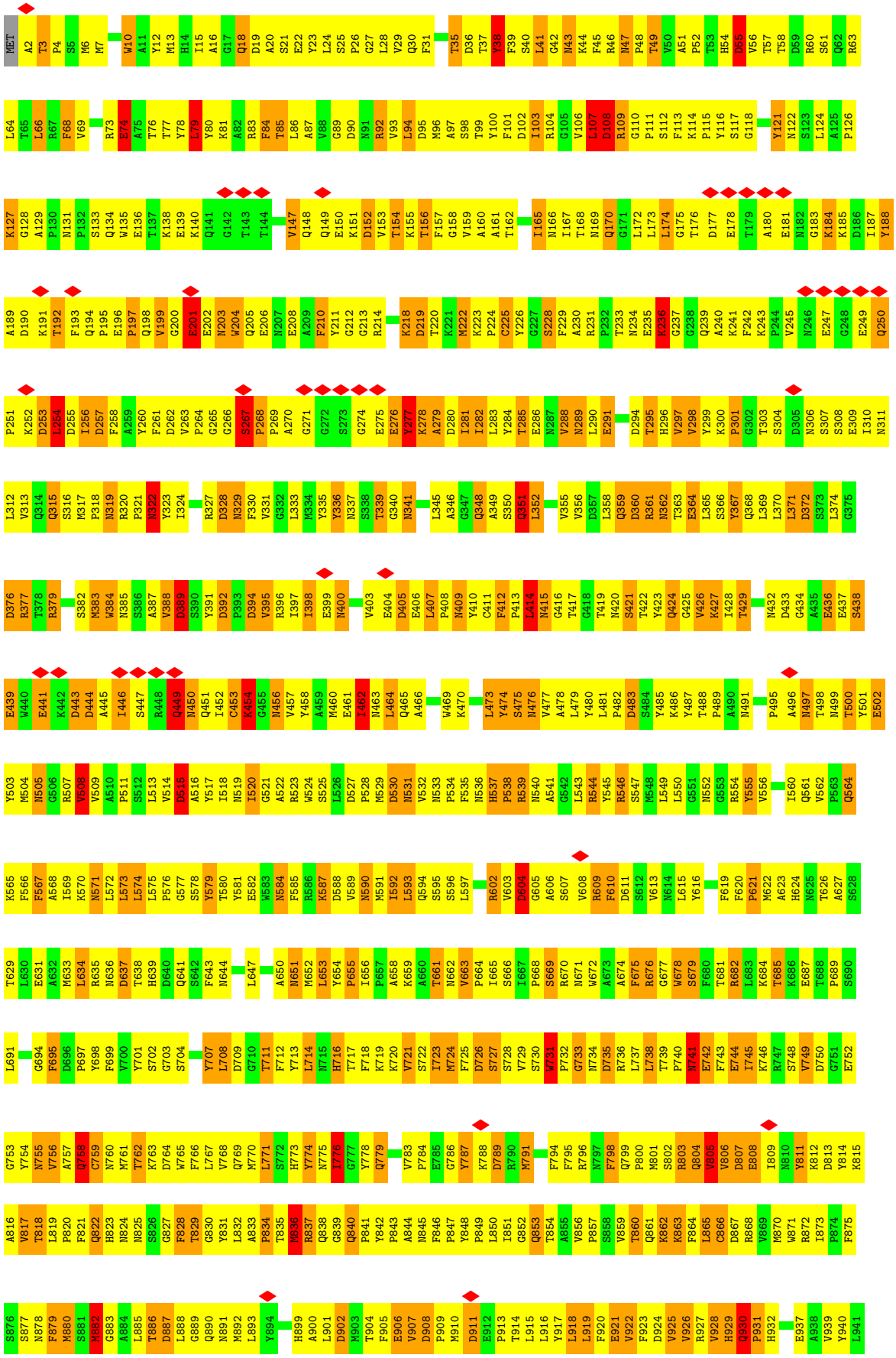


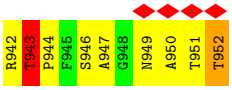


• Molecule 1: Hexon protein

Chain J:

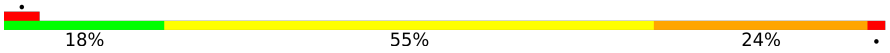


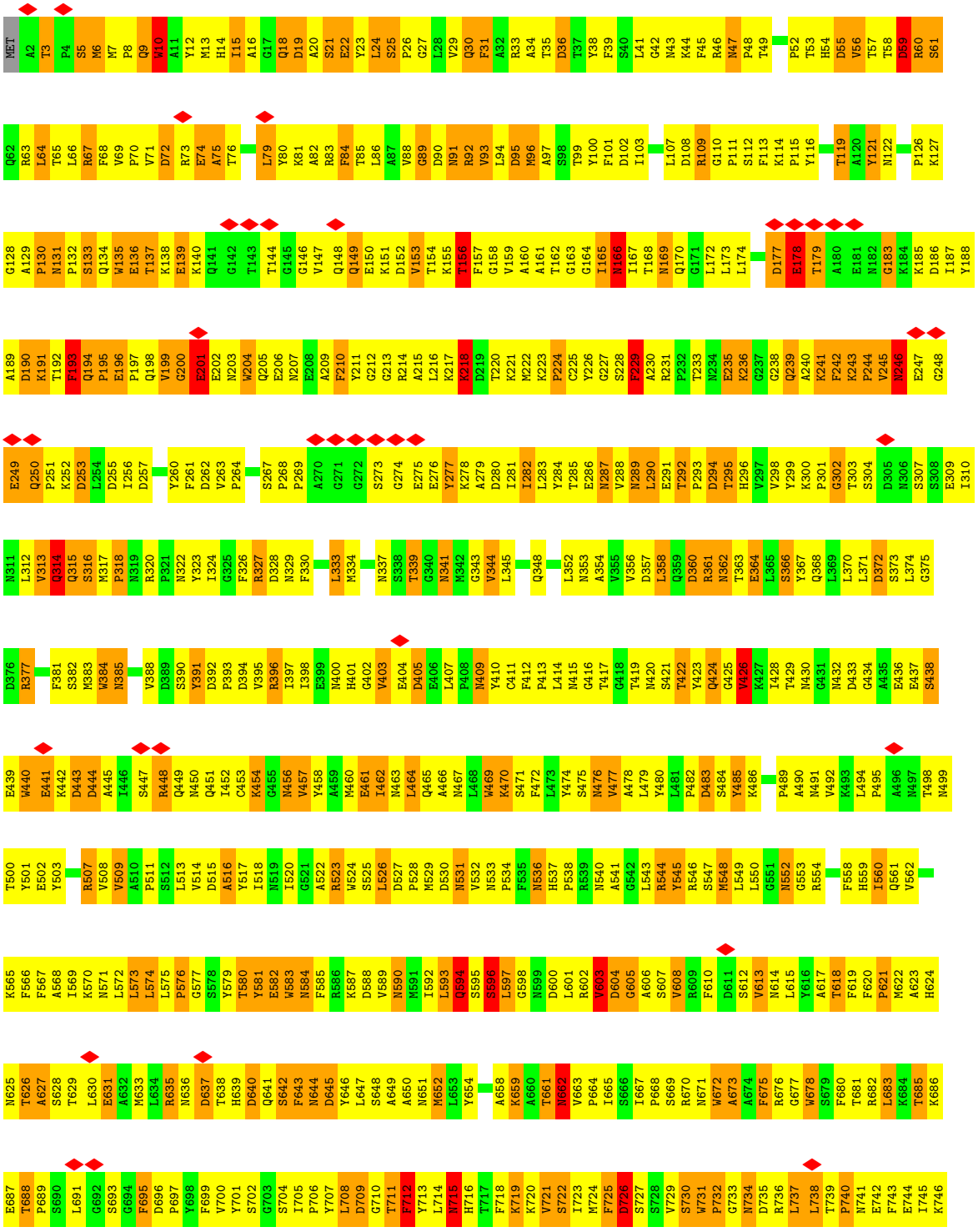


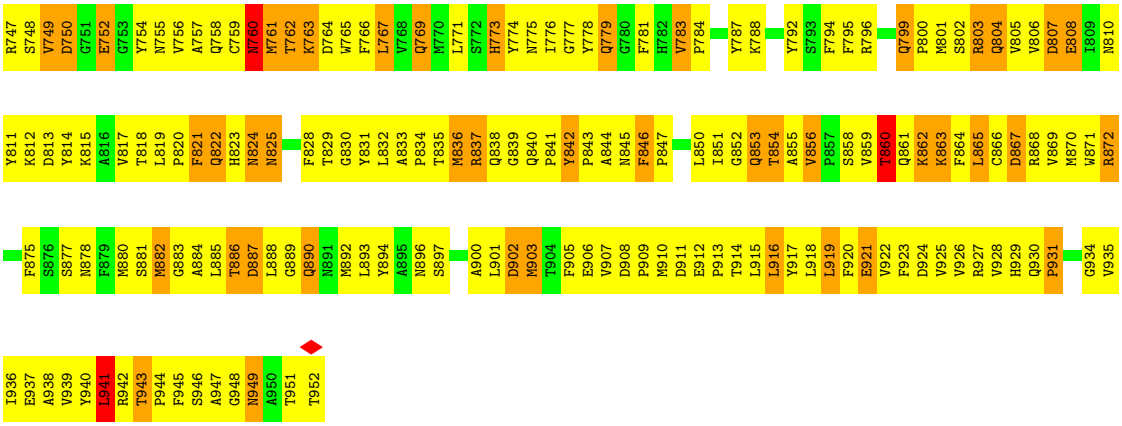


• Molecule 1: Hexon protein

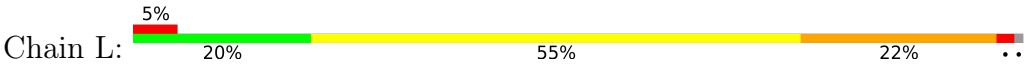
Chain K:

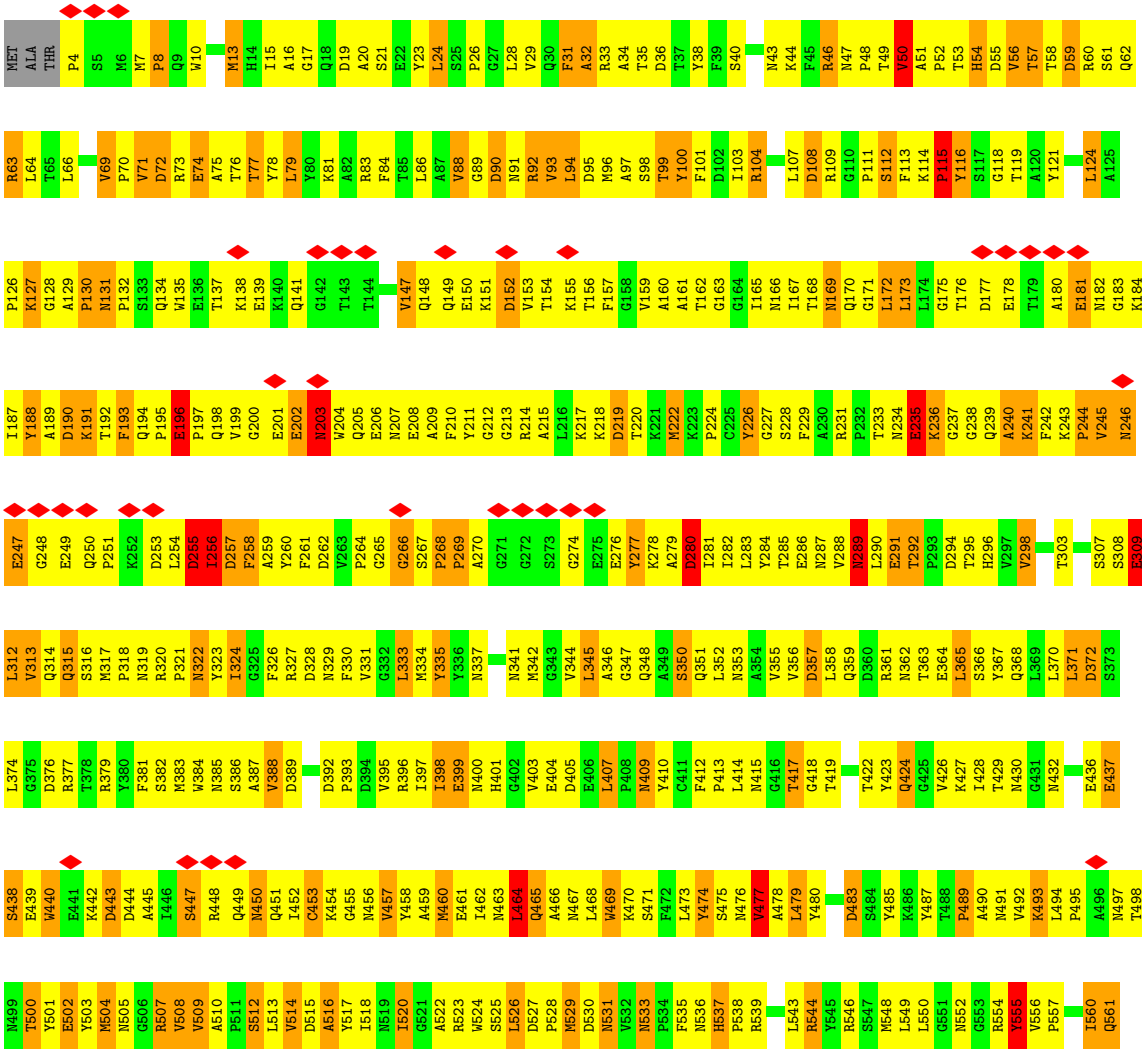


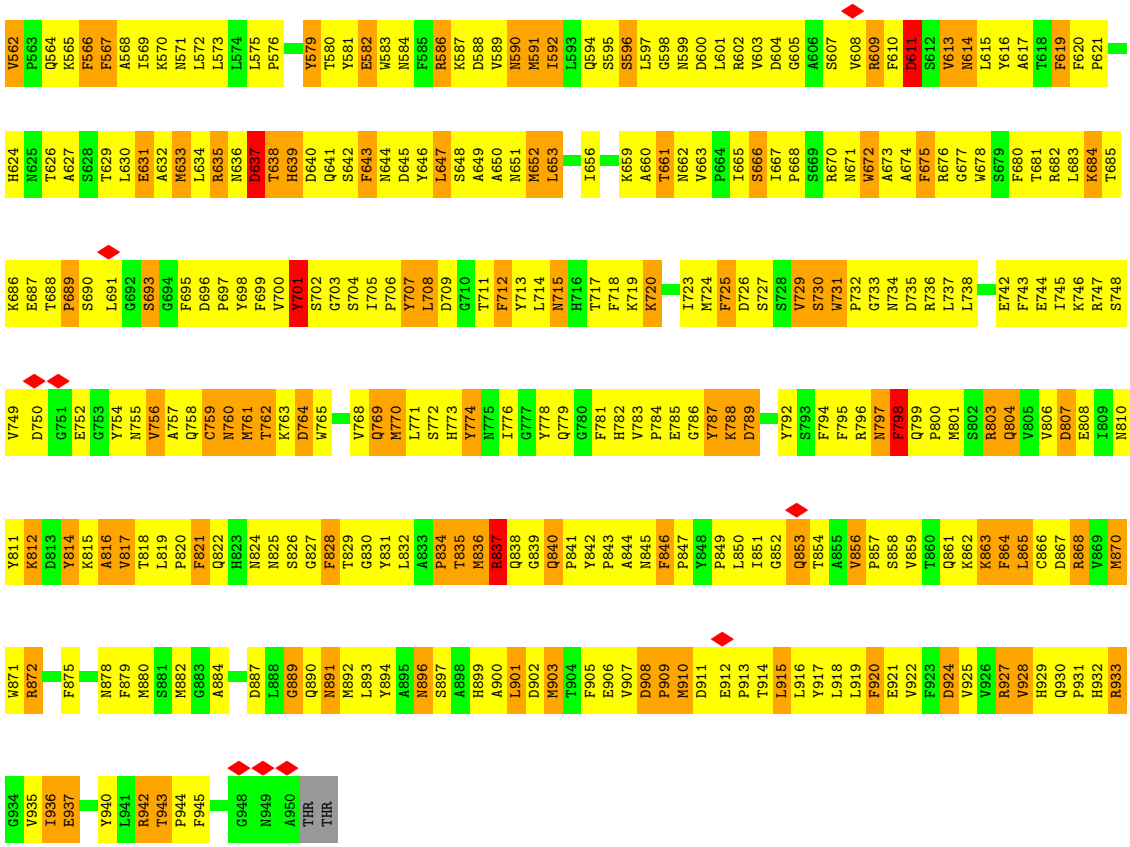




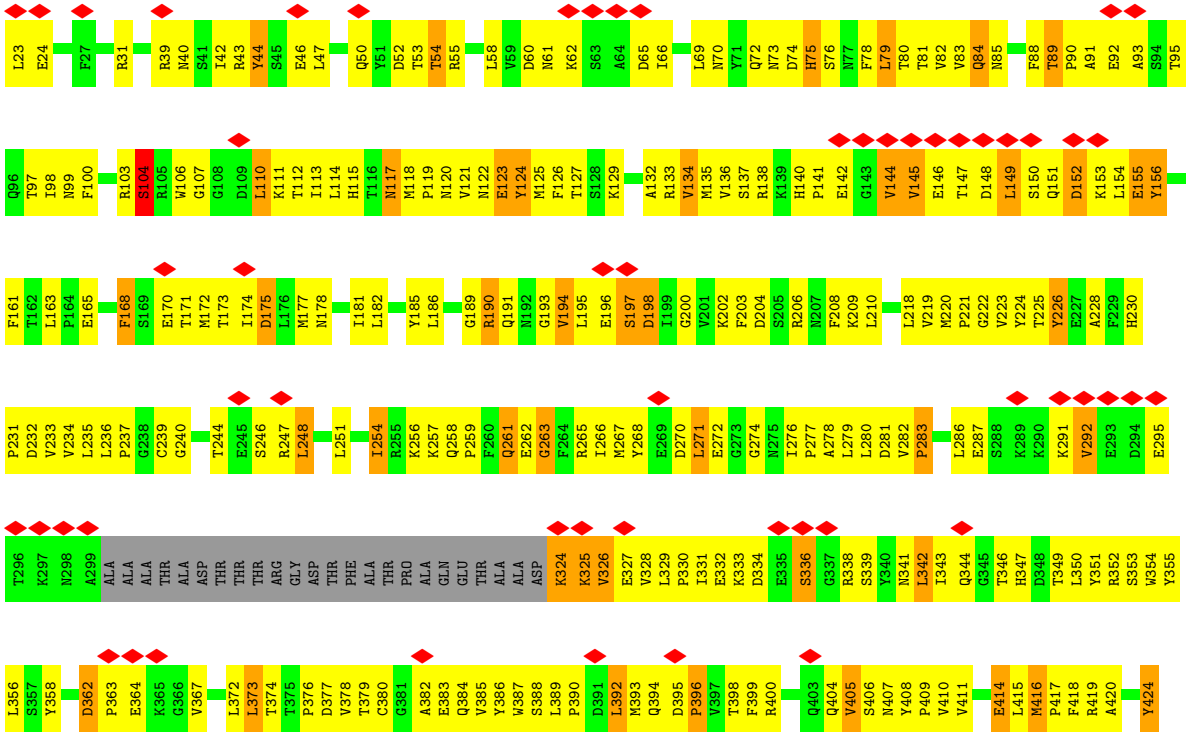
• Molecule 1: Hexon protein

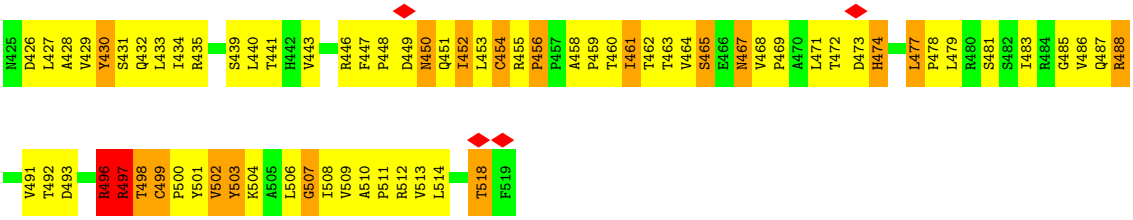




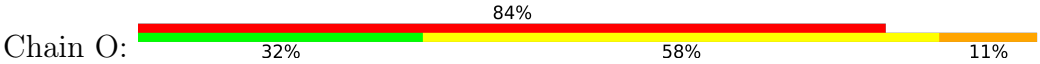


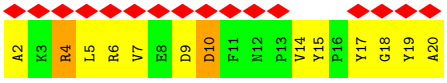
• Molecule 2: Penton



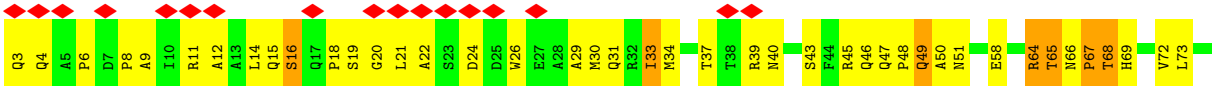


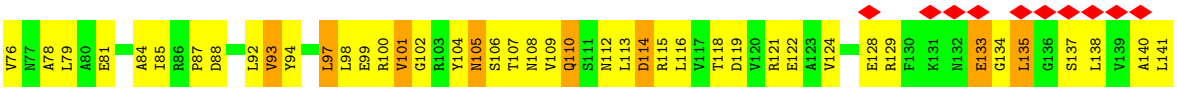
• Molecule 3: Fiber

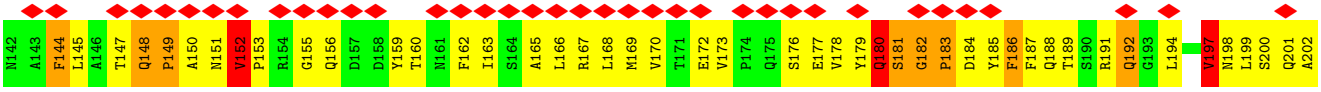


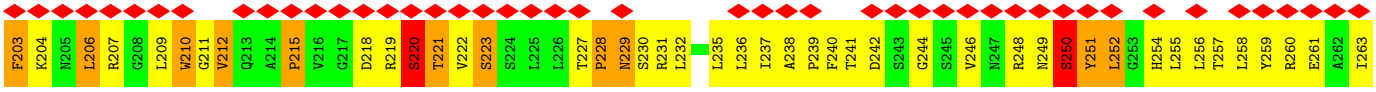


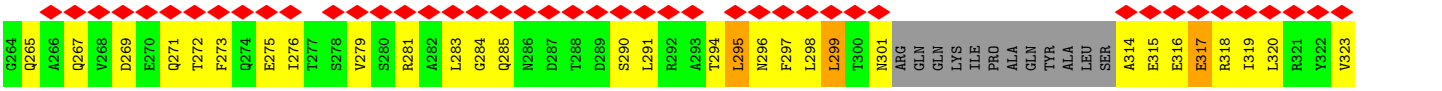
• Molecule 4: PIIIa

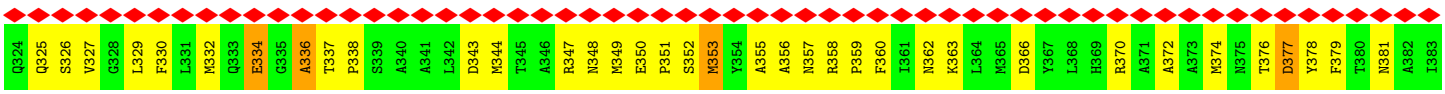


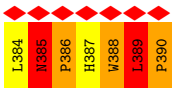




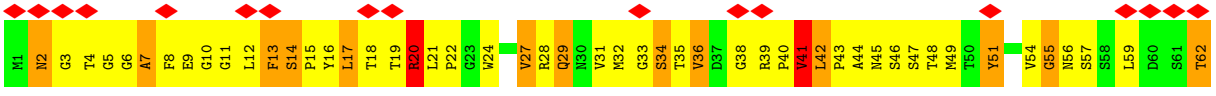


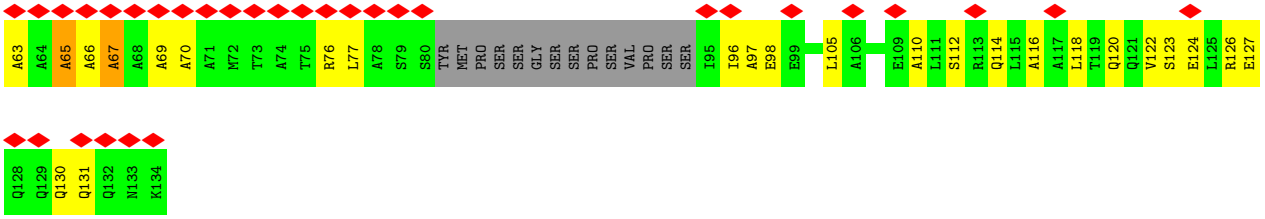






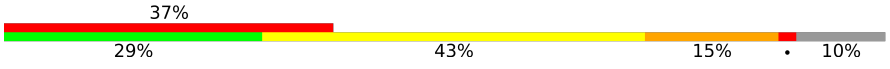
• Molecule 5: PIX

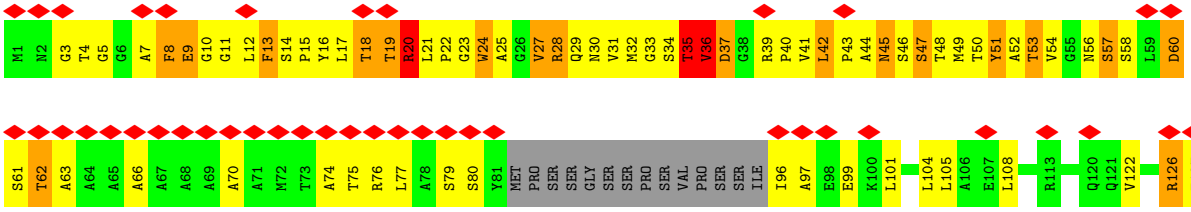




• Molecule 5: PIX

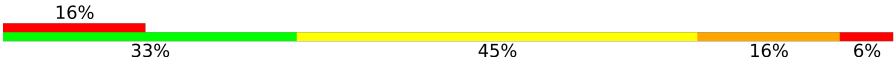
Chain Q:

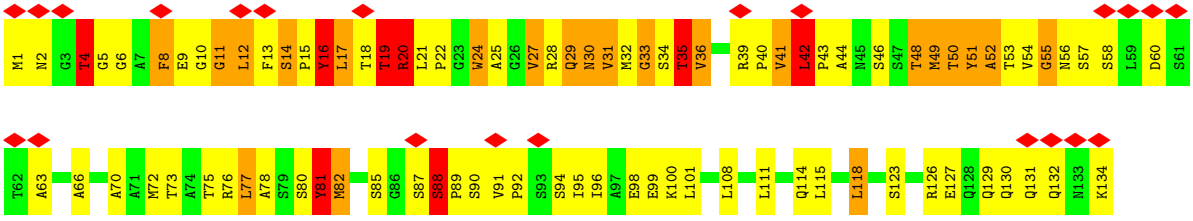




• Molecule 5: PIX

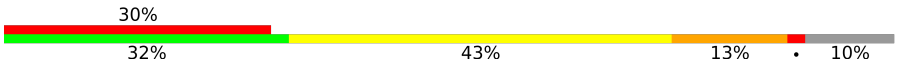
Chain R:

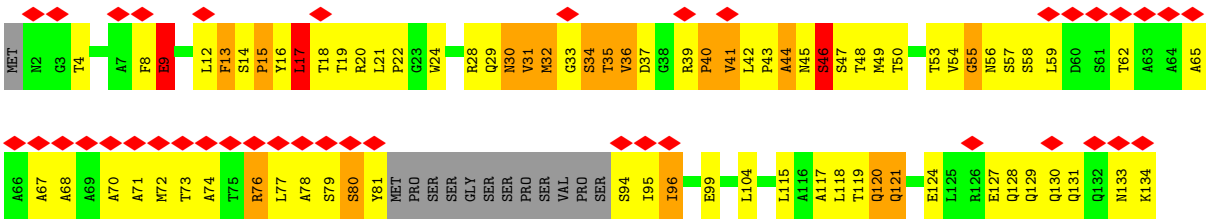




• Molecule 5: PIX

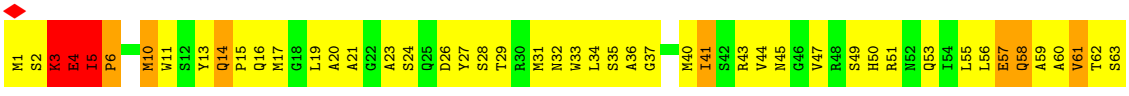
Chain S:

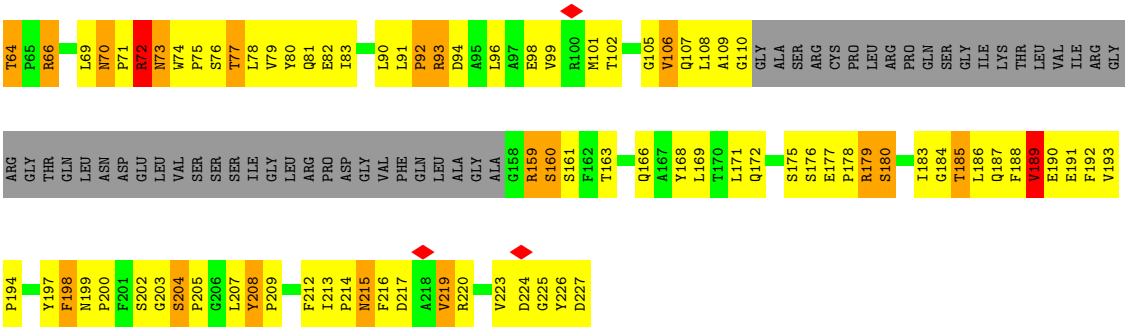




• Molecule 6: PVIII

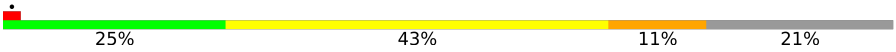
Chain U:

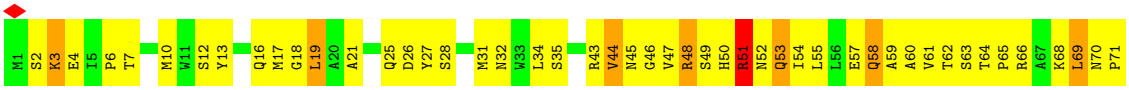


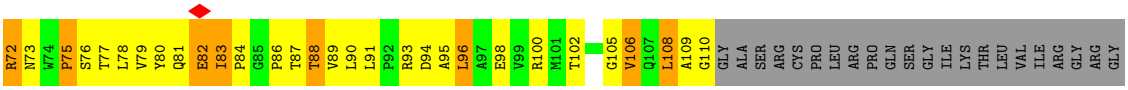


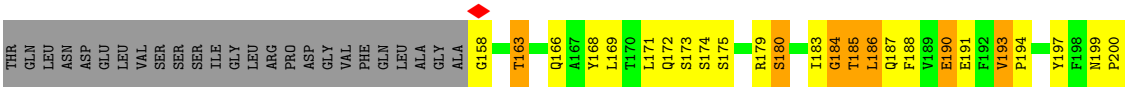
• Molecule 6: PVIII

Chain V:









• Molecule 7: PVI

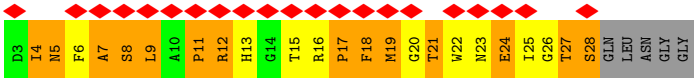
Chain 1:

• Molecule 7: PVI

Chain 2:

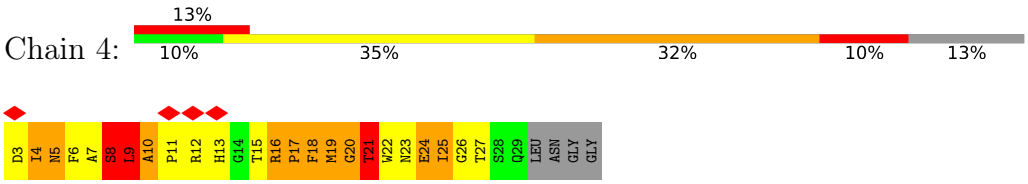
• Molecule 7: PVI

Chain 3:



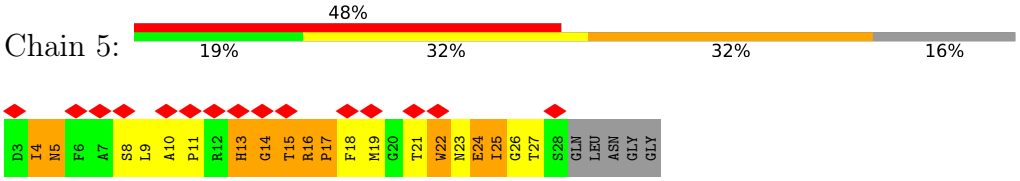
• Molecule 7: PVI

Chain 4:



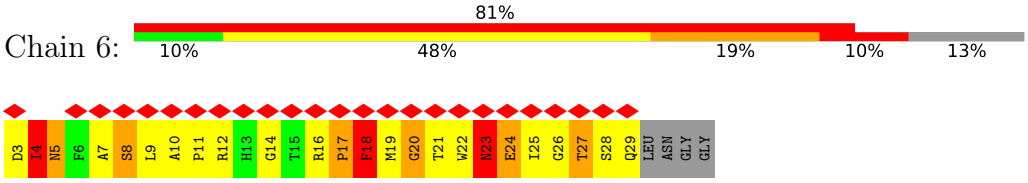
• Molecule 7: PVI

Chain 5:



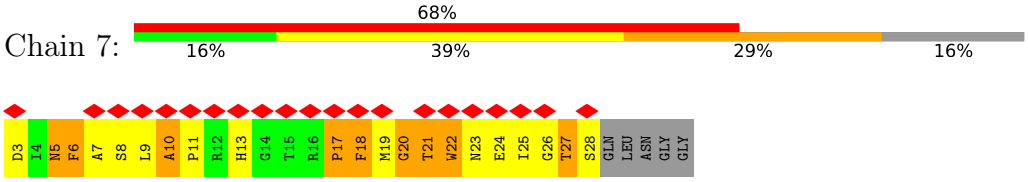
• Molecule 7: PVI

Chain 6:



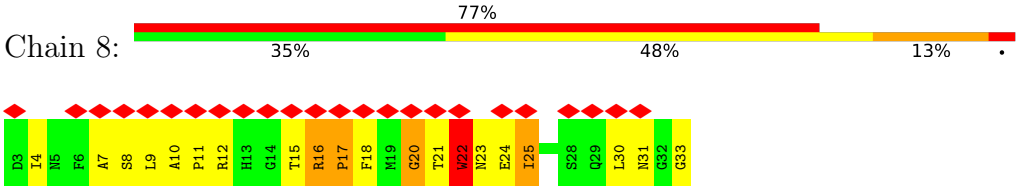
• Molecule 7: PVI

Chain 7:



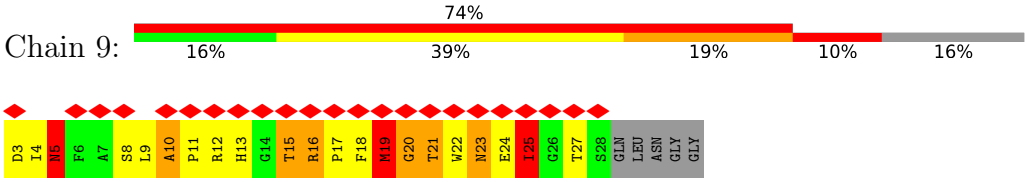
• Molecule 7: PVI

Chain 8:



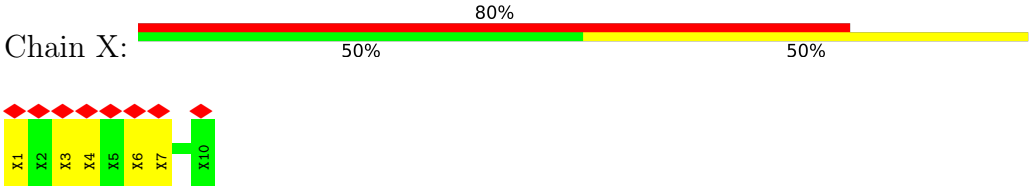
• Molecule 7: PVI

Chain 9:



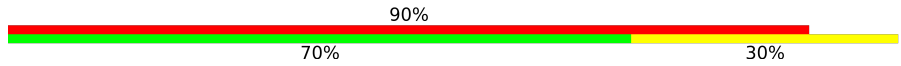
• Molecule 8: Unknown

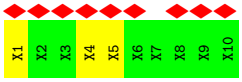
Chain X:



• Molecule 8: Unknown

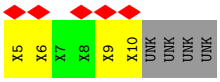
Chain Y:





• Molecule 8: Unknown

Chain Z:



4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, I	Depositor
Number of particles used	19000	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING ONLY	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/Å^2$)	1.4	Depositor
Minimum defocus (nm)	800	Depositor
Maximum defocus (nm)	Not provided	
Magnification	22500	Depositor
Image detector	GATAN K2 SUMMIT (4k x 4k)	Depositor
Maximum map value	0.115	Depositor
Minimum map value	-0.069	Depositor
Average map value	-0.002	Depositor
Map value standard deviation	0.006	Depositor
Recommended contour level	0.02	Depositor
Map size (Å)	1571.9999, 1571.9999, 1571.9999	wwPDB
Map dimensions	1200, 1200, 1200	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.31, 1.31, 1.31	Depositor

5 Model quality (i)

5.1 Standard geometry (i)

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#$\|Z\|$ >5	RMSZ	#$\|Z\|$ >5
1	A	0.73	5/7757 (0.1%)	1.12	54/10551 (0.5%)
1	B	0.95	15/7743 (0.2%)	1.40	81/10534 (0.8%)
1	C	0.80	5/7726 (0.1%)	1.19	52/10509 (0.5%)
1	D	0.82	10/7732 (0.1%)	1.18	47/10517 (0.4%)
1	E	0.90	12/7732 (0.2%)	1.28	78/10517 (0.7%)
1	F	0.86	6/7751 (0.1%)	1.27	70/10544 (0.7%)
1	G	0.92	9/7732 (0.1%)	1.57	70/10517 (0.7%)
1	H	0.92	11/7732 (0.1%)	1.33	69/10517 (0.7%)
1	I	0.78	1/7743 (0.0%)	1.18	53/10534 (0.5%)
1	J	1.01	11/7758 (0.1%)	1.26	49/10554 (0.5%)
1	K	0.84	3/7758 (0.0%)	1.22	55/10554 (0.5%)
1	L	0.77	2/7731 (0.0%)	1.18	45/10516 (0.4%)
2	N	0.71	4/3896 (0.1%)	0.98	15/5302 (0.3%)
3	O	1.04	0/167	1.66	1/225 (0.4%)
4	M	0.75	5/2990 (0.2%)	1.04	20/4067 (0.5%)
5	P	0.86	1/879 (0.1%)	1.44	15/1190 (1.3%)
5	Q	1.04	1/884 (0.1%)	1.45	13/1197 (1.1%)
5	R	0.82	0/978	1.30	13/1328 (1.0%)
5	S	0.78	0/890	1.22	7/1206 (0.6%)
6	U	0.73	0/1428	1.06	2/1946 (0.1%)
6	V	0.68	0/1428	1.01	5/1946 (0.3%)
7	1	1.45	2/242 (0.8%)	1.89	7/326 (2.1%)
7	2	1.20	0/217	1.73	6/294 (2.0%)
7	3	0.92	0/208	1.73	10/282 (3.5%)
7	4	1.26	2/217 (0.9%)	1.66	10/294 (3.4%)
7	5	1.21	0/208	1.71	7/282 (2.5%)
7	6	1.04	0/217	1.56	9/294 (3.1%)
7	7	1.06	1/208 (0.5%)	1.70	5/282 (1.8%)
7	8	1.28	1/242 (0.4%)	1.67	3/326 (0.9%)
7	9	1.16	0/208	1.46	2/282 (0.7%)
All	All	0.86	107/108402 (0.1%)	1.26	873/147433 (0.6%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand.A planarity outlier is detected

by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	2
1	B	0	5
1	C	0	1
1	E	0	2
1	F	0	3
1	G	1	3
1	H	0	2
1	I	0	1
1	J	0	2
1	L	0	2
5	P	0	1
All	All	1	24

All (107) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	J	277	TYR	CB-CG	-49.00	0.78	1.51
1	B	433	ASP	CB-CG	-28.79	0.91	1.51
1	H	328	ASP	CB-CG	-21.23	1.07	1.51
1	G	776	ILE	CB-CG1	-20.98	0.95	1.54
1	D	297	VAL	CB-CG1	19.99	1.94	1.52
1	B	431	GLY	C-N	-18.34	0.91	1.34
1	E	774	TYR	CB-CG	17.65	1.78	1.51
1	D	297	VAL	CB-CG2	-17.06	1.17	1.52
1	H	326	PHE	C-N	-16.15	0.96	1.34
4	M	390	PRO	C-OXT	15.79	1.53	1.23
2	N	496	ARG	CB-CG	-15.68	1.10	1.52
2	N	497	ARG	CB-CG	-15.61	1.10	1.52
1	A	18	GLN	C-N	-15.60	0.98	1.34
1	G	776	ILE	CB-CG2	15.17	1.99	1.52
1	G	774	TYR	CB-CG	14.59	1.73	1.51
1	E	321	PRO	CB-CG	14.01	2.19	1.50
1	K	201	GLU	CB-CG	-13.83	1.25	1.52
1	B	432	ASN	C-N	13.77	1.65	1.34
1	B	360	ASP	CB-CG	-13.64	1.23	1.51
7	8	33	GLY	C-OXT	13.62	1.49	1.23
1	E	773	HIS	C-N	-13.59	1.02	1.34
1	E	453	CYS	CB-SG	13.40	2.05	1.82
1	D	296	HIS	CB-CG	13.01	1.73	1.50
1	B	432	ASN	CB-CG	-11.81	1.23	1.51
1	E	320	ARG	CB-CG	-11.71	1.21	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	436	GLU	CB-CG	-11.26	1.30	1.52
1	E	544	ARG	CB-CG	11.17	1.82	1.52
1	H	755	ASN	CB-CG	-11.11	1.25	1.51
1	G	775	ASN	CB-CG	-11.04	1.25	1.51
1	F	735	ASP	CB-CG	-10.98	1.28	1.51
1	H	71	VAL	CB-CG1	10.88	1.75	1.52
1	F	880	MET	CB-CG	-10.61	1.17	1.51
1	D	295	THR	CB-OG1	10.29	1.63	1.43
1	L	310	ILE	CB-CG2	-9.76	1.22	1.52
1	B	433	ASP	C-N	-9.38	1.16	1.33
1	H	329	ASN	CB-CG	-9.35	1.29	1.51
1	D	66	LEU	CB-CG	-9.06	1.26	1.52
1	D	762	THR	CB-OG1	-8.79	1.25	1.43
1	H	482	PRO	N-CA	-8.71	1.32	1.47
1	D	294	ASP	C-N	-8.69	1.14	1.34
1	H	70	PRO	C-N	-8.46	1.14	1.34
1	G	776	ILE	C-N	-8.22	1.18	1.33
1	B	434	GLY	N-CA	7.78	1.57	1.46
1	L	310	ILE	CB-CG1	7.70	1.75	1.54
1	D	295	THR	CB-CG2	-7.54	1.27	1.52
1	J	278	LYS	CB-CG	7.46	1.72	1.52
1	C	146	GLY	CA-C	7.32	1.63	1.51
2	N	104	SER	CB-OG	-7.13	1.32	1.42
1	E	533	ASN	C-N	7.09	1.47	1.34
1	B	385	ASN	CB-CG	7.03	1.67	1.51
1	J	279	ALA	C-N	-6.91	1.18	1.34
7	1	18	PHE	CB-CG	-6.57	1.40	1.51
1	A	242	PHE	CB-CG	-6.54	1.40	1.51
1	J	276	GLU	C-N	-6.53	1.19	1.34
1	B	210	PHE	CB-CG	6.43	1.62	1.51
1	B	372	ASP	CB-CG	-6.41	1.38	1.51
1	E	8	PRO	CA-C	6.40	1.65	1.52
4	M	385	ASN	C-N	6.36	1.46	1.34
1	B	429	THR	C-N	-6.31	1.19	1.34
4	M	295	LEU	N-CA	6.21	1.58	1.46
7	1	28	SER	N-CA	6.16	1.58	1.46
1	H	678	TRP	CB-CG	-6.12	1.39	1.50
1	H	336	TYR	CB-CG	-6.08	1.42	1.51
1	K	533	ASN	C-N	6.05	1.45	1.34
1	A	18	GLN	CA-CB	5.96	1.67	1.53
1	H	923	PHE	CB-CG	-5.92	1.41	1.51
1	K	401	HIS	CB-CG	5.92	1.60	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	7	20	GLY	N-CA	-5.90	1.37	1.46
1	B	430	ASN	CB-CG	-5.80	1.37	1.51
1	D	761	MET	CB-CG	-5.73	1.33	1.51
1	F	343	GLY	CA-C	-5.73	1.42	1.51
7	4	24	GLU	N-CA	5.72	1.57	1.46
1	G	773	HIS	C-N	-5.63	1.21	1.34
1	A	718	PHE	CB-CG	-5.61	1.41	1.51
4	M	389	LEU	C-N	5.58	1.44	1.34
1	F	940	TYR	CB-CG	-5.52	1.43	1.51
1	C	894	TYR	CB-CG	-5.48	1.43	1.51
1	C	528	PRO	N-CA	-5.46	1.38	1.47
1	J	267	SER	C-N	5.45	1.44	1.34
1	D	922	VAL	N-CA	-5.44	1.35	1.46
1	H	71	VAL	CB-CG2	5.43	1.64	1.52
4	M	386	PRO	N-CA	5.42	1.56	1.47
1	C	242	PHE	CB-CG	-5.35	1.42	1.51
1	J	268	PRO	N-CA	5.35	1.56	1.47
1	B	45	PHE	CB-CG	-5.30	1.42	1.51
1	G	193	PHE	N-CA	-5.30	1.35	1.46
1	J	275	GLU	C-N	-5.29	1.21	1.34
1	J	443	ASP	C-N	-5.27	1.22	1.34
1	E	149	GLN	C-N	-5.26	1.22	1.34
1	B	402	GLY	N-CA	-5.22	1.38	1.46
5	P	67	ALA	CA-C	5.22	1.66	1.52
1	E	327	ARG	C-N	-5.22	1.22	1.34
1	F	344	VAL	N-CA	-5.22	1.35	1.46
2	N	156	TYR	CB-CG	-5.20	1.43	1.51
1	G	742	GLU	N-CA	-5.19	1.35	1.46
1	C	346	ALA	C-N	5.17	1.42	1.33
1	J	718	PHE	CB-CG	-5.16	1.42	1.51
1	F	330	PHE	C-N	-5.14	1.22	1.34
1	I	523	ARG	C-N	-5.13	1.22	1.34
1	G	678	TRP	CB-CG	-5.12	1.41	1.50
7	4	5	ASN	N-CA	5.10	1.56	1.46
1	J	952	THR	C-OXT	5.07	1.32	1.23
1	J	479	LEU	N-CA	-5.05	1.36	1.46
5	Q	5	GLY	N-CA	-5.04	1.38	1.46
1	A	729	VAL	N-CA	-5.04	1.36	1.46
1	E	380	TYR	CB-CG	-5.04	1.44	1.51
1	B	537	HIS	C-N	5.01	1.43	1.34

All (873) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	G	774	TYR	CB-CG-CD1	-63.44	82.93	121.00
1	G	774	TYR	CB-CG-CD2	60.92	157.55	121.00
1	B	210	PHE	CB-CG-CD2	-28.19	101.07	120.80
1	J	277	TYR	CA-CB-CG	25.09	161.06	113.40
1	B	210	PHE	CB-CG-CD1	25.02	138.31	120.80
1	G	776	ILE	CA-CB-CG1	24.50	157.55	111.00
1	H	327	ARG	CA-CB-CG	23.05	164.10	113.40
1	D	68	PHE	CB-CG-CD1	-21.77	105.56	120.80
1	B	360	ASP	CB-CG-OD2	-21.40	99.04	118.30
1	B	431	GLY	O-C-N	-21.02	89.07	122.70
1	D	68	PHE	CB-CG-CD2	20.96	135.47	120.80
1	E	774	TYR	CB-CG-CD1	-20.67	108.60	121.00
1	B	360	ASP	CB-CG-OD1	20.32	136.59	118.30
1	E	774	TYR	CB-CG-CD2	19.76	132.85	121.00
1	H	328	ASP	CB-CG-OD1	-18.47	101.67	118.30
1	B	431	GLY	C-N-CA	18.12	167.00	121.70
1	F	880	MET	CA-CB-CG	17.44	142.95	113.30
1	A	18	GLN	CB-CA-C	16.96	144.33	110.40
1	B	431	GLY	CA-C-N	16.52	153.55	117.20
1	B	211	TYR	CB-CG-CD2	-16.32	111.21	121.00
1	A	18	GLN	O-C-N	-16.15	96.86	122.70
1	H	330	PHE	CB-CG-CD2	-16.11	109.52	120.80
1	H	328	ASP	CB-CG-OD2	16.10	132.79	118.30
1	D	761	MET	CA-CB-CG	15.62	139.85	113.30
1	B	432	ASN	CB-CG-OD1	-15.43	90.75	121.60
1	B	211	TYR	CB-CG-CD1	15.31	130.19	121.00
1	J	277	TYR	CB-CG-CD2	-15.25	111.85	121.00
1	A	18	GLN	C-N-CA	14.59	158.17	121.70
1	H	330	PHE	CB-CG-CD1	14.11	130.68	120.80
1	E	773	HIS	O-C-N	-13.96	100.37	122.70
1	G	773	HIS	O-C-N	-13.62	100.92	122.70
1	G	776	ILE	O-C-N	-13.41	100.40	123.20
1	E	440	TRP	CA-CB-CG	-13.36	88.31	113.70
1	D	297	VAL	CA-CB-CG2	12.70	129.94	110.90
1	E	911	ASP	CB-CA-C	-12.34	85.72	110.40
1	K	440	TRP	CA-CB-CG	-12.05	90.80	113.70
2	N	497	ARG	CA-CB-CG	11.93	139.64	113.40
1	H	78	TYR	CB-CG-CD2	-11.63	114.02	121.00
1	H	78	TYR	CB-CA-C	-11.56	87.27	110.40
1	K	201	GLU	CB-CG-CD	-11.49	83.19	114.20
1	D	314	GLN	CB-CA-C	-11.46	87.48	110.40
1	B	432	ASN	CA-CB-CG	11.41	138.51	113.40
1	G	776	ILE	CA-CB-CG2	-11.35	88.21	110.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	E	436	GLU	CA-CB-CG	11.07	137.75	113.40
1	B	314	GLN	CB-CA-C	-11.05	88.30	110.40
1	F	718	PHE	CB-CG-CD2	-10.97	113.12	120.80
1	H	242	PHE	CB-CA-C	-10.87	88.66	110.40
1	B	429	THR	O-C-N	-10.80	105.43	122.70
1	G	776	ILE	CB-CG1-CD1	10.76	144.02	113.90
1	A	18	GLN	CA-C-N	10.66	140.65	117.20
1	C	774	TYR	CB-CG-CD1	-10.59	114.64	121.00
1	B	861	GLN	CB-CA-C	-10.59	89.22	110.40
1	K	59	ASP	CA-CB-CG	-10.52	90.26	113.40
1	G	742	GLU	N-CA-CB	-10.43	91.83	110.60
1	A	242	PHE	CB-CA-C	-10.26	89.88	110.40
1	B	372	ASP	CB-CG-OD2	-10.12	109.19	118.30
7	1	18	PHE	CB-CA-C	-10.06	90.27	110.40
7	1	18	PHE	CB-CG-CD1	-9.98	113.81	120.80
1	F	869	VAL	CB-CA-C	-9.94	92.52	111.40
1	J	718	PHE	CB-CA-C	-9.90	90.60	110.40
1	G	937	GLU	CB-CA-C	-9.89	90.62	110.40
1	J	610	PHE	CB-CA-C	-9.88	90.64	110.40
1	H	102	ASP	CB-CA-C	-9.76	90.89	110.40
1	H	71	VAL	CG1-CB-CG2	-9.71	95.36	110.90
1	C	242	PHE	CB-CA-C	-9.66	91.08	110.40
1	E	848	TYR	CB-CG-CD1	-9.62	115.23	121.00
5	P	67	ALA	O-C-N	9.51	137.92	122.70
1	D	66	LEU	CA-CB-CG	9.47	137.09	115.30
2	N	497	ARG	CB-CG-CD	-9.44	87.06	111.60
1	E	905	PHE	CB-CA-C	-9.40	91.59	110.40
1	G	742	GLU	CB-CG-CD	-9.37	88.89	114.20
1	G	775	ASN	CB-CG-OD1	9.36	140.33	121.60
1	E	79	LEU	CB-CA-C	-9.36	92.42	110.20
1	I	756	VAL	CB-CA-C	-9.24	93.85	111.40
1	G	773	HIS	CA-C-N	9.19	137.42	117.20
5	Q	9	GLU	CA-C-N	-9.16	97.88	116.20
1	B	372	ASP	CB-CG-OD1	9.10	126.49	118.30
5	P	65	ALA	O-C-N	-9.05	108.22	122.70
1	A	224	PRO	N-CA-CB	9.05	114.16	103.30
1	A	937	GLU	CB-CA-C	-8.99	92.41	110.40
1	H	923	PHE	CB-CA-C	-8.98	92.45	110.40
1	H	678	TRP	CB-CA-C	-8.94	92.52	110.40
5	R	16	TYR	CB-CG-CD2	-8.93	115.64	121.00
1	G	926	VAL	CB-CA-C	-8.90	94.49	111.40
1	I	299	TYR	CB-CG-CD2	8.87	126.32	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	G	678	TRP	CB-CA-C	-8.81	92.78	110.40
1	F	804	GLN	CB-CA-C	-8.75	92.90	110.40
1	G	775	ASN	CB-CG-ND2	-8.75	95.70	116.70
1	I	299	TYR	CB-CG-CD1	-8.72	115.77	121.00
5	Q	11	GLY	N-CA-C	-8.71	91.32	113.10
1	J	758	GLN	CB-CA-C	-8.69	93.02	110.40
1	H	314	GLN	CB-CA-C	-8.69	93.02	110.40
1	B	432	ASN	CB-CG-ND2	8.68	137.53	116.70
1	D	277	TYR	CB-CG-CD2	-8.64	115.82	121.00
1	G	314	GLN	CB-CA-C	-8.63	93.14	110.40
7	8	30	LEU	CB-CA-C	-8.60	93.85	110.20
1	I	186	ASP	CA-CB-CG	-8.60	94.49	113.40
1	D	297	VAL	CA-CB-CG1	-8.58	98.03	110.90
1	D	78	TYR	CB-CG-CD1	-8.57	115.86	121.00
1	H	54	HIS	CA-CB-CG	-8.57	99.03	113.60
1	J	276	GLU	O-C-N	8.54	136.36	122.70
1	I	639	HIS	CB-CA-C	-8.51	93.39	110.40
1	C	385	ASN	CB-CA-C	-8.48	93.44	110.40
1	L	509	VAL	CB-CA-C	-8.45	95.35	111.40
5	Q	13	PHE	CB-CA-C	-8.43	93.54	110.40
1	B	62	GLN	CB-CA-C	-8.42	93.56	110.40
4	M	385	ASN	N-CA-C	8.40	133.68	111.00
1	F	928	VAL	CB-CA-C	-8.40	95.44	111.40
1	I	834	PRO	C-N-CA	-8.32	100.90	121.70
2	N	152	ASP	CB-CA-C	8.29	126.99	110.40
1	G	776	ILE	CA-C-N	8.29	132.77	116.20
4	M	295	LEU	N-CA-C	8.25	133.28	111.00
1	J	511	PRO	CB-CA-C	-8.21	91.46	112.00
7	3	18	PHE	N-CA-C	8.20	133.15	111.00
1	F	680	PHE	CB-CG-CD2	-8.17	115.08	120.80
1	L	310	ILE	CA-CB-CG2	8.16	127.22	110.90
1	K	135	TRP	CA-CB-CG	-8.15	98.22	113.70
1	B	433	ASP	CB-CG-OD2	-8.09	111.02	118.30
1	E	678	TRP	CB-CA-C	-8.08	94.25	110.40
1	K	242	PHE	CB-CA-C	-8.08	94.25	110.40
1	H	811	TYR	CB-CG-CD2	-8.06	116.16	121.00
1	K	229	PHE	CB-CG-CD1	-8.00	115.20	120.80
1	B	359	GLN	O-C-N	-7.98	109.92	122.70
1	E	848	TYR	CB-CG-CD2	7.96	125.78	121.00
1	B	429	THR	C-N-CA	7.93	141.54	121.70
1	D	725	PHE	CB-CA-C	7.89	126.17	110.40
1	F	257	ASP	CA-CB-CG	-7.88	96.07	113.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	224	PRO	N-CA-C	-7.87	91.64	112.10
1	H	736	ARG	CB-CA-C	-7.85	94.70	110.40
1	A	280	ASP	N-CA-C	7.83	132.13	111.00
1	K	54	HIS	CA-CB-CG	-7.80	100.34	113.60
1	B	731	TRP	CA-CB-CG	-7.77	98.94	113.70
1	G	539	ARG	CB-CA-C	-7.76	94.87	110.40
1	I	255	ASP	CB-CA-C	-7.76	94.88	110.40
1	L	639	HIS	CB-CA-C	-7.75	94.91	110.40
1	J	74	GLU	N-CA-CB	-7.73	96.69	110.60
1	H	326	PHE	CB-CA-C	7.71	125.81	110.40
1	B	78	TYR	CB-CG-CD1	-7.69	116.39	121.00
1	E	773	HIS	CA-C-N	7.67	134.08	117.20
1	E	931	PRO	C-N-CA	-7.66	102.54	121.70
1	D	848	TYR	CB-CG-CD1	-7.66	116.41	121.00
1	H	731	TRP	CA-CB-CG	-7.64	99.18	113.70
1	B	434	GLY	CA-C-O	7.64	134.35	120.60
1	I	242	PHE	CB-CA-C	-7.63	95.14	110.40
7	6	4	ILE	C-N-CA	7.63	140.78	121.70
2	N	414	GLU	CB-CA-C	7.62	125.63	110.40
1	C	861	GLN	CB-CA-C	-7.61	95.19	110.40
1	E	754	TYR	CB-CG-CD2	7.60	125.56	121.00
1	F	90	ASP	CA-CB-CG	-7.60	96.68	113.40
1	L	280	ASP	CB-CA-C	-7.60	95.20	110.40
1	J	38	TYR	CB-CG-CD2	7.59	125.55	121.00
1	E	894	TYR	CB-CA-C	7.58	125.55	110.40
1	H	66	LEU	CB-CA-C	-7.57	95.82	110.20
1	B	929	HIS	CB-CA-C	-7.53	95.34	110.40
1	H	90	ASP	CA-CB-CG	-7.52	96.86	113.40
5	R	19	THR	C-N-CA	-7.49	102.98	121.70
1	G	742	GLU	CB-CA-C	7.48	125.36	110.40
5	P	65	ALA	N-CA-CB	7.48	120.57	110.10
1	F	740	PRO	CB-CA-C	-7.47	93.33	112.00
1	J	226	TYR	CB-CG-CD1	-7.46	116.52	121.00
1	F	940	TYR	CB-CA-C	-7.45	95.50	110.40
1	D	911	ASP	CA-CB-CG	-7.44	97.03	113.40
1	E	305	ASP	CA-CB-CG	-7.43	97.05	113.40
1	I	807	ASP	CB-CA-C	-7.41	95.58	110.40
1	A	314	GLN	CB-CA-C	-7.41	95.58	110.40
1	G	226	TYR	CB-CG-CD1	-7.41	116.56	121.00
1	B	361	ARG	CA-CB-CG	-7.36	97.20	113.40
1	E	305	ASP	CB-CA-C	-7.36	95.68	110.40
1	A	336	TYR	CB-CG-CD2	-7.34	116.60	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	6	18	PHE	N-CA-C	7.30	130.72	111.00
6	U	202	SER	C-N-CA	7.28	137.58	122.30
1	B	908	ASP	CB-CA-C	-7.27	95.86	110.40
1	J	879	PHE	CB-CA-C	-7.25	95.90	110.40
1	H	811	TYR	CB-CG-CD1	7.25	125.35	121.00
1	J	399	GLU	CB-CA-C	-7.24	95.92	110.40
1	B	812	LYS	C-N-CA	7.24	139.79	121.70
7	1	25	ILE	C-N-CA	7.23	137.49	122.30
1	D	434	GLY	N-CA-C	-7.23	95.03	113.10
1	L	474	TYR	CB-CG-CD1	-7.20	116.68	121.00
1	A	732	PRO	CB-CA-C	-7.19	94.02	112.00
2	N	456	PRO	CB-CA-C	-7.18	94.04	112.00
1	A	567	PHE	CB-CG-CD1	-7.16	115.79	120.80
1	F	680	PHE	CB-CA-C	-7.16	96.08	110.40
7	7	18	PHE	CB-CA-C	-7.14	96.11	110.40
1	J	276	GLU	CA-C-N	-7.14	101.49	117.20
1	K	360	ASP	CA-CB-CG	-7.12	97.72	113.40
6	V	201	PHE	CB-CG-CD1	-7.10	115.83	120.80
1	H	103	ILE	CB-CA-C	-7.10	97.40	111.60
1	E	314	GLN	CB-CA-C	-7.09	96.22	110.40
7	1	26	GLY	N-CA-C	7.09	130.83	113.10
2	N	156	TYR	CB-CG-CD1	-7.09	116.75	121.00
1	G	905	PHE	CB-CA-C	-7.08	96.23	110.40
1	B	202	GLU	CB-CA-C	7.08	124.56	110.40
1	E	321	PRO	CA-CB-CG	-7.08	90.54	104.00
1	I	140	LYS	C-N-CA	-7.08	104.00	121.70
7	5	18	PHE	CB-CG-CD2	-7.05	115.86	120.80
1	F	867	ASP	CA-CB-CG	-7.04	97.90	113.40
1	A	262	ASP	CB-CA-C	7.02	124.44	110.40
1	E	204	TRP	CB-CA-C	-7.01	96.38	110.40
1	I	18	GLN	CB-CA-C	-7.01	96.38	110.40
1	E	616	TYR	CB-CG-CD1	-6.99	116.81	121.00
1	G	834	PRO	CB-CA-C	-6.98	94.55	112.00
1	K	476	ASN	CA-CB-CG	-6.98	98.04	113.40
1	L	59	ASP	CA-CB-CG	-6.98	98.05	113.40
1	L	700	VAL	CB-CA-C	-6.97	98.15	111.40
1	E	911	ASP	N-CA-C	6.96	129.81	111.00
7	8	31	ASN	CB-CA-C	-6.95	96.49	110.40
1	K	842	TYR	CB-CG-CD2	-6.95	116.83	121.00
5	Q	35	THR	CA-C-N	-6.94	101.92	117.20
1	D	806	VAL	CB-CA-C	-6.94	98.21	111.40
1	H	78	TYR	CB-CG-CD1	6.93	125.16	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	L	707	TYR	CB-CG-CD1	-6.93	116.84	121.00
4	M	252	LEU	CB-CA-C	6.90	123.31	110.20
1	L	731	TRP	CA-CB-CG	-6.89	100.60	113.70
1	F	848	TYR	CB-CG-CD1	-6.89	116.86	121.00
5	Q	132	GLN	CB-CA-C	6.88	124.17	110.40
1	G	848	TYR	CB-CG-CD1	-6.87	116.88	121.00
1	H	725	PHE	CB-CA-C	6.87	124.14	110.40
1	J	38	TYR	CB-CG-CD1	-6.86	116.88	121.00
1	A	224	PRO	CB-CA-C	-6.86	94.86	112.00
1	K	560	ILE	CB-CA-C	-6.85	97.91	111.60
1	L	804	GLN	CB-CA-C	-6.84	96.71	110.40
1	D	78	TYR	CB-CG-CD2	6.84	125.10	121.00
1	I	229	PHE	CB-CG-CD1	-6.82	116.03	120.80
1	F	534	PRO	CB-CA-C	-6.81	94.97	112.00
1	D	16	ALA	C-N-CA	6.81	136.60	122.30
1	A	336	TYR	CA-C-N	-6.80	102.23	117.20
1	E	54	HIS	CA-CB-CG	-6.80	102.04	113.60
1	C	774	TYR	CB-CA-C	-6.79	96.82	110.40
1	G	143	THR	CB-CA-C	-6.79	93.27	111.60
1	G	695	PHE	CB-CG-CD1	-6.79	116.05	120.80
1	K	177	ASP	C-N-CA	6.76	138.61	121.70
7	1	9	LEU	CB-CA-C	-6.76	97.35	110.20
1	E	933	ARG	N-CA-CB	-6.75	98.44	110.60
1	G	773	HIS	C-N-CA	6.75	138.57	121.70
1	G	695	PHE	CB-CG-CD2	6.74	125.52	120.80
1	J	678	TRP	CB-CA-C	-6.74	96.93	110.40
1	H	277	TYR	CB-CG-CD2	-6.73	116.96	121.00
1	E	787	TYR	CB-CG-CD1	-6.72	116.97	121.00
1	E	54	HIS	N-CA-C	6.72	129.15	111.00
7	3	5	ASN	CB-CA-C	-6.72	96.97	110.40
1	K	241	LYS	CB-CA-C	6.71	123.81	110.40
1	L	909	PRO	CB-CA-C	-6.69	95.27	112.00
1	K	726	ASP	CA-C-N	-6.69	102.48	117.20
2	N	261	GLN	CB-CA-C	6.69	123.78	110.40
1	G	192	THR	CA-C-N	-6.69	102.49	117.20
1	G	38	TYR	CB-CG-CD1	-6.68	116.99	121.00
1	D	678	TRP	CB-CA-C	-6.67	97.07	110.40
1	F	910	MET	CB-CA-C	6.66	123.72	110.40
1	I	177	ASP	C-N-CA	-6.64	105.10	121.70
1	J	474	TYR	CB-CG-CD1	-6.63	117.02	121.00
1	G	775	ASN	CA-CB-CG	6.63	127.98	113.40
1	G	775	ASN	N-CA-CB	-6.63	98.67	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	E	921	GLU	CB-CA-C	-6.62	97.17	110.40
1	B	429	THR	CA-C-N	6.62	131.75	117.20
1	F	723	ILE	CB-CA-C	-6.61	98.38	111.60
1	F	734	ASN	O-C-N	-6.61	112.13	122.70
1	H	193	PHE	N-CA-C	-6.60	93.17	111.00
1	E	276	GLU	CB-CA-C	6.59	123.59	110.40
7	7	13	HIS	CA-CB-CG	-6.59	102.40	113.60
1	C	253	ASP	CB-CA-C	6.58	123.56	110.40
1	B	91	ASN	CB-CA-C	-6.58	97.24	110.40
1	F	831	TYR	CB-CG-CD2	6.58	124.95	121.00
5	R	4	THR	CA-C-N	-6.58	103.04	116.20
1	C	405	ASP	CB-CA-C	-6.56	97.28	110.40
1	F	741	ASN	N-CA-CB	6.55	122.39	110.60
1	G	725	PHE	CB-CG-CD2	-6.55	116.22	120.80
1	D	295	THR	CA-CB-CG2	6.54	121.56	112.40
1	A	336	TYR	C-N-CA	6.53	138.03	121.70
4	M	385	ASN	CB-CA-C	-6.53	97.34	110.40
1	F	905	PHE	CB-CA-C	-6.53	97.34	110.40
1	I	229	PHE	CB-CG-CD2	6.52	125.37	120.80
1	H	71	VAL	CA-CB-CG1	-6.51	101.14	110.90
1	H	432	ASN	N-CA-CB	-6.50	98.89	110.60
1	B	38	TYR	CB-CG-CD1	-6.49	117.10	121.00
1	A	336	TYR	CB-CG-CD1	6.49	124.89	121.00
1	I	255	ASP	N-CA-C	6.49	128.53	111.00
1	B	941	LEU	CB-CA-C	-6.49	97.88	110.20
1	J	921	GLU	CB-CA-C	-6.48	97.45	110.40
1	B	812	LYS	CA-C-N	-6.48	102.95	117.20
1	K	10	TRP	CA-CB-CG	6.47	126.00	113.70
1	G	680	PHE	CB-CA-C	-6.47	97.45	110.40
1	J	731	TRP	CA-CB-CG	-6.47	101.40	113.70
4	M	244	GLY	C-N-CA	-6.47	105.52	121.70
1	K	865	LEU	CB-CA-C	-6.46	97.92	110.20
7	4	24	GLU	CB-CA-C	-6.46	97.48	110.40
1	D	432	ASN	CA-CB-CG	-6.46	99.20	113.40
1	L	417	THR	CA-C-N	-6.46	103.29	116.20
1	D	774	TYR	CB-CG-CD1	-6.45	117.13	121.00
1	F	437	GLU	CB-CA-C	-6.45	97.50	110.40
1	G	700	VAL	CB-CA-C	-6.45	99.15	111.40
1	A	567	PHE	CB-CG-CD2	6.44	125.31	120.80
1	E	718	PHE	CB-CG-CD2	-6.44	116.29	120.80
1	B	389	ASP	CB-CA-C	-6.44	97.53	110.40
1	G	72	ASP	CA-CB-CG	-6.43	99.25	113.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	Q	130	GLN	CB-CA-C	6.43	123.26	110.40
7	6	24	GLU	C-N-CA	-6.42	105.65	121.70
1	I	54	HIS	N-CA-C	6.42	128.32	111.00
1	H	926	VAL	CB-CA-C	-6.41	99.22	111.40
1	F	321	PRO	N-CA-CB	6.41	110.99	103.30
4	M	385	ASN	CA-C-N	6.41	135.05	117.10
1	A	18	GLN	N-CA-CB	-6.41	99.07	110.60
1	A	74	GLU	CB-CA-C	-6.41	97.59	110.40
1	B	323	TYR	CB-CG-CD1	-6.41	117.16	121.00
1	J	741	ASN	CB-CA-C	6.41	123.21	110.40
5	Q	37	ASP	CA-CB-CG	-6.40	99.32	113.40
1	H	38	TYR	CB-CG-CD2	6.40	124.84	121.00
1	F	731	TRP	CA-CB-CG	-6.39	101.56	113.70
4	M	251	TYR	CB-CG-CD1	-6.39	117.17	121.00
1	G	415	ASN	N-CA-C	-6.38	93.76	111.00
1	A	263	VAL	CB-CA-C	6.38	123.53	111.40
1	E	831	TYR	CB-CG-CD1	6.38	124.83	121.00
7	3	20	GLY	N-CA-C	-6.38	97.16	113.10
1	L	464	LEU	CA-CB-CG	6.38	129.97	115.30
5	R	89	PRO	CB-CA-C	-6.36	96.10	112.00
1	A	922	VAL	CB-CA-C	-6.36	99.32	111.40
1	G	182	ASN	CB-CA-C	-6.36	97.69	110.40
1	K	79	LEU	CB-CA-C	-6.36	98.12	110.20
1	C	199	VAL	CB-CA-C	-6.35	99.33	111.40
1	K	229	PHE	CB-CG-CD2	6.35	125.24	120.80
5	Q	36	VAL	N-CA-C	-6.34	93.87	111.00
1	D	922	VAL	CB-CA-C	-6.34	99.35	111.40
7	9	16	ARG	CB-CA-C	6.34	123.08	110.40
1	K	178	GLU	N-CA-C	6.33	128.10	111.00
1	E	178	GLU	N-CA-C	6.32	128.05	111.00
1	I	599	ASN	CA-CB-CG	-6.30	99.54	113.40
1	E	774	TYR	CA-CB-CG	-6.29	101.44	113.40
1	B	203	ASN	N-CA-C	6.29	127.98	111.00
1	G	940	TYR	CB-CG-CD1	-6.28	117.23	121.00
1	A	754	TYR	CB-CG-CD1	-6.28	117.23	121.00
1	E	380	TYR	CB-CA-C	-6.27	97.86	110.40
1	G	834	PRO	N-CA-CB	6.27	110.82	103.30
7	9	5	ASN	N-CA-C	6.26	127.91	111.00
1	F	555	TYR	CB-CG-CD1	-6.26	117.24	121.00
1	L	689	PRO	N-CA-CB	6.25	110.80	103.30
7	6	5	ASN	N-CA-C	6.25	127.88	111.00
1	G	849	PRO	CB-CA-C	-6.25	96.38	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	C	864	PHE	CB-CG-CD1	-6.25	116.43	120.80
1	H	367	TYR	CB-CG-CD1	6.24	124.75	121.00
1	F	489	PRO	CB-CA-C	-6.24	96.41	112.00
5	P	51	TYR	CB-CG-CD1	6.23	124.74	121.00
1	H	430	ASN	CB-CA-C	-6.23	97.93	110.40
1	I	563	PRO	CB-CA-C	-6.23	96.44	112.00
1	D	720	LYS	CA-CB-CG	6.22	127.09	113.40
1	C	566	PHE	CB-CG-CD2	-6.22	116.45	120.80
1	E	773	HIS	C-N-CA	6.22	137.24	121.70
1	A	718	PHE	CB-CA-C	-6.21	97.97	110.40
1	B	537	HIS	CB-CA-C	6.20	122.80	110.40
1	K	405	ASP	CB-CA-C	-6.20	98.00	110.40
1	K	726	ASP	C-N-CA	6.20	137.19	121.70
1	B	821	PHE	CB-CG-CD1	6.19	125.14	120.80
1	B	576	PRO	N-CA-C	6.17	128.14	112.10
1	G	381	PHE	CB-CG-CD2	6.17	125.12	120.80
1	E	8	PRO	CA-C-N	6.16	130.75	117.20
1	A	604	ASP	CA-CB-CG	-6.16	99.86	113.40
3	O	9	ASP	CB-CA-C	6.15	122.70	110.40
1	B	434	GLY	N-CA-C	-6.15	97.72	113.10
1	C	681	THR	CB-CA-C	-6.15	95.00	111.60
1	L	115	PRO	CA-C-N	6.15	130.73	117.20
1	A	603	VAL	CB-CA-C	6.15	123.08	111.40
1	E	453	CYS	CA-CB-SG	-6.14	102.95	114.00
1	F	718	PHE	CB-CG-CD1	6.13	125.09	120.80
1	B	203	ASN	CA-CB-CG	-6.12	99.93	113.40
1	H	348	GLN	CB-CA-C	6.11	122.63	110.40
1	B	583	TRP	CB-CA-C	6.11	122.62	110.40
1	C	610	PHE	CB-CG-CD1	-6.11	116.52	120.80
1	H	277	TYR	CB-CA-C	-6.11	98.18	110.40
1	H	748	SER	N-CA-C	6.11	127.50	111.00
1	E	335	TYR	CB-CG-CD2	6.11	124.66	121.00
1	F	79	LEU	CB-CA-C	-6.11	98.60	110.20
1	E	793	SER	C-N-CA	6.10	136.96	121.70
1	F	672	TRP	CA-CB-CG	-6.10	102.10	113.70
2	N	150	SER	N-CA-C	6.10	127.47	111.00
1	B	303	THR	O-C-N	-6.10	112.94	122.70
1	L	689	PRO	CB-CA-C	-6.10	96.75	112.00
1	G	255	ASP	N-CA-CB	-6.10	99.63	110.60
1	J	515	ASP	CA-C-N	-6.09	103.81	117.20
1	H	348	GLN	N-CA-CB	-6.08	99.65	110.60
1	I	39	PHE	CB-CG-CD1	6.08	125.06	120.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	L	821	PHE	CB-CG-CD1	6.08	125.06	120.80
1	K	434	GLY	N-CA-C	-6.07	97.92	113.10
1	L	115	PRO	CB-CA-C	-6.07	96.83	112.00
5	S	15	PRO	CA-C-N	-6.07	103.84	117.20
1	A	449	GLN	CB-CA-C	-6.06	98.27	110.40
1	J	352	LEU	N-CA-C	-6.06	94.63	111.00
1	B	721	VAL	CB-CA-C	-6.06	99.89	111.40
1	F	718	PHE	CB-CA-C	-6.06	98.28	110.40
1	A	349	ALA	N-CA-C	-6.05	94.65	111.00
1	B	326	PHE	CB-CG-CD2	6.05	125.04	120.80
1	H	616	TYR	CB-CG-CD2	-6.05	117.37	121.00
1	D	66	LEU	CB-CG-CD2	-6.05	100.72	111.00
1	C	232	PRO	CB-CA-C	-6.05	96.88	112.00
1	B	115	PRO	N-CA-C	6.04	127.81	112.10
1	K	10	TRP	CB-CG-CD2	-6.04	118.75	126.60
1	C	887	ASP	CB-CA-C	-6.04	98.32	110.40
4	M	299	LEU	CA-C-N	-6.03	103.93	117.20
1	E	323	TYR	CB-CG-CD2	-6.02	117.39	121.00
1	E	405	ASP	CB-CA-C	-6.02	98.37	110.40
1	H	731	TRP	N-CA-CB	6.01	121.42	110.60
1	L	54	HIS	CB-CA-C	-6.01	98.37	110.40
1	F	707	TYR	CB-CG-CD2	-6.01	117.39	121.00
1	I	611	ASP	CB-CA-C	6.01	122.42	110.40
1	H	861	GLN	CB-CA-C	-6.01	98.38	110.40
1	J	79	LEU	CB-CA-C	-6.00	98.80	110.20
7	2	18	PHE	CA-CB-CG	-6.00	99.51	113.90
4	M	386	PRO	CB-CA-C	-5.99	97.02	112.00
1	D	915	LEU	CB-CA-C	-5.99	98.83	110.20
1	I	446	ILE	CB-CA-C	-5.98	99.64	111.60
5	P	20	ARG	N-CA-C	-5.98	94.86	111.00
1	D	563	PRO	CB-CA-C	-5.98	97.06	112.00
5	P	13	PHE	CB-CA-C	-5.97	98.45	110.40
1	J	226	TYR	CB-CG-CD2	5.97	124.58	121.00
1	D	66	LEU	CB-CG-CD1	5.97	121.15	111.00
1	E	204	TRP	N-CA-CB	5.97	121.34	110.60
1	H	750	ASP	CA-CB-CG	-5.96	100.28	113.40
1	J	74	GLU	CB-CG-CD	-5.96	98.10	114.20
7	6	18	PHE	CA-CB-CG	-5.96	99.59	113.90
1	H	177	ASP	C-N-CA	5.95	136.57	121.70
1	L	8	PRO	CB-CA-C	-5.94	97.15	112.00
1	B	218	LYS	N-CA-C	5.93	127.02	111.00
1	K	672	TRP	CB-CA-C	-5.93	98.54	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	5	15	THR	N-CA-CB	5.93	121.56	110.30
7	3	19	MET	CA-C-N	-5.92	104.35	116.20
1	B	207	ASN	N-CA-C	5.92	126.98	111.00
6	V	75	PRO	CB-CA-C	-5.92	97.21	112.00
1	F	331	VAL	C-N-CA	5.91	134.72	122.30
4	M	384	LEU	CA-C-N	5.91	130.21	117.20
5	P	62	THR	CB-CA-C	-5.91	95.64	111.60
1	G	419	THR	C-N-CA	5.91	136.47	121.70
1	I	658	ALA	C-N-CA	5.91	136.46	121.70
1	H	280	ASP	CA-CB-CG	-5.90	100.42	113.40
1	J	655	PRO	CB-CA-C	-5.90	97.25	112.00
1	F	812	LYS	CB-CA-C	-5.89	98.61	110.40
1	K	919	LEU	CA-CB-CG	5.89	128.85	115.30
1	F	940	TYR	CB-CG-CD1	-5.89	117.47	121.00
1	L	611	ASP	CB-CA-C	5.89	122.17	110.40
6	V	201	PHE	CB-CG-CD2	5.89	124.92	120.80
1	A	716	HIS	CA-CB-CG	-5.88	103.60	113.60
1	E	813	ASP	CA-CB-CG	-5.88	100.47	113.40
1	F	823	HIS	CB-CA-C	-5.87	98.65	110.40
1	B	2	ALA	CA-C-N	-5.87	104.29	117.20
1	B	309	GLU	N-CA-C	5.87	126.84	111.00
1	E	718	PHE	CB-CG-CD1	5.87	124.91	120.80
7	6	4	ILE	CB-CA-C	5.87	123.34	111.60
1	J	475	SER	C-N-CA	-5.87	107.04	121.70
1	K	792	TYR	CB-CG-CD1	-5.87	117.48	121.00
1	G	193	PHE	N-CA-C	-5.86	95.17	111.00
1	F	101	PHE	CB-CA-C	-5.86	98.67	110.40
1	B	438	SER	CB-CA-C	5.86	121.23	110.10
1	G	940	TYR	CB-CA-C	-5.86	98.68	110.40
1	D	848	TYR	CB-CG-CD2	5.85	124.51	121.00
7	4	5	ASN	CB-CA-C	-5.85	98.70	110.40
1	D	713	TYR	CA-CB-CG	-5.84	102.30	113.40
5	R	89	PRO	N-CA-CB	5.84	110.31	103.30
1	B	583	TRP	N-CA-CB	-5.84	100.09	110.60
1	B	442	LYS	CB-CA-C	-5.83	98.73	110.40
1	D	753	GLY	N-CA-C	5.83	127.68	113.10
1	C	518	ILE	CA-C-N	-5.83	104.38	117.20
7	3	24	GLU	CB-CA-C	-5.82	98.75	110.40
1	D	689	PRO	CB-CA-C	-5.82	97.46	112.00
1	K	824	ASN	CA-CB-CG	-5.82	100.61	113.40
1	L	698	TYR	CB-CG-CD1	-5.82	117.51	121.00
5	Q	51	TYR	CB-CG-CD1	5.82	124.49	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	L	798	PHE	CB-CA-C	-5.81	98.77	110.40
1	E	785	GLU	C-N-CA	5.81	134.51	122.30
1	G	275	GLU	C-N-CA	-5.81	107.17	121.70
1	A	726	ASP	CB-CA-C	-5.81	98.78	110.40
1	E	276	GLU	N-CA-CB	-5.81	100.14	110.60
1	I	491	ASN	C-N-CA	5.81	136.22	121.70
1	B	942	ARG	CB-CA-C	5.81	122.02	110.40
5	S	40	PRO	CB-CA-C	-5.81	97.48	112.00
7	7	20	GLY	N-CA-C	-5.81	98.58	113.10
1	C	831	TYR	CB-CG-CD1	-5.80	117.52	121.00
1	A	449	GLN	N-CA-C	5.80	126.66	111.00
1	E	664	PRO	CB-CA-C	-5.80	97.50	112.00
1	H	38	TYR	CB-CG-CD1	-5.80	117.52	121.00
1	J	254	LEU	CA-CB-CG	5.80	128.63	115.30
7	4	5	ASN	N-CA-C	5.80	126.65	111.00
1	F	191	LYS	CB-CA-C	-5.80	98.81	110.40
1	F	567	PHE	CB-CG-CD1	-5.79	116.75	120.80
1	B	376	ASP	CB-CA-C	-5.79	98.83	110.40
1	F	689	PRO	CB-CA-C	-5.78	97.54	112.00
1	C	489	PRO	CB-CA-C	-5.78	97.55	112.00
1	C	894	TYR	CB-CA-C	-5.78	98.84	110.40
1	C	224	PRO	N-CA-CB	5.78	110.23	103.30
1	H	911	ASP	CB-CA-C	-5.77	98.85	110.40
1	B	751	GLY	CA-C-N	-5.76	104.52	117.20
1	E	831	TYR	CB-CG-CD2	-5.76	117.54	121.00
1	J	277	TYR	CB-CG-CD1	-5.76	117.54	121.00
1	I	116	TYR	CA-CB-CG	-5.76	102.45	113.40
7	8	22	TRP	C-N-CA	5.76	136.09	121.70
1	B	608	VAL	CB-CA-C	-5.76	100.46	111.40
7	4	18	PHE	N-CA-CB	5.75	120.96	110.60
1	A	262	ASP	CA-CB-CG	5.75	126.05	113.40
1	G	446	ILE	CB-CA-C	5.75	123.09	111.60
1	C	811	TYR	CB-CG-CD2	-5.74	117.55	121.00
1	H	53	THR	CB-CA-C	-5.74	96.09	111.60
1	I	183	GLY	N-CA-C	-5.74	98.74	113.10
1	L	725	PHE	CA-CB-CG	-5.74	100.11	113.90
1	H	423	TYR	CB-CA-C	-5.74	98.92	110.40
1	H	431	GLY	C-N-CA	5.74	136.05	121.70
1	K	476	ASN	C-N-CA	-5.74	107.35	121.70
5	P	41	VAL	CB-CA-C	5.74	122.31	111.40
6	U	106	VAL	CB-CA-C	-5.74	100.50	111.40
1	G	670	ARG	CA-C-N	-5.73	104.59	117.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	S	96	ILE	N-CA-C	-5.73	95.53	111.00
7	1	28	SER	N-CA-C	5.73	126.47	111.00
1	G	894	TYR	CB-CG-CD2	-5.72	117.57	121.00
2	N	226	TYR	CB-CG-CD1	5.72	124.43	121.00
1	C	115	PRO	N-CA-C	5.72	126.96	112.10
1	C	811	TYR	CB-CG-CD1	5.71	124.43	121.00
1	K	224	PRO	N-CA-CB	5.71	110.15	103.30
1	I	130	PRO	CB-CA-C	-5.71	97.73	112.00
1	I	101	PHE	CB-CA-C	-5.71	98.99	110.40
1	K	60	ARG	CA-CB-CG	5.71	125.95	113.40
5	P	67	ALA	C-N-CA	-5.71	107.44	121.70
4	M	299	LEU	CA-CB-CG	5.71	128.42	115.30
1	L	707	TYR	CB-CG-CD2	5.70	124.42	121.00
1	D	758	GLN	CB-CA-C	-5.70	99.00	110.40
1	I	697	PRO	CB-CA-C	-5.69	97.77	112.00
1	L	313	VAL	CB-CA-C	-5.69	100.60	111.40
1	G	919	LEU	CB-CA-C	5.68	121.00	110.20
1	C	620	PHE	CB-CA-C	5.68	121.76	110.40
1	I	655	PRO	CB-CA-C	-5.68	97.80	112.00
1	A	153	VAL	N-CA-C	-5.68	95.67	111.00
1	F	498	THR	CB-CA-C	-5.67	96.28	111.60
5	P	7	ALA	C-N-CA	-5.67	107.52	121.70
1	K	183	GLY	N-CA-C	-5.67	98.93	113.10
4	M	220	SER	CA-C-N	-5.67	104.73	117.20
1	A	63	ARG	N-CA-C	-5.67	95.70	111.00
1	I	490	ALA	N-CA-C	5.67	126.30	111.00
1	A	732	PRO	N-CA-CB	5.66	110.09	103.30
4	M	215	PRO	N-CA-CB	5.66	110.09	103.30
7	1	18	PHE	N-CA-C	5.65	126.26	111.00
1	F	280	ASP	N-CA-C	5.65	126.25	111.00
1	D	17	GLY	N-CA-C	5.65	127.22	113.10
7	5	19	MET	CB-CA-C	5.65	121.69	110.40
1	E	794	PHE	CB-CG-CD2	5.64	124.75	120.80
1	J	511	PRO	N-CA-CB	5.64	110.07	103.30
7	3	18	PHE	CB-CG-CD1	-5.64	116.85	120.80
1	H	157	PHE	CB-CG-CD2	-5.64	116.86	120.80
1	C	894	TYR	CB-CG-CD1	-5.63	117.62	121.00
1	E	616	TYR	CB-CA-C	-5.63	99.14	110.40
1	H	326	PHE	N-CA-C	-5.63	95.81	111.00
1	B	45	PHE	CB-CA-C	-5.62	99.15	110.40
5	R	35	THR	C-N-CA	-5.62	107.64	121.70
7	3	19	MET	C-N-CA	5.62	134.11	122.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	H	787	TYR	CB-CG-CD2	5.62	124.37	121.00
1	E	754	TYR	CB-CG-CD1	-5.62	117.63	121.00
1	A	921	GLU	CB-CA-C	-5.61	99.17	110.40
1	E	909	PRO	CB-CA-C	-5.61	97.97	112.00
1	A	718	PHE	CB-CG-CD1	-5.61	116.87	120.80
5	S	96	ILE	CB-CA-C	5.61	122.82	111.60
1	E	932	HIS	CB-CA-C	5.61	121.61	110.40
1	F	347	GLY	N-CA-C	-5.61	99.08	113.10
7	6	23	ASN	C-N-CA	5.60	135.70	121.70
1	E	533	ASN	N-CA-CB	-5.60	100.53	110.60
1	J	932	HIS	CA-CB-CG	-5.60	104.08	113.60
7	3	18	PHE	CB-CG-CD2	5.60	124.72	120.80
1	C	565	LYS	CB-CA-C	-5.59	99.21	110.40
1	J	604	ASP	CB-CA-C	-5.58	99.24	110.40
1	E	735	ASP	C-N-CA	5.58	135.64	121.70
1	K	675	PHE	CB-CG-CD1	-5.58	116.90	120.80
7	2	24	GLU	C-N-CA	-5.57	107.77	121.70
1	K	314	GLN	CB-CA-C	-5.57	99.26	110.40
4	M	295	LEU	CB-CA-C	-5.56	99.63	110.20
1	B	423	TYR	CB-CG-CD1	-5.56	117.67	121.00
4	M	215	PRO	N-CA-C	-5.56	97.65	112.10
1	C	751	GLY	C-N-CA	5.56	135.59	121.70
1	H	817	VAL	CB-CA-C	-5.56	100.84	111.40
1	D	831	TYR	CB-CG-CD2	-5.55	117.67	121.00
1	K	201	GLU	CA-CB-CG	5.55	125.61	113.40
1	C	192	THR	CA-C-N	-5.55	104.99	117.20
1	D	161	ALA	N-CA-C	5.55	125.98	111.00
1	F	450	ASN	N-CA-C	-5.55	96.02	111.00
1	J	197	PRO	N-CA-CB	5.55	109.96	103.30
1	F	17	GLY	N-CA-C	5.54	126.96	113.10
1	A	834	PRO	N-CA-CB	5.54	109.95	103.30
1	I	658	ALA	CA-C-N	-5.54	105.00	117.20
1	C	864	PHE	CB-CG-CD2	5.54	124.68	120.80
1	L	672	TRP	CA-CB-CG	-5.54	103.18	113.70
1	F	758	GLN	CB-CA-C	5.54	121.47	110.40
1	J	250	GLN	CB-CG-CD	-5.53	97.21	111.60
7	6	5	ASN	CB-CA-C	-5.53	99.33	110.40
1	A	190	ASP	N-CA-C	5.53	125.93	111.00
7	5	4	ILE	CB-CA-C	5.53	122.66	111.60
1	J	449	GLN	N-CA-C	5.53	125.92	111.00
1	J	187	ILE	CB-CA-C	-5.52	100.55	111.60
1	G	725	PHE	CB-CG-CD1	5.52	124.66	120.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	P	45	ASN	CB-CA-C	5.52	121.43	110.40
1	K	61	SER	CB-CA-C	-5.51	99.62	110.10
1	I	360	ASP	CA-C-N	5.51	129.31	117.20
5	P	13	PHE	CB-CG-CD1	5.51	124.65	120.80
2	N	156	TYR	CB-CA-C	-5.50	99.39	110.40
1	C	74	GLU	CB-CG-CD	-5.50	99.35	114.20
1	E	567	PHE	CB-CG-CD1	-5.50	116.95	120.80
1	F	731	TRP	CB-CA-C	-5.50	99.40	110.40
1	K	792	TYR	CB-CG-CD2	5.50	124.30	121.00
1	J	848	TYR	CB-CG-CD1	-5.49	117.70	121.00
1	D	608	VAL	N-CA-C	5.49	125.83	111.00
1	E	544	ARG	CA-CB-CG	-5.49	101.32	113.40
1	F	194	GLN	CB-CA-C	5.49	121.38	110.40
1	A	437	GLU	N-CA-C	5.49	125.81	111.00
1	E	544	ARG	O-C-N	5.49	131.48	122.70
1	H	787	TYR	CB-CG-CD1	-5.49	117.71	121.00
1	J	154	THR	N-CA-CB	-5.49	99.88	110.30
1	F	724	MET	C-N-CA	-5.48	108.00	121.70
1	I	39	PHE	CB-CA-C	5.48	121.36	110.40
5	P	67	ALA	CA-C-O	-5.48	108.59	120.10
1	B	442	LYS	N-CA-C	5.48	125.79	111.00
1	I	563	PRO	N-CA-CB	5.48	109.88	103.30
1	F	771	LEU	CA-CB-CG	5.48	127.89	115.30
1	K	608	VAL	CB-CA-C	-5.48	101.00	111.40
7	4	4	ILE	C-N-CA	5.48	135.39	121.70
1	D	393	PRO	CB-CA-C	-5.47	98.32	112.00
1	L	836	MET	C-N-CA	5.47	135.38	121.70
1	B	116	TYR	CB-CG-CD2	5.47	124.28	121.00
1	F	932	HIS	CA-CB-CG	-5.47	104.30	113.60
1	I	299	TYR	CB-CA-C	-5.47	99.47	110.40
1	L	181	GLU	CB-CA-C	-5.47	99.46	110.40
1	A	204	TRP	CG-CD2-CE3	5.47	138.82	133.90
1	K	675	PHE	CB-CA-C	-5.47	99.47	110.40
1	H	229	PHE	CB-CG-CD1	-5.46	116.98	120.80
1	F	721	VAL	CB-CA-C	-5.46	101.03	111.40
1	A	703	GLY	N-CA-C	-5.45	99.47	113.10
1	B	899	HIS	CB-CA-C	-5.45	99.49	110.40
1	D	199	VAL	CB-CA-C	-5.45	101.04	111.40
7	4	9	LEU	N-CA-C	5.45	125.72	111.00
1	E	48	PRO	CB-CA-C	-5.45	98.37	112.00
1	J	538	PRO	N-CA-CB	5.45	109.84	103.30
1	B	660	ALA	C-N-CA	-5.45	108.09	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	K	193	PHE	CB-CA-C	5.44	121.29	110.40
7	3	24	GLU	N-CA-C	5.44	125.70	111.00
1	L	834	PRO	N-CA-CB	5.44	109.83	103.30
5	Q	51	TYR	CB-CG-CD2	-5.44	117.73	121.00
7	7	22	TRP	CB-CA-C	5.44	121.28	110.40
1	C	480	TYR	CB-CG-CD1	-5.44	117.74	121.00
1	G	749	VAL	CB-CA-C	-5.44	101.07	111.40
1	K	130	PRO	CB-CA-C	-5.43	98.41	112.00
1	E	436	GLU	N-CA-C	5.43	125.67	111.00
1	I	347	GLY	N-CA-C	-5.43	99.52	113.10
1	B	537	HIS	N-CA-CB	-5.43	100.82	110.60
1	K	583	TRP	CB-CA-C	5.43	121.26	110.40
1	H	821	PHE	CB-CG-CD2	-5.43	117.00	120.80
1	A	279	ALA	C-N-CA	5.42	135.26	121.70
1	F	320	ARG	CB-CA-C	-5.42	99.55	110.40
1	H	326	PHE	C-N-CA	-5.42	108.15	121.70
1	H	896	ASN	CB-CA-C	-5.42	99.56	110.40
2	N	327	GLU	C-N-CA	5.42	135.25	121.70
1	C	894	TYR	N-CA-C	5.42	125.63	111.00
1	K	10	TRP	CB-CG-CD1	5.42	134.04	127.00
1	C	84	PHE	CB-CG-CD2	-5.41	117.01	120.80
1	E	321	PRO	N-CA-CB	5.41	109.79	103.30
1	B	423	TYR	CB-CG-CD2	5.41	124.24	121.00
1	K	860	THR	CB-CA-C	-5.41	97.00	111.60
1	H	683	LEU	CB-CA-C	-5.40	99.93	110.20
1	I	166	ASN	CB-CA-C	5.40	121.20	110.40
1	K	75	ALA	C-N-CA	-5.40	108.20	121.70
1	L	310	ILE	CA-CB-CG1	-5.40	100.74	111.00
7	6	17	PRO	C-N-CA	5.40	135.20	121.70
1	C	846	PHE	N-CA-C	5.40	125.58	111.00
1	D	718	PHE	CB-CG-CD1	-5.39	117.02	120.80
1	E	534	PRO	CB-CA-C	-5.39	98.51	112.00
4	M	299	LEU	CB-CA-C	-5.39	99.95	110.20
6	V	75	PRO	N-CA-CB	5.39	109.77	103.30
1	F	115	PRO	CB-CA-C	-5.39	98.52	112.00
1	J	579	TYR	CB-CG-CD1	-5.39	117.77	121.00
1	F	331	VAL	CA-C-N	-5.39	105.42	116.20
7	2	18	PHE	CB-CG-CD1	-5.39	117.03	120.80
1	A	170	GLN	C-N-CA	5.38	133.61	122.30
1	H	911	ASP	N-CA-C	5.38	125.53	111.00
1	C	737	LEU	CB-CA-C	5.38	120.42	110.20
1	F	749	VAL	CB-CA-C	-5.38	101.17	111.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	K	244	PRO	N-CA-CB	5.37	109.75	103.30
1	E	328	ASP	N-CA-CB	-5.37	100.93	110.60
5	R	20	ARG	N-CA-CB	5.37	120.27	110.60
1	F	558	PHE	CB-CA-C	-5.37	99.66	110.40
1	G	686	LYS	C-N-CA	-5.37	108.28	121.70
4	M	184	ASP	CB-CA-C	5.37	121.13	110.40
1	B	794	PHE	CB-CG-CD2	5.37	124.56	120.80
1	K	581	TYR	CA-CB-CG	5.37	123.59	113.40
1	H	336	TYR	CB-CA-C	-5.36	99.68	110.40
5	R	17	LEU	CB-CA-C	5.36	120.38	110.20
1	H	894	TYR	CB-CA-C	5.36	121.11	110.40
1	B	306	ASN	N-CA-CB	-5.35	100.97	110.60
1	C	720	LYS	CB-CA-C	-5.35	99.70	110.40
1	B	434	GLY	CA-C-N	-5.35	105.43	117.20
1	E	178	GLU	N-CA-CB	-5.35	100.98	110.60
1	L	443	ASP	N-CA-C	5.34	125.43	111.00
1	A	784	PRO	N-CA-CB	5.34	109.71	103.30
1	B	879	PHE	CB-CG-CD1	-5.34	117.06	120.80
1	F	258	PHE	CB-CA-C	-5.34	99.72	110.40
2	N	44	TYR	CB-CG-CD2	-5.34	117.80	121.00
1	L	821	PHE	N-CA-CB	-5.34	100.99	110.60
7	7	21	THR	CB-CA-C	-5.34	97.19	111.60
1	I	54	HIS	CB-CA-C	-5.33	99.74	110.40
1	C	729	VAL	CB-CA-C	-5.33	101.27	111.40
6	V	186	LEU	CA-CB-CG	-5.33	103.04	115.30
1	C	610	PHE	CB-CG-CD2	5.33	124.53	120.80
1	G	576	PRO	N-CA-CB	5.33	109.69	103.30
1	G	920	PHE	CB-CG-CD1	5.33	124.53	120.80
1	I	282	ILE	CB-CA-C	-5.33	100.95	111.60
1	K	854	THR	CB-CA-C	-5.33	97.22	111.60
1	A	754	TYR	CB-CG-CD2	5.33	124.19	121.00
1	F	394	ASP	CB-CA-C	-5.33	99.75	110.40
1	F	774	TYR	N-CA-C	-5.33	96.62	111.00
1	G	708	LEU	CA-CB-CG	5.32	127.53	115.30
1	G	849	PRO	N-CA-CB	5.32	109.68	103.30
1	L	920	PHE	CB-CG-CD2	5.32	124.52	120.80
7	4	8	SER	C-N-CA	5.32	134.99	121.70
1	G	630	LEU	N-CA-C	-5.32	96.65	111.00
1	B	192	THR	CA-C-N	-5.31	105.51	117.20
1	B	575	LEU	CB-CA-C	5.31	120.29	110.20
1	B	794	PHE	CB-CA-C	-5.31	99.79	110.40
1	F	837	ARG	CB-CA-C	-5.30	99.79	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	D	95	ASP	N-CA-CB	-5.30	101.06	110.60
1	C	563	PRO	CB-CA-C	-5.30	98.75	112.00
1	I	910	MET	N-CA-C	-5.30	96.69	111.00
1	C	534	PRO	CB-CA-C	-5.29	98.77	112.00
1	D	869	VAL	CB-CA-C	-5.29	101.36	111.40
1	K	842	TYR	CB-CG-CD1	5.29	124.17	121.00
1	B	662	ASN	CA-CB-CG	5.28	125.02	113.40
1	I	843	PRO	N-CA-CB	5.28	109.64	103.30
1	H	367	TYR	CB-CG-CD2	-5.28	117.83	121.00
7	5	15	THR	CB-CA-C	-5.28	97.34	111.60
1	C	695	PHE	CB-CA-C	-5.28	99.85	110.40
1	I	831	TYR	CB-CA-C	5.28	120.95	110.40
1	E	347	GLY	N-CA-C	-5.28	99.91	113.10
1	E	464	LEU	CA-CB-CG	5.27	127.42	115.30
1	K	15	ILE	CB-CA-C	-5.27	101.06	111.60
1	F	321	PRO	CB-CA-C	-5.27	98.84	112.00
1	G	545	TYR	CB-CG-CD1	-5.27	117.84	121.00
7	5	17	PRO	CB-CA-C	5.27	125.17	112.00
1	C	482	PRO	N-CA-C	-5.26	98.41	112.10
1	L	130	PRO	CB-CA-C	-5.26	98.84	112.00
1	L	183	GLY	N-CA-C	-5.26	99.94	113.10
5	Q	19	THR	C-N-CA	5.26	134.85	121.70
1	K	726	ASP	O-C-N	5.26	131.11	122.70
1	I	157	PHE	CA-CB-CG	-5.24	101.32	113.90
1	G	381	PHE	CB-CG-CD1	-5.24	117.13	120.80
1	C	809	ILE	CB-CA-C	-5.24	101.12	111.60
1	I	401	HIS	N-CA-C	-5.23	96.87	111.00
1	K	224	PRO	CB-CA-C	-5.23	98.92	112.00
1	C	678	TRP	CB-CA-C	-5.23	99.94	110.40
1	L	489	PRO	N-CA-CB	5.23	109.58	103.30
1	E	592	ILE	CB-CA-C	-5.23	101.14	111.60
2	N	414	GLU	CA-CB-CG	5.23	124.90	113.40
1	A	887	ASP	CA-CB-CG	5.22	124.90	113.40
1	F	740	PRO	N-CA-CB	5.22	109.57	103.30
1	L	701	TYR	C-N-CA	5.22	134.76	121.70
1	C	680	PHE	CB-CG-CD1	-5.22	117.15	120.80
1	G	718	PHE	CB-CA-C	-5.22	99.96	110.40
1	J	776	ILE	CB-CA-C	-5.22	101.17	111.60
5	R	20	ARG	N-CA-C	-5.21	96.92	111.00
1	G	731	TRP	CB-CA-C	5.21	120.82	110.40
1	L	837	ARG	CB-CA-C	-5.21	99.98	110.40
1	J	474	TYR	CB-CA-C	-5.21	99.99	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	E	258	PHE	CB-CA-C	-5.20	99.99	110.40
1	E	731	TRP	CG-CD2-CE3	5.20	138.58	133.90
5	P	51	TYR	CB-CG-CD2	-5.20	117.88	121.00
1	B	730	SER	N-CA-C	5.20	125.03	111.00
1	D	229	PHE	CB-CA-C	-5.20	100.01	110.40
7	5	25	ILE	CA-C-N	-5.20	105.81	116.20
1	G	70	PRO	CB-CA-C	-5.19	99.03	112.00
1	L	115	PRO	N-CA-CB	5.19	109.53	103.30
1	D	76	THR	N-CA-C	-5.18	97.01	111.00
1	J	336	TYR	C-N-CA	5.18	134.66	121.70
4	M	251	TYR	CB-CG-CD2	5.18	124.11	121.00
5	Q	9	GLU	CA-C-O	5.18	130.97	120.10
7	2	21	THR	N-CA-C	-5.18	97.02	111.00
7	4	19	MET	N-CA-C	-5.18	97.02	111.00
4	M	135	LEU	CA-CB-CG	5.18	127.20	115.30
7	4	23	ASN	N-CA-C	5.18	124.97	111.00
5	S	40	PRO	N-CA-CB	5.17	109.51	103.30
1	A	458	TYR	CB-CG-CD2	-5.17	117.90	121.00
1	E	615	LEU	CB-CA-C	5.17	120.03	110.20
1	H	177	ASP	CA-CB-CG	-5.17	102.03	113.40
1	H	698	TYR	CA-CB-CG	-5.17	103.58	113.40
1	J	279	ALA	N-CA-C	5.17	124.95	111.00
1	F	489	PRO	N-CA-CB	5.17	109.50	103.30
1	I	314	GLN	CB-CA-C	-5.16	100.07	110.40
1	G	920	PHE	CB-CG-CD2	-5.16	117.19	120.80
1	B	402	GLY	CA-C-N	-5.16	105.84	117.20
1	C	845	ASN	N-CA-C	5.16	124.93	111.00
1	H	792	TYR	CB-CG-CD2	5.16	124.10	121.00
1	H	613	VAL	CB-CA-C	-5.15	101.61	111.40
1	K	246	ASN	CB-CA-C	-5.15	100.10	110.40
1	E	195	PRO	CA-N-CD	5.15	118.91	111.70
1	G	236	LYS	CB-CA-C	-5.15	100.10	110.40
1	I	280	ASP	C-N-CA	5.15	134.58	121.70
1	C	117	SER	CA-C-N	-5.15	105.91	116.20
1	J	716	HIS	CA-CB-CG	-5.14	104.86	113.60
7	2	22	TRP	CA-CB-CG	5.14	123.48	113.70
1	B	845	ASN	N-CA-C	5.14	124.88	111.00
1	F	555	TYR	CB-CA-C	-5.14	100.11	110.40
1	H	792	TYR	CB-CG-CD1	-5.14	117.91	121.00
1	C	446	ILE	CA-C-N	-5.14	105.89	117.20
5	S	15	PRO	O-C-N	5.14	130.92	122.70
1	E	419	THR	CB-CA-C	-5.13	97.75	111.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	336	TYR	O-C-N	5.13	130.91	122.70
1	E	20	ALA	N-CA-C	-5.13	97.15	111.00
1	D	426	VAL	CB-CA-C	-5.13	101.66	111.40
1	G	695	PHE	CA-C-N	-5.13	105.92	117.20
1	I	178	GLU	CB-CA-C	-5.13	100.15	110.40
2	N	456	PRO	N-CA-CB	5.13	109.45	103.30
1	B	919	LEU	CB-CA-C	-5.12	100.46	110.20
2	N	149	LEU	C-N-CA	5.12	134.50	121.70
1	F	862	LYS	CB-CA-C	-5.12	100.16	110.40
1	A	188	TYR	C-N-CA	-5.12	108.90	121.70
1	E	940	TYR	CB-CG-CD1	-5.12	117.93	121.00
5	R	41	VAL	CB-CA-C	-5.12	101.68	111.40
1	H	277	TYR	CB-CG-CD1	5.12	124.07	121.00
1	E	451	GLN	CA-CB-CG	-5.11	102.15	113.40
1	I	610	PHE	CB-CG-CD1	-5.11	117.22	120.80
1	J	808	GLU	CB-CA-C	-5.11	100.18	110.40
1	B	694	GLY	N-CA-C	5.11	125.87	113.10
1	A	750	ASP	CA-C-N	-5.10	106.00	116.20
1	H	442	LYS	N-CA-CB	-5.10	101.41	110.60
1	J	55	ASP	CB-CA-C	-5.10	100.20	110.40
1	G	41	LEU	CB-CA-C	-5.10	100.51	110.20
5	R	8	PHE	CB-CG-CD1	-5.10	117.23	120.80
1	F	361	ARG	C-N-CA	5.09	134.44	121.70
5	P	13	PHE	N-CA-C	5.09	124.76	111.00
7	3	5	ASN	N-CA-C	5.09	124.75	111.00
1	F	726	ASP	CA-C-N	-5.09	106.00	117.20
1	E	36	ASP	CA-CB-CG	-5.09	102.20	113.40
1	I	439	GLU	C-N-CA	5.08	134.41	121.70
1	B	718	PHE	CB-CG-CD1	-5.08	117.25	120.80
1	E	787	TYR	CB-CG-CD2	5.08	124.05	121.00
5	R	81	TYR	CB-CA-C	5.08	120.56	110.40
1	I	360	ASP	O-C-N	-5.08	114.58	122.70
1	J	157	PHE	CA-C-N	-5.08	106.05	116.20
7	2	11	PRO	N-CA-CB	5.08	109.39	103.30
1	A	400	ASN	CA-CB-CG	5.08	124.56	113.40
1	C	712	PHE	CB-CG-CD1	-5.08	117.25	120.80
1	C	809	ILE	C-N-CA	-5.08	109.01	121.70
1	F	806	VAL	CB-CA-C	-5.07	101.76	111.40
5	Q	8	PHE	CB-CA-C	5.07	120.54	110.40
1	K	447	SER	CA-C-N	-5.07	106.05	117.20
1	I	530	ASP	C-N-CA	-5.07	109.03	121.70
1	G	446	ILE	N-CA-C	-5.06	97.33	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	C	848	TYR	CB-CG-CD1	-5.06	117.96	121.00
1	L	762	THR	CB-CA-C	-5.06	97.94	111.60
1	C	834	PRO	C-N-CA	-5.06	109.06	121.70
1	J	882	MET	C-N-CA	5.06	132.92	122.30
1	C	256	ILE	N-CA-C	-5.05	97.36	111.00
1	D	740	PRO	N-CA-C	5.05	125.22	112.10
5	S	9	GLU	N-CA-C	5.05	124.63	111.00
1	F	558	PHE	CB-CG-CD2	-5.04	117.27	120.80
5	R	52	ALA	C-N-CA	-5.04	109.10	121.70
1	E	614	ASN	N-CA-C	-5.04	97.39	111.00
1	L	255	ASP	CB-CA-C	-5.04	100.33	110.40
1	B	794	PHE	CB-CG-CD1	-5.04	117.28	120.80
1	D	762	THR	CA-CB-OG1	5.03	119.57	109.00
1	K	36	ASP	CA-CB-CG	-5.03	102.33	113.40
1	L	277	TYR	CB-CG-CD2	-5.03	117.98	121.00
1	F	781	PHE	CB-CA-C	-5.03	100.34	110.40
1	I	242	PHE	CB-CG-CD1	-5.03	117.28	120.80
1	D	834	PRO	CB-CA-C	-5.02	99.44	112.00
1	G	774	TYR	CA-CB-CG	-5.02	103.86	113.40
1	H	395	VAL	N-CA-C	-5.02	97.44	111.00
4	M	379	PHE	CB-CG-CD1	-5.02	117.28	120.80
1	L	707	TYR	CB-CA-C	-5.02	100.36	110.40
1	L	335	TYR	CB-CA-C	-5.02	100.36	110.40
1	E	60	ARG	N-CA-C	-5.01	97.47	111.00
1	G	936	ILE	CB-CA-C	-5.01	101.58	111.60
1	K	614	ASN	CB-CA-C	-5.01	100.38	110.40
1	D	754	TYR	N-CA-C	5.01	124.52	111.00
1	F	832	LEU	C-N-CA	5.01	134.22	121.70
1	A	476	ASN	CB-CA-C	-5.00	100.39	110.40
1	I	753	GLY	C-N-CA	-5.00	109.20	121.70
1	J	454	LYS	N-CA-C	5.00	124.50	111.00
7	4	4	ILE	CB-CA-C	5.00	121.60	111.60

All (1) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
1	G	776	ILE	CB

All (24) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	18	GLN	Mainchain,Peptide

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Mol	Chain	Res	Type	Group
1	B	429	THR	Mainchain,Peptide
1	B	431	GLY	Mainchain
1	B	432	ASN	Sidechain
1	B	433	ASP	Mainchain
1	C	555	TYR	Sidechain
1	E	773	HIS	Mainchain,Peptide
1	F	579	TYR	Sidechain
1	F	581	TYR	Sidechain
1	F	734	ASN	Mainchain
1	G	555	TYR	Sidechain
1	G	773	HIS	Mainchain
1	G	776	ILE	Mainchain
1	H	326	PHE	Mainchain
1	H	330	PHE	Mainchain
1	I	579	TYR	Sidechain
1	J	277	TYR	Sidechain
1	J	555	TYR	Sidechain
1	L	579	TYR	Sidechain
1	L	787	TYR	Sidechain
5	P	67	ALA	Mainchain

5.2 Too-close contacts (i)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	7551	0	7220	1552	0
1	B	7536	0	7195	2040	0
1	C	7519	0	7187	1985	0
1	D	7526	0	7193	1420	0
1	E	7526	0	7186	1709	0
1	F	7544	0	7214	2019	0
1	G	7526	0	7193	1614	0
1	H	7526	0	7184	1842	0
1	I	7536	0	7203	1663	0
1	J	7551	0	7211	1876	0
1	K	7551	0	7216	1769	0
1	L	7524	0	7194	1819	0
2	N	3803	0	3723	530	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	O	162	0	148	25	0
4	M	2938	0	2905	414	0
5	P	871	0	873	278	0
5	Q	875	0	873	338	0
5	R	965	0	962	318	0
5	S	881	0	877	157	0
6	U	1391	0	1342	374	0
6	V	1391	0	1344	199	0
7	1	236	0	219	95	0
7	2	211	0	196	66	0
7	3	202	0	188	68	0
7	4	211	0	196	95	0
7	5	202	0	188	65	0
7	6	211	0	196	74	0
7	7	202	0	188	29	0
7	8	236	0	219	47	0
7	9	202	0	188	86	0
8	X	51	0	14	6	0
8	Y	51	0	13	3	0
8	Z	30	0	8	9	0
All	All	105738	0	101256	21102	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 102.

All (21102) 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:162:THR:HG21	1:J:193:PHE:CD2	1.16	1.65
1:A:407:LEU:HD21	1:C:474:TYR:CD2	1.30	1.64
1:F:950:ALA:CB	1:H:893:LEU:HD12	1.19	1.63
1:H:94:LEU:CD1	1:H:619:PHE:CD1	1.80	1.62
1:A:462:ILE:HD12	1:B:411:CYS:SG	1.40	1.61
1:I:193:PHE:HZ	1:I:284:TYR:CE1	1.15	1.61
1:L:199:VAL:CG1	1:L:206:GLU:CG	1.75	1.61
5:Q:4:THR:HG21	5:Q:13:PHE:CE2	1.36	1.61
1:A:926:VAL:HG12	1:A:940:TYR:CD2	1.19	1.61
1:E:774:TYR:CG	1:E:774:TYR:CB	1.78	1.61
1:J:663:VAL:HA	5:P:12:LEU:CD2	1.22	1.60
1:H:94:LEU:HD13	1:H:619:PHE:CE1	1.27	1.60
1:H:923:PHE:CB	1:H:943:THR:HG21	1.29	1.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:241:LYS:CE	1:C:256:ILE:HD11	1.13	1.59
1:H:20:ALA:CB	7:5:9:LEU:CD1	1.79	1.59
1:H:71:VAL:CG1	1:H:71:VAL:CB	1.75	1.59
1:A:188:TYR:CE1	1:A:256:ILE:HG21	1.32	1.59
1:A:277:TYR:CE1	1:A:279:ALA:HB2	1.36	1.59
1:C:78:TYR:CD2	1:C:695:PHE:CE1	1.92	1.58
1:F:136:GLU:CG	1:F:218:LYS:HE3	1.18	1.58
5:Q:4:THR:CG2	5:Q:13:PHE:HE2	1.04	1.58
1:C:724:MET:CG	1:C:729:VAL:HG21	1.23	1.57
1:H:94:LEU:HD13	1:H:619:PHE:CD1	1.05	1.57
1:F:267:SER:CB	1:F:277:TYR:CE2	1.87	1.56
1:C:893:LEU:HD21	6:U:227:ASP:CB	1.11	1.56
1:B:116:TYR:CD2	1:C:520:ILE:CG2	1.87	1.56
1:B:670:ARG:NH2	1:B:945:PHE:CD2	1.73	1.56
1:J:277:TYR:CB	1:J:277:TYR:CD1	1.87	1.56
1:L:525:SER:H	1:L:801:MET:CE	1.08	1.56
1:I:361:ARG:NH1	1:I:567:PHE:CE2	1.72	1.55
1:L:310:ILE:CG1	1:L:310:ILE:CB	1.75	1.55
1:K:358:LEU:HD12	1:K:942:ARG:CZ	1.19	1.55
1:L:193:PHE:HZ	1:L:284:TYR:CD1	1.23	1.55
1:F:950:ALA:HB3	1:H:893:LEU:CD1	1.10	1.55
1:L:7:MET:HG2	1:L:8:PRO:CD	1.31	1.55
1:C:724:MET:CA	1:C:729:VAL:HG23	1.37	1.55
1:G:445:ALA:HB1	1:G:449:GLN:CG	1.33	1.55
6:V:205:PRO:HA	6:V:208:TYR:CE1	1.41	1.55
1:C:60:ARG:CZ	6:U:93:ARG:HD3	1.07	1.55
1:C:827:GLY:HA2	1:C:839:GLY:C	1.18	1.55
1:J:277:TYR:CB	1:J:277:TYR:CD2	1.85	1.55
1:B:440:TRP:CZ3	1:B:446:ILE:HD13	1.39	1.54
1:E:544:ARG:CB	1:E:544:ARG:CG	1.82	1.54
1:J:31:PHE:CE2	1:K:630:LEU:HD13	1.38	1.54
1:B:377:ARG:HB3	1:B:388:VAL:CG2	1.35	1.54
1:C:60:ARG:HH21	6:U:93:ARG:NE	1.05	1.54
7:6:22:TRP:CH2	7:6:25:ILE:HD11	1.41	1.54
1:G:445:ALA:CB	1:G:449:GLN:HG2	1.34	1.53
6:U:197:TYR:CE2	6:U:200:PRO:HA	1.41	1.53
1:C:724:MET:HG2	1:C:729:VAL:CG2	1.12	1.53
1:J:66:LEU:CD1	1:J:619:PHE:HE1	1.20	1.53
5:R:34:SER:CA	5:R:43:PRO:HG2	1.34	1.53
1:I:168:THR:HG21	1:I:185:LYS:NZ	1.22	1.52
1:K:20:ALA:HB1	7:8:9:LEU:CD1	1.36	1.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:926:VAL:CG1	1:A:940:TYR:CE2	1.93	1.52
1:I:173:LEU:CD1	1:I:185:LYS:NZ	1.70	1.52
1:L:188:TYR:CE1	1:L:256:ILE:HD13	1.44	1.51
6:U:169:LEU:CD1	7:1:30:LEU:HA	1.39	1.51
1:F:267:SER:HB2	1:F:277:TYR:CE2	1.43	1.51
4:M:162:PHE:CE1	4:M:237:ILE:HD11	1.44	1.51
1:B:390:SER:CB	1:B:868:ARG:NH2	1.71	1.50
1:C:893:LEU:CD2	6:U:227:ASP:HB2	1.37	1.50
1:A:204:TRP:CE3	1:B:313:VAL:HG13	1.44	1.50
1:C:361:ARG:NH1	1:C:567:PHE:CZ	1.78	1.50
1:A:926:VAL:HG11	1:A:940:TYR:CE2	1.43	1.49
7:9:22:TRP:CH2	7:9:25:ILE:HB	1.45	1.49
1:B:277:TYR:CE1	1:B:279:ALA:HB2	1.47	1.49
1:I:193:PHE:CZ	1:I:284:TYR:CD1	2.00	1.49
1:K:172:LEU:HD21	1:K:193:PHE:CZ	1.46	1.49
1:B:831:TYR:HB2	1:B:838:GLN:NE2	1.23	1.49
1:I:417:THR:CG2	1:I:457:VAL:HG13	1.42	1.48
1:L:670:ARG:NH2	1:L:945:PHE:CA	1.77	1.48
1:I:193:PHE:CZ	1:I:284:TYR:CE1	1.98	1.48
5:P:16:TYR:CD2	5:Q:18:THR:HG23	1.45	1.48
1:E:731:TRP:H	1:E:732:PRO:CD	1.11	1.48
1:F:831:TYR:HB2	1:F:838:GLN:NE2	1.25	1.47
1:J:836:MET:CE	1:L:203:ASN:HA	1.43	1.47
1:J:66:LEU:CD1	1:J:619:PHE:CE1	1.97	1.47
1:J:926:VAL:CG1	1:J:940:TYR:CD2	1.98	1.47
2:N:404:GLN:NE2	2:N:407:ASN:HD22	0.97	1.47
1:C:724:MET:CG	1:C:729:VAL:CG2	1.82	1.46
5:R:34:SER:C	5:R:43:PRO:CG	1.82	1.46
1:B:775:ASN:HB3	1:B:880:MET:SD	1.54	1.46
1:K:241:LYS:NZ	1:K:256:ILE:HD13	1.26	1.46
1:J:650:ALA:CB	1:J:942:ARG:HH21	1.25	1.46
1:L:822:GLN:OE1	1:L:846:PHE:CD1	1.66	1.46
1:A:198:GLN:CD	1:B:838:GLN:HA	1.19	1.46
1:D:83:ARG:HB2	1:D:582:GLU:CB	1.42	1.46
1:H:20:ALA:HB3	7:5:9:LEU:CD1	1.36	1.46
1:I:193:PHE:HZ	1:I:284:TYR:CD1	1.30	1.46
1:B:116:TYR:CG	1:C:520:ILE:HG21	1.52	1.45
1:H:67:ARG:HH12	1:I:752:GLU:CD	1.18	1.45
1:D:449:GLN:HG3	1:E:153:VAL:CG2	1.45	1.45
5:Q:41:VAL:O	5:Q:42:LEU:CD1	1.65	1.45
1:C:60:ARG:NH2	6:U:93:ARG:CD	1.78	1.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:241:LYS:CG	1:F:286:GLU:HG3	1.46	1.45
1:L:670:ARG:HH22	1:L:945:PHE:CA	1.28	1.45
5:R:34:SER:C	5:R:43:PRO:HG2	1.37	1.45
1:B:682:ARG:HH22	1:B:910:MET:CB	1.30	1.44
1:L:20:ALA:HA	1:L:23:TYR:CE2	1.49	1.44
1:L:670:ARG:NH1	1:L:945:PHE:CD2	1.83	1.44
1:C:60:ARG:NE	6:U:93:ARG:HD3	1.17	1.44
1:A:107:LEU:HD12	1:A:607:SER:CB	1.42	1.44
1:E:453:CYS:SG	1:E:453:CYS:CB	2.05	1.44
1:C:193:PHE:HE1	1:C:284:TYR:CE1	1.34	1.44
1:D:295:THR:CB	1:D:295:THR:OG1	1.63	1.43
1:D:449:GLN:CG	1:E:153:VAL:HG22	1.45	1.43
1:C:241:LYS:NZ	1:C:256:ILE:CD1	1.82	1.43
1:C:327:ARG:HH12	1:C:705:ILE:CG1	1.31	1.43
5:Q:36:VAL:CG2	5:Q:43:PRO:HB3	1.48	1.43
1:D:201:GLU:O	1:E:836:MET:CE	1.67	1.43
5:Q:35:THR:CG2	5:Q:40:PRO:HB3	1.46	1.43
7:9:22:TRP:HH2	7:9:25:ILE:CB	1.31	1.43
1:C:78:TYR:CD2	1:C:695:PHE:HE1	1.26	1.42
1:E:103:ILE:HG21	1:E:610:PHE:CD2	1.52	1.42
1:L:193:PHE:CZ	1:L:284:TYR:CD1	2.06	1.42
2:N:230:HIS:CE1	2:N:376:PRO:HD3	1.53	1.42
1:D:427:LYS:HG2	1:D:441:GLU:CD	1.39	1.42
1:D:429:THR:CG2	1:D:439:GLU:OE2	1.65	1.42
1:H:94:LEU:CD1	1:H:619:PHE:HD1	1.13	1.42
1:L:161:ALA:HB3	1:L:198:GLN:NE2	1.30	1.42
1:D:297:VAL:CG1	1:D:297:VAL:CB	1.94	1.42
1:E:423:TYR:O	1:E:449:GLN:CG	1.65	1.42
1:I:188:TYR:O	1:I:256:ILE:CD1	1.67	1.42
1:D:731:TRP:CD2	1:D:732:PRO:HD3	1.53	1.41
1:F:663:VAL:HG13	5:R:17:LEU:CD1	1.50	1.41
1:J:66:LEU:HD11	1:J:619:PHE:CE1	1.55	1.41
1:H:943:THR:OG1	1:H:944:PRO:CD	1.67	1.41
1:A:462:ILE:CD1	1:B:411:CYS:SG	2.05	1.41
1:B:116:TYR:CD2	1:C:520:ILE:HG21	1.48	1.41
1:C:250:GLN:NE2	1:C:251:PRO:HD2	1.29	1.41
1:J:269:PRO:CB	1:J:274:GLY:O	1.69	1.41
5:Q:4:THR:CG2	5:Q:13:PHE:CE2	1.93	1.41
1:E:831:TYR:HB2	1:E:838:GLN:NE2	1.30	1.41
1:H:423:TYR:O	1:H:449:GLN:CG	1.70	1.41
1:J:926:VAL:HG11	1:J:940:TYR:CE2	1.54	1.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:194:GLN:O	1:E:197:PRO:CD	1.68	1.40
1:H:20:ALA:CB	7:5:9:LEU:HD13	0.95	1.40
1:C:241:LYS:NZ	1:C:256:ILE:HD11	1.28	1.40
1:D:276:GLU:O	1:F:440:TRP:CZ3	1.74	1.40
1:J:162:THR:CG2	1:J:193:PHE:CD2	2.05	1.40
1:C:724:MET:HG2	1:C:729:VAL:CB	1.48	1.39
1:D:427:LYS:CE	1:D:441:GLU:OE2	1.67	1.39
1:A:107:LEU:CD1	1:A:607:SER:HB2	1.52	1.39
1:B:204:TRP:NE1	1:B:415:ASN:HB2	1.31	1.39
1:K:440:TRP:CD1	1:K:440:TRP:O	1.75	1.39
5:Q:35:THR:CG2	5:Q:40:PRO:CB	2.01	1.39
5:Q:36:VAL:HG22	5:Q:43:PRO:CB	1.51	1.39
1:A:188:TYR:CE1	1:A:256:ILE:CG2	2.04	1.39
1:L:134:GLN:CB	1:L:154:THR:HG23	1.51	1.39
1:A:424:GLN:CB	1:A:446:ILE:O	1.71	1.39
1:F:229:PHE:O	1:F:229:PHE:CD2	1.76	1.39
1:L:649:ALA:CB	1:L:920:PHE:O	1.71	1.39
1:A:193:PHE:HZ	1:A:213:GLY:C	1.25	1.39
1:C:356:VAL:HG22	1:C:940:TYR:CE1	1.58	1.39
5:R:8:PHE:CD2	5:R:9:GLU:N	1.81	1.38
1:G:313:VAL:HB	1:I:203:ASN:ND2	1.36	1.38
1:L:199:VAL:CG1	1:L:206:GLU:HG2	0.92	1.38
1:B:472:PHE:HE1	1:B:539:ARG:NH1	1.21	1.38
1:J:358:LEU:HD21	1:J:947:ALA:CB	1.53	1.38
1:L:241:LYS:CG	1:L:286:GLU:OE1	1.69	1.38
5:R:44:ALA:HB1	5:R:51:TYR:CE1	1.57	1.38
1:A:198:GLN:NE2	1:B:838:GLN:HA	1.22	1.38
1:B:135:TRP:CH2	1:B:309:GLU:HB2	1.58	1.37
1:G:776:ILE:CB	1:G:776:ILE:CG2	1.99	1.37
1:A:193:PHE:CZ	1:A:213:GLY:C	1.96	1.37
1:C:60:ARG:NE	6:U:93:ARG:CD	1.87	1.37
1:C:241:LYS:HZ3	1:C:256:ILE:CD1	1.33	1.37
1:E:103:ILE:CG2	1:E:610:PHE:HD2	1.37	1.37
1:I:267:SER:HB2	1:I:276:GLU:CA	1.53	1.37
1:J:909:PRO:CG	5:Q:48:THR:O	1.69	1.36
1:A:926:VAL:CG1	1:A:940:TYR:CD2	1.99	1.36
1:I:38:TYR:OH	7:6:24:GLU:CB	1.71	1.36
5:P:41:VAL:O	5:P:43:PRO:CD	1.71	1.36
1:E:190:ASP:OD2	1:E:236:LYS:NZ	1.57	1.36
1:F:373:SER:O	1:F:790:ARG:NH1	1.58	1.36
1:F:950:ALA:HB3	1:H:893:LEU:CG	1.54	1.36

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:525:SER:N	1:L:801:MET:HE1	1.39	1.36
1:B:188:TYR:HA	1:B:192:THR:CG2	1.54	1.36
1:E:155:LYS:NZ	1:E:261:PHE:CE1	1.94	1.36
1:F:151:LYS:HG2	1:F:154:THR:OG1	1.22	1.36
1:I:188:TYR:O	1:I:256:ILE:HD11	1.22	1.35
5:Q:35:THR:HG22	5:Q:40:PRO:CB	1.54	1.35
1:C:330:PHE:HE1	1:C:384:TRP:C	1.28	1.35
1:C:361:ARG:NH1	1:C:567:PHE:HZ	1.14	1.35
1:D:433:ASP:OD1	1:D:434:GLY:N	1.57	1.35
1:F:558:PHE:CD1	1:F:558:PHE:O	1.78	1.35
1:H:155:LYS:NZ	1:H:215:ALA:HB3	1.39	1.35
7:9:22:TRP:CH2	7:9:25:ILE:HG13	1.62	1.35
1:B:943:THR:HG23	1:B:944:PRO:CD	1.55	1.35
1:H:425:GLY:O	1:H:440:TRP:HB2	1.24	1.35
6:V:205:PRO:CA	6:V:208:TYR:CE1	2.09	1.35
1:B:190:ASP:OD2	1:B:236:LYS:CG	1.74	1.35
7:9:16:ARG:HD3	7:9:21:THR:CG2	1.54	1.35
1:B:831:TYR:CB	1:B:838:GLN:NE2	1.90	1.35
1:D:747:ARG:NH2	1:D:752:GLU:OE2	1.57	1.35
1:E:204:TRP:CE3	1:F:313:VAL:HG13	1.61	1.35
1:B:241:LYS:CE	1:B:286:GLU:OE1	1.72	1.34
1:G:445:ALA:CB	1:G:449:GLN:CG	1.96	1.34
1:A:815:LYS:CD	1:C:233:THR:O	1.73	1.34
1:D:83:ARG:CB	1:D:582:GLU:HB3	1.57	1.34
1:D:158:GLY:O	1:F:452:ILE:CG2	1.75	1.34
1:F:241:LYS:HG2	1:F:286:GLU:CG	1.58	1.34
1:H:650:ALA:HB1	1:H:942:ARG:NH2	1.36	1.34
1:J:134:GLN:CA	1:J:154:THR:O	1.74	1.34
4:M:162:PHE:CE1	4:M:237:ILE:CD1	2.08	1.34
1:B:339:THR:HA	1:B:342:MET:CE	1.54	1.34
1:I:151:LYS:HG2	1:I:154:THR:OG1	1.19	1.34
1:I:361:ARG:NH1	1:I:567:PHE:HE2	0.85	1.34
1:J:3:THR:OG1	1:K:892:MET:HE2	1.25	1.34
1:F:705:ILE:O	1:F:709:ASP:HB3	1.27	1.34
6:U:197:TYR:HE2	6:U:200:PRO:CA	1.40	1.34
7:5:17:PRO:HG2	7:5:22:TRP:CE3	1.60	1.34
1:B:204:TRP:HE1	1:B:415:ASN:CB	1.39	1.34
1:B:241:LYS:HE2	1:B:286:GLU:CD	1.45	1.34
1:C:481:LEU:HD23	1:C:529:MET:CE	1.55	1.34
1:F:151:LYS:O	1:F:154:THR:CB	1.73	1.33
1:J:158:GLY:CA	1:L:452:ILE:HG23	1.57	1.33

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:822:GLN:OE1	1:L:846:PHE:CE1	1.80	1.33
1:H:366:SER:HB2	1:H:647:LEU:CB	1.56	1.33
1:J:926:VAL:CG1	1:J:940:TYR:CE2	2.11	1.33
1:E:791:MET:SD	1:E:868:ARG:NH2	2.01	1.33
1:K:277:TYR:CE1	1:K:279:ALA:HB2	1.61	1.33
5:R:35:THR:N	5:R:43:PRO:HG3	1.40	1.33
1:A:417:THR:HG21	1:A:453:CYS:CB	1.58	1.33
1:A:823:HIS:CB	1:C:196:GLU:OE2	1.77	1.33
1:E:52:PRO:CD	7:3:23:ASN:HD22	1.41	1.32
1:L:609:ARG:NH2	5:Q:66:ALA:HB2	1.40	1.32
1:C:193:PHE:CE1	1:C:284:TYR:CE1	2.15	1.32
1:D:244:PRO:CD	1:D:253:ASP:O	1.76	1.32
1:B:79:LEU:HD22	1:B:335:TYR:CE1	1.61	1.32
1:D:265:GLY:O	1:D:276:GLU:HB3	1.23	1.32
1:D:427:LYS:CG	1:D:441:GLU:OE2	1.77	1.32
1:K:162:THR:CG2	1:K:163:GLY:H	1.39	1.32
5:R:8:PHE:CE2	5:R:9:GLU:HB2	1.61	1.32
1:E:135:TRP:CH2	1:E:309:GLU:HB2	1.63	1.32
1:I:168:THR:CG2	1:I:185:LYS:NZ	1.93	1.32
5:Q:35:THR:HG22	5:Q:40:PRO:CA	1.57	1.32
1:A:107:LEU:CD1	1:A:607:SER:CB	2.05	1.32
1:A:277:TYR:CZ	1:A:279:ALA:HB2	1.63	1.32
1:B:242:PHE:CE1	1:B:287:ASN:HB3	1.62	1.32
1:D:10:TRP:CH2	1:E:943:THR:CG2	2.13	1.32
1:E:428:ILE:HG21	1:F:169:ASN:ND2	1.02	1.32
1:A:277:TYR:CE1	1:A:279:ALA:CB	2.12	1.31
1:F:192:THR:O	1:F:193:PHE:CD1	1.82	1.31
1:I:649:ALA:HB1	1:I:920:PHE:O	1.27	1.31
1:K:910:MET:CE	1:K:914:THR:HB	1.60	1.31
5:P:41:VAL:C	5:P:43:PRO:HD3	1.45	1.31
6:U:209:PRO:HB3	6:U:212:PHE:CE1	1.63	1.31
6:V:205:PRO:CA	6:V:208:TYR:HE1	1.41	1.31
1:E:206:GLU:O	1:E:206:GLU:CG	1.71	1.31
1:E:462:ILE:CG2	1:F:411:CYS:SG	2.18	1.31
1:H:344:VAL:HG23	1:H:353:ASN:CB	1.60	1.31
1:H:346:ALA:HB2	1:H:353:ASN:CA	1.61	1.31
2:N:404:GLN:HE21	2:N:407:ASN:ND2	1.27	1.31
7:8:9:LEU:O	7:8:11:PRO:CD	1.76	1.31
1:F:298:VAL:HG12	1:F:315:GLN:O	1.27	1.31
7:6:22:TRP:CH2	7:6:25:ILE:CD1	2.11	1.31
1:B:822:GLN:NE2	1:B:846:PHE:CD1	1.99	1.31

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:60:ARG:CZ	6:U:93:ARG:CD	2.00	1.31
1:E:52:PRO:HD3	7:3:23:ASN:ND2	1.43	1.31
1:E:831:TYR:CB	1:E:838:GLN:HE21	1.41	1.31
1:H:269:PRO:HB3	1:H:277:TYR:CE2	1.63	1.31
1:K:161:ALA:C	1:K:198:GLN:HG3	1.43	1.31
1:L:725:PHE:O	1:L:900:ALA:C	1.67	1.31
2:N:145:VAL:CG1	2:N:146:GLU:H	1.35	1.31
1:A:462:ILE:CG1	1:B:411:CYS:SG	2.20	1.30
1:F:686:LYS:HG2	5:Q:8:PHE:CZ	1.66	1.30
1:K:161:ALA:O	1:K:198:GLN:CG	1.76	1.30
1:K:676:ARG:O	1:K:875:PHE:CB	1.79	1.30
1:A:462:ILE:HB	1:B:411:CYS:SG	1.70	1.30
1:D:416:GLY:O	1:D:457:VAL:HG12	1.26	1.30
1:L:677:GLY:O	1:L:921:GLU:CG	1.77	1.30
1:B:198:GLN:CB	1:C:838:GLN:O	1.77	1.30
1:B:440:TRP:HZ3	1:B:446:ILE:CD1	1.45	1.30
1:F:666:SER:CB	5:R:16:TYR:CE2	2.13	1.30
1:F:748:SER:O	5:P:55:GLY:CA	1.80	1.30
1:L:199:VAL:HG13	1:L:206:GLU:CG	1.41	1.30
1:B:836:MET:O	1:B:837:ARG:HG2	1.23	1.30
1:J:348:GLN:HB3	1:J:578:SER:O	1.28	1.30
1:B:423:TYR:O	1:B:449:GLN:HG2	1.28	1.29
1:D:415:ASN:O	1:E:129:ALA:CB	1.80	1.29
1:H:344:VAL:CG2	1:H:353:ASN:HB2	1.61	1.29
1:L:670:ARG:NH2	1:L:945:PHE:HA	0.97	1.29
1:F:370:LEU:HD23	1:F:570:LYS:NZ	1.47	1.29
1:F:463:ASN:ND2	1:F:466:ALA:HB3	1.46	1.29
2:N:258:GLN:OE1	2:N:261:GLN:NE2	1.63	1.29
1:C:422:THR:HA	1:C:450:ASN:O	1.28	1.29
1:C:744:GLU:O	1:C:762:THR:HG21	1.28	1.29
1:G:55:ASP:O	1:G:623:ALA:CB	1.79	1.29
2:N:404:GLN:NE2	2:N:407:ASN:ND2	1.81	1.29
5:Q:12:LEU:O	5:Q:15:PRO:HD2	1.12	1.29
5:Q:126:ARG:HB2	5:Q:129:GLN:NE2	1.45	1.29
1:B:241:LYS:HE2	1:B:286:GLU:OE1	1.13	1.29
1:C:60:ARG:HH21	6:U:93:ARG:CD	1.38	1.29
1:C:266:GLY:HA3	1:C:277:TYR:CD2	1.68	1.29
1:H:134:GLN:OE1	1:H:155:LYS:HE2	1.33	1.29
1:K:132:PRO:HB3	1:K:157:PHE:O	1.32	1.29
1:K:194:GLN:O	1:K:197:PRO:HD2	1.32	1.29
1:K:240:ALA:O	1:K:288:VAL:HG12	1.23	1.29

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:536:ASN:HB3	1:K:596:SER:O	1.29	1.29
7:3:22:TRP:CZ3	7:3:25:ILE:HD12	1.66	1.29
1:A:313:VAL:HG22	1:C:204:TRP:CE3	1.66	1.28
1:B:190:ASP:OD2	1:B:236:LYS:HG3	1.14	1.28
1:I:69:VAL:CG2	1:I:70:PRO:HD2	1.61	1.28
6:U:169:LEU:HD11	7:1:29:GLN:O	1.21	1.28
1:A:456:ASN:ND2	1:C:838:GLN:HA	1.44	1.28
1:A:462:ILE:CB	1:B:411:CYS:SG	2.20	1.28
1:C:896:ASN:ND2	6:U:21:ALA:HB1	1.48	1.28
1:F:666:SER:HB3	5:R:16:TYR:CE2	1.68	1.28
1:G:141:GLN:CD	1:I:446:ILE:HD11	1.54	1.28
1:I:760:ASN:HB3	5:S:54:VAL:CG1	1.62	1.28
1:J:663:VAL:CA	5:P:12:LEU:HD23	1.63	1.28
5:P:35:THR:CG2	5:P:40:PRO:HA	1.61	1.28
1:D:38:TYR:CE1	1:E:56:VAL:CG1	2.15	1.28
1:F:663:VAL:CG1	5:R:17:LEU:HD12	1.62	1.28
1:L:667:ILE:HD11	1:L:920:PHE:CZ	1.66	1.28
1:B:423:TYR:O	1:B:449:GLN:CG	1.81	1.28
1:B:836:MET:HA	1:B:836:MET:CE	1.59	1.28
1:D:573:LEU:HB3	1:D:641:GLN:NE2	1.46	1.28
1:E:428:ILE:CG2	1:F:169:ASN:ND2	1.93	1.28
1:J:61:SER:HB2	1:K:735:ASP:OD2	1.19	1.28
1:B:161:ALA:HB3	1:B:198:GLN:OE1	1.29	1.28
1:F:675:PHE:O	1:F:886:THR:HG21	1.28	1.28
1:F:909:PRO:HG2	5:P:48:THR:O	1.31	1.28
1:G:159:VAL:CG1	1:H:840:GLN:HB2	1.64	1.28
1:G:421:SER:HB3	1:G:423:TYR:CE1	1.67	1.28
1:H:137:THR:HG23	1:H:152:ASP:OD1	1.14	1.28
1:J:158:GLY:O	1:L:452:ILE:HG22	1.17	1.28
5:S:34:SER:O	5:S:43:PRO:HG2	1.31	1.28
1:B:433:ASP:CG	1:B:433:ASP:CA	2.02	1.27
1:C:241:LYS:CE	1:C:256:ILE:CD1	2.09	1.27
1:G:55:ASP:O	1:G:623:ALA:HB2	1.20	1.27
1:J:158:GLY:O	1:L:452:ILE:CG2	1.82	1.27
1:C:827:GLY:CA	1:C:839:GLY:O	1.80	1.27
1:E:204:TRP:CZ3	1:F:313:VAL:HG13	1.69	1.27
1:F:267:SER:HB2	1:F:277:TYR:CD2	1.69	1.27
1:C:267:SER:O	1:C:269:PRO:HD3	1.28	1.27
1:C:734:ASN:O	1:C:736:ARG:CG	1.83	1.27
1:E:676:ARG:HH12	7:3:5:ASN:ND2	1.31	1.27
1:K:63:ARG:HG2	1:K:66:LEU:CD2	1.64	1.27

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Q:10:GLY:HA3	5:Q:13:PHE:CD2	1.68	1.27
1:A:158:GLY:CA	1:C:452:ILE:HG23	1.62	1.27
1:J:56:VAL:HG11	1:K:882:MET:CE	1.63	1.27
5:Q:52:ALA:O	5:Q:54:VAL:HG23	1.24	1.27
1:J:924:ASP:OD2	1:J:942:ARG:HG3	1.28	1.27
4:M:377:ASP:O	4:M:381:ASN:HB2	1.32	1.27
1:F:647:LEU:O	1:F:647:LEU:HD23	1.28	1.26
1:F:862:LYS:O	5:P:54:VAL:HB	1.28	1.26
1:I:103:ILE:HG23	1:I:613:VAL:CG2	1.65	1.26
5:Q:16:TYR:CD1	5:R:18:THR:OG1	1.87	1.26
1:D:38:TYR:CE1	1:E:56:VAL:HG11	1.69	1.26
1:F:43:ASN:HA	7:4:8:SER:OG	1.34	1.26
1:F:188:TYR:HA	1:F:192:THR:OG1	1.28	1.26
1:J:473:LEU:O	1:J:477:VAL:HG12	1.24	1.26
5:P:16:TYR:O	5:R:14:SER:O	1.52	1.26
5:Q:16:TYR:CE2	5:R:18:THR:HG23	1.69	1.26
1:B:93:VAL:CG1	1:B:575:LEU:HD23	1.64	1.26
1:B:134:GLN:OE1	1:B:151:LYS:HE2	1.23	1.26
1:F:718:PHE:O	1:F:745:ILE:CG2	1.83	1.26
1:G:52:PRO:HG3	7:6:23:ASN:O	1.34	1.26
1:K:246:ASN:ND2	1:K:247:GLU:O	1.66	1.26
1:B:651:ASN:HB3	1:B:919:LEU:CD2	1.64	1.26
1:H:198:GLN:NE2	1:I:838:GLN:HB2	1.49	1.26
1:I:135:TRP:CB	1:I:307:SER:O	1.82	1.26
1:I:760:ASN:CB	5:S:54:VAL:HG11	1.65	1.26
6:V:69:LEU:H	6:V:69:LEU:CD2	1.47	1.26
1:A:193:PHE:HZ	1:A:214:ARG:N	1.32	1.26
1:F:808:GLU:CG	1:F:814:TYR:CE2	2.17	1.26
5:Q:12:LEU:O	5:Q:15:PRO:CD	1.84	1.26
1:A:439:GLU:O	1:A:440:TRP:CD1	1.89	1.25
1:G:360:ASP:OD2	1:G:942:ARG:NH2	1.69	1.25
5:R:44:ALA:CB	5:R:51:TYR:OH	1.84	1.25
7:9:22:TRP:CZ2	7:9:25:ILE:HG13	1.71	1.25
1:A:720:LYS:CB	1:A:906:GLU:OE2	1.83	1.25
1:C:731:TRP:NE1	1:C:875:PHE:CE1	2.00	1.25
1:J:744:GLU:O	1:J:765:TRP:HB2	1.30	1.25
1:B:310:ILE:O	1:B:313:VAL:HG23	1.10	1.25
1:D:10:TRP:HH2	1:E:943:THR:CG2	1.47	1.25
1:D:428:ILE:CD1	1:E:169:ASN:HB3	1.64	1.25
1:E:676:ARG:NH1	7:3:5:ASN:HD21	1.33	1.25
1:H:74:GLU:OE2	1:H:81:LYS:HD3	1.33	1.25

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:536:ASN:HB3	1:H:596:SER:O	1.16	1.25
1:J:188:TYR:HA	1:J:192:THR:OG1	1.10	1.25
1:L:476:ASN:O	1:L:480:TYR:CD2	1.88	1.25
7:9:22:TRP:CH2	7:9:25:ILE:CG1	2.19	1.25
7:8:9:LEU:O	7:8:11:PRO:HD2	1.09	1.25
1:D:705:ILE:HD11	1:D:708:LEU:CD1	1.65	1.25
1:F:136:GLU:CG	1:F:218:LYS:CE	2.12	1.25
1:F:649:ALA:CB	1:F:919:LEU:HD23	1.66	1.25
1:H:137:THR:CG2	1:H:152:ASP:OD1	1.82	1.25
7:9:22:TRP:CH2	7:9:25:ILE:CB	2.10	1.25
1:B:79:LEU:HD21	1:B:335:TYR:OH	1.24	1.25
1:C:447:SER:O	1:C:448:ARG:HG2	1.17	1.25
1:D:10:TRP:CH2	1:E:943:THR:HG21	1.69	1.25
1:F:760:ASN:CB	5:P:54:VAL:HG11	1.67	1.25
1:J:714:LEU:O	1:J:714:LEU:HD12	1.22	1.25
1:D:169:ASN:ND2	1:F:432:ASN:HB3	1.50	1.24
1:D:198:GLN:CG	1:E:838:GLN:HB2	1.67	1.24
1:F:103:ILE:CB	1:F:560:ILE:HD11	1.65	1.24
1:J:38:TYR:CE1	1:K:56:VAL:HG12	1.73	1.24
1:K:101:PHE:CZ	1:K:581:TYR:HE2	1.54	1.24
1:L:163:GLY:HA3	1:L:208:GLU:OE2	1.36	1.24
6:U:209:PRO:CB	6:U:212:PHE:CE1	2.19	1.24
1:A:281:ILE:HD12	1:C:423:TYR:CE1	1.71	1.24
1:A:445:ALA:H	1:B:152:ASP:CA	1.49	1.24
1:B:298:VAL:CG2	1:B:317:MET:HG2	1.66	1.24
1:B:445:ALA:O	1:B:449:GLN:OE1	1.56	1.24
1:C:69:VAL:CG2	1:C:70:PRO:HD2	1.67	1.24
1:H:444:ASP:HB3	1:H:449:GLN:NE2	1.53	1.24
1:H:923:PHE:HB2	1:H:943:THR:CG2	1.67	1.24
1:J:195:PRO:HA	1:J:198:GLN:NE2	1.53	1.24
2:N:204:ASP:O	2:N:232:ASP:OD1	1.54	1.24
5:S:36:VAL:O	5:S:36:VAL:CG1	1.82	1.24
1:H:135:TRP:CH2	1:H:309:GLU:HB2	1.71	1.24
1:K:358:LEU:CD1	1:K:942:ARG:CZ	2.13	1.24
7:4:9:LEU:O	7:4:11:PRO:HD2	1.34	1.24
1:A:815:LYS:HD2	1:C:233:THR:O	1.15	1.24
1:F:437:GLU:O	1:F:437:GLU:CG	1.68	1.24
1:G:138:LYS:HE2	1:G:149:GLN:OE1	1.12	1.24
1:J:925:VAL:HG11	1:L:46:ARG:NH2	1.52	1.24
1:C:56:VAL:CG2	7:1:24:GLU:HG2	1.66	1.24
1:H:423:TYR:O	1:H:449:GLN:CB	1.85	1.24

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:4:17:PRO:HD2	7:4:22:TRP:O	1.33	1.24
1:A:3:THR:OG1	1:A:4:PRO:CD	1.85	1.23
1:A:417:THR:HG21	1:A:453:CYS:SG	1.77	1.23
1:B:390:SER:HB3	1:B:868:ARG:NH2	0.92	1.23
1:D:552:ASN:O	1:E:804:GLN:HG2	1.34	1.23
1:F:219:ASP:O	1:F:219:ASP:OD2	1.56	1.23
1:L:7:MET:CG	1:L:8:PRO:HD3	1.68	1.23
1:D:429:THR:HG21	1:D:439:GLU:OE2	1.06	1.23
1:E:135:TRP:CZ3	1:E:309:GLU:HB2	1.73	1.23
1:H:67:ARG:NH1	1:I:752:GLU:CD	1.91	1.23
1:H:663:VAL:HG22	5:Q:17:LEU:CD1	1.69	1.23
1:L:20:ALA:O	1:L:24:LEU:CD1	1.86	1.23
1:L:717:THR:O	1:L:907:VAL:HG23	1.30	1.23
1:G:161:ALA:CB	1:G:198:GLN:NE2	2.01	1.23
5:P:12:LEU:HD11	5:P:17:LEU:CD2	1.67	1.23
1:A:309:GLU:HG2	1:C:205:GLN:OE1	1.37	1.23
1:B:242:PHE:CZ	1:B:287:ASN:HB3	1.72	1.23
1:C:193:PHE:HE1	1:C:284:TYR:CD1	1.56	1.23
1:E:311:ASN:O	1:E:314:GLN:NE2	1.72	1.23
1:K:658:ALA:HB2	1:K:913:PRO:CD	1.68	1.23
6:U:169:LEU:HD12	7:1:30:LEU:CA	1.67	1.23
1:A:456:ASN:HD21	1:C:838:GLN:CA	1.49	1.23
1:E:77:THR:CA	5:P:76:ARG:NH2	2.02	1.23
1:H:423:TYR:O	1:H:449:GLN:HG2	1.27	1.23
1:I:173:LEU:HD12	1:I:185:LYS:NZ	0.91	1.23
1:K:268:PRO:CB	1:K:274:GLY:O	1.87	1.22
1:K:370:LEU:HD13	1:K:646:TYR:CD1	1.73	1.22
1:B:193:PHE:HE2	1:B:198:GLN:OE1	1.21	1.22
1:C:330:PHE:CE1	1:C:384:TRP:O	1.92	1.22
1:D:636:ASN:OD1	1:D:637:ASP:N	1.72	1.22
1:H:74:GLU:OE1	1:L:69:VAL:HG11	1.37	1.22
1:H:650:ALA:CB	1:H:942:ARG:HH21	1.53	1.22
1:I:262:ASP:HA	1:I:279:ALA:O	1.28	1.22
1:B:376:ASP:OD2	1:B:376:ASP:O	1.53	1.22
1:J:723:ILE:O	1:J:730:SER:HA	1.29	1.22
1:K:20:ALA:CB	7:8:9:LEU:CD1	2.16	1.22
1:L:525:SER:N	1:L:801:MET:CE	1.92	1.22
1:D:427:LYS:HG2	1:D:441:GLU:OE2	1.19	1.22
1:F:758:GLN:O	1:F:862:LYS:NZ	1.73	1.22
1:I:35:THR:HG22	7:6:24:GLU:OE1	1.32	1.22
1:B:433:ASP:CB	1:B:433:ASP:OD1	1.87	1.22

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:417:THR:HG23	1:I:457:VAL:CG1	1.69	1.22
1:B:433:ASP:CB	1:B:433:ASP:OD2	1.78	1.21
1:C:60:ARG:HE	6:U:93:ARG:CD	1.47	1.21
1:F:760:ASN:HB3	5:P:54:VAL:CG1	1.68	1.21
1:G:313:VAL:CB	1:I:203:ASN:HD22	1.51	1.21
1:I:246:ASN:OD1	1:I:247:GLU:N	1.70	1.21
1:A:198:GLN:NE2	1:B:838:GLN:CA	2.02	1.21
1:E:543:LEU:O	1:E:543:LEU:HD12	1.36	1.21
1:G:88:VAL:HG13	1:G:577:GLY:O	1.39	1.21
1:H:650:ALA:CB	1:H:942:ARG:NH2	2.04	1.21
1:H:923:PHE:CB	1:H:943:THR:CG2	2.19	1.21
1:C:749:VAL:O	1:C:750:ASP:OD1	1.56	1.21
1:J:730:SER:O	1:J:733:GLY:N	1.73	1.21
1:K:268:PRO:CA	1:K:274:GLY:O	1.88	1.21
1:L:7:MET:CG	1:L:8:PRO:CD	2.17	1.21
4:M:162:PHE:CD1	4:M:237:ILE:HD11	1.74	1.21
5:P:14:SER:OG	5:P:15:PRO:HD3	1.36	1.21
7:2:16:ARG:NH1	7:2:21:THR:HG23	1.53	1.21
1:A:720:LYS:HB2	1:A:906:GLU:OE2	1.03	1.21
1:C:684:LYS:CE	1:C:912:GLU:HG3	1.69	1.21
1:C:893:LEU:CD2	6:U:227:ASP:CB	2.04	1.21
1:E:94:LEU:HD13	1:E:619:PHE:CD2	1.75	1.21
1:H:241:LYS:HE2	1:H:286:GLU:OE1	1.35	1.21
4:M:177:GLU:O	4:M:178:VAL:HG22	1.37	1.21
1:A:423:TYR:CE2	1:B:263:VAL:HG22	1.74	1.21
1:B:472:PHE:CE1	1:B:539:ARG:NH1	2.01	1.21
1:C:277:TYR:CE1	1:C:279:ALA:HB2	1.75	1.21
1:F:536:ASN:HB3	1:F:596:SER:O	1.34	1.21
1:H:676:ARG:O	1:H:875:PHE:HB3	1.32	1.21
1:K:241:LYS:HD3	1:K:256:ILE:CG1	1.70	1.21
1:K:911:ASP:O	1:K:911:ASP:OD2	1.56	1.21
5:R:44:ALA:CB	5:R:51:TYR:CE1	2.23	1.21
6:U:209:PRO:HB2	6:U:212:PHE:CD1	1.76	1.21
1:C:827:GLY:HA2	1:C:839:GLY:O	1.03	1.20
1:F:267:SER:OG	1:F:277:TYR:CE2	1.93	1.20
1:I:453:CYS:SG	1:I:455:GLY:O	2.00	1.20
7:8:17:PRO:HD2	7:8:22:TRP:O	1.36	1.20
1:A:3:THR:OG1	1:A:4:PRO:HD3	1.07	1.20
1:A:822:GLN:OE1	1:A:846:PHE:CE1	1.93	1.20
1:B:193:PHE:HZ	1:B:199:VAL:N	1.40	1.20
1:C:327:ARG:HH12	1:C:705:ILE:CD1	1.53	1.20

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:330:PHE:CE1	1:C:384:TRP:C	2.14	1.20
1:E:462:ILE:HG23	1:F:411:CYS:SG	1.79	1.20
1:H:444:ASP:HA	1:I:152:ASP:O	1.40	1.20
1:D:427:LYS:HG2	1:D:441:GLU:CG	1.69	1.20
1:E:361:ARG:NH2	1:E:567:PHE:HE2	1.38	1.20
1:F:730:SER:C	1:F:732:PRO:HD2	1.62	1.20
1:G:438:SER:CB	1:H:277:TYR:O	1.88	1.20
1:H:134:GLN:HA	1:H:154:THR:O	1.10	1.20
1:K:268:PRO:HB3	1:K:274:GLY:O	1.42	1.20
1:L:188:TYR:HE1	1:L:256:ILE:CD1	1.54	1.20
1:L:725:PHE:C	1:L:900:ALA:O	1.79	1.20
6:V:205:PRO:CB	6:V:208:TYR:HE1	1.52	1.20
1:A:194:GLN:HG3	1:A:196:GLU:OE2	1.37	1.20
1:B:653:LEU:CG	1:B:915:LEU:HD13	1.72	1.20
1:C:250:GLN:HE21	1:C:251:PRO:CD	1.52	1.20
1:H:75:ALA:HB2	1:H:80:TYR:CD1	1.75	1.20
1:H:134:GLN:CA	1:H:154:THR:O	1.89	1.20
1:J:31:PHE:CE2	1:K:630:LEU:CD1	2.24	1.20
1:K:139:GLU:HB2	1:K:152:ASP:OD2	1.34	1.20
1:L:731:TRP:O	1:L:731:TRP:CD2	1.94	1.20
5:P:12:LEU:CD2	5:P:17:LEU:HD21	1.72	1.20
7:9:22:TRP:HH2	7:9:25:ILE:CG1	1.52	1.20
7:9:22:TRP:CZ3	7:9:25:ILE:HB	1.77	1.20
1:F:241:LYS:HD3	1:F:256:ILE:CG1	1.69	1.20
1:H:139:GLU:CB	1:H:152:ASP:OD2	1.89	1.20
1:H:676:ARG:O	1:H:875:PHE:CB	1.90	1.20
1:I:891:ASN:O	1:I:895:ALA:HB2	1.39	1.20
1:J:650:ALA:CB	1:J:942:ARG:NH2	2.05	1.20
4:M:385:ASN:C	4:M:385:ASN:OD1	1.80	1.20
5:P:39:ARG:CZ	5:P:41:VAL:HG21	1.71	1.20
1:B:196:GLU:CG	1:B:197:PRO:HD3	1.72	1.19
1:J:233:THR:O	1:K:815:LYS:HD2	1.39	1.19
1:K:161:ALA:O	1:K:198:GLN:HG3	1.03	1.19
5:Q:3:GLY:HA2	5:R:1:MET:SD	1.81	1.19
1:B:682:ARG:NH2	1:B:910:MET:HB3	1.54	1.19
1:H:659:LYS:HB2	1:H:659:LYS:NZ	1.30	1.19
1:K:195:PRO:HB3	1:L:840:GLN:NE2	1.57	1.19
1:A:281:ILE:CD1	1:C:423:TYR:HE1	1.54	1.19
1:B:929:HIS:O	1:B:931:PRO:HD3	1.42	1.19
1:C:60:ARG:NH2	6:U:93:ARG:HD3	1.41	1.19
1:D:158:GLY:O	1:F:452:ILE:HG23	1.05	1.19

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:922:VAL:HG12	1:E:944:PRO:CG	1.72	1.19
1:F:188:TYR:CA	1:F:192:THR:OG1	1.90	1.19
1:F:950:ALA:CA	1:H:893:LEU:HD12	1.72	1.19
1:G:52:PRO:CG	7:6:23:ASN:O	1.89	1.19
1:H:262:ASP:OD2	1:H:279:ALA:HB3	1.38	1.19
1:H:620:PHE:CD2	1:H:622:MET:HG2	1.77	1.19
1:J:736:ARG:NH2	1:L:58:THR:O	1.75	1.19
1:K:138:LYS:HG2	1:K:147:VAL:HG12	1.23	1.19
1:L:497:ASN:O	1:L:500:THR:HG22	1.39	1.19
2:N:279:LEU:O	2:N:331:ILE:HG13	1.38	1.19
1:B:198:GLN:HB2	1:C:838:GLN:O	1.07	1.19
1:B:376:ASP:O	1:B:376:ASP:CG	1.70	1.19
1:D:243:LYS:HA	1:D:253:ASP:O	1.42	1.19
1:J:93:VAL:CG1	1:J:575:LEU:HD23	1.71	1.19
1:J:405:ASP:OD1	1:L:127:LYS:NZ	1.76	1.19
1:K:747:ARG:NH1	1:K:754:TYR:CD1	2.11	1.19
7:5:17:PRO:CG	7:5:22:TRP:HE3	1.56	1.19
1:A:55:ASP:O	1:A:56:VAL:HG12	1.40	1.19
1:B:193:PHE:CE2	1:B:198:GLN:HA	1.75	1.19
1:B:423:TYR:O	1:B:449:GLN:CB	1.91	1.19
1:C:69:VAL:HG23	1:C:70:PRO:CD	1.70	1.19
1:G:196:GLU:CG	1:G:197:PRO:HD3	1.73	1.19
1:J:721:VAL:HG11	1:J:905:PHE:CD1	1.78	1.19
1:L:670:ARG:CZ	1:L:945:PHE:HA	1.72	1.19
5:Q:16:TYR:CE1	5:R:18:THR:OG1	1.94	1.19
5:S:8:PHE:CD2	5:S:9:GLU:HB3	1.76	1.19
1:B:368:GLN:HE22	1:B:377:ARG:NH1	1.39	1.18
1:F:576:PRO:CG	1:F:631:GLU:OE1	1.91	1.18
1:F:691:LEU:CD2	1:F:691:LEU:H	1.54	1.18
1:J:243:LYS:CD	1:J:252:LYS:O	1.89	1.18
1:J:677:GLY:O	1:J:921:GLU:HG2	1.43	1.18
1:D:813:ASP:OD1	1:F:231:ARG:CZ	1.90	1.18
1:E:438:SER:OG	1:E:440:TRP:HZ3	1.25	1.18
1:G:196:GLU:HG2	1:G:197:PRO:CD	1.73	1.18
1:J:38:TYR:CZ	1:K:56:VAL:CG1	2.26	1.18
1:J:910:MET:CE	1:J:914:THR:HG21	1.72	1.18
1:D:407:LEU:HD11	1:F:474:TYR:CD2	1.79	1.18
1:E:193:PHE:CZ	1:E:212:GLY:HA3	1.77	1.18
1:F:136:GLU:HG3	1:F:218:LYS:CE	1.68	1.18
1:K:241:LYS:CD	1:K:256:ILE:HD11	1.71	1.18
1:D:813:ASP:OD1	1:F:231:ARG:NH1	1.75	1.18

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:56:VAL:HG13	7:3:24:GLU:OE1	1.39	1.18
1:G:204:TRP:CE3	1:H:313:VAL:HG22	1.79	1.18
1:H:339:THR:HG22	1:J:740:PRO:HG2	1.20	1.18
1:K:249:GLU:O	1:K:250:GLN:HG3	1.42	1.18
1:A:188:TYR:CZ	1:A:256:ILE:HG21	1.78	1.18
1:A:281:ILE:CD1	1:C:423:TYR:CE1	2.27	1.18
1:A:741:ASN:ND2	1:E:359:GLN:OE1	1.76	1.18
1:C:327:ARG:NH1	1:C:705:ILE:HG13	1.55	1.18
1:G:707:TYR:CE1	1:G:917:TYR:HE1	1.61	1.18
1:J:159:VAL:HA	1:L:453:CYS:SG	1.82	1.18
1:K:38:TYR:OH	7:8:24:GLU:OE1	1.62	1.18
1:A:198:GLN:CD	1:B:838:GLN:CA	2.12	1.17
1:B:533:ASN:ND2	1:B:536:ASN:HD21	1.42	1.17
1:F:635:ARG:NH2	1:F:933:ARG:HA	1.56	1.17
1:J:348:GLN:CB	1:J:578:SER:O	1.92	1.17
1:J:663:VAL:CA	5:P:12:LEU:CD2	2.18	1.17
1:J:926:VAL:HG12	1:J:940:TYR:CD2	1.73	1.17
6:U:208:TYR:HB2	6:U:209:PRO:CD	1.74	1.17
1:B:203:ASN:N	1:C:836:MET:HE1	1.58	1.17
1:B:334:MET:HB3	1:B:336:TYR:CE1	1.78	1.17
1:C:802:SER:HB2	1:C:861:GLN:O	1.39	1.17
1:F:151:LYS:O	1:F:154:THR:HB	0.99	1.17
1:F:370:LEU:CD2	1:F:570:LYS:NZ	2.08	1.17
1:F:649:ALA:HB1	1:F:919:LEU:HD23	1.25	1.17
1:I:399:GLU:HB3	1:I:523:ARG:HA	1.24	1.17
1:K:246:ASN:CG	1:K:247:GLU:N	1.91	1.17
1:L:161:ALA:CB	1:L:198:GLN:NE2	2.06	1.17
1:L:258:PHE:CE2	1:L:284:TYR:HE2	1.63	1.17
4:M:194:LEU:CD2	6:U:197:TYR:OH	1.92	1.17
5:S:9:GLU:O	5:S:9:GLU:CG	1.93	1.17
1:A:197:PRO:HD3	1:B:831:TYR:CE1	1.78	1.17
1:A:407:LEU:CD2	1:C:474:TYR:CD2	2.25	1.17
1:B:679:SER:OG	1:B:919:LEU:HB2	1.41	1.17
1:C:715:ASN:HD22	1:C:715:ASN:C	1.42	1.17
1:C:827:GLY:CA	1:C:839:GLY:C	2.10	1.17
1:D:111:PRO:HG3	1:D:554:ARG:NH2	1.58	1.17
1:G:244:PRO:HD3	1:G:253:ASP:O	1.42	1.17
1:L:752:GLU:HG3	1:L:754:TYR:CE1	1.79	1.17
5:Q:41:VAL:C	5:Q:42:LEU:HD12	1.64	1.17
5:S:33:GLY:HA3	5:S:44:ALA:O	1.42	1.17
1:A:158:GLY:HA3	1:C:452:ILE:CG2	1.74	1.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:155:LYS:HD2	1:B:261:PHE:CE1	1.79	1.17
1:C:72:ASP:HB2	1:J:73:ARG:NH2	1.60	1.17
1:C:684:LYS:HE3	1:C:912:GLU:CG	1.74	1.17
1:D:38:TYR:CZ	1:E:56:VAL:HG11	1.79	1.17
1:E:428:ILE:HD13	1:F:169:ASN:CG	1.64	1.17
1:K:151:LYS:O	1:K:154:THR:OG1	1.62	1.17
1:K:241:LYS:CD	1:K:256:ILE:CD1	2.20	1.17
1:K:415:ASN:OD1	1:K:417:THR:O	1.59	1.17
5:S:33:GLY:CA	5:S:44:ALA:O	1.92	1.17
1:D:892:MET:CE	1:F:3:THR:OG1	1.90	1.17
1:F:72:ASP:O	1:F:72:ASP:OD1	1.61	1.17
1:I:514:VAL:O	1:I:514:VAL:HG13	1.42	1.17
1:J:277:TYR:CG	1:J:277:TYR:CA	2.28	1.17
1:J:756:VAL:CG1	1:J:763:LYS:HA	1.75	1.17
1:K:658:ALA:CB	1:K:913:PRO:HD3	1.75	1.17
5:S:34:SER:O	5:S:43:PRO:CG	1.91	1.17
1:A:736:ARG:NH1	1:C:621:PRO:HB3	1.59	1.16
1:A:905:PHE:O	1:A:906:GLU:HG2	1.42	1.16
1:D:892:MET:CE	1:F:3:THR:HG1	1.58	1.16
1:E:180:ALA:HB1	1:E:182:ASN:ND2	1.58	1.16
1:F:634:LEU:O	1:F:634:LEU:HD23	1.44	1.16
1:H:105:GLY:HA3	1:H:609:ARG:O	1.44	1.16
1:H:235:GLU:HB3	1:I:815:LYS:HB3	1.22	1.16
1:I:824:ASN:O	1:I:825:ASN:HB2	1.45	1.16
1:K:268:PRO:HA	1:K:274:GLY:O	1.43	1.16
4:M:249:ASN:OD1	4:M:250:SER:N	1.77	1.16
7:7:20:GLY:O	7:7:22:TRP:HE3	1.27	1.16
1:B:155:LYS:NZ	1:B:259:ALA:HB3	1.59	1.16
1:B:196:GLU:HG3	1:C:831:TYR:CE1	1.78	1.16
1:E:321:PRO:CB	1:E:321:PRO:CG	2.20	1.16
1:H:657:PRO:HD2	5:Q:12:LEU:HD22	1.21	1.16
1:I:134:GLN:HA	1:I:154:THR:O	1.01	1.16
1:J:38:TYR:CZ	1:K:56:VAL:HG12	1.81	1.16
1:J:345:LEU:CD1	1:J:581:TYR:HD1	1.56	1.16
1:K:81:LYS:HB3	1:K:584:ASN:HB3	1.20	1.16
1:L:371:LEU:HD12	1:L:377:ARG:NH2	1.58	1.16
6:V:201:PHE:HB3	6:V:208:TYR:HE2	1.00	1.16
1:A:188:TYR:CD1	1:A:256:ILE:HG12	1.79	1.16
1:B:377:ARG:CB	1:B:388:VAL:CG2	2.22	1.16
1:C:724:MET:CA	1:C:729:VAL:CG2	2.22	1.16
1:C:734:ASN:O	1:C:736:ARG:HG3	1.40	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:438:SER:O	1:E:440:TRP:CZ3	1.97	1.16
1:F:242:PHE:CZ	1:F:289:ASN:ND2	2.14	1.16
1:G:159:VAL:HG12	1:H:840:GLN:CB	1.76	1.16
1:H:756:VAL:CG2	1:H:763:LYS:HG2	1.73	1.16
1:L:20:ALA:O	1:L:24:LEU:HD13	1.43	1.16
1:L:752:GLU:HG3	1:L:754:TYR:HE1	1.02	1.16
1:A:199:VAL:HG12	1:C:456:ASN:OD1	1.43	1.16
1:A:421:SER:HB2	1:A:423:TYR:CE1	1.79	1.16
1:B:214:ARG:NH2	1:B:286:GLU:OE2	1.79	1.16
1:B:670:ARG:NH2	1:B:945:PHE:CE2	1.92	1.16
1:C:724:MET:HA	1:C:729:VAL:CG2	1.75	1.16
1:J:345:LEU:CD1	1:J:581:TYR:CD1	2.29	1.16
2:N:141:PRO:HB3	2:N:152:ASP:OD2	1.44	1.16
1:A:480:TYR:OH	1:A:538:PRO:HD3	1.45	1.16
1:B:731:TRP:CE3	1:B:732:PRO:HD3	1.80	1.16
1:D:423:TYR:CE2	1:E:263:VAL:HG22	1.81	1.16
1:G:35:THR:HG22	7:7:24:GLU:OE1	1.41	1.16
1:H:760:ASN:OD1	5:R:54:VAL:HG21	1.44	1.16
1:L:134:GLN:CG	1:L:154:THR:HG23	1.76	1.16
1:B:134:GLN:NE2	1:B:285:THR:HG21	1.61	1.15
1:B:155:LYS:HZ1	1:B:259:ALA:HB3	0.99	1.15
1:B:811:TYR:CD1	1:B:857:PRO:HD2	1.81	1.15
1:C:167:ILE:HB	1:C:280:ASP:OD2	1.44	1.15
1:C:530:ASP:OD2	1:C:865:LEU:HD21	1.47	1.15
1:C:715:ASN:O	1:C:715:ASN:ND2	1.77	1.15
1:E:423:TYR:O	1:E:449:GLN:HG2	0.97	1.15
1:F:242:PHE:CE2	1:F:289:ASN:ND2	2.13	1.15
1:F:362:ASN:ND2	1:F:365:LEU:HB3	1.60	1.15
1:I:269:PRO:HA	1:I:274:GLY:O	1.41	1.15
1:A:17:GLY:O	1:A:48:PRO:HG2	1.45	1.15
1:B:196:GLU:HG2	1:B:197:PRO:HD3	1.18	1.15
1:F:657:PRO:HD2	5:R:12:LEU:HD22	1.18	1.15
1:F:808:GLU:HG2	1:F:814:TYR:CE2	1.78	1.15
1:F:856:VAL:HG23	1:F:857:PRO:HD2	1.24	1.15
1:G:13:MET:CE	1:H:925:VAL:HG23	1.77	1.15
1:G:35:THR:CG2	7:7:24:GLU:OE1	1.95	1.15
1:H:663:VAL:HG22	5:Q:17:LEU:HD11	1.17	1.15
2:N:202:LYS:HE2	2:N:204:ASP:CG	1.63	1.15
5:R:82:MET:HG3	5:R:88:SER:CB	1.75	1.15
1:J:650:ALA:HB1	1:J:942:ARG:NH2	1.60	1.15
5:P:18:THR:CG2	5:R:15:PRO:O	1.94	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:U:23:ALA:HB3	6:U:212:PHE:CD2	1.82	1.15
1:A:188:TYR:HA	1:A:192:THR:HB	1.20	1.15
1:B:835:THR:HG22	1:B:836:MET:H	1.05	1.15
1:C:193:PHE:CE1	1:C:284:TYR:HE1	1.60	1.15
1:C:250:GLN:NE2	1:C:251:PRO:CD	2.08	1.15
1:C:330:PHE:CD1	1:C:384:TRP:O	1.99	1.15
1:E:731:TRP:C	1:E:733:GLY:H	1.44	1.15
1:J:195:PRO:CA	1:J:198:GLN:HE21	1.58	1.15
1:J:201:GLU:OE1	1:K:299:TYR:OH	1.65	1.15
1:J:243:LYS:HD3	1:J:252:LYS:O	0.98	1.15
1:J:685:THR:HG21	1:J:913:PRO:HB2	1.27	1.15
5:R:44:ALA:CB	5:R:51:TYR:CZ	2.29	1.15
1:A:424:GLN:HB3	1:A:446:ILE:O	0.97	1.15
1:E:192:THR:HG23	1:E:284:TYR:CE1	1.82	1.15
1:K:33:ARG:HD3	7:8:12:ARG:HB3	1.17	1.15
1:L:429:THR:HG22	1:L:430:ASN:H	1.09	1.15
1:L:677:GLY:O	1:L:921:GLU:HG2	1.39	1.15
1:A:533:ASN:HA	1:A:713:TYR:CE2	1.82	1.14
1:A:783:VAL:HG13	1:A:784:PRO:HD2	1.16	1.14
1:F:150:GLU:HB2	1:F:152:ASP:OD1	1.46	1.14
1:G:673:ALA:HB3	1:G:943:THR:CG2	1.77	1.14
1:H:313:VAL:HG12	1:H:313:VAL:O	1.46	1.14
1:I:347:GLY:O	1:I:350:SER:O	1.65	1.14
1:A:736:ARG:HH12	1:C:621:PRO:HB3	1.06	1.14
1:B:116:TYR:CD2	1:C:520:ILE:HG22	1.64	1.14
1:D:416:GLY:O	1:D:457:VAL:CG1	1.94	1.14
1:E:305:ASP:O	1:E:305:ASP:OD2	1.61	1.14
1:H:620:PHE:HD2	1:H:622:MET:CG	1.60	1.14
1:H:942:ARG:HB3	1:H:946:SER:HA	1.27	1.14
1:J:345:LEU:HD12	1:J:581:TYR:CD1	1.82	1.14
1:L:134:GLN:CD	1:L:154:THR:CG2	2.16	1.14
1:C:60:ARG:NH2	6:U:93:ARG:NE	1.88	1.14
1:F:186:ASP:OD1	1:F:192:THR:HA	1.47	1.14
1:F:403:VAL:CG2	1:F:465:GLN:HB2	1.76	1.14
1:I:103:ILE:CG2	1:I:613:VAL:HG22	1.76	1.14
1:K:405:ASP:O	1:K:405:ASP:OD2	1.64	1.14
1:A:244:PRO:HD3	1:A:253:ASP:O	1.48	1.14
1:B:19:ASP:HB2	1:B:47:ASN:HB2	1.30	1.14
1:D:723:ILE:O	1:D:730:SER:HB3	1.48	1.14
1:F:170:GLN:HB2	1:F:185:LYS:HZ2	1.04	1.14
1:F:445:ALA:HB1	1:F:448:ARG:CB	1.78	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:603:VAL:HA	5:R:40:PRO:HB3	1.29	1.14
1:G:276:GLU:HB3	1:I:440:TRP:CZ2	1.83	1.14
1:H:443:ASP:O	1:H:444:ASP:OD1	1.63	1.14
1:K:63:ARG:HG2	1:K:66:LEU:HD21	1.22	1.14
1:K:371:LEU:HD23	1:K:377:ARG:HH21	0.97	1.14
1:B:435:ALA:HB1	1:C:270:ALA:HB2	1.19	1.14
1:C:151:LYS:O	1:C:154:THR:HB	1.43	1.14
1:H:510:ALA:HA	1:H:832:LEU:O	1.43	1.14
1:H:913:PRO:CB	5:P:8:PHE:HB2	1.68	1.14
1:J:54:HIS:CD2	1:J:55:ASP:OD1	2.00	1.14
1:J:277:TYR:CD1	1:J:277:TYR:HB2	1.63	1.14
1:K:150:GLU:HB2	1:K:152:ASP:OD1	1.46	1.14
1:F:277:TYR:HE1	1:F:279:ALA:HB2	1.03	1.13
1:F:445:ALA:CB	1:F:448:ARG:HB2	1.78	1.13
1:H:360:ASP:CB	1:H:942:ARG:NH2	2.11	1.13
1:J:880:MET:SD	1:K:38:TYR:HB2	1.87	1.13
1:J:909:PRO:HG2	5:Q:48:THR:O	1.36	1.13
1:K:155:LYS:NZ	1:K:283:LEU:HB3	1.61	1.13
1:K:927:ARG:HB2	1:K:939:VAL:HG22	1.30	1.13
1:L:371:LEU:HD12	1:L:377:ARG:CZ	1.76	1.13
1:L:476:ASN:O	1:L:480:TYR:HD2	1.19	1.13
2:N:326:VAL:H	3:O:7:VAL:HB	1.13	1.13
6:V:201:PHE:HD2	6:V:208:TYR:CD2	1.64	1.13
1:A:28:LEU:HD22	1:B:639:HIS:CD2	1.84	1.13
1:B:116:TYR:CG	1:C:520:ILE:CG2	2.21	1.13
1:B:907:VAL:CG2	1:B:908:ASP:H	1.58	1.13
1:F:241:LYS:HD3	1:F:256:ILE:HG13	1.25	1.13
1:G:443:ASP:HB3	1:H:150:GLU:HB3	1.25	1.13
1:H:817:VAL:O	1:H:817:VAL:HG23	1.33	1.13
1:J:514:VAL:CG2	1:J:514:VAL:O	1.93	1.13
1:L:241:LYS:HG2	1:L:286:GLU:CD	1.67	1.13
1:L:405:ASP:O	1:L:405:ASP:OD1	1.66	1.13
1:B:79:LEU:CD2	1:B:335:TYR:OH	1.95	1.13
1:B:377:ARG:CB	1:B:388:VAL:HG21	1.78	1.13
1:C:922:VAL:HG23	1:C:944:PRO:CD	1.77	1.13
1:L:720:LYS:HD3	1:L:742:GLU:CD	1.69	1.13
1:C:747:ARG:NH2	1:C:754:TYR:HB2	1.62	1.13
1:D:823:HIS:CB	1:F:196:GLU:OE2	1.96	1.13
1:F:193:PHE:CE1	1:F:284:TYR:CE1	2.36	1.13
1:G:925:VAL:HG11	1:I:46:ARG:NH1	1.64	1.13
1:I:929:HIS:HD2	1:I:931:PRO:HD3	1.07	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:66:LEU:HD13	1:J:619:PHE:CE1	1.73	1.13
1:K:20:ALA:CB	7:8:9:LEU:HD12	1.79	1.13
1:L:159:VAL:O	1:L:159:VAL:HG12	1.40	1.13
2:N:326:VAL:N	3:O:7:VAL:HB	1.64	1.13
1:A:417:THR:CG2	1:A:453:CYS:SG	2.37	1.12
1:C:193:PHE:CE1	1:C:284:TYR:CD1	2.34	1.13
1:C:731:TRP:HB3	1:C:732:PRO:HD3	1.28	1.12
1:D:134:GLN:HB2	1:D:155:LYS:HG2	1.23	1.12
1:D:200:GLY:O	1:D:206:GLU:HG3	1.49	1.13
1:D:260:TYR:CD2	1:D:282:ILE:HG22	1.82	1.13
1:E:192:THR:HG22	1:E:193:PHE:CD1	1.83	1.12
1:F:217:LYS:CG	1:F:218:LYS:H	1.61	1.12
1:H:155:LYS:HZ1	1:H:285:THR:HB	0.97	1.13
1:H:620:PHE:CE2	1:H:622:MET:HG2	1.84	1.13
1:I:258:PHE:HE2	1:I:284:TYR:CE2	1.65	1.13
1:F:398:ILE:HD11	1:F:473:LEU:HD11	1.30	1.12
1:H:445:ALA:HB3	1:H:449:GLN:HA	1.19	1.12
1:J:56:VAL:HG11	1:K:882:MET:HE2	1.18	1.12
1:L:497:ASN:O	1:L:500:THR:CG2	1.97	1.12
5:P:12:LEU:HD21	5:P:17:LEU:HD21	1.25	1.12
5:P:16:TYR:CD2	5:Q:18:THR:CG2	2.32	1.12
1:A:179:THR:C	1:A:180:ALA:N	2.03	1.12
1:D:79:LEU:CD1	1:D:584:ASN:HB3	1.79	1.12
1:H:360:ASP:CB	1:H:942:ARG:HH22	1.62	1.12
1:H:425:GLY:O	1:H:440:TRP:CB	1.95	1.12
1:I:514:VAL:O	1:I:514:VAL:CG1	1.93	1.12
1:J:358:LEU:CD2	1:J:947:ALA:HB2	1.80	1.12
1:J:677:GLY:H	1:J:921:GLU:HG3	1.11	1.12
1:J:756:VAL:HG11	1:J:763:LYS:HA	1.25	1.12
1:A:831:TYR:HB3	1:A:838:GLN:HE21	0.98	1.12
1:B:127:LYS:NZ	1:C:405:ASP:OD2	1.81	1.12
1:B:731:TRP:HE3	1:B:732:PRO:HD3	1.03	1.12
1:C:149:GLN:HG2	1:C:149:GLN:O	1.46	1.12
1:D:759:CYS:SG	1:D:864:PHE:HB3	1.90	1.12
1:G:88:VAL:CG1	1:G:577:GLY:O	1.97	1.12
1:I:134:GLN:CA	1:I:154:THR:O	1.96	1.12
1:J:345:LEU:HD12	1:J:581:TYR:HD1	0.99	1.12
1:L:66:LEU:HD12	1:L:619:PHE:CZ	1.82	1.12
1:A:445:ALA:H	1:B:152:ASP:HA	1.10	1.12
1:A:813:ASP:CG	1:A:813:ASP:O	1.86	1.12
1:B:775:ASN:CB	1:B:880:MET:SD	2.37	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:191:LYS:O	1:F:191:LYS:HG3	1.48	1.12
1:F:831:TYR:CB	1:F:838:GLN:NE2	2.12	1.12
1:H:859:VAL:HG23	5:R:58:SER:HB3	1.29	1.12
1:J:836:MET:HE1	1:L:203:ASN:HA	1.23	1.12
1:L:649:ALA:HB1	1:L:920:PHE:O	0.95	1.12
2:N:202:LYS:HE2	2:N:204:ASP:OD1	1.46	1.12
5:R:12:LEU:HD23	5:R:17:LEU:HD11	1.22	1.12
7:1:24:GLU:HA	7:1:24:GLU:OE1	1.35	1.12
1:A:278:LYS:NZ	1:C:437:GLU:OE2	1.83	1.12
1:B:134:GLN:HA	1:B:154:THR:O	1.48	1.12
1:B:682:ARG:NH2	1:B:910:MET:CB	2.07	1.12
1:D:941:LEU:HD23	1:F:13:MET:HG3	1.22	1.12
1:F:103:ILE:HB	1:F:560:ILE:HD11	1.13	1.12
1:H:663:VAL:CG2	5:Q:17:LEU:HD11	1.78	1.12
2:N:145:VAL:CG1	2:N:146:GLU:N	2.06	1.12
7:2:9:LEU:O	7:2:9:LEU:HG	1.37	1.12
1:A:193:PHE:CZ	1:A:214:ARG:N	2.15	1.11
1:A:831:TYR:HB3	1:A:838:GLN:NE2	1.65	1.11
1:B:135:TRP:NE1	1:B:156:THR:HG21	1.62	1.11
1:B:241:LYS:CD	1:B:286:GLU:OE1	1.98	1.11
1:C:824:ASN:HA	1:C:844:ALA:HB1	1.23	1.11
1:C:837:ARG:HG2	1:C:837:ARG:O	1.43	1.11
1:E:282:ILE:HG12	1:E:283:LEU:H	1.14	1.11
1:F:648:SER:HB2	1:F:922:VAL:O	1.48	1.11
1:H:364:GLU:OE2	1:H:364:GLU:HA	1.49	1.11
1:J:446:ILE:HG23	1:J:447:SER:N	1.59	1.11
1:J:909:PRO:HG3	5:Q:48:THR:O	1.37	1.11
4:M:388:TRP:C	4:M:390:PRO:HD3	1.71	1.11
5:P:66:ALA:O	5:P:70:ALA:HB2	1.50	1.11
1:C:241:LYS:HZ3	1:C:256:ILE:HD12	1.07	1.11
1:C:363:THR:O	1:C:363:THR:HG23	1.50	1.11
1:C:744:GLU:O	1:C:762:THR:CG2	1.97	1.11
1:D:244:PRO:HD2	1:D:253:ASP:O	1.44	1.11
1:E:361:ARG:NH2	1:E:567:PHE:CE2	2.18	1.11
1:E:731:TRP:N	1:E:732:PRO:HD2	1.39	1.11
1:E:745:ILE:HG12	1:E:765:TRP:CE2	1.84	1.11
1:F:21:SER:HB3	7:4:11:PRO:HG2	1.13	1.11
1:F:361:ARG:HB3	1:F:361:ARG:HH11	1.05	1.11
1:I:135:TRP:HB3	1:I:307:SER:O	0.97	1.11
1:I:760:ASN:ND2	5:S:54:VAL:HG21	1.66	1.11
1:J:573:LEU:CD1	1:J:634:LEU:HD11	1.80	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:429:THR:HG22	1:K:430:ASN:ND2	1.62	1.11
1:K:445:ALA:HB2	1:L:153:VAL:HG23	1.27	1.11
1:L:258:PHE:CE2	1:L:284:TYR:CE2	2.38	1.11
1:B:339:THR:CA	1:B:342:MET:HE2	1.80	1.11
1:B:667:ILE:HD11	1:B:920:PHE:CZ	1.84	1.11
1:B:670:ARG:HH22	2:N:92:GLU:CD	1.51	1.11
1:C:56:VAL:HG23	7:1:24:GLU:CG	1.80	1.11
1:E:543:LEU:HD12	1:E:543:LEU:C	1.69	1.11
1:F:67:ARG:HG2	1:F:67:ARG:O	1.33	1.11
1:F:136:GLU:HG2	1:F:218:LYS:HE3	1.17	1.11
1:I:398:ILE:HD12	1:I:398:ILE:O	1.49	1.11
1:K:172:LEU:HD21	1:K:193:PHE:CE1	1.84	1.11
1:K:949:ASN:OD1	6:U:34:LEU:HD21	1.51	1.11
2:N:441:THR:HG21	2:N:443:VAL:HG13	1.33	1.11
5:P:41:VAL:O	5:P:43:PRO:HD2	1.44	1.11
5:Q:126:ARG:CB	5:Q:129:GLN:NE2	2.12	1.11
6:U:23:ALA:HB3	6:U:212:PHE:HD2	0.98	1.11
1:A:783:VAL:CG1	1:A:784:PRO:HD2	1.79	1.11
1:B:187:ILE:HG13	1:B:191:LYS:HD3	1.26	1.11
1:C:75:ALA:HB2	1:C:80:TYR:HD1	1.08	1.11
1:D:10:TRP:CH2	1:E:943:THR:HG23	1.83	1.11
1:D:682:ARG:NH1	1:D:910:MET:SD	2.24	1.11
1:E:180:ALA:CB	1:E:182:ASN:ND2	2.13	1.11
1:E:444:ASP:HB3	1:E:449:GLN:HE22	1.11	1.11
1:F:489:PRO:O	1:F:492:VAL:HG22	1.51	1.11
1:H:620:PHE:CD2	1:H:622:MET:CG	2.33	1.11
1:I:55:ASP:HB3	1:I:626:THR:HG21	1.26	1.11
1:J:98:SER:HB3	1:K:778:TYR:O	1.51	1.11
1:J:134:GLN:HG3	1:J:154:THR:HG23	1.31	1.11
1:K:726:ASP:OD1	1:K:726:ASP:O	1.68	1.11
6:V:69:LEU:HD23	6:V:69:LEU:N	1.62	1.11
1:A:681:THR:CG2	1:A:682:ARG:N	2.14	1.11
1:B:635:ARG:HD3	1:B:931:PRO:O	1.49	1.11
1:C:724:MET:CG	1:C:729:VAL:CB	2.19	1.11
1:D:804:GLN:OE1	1:F:556:VAL:CG1	1.99	1.11
1:E:423:TYR:O	1:E:449:GLN:CB	1.99	1.11
1:F:405:ASP:OD1	1:F:405:ASP:O	1.65	1.11
1:J:473:LEU:O	1:J:477:VAL:CG1	1.97	1.11
1:K:315:GLN:HE22	1:K:836:MET:HB2	1.08	1.11
1:K:756:VAL:HG13	1:K:763:LYS:HA	1.13	1.11
1:L:453:CYS:SG	1:L:453:CYS:O	2.09	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:609:ARG:HH21	5:Q:66:ALA:CA	1.64	1.11
5:P:14:SER:CB	5:P:15:PRO:HD3	1.79	1.11
5:S:30:ASN:HA	5:S:46:SER:CB	1.81	1.11
1:A:838:GLN:HB2	1:C:198:GLN:CD	1.69	1.10
1:C:936:ILE:O	1:C:936:ILE:HG13	1.39	1.10
1:E:103:ILE:CG2	1:E:610:PHE:CD2	2.22	1.10
1:E:922:VAL:HG12	1:E:944:PRO:HG2	1.21	1.10
1:F:730:SER:O	1:F:732:PRO:HD2	1.51	1.10
1:H:94:LEU:HD12	1:H:619:PHE:HD1	0.98	1.10
1:H:360:ASP:HB3	1:H:942:ARG:HH22	0.99	1.10
1:H:747:ARG:NH1	1:H:754:TYR:CD1	2.19	1.10
1:J:572:LEU:HD21	1:J:643:PHE:CE2	1.85	1.10
1:L:609:ARG:NH2	5:Q:66:ALA:CB	2.14	1.10
2:N:230:HIS:CE1	2:N:376:PRO:CD	2.34	1.10
5:R:34:SER:HA	5:R:43:PRO:HG2	1.21	1.10
1:B:79:LEU:CD2	1:B:335:TYR:CE1	2.34	1.10
1:B:135:TRP:HE1	1:B:156:THR:HG21	1.07	1.10
1:B:433:ASP:CG	1:B:433:ASP:HB3	1.54	1.10
1:C:724:MET:HG3	1:C:729:VAL:HG21	1.27	1.10
1:H:445:ALA:N	1:H:449:GLN:OE1	1.84	1.10
1:I:517:TYR:HA	1:I:520:ILE:HD11	1.11	1.10
1:L:648:SER:O	1:L:922:VAL:O	1.67	1.10
6:V:10:MET:HA	6:V:10:MET:HE3	1.23	1.10
1:A:198:GLN:HG2	1:B:838:GLN:HB2	1.32	1.10
1:B:193:PHE:CE2	1:B:198:GLN:OE1	2.02	1.10
1:D:22:GLU:HG2	7:4:18:PHE:CE2	1.86	1.10
1:D:244:PRO:HD3	1:D:253:ASP:O	1.51	1.10
1:E:644:ASN:HB3	1:E:925:VAL:HG12	1.10	1.10
1:G:416:GLY:O	1:G:457:VAL:CG1	1.99	1.10
1:H:445:ALA:CA	1:H:449:GLN:OE1	2.00	1.10
1:I:756:VAL:CG2	1:I:757:ALA:N	2.15	1.10
1:I:929:HIS:CD2	1:I:931:PRO:HD3	1.85	1.10
1:K:450:ASN:CB	1:L:156:THR:HA	1.82	1.10
1:L:7:MET:HG2	1:L:8:PRO:HD2	1.30	1.10
1:L:906:GLU:HG3	1:L:906:GLU:O	1.46	1.10
5:P:14:SER:OG	5:P:15:PRO:CD	1.98	1.10
6:U:169:LEU:CD1	7:1:30:LEU:CA	2.23	1.10
1:B:202:GLU:HG2	1:C:299:TYR:CE2	1.86	1.10
1:B:456:ASN:ND2	1:C:198:GLN:OE1	1.83	1.10
1:B:695:PHE:HB3	2:N:72:GLN:HE22	1.17	1.10
1:C:70:PRO:HG2	1:C:73:ARG:HE	0.99	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:320:ARG:HH11	1:F:597:LEU:HD11	1.16	1.10
1:F:635:ARG:NH2	1:F:932:HIS:O	1.83	1.10
1:G:600:ASP:OD2	1:G:700:VAL:O	1.69	1.10
1:G:723:ILE:HG23	1:G:903:MET:HG2	1.15	1.10
1:H:20:ALA:HB3	7:5:9:LEU:HD12	1.17	1.10
1:I:258:PHE:CE2	1:I:284:TYR:CE2	2.39	1.10
1:I:313:VAL:O	1:I:313:VAL:HG12	1.41	1.10
1:I:656:ILE:HG21	1:I:663:VAL:HG21	1.31	1.10
1:L:473:LEU:O	1:L:477:VAL:HG12	1.51	1.10
1:L:731:TRP:O	1:L:731:TRP:CG	2.03	1.10
1:A:446:ILE:HG13	1:A:447:SER:N	1.62	1.10
1:B:83:ARG:HB2	1:B:582:GLU:HB2	1.12	1.10
1:C:731:TRP:HB3	1:C:732:PRO:CD	1.81	1.10
1:E:831:TYR:CB	1:E:838:GLN:NE2	2.05	1.10
1:E:837:ARG:O	1:E:837:ARG:HG2	1.47	1.10
1:F:740:PRO:HB2	1:J:339:THR:CG2	1.80	1.10
1:H:366:SER:HB2	1:H:647:LEU:HB2	1.18	1.10
1:H:423:TYR:O	1:H:449:GLN:HB3	1.49	1.10
1:I:649:ALA:CB	1:I:920:PHE:O	1.98	1.10
1:J:111:PRO:HD2	1:J:604:ASP:HB3	1.34	1.10
1:K:162:THR:HG21	1:K:193:PHE:CE2	1.85	1.10
1:L:241:LYS:HG2	1:L:286:GLU:OE1	0.93	1.10
2:N:182:LEU:HD21	2:N:446:ARG:HG3	1.26	1.10
2:N:186:LEU:CD1	2:N:190:ARG:HH11	1.63	1.10
1:A:204:TRP:CE3	1:B:313:VAL:CG1	2.35	1.09
1:B:831:TYR:CB	1:B:838:GLN:HE21	1.54	1.09
1:C:204:TRP:O	1:C:205:GLN:HG2	1.50	1.09
1:D:60:ARG:HH21	1:D:624:HIS:HB2	1.12	1.09
1:E:94:LEU:HD13	1:E:619:PHE:CE2	1.87	1.09
1:F:103:ILE:H	1:F:560:ILE:CD1	1.64	1.09
1:H:846:PHE:CD2	1:H:847:PRO:HD3	1.87	1.09
1:I:193:PHE:CE1	1:I:284:TYR:CD1	2.40	1.09
1:I:398:ILE:O	1:I:398:ILE:CD1	2.00	1.09
1:J:66:LEU:HD11	1:J:619:PHE:CD1	1.86	1.09
1:J:400:ASN:ND2	1:J:520:ILE:HA	1.65	1.09
1:K:88:VAL:O	1:K:89:GLY:O	1.69	1.09
5:R:34:SER:C	5:R:43:PRO:HG3	1.57	1.09
5:R:35:THR:N	5:R:43:PRO:CG	2.06	1.09
7:8:25:ILE:O	7:8:25:ILE:HG13	1.49	1.09
1:A:331:VAL:HG12	1:A:565:LYS:NZ	1.66	1.09
1:C:811:TYR:CD1	1:C:856:VAL:HG23	1.86	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:446:ILE:HD12	1:E:141:GLN:HB2	1.30	1.09
1:E:438:SER:OG	1:E:440:TRP:CZ3	2.05	1.09
1:F:277:TYR:CE1	1:F:279:ALA:HB2	1.87	1.09
1:F:691:LEU:H	1:F:691:LEU:HD22	1.12	1.09
1:F:829:THR:HG22	1:F:830:GLY:H	1.11	1.09
1:G:513:LEU:HB2	1:G:819:LEU:HD11	1.34	1.09
1:G:925:VAL:HG11	1:I:46:ARG:HH12	1.05	1.09
1:H:659:LYS:NZ	1:H:659:LYS:CB	2.07	1.09
1:K:241:LYS:HD3	1:K:256:ILE:HG12	1.16	1.09
1:K:910:MET:HE2	1:K:914:THR:CB	1.81	1.09
1:L:872:ARG:HH11	1:L:872:ARG:HB3	1.08	1.09
1:B:495:PRO:HG2	1:B:503:TYR:HB2	1.34	1.09
1:C:229:PHE:O	1:C:229:PHE:CD2	2.05	1.09
1:C:241:LYS:HE2	1:C:256:ILE:HD11	1.16	1.09
1:D:752:GLU:O	1:D:754:TYR:CD1	2.06	1.09
1:F:866:CYS:SG	1:F:869:VAL:HG11	1.93	1.09
1:G:724:MET:HE3	1:G:729:VAL:HA	1.14	1.09
1:H:346:ALA:HB2	1:H:353:ASN:HA	1.16	1.09
1:J:533:ASN:HB3	1:J:536:ASN:ND2	1.66	1.09
1:K:291:GLU:O	1:K:293:PRO:HD3	1.50	1.09
1:K:723:ILE:O	1:K:730:SER:HA	1.50	1.09
1:K:937:GLU:OE1	6:U:37:GLY:N	1.86	1.09
1:L:20:ALA:CB	7:9:9:LEU:HD13	1.83	1.09
1:L:193:PHE:CZ	1:L:284:TYR:CE1	2.39	1.09
6:U:207:LEU:HG	6:U:207:LEU:O	1.44	1.09
6:U:209:PRO:CB	6:U:212:PHE:HE1	1.60	1.09
1:B:756:VAL:HG23	1:B:763:LYS:HG2	1.32	1.09
1:E:204:TRP:HE1	1:E:415:ASN:HB2	1.14	1.09
1:F:666:SER:HB2	5:R:16:TYR:CE2	1.81	1.09
1:F:808:GLU:HG3	1:F:814:TYR:CE2	1.86	1.09
1:F:950:ALA:CB	1:H:893:LEU:CG	2.24	1.09
1:G:356:VAL:HG12	1:G:940:TYR:CE1	1.88	1.09
1:H:46:ARG:HH11	1:H:46:ARG:HG3	1.10	1.09
1:H:269:PRO:CG	1:H:277:TYR:HD2	1.64	1.09
1:J:52:PRO:HD3	7:9:23:ASN:ND2	1.65	1.09
1:J:278:LYS:CD	1:L:438:SER:HB3	1.82	1.09
1:J:731:TRP:CD1	1:J:732:PRO:HD3	1.86	1.09
1:K:241:LYS:HD2	1:K:256:ILE:HD11	1.12	1.09
1:K:450:ASN:ND2	1:L:154:THR:O	1.86	1.09
1:L:20:ALA:HB1	7:9:9:LEU:HD13	1.25	1.09
1:B:134:GLN:OE1	1:B:151:LYS:CE	2.01	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:456:ASN:HB2	1:F:837:ARG:CZ	1.83	1.09
1:F:47:ASN:OD1	7:4:7:ALA:HB1	1.53	1.09
1:F:740:PRO:O	1:J:339:THR:HG21	1.50	1.09
1:F:866:CYS:SG	1:F:869:VAL:CG1	2.41	1.09
1:H:943:THR:OG1	1:H:944:PRO:HD3	0.93	1.09
1:J:276:GLU:HB2	1:L:440:TRP:CZ3	1.87	1.09
1:K:162:THR:CG2	1:K:163:GLY:N	2.05	1.09
2:N:145:VAL:HG13	2:N:146:GLU:H	1.14	1.09
5:P:12:LEU:HD11	5:P:17:LEU:HD23	1.17	1.09
1:B:921:GLU:O	1:B:922:VAL:HG13	1.52	1.08
1:C:327:ARG:HH12	1:C:705:ILE:HG13	0.95	1.08
1:C:348:GLN:O	1:C:348:GLN:HG3	1.50	1.08
1:D:724:MET:HG3	1:D:728:SER:O	1.52	1.08
1:D:823:HIS:HB3	1:F:196:GLU:OE2	1.53	1.08
1:E:77:THR:HA	5:P:76:ARG:NH2	1.62	1.08
1:F:929:HIS:O	1:F:931:PRO:HD3	1.51	1.08
1:F:950:ALA:CB	1:H:893:LEU:CD1	1.91	1.08
1:J:573:LEU:HD11	1:J:634:LEU:HD11	1.33	1.08
1:K:135:TRP:HB3	1:K:307:SER:HB3	1.35	1.08
1:L:20:ALA:HA	1:L:23:TYR:CD2	1.86	1.08
2:N:186:LEU:CD1	2:N:190:ARG:NH1	2.16	1.08
4:M:181:SER:O	4:M:183:PRO:O	1.71	1.08
6:V:215:ASN:O	6:V:223:VAL:HG13	1.50	1.08
1:B:194:GLN:NE2	1:B:196:GLU:OE2	1.85	1.08
1:C:427:LYS:HG2	1:C:428:ILE:H	1.16	1.08
1:E:36:ASP:OD2	1:E:36:ASP:O	1.71	1.08
1:E:65:THR:HG21	1:F:738:LEU:HD12	1.34	1.08
1:G:141:GLN:HB3	1:I:446:ILE:HD12	1.26	1.08
1:G:277:TYR:O	1:I:440:TRP:CZ3	2.06	1.08
1:H:222:MET:HG2	1:H:307:SER:HB3	1.35	1.08
1:H:445:ALA:O	1:H:449:GLN:OE1	1.70	1.08
1:I:38:TYR:OH	7:6:24:GLU:HB2	0.93	1.08
1:C:240:ALA:O	1:C:288:VAL:HG12	1.51	1.08
1:C:295:THR:HG22	1:C:318:PRO:HA	1.31	1.08
1:C:409:ASN:ND2	1:C:464:LEU:HB2	1.68	1.08
1:D:681:THR:OG1	1:D:870:MET:HB2	1.53	1.08
1:D:804:GLN:HE22	1:F:551:GLY:HA3	1.18	1.08
1:F:602:ARG:HB3	5:R:35:THR:HG21	1.18	1.08
1:G:204:TRP:HE3	1:H:313:VAL:HG22	1.09	1.08
1:H:104:ARG:NH1	1:I:752:GLU:HA	1.69	1.08
1:K:162:THR:HG23	1:K:163:GLY:H	1.04	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:162:THR:HG22	1:K:163:GLY:N	1.68	1.08
1:L:20:ALA:CA	1:L:23:TYR:CE2	2.35	1.08
1:L:134:GLN:HG2	1:L:155:LYS:N	1.67	1.08
1:L:670:ARG:HH22	1:L:945:PHE:C	1.55	1.08
2:N:455:ARG:HG3	2:N:456:PRO:HD2	1.17	1.08
4:M:273:PHE:CE2	6:U:62:THR:HG23	1.89	1.08
5:P:35:THR:HG22	5:P:36:VAL:O	1.50	1.08
6:U:23:ALA:CB	6:U:212:PHE:HD2	1.65	1.08
7:2:28:SER:O	7:2:29:GLN:HB2	1.48	1.08
1:A:348:GLN:HG2	1:A:348:GLN:O	1.32	1.08
1:B:536:ASN:O	1:B:537:HIS:HB2	1.54	1.08
1:B:943:THR:HG23	1:B:944:PRO:HD3	1.13	1.08
1:C:352:LEU:CD1	1:J:63:ARG:HG3	1.84	1.08
1:G:151:LYS:O	1:G:154:THR:HB	1.52	1.08
1:G:157:PHE:CE1	1:G:312:LEU:HD21	1.88	1.08
1:G:161:ALA:HB1	1:G:198:GLN:HE21	1.15	1.08
1:G:421:SER:CB	1:G:423:TYR:HE1	1.66	1.08
1:H:366:SER:HB2	1:H:647:LEU:HB3	1.34	1.08
1:J:517:TYR:O	1:J:520:ILE:HG13	1.53	1.08
5:R:34:SER:CA	5:R:43:PRO:CG	2.23	1.08
1:C:356:VAL:CG2	1:C:940:TYR:CE1	2.36	1.08
1:C:724:MET:CB	1:C:729:VAL:CG2	2.32	1.08
1:D:427:LYS:NZ	1:D:441:GLU:OE2	1.87	1.08
1:D:587:LYS:HB3	1:D:610:PHE:HE1	1.15	1.08
1:F:760:ASN:CG	5:P:54:VAL:HG21	1.75	1.08
1:G:49:THR:HG22	1:G:49:THR:O	1.34	1.08
1:I:267:SER:CB	1:I:276:GLU:HA	1.82	1.08
1:I:364:GLU:OE2	1:I:364:GLU:HA	1.46	1.08
1:J:446:ILE:CG2	1:J:447:SER:H	1.67	1.08
1:J:520:ILE:H	1:J:520:ILE:HD12	1.00	1.08
1:J:727:SER:HA	5:Q:20:ARG:HH22	0.99	1.08
1:J:770:MET:HE2	1:J:774:TYR:HE1	1.07	1.08
1:J:926:VAL:HG13	1:J:940:TYR:CD2	1.87	1.08
1:K:443:ASP:HB3	1:L:150:GLU:HB3	1.29	1.08
1:L:137:THR:HG22	1:L:138:LYS:H	1.04	1.08
1:L:267:SER:HA	1:L:277:TYR:CE2	1.88	1.08
5:P:31:VAL:O	5:P:46:SER:HB3	1.54	1.08
5:R:12:LEU:CD2	5:R:17:LEU:HD11	1.81	1.08
1:B:42:GLY:HA2	7:1:9:LEU:CD2	1.83	1.07
1:B:69:VAL:CG2	1:B:70:PRO:HD2	1.84	1.07
1:B:131:ASN:HB2	1:B:132:PRO:HD2	1.32	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:154:THR:HG23	1:D:155:LYS:HG3	1.30	1.07
1:D:201:GLU:O	1:E:836:MET:HE1	0.91	1.07
1:E:52:PRO:HG3	7:3:23:ASN:CB	1.83	1.07
1:F:1:MET:HB3	1:F:3:THR:CG2	1.82	1.07
1:I:188:TYR:HB2	1:I:256:ILE:HD13	1.30	1.07
1:L:199:VAL:HG11	1:L:206:GLU:CG	1.84	1.07
6:V:19:LEU:HD23	6:V:72:ARG:HD2	1.35	1.07
1:C:186:ASP:OD1	1:C:191:LYS:HD3	1.53	1.07
1:D:79:LEU:HD22	1:D:341:ASN:ND2	1.68	1.07
1:D:169:ASN:ND2	1:F:432:ASN:CB	2.16	1.07
1:H:700:VAL:HG11	5:Q:34:SER:CB	1.84	1.07
1:I:102:ASP:OD2	1:I:102:ASP:O	1.72	1.07
1:I:758:GLN:O	1:I:862:LYS:HD3	1.54	1.07
1:J:54:HIS:HD2	1:J:55:ASP:OD1	1.31	1.07
1:J:269:PRO:HB3	1:J:274:GLY:O	0.90	1.07
1:K:249:GLU:O	1:K:250:GLN:CG	2.01	1.07
1:K:676:ARG:O	1:K:875:PHE:HB3	1.47	1.07
1:L:677:GLY:O	1:L:921:GLU:HG3	1.47	1.07
3:O:18:GLY:O	3:O:19:TYR:CD1	2.06	1.07
5:P:18:THR:HG22	5:R:15:PRO:O	1.54	1.07
1:B:42:GLY:O	7:1:9:LEU:HB3	1.55	1.07
1:B:242:PHE:HE2	1:B:288:VAL:CA	1.67	1.07
1:B:714:LEU:HD11	1:B:910:MET:HE1	1.09	1.07
1:B:924:ASP:HA	1:B:941:LEU:O	1.54	1.07
1:E:77:THR:CA	5:P:76:ARG:HH21	1.60	1.07
1:G:141:GLN:CG	1:I:446:ILE:HD11	1.83	1.07
1:G:729:VAL:HG13	1:G:733:GLY:HA3	1.30	1.07
1:G:942:ARG:HD3	1:G:945:PHE:O	1.54	1.07
1:H:19:ASP:HB2	1:H:47:ASN:HB3	1.36	1.07
1:H:148:GLN:NE2	1:H:150:GLU:OE2	1.86	1.07
1:H:659:LYS:CB	1:H:659:LYS:HZ2	1.61	1.07
1:H:837:ARG:HG2	1:H:837:ARG:O	1.34	1.07
1:I:267:SER:HB2	1:I:276:GLU:C	1.74	1.07
1:K:196:GLU:HG2	1:K:197:PRO:HD3	1.15	1.07
1:K:824:ASN:HA	1:K:844:ALA:HB1	1.28	1.07
1:L:837:ARG:O	1:L:837:ARG:HG3	1.40	1.07
5:S:36:VAL:O	5:S:36:VAL:HG13	1.54	1.07
7:1:18:PHE:CD1	7:1:22:TRP:CE3	2.42	1.07
1:B:368:GLN:NE2	1:B:377:ARG:NH1	2.01	1.07
1:C:676:ARG:O	1:C:921:GLU:HB2	1.51	1.07
1:D:472:PHE:HE1	1:D:539:ARG:CZ	1.68	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:313:VAL:CB	1:I:203:ASN:ND2	2.13	1.07
1:H:19:ASP:HB2	1:H:47:ASN:CB	1.82	1.07
1:H:444:ASP:HB3	1:H:449:GLN:HE22	1.06	1.07
1:I:258:PHE:CE2	1:I:284:TYR:HE2	1.71	1.07
1:I:385:ASN:HD21	1:I:546:ARG:HG3	1.17	1.07
1:J:278:LYS:HD2	1:L:438:SER:HB3	1.07	1.07
1:K:673:ALA:O	1:K:889:GLY:O	1.72	1.07
1:L:268:PRO:HD2	1:L:277:TYR:HE2	1.15	1.07
1:L:348:GLN:O	1:L:351:GLN:OE1	1.72	1.07
1:L:718:PHE:O	1:L:745:ILE:CG2	2.02	1.07
1:L:744:GLU:O	1:L:765:TRP:HB2	1.50	1.07
1:A:167:ILE:CG2	1:A:282:ILE:HD12	1.85	1.07
1:A:197:PRO:CD	1:B:831:TYR:HE1	1.67	1.07
1:A:681:THR:HG23	1:A:682:ARG:H	1.19	1.07
1:B:154:THR:OG1	1:B:155:LYS:HG2	1.54	1.07
1:B:364:GLU:HA	1:B:364:GLU:OE1	1.51	1.07
1:B:836:MET:O	1:B:837:ARG:CG	2.02	1.07
1:C:243:LYS:HD3	1:C:243:LYS:H	1.14	1.07
1:C:893:LEU:HD21	6:U:227:ASP:HB3	1.37	1.07
1:E:103:ILE:HG21	1:E:610:PHE:CE2	1.88	1.07
1:G:161:ALA:CB	1:G:198:GLN:HE21	1.63	1.07
1:G:356:VAL:CG1	1:G:940:TYR:CE1	2.38	1.07
1:G:635:ARG:HH11	1:G:635:ARG:HG3	1.18	1.07
1:G:723:ILE:CG2	1:G:903:MET:HG2	1.84	1.07
1:G:906:GLU:OE2	1:G:906:GLU:O	1.70	1.07
1:I:38:TYR:HH	7:6:24:GLU:CB	1.58	1.07
1:K:819:LEU:O	1:K:819:LEU:HD23	1.55	1.07
1:A:445:ALA:N	1:B:152:ASP:HA	1.69	1.06
1:B:188:TYR:HA	1:B:192:THR:HG23	1.19	1.06
1:D:22:GLU:HG2	7:4:18:PHE:HE2	0.98	1.06
1:F:203:ASN:OD1	1:F:204:TRP:HD1	1.35	1.06
1:G:13:MET:HE2	1:H:925:VAL:HG23	1.30	1.06
1:I:55:ASP:HB3	1:I:626:THR:CG2	1.84	1.06
1:I:298:VAL:HG12	1:I:316:SER:HA	1.36	1.06
1:J:333:LEU:HD12	1:J:592:ILE:HG21	1.36	1.06
1:J:831:TYR:HE1	1:L:197:PRO:HD3	1.14	1.06
1:K:172:LEU:CD2	1:K:193:PHE:CZ	2.38	1.06
6:V:201:PHE:HB3	6:V:208:TYR:CE2	1.89	1.06
1:A:197:PRO:HG3	1:B:831:TYR:CE1	1.89	1.06
1:A:313:VAL:CG2	1:C:204:TRP:HE3	1.68	1.06
1:B:822:GLN:NE2	1:B:846:PHE:HD1	1.37	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:79:LEU:HD13	1:D:335:TYR:CE2	1.89	1.06
1:F:167:ILE:HD13	1:F:282:ILE:HG23	1.33	1.06
1:F:748:SER:O	5:P:55:GLY:HA2	1.52	1.06
1:F:913:PRO:HG3	5:Q:7:ALA:HB3	1.36	1.06
1:G:276:GLU:HB3	1:I:440:TRP:CH2	1.89	1.06
1:G:421:SER:CB	1:G:423:TYR:CE1	2.36	1.06
1:H:92:ARG:HH11	1:H:92:ARG:CG	1.65	1.06
1:I:173:LEU:HD12	1:I:185:LYS:CE	1.84	1.06
1:I:262:ASP:HB2	1:I:279:ALA:H	1.01	1.06
1:J:195:PRO:HA	1:J:198:GLN:HE21	0.91	1.06
1:K:178:GLU:HG2	1:K:179:THR:N	1.45	1.06
7:1:18:PHE:HD1	7:1:22:TRP:CE3	1.71	1.06
7:9:17:PRO:HB2	7:9:18:PHE:CD1	1.90	1.06
1:A:210:PHE:HA	1:A:280:ASP:OD2	1.53	1.06
1:C:922:VAL:HG23	1:C:944:PRO:HD2	1.07	1.06
1:F:740:PRO:O	1:J:339:THR:CG2	2.03	1.06
1:H:429:THR:HG22	1:H:430:ASN:N	1.69	1.06
1:J:188:TYR:CA	1:J:192:THR:OG1	2.02	1.06
1:J:445:ALA:CB	1:J:449:GLN:HB2	1.85	1.06
1:J:836:MET:CE	1:L:203:ASN:CA	2.33	1.06
7:6:3:ASP:O	7:6:4:ILE:HG12	1.55	1.06
1:B:193:PHE:CZ	1:B:198:GLN:HA	1.90	1.06
1:B:324:ILE:HG13	1:B:595:SER:HA	1.32	1.06
1:B:423:TYR:O	1:B:449:GLN:HB3	1.49	1.06
1:B:435:ALA:HB1	1:C:270:ALA:CB	1.85	1.06
1:B:907:VAL:HG23	1:B:908:ASP:N	1.58	1.06
1:E:174:LEU:HD11	1:E:186:ASP:OD1	1.55	1.06
1:F:103:ILE:CA	1:F:560:ILE:HD11	1.85	1.06
1:F:362:ASN:ND2	1:F:365:LEU:CB	2.19	1.06
1:F:657:PRO:CD	5:R:12:LEU:HD22	1.86	1.06
1:H:75:ALA:HB2	1:H:80:TYR:HD1	1.00	1.06
1:H:587:LYS:HG3	1:H:608:VAL:HG23	1.34	1.06
1:J:155:LYS:HZ1	1:J:285:THR:HB	1.13	1.06
1:L:156:THR:HG23	1:L:157:PHE:H	1.21	1.06
2:N:491:VAL:O	2:N:498:THR:HG22	1.53	1.06
1:A:828:PHE:HD2	1:B:412:PHE:CE1	1.72	1.06
1:B:202:GLU:HG2	1:C:299:TYR:HE2	1.16	1.06
1:B:310:ILE:O	1:B:313:VAL:CG2	2.04	1.06
1:E:22:GLU:OE2	7:3:19:MET:CE	2.03	1.06
1:E:65:THR:CG2	1:F:738:LEU:HD12	1.86	1.06
1:G:244:PRO:CD	1:G:253:ASP:O	2.04	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:313:VAL:CA	1:I:203:ASN:HD22	1.68	1.06
1:G:829:THR:HG22	1:G:830:GLY:H	1.11	1.06
1:H:913:PRO:HB3	5:P:8:PHE:HB2	1.34	1.06
1:J:279:ALA:CB	1:L:426:VAL:HG21	1.85	1.06
1:J:331:VAL:O	1:J:331:VAL:HG23	1.51	1.06
1:J:608:VAL:HG12	1:J:609:ARG:HG3	1.37	1.06
1:J:752:GLU:HG3	1:J:754:TYR:HE1	1.21	1.06
1:K:662:ASN:O	1:K:662:ASN:OD1	1.74	1.06
1:L:134:GLN:HB3	1:L:154:THR:CG2	1.85	1.06
4:M:194:LEU:O	4:M:194:LEU:HG	1.53	1.06
1:A:403:VAL:HG11	1:A:466:ALA:HA	1.38	1.05
1:B:433:ASP:CG	1:B:433:ASP:HB2	1.54	1.05
1:C:327:ARG:NH1	1:C:705:ILE:CG1	2.14	1.05
1:D:939:VAL:HG13	1:D:951:THR:HG23	1.11	1.05
1:E:445:ALA:O	1:E:449:GLN:OE1	1.73	1.05
1:F:691:LEU:HD22	1:F:691:LEU:N	1.69	1.05
1:H:198:GLN:HE22	1:I:838:GLN:HB2	0.92	1.05
1:H:846:PHE:HD2	1:H:847:PRO:HD3	1.11	1.05
1:L:313:VAL:HG12	1:L:313:VAL:O	1.29	1.05
1:B:440:TRP:CZ3	1:B:446:ILE:CD1	2.25	1.05
1:C:437:GLU:O	1:C:437:GLU:HG3	1.55	1.05
1:C:567:PHE:HE1	1:C:926:VAL:HG11	1.16	1.05
1:D:200:GLY:C	1:D:206:GLU:HG3	1.76	1.05
1:D:573:LEU:CB	1:D:641:GLN:HE22	1.67	1.05
1:F:649:ALA:CB	1:F:919:LEU:CD2	2.33	1.05
1:F:710:GLY:O	1:F:712:PHE:CE2	2.09	1.05
1:G:103:ILE:HG23	1:G:613:VAL:CG1	1.85	1.05
1:H:269:PRO:HB3	1:H:277:TYR:CD2	1.89	1.05
1:I:510:ALA:CB	1:I:832:LEU:O	2.04	1.05
1:J:929:HIS:O	1:J:931:PRO:HD3	1.56	1.05
1:K:155:LYS:HZ2	1:K:283:LEU:HB3	1.06	1.05
5:R:8:PHE:CD2	5:R:9:GLU:CB	2.40	1.05
1:A:107:LEU:HD12	1:A:607:SER:HB3	1.33	1.05
1:A:689:PRO:HD3	1:A:705:ILE:HG21	1.37	1.05
1:D:427:LYS:HE3	1:D:441:GLU:OE2	1.51	1.05
1:E:135:TRP:CH2	1:E:309:GLU:CB	2.38	1.05
1:F:217:LYS:HG3	1:F:218:LYS:N	1.56	1.05
1:F:718:PHE:O	1:F:745:ILE:HG21	1.50	1.05
1:G:178:GLU:HG2	1:G:178:GLU:O	1.40	1.05
1:J:405:ASP:OD1	1:J:405:ASP:O	1.72	1.05
1:J:406:GLU:HG2	1:L:474:TYR:HE2	1.17	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:865:LEU:HD13	1:J:865:LEU:O	1.54	1.05
4:M:194:LEU:HD23	6:U:197:TYR:OH	1.50	1.05
5:P:12:LEU:CD1	5:P:17:LEU:CD2	2.35	1.05
7:1:21:THR:HG22	7:1:21:THR:O	1.50	1.05
7:7:20:GLY:O	7:7:22:TRP:CE3	2.09	1.05
7:9:16:ARG:HD3	7:9:21:THR:HG22	1.09	1.05
1:A:477:VAL:O	1:A:529:MET:CE	2.05	1.05
1:B:134:GLN:CG	1:B:154:THR:O	2.04	1.05
1:B:836:MET:CE	1:B:836:MET:CA	2.34	1.05
1:C:24:LEU:HD12	7:2:9:LEU:HD13	1.36	1.05
1:C:357:ASP:OD1	1:C:566:PHE:CE1	2.10	1.05
1:D:169:ASN:HD21	1:F:432:ASN:HB3	0.97	1.05
1:F:514:VAL:O	1:F:514:VAL:HG13	1.50	1.05
1:G:52:PRO:CB	7:6:23:ASN:O	2.05	1.05
1:H:346:ALA:CB	1:H:353:ASN:HA	1.85	1.05
1:H:351:GLN:H	1:H:351:GLN:NE2	1.55	1.05
1:H:481:LEU:O	1:H:482:PRO:O	1.75	1.05
1:H:620:PHE:HD2	1:H:622:MET:HG3	1.18	1.05
1:J:191:LYS:HG2	1:J:191:LYS:O	1.55	1.05
1:J:198:GLN:OE1	1:K:840:GLN:HB3	1.57	1.05
2:N:145:VAL:HG12	2:N:146:GLU:H	1.16	1.05
2:N:202:LYS:HE2	2:N:204:ASP:OD2	1.57	1.05
5:Q:10:GLY:HA3	5:Q:13:PHE:HD2	0.92	1.05
1:A:877:SER:HB3	1:C:57:THR:HG21	1.37	1.05
1:B:242:PHE:CE1	1:B:287:ASN:CB	2.38	1.05
1:B:923:PHE:O	1:B:942:ARG:HA	1.57	1.05
1:C:70:PRO:HG2	1:C:73:ARG:NE	1.69	1.05
1:C:481:LEU:HD23	1:C:529:MET:HE2	1.39	1.05
1:C:481:LEU:CD2	1:C:529:MET:CE	2.34	1.05
1:C:731:TRP:NE1	1:C:875:PHE:HE1	1.46	1.05
1:E:65:THR:HG21	1:F:738:LEU:CD1	1.86	1.05
1:E:162:THR:HG21	1:E:193:PHE:CE2	1.92	1.05
1:F:576:PRO:HG3	1:F:631:GLU:OE1	1.53	1.05
1:G:313:VAL:HB	1:I:203:ASN:CG	1.76	1.05
1:G:707:TYR:HE1	1:G:917:TYR:CE1	1.75	1.05
1:K:172:LEU:CD2	1:K:193:PHE:HZ	1.69	1.05
1:K:866:CYS:SG	1:K:869:VAL:HG11	1.97	1.05
5:R:34:SER:HA	5:R:43:PRO:CG	1.85	1.05
6:U:208:TYR:HB2	6:U:209:PRO:HD2	1.10	1.05
1:A:426:VAL:HG23	1:B:260:TYR:HB2	1.38	1.04
1:B:94:LEU:HD13	1:B:619:PHE:CE2	1.92	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:514:VAL:HG23	1:B:518:ILE:HD13	1.39	1.04
1:D:200:GLY:HA3	1:D:206:GLU:CD	1.77	1.04
1:D:427:LYS:CD	1:D:441:GLU:OE2	2.03	1.04
1:F:602:ARG:HB3	5:R:35:THR:CG2	1.87	1.04
1:G:299:TYR:OH	1:I:202:GLU:HA	1.55	1.04
1:G:648:SER:HB2	1:G:922:VAL:O	1.57	1.04
1:J:878:ASN:O	1:J:879:PHE:HB2	1.56	1.04
1:J:913:PRO:HB3	5:R:8:PHE:HD1	1.16	1.04
1:K:101:PHE:CZ	1:K:581:TYR:CE2	2.45	1.04
1:K:448:ARG:HH11	1:K:448:ARG:HG2	1.18	1.04
1:L:109:ARG:NH1	1:L:113:PHE:CZ	2.25	1.04
1:L:371:LEU:HB3	1:L:377:ARG:HH21	1.16	1.04
5:P:35:THR:HG23	5:P:40:PRO:HA	1.36	1.04
5:S:12:LEU:O	5:S:15:PRO:HD2	1.57	1.04
7:6:24:GLU:O	7:6:24:GLU:CG	2.02	1.04
1:B:836:MET:HA	1:B:836:MET:HE2	1.09	1.04
1:B:943:THR:HG23	1:B:944:PRO:HD2	1.37	1.04
1:C:731:TRP:CZ2	1:C:875:PHE:CD1	2.46	1.04
1:D:148:GLN:HG2	1:D:149:GLN:H	1.20	1.04
1:D:705:ILE:HD11	1:D:708:LEU:HD11	1.39	1.04
1:E:52:PRO:CG	7:3:23:ASN:HB2	1.86	1.04
1:E:869:VAL:HG22	1:E:870:MET:H	1.23	1.04
1:F:827:GLY:HA2	1:F:839:GLY:C	1.75	1.04
1:H:104:ARG:HH12	1:I:752:GLU:HA	0.95	1.04
1:H:445:ALA:C	1:H:449:GLN:OE1	1.94	1.04
1:H:511:PRO:HD2	1:H:832:LEU:O	1.55	1.04
1:J:153:VAL:HG11	1:L:449:GLN:HG2	1.39	1.04
1:J:345:LEU:HD13	1:J:581:TYR:CE1	1.92	1.04
1:J:714:LEU:O	1:J:714:LEU:CD1	2.04	1.04
1:J:943:THR:HB	1:J:944:PRO:HD3	1.38	1.04
1:L:344:VAL:HG23	1:L:353:ASN:OD1	1.56	1.04
1:L:872:ARG:HB3	1:L:872:ARG:NH1	1.72	1.04
7:4:9:LEU:C	7:4:11:PRO:HD3	1.78	1.04
1:A:449:GLN:CG	1:B:139:GLU:OE2	2.05	1.04
1:A:756:VAL:HG22	1:A:763:LYS:HE2	1.39	1.04
1:B:42:GLY:CA	7:1:9:LEU:HD23	1.86	1.04
1:B:200:GLY:O	1:B:206:GLU:HG2	1.55	1.04
1:B:398:ILE:HD11	1:B:477:VAL:HG21	1.05	1.04
1:B:942:ARG:HH21	2:N:95:THR:HG21	1.21	1.04
1:D:38:TYR:OH	7:3:24:GLU:HB2	1.58	1.04
1:D:573:LEU:CB	1:D:641:GLN:NE2	2.19	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:738:LEU:HD23	1:D:738:LEU:H	1.16	1.04
1:E:135:TRP:HE1	1:E:156:THR:HG21	1.21	1.04
1:G:313:VAL:CG1	1:I:203:ASN:HB2	1.86	1.04
1:H:536:ASN:CB	1:H:596:SER:O	2.04	1.04
1:H:738:LEU:HB3	1:H:754:TYR:HE2	1.22	1.04
1:I:267:SER:HB2	1:I:276:GLU:HA	1.06	1.04
1:J:254:LEU:HD23	1:J:256:ILE:HD11	1.08	1.04
1:A:421:SER:HB2	1:A:423:TYR:HE1	1.10	1.04
1:B:620:PHE:HE1	1:C:880:MET:CE	1.69	1.04
1:D:929:HIS:HB3	1:D:937:GLU:HB3	1.38	1.04
1:E:428:ILE:HD13	1:F:169:ASN:ND2	1.71	1.04
1:F:103:ILE:CG1	1:F:613:VAL:HG13	1.87	1.04
1:F:267:SER:CB	1:F:277:TYR:HE2	1.45	1.04
1:F:635:ARG:HH22	1:F:933:ARG:HA	0.89	1.04
1:G:836:MET:HE2	1:G:837:ARG:HH12	1.21	1.04
1:H:754:TYR:O	1:H:762:THR:HA	1.58	1.04
1:K:863:LYS:HB3	1:K:863:LYS:NZ	1.71	1.04
1:L:670:ARG:NH1	1:L:945:PHE:CG	2.23	1.04
1:A:414:LEU:HD12	1:B:837:ARG:NH1	1.71	1.04
1:A:749:VAL:HG12	1:A:750:ASP:OD1	1.57	1.04
1:B:202:GLU:O	1:B:206:GLU:OE2	1.74	1.04
1:B:653:LEU:HG	1:B:915:LEU:CD1	1.88	1.04
1:C:455:GLY:O	1:C:456:ASN:ND2	1.91	1.04
1:D:124:LEU:HB2	1:E:825:ASN:HD21	1.23	1.04
1:E:46:ARG:NH2	1:F:923:PHE:HD1	1.54	1.04
1:E:156:THR:HG23	1:E:157:PHE:H	1.18	1.04
1:G:445:ALA:HB1	1:G:449:GLN:HG3	1.40	1.04
1:G:749:VAL:HG12	1:G:749:VAL:O	1.56	1.04
1:I:135:TRP:CZ2	1:I:309:GLU:HB3	1.91	1.04
1:I:892:MET:HA	1:I:895:ALA:HB3	1.10	1.04
1:J:56:VAL:CG1	1:K:882:MET:CE	2.35	1.04
1:A:128:GLY:O	1:C:204:TRP:CH2	2.11	1.03
1:C:356:VAL:CG2	1:C:940:TYR:CD1	2.40	1.03
1:C:659:LYS:HG2	1:C:910:MET:O	1.59	1.03
1:C:831:TYR:CB	1:C:838:GLN:NE2	2.20	1.03
1:D:38:TYR:HE1	1:E:56:VAL:HG12	1.20	1.03
1:E:948:GLY:O	6:U:105:GLY:CA	2.06	1.03
1:F:725:PHE:O	1:F:901:LEU:HA	1.56	1.03
1:H:161:ALA:O	1:H:193:PHE:CE2	2.11	1.03
1:J:831:TYR:CE1	1:L:197:PRO:HD3	1.93	1.03
6:U:209:PRO:HB3	6:U:212:PHE:HE1	0.89	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:477:VAL:O	1:A:529:MET:HE3	1.58	1.03
1:A:566:PHE:O	1:A:570:LYS:HB2	1.56	1.03
1:C:447:SER:O	1:C:448:ARG:CG	2.06	1.03
1:C:724:MET:CE	1:C:729:VAL:CG1	2.36	1.03
1:C:910:MET:HE1	1:C:914:THR:HG21	1.40	1.03
1:D:244:PRO:HD3	1:D:254:LEU:O	1.59	1.03
1:D:472:PHE:CE1	1:D:539:ARG:NH2	2.26	1.03
1:H:756:VAL:CG2	1:H:763:LYS:CG	2.35	1.03
1:K:243:LYS:HA	1:K:253:ASP:O	1.58	1.03
5:R:44:ALA:HB2	5:R:51:TYR:OH	1.58	1.03
5:S:8:PHE:CE2	5:S:9:GLU:HB3	1.92	1.03
1:A:197:PRO:CG	1:B:831:TYR:HE1	1.71	1.03
1:A:204:TRP:CZ3	1:B:313:VAL:HG13	1.92	1.03
1:B:59:ASP:O	1:C:734:ASN:ND2	1.92	1.03
1:B:93:VAL:HG13	1:B:575:LEU:HD23	1.35	1.03
1:B:155:LYS:HG3	1:B:261:PHE:CZ	1.91	1.03
1:B:194:GLN:O	1:B:197:PRO:HD2	1.58	1.03
1:C:75:ALA:HB2	1:C:80:TYR:CD1	1.92	1.03
1:C:134:GLN:HB2	1:C:154:THR:HG23	1.35	1.03
1:C:359:GLN:HA	1:C:359:GLN:HE21	1.18	1.03
1:C:831:TYR:HB2	1:C:838:GLN:HE21	1.21	1.03
1:J:514:VAL:O	1:J:514:VAL:HG22	1.22	1.03
1:J:663:VAL:HA	5:P:12:LEU:HD21	1.38	1.03
1:K:67:ARG:O	1:K:67:ARG:HG3	1.55	1.03
1:K:101:PHE:HZ	1:K:581:TYR:CE2	1.77	1.03
1:K:241:LYS:NZ	1:K:256:ILE:CD1	2.19	1.03
1:K:724:MET:HE1	1:K:730:SER:H	1.20	1.03
7:8:17:PRO:HG2	7:8:22:TRP:HE3	1.21	1.03
1:A:159:VAL:HB	1:B:840:GLN:OE1	1.56	1.03
1:A:277:TYR:HE1	1:A:279:ALA:CB	1.70	1.03
1:A:462:ILE:HB	1:B:411:CYS:CB	1.87	1.03
1:B:105:GLY:O	1:B:558:PHE:CD2	2.10	1.03
1:B:239:GLN:NE2	1:B:240:ALA:H	1.54	1.03
1:B:361:ARG:O	1:B:361:ARG:HG3	1.53	1.03
1:C:327:ARG:NH1	1:C:705:ILE:CD1	2.21	1.03
1:E:77:THR:CB	5:P:76:ARG:HH21	1.70	1.03
1:F:136:GLU:HG3	1:F:218:LYS:HE3	1.08	1.03
1:G:167:ILE:HG13	1:G:282:ILE:HG21	1.38	1.03
1:H:62:GLN:HE21	1:H:624:HIS:CE1	1.75	1.03
1:H:139:GLU:HB3	1:H:152:ASP:OD2	1.55	1.03
1:K:20:ALA:CB	7:8:9:LEU:HD13	1.85	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:90:ASP:O	1:K:91:ASN:HB2	1.51	1.03
1:L:572:LEU:HD12	1:L:641:GLN:OE1	1.58	1.03
1:L:820:PRO:HG2	1:L:821:PHE:CD1	1.93	1.03
4:M:141:LEU:HD22	4:M:170:VAL:HG21	1.36	1.03
5:S:36:VAL:O	5:S:36:VAL:HG12	1.54	1.03
1:A:449:GLN:HG3	1:B:139:GLU:OE2	1.58	1.03
1:A:644:ASN:HB3	1:A:925:VAL:HG12	1.38	1.03
1:B:682:ARG:NH2	1:B:910:MET:HG2	1.73	1.03
1:C:831:TYR:CB	1:C:838:GLN:HE21	1.71	1.03
1:D:38:TYR:CE1	1:E:56:VAL:HG12	1.87	1.03
1:D:816:ALA:O	1:F:235:GLU:HB2	1.56	1.03
1:F:46:ARG:HH11	1:F:46:ARG:HB3	1.17	1.03
1:H:429:THR:HG22	1:H:430:ASN:H	0.87	1.03
1:I:138:LYS:HD3	1:I:149:GLN:HB2	1.38	1.03
1:I:165:ILE:O	1:I:210:PHE:CE1	2.12	1.03
1:J:93:VAL:HG12	1:J:575:LEU:CD2	1.87	1.03
1:K:370:LEU:HD13	1:K:646:TYR:CG	1.92	1.03
1:K:371:LEU:HD23	1:K:377:ARG:NH2	1.73	1.03
1:K:937:GLU:OE1	6:U:37:GLY:CA	2.06	1.03
1:B:277:TYR:CE1	1:B:279:ALA:CB	2.40	1.02
1:B:635:ARG:NH1	1:B:933:ARG:N	2.06	1.02
1:B:651:ASN:HB3	1:B:919:LEU:HD23	1.39	1.02
1:C:837:ARG:O	1:C:837:ARG:CG	2.06	1.02
1:D:415:ASN:O	1:E:129:ALA:HB2	1.51	1.02
1:F:170:GLN:HB2	1:F:185:LYS:NZ	1.74	1.02
1:F:347:GLY:O	1:F:350:SER:O	1.77	1.02
1:F:564:GLN:NE2	1:F:566:PHE:H	1.56	1.02
1:G:275:GLU:OE1	1:G:275:GLU:HA	1.56	1.02
1:G:360:ASP:CG	1:G:942:ARG:HH22	1.62	1.02
1:G:392:ASP:OD1	1:G:393:PRO:HD2	1.60	1.02
1:H:817:VAL:O	1:H:817:VAL:CG2	2.07	1.02
1:I:69:VAL:HG22	1:I:70:PRO:HD2	1.07	1.02
1:I:260:TYR:CD2	1:I:282:ILE:CG2	2.42	1.02
1:J:445:ALA:HB2	1:J:449:GLN:HB2	1.36	1.02
1:J:572:LEU:HD21	1:J:643:PHE:HE2	1.18	1.02
1:K:358:LEU:HD12	1:K:942:ARG:NH1	1.74	1.02
1:L:718:PHE:O	1:L:745:ILE:HG23	1.56	1.02
5:P:41:VAL:O	5:P:43:PRO:HD3	1.39	1.02
5:R:44:ALA:HB3	5:R:51:TYR:OH	1.52	1.02
1:A:313:VAL:HG11	1:C:202:GLU:HB2	1.39	1.02
1:A:407:LEU:HD21	1:C:474:TYR:CE2	1.93	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:533:ASN:CA	1:A:713:TYR:CZ	2.42	1.02
1:A:730:SER:C	1:A:732:PRO:HD2	1.79	1.02
1:B:83:ARG:CB	1:B:582:GLU:HB2	1.88	1.02
1:B:298:VAL:HG21	1:B:317:MET:HG2	1.04	1.02
1:B:714:LEU:HD11	1:B:910:MET:CE	1.88	1.02
1:C:74:GLU:O	1:C:74:GLU:HG3	1.59	1.02
1:C:361:ARG:NH1	1:C:567:PHE:CE2	2.19	1.02
1:C:567:PHE:HE1	1:C:926:VAL:CG1	1.72	1.02
1:D:19:ASP:HB2	1:D:47:ASN:HB2	1.38	1.02
1:F:111:PRO:HD2	1:F:604:ASP:HB3	1.36	1.02
1:G:443:ASP:OD1	1:H:150:GLU:HG2	1.57	1.02
1:J:198:GLN:HB2	1:K:839:GLY:HA2	1.39	1.02
1:J:859:VAL:HG23	5:Q:58:SER:HB3	1.41	1.02
1:K:364:GLU:HA	1:K:364:GLU:OE2	1.54	1.02
1:K:513:LEU:HD13	1:K:819:LEU:CD1	1.89	1.02
1:L:108:ASP:HB2	1:L:555:TYR:H	1.24	1.02
5:R:8:PHE:CD2	5:R:9:GLU:HB2	1.94	1.02
7:4:9:LEU:O	7:4:11:PRO:CD	2.06	1.02
7:6:22:TRP:HH2	7:6:25:ILE:CD1	1.57	1.02
1:D:718:PHE:HB2	1:D:745:ILE:HG21	1.39	1.02
1:D:731:TRP:CG	1:D:732:PRO:HD3	1.93	1.02
1:F:398:ILE:HD11	1:F:473:LEU:CD1	1.90	1.02
1:G:729:VAL:HG13	1:G:733:GLY:CA	1.89	1.02
1:G:747:ARG:HD3	1:G:750:ASP:HB2	1.40	1.02
1:H:360:ASP:HB3	1:H:942:ARG:NH2	1.70	1.02
1:I:69:VAL:HG22	1:I:70:PRO:CD	1.89	1.02
1:I:188:TYR:HD1	1:I:256:ILE:HD12	1.23	1.02
1:I:240:ALA:O	1:I:288:VAL:HG12	1.58	1.02
1:I:517:TYR:HA	1:I:520:ILE:CD1	1.88	1.02
1:I:756:VAL:HG23	1:I:757:ALA:N	1.67	1.02
1:J:158:GLY:HA3	1:L:452:ILE:HG23	1.05	1.02
1:K:732:PRO:HG3	1:K:743:PHE:CE1	1.94	1.02
1:L:377:ARG:HB3	1:L:388:VAL:HG21	1.38	1.02
5:Q:126:ARG:CB	5:Q:129:GLN:HE21	1.70	1.02
1:A:188:TYR:CD1	1:A:256:ILE:CG1	2.41	1.02
1:A:823:HIS:HB3	1:C:196:GLU:OE2	0.84	1.02
1:B:134:GLN:HG3	1:B:154:THR:C	1.78	1.02
1:B:135:TRP:CB	1:B:307:SER:O	2.08	1.02
1:B:942:ARG:HH21	2:N:95:THR:CG2	1.71	1.02
1:B:943:THR:CG2	1:B:944:PRO:HD3	1.90	1.02
1:D:426:VAL:O	1:D:426:VAL:HG23	1.55	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:456:ASN:HB2	1:F:837:ARG:NE	1.74	1.02
1:D:482:PRO:HD3	1:D:529:MET:HB3	1.41	1.02
1:E:589:VAL:HB	1:E:607:SER:HB2	1.42	1.02
1:F:151:LYS:C	1:F:154:THR:HB	1.78	1.02
1:G:745:ILE:HD13	1:G:765:TRP:CZ2	1.95	1.02
1:H:159:VAL:HG12	1:I:840:GLN:HB2	1.35	1.02
1:K:432:ASN:OD1	1:K:432:ASN:O	1.76	1.02
6:V:19:LEU:CD2	6:V:72:ARG:HD2	1.88	1.02
6:V:201:PHE:CD2	6:V:208:TYR:HD2	1.76	1.02
1:B:42:GLY:HA2	7:1:9:LEU:HD23	1.02	1.02
1:C:196:GLU:HB2	1:C:197:PRO:HD3	1.41	1.02
1:D:46:ARG:HH11	1:D:46:ARG:HB3	1.18	1.02
1:E:453:CYS:HB3	1:F:159:VAL:HG13	1.38	1.02
1:F:647:LEU:O	1:F:647:LEU:CD2	2.08	1.02
1:G:194:GLN:HB3	1:G:197:PRO:CD	1.90	1.02
1:H:74:GLU:OE1	1:L:69:VAL:CG1	2.07	1.02
1:H:113:PHE:CD1	1:H:324:ILE:HD12	1.95	1.02
1:J:540:ASN:HD22	1:J:543:LEU:CB	1.73	1.02
1:J:664:PRO:HG3	5:Q:19:THR:CG2	1.90	1.02
1:J:910:MET:HE1	1:J:914:THR:HG21	1.42	1.02
1:K:194:GLN:O	1:K:196:GLU:N	1.93	1.02
1:K:194:GLN:HB2	1:K:196:GLU:OE2	1.60	1.02
1:L:134:GLN:CG	1:L:154:THR:CG2	2.37	1.02
1:L:404:GLU:O	1:L:404:GLU:HG3	1.53	1.02
6:U:209:PRO:CB	6:U:212:PHE:CD1	2.41	1.02
6:V:223:VAL:HG12	6:V:224:ASP:N	1.75	1.02
1:B:161:ALA:O	1:B:193:PHE:CD2	2.13	1.01
1:E:268:PRO:HA	1:E:275:GLU:HA	1.38	1.01
1:F:103:ILE:HG13	1:F:613:VAL:HG13	1.38	1.01
1:F:134:GLN:HB3	1:F:155:LYS:H	1.23	1.01
1:F:744:GLU:O	1:F:762:THR:OG1	1.78	1.01
1:G:162:THR:CB	1:G:193:PHE:CE1	2.43	1.01
1:G:204:TRP:CZ2	1:G:415:ASN:HB3	1.93	1.01
1:H:942:ARG:CB	1:H:946:SER:HA	1.90	1.01
1:I:313:VAL:O	1:I:313:VAL:CG1	2.08	1.01
1:I:517:TYR:CA	1:I:520:ILE:HD11	1.89	1.01
1:I:682:ARG:HE	1:I:907:VAL:HG21	1.24	1.01
1:K:3:THR:CG2	1:K:3:THR:O	2.07	1.01
1:K:394:ASP:O	1:K:397:ILE:O	1.77	1.01
1:K:429:THR:HG22	1:K:430:ASN:HD21	1.17	1.01
2:N:267:MET:HE2	2:N:267:MET:HA	1.41	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:S:8:PHE:CD2	5:S:9:GLU:N	2.27	1.01
1:A:689:PRO:HD3	1:A:705:ILE:CG2	1.90	1.01
1:B:247:GLU:O	1:B:249:GLU:N	1.92	1.01
1:C:56:VAL:HG23	7:1:24:GLU:HG2	1.02	1.01
1:D:22:GLU:CG	7:4:18:PHE:HE2	1.73	1.01
1:F:151:LYS:CG	1:F:154:THR:OG1	2.07	1.01
1:F:309:GLU:HA	1:F:312:LEU:HD13	1.42	1.01
1:G:49:THR:OG1	7:6:21:THR:HB	1.58	1.01
1:G:194:GLN:CB	1:G:197:PRO:HG2	1.90	1.01
1:G:685:THR:HG21	1:G:913:PRO:HB2	1.42	1.01
1:G:925:VAL:CG1	1:I:46:ARG:HH12	1.74	1.01
1:J:52:PRO:HD3	7:9:23:ASN:HD22	1.22	1.01
1:L:131:ASN:HB2	1:L:132:PRO:HD2	1.41	1.01
1:L:685:THR:HB	1:L:913:PRO:O	1.59	1.01
4:M:388:TRP:CH2	4:M:389:LEU:HD23	1.96	1.01
1:A:438:SER:HB3	1:B:278:LYS:HD2	1.42	1.01
1:B:138:LYS:HG2	1:B:149:GLN:HB3	1.41	1.01
1:B:582:GLU:O	1:B:582:GLU:HG2	1.60	1.01
1:C:255:ASP:O	1:C:286:GLU:HG3	1.60	1.01
1:D:310:ILE:H	1:D:310:ILE:HD12	1.23	1.01
1:D:705:ILE:HD11	1:D:708:LEU:HD12	1.42	1.01
1:D:752:GLU:O	1:D:754:TYR:HD1	1.39	1.01
1:E:97:ALA:HB1	1:F:779:GLN:O	1.58	1.01
1:F:576:PRO:CD	1:F:631:GLU:OE1	2.08	1.01
1:G:55:ASP:C	1:G:623:ALA:HB2	1.80	1.01
1:G:432:ASN:O	1:H:169:ASN:OD1	1.76	1.01
1:H:203:ASN:HB3	1:I:836:MET:SD	1.99	1.01
1:I:222:MET:SD	1:I:307:SER:HB2	1.99	1.01
1:L:594:GLN:O	1:L:594:GLN:HG2	1.53	1.01
6:V:205:PRO:HB3	6:V:208:TYR:CE1	1.96	1.01
1:A:838:GLN:HA	1:B:456:ASN:HD21	1.26	1.01
1:B:161:ALA:HB3	1:B:198:GLN:CD	1.81	1.01
1:B:687:GLU:HG2	1:B:701:TYR:CD2	1.96	1.01
1:C:60:ARG:HE	6:U:93:ARG:HD2	1.26	1.01
1:D:552:ASN:O	1:E:804:GLN:CG	2.08	1.01
1:E:22:GLU:OE2	7:3:19:MET:HE1	1.61	1.01
1:I:891:ASN:HD22	1:I:891:ASN:H	1.07	1.01
1:J:572:LEU:CD2	1:J:643:PHE:CE2	2.43	1.01
1:K:58:THR:O	1:L:736:ARG:NH2	1.92	1.01
1:K:450:ASN:HB2	1:L:156:THR:HA	1.39	1.01
1:K:722:SER:O	1:K:903:MET:HB3	1.58	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:826:SER:O	1:L:839:GLY:HA3	1.59	1.01
6:V:69:LEU:H	6:V:69:LEU:HD23	0.85	1.01
1:A:197:PRO:CD	1:B:831:TYR:CE1	2.41	1.01
1:A:611:ASP:OD1	1:A:611:ASP:O	1.79	1.01
1:B:460:MET:HB3	1:C:413:PRO:HA	1.41	1.01
1:B:836:MET:HE3	1:B:836:MET:N	1.76	1.01
1:C:78:TYR:HD2	1:C:695:PHE:CE1	1.46	1.01
1:C:83:ARG:HB3	1:C:582:GLU:HB2	1.43	1.01
1:C:250:GLN:CD	1:C:251:PRO:HD2	1.80	1.01
1:C:527:ASP:CG	1:C:863:LYS:NZ	2.14	1.01
1:C:724:MET:CB	1:C:729:VAL:HB	1.90	1.01
1:D:191:LYS:O	1:D:191:LYS:HG2	1.60	1.01
1:G:138:LYS:CE	1:G:149:GLN:OE1	2.08	1.01
1:G:147:VAL:CG1	1:G:147:VAL:O	2.08	1.01
1:G:496:ALA:HB3	5:R:87:SER:HA	1.41	1.01
1:H:747:ARG:HB2	1:H:762:THR:HG23	1.43	1.01
1:J:655:PRO:HB3	5:R:8:PHE:CZ	1.96	1.01
1:J:838:GLN:HA	1:K:456:ASN:HD22	1.19	1.01
5:Q:4:THR:HG23	5:Q:13:PHE:CE2	1.96	1.01
1:A:277:TYR:HE1	1:A:279:ALA:CA	1.74	1.00
1:A:926:VAL:HG12	1:A:940:TYR:CE2	1.76	1.00
1:B:377:ARG:HB3	1:B:388:VAL:HG21	1.28	1.00
1:D:198:GLN:NE2	1:E:838:GLN:HA	1.76	1.00
1:D:260:TYR:CE2	1:D:282:ILE:HG21	1.96	1.00
1:G:211:TYR:CD1	1:I:454:LYS:HD3	1.95	1.00
1:G:752:GLU:HG2	1:G:752:GLU:O	1.59	1.00
1:H:6:MET:O	1:H:6:MET:CG	2.08	1.00
1:H:192:THR:HG21	1:H:214:ARG:HH11	1.24	1.00
1:I:398:ILE:O	1:I:398:ILE:CG1	2.06	1.00
1:K:204:TRP:NE1	1:K:415:ASN:HB3	1.76	1.00
1:K:405:ASP:O	1:K:405:ASP:CG	1.95	1.00
1:K:495:PRO:HG3	1:K:502:GLU:HB2	1.42	1.00
1:K:799:GLN:HB2	1:K:865:LEU:O	1.59	1.00
1:L:20:ALA:HA	1:L:23:TYR:HE2	1.24	1.00
1:A:417:THR:CG2	1:A:453:CYS:CB	2.39	1.00
1:B:135:TRP:HB3	1:B:307:SER:O	1.61	1.00
1:B:822:GLN:NE2	1:B:846:PHE:CE1	2.29	1.00
1:C:266:GLY:CA	1:C:277:TYR:HD2	1.73	1.00
1:D:79:LEU:HD11	1:D:584:ASN:HB3	1.02	1.00
1:D:804:GLN:NE2	1:F:551:GLY:HA3	1.76	1.00
1:F:403:VAL:CG2	1:F:465:GLN:CB	2.38	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:649:ALA:HB1	1:G:919:LEU:HD12	1.44	1.00
1:H:269:PRO:CB	1:H:277:TYR:CE2	2.43	1.00
1:H:575:LEU:HD12	1:H:631:GLU:HG2	1.42	1.00
1:I:262:ASP:CB	1:I:279:ALA:H	1.74	1.00
1:J:134:GLN:HA	1:J:154:THR:O	0.83	1.00
1:J:278:LYS:HD2	1:L:438:SER:CB	1.90	1.00
1:J:677:GLY:N	1:J:921:GLU:HG3	1.76	1.00
1:K:580:THR:CG2	1:K:580:THR:O	2.09	1.00
1:L:151:LYS:HG2	1:L:154:THR:OG1	1.58	1.00
5:P:12:LEU:CD1	5:P:17:LEU:HD23	1.91	1.00
1:A:152:ASP:HA	1:A:154:THR:HG22	1.38	1.00
1:A:756:VAL:HG22	1:A:763:LYS:CE	1.90	1.00
1:B:90:ASP:OD2	1:B:933:ARG:NH2	1.93	1.00
1:B:162:THR:HB	1:B:212:GLY:H	1.23	1.00
1:B:315:GLN:HE22	1:B:836:MET:HE3	1.26	1.00
1:B:381:PHE:CE1	1:C:795:PHE:HE1	1.80	1.00
1:B:433:ASP:CG	1:B:433:ASP:CB	0.91	1.00
1:D:188:TYR:HB2	1:D:256:ILE:HG21	1.39	1.00
1:D:204:TRP:HE1	1:D:415:ASN:HB2	1.23	1.00
1:D:456:ASN:ND2	1:F:838:GLN:HA	1.77	1.00
1:E:948:GLY:O	6:U:105:GLY:HA2	1.57	1.00
1:F:635:ARG:HH22	1:F:933:ARG:CA	1.74	1.00
1:G:194:GLN:HB3	1:G:197:PRO:CG	1.90	1.00
1:H:155:LYS:NZ	1:H:285:THR:HB	1.76	1.00
1:H:269:PRO:CG	1:H:277:TYR:CD2	2.44	1.00
1:J:574:LEU:HA	1:J:930:GLN:HE22	1.20	1.00
1:J:744:GLU:O	1:J:765:TRP:CB	2.08	1.00
1:K:370:LEU:CD1	1:K:646:TYR:CD1	2.44	1.00
1:B:738:LEU:HD23	1:B:754:TYR:CD2	1.96	1.00
1:C:243:LYS:H	1:C:243:LYS:CD	1.68	1.00
1:E:52:PRO:HD3	7:3:23:ASN:HD22	0.99	1.00
1:F:103:ILE:N	1:F:560:ILE:CD1	2.24	1.00
1:F:155:LYS:HG3	1:F:261:PHE:HZ	1.20	1.00
1:K:138:LYS:HG2	1:K:147:VAL:CG1	1.92	1.00
2:N:138:ARG:HH21	2:N:154:LEU:HD21	1.26	1.00
1:C:808:GLU:HG2	1:C:814:TYR:CE2	1.96	1.00
1:E:218:LYS:O	1:E:218:LYS:HG3	1.59	1.00
1:F:837:ARG:O	1:F:837:ARG:HG3	1.62	1.00
1:G:277:TYR:O	1:I:440:TRP:HZ3	1.38	1.00
1:H:756:VAL:HG22	1:H:763:LYS:HG2	1.41	1.00
1:I:262:ASP:HB2	1:I:279:ALA:N	1.77	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:592:ILE:HG13	1:I:593:LEU:H	1.26	1.00
1:I:682:ARG:HH21	1:I:907:VAL:CG2	1.74	1.00
1:J:918:LEU:O	1:J:918:LEU:HD23	1.59	1.00
1:K:81:LYS:CB	1:K:584:ASN:HB3	1.90	1.00
1:A:445:ALA:CA	1:B:152:ASP:HB3	1.90	1.00
1:E:155:LYS:NZ	1:E:261:PHE:HE1	1.40	1.00
1:E:922:VAL:HB	1:E:944:PRO:HD2	1.39	1.00
1:F:46:ARG:HB3	1:F:46:ARG:NH1	1.76	1.00
1:F:748:SER:O	5:P:55:GLY:N	1.93	1.00
1:G:546:ARG:HH11	1:G:546:ARG:HG3	1.26	1.00
1:H:108:ASP:HB3	1:H:607:SER:HB2	1.43	1.00
1:I:518:ILE:HD13	1:I:526:LEU:HD21	1.43	1.00
1:J:446:ILE:HG23	1:J:447:SER:H	0.83	1.00
1:K:194:GLN:O	1:K:197:PRO:CD	2.10	1.00
4:M:177:GLU:O	4:M:178:VAL:CG2	2.09	1.00
5:R:50:THR:O	5:R:50:THR:HG23	1.60	1.00
7:4:18:PHE:O	7:4:18:PHE:CD2	2.15	1.00
1:B:682:ARG:NH2	1:B:910:MET:CG	2.25	1.00
1:G:49:THR:HG23	7:6:21:THR:O	1.59	1.00
1:H:135:TRP:CZ3	1:H:309:GLU:HB2	1.95	1.00
1:H:746:LYS:HG2	1:H:760:ASN:HD22	1.25	1.00
1:A:423:TYR:HE2	1:B:263:VAL:HG22	1.25	0.99
1:B:141:GLN:HE21	1:B:148:GLN:HB3	1.22	0.99
1:C:194:GLN:O	1:C:197:PRO:HD2	1.61	0.99
1:C:527:ASP:CG	1:C:863:LYS:HZ3	1.64	0.99
1:D:255:ASP:O	1:D:286:GLU:HB3	1.62	0.99
1:E:14:HIS:CD2	1:E:23:TYR:CE2	2.50	0.99
1:E:790:ARG:HH11	1:E:790:ARG:HB3	1.27	0.99
1:F:652:MET:CE	5:R:20:ARG:HH11	1.73	0.99
1:G:13:MET:SD	1:H:941:LEU:HG	2.02	0.99
1:G:906:GLU:O	1:G:906:GLU:CD	2.00	0.99
1:J:400:ASN:HD21	1:J:520:ILE:HA	1.16	0.99
1:B:134:GLN:CA	1:B:154:THR:O	2.10	0.99
1:G:13:MET:SD	1:H:941:LEU:CG	2.50	0.99
1:G:333:LEU:CD1	1:G:592:ILE:HG21	1.92	0.99
1:H:313:VAL:O	1:H:313:VAL:CG1	2.09	0.99
1:K:837:ARG:NH1	1:L:459:ALA:H	1.58	0.99
5:P:16:TYR:N	5:Q:18:THR:OG1	1.95	0.99
5:Q:35:THR:C	5:Q:43:PRO:HG2	1.83	0.99
1:E:441:GLU:HA	1:E:446:ILE:CG2	1.92	0.99
1:H:6:MET:O	1:H:6:MET:HG3	1.61	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:438:SER:HB2	1:L:278:LYS:HB3	1.44	0.99
1:K:453:CYS:O	1:L:159:VAL:HA	1.61	0.99
6:V:19:LEU:HD23	6:V:72:ARG:CD	1.93	0.99
6:V:205:PRO:HB3	6:V:208:TYR:HE1	1.26	0.99
1:B:687:GLU:O	1:B:699:PHE:HE1	1.44	0.99
1:C:96:MET:HE2	1:C:574:LEU:HD12	1.43	0.99
1:E:575:LEU:HB3	1:E:576:PRO:HD2	1.41	0.99
1:F:132:PRO:HA	1:F:157:PHE:O	1.61	0.99
1:G:49:THR:HA	7:6:20:GLY:O	1.61	0.99
1:H:261:PHE:O	1:H:280:ASP:HA	1.60	0.99
1:H:700:VAL:HG11	5:Q:34:SER:HB2	1.42	0.99
1:K:910:MET:HE2	1:K:914:THR:HB	1.36	0.99
1:L:199:VAL:HG12	1:L:206:GLU:HG2	1.03	0.99
1:L:812:LYS:H	1:L:812:LYS:HD2	1.27	0.99
7:4:9:LEU:C	7:4:11:PRO:CD	2.31	0.99
1:A:188:TYR:CE1	1:A:256:ILE:CB	2.46	0.99
1:B:242:PHE:CE2	1:B:288:VAL:CA	2.46	0.99
1:D:892:MET:HE1	1:F:3:THR:OG1	1.60	0.99
1:G:239:GLN:HE21	1:G:240:ALA:H	1.06	0.99
1:G:878:ASN:HD22	1:G:878:ASN:H	1.03	0.99
1:H:315:GLN:HE22	1:H:836:MET:HB3	1.26	0.99
1:H:429:THR:CG2	1:H:430:ASN:H	1.74	0.99
1:J:254:LEU:CD2	1:J:256:ILE:HD11	1.91	0.99
1:J:279:ALA:HB2	1:L:426:VAL:HG21	1.02	0.99
1:L:214:ARG:NH2	1:L:286:GLU:OE2	1.95	0.99
2:N:145:VAL:HG12	2:N:146:GLU:N	1.67	0.99
5:P:33:GLY:CA	5:P:44:ALA:HB3	1.93	0.99
1:B:670:ARG:NH2	1:B:945:PHE:HD2	1.27	0.99
1:D:644:ASN:HB3	1:D:925:VAL:HG12	1.45	0.99
1:G:356:VAL:CG1	1:G:940:TYR:CD1	2.45	0.99
1:H:444:ASP:CB	1:H:449:GLN:HE22	1.75	0.99
1:J:56:VAL:CG1	1:K:882:MET:HE1	1.92	0.99
1:J:153:VAL:CG1	1:L:449:GLN:HG2	1.93	0.99
1:L:165:ILE:O	1:L:210:PHE:CE1	2.16	0.99
2:N:83:VAL:CG1	2:N:93:ALA:O	2.11	0.99
2:N:441:THR:CG2	2:N:443:VAL:HG13	1.92	0.99
4:M:156:GLN:HG3	4:M:211:GLY:HA3	1.44	0.99
5:Q:3:GLY:HA2	5:R:1:MET:CE	1.91	0.99
1:E:204:TRP:HE3	1:F:313:VAL:HG13	1.27	0.99
1:E:676:ARG:HB3	1:E:921:GLU:HB2	1.45	0.99
1:F:130:PRO:HG2	1:F:157:PHE:CE2	1.97	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:151:LYS:HE2	1:F:218:LYS:HB2	1.43	0.99
1:F:664:PRO:HG3	5:P:19:THR:HG23	1.41	0.99
1:G:141:GLN:HB3	1:I:446:ILE:CD1	1.93	0.99
1:G:266:GLY:HA3	1:G:277:TYR:HD2	1.27	0.99
1:G:445:ALA:CB	1:G:449:GLN:HG3	1.90	0.99
1:H:106:VAL:CG1	5:S:59:LEU:HD21	1.91	0.99
1:H:352:LEU:O	6:V:110:GLY:CA	2.11	0.99
1:J:38:TYR:CZ	1:K:56:VAL:HG11	1.96	0.99
1:J:278:LYS:NZ	1:L:428:ILE:HG22	1.77	0.99
1:L:473:LEU:O	1:L:477:VAL:CG1	2.09	0.99
2:N:406:SER:O	2:N:496:ARG:HG3	1.63	0.99
7:6:3:ASP:O	7:6:4:ILE:CG1	2.11	0.99
1:B:358:LEU:HD22	1:B:942:ARG:CZ	1.93	0.99
1:C:115:PRO:O	1:C:323:TYR:HE1	1.42	0.99
1:I:886:THR:HG23	1:I:889:GLY:HA3	1.45	0.99
1:A:130:PRO:HD3	1:C:204:TRP:CH2	1.98	0.99
1:A:421:SER:CB	1:A:423:TYR:HE1	1.75	0.99
1:A:539:ARG:HH11	1:A:539:ARG:HB3	1.28	0.99
1:B:714:LEU:CD1	1:B:910:MET:HE1	1.92	0.99
1:E:474:TYR:HA	1:E:478:ALA:CB	1.93	0.99
1:G:741:ASN:O	1:G:742:GLU:HB2	1.34	0.99
1:K:676:ARG:O	1:K:875:PHE:HB2	1.57	0.99
1:L:165:ILE:O	1:L:210:PHE:HE1	1.44	0.99
1:E:854:THR:O	1:E:854:THR:HG23	1.62	0.99
1:F:191:LYS:O	1:F:191:LYS:CG	2.09	0.99
1:F:856:VAL:CG2	1:F:857:PRO:HD2	1.93	0.99
1:G:313:VAL:HB	1:I:203:ASN:CB	1.93	0.99
1:K:149:GLN:O	1:K:150:GLU:HG2	1.59	0.99
5:P:17:LEU:HA	5:R:14:SER:O	1.61	0.99
1:B:687:GLU:O	1:B:699:PHE:CE1	2.16	0.98
1:G:707:TYR:CE1	1:G:917:TYR:CE1	2.51	0.98
1:J:103:ILE:HD13	1:J:610:PHE:HD2	1.25	0.98
1:B:79:LEU:CD2	1:B:335:TYR:CZ	2.46	0.98
1:B:811:TYR:HD1	1:B:857:PRO:HD2	1.26	0.98
1:C:842:TYR:CG	1:C:843:PRO:HD2	1.97	0.98
1:G:151:LYS:O	1:G:154:THR:CB	2.11	0.98
1:H:94:LEU:CD1	1:H:619:PHE:CE1	2.21	0.98
1:H:155:LYS:HZ2	1:H:215:ALA:CB	1.76	0.98
1:H:266:GLY:HA3	1:H:276:GLU:HB3	1.44	0.98
1:H:278:LYS:O	1:H:278:LYS:HG2	1.62	0.98
1:J:222:MET:HE1	1:J:312:LEU:HD13	1.44	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:739:THR:OG1	1:K:740:PRO:HD2	1.62	0.98
1:A:510:ALA:CB	1:A:832:LEU:HD12	1.91	0.98
1:B:61:SER:CB	1:C:734:ASN:HB2	1.94	0.98
1:B:188:TYR:CA	1:B:192:THR:CG2	2.41	0.98
1:B:620:PHE:HA	1:C:778:TYR:CE2	1.99	0.98
1:B:822:GLN:CD	1:B:846:PHE:CD1	2.36	0.98
1:C:203:ASN:HB2	1:C:204:TRP:CE3	1.97	0.98
1:C:724:MET:N	1:C:729:VAL:HG23	1.78	0.98
1:G:438:SER:OG	1:H:277:TYR:HB2	1.63	0.98
1:G:524:TRP:CH2	1:G:863:LYS:HG2	1.98	0.98
1:I:721:VAL:O	1:I:742:GLU:HB2	1.62	0.98
1:K:59:ASP:OD1	1:K:59:ASP:C	1.98	0.98
1:K:75:ALA:HB2	1:K:80:TYR:CD1	1.98	0.98
1:K:196:GLU:HG2	1:K:197:PRO:CD	1.91	0.98
1:B:921:GLU:O	1:B:922:VAL:CG1	2.10	0.98
1:D:198:GLN:CD	1:E:838:GLN:HA	1.84	0.98
1:H:923:PHE:HB3	1:H:943:THR:HG21	1.39	0.98
1:J:51:ALA:HB2	1:K:883:GLY:HA3	1.46	0.98
1:J:417:THR:HG21	1:J:453:CYS:HB2	1.45	0.98
1:K:155:LYS:HD2	1:K:283:LEU:HD13	1.46	0.98
1:L:154:THR:HG22	1:L:155:LYS:HG2	1.46	0.98
7:5:17:PRO:HG2	7:5:22:TRP:HE3	0.82	0.98
1:B:79:LEU:HD21	1:B:335:TYR:HH	1.21	0.98
1:B:214:ARG:HH22	1:B:241:LYS:HE3	1.26	0.98
1:C:241:LYS:CD	1:C:256:ILE:HD11	1.94	0.98
1:C:352:LEU:HD13	1:J:63:ARG:HG3	1.46	0.98
1:C:831:TYR:HB3	1:C:838:GLN:NE2	1.77	0.98
1:E:194:GLN:C	1:E:197:PRO:HD2	1.82	0.98
1:F:1:MET:HB3	1:F:3:THR:HG23	0.99	0.98
1:H:74:GLU:OE2	1:H:81:LYS:CD	2.11	0.98
1:I:107:LEU:HG	1:I:108:ASP:H	1.27	0.98
1:J:89:GLY:O	1:J:92:ARG:HG2	1.63	0.98
1:J:254:LEU:HD23	1:J:256:ILE:CD1	1.92	0.98
1:K:440:TRP:CD2	1:K:440:TRP:N	2.30	0.98
1:L:168:THR:HG23	1:L:171:GLY:H	1.27	0.98
5:R:39:ARG:HG2	5:R:41:VAL:HG23	1.41	0.98
1:B:161:ALA:O	1:B:193:PHE:CE2	2.16	0.98
1:B:296:HIS:O	1:B:316:SER:HB2	1.62	0.98
1:F:102:ASP:OD1	1:F:616:TYR:HE1	1.46	0.98
1:F:560:ILE:HD12	1:F:560:ILE:O	1.63	0.98
1:G:159:VAL:HG12	1:H:840:GLN:HB2	1.02	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:520:ILE:H	1:J:520:ILE:CD1	1.64	0.98
1:L:261:PHE:O	1:L:280:ASP:HA	1.63	0.98
1:A:444:ASP:HA	1:B:152:ASP:HA	1.44	0.98
1:B:577:GLY:O	1:B:579:TYR:CZ	2.16	0.98
1:C:277:TYR:HE1	1:C:279:ALA:HB2	1.10	0.98
1:C:356:VAL:HG22	1:C:940:TYR:HE1	1.24	0.98
1:D:198:GLN:HG2	1:E:838:GLN:HB2	1.02	0.98
1:F:135:TRP:CH2	1:F:153:VAL:HG11	1.99	0.98
1:J:664:PRO:CB	5:Q:19:THR:HG22	1.94	0.98
1:L:161:ALA:HB3	1:L:198:GLN:CD	1.83	0.98
5:Q:14:SER:OG	5:R:12:LEU:HD11	1.62	0.98
5:R:82:MET:HG3	5:R:88:SER:HB3	0.99	0.98
1:C:684:LYS:CE	1:C:912:GLU:CG	2.35	0.98
1:D:417:THR:HG22	1:D:419:THR:H	1.29	0.98
1:E:155:LYS:CE	1:E:261:PHE:CE1	2.46	0.98
1:F:660:ALA:HB1	5:R:11:GLY:HA3	1.46	0.98
1:G:217:LYS:HE2	1:G:257:ASP:OD2	1.63	0.98
1:G:787:TYR:C	1:G:787:TYR:CD1	2.37	0.98
1:B:116:TYR:HD2	1:C:520:ILE:HG22	1.01	0.98
1:B:405:ASP:HB3	1:B:465:GLN:HG3	1.44	0.98
1:B:670:ARG:CZ	1:B:945:PHE:HD2	1.77	0.98
1:D:159:VAL:HG13	1:F:453:CYS:HB3	1.42	0.98
1:G:162:THR:HB	1:G:193:PHE:CD1	1.96	0.98
1:H:323:TYR:O	1:H:595:SER:HB2	1.61	0.98
1:H:869:VAL:HG22	1:H:870:MET:H	1.29	0.98
1:I:891:ASN:O	1:I:895:ALA:CB	2.11	0.98
1:J:93:VAL:CG1	1:J:575:LEU:CD2	2.42	0.98
1:J:192:THR:HG22	1:J:192:THR:O	1.58	0.98
1:J:535:PHE:CE1	1:J:711:THR:OG1	2.16	0.98
1:J:816:ALA:O	1:L:235:GLU:HB2	1.64	0.98
1:K:949:ASN:H	1:K:949:ASN:HD22	1.00	0.98
1:K:949:ASN:HD22	1:K:949:ASN:N	1.58	0.98
1:B:61:SER:HB3	1:C:734:ASN:HB2	1.44	0.98
1:G:847:PRO:O	1:I:121:TYR:HE2	1.47	0.98
5:Q:126:ARG:HB2	5:Q:129:GLN:HE22	1.29	0.98
1:A:203:ASN:HA	1:A:206:GLU:OE2	1.64	0.97
1:B:69:VAL:HG23	1:B:70:PRO:HD2	1.44	0.97
1:B:105:GLY:O	1:B:558:PHE:CE2	2.16	0.97
1:C:724:MET:HE2	1:C:729:VAL:HB	1.44	0.97
1:E:747:ARG:NH2	1:E:754:TYR:CD1	2.31	0.97
1:F:683:LEU:HD23	1:F:683:LEU:H	1.26	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:770:MET:HE2	1:J:774:TYR:CE1	1.97	0.97
1:J:774:TYR:CD1	1:J:776:ILE:HD11	1.99	0.97
2:N:148:ASP:O	2:N:149:LEU:HD12	1.64	0.97
5:P:39:ARG:O	5:P:39:ARG:HD3	1.62	0.97
7:6:22:TRP:CZ2	7:6:25:ILE:CD1	2.47	0.97
1:A:262:ASP:O	1:C:423:TYR:CG	2.16	0.97
1:A:348:GLN:O	1:A:348:GLN:CG	2.10	0.97
1:A:423:TYR:HE2	1:B:263:VAL:CG2	1.76	0.97
1:A:572:LEU:HD13	1:A:928:VAL:HG21	1.45	0.97
1:C:321:PRO:HG2	1:C:538:PRO:HB3	1.46	0.97
1:F:675:PHE:O	1:F:886:THR:CG2	2.12	0.97
1:G:103:ILE:HG23	1:G:613:VAL:HG13	1.45	0.97
1:H:198:GLN:HE22	1:I:838:GLN:CB	1.78	0.97
1:J:134:GLN:HG3	1:J:154:THR:CG2	1.93	0.97
1:J:406:GLU:HG2	1:L:474:TYR:CE2	1.99	0.97
1:K:709:ASP:OD1	1:K:711:THR:HG22	1.64	0.97
6:U:159:ARG:HH11	6:U:159:ARG:HB3	1.30	0.97
1:C:83:ARG:HH12	1:J:69:VAL:HG11	1.29	0.97
1:D:426:VAL:O	1:D:426:VAL:CG2	2.11	0.97
1:E:241:LYS:HD2	1:E:254:LEU:HD11	1.46	0.97
1:F:760:ASN:OD1	5:P:54:VAL:HG21	1.64	0.97
1:J:335:TYR:OH	1:J:694:GLY:O	1.81	0.97
5:Q:10:GLY:CA	5:Q:13:PHE:HD2	1.78	0.97
1:A:107:LEU:HD12	1:A:607:SER:HB2	0.99	0.97
1:A:154:THR:HG23	1:A:155:LYS:HG2	1.45	0.97
1:C:724:MET:HA	1:C:729:VAL:HG23	0.98	0.97
1:F:409:ASN:O	1:F:461:GLU:HB2	1.64	0.97
1:G:52:PRO:HB3	7:6:23:ASN:O	1.65	0.97
1:G:155:LYS:HG3	1:G:261:PHE:CZ	1.99	0.97
1:H:417:THR:O	1:H:417:THR:OG1	1.75	0.97
1:B:324:ILE:CG1	1:B:595:SER:HA	1.94	0.97
1:B:670:ARG:CZ	1:B:945:PHE:CD2	2.46	0.97
1:C:724:MET:CG	1:C:729:VAL:HB	1.95	0.97
1:D:456:ASN:HD21	1:F:838:GLN:HA	1.28	0.97
1:D:921:GLU:O	1:D:922:VAL:HG13	1.63	0.97
1:E:923:PHE:O	1:E:942:ARG:HA	1.64	0.97
1:H:174:LEU:O	1:H:174:LEU:HD12	1.62	0.97
1:H:720:LYS:O	1:H:721:VAL:HG23	1.61	0.97
1:I:803:ARG:HH11	1:I:803:ARG:HG2	1.27	0.97
1:K:358:LEU:HD12	1:K:942:ARG:NE	1.79	0.97
2:N:202:LYS:CE	2:N:204:ASP:OD2	2.11	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:4:17:PRO:HG2	7:4:22:TRP:CE2	1.97	0.97
1:C:744:GLU:O	1:C:765:TRP:HB2	1.63	0.97
1:E:116:TYR:HD1	1:E:116:TYR:H	1.11	0.97
1:E:682:ARG:NH2	1:E:910:MET:HE3	1.78	0.97
1:F:731:TRP:CD2	1:F:731:TRP:O	2.18	0.97
1:G:869:VAL:HG22	1:G:870:MET:H	1.29	0.97
1:H:100:TYR:CD1	1:H:100:TYR:O	2.17	0.97
1:J:61:SER:CB	1:K:735:ASP:OD2	2.11	0.97
1:J:400:ASN:O	1:J:400:ASN:OD1	1.81	0.97
1:J:520:ILE:HD12	1:J:520:ILE:N	1.79	0.97
1:J:676:ARG:HH11	1:J:676:ARG:HG2	1.26	0.97
1:L:134:GLN:HG2	1:L:155:LYS:H	1.18	0.97
1:L:573:LEU:O	1:L:641:GLN:NE2	1.98	0.97
7:7:17:PRO:O	7:7:18:PHE:HB2	1.63	0.97
1:B:942:ARG:HG3	1:B:945:PHE:O	1.65	0.97
1:F:1:MET:CB	1:F:3:THR:HG23	1.94	0.97
1:G:190:ASP:CG	1:G:191:LYS:H	1.66	0.97
1:J:540:ASN:HD22	1:J:543:LEU:HB2	1.28	0.97
1:K:246:ASN:CG	1:K:247:GLU:H	1.65	0.97
1:K:371:LEU:CD2	1:K:377:ARG:HH21	1.76	0.97
1:K:486:LYS:HB3	1:K:509:VAL:HG13	1.45	0.97
2:N:144:VAL:HG12	2:N:145:VAL:H	1.29	0.97
1:B:679:SER:HG	1:B:919:LEU:HB2	1.16	0.97
1:B:734:ASN:HB2	1:B:736:ARG:HE	1.26	0.97
1:F:136:GLU:CD	1:F:218:LYS:HE3	1.84	0.97
1:G:161:ALA:HB2	1:G:198:GLN:NE2	1.78	0.97
1:H:786:GLY:O	1:H:789:ASP:O	1.83	0.97
1:H:818:THR:HG22	1:H:820:PRO:HD3	1.46	0.97
1:I:738:LEU:O	1:I:740:PRO:HD3	1.65	0.97
1:K:923:PHE:O	1:K:942:ARG:HA	1.64	0.97
1:L:74:GLU:HG3	1:L:81:LYS:HB3	1.47	0.97
1:L:650:ALA:HB2	1:L:942:ARG:HE	1.30	0.97
7:1:24:GLU:OE1	7:1:24:GLU:CA	2.10	0.97
1:A:277:TYR:CE1	1:A:279:ALA:CA	2.48	0.97
1:B:203:ASN:H	1:C:836:MET:HE1	1.15	0.97
1:B:409:ASN:O	1:B:461:GLU:HB2	1.63	0.97
1:D:131:ASN:HB3	1:D:225:CYS:HB2	1.47	0.97
1:D:235:GLU:HG3	1:E:815:LYS:HB3	1.43	0.97
1:F:136:GLU:OE2	1:F:218:LYS:HD2	1.65	0.97
1:I:685:THR:HB	1:I:913:PRO:O	1.64	0.97
1:J:574:LEU:HA	1:J:930:GLN:NE2	1.78	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:480:TYR:OH	1:L:538:PRO:HD3	1.63	0.97
1:A:380:TYR:CD2	1:A:387:ALA:HB1	2.00	0.97
1:A:533:ASN:CA	1:A:713:TYR:CE2	2.48	0.97
1:B:752:GLU:O	1:B:754:TYR:CE1	2.18	0.97
1:B:775:ASN:OD1	1:B:880:MET:HG3	1.64	0.97
1:C:842:TYR:CD2	1:C:843:PRO:HD2	2.00	0.97
1:E:452:ILE:HG22	1:F:159:VAL:H	1.28	0.97
1:H:277:TYR:CD1	1:H:278:LYS:HB2	2.00	0.97
1:I:421:SER:O	1:I:451:GLN:HA	1.62	0.97
1:J:158:GLY:HA3	1:L:452:ILE:CG2	1.93	0.97
1:J:358:LEU:HD21	1:J:947:ALA:HB2	0.99	0.97
1:L:413:PRO:HG2	1:L:417:THR:HA	1.44	0.97
5:P:9:GLU:OE2	5:P:13:PHE:HB2	1.64	0.97
5:P:33:GLY:HA3	5:P:44:ALA:HB3	1.43	0.97
5:Q:16:TYR:CE2	5:R:18:THR:CG2	2.48	0.97
6:U:169:LEU:HD11	7:1:29:GLN:C	1.85	0.97
1:A:185:LYS:O	1:A:186:ASP:OD1	1.82	0.96
1:B:337:ASN:N	1:B:337:ASN:HD22	1.59	0.96
1:G:649:ALA:CB	1:G:919:LEU:HD12	1.94	0.96
1:L:35:THR:CG2	7:9:24:GLU:OE1	2.13	0.96
5:P:41:VAL:C	5:P:43:PRO:CD	2.21	0.96
5:Q:16:TYR:CG	5:R:18:THR:OG1	2.17	0.96
1:A:167:ILE:HG21	1:A:282:ILE:HD12	1.47	0.96
1:B:116:TYR:HB2	1:C:402:GLY:N	1.80	0.96
1:E:345:LEU:HD13	1:E:581:TYR:CD1	1.99	0.96
1:F:439:GLU:HG2	1:F:439:GLU:O	1.62	0.96
1:F:829:THR:HG22	1:F:830:GLY:N	1.77	0.96
1:H:913:PRO:HB2	5:P:8:PHE:CB	1.94	0.96
1:I:165:ILE:O	1:I:210:PHE:HE1	1.43	0.96
1:I:348:GLN:HB2	1:I:580:THR:HB	1.47	0.96
4:M:194:LEU:HD21	6:U:197:TYR:OH	1.65	0.96
1:A:459:ALA:N	1:C:837:ARG:HH12	1.63	0.96
1:B:138:LYS:HB3	1:B:147:VAL:HG13	1.46	0.96
1:F:267:SER:N	1:F:277:TYR:CE2	2.33	0.96
1:F:664:PRO:HG3	5:P:19:THR:CG2	1.94	0.96
1:H:729:VAL:HG12	1:H:730:SER:H	1.27	0.96
1:L:609:ARG:O	1:L:611:ASP:OD2	1.83	0.96
5:Q:9:GLU:CG	5:Q:10:GLY:N	2.23	0.96
1:A:445:ALA:N	1:B:152:ASP:CA	2.26	0.96
1:B:769:GLN:HG3	1:B:794:PHE:CD1	2.00	0.96
1:D:79:LEU:HD22	1:D:341:ASN:HD22	1.21	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:148:GLN:HG2	1:D:149:GLN:N	1.79	0.96
1:H:75:ALA:CB	1:H:80:TYR:HD1	1.77	0.96
1:I:345:LEU:O	1:I:345:LEU:HD13	1.63	0.96
5:Q:133:ASN:O	5:Q:134:LYS:HD2	1.64	0.96
7:1:22:TRP:CZ3	7:1:25:ILE:HG21	1.99	0.96
1:C:103:ILE:HG21	1:C:610:PHE:CD2	2.00	0.96
1:E:204:TRP:CZ3	1:F:313:VAL:CG1	2.48	0.96
1:J:239:GLN:HE21	1:J:240:ALA:H	1.08	0.96
1:K:63:ARG:HG2	1:K:66:LEU:HD23	1.46	0.96
1:K:222:MET:HG2	1:K:307:SER:OG	1.66	0.96
1:K:291:GLU:O	1:K:293:PRO:CD	2.13	0.96
1:K:724:MET:CE	1:K:730:SER:H	1.78	0.96
1:L:60:ARG:HH11	6:V:108:LEU:HB3	1.31	0.96
1:A:459:ALA:N	1:C:837:ARG:NH1	2.13	0.96
1:B:194:GLN:HG2	1:B:197:PRO:CD	1.96	0.96
1:B:377:ARG:HB3	1:B:388:VAL:HG22	0.96	0.96
1:B:842:TYR:CG	1:B:843:PRO:HD2	2.00	0.96
1:C:167:ILE:CB	1:C:280:ASP:OD2	2.13	0.96
1:H:360:ASP:HB2	1:H:942:ARG:NH2	1.80	0.96
1:H:450:ASN:HB2	1:I:156:THR:HA	1.44	0.96
1:J:677:GLY:H	1:J:921:GLU:CG	1.77	0.96
1:K:937:GLU:CD	6:U:37:GLY:H	1.69	0.96
1:L:346:ALA:O	1:L:580:THR:HG22	1.65	0.96
1:L:717:THR:HB	1:L:908:ASP:OD1	1.64	0.96
1:B:239:GLN:HE21	1:B:240:ALA:N	1.63	0.96
1:D:204:TRP:NE1	1:D:415:ASN:HB2	1.79	0.96
1:D:446:ILE:HD12	1:E:141:GLN:CB	1.95	0.96
1:E:52:PRO:HG3	7:3:23:ASN:HB2	0.99	0.96
1:F:901:LEU:O	1:F:901:LEU:HG	1.64	0.96
1:G:198:GLN:HG2	1:G:199:VAL:H	1.25	0.96
1:G:211:TYR:CE1	1:I:454:LYS:HD3	2.01	0.96
1:K:456:ASN:HD21	1:L:200:GLY:HA3	1.30	0.96
1:L:346:ALA:HB2	1:L:353:ASN:HA	1.46	0.96
1:B:162:THR:HG21	1:B:172:LEU:HD22	1.48	0.96
1:C:52:PRO:HD3	7:1:23:ASN:OD1	1.64	0.96
1:D:169:ASN:HD21	1:F:432:ASN:CB	1.78	0.96
1:F:321:PRO:HG2	1:F:538:PRO:HB3	1.46	0.96
1:H:736:ARG:O	1:H:737:LEU:HD22	1.65	0.96
1:L:249:GLU:HG3	1:L:250:GLN:H	1.29	0.96
1:C:352:LEU:HD11	1:J:63:ARG:HE	1.30	0.96
1:D:400:ASN:ND2	1:D:520:ILE:HA	1.79	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:111:PRO:HB3	1:F:853:GLN:OE1	1.66	0.96
1:E:392:ASP:HB3	1:E:395:VAL:HG12	1.47	0.96
1:F:397:ILE:HD13	1:F:523:ARG:NH2	1.78	0.96
1:J:804:GLN:HB3	1:J:850:LEU:HD21	1.46	0.96
1:K:243:LYS:HB3	1:K:244:PRO:HD2	1.48	0.96
4:M:156:GLN:HB2	4:M:210:TRP:O	1.66	0.96
5:R:39:ARG:HG2	5:R:41:VAL:CG2	1.96	0.96
1:B:28:LEU:HD22	1:C:639:HIS:CD2	2.01	0.96
1:B:456:ASN:CG	1:C:198:GLN:OE1	2.04	0.96
1:D:149:GLN:O	1:D:150:GLU:CD	2.03	0.96
1:E:644:ASN:CB	1:E:925:VAL:HG12	1.95	0.96
1:F:370:LEU:HB2	1:F:646:TYR:CD1	2.01	0.96
1:H:155:LYS:NZ	1:H:215:ALA:CB	2.29	0.96
1:J:158:GLY:C	1:L:452:ILE:HG23	1.85	0.96
1:J:808:GLU:HG3	1:J:814:TYR:CE2	2.00	0.96
1:L:159:VAL:O	1:L:159:VAL:CG1	2.12	0.96
1:I:462:ILE:HG12	1:I:463:ASN:H	1.31	0.95
1:J:280:ASP:O	1:J:281:ILE:HG22	1.64	0.95
1:K:450:ASN:CG	1:L:156:THR:HA	1.86	0.95
1:B:134:GLN:CD	1:B:151:LYS:CE	2.34	0.95
1:C:910:MET:CE	1:C:914:THR:HG21	1.96	0.95
1:E:192:THR:HG22	1:E:193:PHE:HD1	1.27	0.95
1:G:161:ALA:HB1	1:G:198:GLN:NE2	1.74	0.95
1:H:49:THR:HG23	1:I:884:ALA:HB3	1.46	0.95
1:H:78:TYR:HB2	1:H:79:LEU:HD12	1.45	0.95
1:J:38:TYR:CE1	1:K:56:VAL:CG1	2.44	0.95
1:J:328:ASP:OD1	1:J:328:ASP:C	2.03	0.95
1:J:677:GLY:O	1:J:921:GLU:CG	2.14	0.95
1:L:398:ILE:HD13	1:L:473:LEU:HD11	1.43	0.95
1:B:324:ILE:HD11	1:B:595:SER:CB	1.96	0.95
1:C:327:ARG:HG2	1:C:594:GLN:HB2	1.45	0.95
1:E:462:ILE:HG21	1:F:411:CYS:SG	2.04	0.95
1:F:808:GLU:HG2	1:F:814:TYR:HE2	1.15	0.95
1:I:476:ASN:O	1:I:480:TYR:CD2	2.19	0.95
1:L:752:GLU:CG	1:L:754:TYR:HE1	1.79	0.95
1:A:204:TRP:HE1	1:A:415:ASN:HB2	1.31	0.95
1:C:529:MET:O	1:C:529:MET:HG3	1.64	0.95
1:C:922:VAL:CG2	1:C:944:PRO:HD2	1.96	0.95
1:F:942:ARG:NH2	1:F:947:ALA:HB2	1.81	0.95
1:G:49:THR:O	1:G:49:THR:CG2	2.10	0.95
1:L:649:ALA:HB1	1:L:920:PHE:C	1.86	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:813:ASP:O	1:A:813:ASP:OD1	1.83	0.95
1:B:651:ASN:HB3	1:B:919:LEU:HD21	1.45	0.95
1:B:756:VAL:CG2	1:B:763:LYS:HG2	1.97	0.95
1:C:364:GLU:HA	1:C:364:GLU:OE2	1.66	0.95
1:C:725:PHE:CE1	1:C:901:LEU:HD13	2.01	0.95
1:F:383:MET:SD	1:F:561:GLN:OE1	2.23	0.95
1:G:206:GLU:O	1:G:207:ASN:OD1	1.85	0.95
1:H:135:TRP:CH2	1:H:309:GLU:CB	2.48	0.95
1:H:249:GLU:HG3	1:H:250:GLN:H	1.26	0.95
1:I:69:VAL:CG2	1:I:70:PRO:CD	2.44	0.95
1:I:321:PRO:HG2	1:I:538:PRO:HB3	1.46	0.95
1:B:644:ASN:H	1:B:644:ASN:HD22	0.98	0.95
1:C:295:THR:CG2	1:C:318:PRO:HA	1.96	0.95
1:C:896:ASN:HD21	6:U:21:ALA:CB	1.79	0.95
1:D:79:LEU:HD11	1:D:584:ASN:CB	1.94	0.95
1:D:731:TRP:CD2	1:D:732:PRO:CD	2.48	0.95
1:E:194:GLN:O	1:E:197:PRO:HD2	0.77	0.95
1:E:571:ASN:HD22	1:E:571:ASN:N	1.55	0.95
1:E:731:TRP:O	1:E:733:GLY:N	1.98	0.95
1:F:362:ASN:HD22	1:F:365:LEU:HB3	1.28	0.95
1:F:666:SER:HB2	5:R:16:TYR:HE2	1.17	0.95
1:H:92:ARG:NH1	1:H:92:ARG:HG2	1.45	0.95
1:I:193:PHE:CE1	1:I:284:TYR:HD1	1.81	0.95
1:J:836:MET:SD	1:L:203:ASN:HA	2.05	0.95
1:K:750:ASP:OD2	1:K:750:ASP:O	1.83	0.95
1:L:510:ALA:CB	1:L:832:LEU:O	2.14	0.95
2:N:393:MET:HE2	2:N:479:LEU:HD13	1.48	0.95
4:M:246:VAL:HG11	4:M:249:ASN:HB2	1.49	0.95
1:F:463:ASN:ND2	1:F:466:ALA:CB	2.29	0.95
1:G:280:ASP:OD1	1:G:281:ILE:HG22	1.67	0.95
1:H:104:ARG:HH12	1:I:752:GLU:CA	1.80	0.95
2:N:271:LEU:HA	2:N:367:VAL:HG21	1.47	0.95
5:P:36:VAL:HG23	5:P:43:PRO:CG	1.96	0.95
6:V:205:PRO:CB	6:V:208:TYR:CE1	2.40	0.95
1:B:648:SER:HB2	1:B:922:VAL:O	1.67	0.95
1:C:55:ASP:O	1:C:623:ALA:HB2	1.66	0.95
1:G:13:MET:CE	1:H:941:LEU:HB2	1.96	0.95
1:G:443:ASP:CG	1:H:150:GLU:HG2	1.86	0.95
1:H:602:ARG:HB3	5:Q:35:THR:OG1	1.67	0.95
1:J:322:ASN:CB	1:J:597:LEU:HB2	1.96	0.95
1:K:709:ASP:OD1	1:K:709:ASP:C	2.03	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:134:GLN:HB3	1:L:154:THR:HG23	0.97	0.95
5:Q:35:THR:CG2	5:Q:40:PRO:CG	2.44	0.95
1:E:192:THR:CG2	1:E:284:TYR:CD1	2.50	0.95
1:I:644:ASN:N	1:I:644:ASN:HD22	1.64	0.95
1:J:198:GLN:HE22	1:K:840:GLN:HG2	1.30	0.95
6:V:205:PRO:O	6:V:208:TYR:HD1	1.47	0.95
7:9:16:ARG:CD	7:9:21:THR:HG22	1.97	0.95
1:A:356:VAL:O	1:A:356:VAL:HG13	1.67	0.95
1:A:533:ASN:OD1	1:A:713:TYR:CE2	2.18	0.95
1:C:738:LEU:CB	1:C:754:TYR:HE2	1.79	0.95
1:D:265:GLY:O	1:D:276:GLU:CB	2.14	0.95
1:D:526:LEU:HD13	1:D:528:PRO:HD2	1.49	0.95
1:E:449:GLN:HG3	1:E:450:ASN:H	1.29	0.95
1:E:682:ARG:CZ	1:E:910:MET:CE	2.44	0.95
1:E:896:ASN:O	1:E:896:ASN:OD1	1.85	0.95
1:G:202:GLU:HB3	1:H:313:VAL:HG21	1.49	0.95
1:H:239:GLN:HE21	1:H:240:ALA:H	1.06	0.95
1:H:753:GLY:O	1:H:763:LYS:NZ	1.99	0.95
1:I:246:ASN:ND2	1:I:250:GLN:C	2.20	0.95
1:J:93:VAL:HG12	1:J:575:LEU:HD23	0.97	0.95
1:J:134:GLN:HA	1:J:154:THR:C	1.87	0.95
1:J:928:VAL:HA	1:J:937:GLU:O	1.65	0.95
1:L:151:LYS:O	1:L:154:THR:OG1	1.84	0.95
1:L:576:PRO:HD2	1:L:631:GLU:HG3	1.48	0.95
1:L:827:GLY:HA2	1:L:839:GLY:C	1.87	0.95
2:N:230:HIS:HE1	2:N:376:PRO:HD3	1.12	0.95
1:A:414:LEU:HD11	1:B:837:ARG:HD3	1.45	0.94
1:B:241:LYS:HD3	1:B:256:ILE:HG12	1.49	0.94
1:B:377:ARG:CB	1:B:388:VAL:HG22	1.90	0.94
1:B:423:TYR:C	1:B:449:GLN:HG2	1.88	0.94
1:E:428:ILE:HG21	1:F:169:ASN:HD22	1.20	0.94
1:J:730:SER:C	1:J:732:PRO:HD2	1.86	0.94
1:J:921:GLU:O	1:J:922:VAL:CG1	2.14	0.94
5:Q:52:ALA:O	5:Q:54:VAL:CG2	2.14	0.94
7:4:17:PRO:CD	7:4:22:TRP:O	2.14	0.94
1:A:823:HIS:HB3	1:C:196:GLU:CD	1.86	0.94
1:B:241:LYS:HE2	1:B:286:GLU:OE2	1.67	0.94
1:C:266:GLY:HA3	1:C:277:TYR:HD2	0.80	0.94
1:C:724:MET:HB3	1:C:729:VAL:HB	1.49	0.94
1:G:240:ALA:HB3	1:G:288:VAL:HG23	1.47	0.94
1:G:413:PRO:O	1:G:415:ASN:O	1.85	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:787:TYR:CD1	1:G:787:TYR:O	2.20	0.94
1:H:269:PRO:CB	1:H:277:TYR:CD2	2.50	0.94
1:H:661:THR:OG1	1:H:907:VAL:O	1.85	0.94
1:H:662:ASN:OD1	5:Q:9:GLU:OE2	1.83	0.94
1:I:103:ILE:HG23	1:I:613:VAL:HG22	0.96	0.94
1:I:243:LYS:HG3	1:I:251:PRO:HB3	1.46	0.94
1:I:831:TYR:HB2	1:I:838:GLN:NE2	1.81	0.94
6:U:169:LEU:CD1	7:1:29:GLN:O	2.15	0.94
1:C:217:LYS:CE	1:C:257:ASP:OD1	2.15	0.94
1:C:533:ASN:HB2	1:C:713:TYR:CZ	2.02	0.94
1:D:709:ASP:OD2	1:D:709:ASP:O	1.84	0.94
1:D:939:VAL:CG1	1:D:951:THR:HG23	1.98	0.94
1:E:103:ILE:H	1:E:103:ILE:HD12	1.28	0.94
1:G:416:GLY:O	1:G:457:VAL:HG13	1.65	0.94
1:G:417:THR:HB	1:H:157:PHE:HZ	1.28	0.94
1:H:366:SER:CB	1:H:647:LEU:HB2	1.97	0.94
5:R:8:PHE:CE2	5:R:9:GLU:CB	2.49	0.94
7:7:21:THR:HG22	7:7:21:THR:O	1.66	0.94
1:A:197:PRO:CG	1:B:831:TYR:CE1	2.47	0.94
1:B:134:GLN:CD	1:B:151:LYS:HE2	1.88	0.94
1:B:226:TYR:O	1:B:226:TYR:CG	2.20	0.94
1:E:162:THR:CG2	1:E:163:GLY:N	2.28	0.94
1:E:644:ASN:HB3	1:E:925:VAL:CG1	1.98	0.94
1:G:157:PHE:HE2	1:I:415:ASN:HD22	1.05	0.94
1:G:356:VAL:HG12	1:G:940:TYR:CD1	2.02	0.94
1:G:445:ALA:HB3	1:G:449:GLN:HG2	1.48	0.94
1:H:746:LYS:HG2	1:H:760:ASN:ND2	1.82	0.94
1:I:831:TYR:CB	1:I:838:GLN:NE2	2.30	0.94
1:K:198:GLN:HB3	1:L:838:GLN:O	1.67	0.94
1:A:199:VAL:CG1	1:C:456:ASN:OD1	2.15	0.94
1:A:533:ASN:HA	1:A:713:TYR:CZ	2.03	0.94
1:C:476:ASN:O	1:C:480:TYR:HD2	1.50	0.94
1:D:479:LEU:O	1:D:486:LYS:NZ	2.00	0.94
1:E:24:LEU:HD21	1:E:45:PHE:CE2	2.01	0.94
1:E:46:ARG:NH2	1:F:923:PHE:CD1	2.33	0.94
1:E:110:GLY:HA3	1:E:605:GLY:HA2	1.47	0.94
1:I:188:TYR:O	1:I:256:ILE:HD12	1.67	0.94
1:I:417:THR:CG2	1:I:457:VAL:CG1	2.33	0.94
1:K:58:THR:HB	1:K:623:ALA:HA	1.48	0.94
1:K:202:GLU:OE1	1:L:313:VAL:HB	1.68	0.94
1:K:241:LYS:HZ3	1:K:256:ILE:CD1	1.77	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:409:ASN:HD22	1:K:409:ASN:H	0.97	0.94
1:L:7:MET:CG	1:L:8:PRO:HD2	1.91	0.94
1:L:151:LYS:CG	1:L:154:THR:OG1	2.16	0.94
1:L:670:ARG:NH1	1:L:945:PHE:CE2	2.36	0.94
4:M:185:TYR:CE2	4:M:201:GLN:HG2	2.03	0.94
1:A:107:LEU:CD1	1:A:607:SER:HB3	1.88	0.94
1:A:198:GLN:HG2	1:B:838:GLN:CB	1.97	0.94
1:A:262:ASP:O	1:C:423:TYR:HB3	1.66	0.94
1:D:826:SER:HB2	1:F:196:GLU:HB3	1.46	0.94
1:E:155:LYS:HD2	1:E:261:PHE:CZ	2.02	0.94
1:F:361:ARG:HH11	1:F:361:ARG:CB	1.79	0.94
1:H:148:GLN:CG	1:H:150:GLU:OE2	2.16	0.94
1:H:309:GLU:OE1	1:H:309:GLU:O	1.86	0.94
1:K:241:LYS:HD3	1:K:256:ILE:CD1	1.92	0.94
1:L:199:VAL:CG1	1:L:206:GLU:HG3	1.95	0.94
5:Q:39:ARG:NH1	5:Q:60:ASP:OD1	2.01	0.94
6:U:169:LEU:HD13	7:1:30:LEU:HA	1.47	0.94
1:A:28:LEU:CD2	1:B:639:HIS:CD2	2.50	0.94
1:B:187:ILE:HG13	1:B:191:LYS:CD	1.98	0.94
1:D:202:GLU:HB2	1:D:206:GLU:HG2	1.48	0.94
1:D:260:TYR:CD2	1:D:282:ILE:CG2	2.51	0.94
1:E:244:PRO:HD2	1:E:253:ASP:HB3	1.50	0.94
1:F:298:VAL:CG1	1:F:315:GLN:O	2.13	0.94
1:F:829:THR:CG2	1:F:830:GLY:H	1.81	0.94
1:H:20:ALA:HB1	7:5:9:LEU:CD1	1.64	0.94
1:H:744:GLU:O	1:H:744:GLU:HG3	1.63	0.94
1:I:684:LYS:HA	1:I:914:THR:HG22	1.48	0.94
1:J:327:ARG:HG2	1:J:594:GLN:HB2	1.49	0.94
1:L:268:PRO:HD2	1:L:277:TYR:CE2	2.03	0.94
4:M:173:VAL:O	4:M:177:GLU:CD	2.06	0.94
1:B:155:LYS:HG3	1:B:261:PHE:HZ	1.28	0.94
1:B:204:TRP:HZ3	1:C:313:VAL:HA	1.33	0.94
1:B:731:TRP:HE3	1:B:732:PRO:CD	1.79	0.94
1:C:724:MET:HE3	1:C:729:VAL:CG1	1.97	0.94
1:C:748:SER:HB3	1:C:760:ASN:ND2	1.82	0.94
1:D:276:GLU:O	1:F:440:TRP:CE3	2.19	0.94
1:D:429:THR:HG23	1:D:439:GLU:CG	1.98	0.94
1:E:46:ARG:HH22	1:F:923:PHE:HD1	0.98	0.94
1:F:362:ASN:HD21	1:F:365:LEU:CB	1.79	0.94
1:G:266:GLY:HA3	1:G:277:TYR:CD2	2.03	0.94
1:G:925:VAL:CG1	1:I:46:ARG:NH1	2.31	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:159:VAL:CG1	1:I:840:GLN:HB2	1.96	0.94
1:I:448:ARG:HG3	1:I:449:GLN:H	1.31	0.94
1:I:842:TYR:CG	1:I:843:PRO:HD2	2.03	0.94
1:J:280:ASP:O	1:J:281:ILE:CG2	2.15	0.94
1:J:727:SER:HA	5:Q:20:ARG:NH2	1.81	0.94
1:K:738:LEU:HD22	1:K:754:TYR:HE2	1.33	0.94
1:L:718:PHE:HB2	1:L:745:ILE:HD13	1.45	0.94
1:L:829:THR:HG22	1:L:830:GLY:H	1.33	0.94
5:P:36:VAL:HG23	5:P:43:PRO:HG3	1.47	0.94
5:Q:35:THR:HG23	5:Q:40:PRO:HB3	0.95	0.94
7:1:22:TRP:HZ3	7:1:25:ILE:HG21	1.31	0.94
1:C:725:PHE:HE1	1:C:901:LEU:HD13	1.32	0.94
1:D:415:ASN:O	1:E:129:ALA:HB1	1.65	0.94
1:F:155:LYS:HG3	1:F:261:PHE:CZ	2.02	0.94
1:F:229:PHE:O	1:F:229:PHE:HD2	1.30	0.94
1:F:641:GLN:HE21	1:F:641:GLN:H	0.94	0.94
1:H:269:PRO:HD2	1:H:273:SER:HB3	1.50	0.94
1:I:744:GLU:O	1:I:765:TRP:HB2	1.66	0.94
1:K:101:PHE:HZ	1:K:581:TYR:HE2	1.04	0.94
1:L:193:PHE:CE2	1:L:284:TYR:CE1	2.55	0.94
7:4:6:PHE:CD1	7:4:6:PHE:O	2.21	0.94
1:B:79:LEU:HD22	1:B:335:TYR:HE1	1.13	0.94
1:C:103:ILE:CG2	1:C:610:PHE:HD2	1.79	0.94
1:C:147:VAL:O	1:C:147:VAL:HG12	1.63	0.94
1:F:103:ILE:HB	1:F:560:ILE:CD1	1.96	0.94
1:F:760:ASN:OD1	5:P:54:VAL:CG2	2.15	0.94
1:H:245:VAL:O	1:H:245:VAL:HG12	1.65	0.94
1:H:433:ASP:OD1	1:H:433:ASP:N	1.98	0.94
1:L:347:GLY:O	1:L:350:SER:O	1.86	0.94
1:A:24:LEU:HD12	1:A:28:LEU:HD23	1.45	0.93
1:A:198:GLN:CG	1:B:838:GLN:HA	1.98	0.93
1:B:298:VAL:CG2	1:B:317:MET:CG	2.45	0.93
1:C:357:ASP:OD2	1:C:566:PHE:CE1	2.21	0.93
1:D:200:GLY:HA3	1:D:206:GLU:CG	1.98	0.93
1:D:249:GLU:HG3	1:D:250:GLN:H	1.30	0.93
1:E:163:GLY:N	1:E:199:VAL:HG21	1.83	0.93
1:K:3:THR:O	1:K:3:THR:HG22	1.67	0.93
1:L:507:ARG:HH11	1:L:507:ARG:HB3	1.33	0.93
1:L:912:GLU:OE2	1:L:912:GLU:HA	1.66	0.93
5:P:35:THR:CG2	5:P:40:PRO:CA	2.46	0.93
5:R:8:PHE:CD2	5:R:9:GLU:CA	2.51	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:R:14:SER:OG	5:R:15:PRO:HD3	1.67	0.93
1:A:188:TYR:HE1	1:A:256:ILE:CG2	1.68	0.93
1:B:380:TYR:CE2	1:B:387:ALA:HB1	2.03	0.93
1:D:827:GLY:O	1:D:828:PHE:CD2	2.21	0.93
1:E:333:LEU:HD13	1:E:592:ILE:CG2	1.98	0.93
1:E:474:TYR:HA	1:E:478:ALA:HB3	1.49	0.93
1:I:530:ASP:O	1:I:530:ASP:OD1	1.86	0.93
1:I:865:LEU:O	1:I:865:LEU:HG	1.67	0.93
1:J:838:GLN:HA	1:K:456:ASN:ND2	1.83	0.93
1:K:358:LEU:HD12	1:K:942:ARG:NH2	1.81	0.93
2:N:174:ILE:HD11	2:N:231:PRO:HB3	1.49	0.93
1:B:58:THR:OG1	1:B:622:MET:C	2.07	0.93
1:B:651:ASN:CB	1:B:919:LEU:CD2	2.47	0.93
1:B:749:VAL:O	1:B:750:ASP:OD1	1.86	0.93
1:C:537:HIS:HD2	1:C:539:ARG:HB2	1.33	0.93
1:D:427:LYS:HG2	1:D:441:GLU:HG3	1.50	0.93
1:H:659:LYS:O	1:H:659:LYS:HG3	1.68	0.93
1:I:327:ARG:NH1	1:I:594:GLN:HB3	1.82	0.93
4:M:246:VAL:CG1	4:M:249:ASN:HB2	1.98	0.93
6:U:13:TYR:CD1	6:U:188:PHE:CD2	2.57	0.93
1:B:242:PHE:CZ	1:B:288:VAL:N	2.37	0.93
1:F:277:TYR:HE1	1:F:279:ALA:CB	1.80	0.93
1:H:177:ASP:CG	1:H:178:GLU:H	1.72	0.93
1:H:450:ASN:ND2	1:I:155:LYS:O	2.01	0.93
1:H:677:GLY:H	1:H:921:GLU:HB2	1.33	0.93
1:I:188:TYR:CD1	1:I:256:ILE:HD12	2.02	0.93
1:I:192:THR:HG21	1:I:214:ARG:HH11	1.33	0.93
1:I:260:TYR:HD2	1:I:282:ILE:HG23	1.32	0.93
1:J:3:THR:OG1	1:K:892:MET:CE	2.15	0.93
1:J:31:PHE:HE2	1:K:630:LEU:CD1	1.75	0.93
1:J:679:SER:O	1:J:919:LEU:HD23	1.68	0.93
1:J:924:ASP:OD2	1:J:942:ARG:CG	2.15	0.93
4:M:169:MET:SD	4:M:237:ILE:HG22	2.09	0.93
5:Q:16:TYR:CD2	5:R:18:THR:CG2	2.51	0.93
5:S:35:THR:OG1	5:S:40:PRO:HA	1.68	0.93
6:U:13:TYR:HD1	6:U:188:PHE:CD2	1.85	0.93
1:B:58:THR:OG1	1:B:622:MET:O	1.83	0.93
1:B:162:THR:CG2	1:B:163:GLY:N	2.28	0.93
1:B:933:ARG:NH2	4:M:92:LEU:HD23	1.84	0.93
1:B:943:THR:CG2	1:B:944:PRO:CD	2.44	0.93
1:C:653:LEU:HD11	1:C:707:TYR:CE1	2.04	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:752:GLU:OE2	1:C:754:TYR:CD1	2.22	0.93
1:E:155:LYS:NZ	1:E:283:LEU:HB3	1.83	0.93
1:F:831:TYR:HB2	1:F:838:GLN:HE21	1.14	0.93
1:G:452:ILE:HG23	1:H:158:GLY:HA3	1.49	0.93
1:H:339:THR:HG22	1:J:740:PRO:CG	1.96	0.93
1:H:351:GLN:HE21	1:H:351:GLN:N	1.65	0.93
1:J:201:GLU:HG2	1:K:299:TYR:CE1	2.03	0.93
1:L:193:PHE:CZ	1:L:284:TYR:HD1	1.74	0.93
1:L:313:VAL:O	1:L:313:VAL:CG1	2.06	0.93
1:L:575:LEU:HB3	1:L:576:PRO:HD2	1.48	0.93
1:L:656:ILE:HG22	1:L:915:LEU:HA	1.48	0.93
4:M:219:ARG:NH2	4:M:301:ASN:O	2.00	0.93
5:R:8:PHE:HD2	5:R:9:GLU:N	1.43	0.93
7:1:18:PHE:CE1	7:1:22:TRP:CZ3	2.56	0.93
1:A:188:TYR:CD1	1:A:256:ILE:CB	2.51	0.93
1:A:417:THR:CG2	1:A:453:CYS:HB2	1.99	0.93
1:B:180:ALA:CB	1:B:182:ASN:ND2	2.31	0.93
1:B:201:GLU:HG3	1:B:202:GLU:N	1.83	0.93
1:B:277:TYR:HE1	1:B:279:ALA:HB2	1.20	0.93
1:B:328:ASP:HB2	1:B:546:ARG:HH11	1.32	0.93
1:B:577:GLY:O	1:B:579:TYR:CE2	2.22	0.93
1:C:96:MET:CE	1:C:574:LEU:CD1	2.46	0.93
1:C:684:LYS:HE3	1:C:912:GLU:CB	1.97	0.93
1:D:428:ILE:CD1	1:E:169:ASN:CB	2.46	0.93
1:D:429:THR:HG23	1:D:439:GLU:OE2	1.69	0.93
1:D:851:ILE:HD11	1:F:116:TYR:HE2	1.29	0.93
1:F:370:LEU:CD2	1:F:570:LYS:HZ3	1.74	0.93
1:F:403:VAL:HG21	1:F:465:GLN:HB2	1.50	0.93
1:G:131:ASN:HB3	1:G:225:CYS:HB2	1.50	0.93
1:G:190:ASP:CG	1:G:191:LYS:N	2.21	0.93
1:G:313:VAL:CB	1:I:203:ASN:HB2	1.98	0.93
1:G:359:GLN:OE1	1:G:692:GLY:HA3	1.69	0.93
1:J:524:TRP:CE2	1:J:803:ARG:HD2	2.03	0.93
1:K:94:LEU:O	1:K:94:LEU:HG	1.66	0.93
1:K:709:ASP:OD1	1:K:709:ASP:O	1.87	0.93
1:L:268:PRO:CD	1:L:277:TYR:HE2	1.82	0.93
5:P:16:TYR:CG	5:Q:18:THR:HG23	2.02	0.93
1:A:828:PHE:CD2	1:B:412:PHE:CE1	2.56	0.93
1:E:103:ILE:HG23	1:E:610:PHE:HD2	1.33	0.93
1:E:204:TRP:NE1	1:E:415:ASN:HB2	1.81	0.93
1:F:217:LYS:HG3	1:F:218:LYS:H	0.78	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:831:TYR:CB	1:F:838:GLN:HE21	1.75	0.93
1:G:763:LYS:NZ	1:I:102:ASP:OD1	1.99	0.93
1:I:656:ILE:HG21	1:I:663:VAL:CG2	1.98	0.93
1:J:81:LYS:HE3	1:J:582:GLU:OE1	1.67	0.93
1:J:330:PHE:CE1	1:J:385:ASN:HB2	2.03	0.93
1:J:913:PRO:HB3	5:R:8:PHE:CD1	2.04	0.93
1:K:315:GLN:NE2	1:K:836:MET:HB2	1.84	0.93
1:K:667:ILE:HG22	1:K:668:PRO:O	1.68	0.93
1:L:83:ARG:HA	1:L:582:GLU:HB2	1.48	0.93
7:9:17:PRO:HB2	7:9:18:PHE:CE1	2.04	0.93
1:A:107:LEU:HD13	1:A:607:SER:HB2	1.49	0.93
1:A:197:PRO:HD3	1:B:831:TYR:HE1	1.21	0.93
1:A:926:VAL:HG12	1:A:940:TYR:HD2	1.10	0.93
1:D:133:SER:O	1:D:155:LYS:HA	1.68	0.93
1:F:641:GLN:H	1:F:641:GLN:NE2	1.67	0.93
1:H:162:THR:HG22	1:H:163:GLY:N	1.83	0.93
1:K:584:ASN:H	1:K:584:ASN:HD22	1.17	0.93
5:S:9:GLU:O	5:S:9:GLU:HG3	1.07	0.93
1:A:405:ASP:OD1	1:A:405:ASP:O	1.87	0.93
1:B:533:ASN:OD1	1:B:536:ASN:ND2	2.02	0.93
1:D:472:PHE:CD1	1:D:539:ARG:NH2	2.37	0.93
1:F:571:ASN:N	1:F:571:ASN:HD22	1.58	0.93
1:F:635:ARG:NH2	1:F:933:ARG:CA	2.29	0.93
1:G:705:ILE:O	1:G:709:ASP:OD1	1.87	0.93
1:G:776:ILE:CG2	1:G:776:ILE:CA	2.47	0.93
1:H:729:VAL:HG12	1:H:730:SER:N	1.82	0.93
1:J:56:VAL:HG11	1:K:882:MET:HE1	1.49	0.93
1:J:323:TYR:O	1:J:324:ILE:HG13	1.68	0.93
1:K:249:GLU:C	1:K:250:GLN:HG3	1.88	0.93
5:Q:50:THR:HG22	5:Q:50:THR:O	1.67	0.93
7:6:24:GLU:O	7:6:24:GLU:HG3	1.68	0.93
1:D:637:ASP:OD2	1:D:637:ASP:O	1.87	0.93
1:E:305:ASP:O	1:E:305:ASP:CG	2.04	0.93
1:G:787:TYR:O	1:G:787:TYR:HD1	1.49	0.93
1:J:263:VAL:HG22	1:L:423:TYR:CE2	2.04	0.93
1:J:270:ALA:HB2	1:J:276:GLU:O	1.68	0.93
1:J:573:LEU:CD1	1:J:634:LEU:CD1	2.46	0.93
1:K:572:LEU:O	1:K:572:LEU:HG	1.68	0.93
6:U:213:ILE:HG13	6:U:216:PHE:HB2	1.49	0.93
7:2:16:ARG:HH11	7:2:21:THR:HG23	1.34	0.93
1:A:533:ASN:N	1:A:713:TYR:CZ	2.37	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:83:ARG:HH22	2:N:400:ARG:NH1	1.66	0.92
1:C:78:TYR:CE2	1:C:695:PHE:HE1	1.87	0.92
1:C:826:SER:O	1:C:828:PHE:N	2.02	0.92
1:D:472:PHE:CE1	1:D:539:ARG:CZ	2.52	0.92
1:F:203:ASN:OD1	1:F:204:TRP:CD1	2.21	0.92
1:H:524:TRP:CD2	1:H:803:ARG:HG2	2.03	0.92
1:I:491:ASN:O	1:I:493:LYS:NZ	2.01	0.92
1:I:665:ILE:HD11	1:I:903:MET:HG3	1.49	0.92
1:J:162:THR:HG21	1:J:193:PHE:CE2	2.04	0.92
1:J:650:ALA:CA	1:J:942:ARG:HH21	1.82	0.92
1:J:752:GLU:HG3	1:J:754:TYR:CE1	2.02	0.92
1:K:241:LYS:HZ2	1:K:256:ILE:HD13	1.25	0.92
1:K:890:GLN:HG2	1:K:890:GLN:O	1.67	0.92
2:N:406:SER:HB2	2:N:496:ARG:HB3	1.48	0.92
6:U:4:GLU:O	6:U:6:PRO:HD3	1.69	0.92
6:V:213:ILE:H	6:V:213:ILE:HD12	1.34	0.92
7:3:22:TRP:HZ3	7:3:25:ILE:HD12	1.16	0.92
1:C:357:ASP:CG	1:C:566:PHE:CE1	2.42	0.92
1:D:428:ILE:HD11	1:E:169:ASN:CB	1.98	0.92
1:E:319:ASN:ND2	1:E:319:ASN:H	1.61	0.92
1:G:356:VAL:HB	1:G:940:TYR:HE1	1.34	0.92
1:H:650:ALA:HB2	1:H:942:ARG:NE	1.84	0.92
1:J:839:GLY:HA2	1:L:198:GLN:HG3	1.49	0.92
1:L:773:HIS:NE2	1:L:794:PHE:HB2	1.83	0.92
1:E:162:THR:HG21	1:E:193:PHE:HE2	1.26	0.92
1:E:275:GLU:HB2	1:E:276:GLU:OE2	1.68	0.92
1:H:442:LYS:HE2	1:I:150:GLU:CD	1.88	0.92
1:J:31:PHE:HE2	1:K:630:LEU:HD13	1.24	0.92
1:J:162:THR:HG21	1:J:193:PHE:CG	2.02	0.92
1:K:462:ILE:HG13	1:L:410:TYR:O	1.69	0.92
1:L:137:THR:HG22	1:L:138:LYS:N	1.84	0.92
1:L:419:THR:CG2	1:L:451:GLN:HB2	2.00	0.92
2:N:488:ARG:HB2	2:N:488:ARG:HH11	1.33	0.92
5:P:16:TYR:CE2	5:Q:18:THR:HG23	2.04	0.92
1:B:116:TYR:CB	1:C:402:GLY:H	1.81	0.92
1:D:621:PRO:HB2	1:E:736:ARG:HH12	1.34	0.92
1:D:639:HIS:HD2	1:F:25:SER:H	1.18	0.92
1:E:268:PRO:HB3	1:E:275:GLU:OE1	1.69	0.92
1:E:746:LYS:HB3	1:E:864:PHE:HE2	1.34	0.92
1:I:151:LYS:CG	1:I:154:THR:OG1	2.15	0.92
1:I:760:ASN:CG	5:S:54:VAL:HG21	1.89	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:827:GLY:HA2	1:I:839:GLY:C	1.88	0.92
1:J:533:ASN:HB3	1:J:536:ASN:HD21	1.23	0.92
1:J:650:ALA:HB2	1:J:942:ARG:HH21	1.30	0.92
1:K:23:TYR:O	6:V:175:SER:HB3	1.69	0.92
1:K:536:ASN:CB	1:K:596:SER:O	2.15	0.92
1:L:377:ARG:HD3	1:L:388:VAL:HG22	1.48	0.92
2:N:258:GLN:OE1	2:N:261:GLN:CD	2.07	0.92
4:M:162:PHE:CD1	4:M:237:ILE:CD1	2.42	0.92
5:R:9:GLU:HB3	5:R:13:PHE:CD2	2.03	0.92
1:A:204:TRP:CZ3	1:B:313:VAL:CG1	2.51	0.92
1:B:83:ARG:NH2	2:N:400:ARG:NH1	2.18	0.92
1:B:161:ALA:CB	1:B:198:GLN:OE1	2.17	0.92
1:B:837:ARG:NH1	1:C:459:ALA:O	2.02	0.92
1:E:180:ALA:HB1	1:E:182:ASN:HD21	1.28	0.92
1:E:337:ASN:OD1	1:E:361:ARG:O	1.88	0.92
1:F:760:ASN:HB3	5:P:54:VAL:HG11	0.93	0.92
1:H:670:ARG:HB2	1:H:670:ARG:HH11	1.31	0.92
1:I:151:LYS:HG2	1:I:154:THR:HG1	1.30	0.92
1:K:262:ASP:OD2	1:K:263:VAL:N	2.03	0.92
2:N:455:ARG:CG	2:N:456:PRO:HD2	1.99	0.92
6:U:66:ARG:NH2	6:U:69:LEU:O	2.03	0.92
6:U:101:MET:HE2	6:U:108:LEU:HD21	1.52	0.92
1:A:194:GLN:O	1:A:196:GLU:N	2.01	0.92
1:C:83:ARG:HB3	1:C:582:GLU:CB	2.00	0.92
1:C:407:LEU:O	1:C:407:LEU:HD12	1.69	0.92
1:E:97:ALA:CB	1:F:779:GLN:O	2.18	0.92
1:E:174:LEU:CD1	1:E:186:ASP:OD1	2.18	0.92
1:G:186:ASP:OD1	1:G:191:LYS:HD3	1.70	0.92
1:G:333:LEU:HD12	1:G:592:ILE:HG21	1.50	0.92
1:G:741:ASN:O	1:G:742:GLU:CB	2.09	0.92
1:H:148:GLN:CD	1:H:150:GLU:OE2	2.08	0.92
1:H:747:ARG:NH1	1:H:754:TYR:CG	2.38	0.92
1:I:174:LEU:HD11	1:I:191:LYS:HE2	1.50	0.92
1:J:921:GLU:O	1:J:922:VAL:HG12	1.69	0.92
1:K:681:THR:HG22	1:K:682:ARG:H	1.34	0.92
1:K:837:ARG:HH12	1:L:459:ALA:H	1.18	0.92
1:C:194:GLN:O	1:C:196:GLU:N	2.03	0.92
1:E:258:PHE:HD2	1:E:282:ILE:HD11	1.32	0.92
1:F:94:LEU:HD11	1:F:617:ALA:HB1	1.50	0.92
1:F:398:ILE:CG1	1:F:398:ILE:O	2.18	0.92
1:G:13:MET:SD	1:H:941:LEU:CB	2.58	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:680:PHE:O	1:G:680:PHE:CD2	2.23	0.92
1:H:354:ALA:HA	6:V:109:ALA:HB1	1.49	0.92
1:H:670:ARG:HB2	1:H:670:ARG:NH1	1.83	0.92
1:K:291:GLU:OE2	1:L:854:THR:HB	1.67	0.92
7:9:16:ARG:CD	7:9:21:THR:CG2	2.46	0.92
1:B:116:TYR:HB2	1:C:402:GLY:H	1.31	0.92
1:B:196:GLU:HG3	1:C:831:TYR:HE1	1.19	0.92
1:C:266:GLY:CA	1:C:277:TYR:CD2	2.50	0.92
1:C:606:ALA:HB1	1:C:608:VAL:HG23	1.50	0.92
1:C:683:LEU:HD22	1:C:706:PRO:HB2	1.51	0.92
1:D:193:PHE:CZ	1:D:195:PRO:HA	2.04	0.92
1:G:13:MET:CE	1:H:925:VAL:CG2	2.46	0.92
1:G:143:THR:HG22	1:G:144:THR:N	1.82	0.92
1:H:588:ASP:OD1	1:H:602:ARG:NH2	2.02	0.92
1:J:942:ARG:HB3	1:J:946:SER:HA	1.49	0.92
1:L:609:ARG:HH21	5:Q:66:ALA:CB	1.77	0.92
2:N:428:ALA:HB3	2:N:460:THR:HG22	1.51	0.92
7:2:16:ARG:NH1	7:2:21:THR:CG2	2.33	0.92
1:B:3:THR:OG1	1:B:4:PRO:HD2	1.70	0.92
1:B:46:ARG:NH2	1:C:925:VAL:CG1	2.33	0.92
1:D:427:LYS:CG	1:D:441:GLU:HG3	1.99	0.92
1:D:939:VAL:HG13	1:D:951:THR:CG2	2.00	0.92
1:F:399:GLU:OE1	1:F:523:ARG:HG2	1.69	0.92
1:G:480:TYR:OH	1:G:538:PRO:HD3	1.70	0.92
1:H:108:ASP:CB	1:H:607:SER:HB2	2.00	0.92
1:I:303:THR:HG22	1:I:303:THR:O	1.68	0.92
1:J:650:ALA:HB1	1:J:942:ARG:HH21	1.15	0.92
1:J:698:TYR:HE1	5:P:46:SER:HA	1.32	0.92
1:K:113:PHE:HB2	1:K:324:ILE:HD12	1.48	0.92
1:K:489:PRO:HD3	1:K:508:VAL:HG12	1.49	0.92
1:L:35:THR:HG22	7:9:24:GLU:OE1	1.69	0.92
2:N:226:TYR:O	2:N:226:TYR:CD2	2.23	0.92
5:Q:126:ARG:HB2	5:Q:129:GLN:HE21	1.25	0.92
1:A:552:ASN:HB3	1:B:522:ALA:HB2	1.52	0.92
1:C:330:PHE:HE1	1:C:384:TRP:CA	1.82	0.92
1:D:410:TYR:OH	1:F:836:MET:HA	1.69	0.92
1:E:163:GLY:CA	1:E:199:VAL:HG21	2.00	0.92
1:E:192:THR:HG21	1:E:284:TYR:CD1	2.05	0.92
1:F:718:PHE:O	1:F:745:ILE:HG22	1.65	0.92
1:G:428:ILE:CD1	1:H:169:ASN:HB3	1.99	0.92
1:H:241:LYS:CE	1:H:286:GLU:OE1	2.18	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:170:GLN:NE2	1:I:185:LYS:HG3	1.84	0.92
1:I:682:ARG:NE	1:I:907:VAL:HG21	1.85	0.92
1:K:131:ASN:ND2	1:K:131:ASN:H	1.65	0.92
7:6:22:TRP:CZ2	7:6:25:ILE:HD13	2.04	0.92
7:9:18:PHE:O	7:9:20:GLY:O	1.88	0.92
1:A:169:ASN:HD22	1:C:428:ILE:HG21	1.35	0.91
1:A:423:TYR:CE2	1:B:263:VAL:CG2	2.50	0.91
1:A:737:LEU:HD12	1:A:740:PRO:HA	1.50	0.91
1:B:180:ALA:HB3	1:B:182:ASN:ND2	1.85	0.91
1:C:481:LEU:HD23	1:C:529:MET:HE1	1.51	0.91
1:D:877:SER:CB	1:F:57:THR:HG21	2.00	0.91
1:F:177:ASP:OD1	1:F:177:ASP:N	2.01	0.91
1:F:247:GLU:HG2	1:F:247:GLU:O	1.67	0.91
1:G:263:VAL:CG1	1:G:264:PRO:HD2	2.01	0.91
1:I:644:ASN:HD22	1:I:644:ASN:H	1.05	0.91
1:J:131:ASN:HB3	1:J:225:CYS:HB2	1.53	0.91
1:L:829:THR:HG22	1:L:830:GLY:N	1.83	0.91
5:Q:9:GLU:CG	5:Q:10:GLY:H	1.80	0.91
6:V:10:MET:HA	6:V:10:MET:CE	1.99	0.91
6:V:183:ILE:HB	6:V:187:GLN:HG2	1.50	0.91
7:5:24:GLU:CD	7:5:25:ILE:H	1.73	0.91
1:A:510:ALA:HB2	1:A:832:LEU:HD12	1.50	0.91
1:B:940:TYR:O	1:B:948:GLY:O	1.88	0.91
1:C:896:ASN:HD21	6:U:21:ALA:HB1	1.09	0.91
1:D:427:LYS:CG	1:D:441:GLU:CD	2.30	0.91
1:D:683:LEU:O	1:D:914:THR:HG23	1.70	0.91
1:E:200:GLY:O	1:E:202:GLU:N	2.03	0.91
1:F:571:ASN:HD22	1:F:571:ASN:H	1.09	0.91
1:F:666:SER:CB	5:R:16:TYR:HE2	1.66	0.91
1:F:913:PRO:CG	5:Q:7:ALA:HB3	2.00	0.91
1:G:908:ASP:HB2	1:G:909:PRO:HD2	1.50	0.91
1:K:463:ASN:OD1	1:K:466:ALA:HB3	1.69	0.91
6:U:185:THR:HG22	6:U:186:LEU:HD23	1.50	0.91
6:V:201:PHE:CD2	6:V:208:TYR:CD2	2.54	0.91
1:A:128:GLY:O	1:C:204:TRP:HH2	1.48	0.91
1:A:716:HIS:ND1	1:A:716:HIS:O	2.04	0.91
1:C:530:ASP:OD1	1:C:865:LEU:CD1	2.17	0.91
1:D:79:LEU:HD13	1:D:335:TYR:HE2	1.33	0.91
1:D:222:MET:HE2	1:D:307:SER:HA	1.52	0.91
1:E:162:THR:HG22	1:E:163:GLY:O	1.69	0.91
1:H:344:VAL:HG23	1:H:353:ASN:HB2	0.92	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:215:ALA:HB3	1:I:285:THR:HG22	1.51	0.91
1:J:196:GLU:OE2	1:K:823:HIS:HB3	1.70	0.91
1:J:400:ASN:O	1:J:400:ASN:CG	2.08	0.91
1:J:840:GLN:HB2	1:J:841:PRO:HD2	1.51	0.91
5:P:28:ARG:HB3	5:P:31:VAL:CG2	2.01	0.91
5:P:28:ARG:HB3	5:P:31:VAL:HG21	1.49	0.91
6:V:2:SER:HB3	6:V:200:PRO:HD2	1.48	0.91
1:A:41:LEU:HD23	1:A:41:LEU:N	1.83	0.91
1:A:407:LEU:HD21	1:C:474:TYR:HD2	1.26	0.91
1:D:417:THR:HG22	1:D:419:THR:N	1.85	0.91
1:E:275:GLU:HB2	1:E:276:GLU:CD	1.91	0.91
1:L:361:ARG:HB2	1:L:361:ARG:NH1	1.86	0.91
4:M:185:TYR:CD2	4:M:201:GLN:HG2	2.05	0.91
5:Q:35:THR:CA	5:Q:43:PRO:HG2	1.99	0.91
5:Q:45:ASN:H	5:Q:45:ASN:HD22	1.16	0.91
5:S:14:SER:N	5:S:15:PRO:HD2	1.85	0.91
6:U:71:PRO:O	6:U:73:ASN:N	2.04	0.91
1:A:330:PHE:CZ	1:A:560:ILE:HG23	2.05	0.91
1:B:339:THR:HA	1:B:342:MET:HE2	0.93	0.91
1:C:174:LEU:CD1	1:C:191:LYS:NZ	2.33	0.91
1:C:263:VAL:HG13	1:C:264:PRO:HD2	1.52	0.91
1:C:560:ILE:HD12	1:C:562:VAL:HG23	1.52	0.91
1:E:172:LEU:HD22	1:E:193:PHE:CE2	2.06	0.91
1:G:169:ASN:HB2	1:I:428:ILE:HD13	1.50	0.91
1:H:346:ALA:CB	1:H:353:ASN:CA	2.46	0.91
1:H:827:GLY:HA2	1:H:839:GLY:O	1.70	0.91
1:I:774:TYR:HB2	1:I:776:ILE:HD13	1.51	0.91
1:I:797:ASN:HD22	1:I:797:ASN:H	1.19	0.91
5:Q:35:THR:HG22	5:Q:40:PRO:CG	1.99	0.91
7:2:9:LEU:O	7:2:9:LEU:CG	2.18	0.91
1:A:198:GLN:HB2	1:C:456:ASN:ND2	1.86	0.91
1:A:851:ILE:CD1	1:C:116:TYR:HE2	1.83	0.91
1:B:242:PHE:O	1:B:243:LYS:O	1.89	0.91
1:B:907:VAL:HG23	1:B:908:ASP:H	0.79	0.91
1:C:79:LEU:HD11	1:C:584:ASN:HB3	1.53	0.91
1:C:809:ILE:HG13	1:C:810:ASN:H	1.34	0.91
1:D:10:TRP:CZ3	1:E:943:THR:HG23	2.05	0.91
1:E:724:MET:HG3	1:E:728:SER:O	1.70	0.91
1:F:33:ARG:HD2	7:4:12:ARG:CB	2.01	0.91
1:F:194:GLN:HB2	1:F:197:PRO:HG2	1.53	0.91
1:F:686:LYS:HG2	5:Q:8:PHE:HZ	1.32	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:141:GLN:CG	1:I:446:ILE:CD1	2.48	0.91
1:G:721:VAL:HG23	1:G:905:PHE:CD1	2.06	0.91
1:H:113:PHE:HD1	1:H:324:ILE:HD12	1.30	0.91
1:I:262:ASP:CA	1:I:279:ALA:O	2.18	0.91
1:I:267:SER:O	1:I:276:GLU:N	2.04	0.91
1:J:942:ARG:O	1:J:946:SER:HB3	1.71	0.91
1:E:156:THR:HG23	1:E:157:PHE:N	1.84	0.91
1:E:203:ASN:OD1	1:E:203:ASN:C	2.09	0.91
1:E:260:TYR:HB3	1:E:280:ASP:OD2	1.71	0.91
1:H:82:ALA:HB2	1:H:613:VAL:HG21	1.50	0.91
1:I:243:LYS:HD2	1:I:253:ASP:O	1.71	0.91
1:J:796:ARG:HH11	1:J:796:ARG:HG3	1.36	0.91
7:1:22:TRP:HH2	7:1:25:ILE:HD13	1.36	0.91
1:A:81:LYS:HB3	1:A:584:ASN:OD1	1.70	0.91
1:C:174:LEU:HD11	1:C:191:LYS:NZ	1.85	0.91
1:D:154:THR:HG23	1:D:155:LYS:CG	2.00	0.91
1:F:223:LYS:HB3	1:F:224:PRO:HD2	1.50	0.91
1:G:141:GLN:CB	1:I:446:ILE:HD12	2.00	0.91
1:G:162:THR:HB	1:G:193:PHE:CE1	2.03	0.91
1:G:313:VAL:HB	1:I:203:ASN:HB2	1.49	0.91
1:H:456:ASN:H	1:H:456:ASN:HD22	1.19	0.91
1:H:650:ALA:HB2	1:H:942:ARG:HE	1.33	0.91
1:I:683:LEU:HD22	1:I:683:LEU:H	1.35	0.91
1:J:31:PHE:CD2	1:K:630:LEU:HD13	2.06	0.91
1:K:248:GLY:O	5:S:134:LYS:NZ	2.04	0.91
1:K:575:LEU:H	1:K:930:GLN:HE22	1.17	0.91
1:K:719:LYS:O	1:K:745:ILE:O	1.89	0.91
1:L:20:ALA:C	7:9:9:LEU:CD1	2.39	0.91
1:A:331:VAL:HG12	1:A:565:LYS:HZ1	1.32	0.91
1:A:665:ILE:HD12	1:A:905:PHE:HE1	1.35	0.91
1:C:507:ARG:HH11	1:C:507:ARG:HB3	1.34	0.91
1:D:587:LYS:HB3	1:D:610:PHE:CE1	2.06	0.91
1:D:723:ILE:HA	1:D:903:MET:HB3	1.52	0.91
1:F:32:ALA:HB2	1:F:41:LEU:HD12	1.52	0.91
1:I:419:THR:HG22	1:I:419:THR:O	1.71	0.91
1:J:721:VAL:HG11	1:J:905:PHE:CE1	2.05	0.91
1:K:837:ARG:NH1	1:L:459:ALA:N	2.18	0.91
5:R:82:MET:CG	5:R:88:SER:HB3	1.96	0.91
1:E:14:HIS:CD2	1:E:23:TYR:CD2	2.58	0.91
1:F:294:ASP:O	1:F:319:ASN:ND2	2.04	0.91
1:I:247:GLU:O	1:I:249:GLU:O	1.89	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:892:MET:HA	1:I:895:ALA:CB	2.00	0.91
1:J:639:HIS:CD2	1:L:28:LEU:HD22	2.06	0.91
1:K:10:TRP:HB2	6:V:16:GLN:O	1.71	0.91
1:K:560:ILE:HG13	1:K:560:ILE:O	1.69	0.91
1:L:525:SER:H	1:L:801:MET:HE3	1.33	0.91
5:Q:35:THR:HA	5:Q:43:PRO:CG	2.00	0.91
6:U:209:PRO:HB2	6:U:212:PHE:HD1	1.26	0.91
1:B:57:THR:HG21	1:C:877:SER:HB3	1.52	0.90
1:B:415:ASN:HD21	1:B:418:GLY:HA2	1.36	0.90
1:C:72:ASP:OD2	1:C:83:ARG:HG2	1.70	0.90
1:F:193:PHE:CE1	1:F:284:TYR:HE1	1.83	0.90
1:G:13:MET:HE1	1:H:925:VAL:CG2	2.01	0.90
1:G:360:ASP:OD2	1:G:942:ARG:CZ	2.18	0.90
1:G:511:PRO:HD2	1:G:832:LEU:O	1.71	0.90
1:H:67:ARG:NH1	1:I:752:GLU:OE2	2.00	0.90
1:H:155:LYS:HZ3	1:H:215:ALA:HB3	1.36	0.90
1:H:650:ALA:CA	1:H:942:ARG:HH21	1.83	0.90
1:I:241:LYS:HG3	1:I:254:LEU:HD22	1.52	0.90
1:I:486:LYS:HG2	1:I:509:VAL:HG12	1.52	0.90
1:I:656:ILE:CG2	1:I:663:VAL:CG2	2.48	0.90
1:K:658:ALA:CB	1:K:913:PRO:CD	2.41	0.90
1:K:910:MET:HE1	1:K:914:THR:HB	1.50	0.90
1:L:576:PRO:CD	1:L:631:GLU:HG3	2.01	0.90
4:M:176:SER:OG	4:M:191:ARG:O	1.88	0.90
5:S:50:THR:HG22	5:S:50:THR:O	1.71	0.90
1:A:95:ASP:HB2	1:A:573:LEU:HD12	1.51	0.90
1:B:381:PHE:CD1	1:C:795:PHE:CE1	2.59	0.90
1:F:706:PRO:HB3	1:F:711:THR:O	1.69	0.90
1:F:845:ASN:O	1:F:845:ASN:ND2	2.04	0.90
1:F:864:PHE:CD1	1:F:864:PHE:O	2.24	0.90
1:J:681:THR:HG22	1:J:682:ARG:N	1.86	0.90
1:J:682:ARG:HH12	1:J:910:MET:HE2	1.36	0.90
5:Q:4:THR:HG21	5:Q:13:PHE:CD2	2.05	0.90
5:R:31:VAL:HG12	5:R:31:VAL:O	1.69	0.90
7:4:9:LEU:O	7:4:9:LEU:HG	1.67	0.90
1:A:414:LEU:CD1	1:B:837:ARG:HD3	2.00	0.90
1:D:35:THR:O	1:D:35:THR:HG23	1.69	0.90
1:D:426:VAL:HG22	1:E:260:TYR:HB2	1.52	0.90
1:E:428:ILE:CD1	1:F:169:ASN:CG	2.39	0.90
1:E:440:TRP:CD2	1:E:440:TRP:N	2.32	0.90
1:F:193:PHE:HE1	1:F:284:TYR:CE1	1.89	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:886:THR:HG23	1:G:889:GLY:HA3	1.52	0.90
1:H:352:LEU:O	6:V:110:GLY:HA2	1.69	0.90
1:J:29:VAL:HG13	1:J:30:GLN:H	1.36	0.90
1:J:202:GLU:HA	1:K:313:VAL:HG11	1.51	0.90
1:K:199:VAL:HG13	1:K:206:GLU:HG2	1.51	0.90
1:K:403:VAL:HG11	1:K:466:ALA:HB2	1.53	0.90
1:K:677:GLY:O	1:K:921:GLU:HB2	1.72	0.90
6:V:223:VAL:CG1	6:V:224:ASP:N	2.32	0.90
1:A:456:ASN:HD21	1:C:838:GLN:HA	0.73	0.90
1:B:75:ALA:HB2	1:B:80:TYR:CE1	2.07	0.90
1:C:324:ILE:HG22	1:C:325:GLY:H	1.36	0.90
1:E:101:PHE:CZ	1:E:581:TYR:HE2	1.88	0.90
1:F:88:VAL:O	1:F:89:GLY:O	1.89	0.90
1:H:818:THR:HG22	1:H:820:PRO:CD	2.01	0.90
1:J:539:ARG:HH11	1:J:539:ARG:HB2	1.37	0.90
1:K:20:ALA:HB3	7:8:9:LEU:HD12	1.51	0.90
1:K:195:PRO:HB3	1:L:840:GLN:HE21	1.30	0.90
1:L:134:GLN:O	1:L:218:LYS:HA	1.71	0.90
1:L:192:THR:HG21	1:L:214:ARG:HH11	1.36	0.90
1:L:241:LYS:CD	1:L:286:GLU:OE1	2.19	0.90
1:L:609:ARG:HH21	5:Q:66:ALA:HA	1.35	0.90
5:Q:35:THR:CG2	5:Q:40:PRO:CA	2.43	0.90
1:A:644:ASN:HB3	1:A:925:VAL:CG1	2.01	0.90
1:B:368:GLN:NE2	1:B:377:ARG:HH12	1.65	0.90
1:E:649:ALA:HB1	1:E:920:PHE:O	1.70	0.90
1:F:575:LEU:HB3	1:F:576:PRO:HD2	1.53	0.90
1:G:269:PRO:HA	1:G:274:GLY:O	1.71	0.90
1:H:483:ASP:OD2	1:H:507:ARG:NH1	2.05	0.90
1:K:134:GLN:O	1:K:218:LYS:HA	1.70	0.90
1:L:59:ASP:C	1:L:59:ASP:OD2	2.05	0.90
1:L:76:THR:HG22	1:L:77:THR:H	1.35	0.90
1:L:476:ASN:ND2	1:L:539:ARG:HD2	1.87	0.90
1:L:609:ARG:HH22	5:Q:66:ALA:HB2	1.12	0.90
2:N:496:ARG:HG3	2:N:496:ARG:HH11	1.36	0.90
6:V:62:THR:CG2	6:V:190:GLU:HB3	2.02	0.90
7:2:16:ARG:HH12	7:2:21:THR:HG23	1.36	0.90
1:B:134:GLN:CG	1:B:154:THR:C	2.39	0.90
1:B:380:TYR:HE2	1:B:387:ALA:HB1	1.34	0.90
1:C:174:LEU:CD1	1:C:191:LYS:HZ3	1.85	0.90
1:C:188:TYR:O	1:C:256:ILE:HG13	1.71	0.90
1:C:267:SER:O	1:C:269:PRO:CD	2.20	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:842:TYR:HD2	1:C:843:PRO:O	1.53	0.90
1:E:731:TRP:C	1:E:733:GLY:N	2.20	0.90
1:G:663:VAL:HG12	1:G:905:PHE:O	1.72	0.90
1:G:723:ILE:O	1:G:730:SER:HA	1.72	0.90
1:H:327:ARG:HH21	1:H:705:ILE:HG12	1.37	0.90
1:J:158:GLY:C	1:L:452:ILE:CG2	2.40	0.90
1:J:456:ASN:HD21	1:K:199:VAL:HB	1.33	0.90
1:L:33:ARG:CZ	7:9:12:ARG:HD3	2.00	0.90
1:L:806:VAL:HG11	1:L:856:VAL:HG21	1.51	0.90
1:A:838:GLN:CB	1:C:198:GLN:CD	2.40	0.90
1:C:78:TYR:CE2	1:C:695:PHE:CE1	2.59	0.90
1:C:83:ARG:CB	1:C:582:GLU:CB	2.50	0.90
1:D:152:ASP:OD1	1:F:443:ASP:O	1.89	0.90
1:D:200:GLY:CA	1:D:206:GLU:HG3	2.00	0.90
1:D:239:GLN:HE21	1:D:240:ALA:H	1.20	0.90
1:G:825:ASN:HD21	1:I:124:LEU:H	1.09	0.90
1:H:67:ARG:NH2	1:I:752:GLU:HB2	1.87	0.90
1:J:723:ILE:O	1:J:730:SER:CA	2.19	0.90
1:K:107:LEU:HG	1:K:108:ASP:H	1.35	0.90
1:L:167:ILE:HD13	1:L:282:ILE:HG12	1.50	0.90
2:N:65:ASP:OD1	2:N:91:ALA:HB2	1.71	0.90
1:A:152:ASP:HB2	1:C:444:ASP:HA	1.52	0.90
1:A:417:THR:HG21	1:A:453:CYS:HB2	1.52	0.90
1:B:135:TRP:HE1	1:B:156:THR:CG2	1.84	0.90
1:B:154:THR:OG1	1:B:155:LYS:CG	2.20	0.90
1:B:533:ASN:CG	1:B:536:ASN:HD21	1.75	0.90
1:B:842:TYR:CD1	1:B:843:PRO:HD2	2.07	0.90
1:C:6:MET:HE2	1:C:6:MET:HA	1.54	0.90
1:C:724:MET:CB	1:C:729:VAL:CB	2.48	0.90
1:D:198:GLN:HG2	1:E:838:GLN:CB	1.96	0.90
1:F:514:VAL:O	1:F:514:VAL:CG1	2.19	0.90
1:G:637:ASP:O	1:G:637:ASP:OD2	1.87	0.90
1:H:266:GLY:CA	1:H:276:GLU:HB3	2.01	0.90
1:J:331:VAL:O	1:J:331:VAL:CG2	2.20	0.90
1:J:368:GLN:HG3	1:J:709:ASP:O	1.72	0.90
1:A:695:PHE:O	1:A:695:PHE:CD2	2.25	0.90
1:A:709:ASP:OD2	1:A:711:THR:HG22	1.72	0.90
1:B:339:THR:CA	1:B:342:MET:CE	2.43	0.90
1:B:738:LEU:CD2	1:B:754:TYR:CE2	2.54	0.90
1:C:210:PHE:HD2	1:C:280:ASP:OD1	1.55	0.90
1:C:363:THR:O	1:C:363:THR:CG2	2.18	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:684:LYS:HE2	1:C:912:GLU:HG3	1.52	0.90
1:E:222:MET:HE3	1:E:307:SER:CB	2.02	0.90
1:E:716:HIS:ND1	1:E:717:THR:HG23	1.86	0.90
1:G:241:LYS:HB2	1:G:254:LEU:HD22	1.54	0.90
1:H:139:GLU:HB2	1:H:152:ASP:OD2	1.70	0.90
1:L:647:LEU:HA	7:8:4:ILE:CG2	2.01	0.90
1:B:79:LEU:HD21	1:B:335:TYR:CZ	2.05	0.90
1:C:103:ILE:H	1:C:103:ILE:HD12	1.36	0.90
1:C:218:LYS:HG3	1:C:219:ASP:OD1	1.72	0.90
1:C:426:VAL:HG12	1:C:427:LYS:H	1.33	0.90
1:C:746:LYS:HG2	1:C:746:LYS:O	1.71	0.90
1:D:908:ASP:N	1:D:908:ASP:OD2	2.00	0.90
1:E:151:LYS:HG2	1:E:151:LYS:O	1.68	0.90
1:F:463:ASN:HD21	1:F:466:ALA:HB3	1.35	0.90
1:G:723:ILE:HG23	1:G:903:MET:CG	2.01	0.90
1:I:359:GLN:HE22	1:I:692:GLY:HA2	1.35	0.90
1:I:943:THR:CG2	1:I:944:PRO:HD3	2.00	0.90
1:K:910:MET:CE	1:K:914:THR:CB	2.40	0.90
4:M:298:LEU:CD1	6:U:57:GLU:OE2	2.20	0.90
1:A:367:TYR:CD2	1:A:565:LYS:HD2	2.07	0.89
1:A:756:VAL:CG2	1:A:763:LYS:CE	2.50	0.89
1:B:45:PHE:HB2	7:1:9:LEU:HB2	1.50	0.89
1:B:390:SER:HB2	1:B:868:ARG:NH2	1.87	0.89
1:B:716:HIS:ND1	1:B:717:THR:HG23	1.87	0.89
1:C:682:ARG:HH22	1:C:910:MET:HB2	1.36	0.89
1:D:222:MET:CE	1:D:307:SER:HA	2.02	0.89
1:E:429:THR:HG22	1:E:429:THR:O	1.71	0.89
1:F:731:TRP:O	1:F:731:TRP:CG	2.24	0.89
1:J:166:ASN:HA	1:J:210:PHE:CE1	2.06	0.89
1:J:593:LEU:HD22	1:J:593:LEU:H	1.37	0.89
1:J:698:TYR:CE1	5:P:46:SER:HA	2.07	0.89
1:J:778:TYR:CE2	1:L:620:PHE:HA	2.07	0.89
1:L:107:LEU:HD12	1:L:607:SER:HA	1.52	0.89
1:A:451:GLN:HB2	1:B:156:THR:O	1.71	0.89
1:A:533:ASN:OD1	1:A:713:TYR:HE2	1.54	0.89
1:A:534:PRO:HD2	1:A:713:TYR:CG	2.06	0.89
1:A:560:ILE:HG22	1:A:561:GLN:N	1.84	0.89
1:B:450:ASN:ND2	1:C:154:THR:O	2.05	0.89
1:C:115:PRO:O	1:C:323:TYR:CE1	2.25	0.89
1:E:81:LYS:HB2	1:E:584:ASN:ND2	1.87	0.89
1:E:295:THR:HG23	1:E:318:PRO:HA	1.53	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:495:PRO:HB2	5:R:85:SER:O	1.70	0.89
1:H:155:LYS:HZ2	1:H:215:ALA:HB3	0.92	0.89
1:J:191:LYS:O	1:J:191:LYS:CG	2.20	0.89
1:J:572:LEU:CD2	1:J:643:PHE:HE2	1.79	0.89
1:J:770:MET:CE	1:J:774:TYR:HE1	1.85	0.89
1:J:943:THR:HB	1:J:944:PRO:CD	1.98	0.89
1:K:33:ARG:HD3	7:8:12:ARG:CB	2.01	0.89
1:L:495:PRO:HG2	1:L:503:TYR:HB2	1.54	0.89
2:N:100:PHE:HE2	2:N:483:ILE:CD1	1.85	0.89
2:N:206:ARG:NH2	2:N:451:GLN:O	2.05	0.89
6:U:183:ILE:HG12	6:U:187:GLN:HB3	1.54	0.89
7:9:9:LEU:C	7:9:11:PRO:HD3	1.93	0.89
1:A:237:GLY:HA2	1:B:817:VAL:HG12	1.52	0.89
1:A:446:ILE:CG1	1:A:447:SER:N	2.34	0.89
1:B:334:MET:CB	1:B:336:TYR:CE1	2.55	0.89
1:B:687:GLU:HG2	1:B:701:TYR:CG	2.06	0.89
1:B:808:GLU:OE2	1:B:814:TYR:CE2	2.25	0.89
1:D:423:TYR:HE2	1:E:263:VAL:CG2	1.85	0.89
1:G:276:GLU:C	1:I:440:TRP:CH2	2.46	0.89
1:G:276:GLU:CB	1:I:440:TRP:CZ2	2.55	0.89
1:H:46:ARG:HH11	1:H:46:ARG:CG	1.83	0.89
1:H:722:SER:O	1:H:903:MET:CB	2.20	0.89
1:I:173:LEU:HD12	1:I:185:LYS:HZ2	1.06	0.89
1:I:803:ARG:HH11	1:I:803:ARG:CG	1.84	0.89
1:J:162:THR:CG2	1:J:193:PHE:CE2	2.54	0.89
1:J:681:THR:CG2	1:J:682:ARG:H	1.83	0.89
1:K:46:ARG:HE	1:L:644:ASN:HD22	1.14	0.89
1:K:70:PRO:HG2	1:K:73:ARG:HE	1.37	0.89
1:K:448:ARG:HG2	1:K:448:ARG:NH1	1.79	0.89
1:A:172:LEU:HB3	1:A:186:ASP:OD2	1.71	0.89
1:B:811:TYR:CE1	1:B:857:PRO:HD2	2.07	0.89
1:C:66:LEU:CD1	1:C:619:PHE:HE1	1.85	0.89
1:E:630:LEU:O	1:E:630:LEU:HD12	1.73	0.89
1:F:20:ALA:O	7:4:9:LEU:CD1	2.20	0.89
1:H:913:PRO:CB	5:P:8:PHE:CB	2.34	0.89
1:J:664:PRO:HG3	5:Q:19:THR:HG23	1.54	0.89
1:K:885:LEU:HD12	1:K:923:PHE:CE2	2.08	0.89
1:L:665:ILE:HD13	1:L:918:LEU:HD22	1.54	0.89
2:N:144:VAL:HG12	2:N:145:VAL:N	1.84	0.89
2:N:172:MET:HG3	2:N:435:ARG:HH22	1.37	0.89
5:S:8:PHE:HD2	5:S:9:GLU:H	1.19	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:V:183:ILE:HB	6:V:187:GLN:CG	2.02	0.89
1:B:46:ARG:HH22	1:C:925:VAL:HG12	1.37	0.89
1:B:335:TYR:CE2	1:B:341:ASN:OD1	2.26	0.89
1:D:428:ILE:HD11	1:E:169:ASN:HB3	1.51	0.89
1:D:941:LEU:CD2	1:F:13:MET:HG3	2.03	0.89
1:E:138:LYS:HD3	1:E:149:GLN:HB2	1.53	0.89
1:E:494:LEU:HD21	1:E:506:GLY:HA3	1.54	0.89
1:J:202:GLU:HB2	1:K:313:VAL:HG21	1.51	0.89
1:J:278:LYS:HZ3	1:L:428:ILE:HG22	1.28	0.89
1:K:46:ARG:NE	1:L:644:ASN:HD22	1.70	0.89
1:L:720:LYS:HD3	1:L:742:GLU:OE2	1.72	0.89
1:L:831:TYR:HB2	1:L:838:GLN:HE21	1.38	0.89
1:C:83:ARG:HH12	1:J:69:VAL:CG1	1.85	0.89
1:C:747:ARG:NH2	1:C:754:TYR:CD1	2.40	0.89
1:D:260:TYR:CE2	1:D:282:ILE:CG2	2.56	0.89
1:E:441:GLU:HA	1:E:446:ILE:HG22	1.52	0.89
1:F:320:ARG:HH11	1:F:597:LEU:CD1	1.84	0.89
1:G:157:PHE:HE2	1:I:415:ASN:ND2	1.70	0.89
1:H:71:VAL:CG1	1:H:71:VAL:CG2	2.51	0.89
1:J:96:MET:CE	1:J:574:LEU:HD11	2.01	0.89
1:J:322:ASN:HB2	1:J:597:LEU:HB2	1.55	0.89
1:K:36:ASP:OD1	1:K:36:ASP:C	2.11	0.89
1:K:893:LEU:HA	6:U:189:VAL:HG21	1.55	0.89
5:Q:16:TYR:CD2	5:R:18:THR:HG23	2.06	0.89
7:8:17:PRO:HG2	7:8:22:TRP:CE3	2.08	0.89
7:8:17:PRO:CD	7:8:22:TRP:O	2.21	0.89
1:A:187:ILE:HB	1:A:190:ASP:OD1	1.73	0.89
1:B:695:PHE:HB3	2:N:72:GLN:NE2	1.88	0.89
1:E:77:THR:CB	5:P:76:ARG:NH2	2.31	0.89
1:E:77:THR:HB	5:P:76:ARG:NH2	1.86	0.89
1:E:180:ALA:HB3	1:E:182:ASN:CG	1.93	0.89
1:F:214:ARG:HH12	1:F:241:LYS:HE3	1.35	0.89
1:F:916:LEU:HD22	1:F:917:TYR:H	1.38	0.89
1:I:35:THR:CG2	7:6:24:GLU:OE1	2.20	0.89
1:J:495:PRO:HG2	1:J:500:THR:HG21	1.53	0.89
1:L:713:TYR:HA	1:L:867:ASP:HB2	1.53	0.89
2:N:420:ALA:HB1	2:N:463:THR:HG21	1.53	0.89
4:M:162:PHE:CE1	4:M:237:ILE:HD13	2.06	0.89
1:B:391:TYR:CD1	1:B:391:TYR:O	2.26	0.89
1:B:533:ASN:CG	1:B:536:ASN:ND2	2.27	0.89
1:B:942:ARG:NH2	2:N:95:THR:HG21	1.86	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:641:GLN:H	1:E:641:GLN:HE21	1.17	0.89
1:F:267:SER:OG	1:F:277:TYR:CZ	2.26	0.89
1:I:260:TYR:HD2	1:I:282:ILE:CG2	1.82	0.89
1:I:663:VAL:HG12	1:I:663:VAL:O	1.73	0.89
1:I:731:TRP:O	1:I:733:GLY:N	2.05	0.89
1:B:336:TYR:C	1:B:337:ASN:HD22	1.76	0.89
1:D:56:VAL:HG21	1:F:38:TYR:CE1	2.08	0.89
1:D:199:VAL:O	1:D:200:GLY:C	2.06	0.89
1:D:297:VAL:CG1	1:D:297:VAL:CG2	2.51	0.89
1:E:682:ARG:NH2	1:E:910:MET:CE	2.36	0.89
1:F:370:LEU:HD23	1:F:570:LYS:HZ1	1.06	0.89
1:F:558:PHE:O	1:F:558:PHE:CG	2.26	0.89
1:F:730:SER:C	1:F:732:PRO:CD	2.41	0.89
1:G:746:LYS:O	1:G:746:LYS:HG3	1.72	0.89
1:G:753:GLY:O	1:G:763:LYS:HE3	1.71	0.89
1:I:139:GLU:HB2	1:I:152:ASP:OD2	1.71	0.89
1:L:107:LEU:CD1	1:L:607:SER:HB2	2.03	0.89
5:P:35:THR:HG21	5:P:40:PRO:HA	1.53	0.89
1:A:821:PHE:HB3	1:C:237:GLY:HA3	1.53	0.89
1:B:362:ASN:HD21	1:B:365:LEU:HB3	1.38	0.89
1:B:368:GLN:HE22	1:B:377:ARG:HH12	0.90	0.89
1:B:381:PHE:CE1	1:C:795:PHE:CE1	2.61	0.89
1:C:479:LEU:HD23	1:C:509:VAL:HG21	1.53	0.89
1:C:572:LEU:HD12	1:C:573:LEU:H	1.37	0.89
1:C:922:VAL:HG22	1:C:923:PHE:H	1.35	0.89
1:D:587:LYS:CB	1:D:610:PHE:HE1	1.87	0.89
1:F:194:GLN:O	1:F:197:PRO:HD2	1.72	0.89
1:G:139:GLU:HG3	1:G:140:LYS:N	1.87	0.89
1:I:399:GLU:CB	1:I:523:ARG:HA	2.02	0.89
1:J:94:LEU:O	1:J:94:LEU:HG	1.70	0.89
1:J:135:TRP:NE1	1:J:156:THR:OG1	2.04	0.89
1:K:277:TYR:CE1	1:K:279:ALA:CB	2.54	0.89
1:L:20:ALA:CA	1:L:23:TYR:HE2	1.78	0.89
1:L:249:GLU:CG	1:L:250:GLN:H	1.86	0.89
1:L:291:GLU:O	1:L:291:GLU:HG3	1.71	0.89
1:L:361:ARG:HB2	1:L:361:ARG:HH11	1.38	0.89
1:A:244:PRO:CD	1:A:253:ASP:O	2.21	0.88
1:A:457:VAL:O	1:C:837:ARG:NH1	2.06	0.88
1:A:774:TYR:HB2	1:A:776:ILE:HG12	1.55	0.88
1:B:66:LEU:HG	1:B:619:PHE:CE1	2.07	0.88
1:D:928:VAL:HA	1:D:937:GLU:O	1.72	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:455:GLY:O	1:F:161:ALA:HB2	1.71	0.88
1:F:950:ALA:HB3	1:H:893:LEU:CB	2.03	0.88
1:G:451:GLN:C	1:G:452:ILE:HG13	1.93	0.88
1:G:732:PRO:O	1:G:734:ASN:N	2.06	0.88
1:H:222:MET:HG2	1:H:307:SER:CB	2.03	0.88
1:H:235:GLU:HB2	1:I:816:ALA:O	1.71	0.88
1:I:398:ILE:HD12	1:I:398:ILE:C	1.93	0.88
1:I:892:MET:CA	1:I:895:ALA:HB3	2.02	0.88
1:J:231:ARG:O	1:J:240:ALA:HB2	1.73	0.88
1:J:721:VAL:CG1	1:J:905:PHE:CD1	2.55	0.88
1:J:853:GLN:HA	1:L:554:ARG:NH1	1.88	0.88
2:N:230:HIS:HE1	2:N:376:PRO:CD	1.76	0.88
2:N:237:PRO:HG3	2:N:350:LEU:HD23	1.53	0.88
4:M:185:TYR:HD2	4:M:201:GLN:HB2	1.38	0.88
1:B:929:HIS:HB2	1:B:937:GLU:HG3	1.55	0.88
1:F:136:GLU:OE1	1:F:151:LYS:N	2.06	0.88
1:F:151:LYS:O	1:F:154:THR:N	2.04	0.88
1:G:575:LEU:HB3	1:G:576:PRO:HD2	1.53	0.88
1:G:886:THR:CG2	1:G:889:GLY:HA3	2.03	0.88
1:H:819:LEU:HA	1:H:822:GLN:NE2	1.88	0.88
1:J:540:ASN:ND2	1:J:543:LEU:HB2	1.89	0.88
1:J:573:LEU:HD13	1:J:634:LEU:CD1	2.01	0.88
1:J:639:HIS:HD2	1:L:28:LEU:HD22	1.35	0.88
5:P:12:LEU:CD1	5:P:17:LEU:HD21	2.00	0.88
7:8:17:PRO:O	7:8:18:PHE:CD2	2.26	0.88
1:A:235:GLU:HB3	1:B:815:LYS:HB3	1.56	0.88
1:B:5:SER:HA	6:U:185:THR:HB	1.53	0.88
1:B:162:THR:HG22	1:B:163:GLY:N	1.88	0.88
1:B:449:GLN:HE21	1:B:450:ASN:ND2	1.70	0.88
1:B:486:LYS:HG2	1:B:509:VAL:HG13	1.55	0.88
1:B:644:ASN:H	1:B:644:ASN:ND2	1.69	0.88
1:B:835:THR:HG22	1:B:836:MET:N	1.85	0.88
1:C:93:VAL:HG21	1:C:630:LEU:HD12	1.54	0.88
1:C:530:ASP:OD1	1:C:865:LEU:HD11	1.73	0.88
1:C:567:PHE:CE1	1:C:926:VAL:HG11	2.07	0.88
1:F:21:SER:HB3	7:4:11:PRO:CG	2.03	0.88
1:F:241:LYS:CD	1:F:256:ILE:CG1	2.37	0.88
1:G:443:ASP:CB	1:H:150:GLU:HG2	2.02	0.88
1:I:188:TYR:HB2	1:I:256:ILE:CD1	2.03	0.88
1:I:560:ILE:HD12	1:I:562:VAL:HG23	1.51	0.88
1:I:731:TRP:C	1:I:733:GLY:H	1.74	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:741:ASN:OD1	1:K:741:ASN:O	1.92	0.88
1:L:463:ASN:O	1:L:467:ASN:HB2	1.73	0.88
4:M:18:PRO:HG3	4:M:22:ALA:HB2	1.54	0.88
7:9:9:LEU:O	7:9:11:PRO:HD2	1.73	0.88
1:A:204:TRP:NE1	1:A:415:ASN:HB2	1.89	0.88
1:A:756:VAL:CG2	1:A:763:LYS:HE3	2.03	0.88
1:B:196:GLU:CG	1:B:197:PRO:CD	2.52	0.88
1:C:684:LYS:HE3	1:C:912:GLU:HB2	1.56	0.88
1:D:265:GLY:C	1:D:276:GLU:HB3	1.93	0.88
1:F:151:LYS:HG2	1:F:154:THR:HG1	1.04	0.88
1:F:348:GLN:HB2	1:F:580:THR:HB	1.53	0.88
1:F:866:CYS:SG	1:F:869:VAL:HG13	2.11	0.88
1:G:192:THR:HG21	1:G:214:ARG:HH21	1.38	0.88
1:K:552:ASN:HD22	1:L:522:ALA:HB2	1.37	0.88
2:N:122:ASN:HA	2:N:165:GLU:HB2	1.56	0.88
2:N:441:THR:HG22	2:N:443:VAL:H	1.35	0.88
3:O:18:GLY:O	3:O:19:TYR:CG	2.27	0.88
1:B:670:ARG:HH21	1:B:945:PHE:HE2	0.89	0.88
1:C:88:VAL:CG1	1:C:88:VAL:O	2.20	0.88
1:C:345:LEU:O	1:C:345:LEU:HG	1.73	0.88
1:F:229:PHE:CD2	1:F:229:PHE:C	2.47	0.88
1:F:361:ARG:HB3	1:F:361:ARG:NH1	1.87	0.88
1:F:526:LEU:H	1:F:526:LEU:HD22	1.37	0.88
1:F:656:ILE:HG21	1:F:663:VAL:HG21	1.53	0.88
1:G:738:LEU:HG	1:G:754:TYR:HE2	1.38	0.88
1:H:901:LEU:O	1:H:901:LEU:HG	1.74	0.88
1:I:38:TYR:CZ	7:6:24:GLU:HB2	2.09	0.88
1:K:315:GLN:HE22	1:K:836:MET:CB	1.87	0.88
5:Q:41:VAL:O	5:Q:42:LEU:HD12	0.70	0.88
1:A:395:VAL:HG21	1:A:476:ASN:HB3	1.55	0.88
1:C:514:VAL:HA	1:C:518:ILE:HG21	1.55	0.88
1:C:575:LEU:HD13	1:C:631:GLU:HB2	1.55	0.88
1:D:6:MET:SD	1:D:9:GLN:HB3	2.13	0.88
1:D:423:TYR:HE2	1:E:263:VAL:HG22	1.33	0.88
1:F:267:SER:CA	1:F:277:TYR:CE2	2.56	0.88
1:I:504:MET:SD	1:I:597:LEU:HD21	2.14	0.88
1:J:151:LYS:HA	1:J:154:THR:OG1	1.72	0.88
1:J:412:PHE:CZ	1:L:828:PHE:HB3	2.09	0.88
1:K:440:TRP:O	1:K:440:TRP:CG	2.26	0.88
1:L:510:ALA:HB2	1:L:832:LEU:O	1.73	0.88
1:L:529:MET:HG2	1:L:529:MET:O	1.73	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:202:LYS:HZ2	2:N:453:LEU:C	1.75	0.88
4:M:221:THR:CG2	4:M:222:VAL:H	1.87	0.88
5:Q:35:THR:HA	5:Q:40:PRO:HA	1.52	0.88
1:A:152:ASP:C	1:A:154:THR:H	1.74	0.88
1:A:225:CYS:O	1:A:225:CYS:SG	2.31	0.88
1:A:908:ASP:HB2	1:A:909:PRO:HD2	1.56	0.88
1:B:7:MET:HB2	1:B:8:PRO:HD2	1.54	0.88
1:B:79:LEU:CD2	1:B:335:TYR:HE1	1.79	0.88
1:B:83:ARG:HH21	2:N:400:ARG:CZ	1.85	0.88
1:B:939:VAL:CG2	1:B:949:ASN:O	2.22	0.88
1:C:130:PRO:HB2	1:C:312:LEU:HD11	1.53	0.88
1:D:152:ASP:O	1:D:153:VAL:HB	1.69	0.88
1:D:240:ALA:HB3	1:D:288:VAL:HG23	1.55	0.88
1:D:573:LEU:HB3	1:D:641:GLN:HE22	0.75	0.88
1:F:151:LYS:O	1:F:154:THR:CA	2.20	0.88
1:G:111:PRO:HG3	1:G:554:ARG:NH2	1.87	0.88
1:L:670:ARG:NH2	1:L:945:PHE:C	2.19	0.88
1:L:808:GLU:HG2	1:L:814:TYR:CZ	2.09	0.88
2:N:73:ASN:ND2	2:N:78:PHE:HA	1.88	0.88
6:U:2:SER:HB3	6:U:200:PRO:HD2	1.56	0.88
1:A:611:ASP:OD1	1:A:611:ASP:C	2.10	0.88
1:A:662:ASN:HA	1:A:906:GLU:HA	1.52	0.88
1:C:329:ASN:N	1:C:385:ASN:O	2.07	0.88
1:C:573:LEU:HB3	1:C:641:GLN:NE2	1.87	0.88
1:D:88:VAL:HG22	1:D:88:VAL:O	1.74	0.88
1:E:423:TYR:C	1:E:449:GLN:HG2	1.94	0.88
1:G:444:ASP:HA	1:H:152:ASP:HA	1.55	0.88
1:G:776:ILE:CG2	1:G:776:ILE:CG1	2.50	0.88
1:I:943:THR:HG22	1:I:944:PRO:HD3	1.53	0.88
1:L:324:ILE:HG22	1:L:324:ILE:O	1.73	0.88
2:N:202:LYS:NZ	2:N:454:CYS:O	2.06	0.88
7:5:15:THR:HG22	7:5:16:ARG:N	1.86	0.88
1:A:749:VAL:HG12	1:A:749:VAL:O	1.72	0.88
1:B:81:LYS:HB2	1:B:584:ASN:HD22	1.38	0.88
1:B:324:ILE:CD1	1:B:595:SER:HA	2.03	0.88
1:C:29:VAL:HG23	7:2:9:LEU:CD1	2.03	0.88
1:C:530:ASP:OD2	1:C:865:LEU:CD2	2.21	0.88
1:C:731:TRP:CE2	1:C:875:PHE:CD1	2.61	0.88
1:D:281:ILE:HD11	1:F:452:ILE:HG21	1.55	0.88
1:E:156:THR:CG2	1:E:157:PHE:H	1.85	0.88
1:F:267:SER:CA	1:F:277:TYR:HE2	1.85	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:831:TYR:HB2	1:F:838:GLN:HE22	1.08	0.88
1:G:124:LEU:HB2	1:H:825:ASN:HD21	1.38	0.88
1:H:677:GLY:H	1:H:921:GLU:CB	1.85	0.88
1:I:560:ILE:HD12	1:I:562:VAL:CG2	2.04	0.88
1:J:345:LEU:HD13	1:J:581:TYR:CD1	2.07	0.88
1:J:441:GLU:OE2	1:J:443:ASP:HB2	1.73	0.88
1:K:443:ASP:CB	1:L:150:GLU:HB3	2.02	0.88
1:K:682:ARG:HH21	1:K:914:THR:HG21	1.39	0.88
1:L:489:PRO:HG3	1:L:508:VAL:HG12	1.56	0.88
5:Q:9:GLU:HG2	5:Q:10:GLY:N	1.87	0.88
6:V:205:PRO:HA	6:V:208:TYR:CD1	2.06	0.88
1:A:244:PRO:HG3	1:A:253:ASP:OD2	1.74	0.88
1:A:681:THR:HG22	1:A:682:ARG:N	1.89	0.88
1:D:438:SER:OG	1:E:278:LYS:HG2	1.73	0.88
1:D:681:THR:HG21	1:D:712:PHE:CD1	2.08	0.88
1:E:74:GLU:O	1:E:74:GLU:HG2	1.74	0.88
1:F:286:GLU:O	1:F:286:GLU:OE1	1.91	0.88
1:G:194:GLN:HB2	1:G:197:PRO:HG2	1.53	0.88
1:H:135:TRP:H	1:H:154:THR:HG22	1.36	0.88
1:L:161:ALA:HB3	1:L:198:GLN:HE21	1.38	0.88
1:L:188:TYR:CE1	1:L:256:ILE:CD1	2.40	0.88
1:L:749:VAL:O	1:L:749:VAL:HG13	1.74	0.88
1:L:806:VAL:CG1	1:L:856:VAL:HG21	2.03	0.88
1:L:842:TYR:CD2	1:L:843:PRO:HD2	2.09	0.88
2:N:393:MET:CE	2:N:479:LEU:HD13	2.03	0.88
1:B:242:PHE:HE2	1:B:288:VAL:C	1.76	0.87
1:C:705:ILE:HG22	1:C:708:LEU:H	1.39	0.87
1:D:423:TYR:CE2	1:E:263:VAL:CG2	2.57	0.87
1:D:648:SER:OG	1:D:922:VAL:O	1.91	0.87
1:E:47:ASN:HB2	1:E:48:PRO:HD2	1.56	0.87
1:E:440:TRP:HD1	1:E:441:GLU:HG3	1.37	0.87
1:G:263:VAL:HG22	1:I:423:TYR:CE2	2.09	0.87
1:G:513:LEU:HB2	1:G:819:LEU:CD1	2.03	0.87
1:G:738:LEU:HG	1:G:754:TYR:CE2	2.08	0.87
1:H:700:VAL:CG1	5:Q:34:SER:HB3	2.04	0.87
1:H:878:ASN:O	1:H:879:PHE:HB2	1.73	0.87
1:I:398:ILE:O	1:I:398:ILE:HG13	1.73	0.87
1:L:161:ALA:CB	1:L:198:GLN:CD	2.39	0.87
1:L:804:GLN:O	1:L:850:LEU:HD11	1.74	0.87
1:L:901:LEU:O	1:L:901:LEU:HG	1.73	0.87
1:A:235:GLU:CB	1:B:815:LYS:HB3	2.03	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:831:TYR:CB	1:A:838:GLN:HE21	1.86	0.87
1:F:513:LEU:HD13	1:F:819:LEU:HD22	1.55	0.87
1:F:760:ASN:CB	5:P:54:VAL:CG1	2.40	0.87
1:H:148:GLN:HG3	1:H:150:GLU:OE1	1.73	0.87
1:J:608:VAL:HG12	1:J:609:ARG:CG	2.04	0.87
1:J:664:PRO:HB3	5:Q:19:THR:HG22	1.53	0.87
1:L:135:TRP:CH2	1:L:156:THR:HB	2.08	0.87
4:M:156:GLN:CG	4:M:211:GLY:HA3	2.04	0.87
1:A:426:VAL:HA	1:A:440:TRP:HA	1.55	0.87
1:B:93:VAL:CG1	1:B:575:LEU:CD2	2.51	0.87
1:B:134:GLN:HE22	1:B:285:THR:HG21	1.37	0.87
1:B:298:VAL:HG21	1:B:317:MET:CG	1.97	0.87
1:C:509:VAL:HG23	1:C:509:VAL:O	1.71	0.87
1:D:718:PHE:HB3	1:D:745:ILE:HG13	1.57	0.87
1:F:672:TRP:CZ2	1:F:901:LEU:HD23	2.09	0.87
1:G:256:ILE:H	1:G:256:ILE:HD12	1.37	0.87
1:K:580:THR:O	1:K:580:THR:HG23	1.71	0.87
1:K:863:LYS:HB3	1:K:863:LYS:HZ2	1.36	0.87
1:B:676:ARG:HD3	1:B:921:GLU:HB3	1.54	0.87
1:C:52:PRO:CB	7:1:24:GLU:HB3	2.04	0.87
1:C:229:PHE:O	1:C:229:PHE:HD2	1.49	0.87
1:E:124:LEU:H	1:F:825:ASN:HD21	1.20	0.87
1:E:162:THR:HG22	1:E:163:GLY:N	1.89	0.87
1:E:206:GLU:O	1:E:206:GLU:HG2	0.96	0.87
1:E:345:LEU:CD1	1:E:581:TYR:CD1	2.57	0.87
1:E:443:ASP:O	1:E:444:ASP:OD1	1.91	0.87
1:E:922:VAL:CB	1:E:944:PRO:HD2	2.03	0.87
1:F:657:PRO:HD2	5:R:12:LEU:CD2	2.00	0.87
1:F:756:VAL:HG12	1:F:763:LYS:HA	1.54	0.87
1:G:829:THR:HG22	1:G:830:GLY:N	1.89	0.87
1:H:756:VAL:HG22	1:H:763:LYS:CG	2.03	0.87
1:J:222:MET:HG3	1:J:307:SER:HA	1.54	0.87
1:J:514:VAL:HG23	1:J:518:ILE:CD1	2.04	0.87
1:L:103:ILE:CG2	1:L:610:PHE:CD2	2.57	0.87
4:M:377:ASP:O	4:M:381:ASN:CB	2.19	0.87
1:A:658:ALA:O	1:A:910:MET:O	1.93	0.87
1:B:193:PHE:CZ	1:B:199:VAL:N	2.31	0.87
1:E:172:LEU:CD2	1:E:193:PHE:CZ	2.57	0.87
1:E:203:ASN:HB2	1:F:836:MET:SD	2.15	0.87
1:G:360:ASP:CG	1:G:942:ARG:NH2	2.22	0.87
1:H:269:PRO:HG3	1:H:277:TYR:HD2	1.36	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:R:44:ALA:HB1	5:R:51:TYR:HE1	1.08	0.87
5:S:53:THR:HG23	5:S:53:THR:O	1.71	0.87
1:A:135:TRP:HB2	1:A:307:SER:O	1.75	0.87
1:C:427:LYS:HG2	1:C:428:ILE:N	1.89	0.87
1:E:422:THR:O	1:F:264:PRO:HD3	1.74	0.87
1:E:571:ASN:N	1:E:571:ASN:ND2	2.21	0.87
1:F:862:LYS:O	5:P:54:VAL:CB	2.21	0.87
1:G:55:ASP:O	1:G:623:ALA:HB3	1.74	0.87
1:G:56:VAL:HG13	1:I:38:TYR:CE1	2.09	0.87
1:G:407:LEU:H	1:G:407:LEU:HD12	1.39	0.87
1:G:438:SER:OG	1:H:277:TYR:O	1.92	0.87
1:G:840:GLN:HB2	1:G:841:PRO:HD2	1.56	0.87
1:I:174:LEU:CD1	1:I:191:LYS:HE2	2.04	0.87
1:J:198:GLN:HB2	1:K:839:GLY:CA	2.04	0.87
1:J:433:ASP:OD1	1:J:434:GLY:N	2.08	0.87
1:J:670:ARG:NE	1:J:944:PRO:O	2.07	0.87
1:A:816:ALA:O	1:C:235:GLU:HB2	1.75	0.87
1:B:348:GLN:HE21	1:B:348:GLN:C	1.78	0.87
1:C:96:MET:CE	1:C:574:LEU:HD12	2.05	0.87
1:C:198:GLN:HG3	1:C:199:VAL:N	1.90	0.87
1:C:544:ARG:HH11	1:C:544:ARG:CB	1.88	0.87
1:F:566:PHE:O	1:F:570:LYS:HB2	1.74	0.87
1:F:676:ARG:HE	1:F:921:GLU:HG3	1.39	0.87
1:F:740:PRO:HG2	1:J:339:THR:HG22	1.54	0.87
1:G:435:ALA:O	1:H:277:TYR:CE1	2.28	0.87
1:I:260:TYR:CE2	1:I:282:ILE:CG2	2.58	0.87
1:I:429:THR:HG22	1:I:430:ASN:H	1.39	0.87
1:K:20:ALA:HB1	7:8:9:LEU:HD13	0.88	0.87
1:K:246:ASN:ND2	1:K:247:GLU:N	2.23	0.87
1:L:24:LEU:H	1:L:24:LEU:HD12	1.39	0.87
1:L:719:LYS:O	1:L:745:ILE:HG22	1.74	0.87
4:M:385:ASN:OD1	4:M:385:ASN:O	1.90	0.87
5:Q:35:THR:CA	5:Q:43:PRO:CG	2.53	0.87
5:S:33:GLY:HA3	5:S:44:ALA:C	1.94	0.87
6:U:3:LYS:HD3	6:U:3:LYS:H	1.40	0.87
1:A:422:THR:O	1:B:264:PRO:HD3	1.75	0.87
1:B:83:ARG:HB2	1:B:582:GLU:CB	2.02	0.87
1:B:197:PRO:HA	1:C:831:TYR:CD1	2.10	0.87
1:C:103:ILE:CG2	1:C:610:PHE:CD2	2.57	0.87
1:C:724:MET:HG2	1:C:729:VAL:CG1	2.05	0.87
1:D:465:GLN:HA	1:D:465:GLN:OE1	1.73	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:358:LEU:HD21	1:E:947:ALA:HB2	1.55	0.87
1:F:103:ILE:HG13	1:F:613:VAL:CG1	2.05	0.87
1:F:739:THR:HG21	1:F:744:GLU:HB2	1.57	0.87
1:G:515:ASP:OD1	1:G:516:ALA:N	2.08	0.87
1:H:21:SER:HB3	7:5:11:PRO:HG2	1.55	0.87
1:I:449:GLN:O	1:I:449:GLN:HG3	1.74	0.87
1:I:682:ARG:HH21	1:I:907:VAL:HG21	1.40	0.87
1:K:589:VAL:HG23	1:K:593:LEU:HD12	1.56	0.87
1:K:635:ARG:O	1:K:930:GLN:O	1.93	0.87
5:R:8:PHE:HE2	5:R:9:GLU:HB2	1.14	0.87
1:A:202:GLU:HB3	1:B:313:VAL:HG11	1.57	0.87
1:B:368:GLN:NE2	1:B:377:ARG:CZ	2.38	0.87
1:B:600:ASP:OD1	1:B:700:VAL:HG13	1.75	0.87
1:C:436:GLU:O	1:C:436:GLU:HG3	1.75	0.87
1:D:446:ILE:HG22	1:D:446:ILE:O	1.72	0.87
1:D:623:ALA:HB3	1:D:626:THR:HG22	1.57	0.87
1:G:20:ALA:HA	1:G:23:TYR:CE2	2.10	0.87
1:G:707:TYR:HE1	1:G:917:TYR:HE1	0.94	0.87
1:H:204:TRP:CD1	1:H:415:ASN:OD1	2.28	0.87
1:H:424:GLN:O	1:I:261:PHE:HA	1.75	0.87
1:H:747:ARG:CB	1:H:762:THR:HG23	2.04	0.87
1:J:655:PRO:HB3	5:R:8:PHE:HZ	1.39	0.87
1:K:658:ALA:HB2	1:K:913:PRO:HD3	1.31	0.87
1:K:949:ASN:H	1:K:949:ASN:ND2	1.70	0.87
1:L:572:LEU:CD1	1:L:641:GLN:OE1	2.22	0.87
4:M:149:PRO:HG2	4:M:207:ARG:NH2	1.89	0.87
7:5:21:THR:HG22	7:5:21:THR:O	1.73	0.87
1:A:681:THR:CG2	1:A:682:ARG:H	1.83	0.86
1:B:831:TYR:H	1:B:838:GLN:HE21	1.19	0.86
1:C:241:LYS:HE2	1:C:256:ILE:CD1	1.90	0.86
1:D:198:GLN:CD	1:E:838:GLN:CA	2.42	0.86
1:E:163:GLY:N	1:E:199:VAL:CG2	2.38	0.86
1:E:514:VAL:HG22	1:E:514:VAL:O	1.74	0.86
1:F:135:TRP:CH2	1:F:153:VAL:CG1	2.58	0.86
1:F:243:LYS:N	1:F:243:LYS:HD3	1.89	0.86
1:F:837:ARG:O	1:F:837:ARG:CG	2.16	0.86
1:G:319:ASN:N	1:G:319:ASN:HD22	1.72	0.86
1:G:482:PRO:HD3	1:G:529:MET:HB3	1.57	0.86
1:H:572:LEU:HG	1:H:573:LEU:N	1.90	0.86
1:J:199:VAL:CG1	1:J:200:GLY:H	1.88	0.86
6:U:10:MET:HE3	6:U:10:MET:HA	1.54	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:267:SER:H	1:A:268:PRO:HD2	1.40	0.86
1:B:46:ARG:NH2	1:C:925:VAL:HG12	1.88	0.86
1:B:159:VAL:O	1:C:840:GLN:HG3	1.76	0.86
1:B:303:THR:HG22	1:B:303:THR:O	1.72	0.86
1:B:731:TRP:CE3	1:B:732:PRO:CD	2.55	0.86
1:D:60:ARG:NH2	1:D:624:HIS:HB2	1.89	0.86
1:E:774:TYR:CG	1:E:774:TYR:CA	2.58	0.86
1:F:219:ASP:OD2	1:F:219:ASP:C	2.06	0.86
1:F:558:PHE:CD1	1:F:558:PHE:C	2.47	0.86
1:G:263:VAL:HG22	1:I:423:TYR:HE2	1.40	0.86
1:H:134:GLN:HG2	1:H:154:THR:O	1.74	0.86
1:I:651:ASN:N	1:I:651:ASN:OD1	2.07	0.86
1:J:150:GLU:OE2	1:L:443:ASP:OD2	1.92	0.86
1:K:135:TRP:CH2	1:K:309:GLU:HB2	2.10	0.86
1:K:441:GLU:HA	1:K:441:GLU:OE1	1.74	0.86
4:M:149:PRO:HG2	4:M:207:ARG:HH21	1.40	0.86
5:P:127:GLU:O	5:P:131:GLN:HG2	1.75	0.86
6:U:23:ALA:CB	6:U:212:PHE:CD2	2.50	0.86
6:U:169:LEU:HD12	7:1:30:LEU:HA	0.89	0.86
8:X:1:UNK:HA	8:Y:1:UNK:CB	2.04	0.86
1:B:79:LEU:HD22	1:B:335:TYR:CZ	2.08	0.86
1:B:196:GLU:HG2	1:B:197:PRO:CD	2.03	0.86
1:B:334:MET:CB	1:B:336:TYR:HE1	1.88	0.86
1:B:831:TYR:N	1:B:838:GLN:HE21	1.71	0.86
1:C:811:TYR:CD1	1:C:857:PRO:HD2	2.09	0.86
1:D:428:ILE:HD12	1:E:169:ASN:HB3	1.54	0.86
1:F:45:PHE:CD2	7:4:9:LEU:HD22	2.09	0.86
1:F:267:SER:HB3	1:F:268:PRO:HD2	1.56	0.86
1:I:193:PHE:CZ	1:I:284:TYR:HE1	1.89	0.86
1:I:510:ALA:HA	1:I:832:LEU:O	1.74	0.86
5:Q:36:VAL:CG2	5:Q:43:PRO:CB	2.30	0.86
1:B:28:LEU:HD22	1:C:639:HIS:HD2	1.40	0.86
1:B:775:ASN:HB3	1:B:880:MET:CE	2.05	0.86
1:C:192:THR:HG23	1:C:193:PHE:HD1	1.40	0.86
1:E:571:ASN:HD22	1:E:571:ASN:H	1.23	0.86
1:E:731:TRP:H	1:E:732:PRO:HD2	0.70	0.86
1:F:165:ILE:O	1:F:210:PHE:HE1	1.56	0.86
1:F:679:SER:HB3	1:F:870:MET:HE2	1.55	0.86
1:F:831:TYR:HD2	1:F:832:LEU:HB2	1.40	0.86
1:G:356:VAL:HB	1:G:940:TYR:CE1	2.10	0.86
1:I:425:GLY:HA3	1:I:444:ASP:HB3	1.56	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:196:GLU:CG	1:K:197:PRO:HD3	2.03	0.86
1:A:135:TRP:CH2	1:A:309:GLU:HB2	2.10	0.86
1:A:377:ARG:HG3	1:A:388:VAL:HG11	1.58	0.86
1:B:242:PHE:CE2	1:B:288:VAL:N	2.44	0.86
1:B:351:GLN:HE22	2:N:400:ARG:HE	1.21	0.86
1:C:746:LYS:O	1:C:746:LYS:CG	2.24	0.86
1:D:155:LYS:HE2	1:D:285:THR:HG21	1.56	0.86
1:F:88:VAL:HG13	1:F:577:GLY:H	1.41	0.86
1:F:864:PHE:O	1:F:864:PHE:CG	2.28	0.86
1:G:923:PHE:O	1:G:925:VAL:HG13	1.74	0.86
1:K:498:THR:HG23	1:K:503:TYR:CE2	2.10	0.86
1:L:103:ILE:CG2	1:L:610:PHE:HD2	1.88	0.86
1:L:134:GLN:OE1	1:L:154:THR:HG21	1.74	0.86
1:L:155:LYS:HG3	1:L:261:PHE:HZ	1.41	0.86
1:A:439:GLU:O	1:A:440:TRP:HD1	1.56	0.86
1:B:46:ARG:HH22	1:C:925:VAL:CG1	1.88	0.86
1:B:46:ARG:CD	1:C:644:ASN:ND2	2.37	0.86
1:B:57:THR:HG21	1:C:877:SER:CB	2.04	0.86
1:C:533:ASN:C	1:C:533:ASN:HD22	1.79	0.86
1:C:809:ILE:HD12	1:C:810:ASN:HB2	1.57	0.86
1:C:827:GLY:HA2	1:C:839:GLY:CA	2.05	0.86
1:F:740:PRO:HB2	1:J:339:THR:HG22	1.54	0.86
1:G:775:ASN:OD1	1:G:880:MET:SD	2.33	0.86
1:H:61:SER:CB	1:I:734:ASN:ND2	2.39	0.86
1:H:161:ALA:O	1:H:198:GLN:HB3	1.74	0.86
1:I:323:TYR:O	1:I:324:ILE:HG13	1.75	0.86
1:I:419:THR:CG2	1:I:451:GLN:HB2	2.06	0.86
1:J:278:LYS:HG3	1:J:279:ALA:N	1.90	0.86
1:K:724:MET:CE	1:K:730:SER:N	2.38	0.86
7:1:18:PHE:HD1	7:1:22:TRP:HE3	1.17	0.86
1:B:83:ARG:NH2	2:N:400:ARG:CZ	2.38	0.86
1:B:155:LYS:HD2	1:B:261:PHE:HE1	1.36	0.86
1:B:239:GLN:HE21	1:B:240:ALA:H	0.88	0.86
1:B:242:PHE:CE2	1:B:288:VAL:C	2.49	0.86
1:B:635:ARG:HH12	1:B:933:ARG:N	1.69	0.86
1:E:13:MET:SD	1:F:941:LEU:HD23	2.16	0.86
1:E:478:ALA:HA	1:E:514:VAL:HG11	1.55	0.86
1:H:92:ARG:CG	1:H:92:ARG:NH1	2.32	0.86
1:H:194:GLN:HG2	1:H:196:GLU:OE1	1.74	0.86
1:H:323:TYR:O	1:H:595:SER:CB	2.22	0.86
1:H:351:GLN:H	1:H:351:GLN:HE21	0.87	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:603:VAL:HA	5:Q:40:PRO:CG	2.06	0.86
1:I:64:LEU:HD11	1:I:621:PRO:HG3	1.58	0.86
1:I:243:LYS:HB3	1:I:244:PRO:HD2	1.58	0.86
1:I:508:VAL:HG22	1:I:508:VAL:O	1.74	0.86
1:J:66:LEU:HD12	1:J:66:LEU:H	1.39	0.86
1:J:124:LEU:HB2	1:K:825:ASN:HD21	1.41	0.86
1:J:663:VAL:HA	5:P:12:LEU:HD23	0.87	0.86
1:J:845:ASN:HB3	1:L:239:GLN:HE22	1.41	0.86
1:K:744:GLU:O	1:K:765:TRP:HB2	1.73	0.86
4:M:65:THR:HG22	4:M:66:ASN:H	1.38	0.86
5:Q:9:GLU:HG3	5:Q:10:GLY:H	1.39	0.86
5:Q:12:LEU:HD11	5:Q:15:PRO:HG3	1.54	0.86
5:S:8:PHE:HD2	5:S:9:GLU:HB3	1.33	0.86
1:A:41:LEU:HD23	1:A:41:LEU:H	1.41	0.86
1:A:905:PHE:CD1	1:A:916:LEU:HD21	2.11	0.86
1:B:139:GLU:HG3	1:B:152:ASP:CB	2.05	0.86
1:B:752:GLU:O	1:B:754:TYR:CD1	2.29	0.86
1:C:66:LEU:CD1	1:C:619:PHE:CE1	2.58	0.86
1:C:103:ILE:HG21	1:C:610:PHE:CE2	2.10	0.86
1:C:533:ASN:C	1:C:533:ASN:ND2	2.29	0.86
1:C:752:GLU:OE2	1:C:754:TYR:HD1	1.55	0.86
1:D:153:VAL:HG12	1:D:153:VAL:O	1.73	0.86
1:F:593:LEU:HB2	1:F:601:LEU:CD1	2.05	0.86
1:F:808:GLU:HG3	1:F:814:TYR:CZ	2.10	0.86
1:H:940:TYR:H	1:H:940:TYR:HD1	1.21	0.86
1:K:137:THR:OG1	1:K:153:VAL:HG23	1.73	0.86
1:L:137:THR:CG2	1:L:138:LYS:H	1.88	0.86
5:P:42:LEU:O	5:P:42:LEU:HD23	1.75	0.86
5:R:8:PHE:HD2	5:R:9:GLU:CA	1.86	0.86
1:B:440:TRP:CH2	1:B:446:ILE:HD13	2.09	0.86
1:B:682:ARG:HH22	1:B:910:MET:HB3	0.70	0.86
1:C:704:SER:O	1:C:706:PRO:HD3	1.75	0.86
1:D:198:GLN:NE2	1:E:838:GLN:CA	2.38	0.86
1:F:396:ARG:NH1	1:F:867:ASP:OD1	2.09	0.86
1:F:398:ILE:O	1:F:398:ILE:HG12	1.75	0.86
1:G:546:ARG:HH11	1:G:546:ARG:CG	1.89	0.86
1:J:20:ALA:HA	1:J:23:TYR:CE2	2.09	0.86
1:J:161:ALA:HB1	1:J:199:VAL:HG23	1.57	0.86
1:J:191:LYS:HB2	1:J:194:GLN:NE2	1.90	0.86
1:J:727:SER:CA	5:Q:20:ARG:HH22	1.85	0.86
1:J:762:THR:HG22	1:J:765:TRP:HB3	1.58	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:453:CYS:HB3	1:L:159:VAL:HG22	1.56	0.86
7:4:17:PRO:HG2	7:4:22:TRP:NE1	1.91	0.86
7:4:19:MET:O	7:4:21:THR:N	2.09	0.86
1:A:3:THR:HG1	1:A:4:PRO:HD3	1.38	0.86
1:A:198:GLN:HB3	1:B:839:GLY:N	1.91	0.86
1:A:398:ILE:HD11	1:A:477:VAL:HG21	1.58	0.86
1:C:567:PHE:CE1	1:C:926:VAL:CG1	2.59	0.86
1:C:922:VAL:HG22	1:C:923:PHE:N	1.90	0.86
1:E:948:GLY:C	6:U:105:GLY:HA2	1.96	0.86
1:F:214:ARG:HH12	1:F:241:LYS:CE	1.88	0.86
1:G:730:SER:OG	1:G:732:PRO:HD2	1.73	0.86
1:K:135:TRP:N	1:K:135:TRP:CD1	2.43	0.86
5:Q:45:ASN:H	5:Q:45:ASN:ND2	1.71	0.86
5:R:34:SER:HA	5:R:43:PRO:CD	2.05	0.86
1:A:262:ASP:O	1:C:423:TYR:CB	2.24	0.85
1:B:241:LYS:HD3	1:B:286:GLU:OE1	1.75	0.85
1:B:398:ILE:HD11	1:B:477:VAL:CG2	2.00	0.85
1:B:533:ASN:HD21	1:B:536:ASN:HD21	1.21	0.85
1:C:357:ASP:OD1	1:C:566:PHE:HE1	1.50	0.85
1:C:790:ARG:HB3	1:C:790:ARG:NH1	1.90	0.85
1:E:428:ILE:CG2	1:F:169:ASN:HD21	1.68	0.85
1:E:774:TYR:CG	1:E:774:TYR:N	2.44	0.85
1:G:438:SER:HB2	1:H:277:TYR:O	1.76	0.85
1:H:722:SER:O	1:H:903:MET:HB2	1.74	0.85
1:K:662:ASN:HA	1:K:906:GLU:HA	1.57	0.85
1:L:659:LYS:HB2	1:L:659:LYS:NZ	1.91	0.85
7:9:9:LEU:C	7:9:11:PRO:CD	2.44	0.85
1:A:893:LEU:HD22	1:C:10:TRP:CZ3	2.11	0.85
1:B:135:TRP:CZ2	1:B:309:GLU:HB2	2.11	0.85
1:B:315:GLN:NE2	1:B:836:MET:HE3	1.90	0.85
1:C:244:PRO:HD3	1:C:253:ASP:O	1.76	0.85
1:C:361:ARG:HH11	1:C:567:PHE:HE2	1.21	0.85
1:D:202:GLU:OE1	1:D:206:GLU:OE2	1.93	0.85
1:E:25:SER:HB3	1:F:639:HIS:CE1	2.11	0.85
1:E:162:THR:OG1	1:E:193:PHE:CD2	2.27	0.85
1:E:410:TYR:HE2	1:F:414:LEU:HD21	1.39	0.85
1:E:452:ILE:HG22	1:F:159:VAL:N	1.89	0.85
1:E:896:ASN:OD1	1:E:896:ASN:C	2.15	0.85
1:F:67:ARG:O	1:F:67:ARG:CG	2.18	0.85
1:F:513:LEU:HD13	1:F:819:LEU:CD2	2.06	0.85
1:F:682:ARG:CZ	1:F:907:VAL:HG11	2.06	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:837:ARG:HH21	1:H:456:ASN:HB2	1.39	0.85
1:H:94:LEU:HD13	1:H:619:PHE:HE1	1.35	0.85
1:I:198:GLN:O	1:I:200:GLY:N	2.08	0.85
1:I:260:TYR:CD2	1:I:282:ILE:HG23	2.09	0.85
1:I:419:THR:HG21	1:I:451:GLN:HB2	1.57	0.85
1:I:831:TYR:CB	1:I:838:GLN:HE22	1.88	0.85
1:J:166:ASN:HB3	1:J:173:LEU:HD23	1.57	0.85
1:J:249:GLU:HG3	1:J:250:GLN:HG2	1.58	0.85
1:J:925:VAL:HG11	1:L:46:ARG:HH22	1.35	0.85
1:K:440:TRP:N	1:K:440:TRP:CE3	2.44	0.85
1:L:323:TYR:HB2	1:L:596:SER:HB3	1.56	0.85
1:L:477:VAL:CG1	1:L:478:ALA:H	1.88	0.85
1:L:675:PHE:HA	1:L:944:PRO:HG2	1.58	0.85
6:V:62:THR:HG21	6:V:190:GLU:HB3	1.57	0.85
1:A:204:TRP:HE3	1:B:313:VAL:HG13	1.08	0.85
1:A:877:SER:HB3	1:C:57:THR:CG2	2.06	0.85
1:B:131:ASN:HB2	1:B:132:PRO:CD	2.05	0.85
1:C:17:GLY:O	7:1:19:MET:O	1.92	0.85
1:D:6:MET:CE	1:D:9:GLN:HB3	2.07	0.85
1:E:543:LEU:O	1:E:543:LEU:CD1	2.22	0.85
1:F:676:ARG:HE	1:F:921:GLU:CG	1.89	0.85
1:G:276:GLU:HB3	1:I:440:TRP:CE2	2.10	0.85
1:H:46:ARG:HG3	1:H:46:ARG:NH1	1.74	0.85
1:H:445:ALA:CB	1:H:449:GLN:HA	2.04	0.85
1:K:409:ASN:HD22	1:K:409:ASN:N	1.66	0.85
1:L:398:ILE:HD12	1:L:399:GLU:N	1.92	0.85
4:M:176:SER:OG	4:M:191:ARG:C	2.14	0.85
5:S:33:GLY:HA3	5:S:43:PRO:O	1.76	0.85
1:B:372:ASP:O	1:B:375:GLY:O	1.94	0.85
1:C:267:SER:OG	1:C:268:PRO:HD3	1.74	0.85
1:C:327:ARG:NH1	1:C:705:ILE:HD12	1.90	0.85
1:D:181:GLU:HG2	1:D:181:GLU:O	1.73	0.85
1:D:462:ILE:HG12	1:D:463:ASN:H	1.40	0.85
1:D:866:CYS:SG	1:D:869:VAL:HG11	2.16	0.85
1:E:162:THR:HG23	1:E:163:GLY:H	1.40	0.85
1:H:659:LYS:HB2	1:H:659:LYS:HZ2	0.72	0.85
1:J:18:GLN:HA	1:J:18:GLN:HE21	1.39	0.85
6:U:215:ASN:HB2	6:U:223:VAL:HG13	1.55	0.85
1:B:83:ARG:HA	1:B:582:GLU:HA	1.58	0.85
1:B:531:ASN:O	1:B:713:TYR:HE1	1.58	0.85
1:C:687:GLU:HB2	1:C:701:TYR:CE2	2.11	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:427:LYS:CG	1:D:441:GLU:CG	2.51	0.85
1:D:752:GLU:O	1:D:752:GLU:HG3	1.77	0.85
1:E:155:LYS:CE	1:E:261:PHE:CZ	2.58	0.85
1:E:172:LEU:CD2	1:E:193:PHE:CE2	2.60	0.85
1:I:258:PHE:HE2	1:I:284:TYR:HE2	0.89	0.85
1:J:674:ALA:HB2	1:L:10:TRP:CZ2	2.12	0.85
1:K:594:GLN:O	1:K:594:GLN:HG3	1.76	0.85
4:M:177:GLU:C	4:M:178:VAL:CG2	2.41	0.85
1:B:242:PHE:CZ	1:B:287:ASN:CB	2.56	0.85
1:C:198:GLN:HG3	1:C:199:VAL:H	1.41	0.85
1:C:422:THR:CA	1:C:450:ASN:O	2.20	0.85
1:D:635:ARG:HH11	1:D:635:ARG:HG3	1.41	0.85
1:G:358:LEU:HD22	1:G:942:ARG:HH11	1.41	0.85
1:G:449:GLN:HG3	1:H:153:VAL:HG22	1.58	0.85
1:I:173:LEU:HB2	1:I:185:LYS:NZ	1.92	0.85
1:J:836:MET:HE2	1:L:203:ASN:HA	1.53	0.85
1:K:244:PRO:O	1:K:246:ASN:N	2.10	0.85
5:S:42:LEU:N	5:S:43:PRO:HD3	1.91	0.85
1:A:267:SER:H	1:A:268:PRO:CD	1.89	0.85
1:A:427:LYS:HG3	1:A:441:GLU:OE1	1.75	0.85
1:B:670:ARG:NH2	2:N:92:GLU:CD	2.29	0.85
1:C:747:ARG:NH2	1:C:754:TYR:CB	2.37	0.85
1:C:802:SER:CB	1:C:861:GLN:O	2.24	0.85
1:D:481:LEU:HD23	1:D:529:MET:HG2	1.56	0.85
1:F:536:ASN:CB	1:F:596:SER:O	2.21	0.85
1:F:641:GLN:HE21	1:F:641:GLN:N	1.73	0.85
1:G:18:GLN:HG2	1:G:23:TYR:HB3	1.59	0.85
1:I:229:PHE:O	1:I:229:PHE:CD2	2.29	0.85
1:J:623:ALA:HB3	1:J:626:THR:CG2	2.06	0.85
1:J:926:VAL:HG13	1:J:940:TYR:HD2	1.39	0.85
1:L:270:ALA:HB2	1:L:277:TYR:CB	2.07	0.85
1:L:630:LEU:O	1:L:634:LEU:HB2	1.76	0.85
2:N:144:VAL:CG1	2:N:145:VAL:H	1.88	0.85
1:B:155:LYS:CD	1:B:261:PHE:CE1	2.60	0.85
1:C:250:GLN:CG	1:C:251:PRO:HD2	2.06	0.85
1:D:524:TRP:HA	1:D:524:TRP:CE3	2.09	0.85
1:E:246:ASN:HD21	1:E:249:GLU:HB2	1.39	0.85
1:F:870:MET:O	1:F:872:ARG:HG2	1.76	0.85
1:G:443:ASP:HB3	1:H:150:GLU:CB	2.04	0.85
1:H:134:GLN:HA	1:H:154:THR:C	1.96	0.85
1:H:352:LEU:O	6:V:110:GLY:HA3	1.75	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:574:LEU:HA	1:H:930:GLN:HE22	1.42	0.85
1:H:828:PHE:CZ	1:H:841:PRO:HG3	2.11	0.85
1:J:199:VAL:HG12	1:J:200:GLY:N	1.91	0.85
1:A:159:VAL:HG11	1:B:840:GLN:HB2	1.57	0.85
1:A:493:LYS:HG2	1:A:494:LEU:H	1.41	0.85
1:B:942:ARG:NH2	2:N:95:THR:CG2	2.38	0.85
1:C:139:GLU:HB3	1:C:152:ASP:OD2	1.77	0.85
1:C:734:ASN:O	1:C:736:ARG:HG2	1.73	0.85
1:D:449:GLN:HB3	1:E:153:VAL:HA	1.59	0.85
1:E:28:LEU:HD13	1:F:633:MET:CE	2.06	0.85
1:E:75:ALA:HB2	1:E:80:TYR:CD1	2.12	0.85
1:E:204:TRP:HZ3	1:F:313:VAL:CG1	1.89	0.85
1:E:282:ILE:HG12	1:E:283:LEU:N	1.90	0.85
1:E:806:VAL:HG22	1:E:856:VAL:HG21	1.58	0.85
1:F:300:LYS:HG2	1:F:301:PRO:HD2	1.59	0.85
1:F:804:GLN:O	1:F:850:LEU:HD11	1.77	0.85
1:F:807:ASP:OD1	1:F:808:GLU:N	2.10	0.85
1:H:480:TYR:OH	1:H:538:PRO:HD3	1.77	0.85
1:J:103:ILE:HD13	1:J:610:PHE:CD2	2.10	0.85
1:J:438:SER:CB	1:K:278:LYS:HB2	2.06	0.85
1:K:161:ALA:C	1:K:198:GLN:CG	2.33	0.85
1:L:114:LYS:O	1:L:322:ASN:O	1.94	0.85
1:L:310:ILE:CG1	1:L:310:ILE:CG2	2.54	0.85
1:B:653:LEU:HG	1:B:915:LEU:HD13	0.91	0.85
1:D:667:ILE:HD13	1:D:901:LEU:HD23	1.58	0.85
1:D:804:GLN:NE2	1:F:551:GLY:CA	2.39	0.85
1:G:878:ASN:H	1:G:878:ASN:ND2	1.74	0.85
1:I:69:VAL:HG23	1:I:70:PRO:HD2	1.57	0.85
1:I:529:MET:O	1:I:529:MET:HG2	1.74	0.85
1:L:52:PRO:HG3	7:8:23:ASN:HD22	1.41	0.85
1:L:463:ASN:O	1:L:467:ASN:CB	2.25	0.85
1:L:651:ASN:ND2	1:L:917:TYR:OH	2.08	0.85
7:5:15:THR:CG2	7:5:16:ARG:N	2.39	0.85
1:A:681:THR:HG23	1:A:682:ARG:N	1.84	0.84
1:B:19:ASP:HB2	1:B:47:ASN:CB	2.06	0.84
1:C:55:ASP:O	1:C:623:ALA:CB	2.24	0.84
1:E:575:LEU:N	1:E:575:LEU:HD22	1.92	0.84
1:F:689:PRO:HA	1:F:699:PHE:CD1	2.12	0.84
1:G:263:VAL:HG13	1:G:264:PRO:HD2	1.59	0.84
1:H:106:VAL:HG13	5:S:59:LEU:HD21	1.55	0.84
1:I:135:TRP:NE1	1:I:156:THR:OG1	2.10	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:425:GLY:HA3	1:I:444:ASP:CB	2.07	0.84
1:I:644:ASN:H	1:I:644:ASN:ND2	1.75	0.84
1:J:294:ASP:O	1:J:319:ASN:CG	2.16	0.84
1:J:636:ASN:HD21	1:J:638:THR:H	1.18	0.84
1:J:682:ARG:NH1	1:J:910:MET:CE	2.39	0.84
1:J:738:LEU:O	1:L:63:ARG:NH2	2.10	0.84
1:J:911:ASP:OD1	1:J:911:ASP:N	2.10	0.84
1:L:310:ILE:CG1	1:L:310:ILE:CA	2.54	0.84
1:L:417:THR:HG22	1:L:418:GLY:N	1.91	0.84
7:7:9:LEU:HD12	7:7:10:ALA:H	1.41	0.84
1:B:69:VAL:HG22	1:B:70:PRO:HD2	1.59	0.84
1:B:589:VAL:HB	1:B:607:SER:HB3	1.60	0.84
1:D:747:ARG:CZ	1:D:752:GLU:OE2	2.25	0.84
1:E:135:TRP:HE1	1:E:156:THR:CG2	1.90	0.84
1:F:94:LEU:CD1	1:F:617:ALA:HB1	2.07	0.84
1:F:811:TYR:HD2	1:F:814:TYR:HB2	1.39	0.84
1:G:194:GLN:HB3	1:G:197:PRO:HD2	1.59	0.84
1:H:235:GLU:HB3	1:I:815:LYS:CB	2.05	0.84
1:I:135:TRP:CE2	1:I:309:GLU:HB3	2.12	0.84
1:I:653:LEU:HD23	1:I:917:TYR:HD2	1.42	0.84
1:J:682:ARG:NH1	1:J:910:MET:HE2	1.92	0.84
5:Q:53:THR:HG22	5:Q:53:THR:O	1.77	0.84
7:8:9:LEU:O	7:8:11:PRO:HD3	1.77	0.84
1:B:328:ASP:HB2	1:B:546:ARG:NH1	1.91	0.84
1:C:241:LYS:NZ	1:C:256:ILE:CG1	2.40	0.84
1:C:250:GLN:HE21	1:C:251:PRO:CG	1.90	0.84
1:C:892:MET:HE2	1:C:892:MET:HA	1.58	0.84
1:D:198:GLN:CD	1:E:838:GLN:HB2	1.97	0.84
1:D:752:GLU:O	1:D:752:GLU:CG	2.24	0.84
1:E:135:TRP:CH2	1:E:309:GLU:CG	2.59	0.84
1:G:543:LEU:HA	1:G:546:ARG:NH1	1.90	0.84
1:H:19:ASP:HB2	1:H:47:ASN:HB2	1.59	0.84
1:H:912:GLU:HB2	1:H:913:PRO:HD2	1.58	0.84
1:K:26:PRO:O	1:K:29:VAL:HG12	1.77	0.84
1:L:38:TYR:OH	7:9:24:GLU:HB2	1.76	0.84
2:N:44:TYR:CE1	2:N:83:VAL:HG21	2.12	0.84
4:M:223:SER:O	4:M:223:SER:OG	1.87	0.84
1:B:769:GLN:CG	1:B:794:PHE:CE1	2.60	0.84
1:C:21:SER:OG	7:2:11:PRO:HG2	1.77	0.84
1:C:121:TYR:HB2	1:C:227:GLY:HA2	1.59	0.84
1:D:682:ARG:CZ	1:D:910:MET:SD	2.64	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:774:TYR:CB	1:E:774:TYR:CD1	2.58	0.84
1:F:526:LEU:HD22	1:F:526:LEU:N	1.93	0.84
1:H:71:VAL:CG1	1:H:71:VAL:CA	2.54	0.84
1:J:262:ASP:OD1	1:J:263:VAL:O	1.96	0.84
1:J:536:ASN:HB3	1:J:596:SER:O	1.76	0.84
1:J:754:TYR:O	1:J:763:LYS:HB2	1.76	0.84
2:N:292:VAL:HG22	2:N:326:VAL:HG21	1.56	0.84
6:V:201:PHE:HD2	6:V:208:TYR:HD2	0.91	0.84
1:C:330:PHE:CZ	1:C:385:ASN:OD1	2.29	0.84
1:C:642:SER:HB3	1:C:927:ARG:HB2	1.60	0.84
1:C:720:LYS:NZ	1:C:742:GLU:OE2	2.09	0.84
1:D:449:GLN:CB	1:E:153:VAL:HA	2.07	0.84
1:G:730:SER:O	1:G:733:GLY:N	2.09	0.84
1:H:440:TRP:O	1:H:440:TRP:CD1	2.31	0.84
1:J:134:GLN:HB2	1:J:155:LYS:HD2	1.59	0.84
1:J:155:LYS:NZ	1:J:285:THR:HB	1.92	0.84
1:J:333:LEU:HD12	1:J:592:ILE:CG2	2.07	0.84
1:K:20:ALA:HA	1:K:23:TYR:CE2	2.13	0.84
1:K:658:ALA:HB1	1:K:913:PRO:HD3	1.60	0.84
4:M:169:MET:HG2	4:M:240:PHE:CD1	2.13	0.84
6:U:71:PRO:C	6:U:73:ASN:H	1.75	0.84
6:V:223:VAL:CG1	6:V:224:ASP:H	1.90	0.84
7:6:24:GLU:O	7:6:24:GLU:CD	2.14	0.84
1:A:269:PRO:HA	1:A:274:GLY:O	1.77	0.84
1:B:329:ASN:HD21	1:B:386:SER:HB2	1.42	0.84
1:B:415:ASN:HD21	1:B:418:GLY:CA	1.91	0.84
1:D:427:LYS:HG3	1:D:439:GLU:HB2	1.57	0.84
1:E:101:PHE:HZ	1:E:581:TYR:HE2	1.23	0.84
1:E:152:ASP:C	1:E:154:THR:H	1.79	0.84
1:F:664:PRO:HB2	5:P:18:THR:HG21	1.57	0.84
1:J:523:ARG:O	1:J:523:ARG:HG3	1.77	0.84
1:J:839:GLY:HA2	1:L:198:GLN:CG	2.07	0.84
1:A:200:GLY:O	1:A:206:GLU:OE1	1.94	0.84
1:A:310:ILE:HA	1:C:205:GLN:HE22	1.41	0.84
1:B:188:TYR:O	1:B:256:ILE:HD13	1.75	0.84
1:B:435:ALA:CB	1:C:270:ALA:CB	2.54	0.84
1:C:52:PRO:HB3	7:1:24:GLU:HB3	1.58	0.84
1:D:281:ILE:HD11	1:F:452:ILE:CG2	2.07	0.84
1:D:453:CYS:HB3	1:E:159:VAL:HG22	1.60	0.84
1:E:28:LEU:HD13	1:F:633:MET:HE3	1.58	0.84
1:E:719:LYS:HE3	1:E:908:ASP:OD1	1.78	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:603:VAL:HA	5:R:40:PRO:CB	2.08	0.84
1:G:445:ALA:HB2	1:G:449:GLN:CG	2.08	0.84
1:I:203:ASN:HB3	1:I:204:TRP:CD1	2.12	0.84
1:J:714:LEU:HD12	1:J:714:LEU:C	1.95	0.84
1:K:75:ALA:HB2	1:K:80:TYR:CE1	2.12	0.84
1:L:371:LEU:HD12	1:L:377:ARG:NE	1.91	0.84
4:M:198:ASN:HA	6:U:199:ASN:ND2	1.92	0.84
5:R:39:ARG:CG	5:R:41:VAL:HG23	2.08	0.84
1:A:838:GLN:HB2	1:C:198:GLN:CG	2.06	0.84
1:B:620:PHE:CE1	1:C:880:MET:CE	2.60	0.84
1:B:808:GLU:HG2	1:B:814:TYR:CD2	2.13	0.84
1:D:198:GLN:NE2	1:E:838:GLN:CB	2.41	0.84
1:E:234:ASN:HD22	1:E:236:LYS:HB3	1.42	0.84
1:H:533:ASN:HD21	1:H:535:PHE:HB2	1.43	0.84
1:K:205:GLN:NE2	1:K:205:GLN:HA	1.93	0.84
1:L:798:PHE:CD2	1:L:798:PHE:O	2.30	0.84
5:P:66:ALA:O	5:P:70:ALA:CB	2.25	0.84
5:R:82:MET:O	5:R:82:MET:HG2	1.77	0.84
6:V:69:LEU:CD2	6:V:69:LEU:N	2.23	0.84
1:A:533:ASN:CB	1:A:713:TYR:CE2	2.61	0.84
1:B:339:THR:HG23	1:B:342:MET:HE1	1.59	0.84
1:C:486:LYS:HG2	1:C:509:VAL:HG12	1.59	0.84
1:E:65:THR:CG2	1:F:738:LEU:CD1	2.51	0.84
1:E:77:THR:HA	5:P:76:ARG:HH21	1.24	0.84
1:F:759:CYS:SG	1:F:864:PHE:HB3	2.17	0.84
1:I:575:LEU:HB3	1:I:576:PRO:HD2	1.59	0.84
1:I:656:ILE:HG22	1:I:663:VAL:HG22	1.60	0.84
1:I:908:ASP:OD1	1:I:908:ASP:N	2.10	0.84
1:K:131:ASN:N	1:K:131:ASN:HD22	1.72	0.84
1:L:667:ILE:HD11	1:L:920:PHE:HZ	1.16	0.84
1:L:837:ARG:O	1:L:837:ARG:CG	2.25	0.84
1:A:455:GLY:O	1:A:456:ASN:O	1.94	0.84
1:B:116:TYR:CB	1:C:520:ILE:CG2	2.56	0.84
1:B:327:ARG:NH2	1:B:705:ILE:CD1	2.41	0.84
1:C:167:ILE:HD12	1:C:280:ASP:OD2	1.76	0.84
1:C:489:PRO:HG2	1:C:492:VAL:HG21	1.58	0.84
1:C:527:ASP:N	1:C:528:PRO:HD2	1.93	0.84
1:D:110:GLY:HA3	1:D:604:ASP:HB3	1.59	0.84
1:F:463:ASN:HD21	1:F:466:ALA:CB	1.90	0.84
1:F:731:TRP:C	1:F:733:GLY:H	1.80	0.84
1:G:196:GLU:HG3	1:H:831:TYR:CE1	2.13	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:356:VAL:CB	1:G:940:TYR:CE1	2.61	0.84
1:H:24:LEU:HD11	7:5:9:LEU:HD22	1.59	0.84
1:J:201:GLU:OE1	1:K:299:TYR:CZ	2.31	0.84
1:K:73:ARG:NH2	1:K:612:SER:HB2	1.92	0.84
1:K:819:LEU:N	1:K:820:PRO:CD	2.41	0.84
1:K:824:ASN:HA	1:K:844:ALA:CB	2.05	0.84
1:C:831:TYR:HB3	1:C:838:GLN:HE22	1.42	0.83
1:E:19:ASP:O	1:E:47:ASN:HB3	1.77	0.83
1:F:38:TYR:OH	7:4:24:GLU:HB2	1.78	0.83
1:F:136:GLU:OE2	1:F:218:LYS:CE	2.26	0.83
1:F:370:LEU:CD2	1:F:570:LYS:HZ1	1.78	0.83
1:G:13:MET:SD	1:H:941:LEU:HB2	2.18	0.83
1:H:82:ALA:CB	1:H:613:VAL:HG21	2.06	0.83
1:H:670:ARG:NH2	1:H:945:PHE:HA	1.93	0.83
1:K:240:ALA:O	1:K:288:VAL:CG1	2.18	0.83
1:K:377:ARG:HH11	1:K:388:VAL:HB	1.41	0.83
1:L:327:ARG:HG2	1:L:592:ILE:O	1.78	0.83
1:L:773:HIS:CD2	1:L:794:PHE:CB	2.61	0.83
5:R:2:ASN:OD1	5:R:6:GLY:HA2	1.78	0.83
5:S:8:PHE:CD2	5:S:9:GLU:CB	2.60	0.83
5:S:14:SER:HB3	5:S:15:PRO:HD3	1.59	0.83
1:A:438:SER:CB	1:B:278:LYS:HD2	2.07	0.83
1:E:174:LEU:HD21	1:E:186:ASP:OD2	1.77	0.83
1:E:235:GLU:HB3	1:F:816:ALA:H	1.44	0.83
1:E:422:THR:O	1:F:264:PRO:HG3	1.78	0.83
1:E:474:TYR:CA	1:E:478:ALA:HB3	2.08	0.83
1:E:587:LYS:HG3	1:E:610:PHE:HE1	1.43	0.83
1:E:685:THR:HG22	1:E:913:PRO:O	1.77	0.83
1:F:324:ILE:HG12	1:F:595:SER:HB2	1.61	0.83
1:G:246:ASN:O	1:G:247:GLU:O	1.96	0.83
1:G:364:GLU:HA	1:G:364:GLU:OE1	1.76	0.83
1:G:426:VAL:HG12	1:G:439:GLU:O	1.77	0.83
1:G:649:ALA:CB	1:G:919:LEU:CD1	2.56	0.83
1:I:260:TYR:CD2	1:I:282:ILE:HG22	2.13	0.83
1:K:59:ASP:OD1	1:K:60:ARG:N	2.11	0.83
1:L:943:THR:HG23	6:V:16:GLN:HE22	1.41	0.83
6:U:13:TYR:CD1	6:U:188:PHE:CG	2.66	0.83
1:B:81:LYS:NZ	2:N:404:GLN:HB3	1.94	0.83
1:C:831:TYR:HB2	1:C:838:GLN:NE2	1.86	0.83
1:C:905:PHE:CZ	1:C:918:LEU:HD13	2.13	0.83
1:E:49:THR:HB	1:F:884:ALA:H	1.42	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:180:ALA:CB	1:E:182:ASN:CG	2.46	0.83
1:E:444:ASP:HB3	1:E:449:GLN:NE2	1.90	0.83
1:G:162:THR:CB	1:G:193:PHE:CD1	2.60	0.83
1:H:191:LYS:C	1:H:193:PHE:H	1.78	0.83
1:H:650:ALA:HB1	1:H:942:ARG:CZ	2.08	0.83
1:H:692:GLY:HA3	5:Q:23:GLY:O	1.78	0.83
1:I:448:ARG:HG3	1:I:449:GLN:HG2	1.57	0.83
1:J:201:GLU:CD	1:J:201:GLU:H	1.80	0.83
1:K:199:VAL:HG12	1:K:199:VAL:O	1.78	0.83
1:L:7:MET:HG2	1:L:8:PRO:HD3	0.84	0.83
1:L:429:THR:HG22	1:L:430:ASN:N	1.91	0.83
1:L:906:GLU:O	1:L:906:GLU:CG	2.19	0.83
2:N:115:HIS:ND1	2:N:469:PRO:HG3	1.93	0.83
4:M:169:MET:HG2	4:M:240:PHE:HD1	1.43	0.83
7:2:16:ARG:HH12	7:2:21:THR:CG2	1.89	0.83
1:A:172:LEU:CB	1:A:186:ASP:OD2	2.26	0.83
1:A:277:TYR:HE1	1:A:279:ALA:HA	1.40	0.83
1:B:19:ASP:CB	1:B:47:ASN:HB2	2.07	0.83
1:B:480:TYR:OH	1:B:538:PRO:HD3	1.78	0.83
1:C:243:LYS:CD	1:C:243:LYS:N	2.38	0.83
1:D:20:ALA:H	1:D:47:ASN:HB3	1.42	0.83
1:D:661:THR:O	1:D:907:VAL:O	1.94	0.83
1:D:731:TRP:CG	1:D:732:PRO:CD	2.60	0.83
1:F:666:SER:HA	1:F:902:ASP:HB3	1.61	0.83
1:G:141:GLN:CB	1:I:446:ILE:CD1	2.57	0.83
1:H:134:GLN:HG2	1:H:154:THR:C	1.99	0.83
1:H:798:PHE:CD2	1:H:800:PRO:HD3	2.13	0.83
1:I:415:ASN:OD1	1:I:417:THR:O	1.95	0.83
1:I:417:THR:HG22	1:I:457:VAL:HG13	1.58	0.83
1:J:97:ALA:HB3	1:K:779:GLN:O	1.76	0.83
1:J:114:LYS:NZ	1:J:116:TYR:O	2.11	0.83
1:J:233:THR:O	1:K:815:LYS:CD	2.26	0.83
1:J:595:SER:HB3	1:J:702:SER:OG	1.78	0.83
1:J:662:ASN:O	1:J:664:PRO:HD3	1.78	0.83
1:J:732:PRO:HG3	1:J:743:PHE:CE1	2.13	0.83
1:J:877:SER:OG	1:L:57:THR:HG21	1.79	0.83
1:K:90:ASP:O	1:K:91:ASN:CB	2.25	0.83
1:K:410:TYR:HE2	1:L:414:LEU:HD21	1.44	0.83
1:L:362:ASN:HD21	1:L:365:LEU:HB3	1.43	0.83
2:N:334:ASP:HB2	2:N:449:ASP:OD2	1.77	0.83
4:M:18:PRO:CG	4:M:22:ALA:HB2	2.08	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Q:32:MET:SD	5:Q:45:ASN:HA	2.18	0.83
1:A:444:ASP:CA	1:B:152:ASP:HA	2.08	0.83
1:B:651:ASN:CB	1:B:919:LEU:HD23	2.09	0.83
1:C:262:ASP:OD1	1:C:279:ALA:HB3	1.77	0.83
1:D:246:ASN:ND2	1:D:251:PRO:HA	1.92	0.83
1:F:33:ARG:HD2	7:4:12:ARG:HB3	1.59	0.83
1:F:72:ASP:O	1:F:72:ASP:CG	2.16	0.83
1:F:103:ILE:CG1	1:F:613:VAL:CG1	2.56	0.83
1:F:151:LYS:HG2	1:F:154:THR:CB	2.09	0.83
1:F:452:ILE:O	1:F:454:LYS:N	2.10	0.83
1:G:337:ASN:HA	1:G:357:ASP:OD2	1.78	0.83
1:I:138:LYS:HD3	1:I:149:GLN:CB	2.08	0.83
1:I:246:ASN:CG	1:I:247:GLU:H	1.82	0.83
1:I:362:ASN:HD21	1:I:365:LEU:HB3	1.42	0.83
1:I:517:TYR:O	1:I:520:ILE:HG12	1.79	0.83
1:I:929:HIS:HD2	1:I:931:PRO:CD	1.90	0.83
1:K:202:GLU:HG2	1:L:313:VAL:HG11	1.61	0.83
1:B:668:PRO:HG2	2:N:88:PHE:CD2	2.12	0.83
1:E:575:LEU:HD22	1:E:575:LEU:H	1.43	0.83
1:E:641:GLN:H	1:E:641:GLN:NE2	1.75	0.83
1:F:135:TRP:HH2	1:F:153:VAL:HG11	1.41	0.83
1:F:217:LYS:CG	1:F:218:LYS:N	2.28	0.83
1:F:866:CYS:SG	1:F:866:CYS:O	2.37	0.83
1:H:200:GLY:O	1:I:836:MET:HE2	1.78	0.83
1:H:732:PRO:HG3	1:H:743:PHE:CE1	2.14	0.83
2:N:121:VAL:HG13	2:N:127:THR:O	1.79	0.83
7:5:16:ARG:NH1	7:5:21:THR:HG23	1.93	0.83
1:A:379:ARG:NH1	1:B:796:ARG:HH11	1.77	0.83
1:E:735:ASP:O	1:E:735:ASP:OD1	1.96	0.83
1:F:138:LYS:HA	1:F:149:GLN:HB3	1.59	0.83
1:G:88:VAL:HG13	1:G:577:GLY:H	1.43	0.83
1:H:315:GLN:NE2	1:H:836:MET:HB3	1.93	0.83
1:H:775:ASN:HD22	1:H:880:MET:CE	1.92	0.83
1:H:805:VAL:O	1:H:858:SER:HB2	1.79	0.83
1:H:872:ARG:HH22	7:7:3:ASP:HA	1.42	0.83
1:J:117:SER:HB3	1:K:402:GLY:O	1.79	0.83
1:J:572:LEU:HD23	1:J:643:PHE:CZ	2.14	0.83
1:J:752:GLU:O	1:J:754:TYR:HD1	1.61	0.83
1:J:806:VAL:CG2	1:J:856:VAL:HG21	2.08	0.83
1:K:36:ASP:OD1	1:K:36:ASP:O	1.97	0.83
1:A:256:ILE:HD11	1:A:284:TYR:CD2	2.14	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:116:TYR:HB2	1:C:402:GLY:CA	2.09	0.83
1:B:131:ASN:CG	1:B:225:CYS:HB2	1.98	0.83
1:B:428:ILE:HG22	1:B:429:THR:O	1.79	0.83
1:D:139:GLU:HG3	1:D:140:LYS:H	1.42	0.83
1:E:64:LEU:HB2	1:F:736:ARG:O	1.78	0.83
1:E:77:THR:C	5:P:76:ARG:NH2	2.32	0.83
1:E:824:ASN:HA	1:E:844:ALA:HB1	1.58	0.83
1:F:267:SER:N	1:F:277:TYR:HE2	1.72	0.83
1:G:36:ASP:O	1:G:36:ASP:OD1	1.97	0.83
1:H:106:VAL:HG11	5:S:59:LEU:HD21	1.60	0.83
1:H:511:PRO:CD	1:H:832:LEU:O	2.25	0.83
1:I:630:LEU:O	1:I:630:LEU:HD23	1.79	0.83
1:K:163:GLY:O	1:K:174:LEU:CD2	2.27	0.83
1:L:113:PHE:CZ	1:L:115:PRO:HD3	2.14	0.83
2:N:202:LYS:NZ	2:N:453:LEU:C	2.32	0.83
7:1:21:THR:O	7:1:21:THR:CG2	2.26	0.83
1:C:192:THR:HG21	1:C:214:ARG:HH11	1.43	0.83
1:C:242:PHE:O	1:C:255:ASP:HB2	1.77	0.83
1:D:804:GLN:OE1	1:F:556:VAL:HG12	1.76	0.83
1:E:152:ASP:O	1:E:154:THR:N	2.11	0.83
1:F:714:LEU:HD11	1:F:910:MET:CE	2.09	0.83
1:G:169:ASN:HB2	1:I:428:ILE:CD1	2.08	0.83
1:H:21:SER:N	7:5:9:LEU:HD11	1.94	0.83
1:H:738:LEU:HB3	1:H:754:TYR:CE2	2.12	0.83
1:J:195:PRO:O	1:K:839:GLY:HA2	1.79	0.83
1:L:525:SER:N	1:L:801:MET:HE3	1.89	0.83
1:L:644:ASN:HB3	1:L:925:VAL:HG12	1.61	0.83
2:N:186:LEU:HD11	2:N:190:ARG:NH1	1.94	0.83
4:M:180:GLN:C	4:M:182:GLY:H	1.79	0.83
5:P:33:GLY:HA3	5:P:44:ALA:CB	2.09	0.83
5:R:9:GLU:HB3	5:R:13:PHE:CG	2.12	0.83
1:B:135:TRP:HB2	1:B:307:SER:O	1.78	0.83
1:B:196:GLU:HG3	1:B:197:PRO:HD3	1.59	0.83
1:B:831:TYR:HB3	1:B:838:GLN:NE2	1.93	0.83
1:D:195:PRO:HG2	1:E:823:HIS:CD2	2.13	0.83
1:D:443:ASP:OD1	1:E:150:GLU:HG3	1.78	0.83
1:D:921:GLU:O	1:D:922:VAL:CG1	2.26	0.83
1:E:922:VAL:HG12	1:E:944:PRO:CB	2.09	0.83
1:F:656:ILE:HD11	1:F:682:ARG:HH21	1.41	0.83
1:F:831:TYR:CD2	1:F:832:LEU:HB2	2.14	0.83
1:H:424:GLN:HA	1:H:449:GLN:HG2	1.61	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:831:TYR:CE2	1:H:832:LEU:HD12	2.13	0.83
1:I:103:ILE:HG21	1:I:610:PHE:HD2	1.44	0.83
1:K:46:ARG:HE	1:L:644:ASN:ND2	1.76	0.83
1:K:658:ALA:HB2	1:K:913:PRO:CG	2.08	0.83
1:L:58:THR:O	1:L:58:THR:HG23	1.78	0.83
2:N:134:VAL:HG12	2:N:135:MET:H	1.43	0.83
4:M:298:LEU:HD12	6:U:57:GLU:OE2	1.77	0.83
5:Q:12:LEU:CD1	5:Q:15:PRO:HG3	2.08	0.83
1:B:408:PRO:O	1:B:410:TYR:CD1	2.32	0.82
1:B:533:ASN:ND2	1:B:536:ASN:ND2	2.24	0.82
1:B:670:ARG:HD3	2:N:88:PHE:HE2	1.44	0.82
1:E:19:ASP:HA	1:E:48:PRO:HD2	1.61	0.82
1:E:319:ASN:ND2	1:E:319:ASN:N	2.25	0.82
1:E:682:ARG:CZ	1:E:910:MET:HE3	2.05	0.82
1:F:394:ASP:O	1:F:394:ASP:CG	2.17	0.82
1:G:104:ARG:HH12	1:H:753:GLY:N	1.76	0.82
1:H:358:LEU:CD1	1:H:947:ALA:HB2	2.09	0.82
1:J:276:GLU:HB2	1:L:440:TRP:CE3	2.14	0.82
1:J:277:TYR:CB	1:J:277:TYR:CG	0.78	0.82
1:K:670:ARG:HB3	6:U:27:TYR:CZ	2.13	0.82
1:K:756:VAL:CG1	1:K:763:LYS:HA	2.04	0.82
1:L:465:GLN:HA	1:L:465:GLN:OE1	1.79	0.82
1:L:750:ASP:OD2	1:L:755:ASN:ND2	2.11	0.82
2:N:254:ILE:HG23	2:N:354:TRP:CZ2	2.14	0.82
1:A:380:TYR:HD2	1:A:387:ALA:HB1	1.43	0.82
1:B:93:VAL:HG11	1:B:575:LEU:HD23	1.58	0.82
1:C:300:LYS:CG	1:C:301:PRO:HD2	2.09	0.82
1:D:844:ALA:O	1:F:229:PHE:HA	1.79	0.82
1:E:344:VAL:HG23	1:E:353:ASN:HB2	1.59	0.82
1:E:649:ALA:HB1	1:E:919:LEU:HD12	1.59	0.82
1:H:243:LYS:HG3	1:H:253:ASP:O	1.77	0.82
1:H:729:VAL:CG1	1:H:730:SER:H	1.92	0.82
1:J:427:LYS:CB	1:J:441:GLU:HB3	2.09	0.82
5:Q:35:THR:HG22	5:Q:40:PRO:N	1.94	0.82
1:A:649:ALA:HB1	1:A:920:PHE:O	1.79	0.82
1:B:13:MET:HG3	1:C:925:VAL:CG2	2.08	0.82
1:B:134:GLN:HG2	1:B:154:THR:O	1.78	0.82
1:C:738:LEU:HB3	1:C:754:TYR:HE2	1.44	0.82
1:D:265:GLY:O	1:D:266:GLY:O	1.97	0.82
1:D:929:HIS:HB3	1:D:937:GLU:CB	2.08	0.82
1:F:46:ARG:HH11	1:F:46:ARG:CB	1.92	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:518:ILE:O	1:F:518:ILE:HD12	1.79	0.82
1:G:409:ASN:HD21	1:G:464:LEU:CB	1.92	0.82
1:H:243:LYS:HD2	1:H:243:LYS:H	1.44	0.82
1:I:309:GLU:OE2	1:I:310:ILE:HG12	1.79	0.82
1:I:653:LEU:CD2	1:I:917:TYR:HD2	1.93	0.82
1:J:56:VAL:HG22	7:9:24:GLU:HG2	1.59	0.82
1:J:508:VAL:HG23	1:J:834:PRO:HD2	1.60	0.82
1:J:803:ARG:HH11	1:J:803:ARG:CB	1.90	0.82
1:K:178:GLU:CG	1:K:179:THR:N	2.36	0.82
1:K:762:THR:HB	1:K:764:ASP:OD2	1.78	0.82
1:D:498:THR:HG23	1:D:503:TYR:CE2	2.15	0.82
1:E:449:GLN:HG3	1:E:450:ASN:N	1.93	0.82
1:F:656:ILE:CG2	1:F:663:VAL:HG21	2.09	0.82
1:G:356:VAL:HG11	1:G:940:TYR:CD1	2.13	0.82
1:G:546:ARG:HG3	1:G:546:ARG:NH1	1.86	0.82
1:H:587:LYS:CG	1:H:608:VAL:HG23	2.09	0.82
1:H:663:VAL:HG22	5:Q:17:LEU:HD13	1.60	0.82
1:I:267:SER:CB	1:I:276:GLU:CA	2.47	0.82
1:J:449:GLN:O	1:K:153:VAL:HG13	1.78	0.82
1:K:67:ARG:O	1:K:67:ARG:CG	2.25	0.82
1:K:131:ASN:H	1:K:131:ASN:HD22	1.22	0.82
1:K:937:GLU:OE1	6:U:37:GLY:HA3	1.80	0.82
1:L:267:SER:CA	1:L:277:TYR:CE2	2.61	0.82
1:L:717:THR:O	1:L:907:VAL:CG2	2.23	0.82
6:U:59:ALA:HA	6:U:193:VAL:HG21	1.59	0.82
1:A:342:MET:O	1:A:343:GLY:O	1.98	0.82
1:A:533:ASN:HA	1:A:713:TYR:CD2	2.13	0.82
1:C:191:LYS:HG3	1:C:194:GLN:NE2	1.94	0.82
1:C:246:ASN:HD21	1:C:252:LYS:HG2	1.43	0.82
1:C:428:ILE:O	1:C:437:GLU:HB2	1.78	0.82
1:G:150:GLU:HG3	1:I:443:ASP:HB2	1.62	0.82
1:G:609:ARG:HH11	5:R:66:ALA:HB2	1.42	0.82
1:H:90:ASP:O	1:H:90:ASP:CG	2.17	0.82
1:H:397:ILE:HD12	1:H:523:ARG:HH21	1.44	0.82
1:H:657:PRO:HD2	5:Q:12:LEU:CD2	2.08	0.82
1:I:76:THR:HG22	1:I:77:THR:H	1.44	0.82
1:I:343:GLY:O	1:I:355:VAL:CG1	2.27	0.82
1:J:328:ASP:O	1:J:331:VAL:HG13	1.80	0.82
1:J:809:ILE:CD1	5:Q:42:LEU:HD11	2.09	0.82
1:K:47:ASN:HB2	1:K:48:PRO:HD2	1.62	0.82
1:K:277:TYR:HE1	1:K:279:ALA:HB2	1.07	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:948:GLY:HA2	6:U:32:ASN:HB2	1.58	0.82
2:N:385:VAL:N	2:N:414:GLU:O	2.13	0.82
4:M:199:LEU:HD11	6:U:1:MET:SD	2.19	0.82
5:Q:12:LEU:O	5:Q:15:PRO:CG	2.27	0.82
1:A:193:PHE:CZ	1:A:213:GLY:O	2.31	0.82
1:C:724:MET:HE3	1:C:729:VAL:HG12	1.60	0.82
1:D:445:ALA:HB3	1:D:450:ASN:ND2	1.95	0.82
1:D:575:LEU:HB3	1:D:576:PRO:HD2	1.62	0.82
1:E:543:LEU:C	1:E:543:LEU:CD1	2.43	0.82
1:G:312:LEU:HD23	1:I:204:TRP:CH2	2.15	0.82
1:H:135:TRP:CZ2	1:H:309:GLU:HB2	2.13	0.82
1:H:161:ALA:O	1:H:193:PHE:CZ	2.33	0.82
1:J:313:VAL:HB	1:L:203:ASN:ND2	1.94	0.82
1:K:358:LEU:CD1	1:K:942:ARG:NH2	2.40	0.82
1:L:392:ASP:HB3	1:L:395:VAL:HG22	1.61	0.82
1:L:905:PHE:CD1	1:L:916:LEU:HD21	2.14	0.82
1:A:758:GLN:O	1:A:862:LYS:HE3	1.79	0.82
1:B:734:ASN:HB2	1:B:736:ARG:NE	1.95	0.82
1:C:524:TRP:CE3	1:C:802:SER:HA	2.14	0.82
1:C:527:ASP:OD1	1:C:863:LYS:NZ	2.08	0.82
1:D:524:TRP:HA	1:D:524:TRP:HE3	1.41	0.82
1:F:103:ILE:N	1:F:560:ILE:HD11	1.93	0.82
1:F:135:TRP:CZ2	1:F:309:GLU:HB3	2.13	0.82
1:F:531:ASN:HB2	1:F:714:LEU:HD13	1.62	0.82
1:G:409:ASN:HD21	1:G:464:LEU:HB3	1.42	0.82
1:H:20:ALA:CA	7:5:9:LEU:HD13	2.06	0.82
1:H:662:ASN:HA	1:H:906:GLU:HA	1.62	0.82
1:I:486:LYS:HG2	1:I:509:VAL:CG1	2.09	0.82
1:I:508:VAL:O	1:I:508:VAL:CG2	2.27	0.82
1:I:592:ILE:HG13	1:I:593:LEU:N	1.95	0.82
1:J:417:THR:HG21	1:J:453:CYS:CB	2.08	0.82
1:J:623:ALA:HB3	1:J:626:THR:HG22	1.60	0.82
1:L:184:LYS:O	1:L:184:LYS:HG3	1.79	0.82
1:L:371:LEU:CB	1:L:377:ARG:HH21	1.93	0.82
5:P:14:SER:HG	5:P:15:PRO:HD3	1.43	0.82
1:B:112:SER:HB2	1:B:501:TYR:HB3	1.62	0.82
1:B:277:TYR:CZ	1:B:279:ALA:HB2	2.14	0.82
1:B:939:VAL:HG23	1:B:949:ASN:O	1.79	0.82
1:C:427:LYS:CG	1:C:428:ILE:H	1.93	0.82
1:C:863:LYS:O	1:C:863:LYS:HG3	1.77	0.82
1:C:929:HIS:HD2	1:C:931:PRO:HD3	1.45	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:572:LEU:HD22	1:E:572:LEU:O	1.78	0.82
1:E:948:GLY:O	6:U:105:GLY:HA3	1.80	0.82
1:F:571:ASN:N	1:F:571:ASN:ND2	2.25	0.82
1:G:94:LEU:HD23	1:G:619:PHE:HE1	1.44	0.82
1:G:312:LEU:HD23	1:I:204:TRP:HH2	1.43	0.82
1:H:89:GLY:HA3	1:H:92:ARG:HE	1.44	0.82
1:H:590:ASN:HB2	1:H:602:ARG:HG3	1.59	0.82
1:H:731:TRP:C	1:H:733:GLY:H	1.83	0.82
1:H:930:GLN:HG2	1:H:936:ILE:HG13	1.62	0.82
1:I:656:ILE:CG2	1:I:663:VAL:HG22	2.09	0.82
1:J:162:THR:HG22	1:J:212:GLY:O	1.78	0.82
4:M:162:PHE:HE1	4:M:237:ILE:HD11	1.35	0.82
1:B:63:ARG:HB3	1:B:66:LEU:HD23	1.58	0.82
1:C:60:ARG:HD3	6:U:98:GLU:OE2	1.80	0.82
1:C:315:GLN:OE1	1:C:836:MET:HB3	1.80	0.82
1:C:352:LEU:CD1	1:J:63:ARG:CG	2.58	0.82
1:E:333:LEU:HD23	1:E:562:VAL:HG11	1.61	0.82
1:E:424:GLN:HE21	1:F:264:PRO:HA	1.45	0.82
1:F:657:PRO:CD	5:R:12:LEU:CD2	2.56	0.82
1:G:134:GLN:NE2	1:G:155:LYS:HZ3	1.77	0.82
1:H:360:ASP:HB2	1:H:942:ARG:CZ	2.09	0.82
1:H:650:ALA:CB	1:H:942:ARG:CZ	2.56	0.82
1:I:462:ILE:HG12	1:I:463:ASN:N	1.92	0.82
1:L:600:ASP:OD1	1:L:603:VAL:HG13	1.79	0.82
1:L:774:TYR:HB2	1:L:776:ILE:HG13	1.60	0.82
4:M:156:GLN:CB	4:M:211:GLY:HA3	2.08	0.82
4:M:187:PHE:HB3	4:M:197:VAL:HG12	1.62	0.82
6:V:205:PRO:O	6:V:208:TYR:CD1	2.32	0.82
1:C:163:GLY:HA3	1:C:208:GLU:HG2	1.62	0.82
1:D:291:GLU:O	1:D:293:PRO:HD3	1.80	0.82
1:F:188:TYR:CB	1:F:192:THR:OG1	2.27	0.82
1:F:667:ILE:HG12	1:F:901:LEU:O	1.79	0.82
1:H:219:ASP:OD1	1:H:219:ASP:N	2.10	0.82
1:J:910:MET:CE	1:J:914:THR:CG2	2.55	0.82
1:K:409:ASN:H	1:K:409:ASN:ND2	1.75	0.82
4:M:388:TRP:C	4:M:390:PRO:CD	2.48	0.82
6:U:2:SER:HB3	6:U:200:PRO:CD	2.09	0.82
7:4:19:MET:HB2	7:4:22:TRP:CD1	2.15	0.82
1:A:64:LEU:HB3	1:B:736:ARG:O	1.78	0.81
1:A:706:PRO:HB3	1:A:711:THR:O	1.80	0.81
1:B:88:VAL:HG13	1:B:576:PRO:C	1.99	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:94:LEU:HD13	1:B:619:PHE:CZ	2.15	0.81
1:C:60:ARG:NH2	6:U:93:ARG:CG	2.43	0.81
1:C:744:GLU:C	1:C:762:THR:HG21	2.00	0.81
1:D:94:LEU:HD23	1:D:574:LEU:HD23	1.61	0.81
1:D:892:MET:HE1	1:F:3:THR:HG1	1.35	0.81
1:E:64:LEU:CB	1:F:736:ARG:O	2.27	0.81
1:E:553:GLY:N	1:F:804:GLN:HG3	1.95	0.81
1:G:141:GLN:CD	1:I:446:ILE:CD1	2.44	0.81
1:G:147:VAL:O	1:G:147:VAL:HG12	1.79	0.81
1:G:428:ILE:HD13	1:H:169:ASN:HB3	1.60	0.81
1:G:721:VAL:CG2	1:G:905:PHE:CE1	2.63	0.81
1:I:269:PRO:CA	1:I:274:GLY:O	2.28	0.81
1:I:597:LEU:O	1:I:597:LEU:HD23	1.78	0.81
1:J:756:VAL:HG12	1:J:763:LYS:HA	1.61	0.81
1:L:76:THR:HG22	1:L:77:THR:N	1.93	0.81
2:N:100:PHE:HE2	2:N:483:ILE:HD12	1.44	0.81
5:P:39:ARG:CZ	5:P:41:VAL:CG2	2.56	0.81
6:U:159:ARG:C	6:U:159:ARG:HD2	2.01	0.81
6:U:168:TYR:CB	7:1:31:ASN:HB3	2.10	0.81
1:A:331:VAL:HG12	1:A:565:LYS:HZ3	1.43	0.81
1:A:405:ASP:OD1	1:A:405:ASP:C	2.19	0.81
1:A:756:VAL:HG23	1:A:763:LYS:HA	1.62	0.81
1:B:9:GLN:HB3	6:U:16:GLN:HA	1.62	0.81
1:B:135:TRP:NE1	1:B:156:THR:CG2	2.39	0.81
1:C:6:MET:HA	1:C:6:MET:CE	2.10	0.81
1:C:107:LEU:HG	1:C:108:ASP:N	1.95	0.81
1:C:263:VAL:CG1	1:C:264:PRO:HD2	2.10	0.81
1:C:447:SER:C	1:C:448:ARG:HG2	1.99	0.81
1:C:910:MET:CE	1:C:914:THR:CG2	2.57	0.81
1:D:344:VAL:HG23	1:D:353:ASN:OD1	1.79	0.81
1:D:445:ALA:HB1	1:D:449:GLN:H	1.44	0.81
1:D:806:VAL:HG13	1:D:856:VAL:HG21	1.62	0.81
1:E:131:ASN:ND2	1:E:225:CYS:HB2	1.95	0.81
1:E:417:THR:HG22	1:F:157:PHE:CZ	2.15	0.81
1:F:153:VAL:O	1:F:153:VAL:HG12	1.77	0.81
1:G:589:VAL:HG23	1:G:593:LEU:HD23	1.62	0.81
1:G:912:GLU:HB2	1:G:913:PRO:HD2	1.62	0.81
1:H:451:GLN:HE21	1:I:157:PHE:HE1	1.26	0.81
1:H:514:VAL:CG2	1:H:518:ILE:HD13	2.10	0.81
1:K:134:GLN:OE1	1:K:154:THR:HG22	1.80	0.81
1:L:403:VAL:HG11	1:L:466:ALA:HB2	1.61	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:667:ILE:HD11	1:L:920:PHE:CE2	2.15	0.81
1:A:158:GLY:O	1:C:453:CYS:N	2.14	0.81
1:A:170:GLN:HG2	1:A:185:LYS:HE3	1.62	0.81
1:B:22:GLU:HG3	6:U:177:GLU:HG2	1.62	0.81
1:B:445:ALA:O	1:B:449:GLN:CD	2.18	0.81
1:B:485:TYR:OH	1:B:528:PRO:HB3	1.80	0.81
1:C:246:ASN:HD21	1:C:252:LYS:CG	1.93	0.81
1:C:357:ASP:OD1	1:C:566:PHE:CZ	2.32	0.81
1:D:46:ARG:HB3	1:D:46:ARG:NH1	1.94	0.81
1:D:400:ASN:HD22	1:D:520:ILE:HA	1.41	0.81
1:E:77:THR:O	5:P:76:ARG:NH2	2.13	0.81
1:F:109:ARG:NH1	1:F:551:GLY:O	2.12	0.81
1:F:564:GLN:HE22	1:F:566:PHE:H	1.29	0.81
1:F:950:ALA:CB	1:H:893:LEU:HG	2.07	0.81
1:G:636:ASN:OD1	1:G:638:THR:HG22	1.80	0.81
1:H:148:GLN:HG3	1:H:150:GLU:CD	1.99	0.81
1:I:88:VAL:HG23	1:I:576:PRO:HA	1.61	0.81
1:I:94:LEU:HD23	1:I:574:LEU:HD21	1.61	0.81
1:I:137:THR:HG22	1:I:138:LYS:N	1.95	0.81
1:J:195:PRO:O	1:K:839:GLY:CA	2.27	0.81
1:K:949:ASN:OD1	6:U:34:LEU:CD2	2.29	0.81
1:L:371:LEU:CD1	1:L:377:ARG:NH2	2.44	0.81
1:L:400:ASN:HB3	1:L:469:TRP:CZ2	2.15	0.81
1:L:808:GLU:CG	1:L:814:TYR:CZ	2.63	0.81
4:M:388:TRP:CZ2	4:M:389:LEU:HD23	2.15	0.81
5:R:12:LEU:HD21	5:R:17:LEU:HD21	1.62	0.81
7:6:24:GLU:OE2	7:6:27:THR:OG1	1.98	0.81
1:B:261:PHE:O	1:B:280:ASP:HB3	1.79	0.81
1:C:575:LEU:HB3	1:C:576:PRO:HD2	1.63	0.81
1:D:723:ILE:O	1:D:730:SER:CB	2.28	0.81
1:D:892:MET:SD	1:F:3:THR:OG1	2.33	0.81
1:E:204:TRP:HZ3	1:F:313:VAL:HG13	1.41	0.81
1:E:453:CYS:O	1:F:159:VAL:HG13	1.80	0.81
1:E:746:LYS:HB3	1:E:864:PHE:CE2	2.15	0.81
1:F:136:GLU:OE2	1:F:218:LYS:CD	2.27	0.81
1:F:243:LYS:HD3	1:F:243:LYS:H	1.43	0.81
1:F:875:PHE:O	1:F:875:PHE:HD2	1.63	0.81
1:G:157:PHE:CE1	1:G:312:LEU:CD2	2.63	0.81
1:H:239:GLN:NE2	1:H:240:ALA:H	1.78	0.81
1:H:747:ARG:HB2	1:H:762:THR:CG2	2.09	0.81
1:J:188:TYR:HA	1:J:192:THR:HG1	1.42	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:449:GLN:O	1:K:153:VAL:CG1	2.28	0.81
1:K:132:PRO:CB	1:K:157:PHE:O	2.24	0.81
1:K:327:ARG:NE	1:K:594:GLN:HB3	1.94	0.81
1:L:358:LEU:HB2	1:L:361:ARG:HH12	1.45	0.81
1:L:773:HIS:CD2	1:L:794:PHE:HB3	2.14	0.81
6:U:207:LEU:O	6:U:207:LEU:CG	2.26	0.81
1:A:407:LEU:CD2	1:C:474:TYR:CE2	2.58	0.81
1:A:424:GLN:HB3	1:A:446:ILE:C	2.01	0.81
1:A:449:GLN:HG2	1:B:139:GLU:OE2	1.79	0.81
1:A:670:ARG:NH1	1:A:945:PHE:CD2	2.48	0.81
1:A:885:LEU:HD23	1:C:50:VAL:HG12	1.63	0.81
1:B:193:PHE:HE2	1:B:198:GLN:HA	1.44	0.81
1:B:408:PRO:O	1:B:410:TYR:CE1	2.33	0.81
1:C:359:GLN:HA	1:C:359:GLN:NE2	1.94	0.81
1:D:402:GLY:HA3	1:F:117:SER:O	1.79	0.81
1:D:705:ILE:O	1:D:705:ILE:HG13	1.80	0.81
1:F:478:ALA:O	1:F:480:TYR:N	2.12	0.81
1:H:351:GLN:NE2	1:H:351:GLN:N	2.27	0.81
1:H:731:TRP:O	1:H:733:GLY:N	2.13	0.81
1:I:246:ASN:ND2	1:I:250:GLN:O	2.12	0.81
1:I:842:TYR:CD2	1:I:843:PRO:HD2	2.15	0.81
1:J:89:GLY:C	1:J:92:ARG:HD3	2.01	0.81
1:J:135:TRP:HE1	1:J:156:THR:HG1	1.26	0.81
1:J:195:PRO:C	1:J:198:GLN:HE21	1.84	0.81
1:K:101:PHE:CE2	1:K:581:TYR:HE2	1.99	0.81
1:K:552:ASN:ND2	1:L:522:ALA:HB2	1.96	0.81
1:K:773:HIS:CE1	1:K:872:ARG:HH21	1.98	0.81
1:L:100:TYR:CD2	1:L:561:GLN:HG3	2.16	0.81
1:L:477:VAL:HG13	1:L:478:ALA:N	1.93	0.81
4:M:206:LEU:HD23	4:M:252:LEU:HD13	1.60	0.81
5:R:46:SER:HB3	5:R:48:THR:H	1.44	0.81
6:U:51:ARG:HG2	6:U:51:ARG:O	1.81	0.81
1:A:55:ASP:O	1:A:56:VAL:CG1	2.28	0.81
1:A:67:ARG:O	1:A:67:ARG:HG3	1.79	0.81
1:B:3:THR:OG1	1:B:4:PRO:CD	2.27	0.81
1:B:63:ARG:HB3	1:B:66:LEU:CD2	2.10	0.81
1:B:80:TYR:O	1:B:584:ASN:CA	2.29	0.81
1:B:188:TYR:HA	1:B:192:THR:HG22	1.62	0.81
1:B:194:GLN:HG2	1:B:197:PRO:HD3	1.60	0.81
1:C:174:LEU:HD11	1:C:191:LYS:HZ3	1.42	0.81
1:C:203:ASN:ND2	1:C:204:TRP:CZ3	2.47	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:204:TRP:NE1	1:C:415:ASN:CG	2.27	0.81
1:D:200:GLY:HA3	1:D:206:GLU:HG3	1.61	0.81
1:D:409:ASN:HB3	1:F:467:ASN:OD1	1.80	0.81
1:D:829:THR:HG22	1:D:830:GLY:H	1.45	0.81
1:F:102:ASP:OD1	1:F:616:TYR:CE1	2.34	0.81
1:F:667:ILE:HD11	1:F:901:LEU:HG	1.62	0.81
1:G:152:ASP:O	1:I:445:ALA:HB2	1.81	0.81
1:G:513:LEU:CB	1:G:819:LEU:HD11	2.10	0.81
1:I:217:LYS:HZ1	1:I:286:GLU:HA	1.42	0.81
1:I:731:TRP:C	1:I:733:GLY:N	2.28	0.81
1:K:190:ASP:CG	1:K:191:LYS:N	2.33	0.81
1:K:819:LEU:N	1:K:820:PRO:HD2	1.96	0.81
5:P:36:VAL:H	5:P:43:PRO:HG2	1.44	0.81
5:Q:36:VAL:N	5:Q:43:PRO:CG	2.44	0.81
1:A:159:VAL:HA	1:C:453:CYS:HB3	1.60	0.81
1:A:877:SER:CB	1:C:57:THR:HG21	2.11	0.81
1:C:60:ARG:NE	6:U:93:ARG:HH11	1.77	0.81
1:C:721:VAL:HG23	1:C:743:PHE:HB2	1.62	0.81
1:C:724:MET:CE	1:C:729:VAL:HG11	2.08	0.81
1:D:731:TRP:CE3	1:D:732:PRO:HD3	2.15	0.81
1:D:804:GLN:OE1	1:F:556:VAL:HG13	1.81	0.81
1:E:424:GLN:NE2	1:F:264:PRO:HA	1.96	0.81
1:F:577:GLY:HA2	1:F:933:ARG:O	1.80	0.81
1:G:157:PHE:HE1	1:G:312:LEU:CD2	1.94	0.81
1:I:758:GLN:O	1:I:862:LYS:CD	2.28	0.81
1:J:134:GLN:HB2	1:J:155:LYS:CD	2.11	0.81
1:L:66:LEU:HD12	1:L:619:PHE:CE1	2.14	0.81
1:L:476:ASN:HD21	1:L:539:ARG:HD2	1.46	0.81
1:A:566:PHE:O	1:A:570:LYS:CB	2.29	0.81
1:A:689:PRO:CD	1:A:705:ILE:HG21	2.11	0.81
1:B:239:GLN:HG3	1:C:842:TYR:HE2	1.45	0.81
1:B:670:ARG:HD3	2:N:88:PHE:CE2	2.16	0.81
1:C:21:SER:OG	7:2:11:PRO:CG	2.29	0.81
1:C:130:PRO:HB2	1:C:312:LEU:CD1	2.10	0.81
1:C:134:GLN:HB3	1:C:155:LYS:HZ3	1.45	0.81
1:D:877:SER:HB2	1:F:57:THR:HG21	1.60	0.81
1:G:16:ALA:HA	1:G:48:PRO:HB3	1.61	0.81
1:G:162:THR:HG23	1:G:163:GLY:O	1.79	0.81
1:G:673:ALA:HB3	1:G:943:THR:HG21	1.62	0.81
1:H:907:VAL:HG12	1:H:908:ASP:H	1.45	0.81
1:I:306:ASN:OD1	1:I:306:ASN:N	2.11	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:114:LYS:NZ	1:K:116:TYR:O	2.13	0.81
1:K:432:ASN:O	1:K:437:GLU:OE1	1.99	0.81
1:L:672:TRP:CZ3	1:L:899:HIS:O	2.34	0.81
1:B:201:GLU:HG3	1:B:202:GLU:H	1.44	0.81
1:B:304:SER:HB2	1:B:306:ASN:ND2	1.96	0.81
1:B:368:GLN:HE22	1:B:377:ARG:CZ	1.93	0.81
1:C:21:SER:CB	7:2:11:PRO:HG3	2.10	0.81
1:C:149:GLN:O	1:C:149:GLN:CG	2.27	0.81
1:D:215:ALA:HB3	1:D:285:THR:HG22	1.63	0.81
1:F:255:ASP:OD2	1:F:286:GLU:HB2	1.80	0.81
1:H:587:LYS:HG3	1:H:608:VAL:CG2	2.10	0.81
1:I:168:THR:CG2	1:I:185:LYS:HZ2	1.75	0.81
1:I:510:ALA:CA	1:I:832:LEU:O	2.27	0.81
1:K:33:ARG:CD	7:8:12:ARG:HB3	2.05	0.81
1:K:677:GLY:H	1:K:921:GLU:CB	1.94	0.81
1:L:827:GLY:HA2	1:L:840:GLN:N	1.94	0.81
2:N:73:ASN:HD22	2:N:78:PHE:HA	1.42	0.81
4:M:273:PHE:CZ	6:U:62:THR:HG23	2.14	0.81
6:U:70:ASN:O	6:U:70:ASN:CG	2.20	0.81
7:3:18:PHE:O	7:3:18:PHE:CG	2.26	0.81
1:B:831:TYR:CB	1:B:838:GLN:HE22	1.90	0.81
1:D:198:GLN:CD	1:E:838:GLN:CB	2.48	0.81
1:D:204:TRP:CZ3	1:E:313:VAL:HA	2.15	0.81
1:E:193:PHE:CE1	1:E:212:GLY:HA3	2.15	0.81
1:E:676:ARG:NH1	7:3:5:ASN:ND2	2.03	0.81
1:F:397:ILE:CD1	1:F:523:ARG:NH2	2.43	0.81
1:F:438:SER:OG	1:F:440:TRP:CE3	2.33	0.81
1:F:691:LEU:H	1:F:691:LEU:HD23	1.46	0.81
1:F:811:TYR:CD1	1:F:856:VAL:HG23	2.16	0.81
1:F:811:TYR:CD2	1:F:814:TYR:HB2	2.16	0.81
1:F:942:ARG:HH21	1:F:947:ALA:HB2	1.44	0.81
1:H:64:LEU:HB2	1:I:736:ARG:O	1.80	0.81
1:H:775:ASN:HD22	1:H:880:MET:HE2	1.45	0.81
1:I:682:ARG:NH2	1:I:907:VAL:HG21	1.95	0.81
1:J:66:LEU:HD12	1:J:66:LEU:N	1.95	0.81
1:J:267:SER:HB2	1:J:268:PRO:HD3	1.63	0.81
1:J:345:LEU:HD13	1:J:581:TYR:HE1	1.42	0.81
1:K:241:LYS:CE	1:K:256:ILE:HD13	2.10	0.81
1:K:922:VAL:HG12	1:K:944:PRO:HG2	1.62	0.81
1:L:525:SER:H	1:L:801:MET:HE1	0.64	0.81
1:L:575:LEU:HD13	1:L:631:GLU:HG2	1.63	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:682:ARG:HE	1:L:907:VAL:HG21	1.46	0.81
5:R:130:GLN:O	5:R:134:LYS:HB2	1.80	0.81
5:S:127:GLU:HB3	5:S:131:GLN:HE21	1.46	0.81
1:A:720:LYS:O	1:A:905:PHE:O	1.99	0.80
1:C:748:SER:HB3	1:C:760:ASN:HD22	1.45	0.80
1:E:88:VAL:HG23	1:E:576:PRO:HA	1.61	0.80
1:E:134:GLN:HG2	1:E:155:LYS:H	1.45	0.80
1:E:531:ASN:HB2	1:E:714:LEU:HD13	1.62	0.80
1:F:173:LEU:HA	1:F:185:LYS:HA	1.63	0.80
1:F:255:ASP:O	1:F:256:ILE:HG13	1.81	0.80
1:G:775:ASN:CG	1:G:880:MET:SD	2.60	0.80
1:H:277:TYR:CE1	1:H:278:LYS:CB	2.64	0.80
1:H:663:VAL:CG2	5:Q:17:LEU:CD1	2.45	0.80
1:K:320:ARG:NH1	1:K:597:LEU:HD11	1.95	0.80
1:K:345:LEU:HD23	1:K:581:TYR:CD1	2.16	0.80
1:L:199:VAL:HG13	1:L:206:GLU:HG2	0.81	0.80
5:P:14:SER:HB2	5:Q:15:PRO:HB3	1.63	0.80
1:A:623:ALA:HB3	1:A:626:THR:HG22	1.61	0.80
1:B:824:ASN:HA	1:B:844:ALA:HB1	1.61	0.80
1:D:202:GLU:HA	1:E:313:VAL:HG11	1.61	0.80
1:E:94:LEU:CD1	1:E:619:PHE:CD2	2.62	0.80
1:E:124:LEU:H	1:F:825:ASN:ND2	1.78	0.80
1:F:705:ILE:HD12	1:F:708:LEU:HG	1.63	0.80
1:G:908:ASP:HB2	1:G:909:PRO:CD	2.11	0.80
1:H:269:PRO:HG3	1:H:277:TYR:CD2	2.11	0.80
1:H:672:TRP:CZ3	1:H:945:PHE:CZ	2.68	0.80
1:H:811:TYR:CD1	1:H:857:PRO:HD2	2.16	0.80
1:H:865:LEU:HD12	1:H:866:CYS:H	1.45	0.80
1:I:476:ASN:O	1:I:480:TYR:HD2	1.59	0.80
1:I:891:ASN:HD22	1:I:891:ASN:N	1.78	0.80
1:K:172:LEU:HD21	1:K:193:PHE:HZ	0.99	0.80
1:K:514:VAL:O	1:K:514:VAL:HG13	1.80	0.80
1:L:267:SER:C	1:L:277:TYR:CD2	2.54	0.80
1:L:524:TRP:CG	1:L:803:ARG:HG2	2.16	0.80
4:M:145:LEU:HD13	4:M:167:ARG:HH21	1.46	0.80
5:P:16:TYR:CA	5:Q:18:THR:OG1	2.28	0.80
1:A:377:ARG:NE	1:A:388:VAL:HG11	1.97	0.80
1:A:905:PHE:O	1:A:906:GLU:CG	2.25	0.80
1:C:88:VAL:O	1:C:88:VAL:HG12	1.79	0.80
1:E:88:VAL:HG23	1:E:88:VAL:O	1.78	0.80
1:E:744:GLU:O	1:E:765:TRP:HB2	1.81	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:924:ASP:HA	1:E:941:LEU:O	1.81	0.80
1:F:652:MET:HE3	5:R:20:ARG:HH11	1.44	0.80
1:G:50:VAL:HG12	1:H:890:GLN:HE22	1.44	0.80
1:H:46:ARG:HD3	1:I:644:ASN:ND2	1.97	0.80
1:H:760:ASN:OD1	5:R:54:VAL:CG2	2.28	0.80
1:J:199:VAL:HG13	1:J:206:GLU:HG2	1.62	0.80
1:J:437:GLU:O	1:K:278:LYS:HD2	1.80	0.80
1:J:684:LYS:HA	1:J:914:THR:HG22	1.62	0.80
1:K:58:THR:CB	1:K:623:ALA:HA	2.11	0.80
1:K:443:ASP:O	1:L:152:ASP:N	2.14	0.80
1:K:451:GLN:O	1:L:156:THR:O	1.99	0.80
7:9:24:GLU:O	7:9:25:ILE:HG12	1.80	0.80
1:A:520:ILE:CD1	1:C:120:ALA:HB2	2.12	0.80
1:A:564:GLN:HE22	1:A:569:ILE:HG21	1.46	0.80
1:B:26:PRO:HB3	6:U:176:SER:HB3	1.63	0.80
1:B:242:PHE:HE2	1:B:288:VAL:HA	1.47	0.80
1:B:682:ARG:HH12	1:B:910:MET:HB2	1.45	0.80
1:B:835:THR:CG2	1:B:836:MET:H	1.89	0.80
1:D:456:ASN:CB	1:F:837:ARG:NE	2.43	0.80
1:D:912:GLU:HB2	1:D:913:PRO:HD2	1.64	0.80
1:E:730:SER:CA	1:E:732:PRO:HD2	2.11	0.80
1:F:483:ASP:OD1	1:F:483:ASP:O	1.99	0.80
1:F:640:ASP:CB	1:F:928:VAL:O	2.28	0.80
1:F:643:PHE:CD1	1:F:643:PHE:N	2.48	0.80
1:G:169:ASN:HB3	1:I:432:ASN:HB2	1.63	0.80
1:G:194:GLN:O	1:G:197:PRO:HD2	1.81	0.80
1:H:282:ILE:HG12	1:H:283:LEU:N	1.96	0.80
1:H:736:ARG:O	1:H:737:LEU:CD2	2.29	0.80
1:J:198:GLN:HE22	1:K:840:GLN:CG	1.93	0.80
1:L:31:PHE:HD2	1:L:32:ALA:N	1.79	0.80
2:N:202:LYS:HZ2	2:N:453:LEU:CA	1.93	0.80
4:M:323:VAL:HG13	4:M:344:MET:HE1	1.64	0.80
6:V:19:LEU:HD23	6:V:72:ARG:NE	1.95	0.80
1:B:97:ALA:N	1:B:570:LYS:O	2.15	0.80
1:C:193:PHE:CE1	1:C:284:TYR:HD1	1.99	0.80
1:C:448:ARG:HG3	1:C:449:GLN:HE21	1.43	0.80
1:D:150:GLU:O	1:D:152:ASP:OD2	2.00	0.80
1:E:67:ARG:HG2	1:E:67:ARG:O	1.80	0.80
1:F:150:GLU:C	1:F:152:ASP:H	1.82	0.80
1:F:362:ASN:HD21	1:F:365:LEU:HB2	1.45	0.80
1:F:760:ASN:CG	5:P:54:VAL:CG2	2.49	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:682:ARG:HH21	1:H:910:MET:HB2	1.47	0.80
1:I:943:THR:HG22	1:I:944:PRO:CD	2.11	0.80
1:J:96:MET:HE2	1:J:574:LEU:HD11	1.63	0.80
1:K:448:ARG:HH11	1:K:448:ARG:CG	1.95	0.80
1:A:560:ILE:CG2	1:A:561:GLN:N	2.43	0.80
1:B:385:ASN:O	1:B:385:ASN:OD1	2.00	0.80
1:C:24:LEU:CD1	7:2:9:LEU:HD13	2.11	0.80
1:C:83:ARG:HB2	1:C:582:GLU:HB3	1.63	0.80
1:C:177:ASP:OD2	1:C:184:LYS:HB2	1.82	0.80
1:D:79:LEU:CD2	1:D:341:ASN:HD22	1.95	0.80
1:D:756:VAL:HA	1:F:561:GLN:NE2	1.97	0.80
1:E:449:GLN:HG3	1:E:450:ASN:OD1	1.80	0.80
1:E:676:ARG:HH12	7:3:5:ASN:HD21	0.80	0.80
1:G:134:GLN:HE21	1:G:151:LYS:HD2	1.46	0.80
1:H:676:ARG:O	1:H:875:PHE:HB2	1.80	0.80
1:H:722:SER:O	1:H:903:MET:HA	1.81	0.80
1:I:801:MET:HE2	1:I:865:LEU:HB3	1.64	0.80
4:M:297:PHE:O	4:M:301:ASN:CG	2.20	0.80
5:P:33:GLY:HA3	5:P:44:ALA:O	1.82	0.80
7:3:22:TRP:CH2	7:3:25:ILE:HD12	2.15	0.80
1:A:24:LEU:HD13	1:B:639:HIS:HB2	1.62	0.80
1:A:97:ALA:O	1:B:780:GLY:N	2.14	0.80
1:A:380:TYR:HD2	1:A:387:ALA:CB	1.95	0.80
1:A:665:ILE:HD12	1:A:905:PHE:CE1	2.16	0.80
1:B:384:TRP:HA	1:B:384:TRP:CE3	2.16	0.80
1:B:836:MET:CA	1:B:836:MET:HE3	2.06	0.80
1:C:66:LEU:HD12	1:C:619:PHE:CE1	2.17	0.80
1:C:88:VAL:HG12	1:C:576:PRO:HA	1.61	0.80
1:C:372:ASP:OD2	1:C:791:MET:HB2	1.81	0.80
1:C:486:LYS:HG2	1:C:509:VAL:CG1	2.12	0.80
1:C:662:ASN:HB3	1:C:906:GLU:HG3	1.63	0.80
1:C:931:PRO:HD2	1:C:935:VAL:CG1	2.10	0.80
1:G:400:ASN:ND2	1:G:520:ILE:HA	1.97	0.80
1:H:58:THR:OG1	1:H:624:HIS:CD2	2.34	0.80
1:H:422:THR:HG23	1:H:449:GLN:O	1.81	0.80
1:H:444:ASP:CA	1:I:152:ASP:HA	2.11	0.80
1:I:243:LYS:HG3	1:I:251:PRO:CB	2.10	0.80
1:J:729:VAL:HG12	1:J:733:GLY:HA3	1.62	0.80
1:J:925:VAL:HG11	1:L:46:ARG:CZ	2.10	0.80
4:M:6:PRO:CG	4:M:11:ARG:HH22	1.95	0.80
1:F:480:TYR:OH	1:F:538:PRO:HD3	1.82	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:476:ASN:HD21	1:H:539:ARG:NH1	1.78	0.80
1:H:921:GLU:HA	1:H:921:GLU:OE1	1.80	0.80
1:I:206:GLU:OE1	1:I:206:GLU:HA	1.82	0.80
1:I:747:ARG:NH1	1:I:754:TYR:CD1	2.50	0.80
1:I:756:VAL:CG2	1:I:757:ALA:H	1.92	0.80
1:J:811:TYR:HD1	1:J:857:PRO:HD2	1.46	0.80
1:L:649:ALA:HB2	1:L:921:GLU:OE1	1.82	0.80
5:R:8:PHE:HD2	5:R:9:GLU:CB	1.85	0.80
1:A:774:TYR:HE1	1:A:789:ASP:HB3	1.45	0.80
1:B:20:ALA:HB1	7:1:9:LEU:HD12	1.64	0.80
1:B:46:ARG:HD3	1:C:644:ASN:ND2	1.97	0.80
1:B:339:THR:HA	1:B:342:MET:HE3	1.61	0.80
1:B:514:VAL:HG23	1:B:518:ILE:CD1	2.12	0.80
1:C:514:VAL:HG22	1:C:514:VAL:O	1.81	0.80
1:D:358:LEU:HD21	1:D:947:ALA:HB1	1.61	0.80
1:D:411:CYS:HB3	1:F:462:ILE:HB	1.64	0.80
1:D:432:ASN:HD21	1:E:169:ASN:H	1.29	0.80
1:E:297:VAL:HA	1:E:316:SER:HB3	1.64	0.80
1:F:554:ARG:HB2	1:F:555:TYR:CE2	2.16	0.80
1:F:740:PRO:CG	1:J:339:THR:HG22	2.12	0.80
1:F:806:VAL:HG11	1:F:856:VAL:HG11	1.64	0.80
1:H:103:ILE:HA	1:H:612:SER:O	1.81	0.80
1:J:734:ASN:O	1:J:734:ASN:CG	2.19	0.80
1:K:291:GLU:OE2	1:L:854:THR:CB	2.30	0.80
1:L:371:LEU:HB3	1:L:377:ARG:NH2	1.95	0.80
2:N:450:ASN:HD22	2:N:453:LEU:HB2	1.46	0.80
5:Q:35:THR:HG22	5:Q:40:PRO:HA	1.62	0.80
6:U:101:MET:O	6:U:106:VAL:HB	1.81	0.80
7:3:6:PHE:O	7:3:7:ALA:HB2	1.80	0.80
1:A:1:MET:O	1:A:2:ALA:C	2.17	0.80
1:A:152:ASP:C	1:A:154:THR:N	2.31	0.80
1:A:686:LYS:HE2	1:A:701:TYR:HB2	1.62	0.80
1:A:851:ILE:CD1	1:C:116:TYR:CE2	2.64	0.80
1:B:81:LYS:HZ1	2:N:404:GLN:HB3	1.47	0.80
1:B:377:ARG:HD2	1:B:388:VAL:HG13	1.63	0.80
1:C:720:LYS:CE	1:C:742:GLU:OE2	2.30	0.80
1:E:319:ASN:N	1:E:319:ASN:HD22	1.79	0.80
1:F:267:SER:OG	1:F:277:TYR:HE2	1.45	0.80
1:G:157:PHE:HE1	1:G:312:LEU:HD21	1.46	0.80
1:H:344:VAL:HG23	1:H:353:ASN:CG	2.01	0.80
1:H:722:SER:O	1:H:903:MET:CA	2.30	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:138:LYS:CG	1:K:147:VAL:HG12	2.10	0.80
1:K:301:PRO:O	1:K:302:GLY:O	2.00	0.80
1:L:134:GLN:CG	1:L:155:LYS:H	1.94	0.80
1:L:423:TYR:N	1:L:450:ASN:O	2.15	0.80
1:L:609:ARG:NH2	5:Q:66:ALA:CA	2.42	0.80
2:N:40:ASN:O	2:N:40:ASN:OD1	2.00	0.80
4:M:198:ASN:HA	6:U:199:ASN:HD21	1.47	0.80
5:R:35:THR:CA	5:R:43:PRO:HG3	2.10	0.80
5:S:34:SER:O	5:S:43:PRO:CB	2.29	0.80
6:U:13:TYR:HE1	6:U:188:PHE:CB	1.94	0.80
1:A:210:PHE:CA	1:A:280:ASP:OD2	2.29	0.79
1:A:812:LYS:O	1:A:813:ASP:OD1	1.99	0.79
1:B:381:PHE:CD1	1:C:795:PHE:HE1	1.98	0.79
1:E:243:LYS:HB3	1:E:253:ASP:O	1.82	0.79
1:E:428:ILE:HD13	1:F:169:ASN:CB	2.12	0.79
1:F:203:ASN:OD1	1:F:204:TRP:N	2.15	0.79
1:G:635:ARG:HG3	1:G:635:ARG:NH1	1.92	0.79
1:G:917:TYR:CE2	1:G:919:LEU:HB3	2.17	0.79
1:I:173:LEU:CG	1:I:185:LYS:NZ	2.45	0.79
1:I:738:LEU:C	1:I:740:PRO:HD3	2.01	0.79
1:J:654:TYR:CD2	1:J:665:ILE:HG21	2.17	0.79
1:K:115:PRO:O	1:K:323:TYR:CE2	2.35	0.79
1:K:170:GLN:NE2	1:K:185:LYS:HD2	1.96	0.79
1:K:428:ILE:HD13	1:L:169:ASN:HB3	1.64	0.79
1:L:51:ALA:HB1	1:L:52:PRO:HD2	1.65	0.79
1:L:513:LEU:HD13	1:L:819:LEU:HD22	1.63	0.79
6:U:197:TYR:CE2	6:U:200:PRO:CA	2.30	0.79
1:A:159:VAL:CG1	1:B:840:GLN:HB2	2.11	0.79
1:A:445:ALA:CB	1:B:152:ASP:HB3	2.12	0.79
1:B:58:THR:OG1	1:B:623:ALA:HA	1.80	0.79
1:B:440:TRP:CZ3	1:B:446:ILE:HG21	2.17	0.79
1:C:96:MET:CE	1:C:574:LEU:HD11	2.11	0.79
1:C:277:TYR:CE1	1:C:279:ALA:CB	2.62	0.79
1:D:704:SER:O	1:D:706:PRO:HD3	1.82	0.79
1:E:162:THR:OG1	1:E:193:PHE:HD2	1.60	0.79
1:F:69:VAL:HG23	1:F:70:PRO:HD2	1.64	0.79
1:F:328:ASP:O	1:F:331:VAL:HG13	1.81	0.79
1:F:648:SER:CB	1:F:922:VAL:O	2.28	0.79
1:G:280:ASP:OD1	1:G:281:ILE:N	2.15	0.79
1:G:481:LEU:HD23	1:G:529:MET:HG2	1.62	0.79
1:H:409:ASN:O	1:H:461:GLU:HB2	1.82	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:452:ILE:HG23	1:I:159:VAL:N	1.98	0.79
5:Q:34:SER:O	5:Q:43:PRO:HG2	1.82	0.79
5:R:2:ASN:OD1	5:R:6:GLY:CA	2.30	0.79
1:B:81:LYS:HB2	1:B:584:ASN:HB3	1.64	0.79
1:B:424:GLN:O	1:C:261:PHE:HA	1.83	0.79
1:C:803:ARG:HE	1:C:805:VAL:HG13	1.44	0.79
1:E:172:LEU:HD22	1:E:193:PHE:CZ	2.16	0.79
1:E:200:GLY:O	1:E:202:GLU:C	2.21	0.79
1:H:700:VAL:CG1	5:Q:34:SER:CB	2.58	0.79
1:I:937:GLU:HB2	8:Z:10:UNK:CB	2.13	0.79
1:J:411:CYS:HB3	1:L:462:ILE:HB	1.64	0.79
1:K:922:VAL:HG12	1:K:944:PRO:CG	2.11	0.79
1:L:371:LEU:HD12	1:L:377:ARG:HH21	1.44	0.79
1:L:615:LEU:H	1:L:615:LEU:HD23	1.47	0.79
2:N:279:LEU:O	2:N:331:ILE:CG1	2.27	0.79
1:A:188:TYR:CD1	1:A:256:ILE:HB	2.16	0.79
1:A:377:ARG:HE	1:A:388:VAL:HG11	1.47	0.79
1:A:851:ILE:HD11	1:C:116:TYR:CE2	2.17	0.79
1:B:531:ASN:HB3	1:B:714:LEU:HD13	1.64	0.79
1:C:83:ARG:CB	1:C:582:GLU:HB3	2.11	0.79
1:D:221:LYS:HB3	1:D:305:ASP:OD2	1.80	0.79
1:E:730:SER:HB2	1:E:732:PRO:HG2	1.64	0.79
1:F:43:ASN:HA	7:4:8:SER:HG	1.44	0.79
1:G:449:GLN:HB3	1:H:153:VAL:HG13	1.63	0.79
1:H:452:ILE:HG23	1:I:159:VAL:H	1.46	0.79
1:H:637:ASP:OD1	1:H:638:THR:N	2.14	0.79
1:H:824:ASN:HA	1:H:844:ALA:HB1	1.64	0.79
1:J:103:ILE:HD12	1:J:104:ARG:N	1.97	0.79
1:J:681:THR:HG22	1:J:682:ARG:H	1.45	0.79
1:K:241:LYS:HZ3	1:K:256:ILE:HG21	1.47	0.79
1:K:398:ILE:HD11	1:K:477:VAL:HG21	1.64	0.79
1:K:926:VAL:HG12	1:K:940:TYR:CD2	2.16	0.79
1:L:53:THR:HG22	1:L:53:THR:O	1.82	0.79
1:L:476:ASN:ND2	1:L:539:ARG:CD	2.44	0.79
2:N:182:LEU:CD2	2:N:446:ARG:HG3	2.11	0.79
2:N:186:LEU:HD12	2:N:190:ARG:HH11	1.44	0.79
4:M:98:LEU:C	4:M:100:ARG:H	1.86	0.79
1:A:783:VAL:CG1	1:A:784:PRO:CD	2.59	0.79
1:B:888:LEU:HD23	1:B:888:LEU:H	1.48	0.79
1:C:613:VAL:O	1:C:614:ASN:ND2	2.16	0.79
1:E:155:LYS:HE3	1:E:261:PHE:CZ	2.18	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:666:SER:HB3	5:R:16:TYR:CD2	2.17	0.79
1:G:194:GLN:CB	1:G:197:PRO:CG	2.54	0.79
1:I:829:THR:HG22	1:I:830:GLY:N	1.96	0.79
1:J:89:GLY:O	1:J:92:ARG:CG	2.30	0.79
1:J:530:ASP:OD1	1:J:531:ASN:N	2.15	0.79
1:K:65:THR:HG23	1:L:738:LEU:HD13	1.64	0.79
1:K:536:ASN:HB3	1:K:596:SER:C	2.03	0.79
1:L:667:ILE:CD1	1:L:920:PHE:CZ	2.58	0.79
2:N:399:PHE:HB2	2:N:409:PRO:HB3	1.63	0.79
4:M:170:VAL:HG22	4:M:179:TYR:OH	1.82	0.79
5:P:17:LEU:CA	5:R:14:SER:O	2.30	0.79
5:Q:35:THR:HA	5:Q:43:PRO:HG3	1.64	0.79
7:9:16:ARG:HD3	7:9:21:THR:HG21	1.63	0.79
1:A:277:TYR:CZ	1:A:279:ALA:CB	2.51	0.79
1:A:321:PRO:HG2	1:A:538:PRO:HB3	1.63	0.79
1:A:456:ASN:ND2	1:C:837:ARG:O	2.16	0.79
1:C:38:TYR:OH	7:2:24:GLU:HB2	1.83	0.79
1:C:544:ARG:HG2	1:C:545:TYR:N	1.95	0.79
1:E:441:GLU:HA	1:E:446:ILE:HG21	1.62	0.79
1:E:544:ARG:CG	1:E:544:ARG:CA	2.61	0.79
1:F:649:ALA:HA	1:F:920:PHE:O	1.83	0.79
1:G:404:GLU:HB3	1:I:475:SER:OG	1.82	0.79
1:H:620:PHE:CD2	1:H:622:MET:HG3	2.10	0.79
1:J:38:TYR:OH	1:K:56:VAL:CG1	2.30	0.79
1:K:295:THR:HG22	1:K:318:PRO:HA	1.65	0.79
1:K:638:THR:HG23	1:K:639:HIS:ND1	1.98	0.79
1:L:342:MET:HE1	1:L:357:ASP:H	1.48	0.79
4:M:141:LEU:HD22	4:M:170:VAL:CG2	2.13	0.79
1:A:50:VAL:HG13	1:B:890:GLN:HE22	1.47	0.79
1:A:815:LYS:HD3	1:C:233:THR:O	1.81	0.79
1:B:13:MET:CB	1:C:925:VAL:HG21	2.13	0.79
1:B:26:PRO:HG3	6:U:172:GLN:OE1	1.83	0.79
1:B:120:ALA:HB3	1:B:121:TYR:CE1	2.16	0.79
1:B:260:TYR:HD1	1:B:260:TYR:H	1.28	0.79
1:B:644:ASN:HD22	1:B:644:ASN:N	1.71	0.79
1:B:695:PHE:O	1:B:695:PHE:CD2	2.35	0.79
1:D:186:ASP:HB3	1:D:192:THR:HG22	1.63	0.79
1:D:243:LYS:CA	1:D:253:ASP:O	2.27	0.79
1:D:377:ARG:HH11	1:D:377:ARG:HG2	1.47	0.79
1:D:748:SER:HB3	1:D:760:ASN:ND2	1.97	0.79
1:E:69:VAL:HB	1:E:70:PRO:HD2	1.65	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:101:PHE:CZ	1:E:581:TYR:CE2	2.71	0.79
1:E:590:ASN:ND2	1:E:702:SER:HB3	1.97	0.79
1:F:358:LEU:HD12	1:F:361:ARG:HH12	1.47	0.79
1:F:649:ALA:HB3	1:F:919:LEU:HD23	1.65	0.79
1:H:277:TYR:CE1	1:H:278:LYS:HB3	2.18	0.79
1:H:413:PRO:HG2	1:H:418:GLY:N	1.98	0.79
1:I:392:ASP:HB3	1:I:395:VAL:HG22	1.65	0.79
1:I:597:LEU:HD22	1:I:599:ASN:HB3	1.65	0.79
1:I:809:ILE:HG13	1:I:810:ASN:CG	2.03	0.79
1:I:926:VAL:O	1:I:926:VAL:HG13	1.83	0.79
1:J:427:LYS:HB2	1:J:441:GLU:HB3	1.64	0.79
1:J:759:CYS:SG	1:J:864:PHE:HB3	2.22	0.79
1:K:644:ASN:HD22	1:K:644:ASN:N	1.78	0.79
5:P:35:THR:HG21	5:P:40:PRO:CA	2.09	0.79
5:P:49:MET:SD	5:P:49:MET:C	2.61	0.79
5:Q:53:THR:O	5:Q:53:THR:CG2	2.30	0.79
6:U:168:TYR:C	7:1:31:ASN:HB3	2.02	0.79
1:A:81:LYS:CB	1:A:584:ASN:OD1	2.31	0.79
1:A:194:GLN:CG	1:A:196:GLU:OE2	2.27	0.79
1:C:114:LYS:NZ	1:C:116:TYR:O	2.15	0.79
1:C:653:LEU:HD21	1:C:707:TYR:HE1	1.47	0.79
1:D:133:SER:HB2	1:D:216:LEU:HB2	1.63	0.79
1:E:449:GLN:HE21	1:E:450:ASN:HD21	1.28	0.79
1:E:498:THR:HG23	1:E:503:TYR:CE2	2.18	0.79
1:F:398:ILE:HG21	1:F:526:LEU:HD21	1.65	0.79
1:H:545:TYR:HE1	1:I:523:ARG:NH1	1.80	0.79
1:H:831:TYR:HE2	1:H:832:LEU:HD12	1.46	0.79
1:L:831:TYR:HB2	1:L:838:GLN:NE2	1.96	0.79
2:N:120:ASN:HB2	2:N:168:PHE:HD2	1.47	0.79
4:M:40:ASN:OD1	4:M:40:ASN:O	2.00	0.79
5:P:18:THR:HG23	5:P:19:THR:N	1.98	0.79
5:P:28:ARG:CB	5:P:31:VAL:HG21	2.12	0.79
5:S:30:ASN:HA	5:S:46:SER:HB3	1.61	0.79
6:V:66:ARG:HG3	6:V:68:LYS:O	1.83	0.79
1:B:377:ARG:HB2	1:B:388:VAL:HG21	1.62	0.79
1:B:635:ARG:NH1	1:B:933:ARG:H	1.81	0.79
1:B:641:GLN:HB3	1:B:643:PHE:CZ	2.17	0.79
1:B:749:VAL:C	1:B:750:ASP:OD1	2.21	0.79
1:E:22:GLU:OE2	7:3:19:MET:HE2	1.81	0.79
1:F:740:PRO:CB	1:J:339:THR:HG22	2.12	0.79
1:G:77:THR:HG22	5:R:72:MET:HG3	1.65	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:382:SER:HB2	1:G:549:LEU:HD21	1.64	0.79
1:K:135:TRP:HE1	1:K:156:THR:HG1	1.29	0.79
1:K:709:ASP:O	1:K:709:ASP:CG	2.21	0.79
1:K:941:LEU:HG	6:U:31:MET:HG2	1.63	0.79
1:L:153:VAL:HG12	1:L:153:VAL:O	1.82	0.79
1:L:778:TYR:CE1	1:L:880:MET:SD	2.76	0.79
1:L:811:TYR:CE1	1:L:856:VAL:HG12	2.18	0.79
5:Q:3:GLY:CA	5:R:1:MET:CE	2.59	0.79
5:Q:36:VAL:H	5:Q:43:PRO:HG3	1.47	0.79
1:A:198:GLN:HB3	1:B:839:GLY:H	1.47	0.79
1:A:477:VAL:O	1:A:529:MET:HE1	1.83	0.79
1:B:775:ASN:OD1	1:B:880:MET:CG	2.31	0.79
1:C:530:ASP:CG	1:C:865:LEU:HD21	2.02	0.79
1:C:724:MET:HE2	1:C:729:VAL:CB	2.11	0.79
1:D:31:PHE:O	1:D:35:THR:HG22	1.83	0.79
1:D:432:ASN:ND2	1:E:168:THR:OG1	2.16	0.79
1:E:607:SER:OG	1:E:608:VAL:N	2.16	0.79
1:H:239:GLN:HE21	1:H:240:ALA:N	1.81	0.79
1:H:731:TRP:O	1:H:731:TRP:CG	2.33	0.79
1:H:760:ASN:CG	5:R:54:VAL:CG2	2.52	0.79
1:I:94:LEU:HD11	1:I:617:ALA:HB1	1.64	0.79
1:I:339:THR:HA	1:I:342:MET:HE2	1.63	0.79
1:J:18:GLN:HE21	1:J:18:GLN:CA	1.94	0.79
1:J:773:HIS:CE1	1:J:872:ARG:NH2	2.51	0.79
1:K:126:PRO:HG2	1:K:129:ALA:HB2	1.63	0.79
1:L:687:GLU:HB3	1:L:706:PRO:HD2	1.65	0.79
2:N:431:SER:HA	2:N:434:ILE:HG22	1.64	0.79
5:P:9:GLU:OE2	5:P:13:PHE:CB	2.31	0.79
5:P:41:VAL:CA	5:P:43:PRO:HD3	2.12	0.79
1:A:480:TYR:HH	1:A:538:PRO:HD3	1.45	0.78
1:C:83:ARG:NH1	1:J:69:VAL:HG11	1.96	0.78
1:E:122:ASN:ND2	1:E:225:CYS:O	2.15	0.78
1:E:135:TRP:CH2	1:E:153:VAL:CG1	2.66	0.78
1:F:45:PHE:HD2	7:4:9:LEU:HD22	1.45	0.78
1:F:403:VAL:HG23	1:F:465:GLN:HB3	1.63	0.78
1:F:674:ALA:HB3	1:F:943:THR:HG21	1.66	0.78
1:F:740:PRO:HB2	1:J:339:THR:HG21	1.64	0.78
1:G:157:PHE:HZ	1:I:204:TRP:CH2	2.00	0.78
1:H:369:LEU:CD1	1:H:369:LEU:N	2.47	0.78
1:H:589:VAL:HG21	1:H:606:ALA:CB	2.14	0.78
1:J:4:PRO:HG3	4:M:295:LEU:CD1	2.13	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:774:TYR:CE1	1:J:784:PRO:HG3	2.18	0.78
1:J:852:GLY:O	1:L:554:ARG:HD2	1.83	0.78
1:K:574:LEU:HG	1:K:579:TYR:CE1	2.17	0.78
1:L:812:LYS:H	1:L:812:LYS:CD	1.93	0.78
2:N:119:PRO:HG2	2:N:122:ASN:HB3	1.63	0.78
6:V:13:TYR:HD1	6:V:188:PHE:CD1	2.01	0.78
7:5:17:PRO:CG	7:5:22:TRP:CE3	2.42	0.78
1:C:103:ILE:HG23	1:C:610:PHE:HD2	1.48	0.78
1:D:111:PRO:CG	1:D:554:ARG:NH2	2.45	0.78
1:D:456:ASN:HB3	1:F:837:ARG:HD2	1.64	0.78
1:E:162:THR:CG2	1:E:163:GLY:H	1.94	0.78
1:E:180:ALA:HB3	1:E:182:ASN:ND2	1.97	0.78
1:F:663:VAL:HG13	5:R:17:LEU:HD12	0.82	0.78
1:F:807:ASP:HB2	1:F:859:VAL:HG12	1.65	0.78
1:F:831:TYR:CA	1:F:838:GLN:HE21	1.96	0.78
1:G:225:CYS:O	1:G:225:CYS:SG	2.40	0.78
1:G:392:ASP:OD1	1:G:393:PRO:CD	2.31	0.78
1:H:366:SER:CB	1:H:647:LEU:CB	2.51	0.78
1:J:358:LEU:HD12	1:J:361:ARG:HD3	1.65	0.78
1:L:7:MET:CB	1:L:8:PRO:CD	2.61	0.78
5:R:14:SER:OG	5:R:15:PRO:CD	2.31	0.78
1:A:730:SER:O	1:A:732:PRO:HD2	1.83	0.78
1:C:731:TRP:NE1	1:C:875:PHE:CD1	2.51	0.78
1:E:155:LYS:CD	1:E:261:PHE:CZ	2.66	0.78
1:G:13:MET:CE	1:H:941:LEU:CB	2.61	0.78
1:G:412:PHE:HE2	1:I:837:ARG:HG3	1.49	0.78
1:G:513:LEU:C	1:G:513:LEU:HD12	2.03	0.78
1:I:103:ILE:HG21	1:I:610:PHE:CD2	2.18	0.78
1:J:476:ASN:O	1:J:480:TYR:CD2	2.36	0.78
1:J:587:LYS:HD2	1:J:610:PHE:CD1	2.19	0.78
1:J:636:ASN:CG	1:J:637:ASP:N	2.36	0.78
1:K:94:LEU:O	1:K:95:ASP:C	2.21	0.78
1:K:531:ASN:O	1:K:713:TYR:HE1	1.66	0.78
1:L:477:VAL:CG1	1:L:478:ALA:N	2.46	0.78
4:M:221:THR:HG22	4:M:222:VAL:H	1.48	0.78
5:Q:12:LEU:CD1	5:Q:15:PRO:CG	2.61	0.78
5:Q:60:ASP:HB2	5:Q:62:THR:HG22	1.64	0.78
1:B:13:MET:HG3	1:C:925:VAL:HG23	1.64	0.78
1:B:89:GLY:O	1:B:92:ARG:HG3	1.82	0.78
1:B:204:TRP:CD1	1:B:415:ASN:HB2	2.19	0.78
1:B:304:SER:HB2	1:B:306:ASN:HD21	1.47	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:358:LEU:HD23	2:N:95:THR:HG23	1.66	0.78
1:B:831:TYR:CA	1:B:838:GLN:HE21	1.95	0.78
1:C:572:LEU:HD12	1:C:573:LEU:N	1.98	0.78
1:C:910:MET:HE1	1:C:914:THR:CG2	2.11	0.78
1:D:657:PRO:HG2	1:D:660:ALA:HB2	1.65	0.78
1:D:754:TYR:O	1:D:762:THR:HA	1.83	0.78
1:E:108:ASP:O	1:E:606:ALA:O	2.00	0.78
1:E:626:THR:HG23	1:E:627:ALA:H	1.48	0.78
1:F:69:VAL:CG2	1:F:70:PRO:HD2	2.14	0.78
1:F:438:SER:OG	1:F:440:TRP:CZ3	2.36	0.78
1:G:103:ILE:H	1:G:103:ILE:HD12	1.49	0.78
1:G:344:VAL:HG23	1:G:353:ASN:HB2	1.64	0.78
1:H:885:LEU:HG	1:H:890:GLN:HE21	1.48	0.78
1:J:19:ASP:HB2	7:9:20:GLY:H	1.47	0.78
1:J:162:THR:HG21	1:J:193:PHE:HD2	0.96	0.78
1:J:762:THR:HG23	1:J:764:ASP:H	1.49	0.78
1:K:149:GLN:O	1:K:150:GLU:CG	2.30	0.78
1:K:196:GLU:HG3	1:L:831:TYR:CD1	2.19	0.78
1:K:438:SER:CB	1:L:278:LYS:HB3	2.14	0.78
1:K:575:LEU:HG	1:K:930:GLN:NE2	1.98	0.78
1:K:818:THR:HG22	1:K:819:LEU:H	1.48	0.78
1:L:199:VAL:HG11	1:L:206:GLU:HG3	1.61	0.78
1:L:270:ALA:HB2	1:L:277:TYR:HB3	1.65	0.78
1:L:842:TYR:CG	1:L:843:PRO:HD2	2.18	0.78
7:3:22:TRP:CZ3	7:3:25:ILE:CD1	2.59	0.78
1:A:226:TYR:OH	1:A:318:PRO:HG3	1.82	0.78
1:A:445:ALA:N	1:B:152:ASP:CB	2.46	0.78
1:B:695:PHE:O	1:B:697:PRO:HD3	1.83	0.78
1:C:191:LYS:HB2	1:C:194:GLN:HE21	1.47	0.78
1:D:224:PRO:HB3	1:D:314:GLN:O	1.84	0.78
1:E:52:PRO:CD	7:3:23:ASN:ND2	2.16	0.78
1:F:576:PRO:HD3	1:F:631:GLU:OE1	1.82	0.78
1:F:664:PRO:CG	5:P:19:THR:HG23	2.14	0.78
1:H:116:TYR:CD2	1:I:520:ILE:HG22	2.18	0.78
1:H:277:TYR:HD1	1:H:278:LYS:HB2	1.49	0.78
1:H:756:VAL:HG21	1:H:763:LYS:HG2	1.61	0.78
1:I:222:MET:HG2	1:I:307:SER:CB	2.13	0.78
1:I:809:ILE:HG13	1:I:810:ASN:N	1.97	0.78
1:J:328:ASP:OD1	1:J:328:ASP:O	2.00	0.78
1:J:839:GLY:CA	1:L:198:GLN:CD	2.52	0.78
1:K:425:GLY:O	1:K:426:VAL:HG13	1.82	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:457:VAL:O	1:C:837:ARG:CZ	2.32	0.78
1:B:4:PRO:O	1:B:7:MET:O	1.99	0.78
1:B:54:HIS:CD2	6:U:219:VAL:HG11	2.18	0.78
1:B:79:LEU:HD13	1:B:341:ASN:ND2	1.98	0.78
1:B:398:ILE:CD1	1:B:477:VAL:HG21	2.01	0.78
1:C:202:GLU:O	1:C:206:GLU:OE1	2.02	0.78
1:C:440:TRP:O	1:C:441:GLU:HG2	1.84	0.78
1:D:107:LEU:HG	1:D:108:ASP:H	1.47	0.78
1:D:323:TYR:O	1:D:324:ILE:HG13	1.83	0.78
1:D:930:GLN:H	1:D:937:GLU:HB2	1.47	0.78
1:F:194:GLN:HB2	1:F:197:PRO:CG	2.14	0.78
1:F:640:ASP:HB3	1:F:929:HIS:HB2	1.64	0.78
1:G:438:SER:HB3	1:H:277:TYR:O	1.83	0.78
1:G:536:ASN:HB3	1:G:596:SER:O	1.83	0.78
1:G:701:TYR:CD2	1:G:701:TYR:C	2.57	0.78
1:I:749:VAL:H	5:S:55:GLY:HA3	1.46	0.78
1:L:132:PRO:HB2	1:L:215:ALA:HA	1.65	0.78
2:N:141:PRO:CB	2:N:152:ASP:OD2	2.30	0.78
3:O:15:TYR:CE2	3:O:17:TYR:HA	2.18	0.78
5:Q:36:VAL:HG22	5:Q:43:PRO:HB3	0.78	0.78
7:3:9:LEU:HD22	7:3:9:LEU:O	1.83	0.78
1:A:188:TYR:CG	1:A:256:ILE:HG12	2.19	0.78
1:B:204:TRP:CZ3	1:C:313:VAL:HA	2.17	0.78
1:B:240:ALA:O	1:B:287:ASN:O	2.02	0.78
1:C:762:THR:HG23	1:C:765:TRP:HB3	1.65	0.78
1:D:83:ARG:HB2	1:D:582:GLU:HB2	1.65	0.78
1:E:477:VAL:CG1	1:E:514:VAL:HG21	2.13	0.78
1:G:214:ARG:NH2	1:G:241:LYS:HZ1	1.80	0.78
1:H:801:MET:HE3	1:H:865:LEU:HB3	1.65	0.78
1:I:543:LEU:HA	1:I:546:ARG:HH21	1.48	0.78
1:K:659:LYS:O	1:K:659:LYS:HG3	1.80	0.78
1:K:670:ARG:HB3	6:U:27:TYR:OH	1.84	0.78
1:L:112:SER:HB2	1:L:501:TYR:CB	2.13	0.78
1:L:896:ASN:ND2	6:V:21:ALA:HB1	1.99	0.78
5:S:30:ASN:HA	5:S:46:SER:OG	1.84	0.78
1:A:414:LEU:HD12	1:B:837:ARG:CZ	2.13	0.78
1:B:196:GLU:HG3	1:C:831:TYR:CD1	2.18	0.78
1:B:202:GLU:CG	1:C:299:TYR:CE2	2.65	0.78
1:C:147:VAL:O	1:C:147:VAL:CG1	2.31	0.78
1:C:527:ASP:N	1:C:528:PRO:CD	2.46	0.78
1:C:738:LEU:HB2	1:C:754:TYR:HE2	1.47	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:470:LYS:HG3	1:D:516:ALA:HB2	1.63	0.78
1:D:480:TYR:OH	1:D:538:PRO:HD3	1.83	0.78
1:E:132:PRO:HA	1:E:157:PHE:O	1.84	0.78
1:E:162:THR:C	1:E:199:VAL:CG2	2.52	0.78
1:E:203:ASN:OD1	1:E:204:TRP:N	2.15	0.78
1:F:649:ALA:HB3	1:F:919:LEU:CD2	2.14	0.78
1:G:150:GLU:CB	1:I:443:ASP:HB2	2.14	0.78
1:G:312:LEU:CD2	1:I:204:TRP:HH2	1.96	0.78
1:G:327:ARG:HH11	1:G:327:ARG:HG3	1.49	0.78
1:G:381:PHE:CE2	1:G:383:MET:HB3	2.19	0.78
1:H:116:TYR:CG	1:I:520:ILE:HG22	2.19	0.78
1:J:774:TYR:CD1	1:J:776:ILE:CD1	2.67	0.78
1:J:921:GLU:C	1:J:922:VAL:HG13	2.04	0.78
1:L:203:ASN:OD1	1:L:203:ASN:N	2.13	0.78
1:L:292:THR:OG1	1:L:295:THR:OG1	2.02	0.78
1:L:633:MET:HG2	6:V:171:LEU:HD13	1.66	0.78
6:V:2:SER:CB	6:V:200:PRO:HD2	2.12	0.78
7:5:24:GLU:CG	7:5:25:ILE:H	1.96	0.78
1:A:329:ASN:OD1	1:A:386:SER:HB2	1.82	0.78
1:A:455:GLY:C	1:A:456:ASN:O	2.21	0.78
1:C:723:ILE:C	1:C:729:VAL:HG23	2.04	0.78
1:C:808:GLU:HG2	1:C:814:TYR:HE2	1.47	0.78
1:D:509:VAL:HG12	1:D:510:ALA:H	1.49	0.78
1:E:333:LEU:HD13	1:E:592:ILE:HG21	1.65	0.78
1:E:575:LEU:HB2	1:E:635:ARG:NH2	1.98	0.78
1:F:478:ALA:C	1:F:480:TYR:H	1.86	0.78
1:F:760:ASN:HD22	1:F:760:ASN:H	1.32	0.78
1:G:134:GLN:CD	1:G:155:LYS:HZ3	1.86	0.78
1:G:424:GLN:HB3	1:G:447:SER:HB3	1.65	0.78
1:G:461:GLU:OE2	1:G:461:GLU:HA	1.83	0.78
1:H:277:TYR:CD1	1:H:278:LYS:CB	2.66	0.78
1:H:767:LEU:HD13	1:H:767:LEU:O	1.84	0.78
1:H:923:PHE:O	1:H:943:THR:HG22	1.83	0.78
1:I:83:ARG:HA	1:I:582:GLU:HB2	1.64	0.78
1:I:134:GLN:HA	1:I:154:THR:C	2.03	0.78
1:I:575:LEU:HB2	1:I:635:ARG:NH2	1.99	0.78
1:I:842:TYR:CD1	1:I:843:PRO:HD2	2.19	0.78
1:J:192:THR:O	1:J:192:THR:CG2	2.31	0.78
1:J:194:GLN:OE1	1:K:821:PHE:HB3	1.84	0.78
1:J:358:LEU:CD2	1:J:947:ALA:CB	2.47	0.78
1:K:918:LEU:HD12	1:K:919:LEU:H	1.49	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:240:ALA:O	1:L:241:LYS:HG3	1.83	0.78
1:L:498:THR:HG22	1:L:503:TYR:CZ	2.19	0.78
1:L:718:PHE:O	1:L:745:ILE:HG21	1.84	0.78
2:N:237:PRO:HA	2:N:268:TYR:CD2	2.19	0.78
1:A:328:ASP:O	1:A:329:ASN:HB2	1.84	0.78
1:B:155:LYS:CG	1:B:261:PHE:CZ	2.67	0.78
1:B:229:PHE:CZ	1:C:849:PRO:HD3	2.19	0.78
1:B:297:VAL:HA	1:B:316:SER:HB3	1.66	0.78
1:B:339:THR:HG23	1:B:342:MET:CE	2.14	0.78
1:C:151:LYS:O	1:C:154:THR:CB	2.29	0.78
1:C:497:ASN:H	1:C:497:ASN:HD22	1.32	0.78
1:C:936:ILE:O	1:C:936:ILE:CG1	2.25	0.78
1:D:425:GLY:HA3	1:D:444:ASP:OD2	1.84	0.78
1:D:877:SER:HB3	1:F:57:THR:HG21	1.65	0.78
1:E:188:TYR:CD1	1:E:256:ILE:HD12	2.18	0.78
1:E:204:TRP:CE3	1:F:313:VAL:CG1	2.57	0.78
1:E:746:LYS:CB	1:E:864:PHE:HE2	1.97	0.78
1:F:103:ILE:N	1:F:560:ILE:HD12	1.98	0.78
1:F:218:LYS:HG2	1:F:218:LYS:O	1.82	0.78
1:G:103:ILE:CG2	1:G:613:VAL:HG13	2.13	0.78
1:H:31:PHE:CZ	1:I:630:LEU:HD12	2.19	0.78
1:H:67:ARG:HH22	1:I:752:GLU:HB2	1.49	0.78
1:H:450:ASN:ND2	1:I:155:LYS:C	2.36	0.78
1:H:589:VAL:HG21	1:H:606:ALA:HB2	1.66	0.78
1:H:700:VAL:HG11	5:Q:34:SER:HB3	1.64	0.78
1:J:844:ALA:O	1:L:229:PHE:HA	1.83	0.78
1:J:910:MET:HE3	1:J:914:THR:HG21	1.66	0.78
2:N:226:TYR:HE2	2:N:429:VAL:CG1	1.97	0.78
2:N:395:ASP:O	2:N:396:PRO:O	2.01	0.78
4:M:155:GLY:O	4:M:156:GLN:CG	2.31	0.78
4:M:385:ASN:OD1	4:M:386:PRO:N	2.17	0.78
1:A:87:ALA:HA	1:A:578:SER:HA	1.65	0.77
1:B:10:TRP:HB3	1:B:16:ALA:HB3	1.66	0.77
1:B:239:GLN:OE1	1:C:845:ASN:HB3	1.84	0.77
1:B:536:ASN:O	1:B:537:HIS:CB	2.27	0.77
1:E:168:THR:HG21	1:E:185:LYS:HE3	1.66	0.77
1:G:132:PRO:HB3	1:G:158:GLY:O	1.84	0.77
1:G:147:VAL:O	1:G:147:VAL:HG13	1.81	0.77
1:G:829:THR:CG2	1:G:830:GLY:H	1.93	0.77
1:J:242:PHE:HE1	1:J:289:ASN:N	1.82	0.77
1:K:392:ASP:OD1	1:K:393:PRO:HD2	1.85	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:443:ASP:HB3	1:L:151:LYS:H	1.49	0.77
1:L:154:THR:HG22	1:L:155:LYS:CG	2.14	0.77
1:L:427:LYS:HB3	1:L:439:GLU:O	1.83	0.77
5:Q:4:THR:HG21	5:Q:13:PHE:HE2	0.70	0.77
5:Q:133:ASN:C	5:Q:134:LYS:HD2	2.04	0.77
6:V:64:THR:O	6:V:66:ARG:N	2.16	0.77
7:4:19:MET:O	7:4:20:GLY:C	2.21	0.77
1:B:329:ASN:ND2	1:B:386:SER:HB2	1.99	0.77
1:B:831:TYR:CE2	1:B:832:LEU:CD1	2.67	0.77
1:C:738:LEU:HB3	1:C:754:TYR:CE2	2.18	0.77
1:E:730:SER:CB	1:E:732:PRO:HD2	2.14	0.77
1:G:13:MET:HE1	1:H:925:VAL:HG23	1.59	0.77
1:G:155:LYS:HG3	1:G:261:PHE:HZ	1.44	0.77
1:G:220:THR:CG2	1:G:220:THR:O	2.32	0.77
1:G:722:SER:O	1:G:903:MET:HA	1.84	0.77
1:G:734:ASN:ND2	1:I:59:ASP:O	2.15	0.77
1:H:403:VAL:HG21	1:H:466:ALA:HA	1.64	0.77
1:H:650:ALA:HA	1:H:942:ARG:HH21	1.48	0.77
1:H:818:THR:C	1:H:820:PRO:HD2	2.05	0.77
1:J:153:VAL:HG13	1:L:449:GLN:O	1.84	0.77
1:J:681:THR:CG2	1:J:682:ARG:N	2.42	0.77
1:K:94:LEU:HB2	1:K:619:PHE:CD2	2.20	0.77
1:K:409:ASN:N	1:K:409:ASN:ND2	2.31	0.77
1:A:231:ARG:O	1:A:240:ALA:HB2	1.85	0.77
1:B:738:LEU:CD2	1:B:754:TYR:CD2	2.67	0.77
1:G:524:TRP:CZ3	1:G:802:SER:HA	2.19	0.77
1:G:682:ARG:CZ	1:G:907:VAL:HG21	2.15	0.77
1:H:333:LEU:HD12	1:H:592:ILE:HG21	1.65	0.77
1:J:811:TYR:CD1	1:J:857:PRO:HD2	2.19	0.77
1:K:133:SER:O	1:K:155:LYS:HA	1.84	0.77
1:L:432:ASN:O	1:L:437:GLU:HG3	1.83	0.77
5:Q:36:VAL:HG23	5:Q:43:PRO:HG3	1.64	0.77
7:1:18:PHE:CD1	7:1:22:TRP:CZ3	2.70	0.77
1:D:124:LEU:HB2	1:E:825:ASN:ND2	1.98	0.77
1:D:498:THR:HG23	1:D:503:TYR:HE2	1.49	0.77
1:D:587:LYS:CB	1:D:610:PHE:CE1	2.66	0.77
1:E:661:THR:O	1:E:661:THR:OG1	2.02	0.77
1:F:488:THR:HG22	1:F:494:LEU:HD12	1.64	0.77
1:G:83:ARG:HH21	1:G:580:THR:HG21	1.48	0.77
1:G:424:GLN:HB3	1:G:447:SER:CB	2.14	0.77
1:G:847:PRO:O	1:I:121:TYR:CE2	2.36	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:559:HIS:HE1	1:I:753:GLY:HA2	1.49	0.77
1:H:669:SER:HA	1:H:899:HIS:O	1.84	0.77
1:H:872:ARG:NH2	7:7:3:ASP:HA	1.99	0.77
1:I:218:LYS:HZ2	1:I:218:LYS:HB2	1.48	0.77
1:J:52:PRO:HG3	7:9:23:ASN:O	1.83	0.77
1:J:514:VAL:HG23	1:J:518:ILE:HD13	1.63	0.77
1:K:188:TYR:HD1	1:K:256:ILE:HD12	1.49	0.77
2:N:271:LEU:HA	2:N:367:VAL:CG2	2.15	0.77
4:M:296:ASN:O	4:M:299:LEU:HB2	1.85	0.77
1:A:135:TRP:HB3	1:A:307:SER:HB3	1.67	0.77
1:A:730:SER:C	1:A:732:PRO:CD	2.53	0.77
1:A:851:ILE:HD11	1:C:116:TYR:HE2	1.50	0.77
1:B:336:TYR:C	1:B:337:ASN:ND2	2.36	0.77
1:B:381:PHE:HD1	1:C:795:PHE:CZ	2.03	0.77
1:B:663:VAL:HG11	1:B:916:LEU:HD22	1.65	0.77
1:C:364:GLU:HG3	1:C:708:LEU:HD11	1.67	0.77
1:D:754:TYR:CD1	1:D:754:TYR:N	2.52	0.77
1:E:69:VAL:HG11	1:J:74:GLU:OE2	1.84	0.77
1:F:515:ASP:HB3	1:F:517:TYR:CE2	2.19	0.77
1:G:729:VAL:CG1	1:G:733:GLY:CA	2.62	0.77
1:G:825:ASN:ND2	1:I:124:LEU:H	1.82	0.77
1:I:731:TRP:HE1	1:I:888:LEU:CD2	1.98	0.77
1:J:836:MET:HE1	1:L:203:ASN:CA	2.04	0.77
5:Q:12:LEU:HD21	5:Q:17:LEU:HD21	1.64	0.77
7:3:9:LEU:O	7:3:9:LEU:HD13	1.85	0.77
1:A:445:ALA:HB2	1:B:152:ASP:HB3	1.66	0.77
1:B:80:TYR:O	1:B:584:ASN:HA	1.83	0.77
1:B:127:LYS:NZ	1:C:405:ASP:CG	2.38	0.77
1:B:138:LYS:HE2	1:B:149:GLN:NE2	1.99	0.77
1:B:921:GLU:C	1:B:922:VAL:HG13	2.04	0.77
1:C:83:ARG:HH12	1:J:69:VAL:CB	1.98	0.77
1:C:330:PHE:HD1	1:C:384:TRP:O	1.67	0.77
1:D:358:LEU:HD21	1:D:947:ALA:CB	2.14	0.77
1:F:377:ARG:NH2	1:F:388:VAL:HG22	2.00	0.77
1:F:731:TRP:N	1:F:732:PRO:CD	2.47	0.77
1:F:875:PHE:O	1:F:875:PHE:CD2	2.36	0.77
1:G:663:VAL:CG1	1:G:905:PHE:O	2.33	0.77
1:H:162:THR:HG22	1:H:163:GLY:H	1.47	0.77
1:H:603:VAL:HA	5:Q:40:PRO:HG3	1.65	0.77
1:H:731:TRP:O	1:H:731:TRP:CD1	2.38	0.77
1:J:188:TYR:O	1:J:192:THR:HB	1.84	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:823:HIS:HB3	1:L:196:GLU:CD	2.05	0.77
1:K:75:ALA:HB2	1:K:80:TYR:HD1	1.50	0.77
1:L:188:TYR:CD1	1:L:256:ILE:HD13	2.15	0.77
1:L:806:VAL:CG1	1:L:856:VAL:CG2	2.62	0.77
1:A:653:LEU:HD23	1:A:915:LEU:HD13	1.66	0.77
1:C:809:ILE:HG13	1:C:810:ASN:N	1.99	0.77
1:E:99:THR:HG22	1:E:617:ALA:HB2	1.67	0.77
1:F:233:THR:OG1	1:F:240:ALA:HA	1.83	0.77
1:F:339:THR:HG22	1:H:740:PRO:CG	2.15	0.77
1:F:686:LYS:CG	5:Q:8:PHE:CZ	2.60	0.77
1:G:17:GLY:O	7:6:19:MET:SD	2.43	0.77
1:G:844:ALA:N	1:I:228:SER:O	2.18	0.77
1:J:24:LEU:HD23	1:J:28:LEU:HD12	1.65	0.77
1:J:277:TYR:CG	1:J:277:TYR:HB2	1.30	0.77
1:J:377:ARG:HB3	1:J:388:VAL:HG21	1.67	0.77
1:K:241:LYS:HZ3	1:K:256:ILE:HD13	0.95	0.77
1:K:682:ARG:NH1	1:K:907:VAL:HG12	2.00	0.77
1:K:885:LEU:HD12	1:K:923:PHE:HE2	1.49	0.77
1:L:134:GLN:CD	1:L:154:THR:HG21	2.05	0.77
1:L:134:GLN:OE1	1:L:154:THR:CG2	2.28	0.77
5:R:34:SER:HA	5:R:43:PRO:HD2	1.64	0.77
7:1:22:TRP:CZ3	7:1:25:ILE:CG2	2.68	0.77
1:A:130:PRO:CD	1:C:204:TRP:CH2	2.68	0.77
1:A:196:GLU:CG	1:B:823:HIS:HB3	2.15	0.77
1:A:230:ALA:HB3	1:A:239:GLN:NE2	1.99	0.77
1:A:838:GLN:HA	1:B:456:ASN:ND2	2.00	0.77
1:B:214:ARG:HH22	1:B:241:LYS:CE	1.98	0.77
1:B:225:CYS:O	1:B:225:CYS:SG	2.42	0.77
1:B:376:ASP:OD2	1:B:376:ASP:C	2.23	0.77
1:B:769:GLN:HG2	1:B:794:PHE:CE1	2.20	0.77
1:C:83:ARG:CB	1:C:582:GLU:HB2	2.10	0.77
1:C:803:ARG:NE	1:C:805:VAL:HG13	1.98	0.77
1:D:472:PHE:CE1	1:D:539:ARG:NH1	2.53	0.77
1:E:152:ASP:C	1:E:154:THR:N	2.37	0.77
1:E:544:ARG:CB	1:E:544:ARG:CD	2.63	0.77
1:F:239:GLN:HE21	1:F:240:ALA:H	1.32	0.77
1:F:267:SER:H	1:F:277:TYR:HE2	1.25	0.77
1:F:686:LYS:HG2	5:Q:8:PHE:CE1	2.20	0.77
1:H:89:GLY:HA3	1:H:92:ARG:NE	1.98	0.77
1:H:481:LEU:C	1:H:482:PRO:O	2.15	0.77
1:H:720:LYS:O	1:H:721:VAL:CG2	2.33	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:923:PHE:HB2	1:H:943:THR:HG21	0.78	0.77
1:I:891:ASN:C	1:I:895:ALA:HB2	2.05	0.77
1:L:525:SER:CB	1:L:801:MET:HE3	2.14	0.77
5:S:104:LEU:O	5:S:104:LEU:HD23	1.84	0.77
1:B:139:GLU:HG3	1:B:152:ASP:HB3	1.66	0.77
1:B:187:ILE:HB	1:B:191:LYS:HB3	1.65	0.77
1:B:190:ASP:OD2	1:B:236:LYS:CB	2.33	0.77
1:B:242:PHE:O	1:B:243:LYS:C	2.23	0.77
1:B:508:VAL:HG21	1:B:833:ALA:HB1	1.65	0.77
1:B:738:LEU:HD23	1:B:754:TYR:HD2	1.47	0.77
1:C:790:ARG:HB3	1:C:790:ARG:HH11	1.48	0.77
1:D:731:TRP:CE2	1:D:732:PRO:HD3	2.18	0.77
1:D:885:LEU:O	1:F:51:ALA:HB2	1.85	0.77
1:F:657:PRO:HG3	5:Q:13:PHE:HZ	1.50	0.77
1:G:714:LEU:O	1:G:714:LEU:HD23	1.85	0.77
1:H:200:GLY:O	1:I:836:MET:CE	2.33	0.77
1:H:559:HIS:CE1	1:I:753:GLY:HA2	2.19	0.77
1:J:201:GLU:CG	1:K:299:TYR:CE1	2.67	0.77
1:J:298:VAL:HG22	1:J:317:MET:HE2	1.66	0.77
1:J:851:ILE:HD11	1:L:116:TYR:OH	1.84	0.77
1:K:485:TYR:HB3	1:K:513:LEU:HD21	1.66	0.77
1:L:100:TYR:HD2	1:L:561:GLN:HG3	1.49	0.77
2:N:328:VAL:HB	3:O:5:LEU:HD12	1.67	0.77
4:M:155:GLY:O	4:M:156:GLN:HG2	1.84	0.77
7:7:17:PRO:O	7:7:18:PHE:CB	2.29	0.77
1:A:567:PHE:CB	1:A:645:ASP:HB3	2.15	0.77
1:B:495:PRO:HG2	1:B:503:TYR:CB	2.13	0.77
1:C:88:VAL:CG1	1:C:576:PRO:HA	2.15	0.77
1:D:440:TRP:HZ2	1:E:277:TYR:HA	1.48	0.77
1:F:736:ARG:CG	1:F:736:ARG:HH11	1.99	0.77
1:G:239:GLN:NE2	1:G:240:ALA:H	1.82	0.77
1:G:320:ARG:NH2	1:G:597:LEU:HD11	2.00	0.77
1:G:333:LEU:HD13	1:G:592:ILE:HG21	1.66	0.77
1:G:868:ARG:O	1:G:868:ARG:HG3	1.83	0.77
1:H:241:LYS:HB2	1:H:254:LEU:HD22	1.65	0.77
1:H:277:TYR:CD1	1:H:277:TYR:C	2.58	0.77
1:H:697:PRO:HG2	1:H:698:TYR:CE2	2.20	0.77
1:I:731:TRP:HE1	1:I:888:LEU:HD21	1.49	0.77
1:I:787:TYR:CD1	1:I:787:TYR:C	2.58	0.77
1:J:114:LYS:NZ	1:J:116:TYR:C	2.38	0.77
1:J:803:ARG:HH11	1:J:803:ARG:HB2	1.46	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:821:PHE:HB3	1:L:237:GLY:HA3	1.66	0.77
1:K:517:TYR:CD1	1:K:847:PRO:HG3	2.19	0.77
1:K:819:LEU:HD23	1:K:819:LEU:C	2.05	0.77
1:L:531:ASN:O	1:L:713:TYR:HE1	1.68	0.77
4:M:166:LEU:O	4:M:170:VAL:HG23	1.85	0.77
4:M:194:LEU:CD2	6:U:208:TYR:HB3	2.15	0.77
5:Q:130:GLN:O	5:Q:134:LYS:HB2	1.84	0.77
5:R:94:SER:O	5:R:98:GLU:HG3	1.85	0.77
7:6:9:LEU:O	7:6:9:LEU:HG	1.82	0.77
1:A:214:ARG:HH22	1:A:241:LYS:HE2	1.50	0.76
1:B:66:LEU:HG	1:B:619:PHE:HE1	1.48	0.76
1:B:524:TRP:CD2	1:B:803:ARG:HG2	2.19	0.76
1:B:699:PHE:CE2	1:B:701:TYR:O	2.39	0.76
1:G:589:VAL:HG21	1:G:605:GLY:O	1.85	0.76
1:H:948:GLY:O	6:V:105:GLY:HA2	1.85	0.76
1:I:174:LEU:HD12	1:I:191:LYS:NZ	2.00	0.76
1:I:831:TYR:HB3	1:I:838:GLN:NE2	1.98	0.76
1:J:421:SER:HB2	1:J:423:TYR:CE1	2.20	0.76
1:J:480:TYR:OH	1:J:538:PRO:HD3	1.84	0.76
1:J:774:TYR:CE1	1:J:776:ILE:HD11	2.19	0.76
1:L:58:THR:O	1:L:58:THR:CG2	2.32	0.76
2:N:267:MET:HA	2:N:267:MET:CE	2.15	0.76
1:A:313:VAL:HG22	1:C:204:TRP:HE3	0.73	0.76
1:A:649:ALA:CB	1:A:920:PHE:O	2.33	0.76
1:A:724:MET:HB3	1:A:902:ASP:OD2	1.85	0.76
1:A:746:LYS:O	1:A:746:LYS:HG3	1.86	0.76
1:A:756:VAL:CG2	1:A:763:LYS:HA	2.14	0.76
1:B:57:THR:OG1	1:C:878:ASN:ND2	2.18	0.76
1:B:391:TYR:CD1	1:B:391:TYR:C	2.59	0.76
1:C:337:ASN:CG	1:C:361:ARG:O	2.24	0.76
1:D:181:GLU:O	1:D:181:GLU:CG	2.30	0.76
1:H:61:SER:HB2	1:I:734:ASN:ND2	1.98	0.76
1:H:159:VAL:HG11	1:I:841:PRO:HD2	1.66	0.76
1:I:510:ALA:HB2	1:I:832:LEU:O	1.85	0.76
1:I:827:GLY:HA2	1:I:839:GLY:CA	2.15	0.76
1:J:313:VAL:HG12	1:L:204:TRP:CE2	2.20	0.76
1:J:774:TYR:HD1	1:J:776:ILE:CD1	1.98	0.76
1:K:345:LEU:HD23	1:K:581:TYR:HD1	1.51	0.76
1:K:640:ASP:OD1	1:K:640:ASP:N	2.19	0.76
1:L:523:ARG:O	1:L:801:MET:HE2	1.84	0.76
5:P:12:LEU:HD21	5:P:17:LEU:CD2	2.13	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:162:THR:HB	1:B:212:GLY:N	1.99	0.76
1:B:162:THR:CB	1:B:212:GLY:H	1.97	0.76
1:E:345:LEU:CD1	1:E:581:TYR:HD1	1.97	0.76
1:E:543:LEU:CD2	1:E:594:GLN:HE22	1.98	0.76
1:E:649:ALA:CB	1:E:919:LEU:HD12	2.15	0.76
1:F:222:MET:HE2	1:F:308:SER:H	1.51	0.76
1:F:590:ASN:HB2	1:F:602:ARG:HG3	1.67	0.76
1:G:157:PHE:CZ	1:I:204:TRP:CH2	2.73	0.76
1:G:310:ILE:HA	1:I:205:GLN:HE22	1.48	0.76
1:H:450:ASN:HD22	1:I:155:LYS:C	1.87	0.76
1:H:520:ILE:O	1:H:520:ILE:HD12	1.86	0.76
1:I:399:GLU:HB3	1:I:523:ARG:CA	2.11	0.76
1:J:135:TRP:CH2	1:J:309:GLU:HB2	2.20	0.76
1:J:746:LYS:HG2	1:J:746:LYS:O	1.86	0.76
1:A:197:PRO:HG3	1:B:831:TYR:HE1	1.28	0.76
1:A:533:ASN:N	1:A:713:TYR:CE1	2.52	0.76
1:B:81:LYS:HA	1:B:584:ASN:HA	1.66	0.76
1:B:929:HIS:O	1:B:931:PRO:CD	2.31	0.76
1:C:324:ILE:HG22	1:C:325:GLY:N	2.00	0.76
1:E:931:PRO:HB3	6:U:159:ARG:HH12	1.51	0.76
1:F:361:ARG:CB	1:F:361:ARG:NH1	2.47	0.76
1:F:489:PRO:HG2	1:F:492:VAL:HG21	1.67	0.76
1:G:413:PRO:HD3	1:G:458:TYR:O	1.85	0.76
1:H:79:LEU:HD12	1:H:79:LEU:N	2.00	0.76
1:I:809:ILE:HG13	1:I:810:ASN:OD1	1.85	0.76
1:J:774:TYR:OH	1:J:795:PHE:HB3	1.86	0.76
1:J:926:VAL:HG11	1:J:940:TYR:HE2	1.44	0.76
1:K:440:TRP:CD1	1:K:440:TRP:C	2.57	0.76
1:L:591:MET:HE1	1:L:689:PRO:HG3	1.67	0.76
4:M:197:VAL:C	6:U:199:ASN:HD22	1.89	0.76
5:S:12:LEU:O	5:S:15:PRO:CD	2.33	0.76
5:S:117:ALA:O	5:S:121:GLN:HB2	1.85	0.76
6:U:204:SER:HB2	6:U:207:LEU:HB3	1.67	0.76
1:A:462:ILE:HB	1:B:411:CYS:HB3	1.67	0.76
1:B:122:ASN:O	1:B:125:ALA:HB3	1.84	0.76
1:B:195:PRO:HG2	1:C:823:HIS:CG	2.20	0.76
1:B:510:ALA:HA	1:B:832:LEU:O	1.84	0.76
1:C:69:VAL:CG2	1:C:70:PRO:CD	2.45	0.76
1:C:204:TRP:O	1:C:205:GLN:CG	2.32	0.76
1:C:734:ASN:C	1:C:736:ARG:HG2	2.06	0.76
1:C:896:ASN:HD22	6:U:21:ALA:HB1	1.50	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:13:MET:HE1	1:E:941:LEU:HB2	1.66	0.76
1:D:79:LEU:HD21	1:D:584:ASN:HD22	1.51	0.76
1:E:75:ALA:HB2	1:E:80:TYR:CE1	2.20	0.76
1:G:107:LEU:HG	1:G:108:ASP:N	1.99	0.76
1:G:514:VAL:HG23	1:G:518:ILE:HD13	1.66	0.76
1:G:783:VAL:HG23	1:G:795:PHE:CE2	2.20	0.76
1:K:46:ARG:HG2	1:L:642:SER:O	1.85	0.76
1:K:58:THR:HB	1:K:622:MET:O	1.86	0.76
1:K:732:PRO:HG3	1:K:743:PHE:HE1	1.45	0.76
1:L:377:ARG:HD3	1:L:388:VAL:CG2	2.15	0.76
1:L:525:SER:HB3	1:L:801:MET:HE3	1.68	0.76
2:N:420:ALA:HB1	2:N:463:THR:CG2	2.16	0.76
5:P:31:VAL:O	5:P:46:SER:CB	2.32	0.76
6:U:189:VAL:O	6:U:189:VAL:HG13	1.85	0.76
6:V:94:ASP:OD2	6:V:163:THR:HG21	1.85	0.76
7:8:9:LEU:C	7:8:11:PRO:CD	2.54	0.76
1:A:28:LEU:HD22	1:B:639:HIS:HD2	1.47	0.76
1:B:241:LYS:CE	1:B:286:GLU:CD	2.36	0.76
1:B:391:TYR:CD2	1:B:534:PRO:HB2	2.21	0.76
1:B:409:ASN:ND2	1:B:464:LEU:HB3	2.00	0.76
1:B:923:PHE:H	1:B:943:THR:HG22	1.48	0.76
1:C:67:ARG:HD2	1:C:616:TYR:CE1	2.21	0.76
1:C:604:ASP:O	1:C:605:GLY:O	2.03	0.76
1:D:401:HIS:CE1	1:F:544:ARG:HD3	2.20	0.76
1:E:417:THR:HG22	1:F:157:PHE:HZ	1.50	0.76
1:E:438:SER:OG	1:E:438:SER:O	2.03	0.76
1:G:121:TYR:CE1	1:G:293:PRO:HG2	2.20	0.76
1:G:214:ARG:NH2	1:G:241:LYS:NZ	2.32	0.76
1:H:603:VAL:HA	5:Q:40:PRO:CB	2.16	0.76
1:K:7:MET:CE	1:K:12:TYR:HD1	1.99	0.76
1:K:121:TYR:O	1:K:227:GLY:HA2	1.86	0.76
2:N:189:GLY:O	2:N:194:VAL:HG22	1.86	0.76
1:A:328:ASP:N	1:A:546:ARG:HH21	1.84	0.76
1:A:408:PRO:HB3	1:A:461:GLU:OE2	1.86	0.76
1:A:853:GLN:HB3	1:C:111:PRO:HB3	1.68	0.76
1:B:134:GLN:NE2	1:B:285:THR:CG2	2.47	0.76
1:B:709:ASP:HB3	1:B:711:THR:HG22	1.67	0.76
1:C:217:LYS:HE3	1:C:257:ASP:OD1	1.83	0.76
1:D:29:VAL:HG13	1:D:30:GLN:N	2.00	0.76
1:D:148:GLN:CG	1:D:149:GLN:H	1.98	0.76
1:E:84:PHE:HE2	1:E:613:VAL:O	1.67	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:460:MET:HE1	1:F:411:CYS:HB2	1.68	0.76
1:E:682:ARG:HH22	1:E:910:MET:HE3	1.50	0.76
1:F:217:LYS:HA	1:F:285:THR:CG2	2.16	0.76
1:F:602:ARG:CB	5:R:35:THR:HG21	2.08	0.76
1:F:740:PRO:CB	1:J:339:THR:CG2	2.64	0.76
1:F:808:GLU:CG	1:F:814:TYR:CZ	2.68	0.76
1:G:162:THR:OG1	1:G:193:PHE:CE1	2.38	0.76
1:H:25:SER:HB3	1:I:639:HIS:NE2	2.01	0.76
1:H:92:ARG:HH11	1:H:92:ARG:HG2	0.72	0.76
1:H:103:ILE:HG21	1:H:610:PHE:CD1	2.21	0.76
1:I:333:LEU:HG	1:I:333:LEU:O	1.85	0.76
1:I:682:ARG:NH2	1:I:907:VAL:CG2	2.48	0.76
1:I:756:VAL:HG22	1:I:757:ALA:H	1.51	0.76
1:J:469:TRP:CE2	1:J:473:LEU:HD22	2.20	0.76
1:J:613:VAL:O	1:J:613:VAL:HG13	1.84	0.76
1:K:831:TYR:HB3	1:K:838:GLN:NE2	2.01	0.76
1:K:885:LEU:CD1	1:K:923:PHE:CE2	2.69	0.76
1:L:155:LYS:NZ	1:L:259:ALA:HB3	2.00	0.76
1:L:204:TRP:CE3	1:L:415:ASN:ND2	2.52	0.76
1:L:759:CYS:SG	1:L:864:PHE:HB3	2.25	0.76
5:R:44:ALA:CB	5:R:51:TYR:HE1	1.78	0.76
1:A:445:ALA:H	1:B:152:ASP:CB	1.99	0.76
1:B:61:SER:HB3	1:C:734:ASN:CB	2.14	0.76
1:B:294:ASP:O	1:B:295:THR:HG23	1.86	0.76
1:B:306:ASN:O	1:B:307:SER:OG	2.03	0.76
1:B:397:ILE:HA	1:B:525:SER:HB3	1.67	0.76
1:B:531:ASN:O	1:B:713:TYR:CE1	2.38	0.76
1:C:78:TYR:CD2	1:C:695:PHE:CD1	2.72	0.76
1:C:295:THR:HG22	1:C:318:PRO:CA	2.13	0.76
1:C:731:TRP:CB	1:C:732:PRO:HD3	2.14	0.76
1:C:824:ASN:CA	1:C:844:ALA:HB1	2.10	0.76
1:D:472:PHE:HE1	1:D:539:ARG:NH1	1.84	0.76
1:E:78:TYR:CE2	1:E:695:PHE:CD2	2.74	0.76
1:E:443:ASP:O	1:E:444:ASP:CG	2.24	0.76
1:F:462:ILE:HG12	1:F:463:ASN:H	1.51	0.76
1:G:745:ILE:HD13	1:G:765:TRP:CE2	2.21	0.76
1:H:256:ILE:HG22	1:H:257:ASP:H	1.51	0.76
1:H:337:ASN:HD21	1:H:363:THR:H	1.33	0.76
1:J:31:PHE:CZ	1:K:630:LEU:HD22	2.21	0.76
1:J:836:MET:HE2	1:L:203:ASN:CA	2.12	0.76
1:K:291:GLU:OE2	1:L:854:THR:CG2	2.34	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:443:ASP:O	1:L:152:ASP:CA	2.33	0.76
1:L:294:ASP:HA	1:L:319:ASN:ND2	2.01	0.76
1:L:647:LEU:HA	7:8:4:ILE:HG21	1.68	0.76
4:M:185:TYR:HE2	4:M:201:GLN:HE21	1.34	0.76
4:M:388:TRP:CZ3	4:M:389:LEU:HD23	2.21	0.76
5:R:49:MET:HE2	5:R:50:THR:H	1.50	0.76
6:U:20:ALA:HB3	6:U:70:ASN:ND2	2.00	0.76
6:V:205:PRO:CA	6:V:208:TYR:CD1	2.66	0.76
7:6:3:ASP:C	7:6:4:ILE:CG1	2.53	0.76
1:A:158:GLY:HA3	1:C:452:ILE:HG23	0.80	0.76
1:A:684:LYS:HD3	1:A:912:GLU:OE1	1.86	0.76
1:A:839:GLY:H	1:C:198:GLN:HB3	1.48	0.76
1:B:193:PHE:CZ	1:B:198:GLN:CA	2.67	0.76
1:C:246:ASN:ND2	1:C:252:LYS:HG2	1.99	0.76
1:C:747:ARG:NH2	1:C:754:TYR:CG	2.54	0.76
1:D:154:THR:CG2	1:D:155:LYS:HG3	2.13	0.76
1:D:738:LEU:HD23	1:D:738:LEU:N	1.95	0.76
1:E:270:ALA:HB3	1:E:273:SER:OG	1.85	0.76
1:E:478:ALA:HA	1:E:514:VAL:CG1	2.15	0.76
1:F:286:GLU:OE1	1:F:286:GLU:N	2.18	0.76
1:F:667:ILE:CG1	1:F:901:LEU:O	2.34	0.76
1:G:67:ARG:HG3	1:G:616:TYR:CE2	2.21	0.76
1:G:296:HIS:CE1	1:G:317:MET:CG	2.69	0.76
1:I:189:ALA:CB	1:I:241:LYS:HZ3	1.99	0.76
1:I:575:LEU:HD12	1:I:635:ARG:HB2	1.68	0.76
1:I:819:LEU:N	1:I:820:PRO:CD	2.49	0.76
1:J:56:VAL:CG1	1:K:882:MET:HE2	2.02	0.76
1:J:454:LYS:O	1:K:160:ALA:O	2.03	0.76
1:L:660:ALA:HB1	5:Q:99:GLU:OE1	1.86	0.76
5:Q:45:ASN:HD22	5:Q:45:ASN:N	1.83	0.76
1:A:622:MET:HG3	1:A:627:ALA:HB2	1.68	0.76
1:A:882:MET:SD	1:C:56:VAL:HG11	2.25	0.76
1:B:440:TRP:HZ3	1:B:446:ILE:CG1	1.98	0.76
1:B:449:GLN:HE21	1:B:450:ASN:HD21	1.33	0.76
1:B:738:LEU:HD21	1:B:754:TYR:CE2	2.19	0.76
1:B:808:GLU:CG	1:B:814:TYR:CD2	2.69	0.76
1:C:81:LYS:HG3	1:C:582:GLU:OE1	1.85	0.76
1:C:734:ASN:C	1:C:736:ARG:CG	2.54	0.76
1:C:738:LEU:CB	1:C:754:TYR:CE2	2.69	0.76
1:E:101:PHE:HZ	1:E:581:TYR:CE2	2.04	0.76
1:E:191:LYS:O	1:E:192:THR:C	2.20	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:67:ARG:HD2	1:G:616:TYR:HE2	1.50	0.76
1:G:140:LYS:HG2	1:G:147:VAL:HG23	1.66	0.76
1:H:350:SER:HB3	1:L:90:ASP:HB2	1.68	0.76
1:I:267:SER:CB	1:I:276:GLU:C	2.52	0.76
1:I:370:LEU:HD13	1:I:646:TYR:CD2	2.20	0.76
1:J:533:ASN:CB	1:J:536:ASN:HD21	1.99	0.76
1:L:21:SER:HB3	7:9:11:PRO:CG	2.16	0.76
1:L:104:ARG:O	1:L:104:ARG:HD3	1.86	0.76
1:L:173:LEU:HD12	1:L:185:LYS:HZ3	1.49	0.76
1:L:619:PHE:H	1:L:619:PHE:HD1	1.33	0.76
4:M:8:PRO:CB	4:M:78:ALA:HB2	2.14	0.76
1:A:188:TYR:CE1	1:A:256:ILE:HB	2.21	0.75
1:A:458:TYR:C	1:C:837:ARG:HH12	1.90	0.75
1:B:421:SER:O	1:B:451:GLN:CB	2.34	0.75
1:C:74:GLU:O	1:C:74:GLU:CG	2.34	0.75
1:C:244:PRO:CD	1:C:253:ASP:O	2.34	0.75
1:D:756:VAL:CG1	1:D:763:LYS:HA	2.15	0.75
1:F:731:TRP:C	1:F:733:GLY:N	2.36	0.75
1:F:745:ILE:HG12	1:F:765:TRP:CD1	2.20	0.75
1:F:787:TYR:C	1:F:787:TYR:CD1	2.59	0.75
1:G:196:GLU:HG2	1:G:197:PRO:HD3	0.83	0.75
1:G:275:GLU:OE1	1:G:275:GLU:CA	2.31	0.75
1:G:451:GLN:O	1:G:452:ILE:HG13	1.86	0.75
1:G:524:TRP:HH2	1:G:863:LYS:HG2	1.50	0.75
1:J:159:VAL:HG13	1:L:453:CYS:SG	2.25	0.75
1:L:345:LEU:HD13	1:L:345:LEU:O	1.86	0.75
1:L:682:ARG:HH22	1:L:910:MET:HB2	1.51	0.75
2:N:120:ASN:HB2	2:N:168:PHE:CD2	2.21	0.75
2:N:163:LEU:HD21	2:N:177:MET:HB3	1.65	0.75
4:M:336:ALA:HB1	4:M:338:PRO:HD2	1.66	0.75
5:S:8:PHE:CE2	5:S:9:GLU:CB	2.69	0.75
7:1:22:TRP:CH2	7:1:25:ILE:HD13	2.19	0.75
7:2:28:SER:O	7:2:29:GLN:CB	2.24	0.75
1:A:158:GLY:H	1:C:452:ILE:HA	1.51	0.75
1:A:699:PHE:HZ	1:A:705:ILE:HD11	1.52	0.75
1:B:188:TYR:CD1	1:B:256:ILE:HD12	2.21	0.75
1:B:575:LEU:HB3	1:B:576:PRO:CD	2.17	0.75
1:B:728:SER:OG	1:B:730:SER:HB2	1.85	0.75
1:B:749:VAL:HG12	1:B:750:ASP:OD1	1.87	0.75
1:C:422:THR:HB	1:C:448:ARG:O	1.85	0.75
1:C:842:TYR:CD2	1:C:843:PRO:O	2.38	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:492:VAL:O	1:E:492:VAL:HG23	1.85	0.75
1:F:33:ARG:CD	7:4:12:ARG:HB3	2.15	0.75
1:F:714:LEU:HD11	1:F:910:MET:HE3	1.66	0.75
1:G:380:TYR:CE1	1:G:387:ALA:HB1	2.20	0.75
1:H:445:ALA:O	1:H:449:GLN:HB2	1.85	0.75
1:I:55:ASP:CB	1:I:626:THR:HG21	2.13	0.75
1:I:262:ASP:OD1	1:I:263:VAL:O	2.04	0.75
1:J:51:ALA:HB2	1:K:883:GLY:CA	2.16	0.75
1:K:239:GLN:HE21	1:K:240:ALA:H	1.35	0.75
1:L:760:ASN:O	1:L:760:ASN:ND2	2.19	0.75
2:N:406:SER:O	2:N:496:ARG:NH1	2.18	0.75
5:R:31:VAL:O	5:R:31:VAL:CG1	2.33	0.75
1:A:846:PHE:HB3	1:A:847:PRO:HD3	1.68	0.75
1:B:170:GLN:HB3	1:B:185:LYS:HD2	1.69	0.75
1:B:180:ALA:HB1	1:B:182:ASN:ND2	2.00	0.75
1:B:831:TYR:HE2	1:B:832:LEU:CD1	1.99	0.75
1:C:192:THR:HG23	1:C:193:PHE:CD1	2.21	0.75
1:C:344:VAL:HG12	1:C:353:ASN:HD21	1.52	0.75
1:D:140:LYS:HA	1:D:147:VAL:HG13	1.67	0.75
1:D:203:ASN:HB3	1:D:204:TRP:CE3	2.21	0.75
1:D:639:HIS:CD2	1:F:25:SER:H	2.04	0.75
1:E:462:ILE:HG23	1:F:411:CYS:HG	1.51	0.75
1:E:754:TYR:O	1:E:762:THR:HA	1.86	0.75
1:E:922:VAL:CG1	1:E:944:PRO:HG2	2.10	0.75
1:F:640:ASP:HB3	1:F:929:HIS:CB	2.16	0.75
1:F:785:GLU:HG2	1:F:788:LYS:HB2	1.67	0.75
1:G:721:VAL:O	1:G:721:VAL:HG13	1.85	0.75
1:H:67:ARG:NH1	1:I:752:GLU:OE1	2.11	0.75
1:I:78:TYR:CE1	1:I:79:LEU:HG	2.21	0.75
1:I:189:ALA:HB1	1:I:241:LYS:HZ3	1.50	0.75
1:I:416:GLY:O	1:I:457:VAL:CG1	2.34	0.75
1:J:839:GLY:HA2	1:L:198:GLN:CD	2.06	0.75
1:K:155:LYS:O	1:K:157:PHE:N	2.19	0.75
1:L:7:MET:CB	1:L:8:PRO:HD2	2.16	0.75
1:A:152:ASP:HA	1:A:154:THR:CG2	2.15	0.75
1:C:94:LEU:O	1:C:573:LEU:HD12	1.86	0.75
1:C:729:VAL:O	1:C:729:VAL:HG13	1.85	0.75
1:D:83:ARG:CB	1:D:582:GLU:CB	2.38	0.75
1:D:85:THR:HG23	1:D:85:THR:O	1.85	0.75
1:D:244:PRO:HD2	1:D:253:ASP:C	2.07	0.75
1:D:323:TYR:H	1:D:596:SER:HB3	1.52	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:432:ASN:OD1	1:D:432:ASN:O	2.03	0.75
1:E:428:ILE:CD1	1:F:169:ASN:ND2	2.47	0.75
1:F:103:ILE:HG12	1:F:613:VAL:HG13	1.68	0.75
1:F:392:ASP:HB3	1:F:395:VAL:HG22	1.69	0.75
1:F:430:ASN:OD1	1:F:430:ASN:O	2.04	0.75
1:G:161:ALA:HB1	1:G:198:GLN:CG	2.17	0.75
1:G:204:TRP:HZ2	1:G:415:ASN:HB3	1.46	0.75
1:H:456:ASN:H	1:H:456:ASN:ND2	1.84	0.75
1:H:808:GLU:HB3	1:H:814:TYR:CD2	2.21	0.75
1:I:173:LEU:HB2	1:I:185:LYS:HD3	1.67	0.75
1:I:464:LEU:HD12	1:I:465:GLN:N	2.00	0.75
1:I:682:ARG:CZ	1:I:907:VAL:HG21	2.16	0.75
1:J:66:LEU:CG	1:J:619:PHE:HE1	1.98	0.75
1:K:149:GLN:CG	1:K:150:GLU:N	2.45	0.75
1:L:79:LEU:HD12	1:L:79:LEU:N	2.02	0.75
1:L:723:ILE:HG12	1:L:903:MET:HB3	1.67	0.75
7:4:18:PHE:O	7:4:18:PHE:CG	2.37	0.75
7:7:9:LEU:CD1	7:7:10:ALA:H	1.98	0.75
1:A:204:TRP:HE3	1:B:313:VAL:CG1	1.85	0.75
1:A:674:ALA:HB2	1:C:10:TRP:CZ2	2.21	0.75
1:B:260:TYR:N	1:B:260:TYR:CD1	2.53	0.75
1:B:635:ARG:CD	1:B:931:PRO:O	2.34	0.75
1:C:134:GLN:HE21	1:C:217:LYS:HA	1.52	0.75
1:D:310:ILE:H	1:D:310:ILE:CD1	1.99	0.75
1:D:395:VAL:HG21	1:D:537:HIS:NE2	2.02	0.75
1:F:656:ILE:HG22	1:F:663:VAL:CG1	2.16	0.75
1:F:705:ILE:CD1	1:F:708:LEU:HG	2.16	0.75
1:F:785:GLU:HG2	1:F:788:LYS:CB	2.17	0.75
1:F:949:ASN:ND2	1:H:733:GLY:HA2	2.00	0.75
1:G:443:ASP:CA	1:H:150:GLU:HG2	2.15	0.75
1:G:540:ASN:HD22	1:G:543:LEU:HB3	1.49	0.75
1:H:346:ALA:HB2	1:H:353:ASN:CB	2.15	0.75
1:H:760:ASN:CG	5:R:54:VAL:HG21	2.06	0.75
1:I:31:PHE:HD2	1:I:32:ALA:N	1.83	0.75
1:J:199:VAL:HG12	1:J:200:GLY:H	1.45	0.75
1:J:277:TYR:CG	1:J:277:TYR:HB3	1.30	0.75
1:L:79:LEU:HD12	1:L:79:LEU:H	1.51	0.75
1:L:131:ASN:CB	1:L:132:PRO:HD2	2.12	0.75
1:L:778:TYR:HE1	1:L:880:MET:SD	2.09	0.75
4:M:298:LEU:CD1	6:U:57:GLU:CD	2.55	0.75
5:Q:46:SER:O	5:Q:51:TYR:HE1	1.68	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:91:ASN:O	1:C:627:ALA:HB1	1.87	0.75
1:C:364:GLU:OE2	1:C:364:GLU:CA	2.34	0.75
1:C:673:ALA:CB	6:U:16:GLN:OE1	2.35	0.75
1:D:22:GLU:CG	7:4:18:PHE:CE2	2.59	0.75
1:E:78:TYR:HE2	1:E:695:PHE:CD2	2.04	0.75
1:E:192:THR:CG2	1:E:284:TYR:CE1	2.62	0.75
1:E:241:LYS:CD	1:E:254:LEU:HD11	2.16	0.75
1:E:408:PRO:HG2	1:E:410:TYR:OH	1.86	0.75
1:E:422:THR:O	1:F:264:PRO:CD	2.35	0.75
1:E:423:TYR:O	1:E:449:GLN:HB3	1.87	0.75
1:E:440:TRP:CD1	1:E:441:GLU:HG3	2.21	0.75
1:F:497:ASN:O	1:F:500:THR:HG22	1.87	0.75
1:F:950:ALA:N	1:H:893:LEU:HD12	2.01	0.75
1:G:16:ALA:CA	1:G:48:PRO:HB3	2.17	0.75
1:I:470:LYS:HE2	1:I:515:ASP:OD1	1.84	0.75
1:J:328:ASP:OD1	1:J:329:ASN:HB2	1.86	0.75
1:J:426:VAL:HG22	1:K:260:TYR:HB2	1.69	0.75
1:J:663:VAL:HA	5:P:12:LEU:HD22	1.60	0.75
1:J:774:TYR:OH	1:J:795:PHE:CB	2.34	0.75
1:J:886:THR:HG23	1:J:888:LEU:H	1.52	0.75
1:K:415:ASN:OD1	1:K:417:THR:C	2.25	0.75
1:K:921:GLU:OE1	1:K:921:GLU:HA	1.79	0.75
1:K:949:ASN:N	1:K:949:ASN:ND2	2.30	0.75
1:L:544:ARG:HH11	1:L:544:ARG:CB	1.99	0.75
1:L:637:ASP:C	1:L:637:ASP:OD2	2.25	0.75
5:P:14:SER:CB	5:P:15:PRO:CD	2.45	0.75
1:A:193:PHE:CZ	1:A:213:GLY:CA	2.69	0.75
1:A:377:ARG:CG	1:A:388:VAL:HG11	2.16	0.75
1:A:412:PHE:CZ	1:C:828:PHE:HB3	2.21	0.75
1:B:201:GLU:CG	1:B:202:GLU:N	2.50	0.75
1:C:537:HIS:CD2	1:C:539:ARG:HB2	2.20	0.75
1:C:731:TRP:HZ2	1:C:875:PHE:CD1	2.05	0.75
1:D:463:ASN:ND2	1:D:466:ALA:H	1.83	0.75
1:E:837:ARG:HE	1:F:456:ASN:ND2	1.83	0.75
1:F:396:ARG:HH11	1:F:396:ARG:HG2	1.52	0.75
1:F:665:ILE:HD11	1:F:918:LEU:HD22	1.69	0.75
1:F:785:GLU:HG3	1:F:786:GLY:N	2.02	0.75
1:H:103:ILE:CG2	1:H:610:PHE:CD1	2.70	0.75
1:H:659:LYS:CB	1:H:659:LYS:HZ3	2.00	0.75
1:I:364:GLU:OE2	1:I:364:GLU:CA	2.26	0.75
1:J:239:GLN:NE2	1:J:240:ALA:H	1.85	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:319:ASN:HD22	1:J:319:ASN:C	1.88	0.75
1:J:521:GLY:O	1:L:548:MET:HG2	1.87	0.75
1:K:241:LYS:CE	1:K:256:ILE:CD1	2.65	0.75
1:K:682:ARG:NH1	1:K:907:VAL:CG1	2.50	0.75
1:K:747:ARG:NH1	1:K:754:TYR:CG	2.54	0.75
1:L:83:ARG:HG3	1:L:582:GLU:HG2	1.66	0.75
1:A:428:ILE:O	1:A:428:ILE:HG12	1.84	0.75
1:C:328:ASP:OD1	1:C:329:ASN:HB2	1.87	0.75
1:C:364:GLU:CG	1:C:708:LEU:HD11	2.17	0.75
1:C:637:ASP:HB2	1:C:929:HIS:HE1	1.52	0.75
1:E:424:GLN:O	1:F:261:PHE:HA	1.86	0.75
1:F:277:TYR:CE1	1:F:279:ALA:CB	2.63	0.75
1:G:417:THR:HB	1:H:157:PHE:CZ	2.18	0.75
1:G:695:PHE:HZ	5:R:76:ARG:HD2	1.52	0.75
1:H:94:LEU:HD21	1:H:617:ALA:HB1	1.67	0.75
1:H:514:VAL:HG22	1:H:518:ILE:HD13	1.68	0.75
1:I:243:LYS:CB	1:I:244:PRO:HD2	2.11	0.75
1:I:416:GLY:O	1:I:457:VAL:HG11	1.87	0.75
1:I:444:ASP:OD1	1:I:445:ALA:N	2.19	0.75
1:I:713:TYR:HA	1:I:867:ASP:HB2	1.69	0.75
1:J:78:TYR:CE1	1:J:79:LEU:HG	2.22	0.75
1:J:297:VAL:HA	1:J:316:SER:HB3	1.69	0.75
1:J:425:GLY:HA2	1:K:261:PHE:HA	1.68	0.75
1:J:774:TYR:HB3	1:J:788:LYS:HE2	1.68	0.75
1:K:911:ASP:OD2	1:K:911:ASP:C	2.23	0.75
1:L:90:ASP:OD2	1:L:933:ARG:NH1	2.20	0.75
1:L:524:TRP:CD2	1:L:803:ARG:HG2	2.21	0.75
1:L:543:LEU:HD13	1:L:543:LEU:O	1.87	0.75
5:Q:10:GLY:CA	5:Q:13:PHE:CD2	2.60	0.75
5:S:42:LEU:N	5:S:43:PRO:CD	2.49	0.75
1:A:409:ASN:ND2	1:A:464:LEU:HB2	2.02	0.75
1:B:139:GLU:CG	1:B:152:ASP:OD2	2.35	0.75
1:B:494:LEU:HD21	1:B:506:GLY:HA3	1.68	0.75
1:B:722:SER:O	1:B:903:MET:HA	1.86	0.75
1:C:229:PHE:CD2	1:C:229:PHE:C	2.60	0.75
1:D:19:ASP:HB2	1:D:47:ASN:CB	2.14	0.75
1:D:198:GLN:NE2	1:E:837:ARG:O	2.20	0.75
1:D:276:GLU:O	1:F:440:TRP:HZ3	1.63	0.75
1:E:155:LYS:HZ1	1:E:283:LEU:HB3	1.52	0.75
1:E:168:THR:HG21	1:E:185:LYS:CE	2.17	0.75
1:E:444:ASP:CA	1:F:152:ASP:HA	2.17	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:716:HIS:CE1	1:E:717:THR:HG23	2.21	0.75
1:F:96:MET:HB2	1:F:572:LEU:O	1.87	0.75
1:F:437:GLU:O	1:F:437:GLU:HG3	0.86	0.75
1:G:410:TYR:OH	1:I:836:MET:HA	1.86	0.75
1:H:377:ARG:HH11	1:H:377:ARG:HG2	1.50	0.75
1:J:20:ALA:HB3	1:J:47:ASN:HD22	1.51	0.75
1:J:167:ILE:HD11	1:J:282:ILE:HB	1.68	0.75
1:K:252:LYS:O	1:K:252:LYS:HG3	1.85	0.75
1:K:531:ASN:O	1:K:713:TYR:CE1	2.40	0.75
1:K:681:THR:HG22	1:K:682:ARG:N	2.02	0.75
1:L:175:GLY:O	1:L:184:LYS:HB3	1.86	0.75
2:N:324:LYS:HB3	3:O:6:ARG:NH2	2.01	0.75
5:Q:126:ARG:CG	5:Q:129:GLN:NE2	2.50	0.75
5:R:101:LEU:O	5:R:101:LEU:HD23	1.87	0.75
6:U:213:ILE:CG1	6:U:216:PHE:HB2	2.16	0.75
1:A:379:ARG:NH1	1:B:796:ARG:NH1	2.34	0.74
1:A:737:LEU:CD1	1:A:740:PRO:HA	2.16	0.74
1:B:135:TRP:CH2	1:B:309:GLU:CB	2.55	0.74
1:B:404:GLU:O	1:B:404:GLU:HG3	1.87	0.74
1:C:29:VAL:HG23	7:2:9:LEU:HD11	1.68	0.74
1:C:204:TRP:HE1	1:C:415:ASN:CG	1.90	0.74
1:C:600:ASP:OD2	1:C:603:VAL:HG22	1.87	0.74
1:D:738:LEU:H	1:D:738:LEU:CD2	1.99	0.74
1:E:446:ILE:HG12	1:E:447:SER:N	2.01	0.74
1:E:454:LYS:O	1:F:161:ALA:HB2	1.87	0.74
1:E:474:TYR:C	1:E:478:ALA:HB3	2.07	0.74
1:F:748:SER:O	5:P:55:GLY:HA3	1.86	0.74
1:F:916:LEU:HD22	1:F:917:TYR:N	2.02	0.74
1:H:203:ASN:CB	1:I:836:MET:SD	2.73	0.74
1:H:942:ARG:HB3	1:H:946:SER:CA	2.11	0.74
1:I:529:MET:O	1:I:529:MET:CG	2.34	0.74
5:P:49:MET:SD	5:P:49:MET:O	2.44	0.74
5:S:41:VAL:HG12	5:S:41:VAL:O	1.87	0.74
5:S:62:THR:HG22	5:S:62:THR:O	1.85	0.74
1:A:103:ILE:CG2	1:A:610:PHE:HD2	2.00	0.74
1:A:269:PRO:HB3	1:A:274:GLY:O	1.87	0.74
1:B:131:ASN:CB	1:B:225:CYS:HB2	2.17	0.74
1:B:687:GLU:CG	1:B:701:TYR:CD2	2.70	0.74
1:C:126:PRO:O	1:C:128:GLY:N	2.19	0.74
1:C:481:LEU:CD2	1:C:529:MET:HE3	2.16	0.74
1:C:499:ASN:O	1:C:600:ASP:HB3	1.87	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:277:TYR:CD1	1:D:278:LYS:N	2.56	0.74
1:D:297:VAL:CG1	1:D:297:VAL:CA	2.65	0.74
1:D:825:ASN:HB2	1:F:122:ASN:HA	1.69	0.74
1:E:229:PHE:CZ	1:F:849:PRO:HD3	2.22	0.74
1:E:731:TRP:H	1:E:732:PRO:HD3	1.41	0.74
1:F:686:LYS:NZ	1:F:686:LYS:HB3	2.02	0.74
1:I:539:ARG:HH11	1:I:539:ARG:HG2	1.52	0.74
1:I:797:ASN:HD22	1:I:797:ASN:N	1.84	0.74
1:J:10:TRP:HA	1:J:15:ILE:HG22	1.68	0.74
1:J:153:VAL:CG1	1:L:449:GLN:CG	2.66	0.74
1:K:397:ILE:HD12	1:K:523:ARG:HH11	1.50	0.74
1:L:241:LYS:CE	1:L:286:GLU:OE1	2.34	0.74
1:L:665:ILE:O	1:L:665:ILE:HG13	1.86	0.74
1:L:769:GLN:HE22	1:L:872:ARG:H	1.34	0.74
1:L:808:GLU:HG2	1:L:814:TYR:OH	1.85	0.74
2:N:138:ARG:HH21	2:N:154:LEU:CD2	2.00	0.74
2:N:174:ILE:CD1	2:N:231:PRO:HB3	2.17	0.74
5:S:34:SER:C	5:S:43:PRO:HG2	2.07	0.74
1:B:460:MET:CB	1:C:413:PRO:HA	2.16	0.74
1:B:576:PRO:HD2	1:B:635:ARG:HH21	1.52	0.74
1:C:101:PHE:HA	1:C:614:ASN:O	1.86	0.74
1:D:13:MET:CE	1:E:941:LEU:HB2	2.16	0.74
1:D:191:LYS:O	1:D:191:LYS:CG	2.35	0.74
1:D:409:ASN:HD21	1:D:464:LEU:H	1.35	0.74
1:D:815:LYS:HD2	1:F:235:GLU:H	1.50	0.74
1:E:453:CYS:HB3	1:F:159:VAL:CG1	2.14	0.74
1:F:301:PRO:HG2	1:F:302:GLY:H	1.53	0.74
1:F:539:ARG:HH11	1:F:539:ARG:HG2	1.52	0.74
1:F:929:HIS:O	1:F:929:HIS:CG	2.40	0.74
1:G:319:ASN:ND2	1:G:319:ASN:H	1.83	0.74
1:G:435:ALA:O	1:H:277:TYR:CZ	2.40	0.74
1:G:609:ARG:NH1	5:R:66:ALA:HB2	2.01	0.74
1:H:38:TYR:CE1	1:I:56:VAL:HG23	2.21	0.74
1:I:298:VAL:HB	1:I:317:MET:HG2	1.68	0.74
1:I:524:TRP:NE1	1:I:803:ARG:HD3	2.01	0.74
1:I:619:PHE:HD1	1:I:619:PHE:H	1.32	0.74
1:I:631:GLU:O	1:I:635:ARG:HB3	1.87	0.74
1:J:663:VAL:HG23	5:P:17:LEU:CD1	2.17	0.74
1:K:687:GLU:O	1:K:699:PHE:CE1	2.40	0.74
1:K:910:MET:HE2	1:K:914:THR:CG2	2.17	0.74
1:L:60:ARG:NH1	6:V:108:LEU:HB3	2.02	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:822:GLN:CD	1:L:846:PHE:CD1	2.60	0.74
2:N:202:LYS:CE	2:N:204:ASP:OD1	2.33	0.74
4:M:185:TYR:CD2	4:M:201:GLN:CG	2.70	0.74
5:P:12:LEU:HD11	5:P:17:LEU:HD21	1.61	0.74
5:S:14:SER:N	5:S:15:PRO:CD	2.50	0.74
6:U:10:MET:HE3	6:U:194:PRO:HB3	1.69	0.74
1:A:25:SER:HB3	1:B:639:HIS:CE1	2.22	0.74
1:A:364:GLU:OE1	1:A:565:LYS:HE3	1.87	0.74
1:A:822:GLN:OE1	1:A:846:PHE:HE1	1.65	0.74
1:B:200:GLY:O	1:B:206:GLU:CG	2.34	0.74
1:C:214:ARG:HH22	1:C:241:LYS:CE	1.99	0.74
1:C:241:LYS:HZ2	1:C:256:ILE:HG13	1.51	0.74
1:D:167:ILE:HG22	1:D:172:LEU:HA	1.68	0.74
1:D:271:GLY:HA3	1:F:436:GLU:OE2	1.87	0.74
1:D:370:LEU:HD21	1:D:570:LYS:HE3	1.69	0.74
1:D:432:ASN:OD1	1:D:432:ASN:C	2.21	0.74
1:E:560:ILE:O	1:E:560:ILE:HG13	1.86	0.74
1:F:509:VAL:O	1:F:509:VAL:HG23	1.87	0.74
1:F:614:ASN:OD1	1:F:614:ASN:N	2.18	0.74
1:F:863:LYS:O	1:F:863:LYS:HG3	1.87	0.74
1:F:894:TYR:OH	1:J:949:ASN:OD1	2.05	0.74
1:G:445:ALA:HB1	1:G:449:GLN:HG2	0.78	0.74
1:I:137:THR:CG2	1:I:138:LYS:H	2.01	0.74
1:I:168:THR:HG21	1:I:185:LYS:CE	2.16	0.74
1:I:732:PRO:HB3	1:I:743:PHE:CZ	2.22	0.74
1:I:771:LEU:HD13	1:I:777:GLY:HA3	1.69	0.74
1:J:279:ALA:HB2	1:L:426:VAL:CG2	1.99	0.74
1:L:78:TYR:HD2	5:Q:76:ARG:HH22	1.32	0.74
1:L:361:ARG:HH11	1:L:361:ARG:CB	2.00	0.74
1:L:598:GLY:O	1:L:701:TYR:O	2.05	0.74
4:M:273:PHE:CE1	4:M:290:SER:HB2	2.21	0.74
5:P:14:SER:OG	5:P:15:PRO:HD2	1.87	0.74
5:P:35:THR:HA	5:P:43:PRO:HG2	1.69	0.74
1:A:756:VAL:HG23	1:A:763:LYS:HE3	1.69	0.74
1:A:922:VAL:HG12	1:A:944:PRO:HB2	1.67	0.74
1:B:93:VAL:HG13	1:B:575:LEU:CD2	2.13	0.74
1:B:231:ARG:HG2	1:B:232:PRO:HD2	1.70	0.74
1:B:324:ILE:HD11	1:B:595:SER:HB2	1.68	0.74
1:C:199:VAL:O	1:C:201:GLU:N	2.17	0.74
1:C:645:ASP:OD2	1:C:647:LEU:O	2.05	0.74
1:C:842:TYR:CD2	1:C:843:PRO:CD	2.70	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:423:TYR:O	1:D:450:ASN:ND2	2.16	0.74
1:D:649:ALA:HA	1:D:922:VAL:HG22	1.67	0.74
1:F:403:VAL:HG22	1:F:465:GLN:HB2	1.65	0.74
1:F:670:ARG:HG3	1:F:671:ASN:N	2.01	0.74
1:F:789:ASP:OD2	1:F:789:ASP:O	2.05	0.74
1:G:46:ARG:CZ	1:G:46:ARG:HB2	2.17	0.74
1:J:51:ALA:CB	1:K:883:GLY:HA3	2.17	0.74
1:J:836:MET:HE1	1:L:200:GLY:O	1.87	0.74
1:K:804:GLN:OE1	1:K:860:THR:HG22	1.87	0.74
1:K:893:LEU:HD13	1:K:893:LEU:O	1.87	0.74
1:L:773:HIS:CD2	1:L:794:PHE:HB2	2.22	0.74
4:M:155:GLY:O	4:M:156:GLN:CD	2.25	0.74
1:A:665:ILE:HD13	1:A:918:LEU:HD12	1.68	0.74
1:C:114:LYS:HE2	1:C:319:ASN:O	1.87	0.74
1:D:202:GLU:HB2	1:D:206:GLU:CG	2.18	0.74
1:G:204:TRP:CE2	1:G:415:ASN:HB3	2.22	0.74
1:G:543:LEU:HA	1:G:546:ARG:HH11	1.50	0.74
1:H:78:TYR:CD2	1:H:695:PHE:HB3	2.23	0.74
1:H:191:LYS:O	1:H:193:PHE:N	2.20	0.74
1:H:481:LEU:O	1:H:482:PRO:C	2.19	0.74
1:H:906:GLU:OE1	5:R:24:TRP:NE1	2.21	0.74
1:I:155:LYS:HG3	1:I:261:PHE:HZ	1.52	0.74
1:I:417:THR:HG23	1:I:457:VAL:HG13	0.75	0.74
1:I:665:ILE:HD11	1:I:903:MET:CG	2.16	0.74
1:J:66:LEU:CD1	1:J:619:PHE:CD1	2.58	0.74
1:J:469:TRP:CZ2	1:J:473:LEU:HD22	2.23	0.74
1:J:714:LEU:HD21	1:J:910:MET:SD	2.27	0.74
1:K:38:TYR:OH	7:8:24:GLU:CD	2.25	0.74
1:K:323:TYR:O	1:K:595:SER:CB	2.35	0.74
1:K:361:ARG:NH1	1:K:361:ARG:HG2	2.01	0.74
1:K:902:ASP:N	1:K:902:ASP:OD2	2.18	0.74
1:L:241:LYS:O	1:L:255:ASP:HB2	1.86	0.74
5:S:39:ARG:O	5:S:43:PRO:HG3	1.87	0.74
7:4:24:GLU:HG3	7:4:25:ILE:N	2.00	0.74
1:A:198:GLN:CG	1:B:838:GLN:CA	2.62	0.74
1:B:324:ILE:HG13	1:B:595:SER:CA	2.13	0.74
1:B:679:SER:OG	1:B:919:LEU:CB	2.30	0.74
1:C:150:GLU:OE1	1:C:150:GLU:HA	1.87	0.74
1:C:731:TRP:CE2	1:C:875:PHE:CE1	2.76	0.74
1:C:733:GLY:O	1:C:736:ARG:CB	2.36	0.74
1:C:747:ARG:HH22	1:C:754:TYR:HD1	1.27	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:429:THR:CG2	1:D:439:GLU:CD	2.54	0.74
1:E:99:THR:HG22	1:E:617:ALA:CB	2.18	0.74
1:E:417:THR:CG2	1:F:157:PHE:CZ	2.70	0.74
1:E:623:ALA:HB3	1:E:626:THR:HG22	1.68	0.74
1:F:397:ILE:CD1	1:F:523:ARG:HH22	2.00	0.74
1:F:688:THR:OG1	1:F:689:PRO:HD2	1.88	0.74
1:G:358:LEU:HD22	1:G:942:ARG:HD2	1.68	0.74
1:H:545:TYR:CE1	1:I:523:ARG:NH1	2.55	0.74
1:I:19:ASP:OD2	1:I:47:ASN:HB3	1.87	0.74
1:I:173:LEU:CB	1:I:185:LYS:HD3	2.16	0.74
1:I:222:MET:HG2	1:I:307:SER:HB3	1.68	0.74
1:J:405:ASP:OD1	1:J:405:ASP:C	2.26	0.74
1:J:757:ALA:C	1:J:758:GLN:HG2	2.07	0.74
1:J:908:ASP:HB2	1:J:909:PRO:HD2	1.68	0.74
1:K:315:GLN:NE2	1:K:836:MET:HG3	2.02	0.74
1:K:419:THR:HG23	1:K:451:GLN:HB3	1.70	0.74
1:L:52:PRO:HB2	1:L:56:VAL:CG2	2.16	0.74
1:L:113:PHE:CE2	1:L:115:PRO:HD3	2.23	0.74
1:L:364:GLU:HA	1:L:364:GLU:OE1	1.87	0.74
1:L:720:LYS:CE	1:L:742:GLU:OE2	2.35	0.74
1:A:28:LEU:HD22	1:B:639:HIS:NE2	2.03	0.74
1:A:364:GLU:OE1	1:A:364:GLU:HA	1.86	0.74
1:B:21:SER:OG	7:1:11:PRO:HB3	1.88	0.74
1:B:188:TYR:CA	1:B:192:THR:HG23	2.10	0.74
1:B:348:GLN:HE21	1:B:348:GLN:CA	2.01	0.74
1:B:412:PHE:HB3	1:B:413:PRO:HD2	1.70	0.74
1:C:130:PRO:CB	1:C:312:LEU:HD11	2.17	0.74
1:C:243:LYS:HD3	1:C:243:LYS:N	1.98	0.74
1:D:429:THR:HG23	1:D:439:GLU:CD	2.07	0.74
1:E:630:LEU:O	1:E:630:LEU:CD1	2.35	0.74
1:E:842:TYR:CG	1:E:843:PRO:HD2	2.22	0.74
1:G:649:ALA:HB3	1:G:919:LEU:CD1	2.17	0.74
1:G:816:ALA:O	1:I:235:GLU:HB3	1.87	0.74
1:H:345:LEU:HD22	1:H:581:TYR:HB2	1.69	0.74
1:H:801:MET:CE	1:H:865:LEU:HB3	2.17	0.74
1:I:941:LEU:HD12	8:Z:6:UNK:CB	2.18	0.74
1:J:449:GLN:HG3	1:K:153:VAL:HG22	1.68	0.74
1:J:663:VAL:HG12	1:J:905:PHE:O	1.87	0.74
1:J:906:GLU:OE1	5:Q:24:TRP:CE2	2.41	0.74
1:L:806:VAL:HG12	1:L:856:VAL:CG2	2.18	0.74
4:M:329:LEU:HD12	4:M:347:ARG:HH22	1.53	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:16:TYR:O	5:P:18:THR:N	2.21	0.74
1:A:214:ARG:CG	1:B:842:TYR:CZ	2.71	0.74
1:B:362:ASN:ND2	1:B:365:LEU:HB3	2.03	0.74
1:B:368:GLN:HG2	1:B:709:ASP:O	1.87	0.74
1:B:620:PHE:HA	1:C:778:TYR:HE2	1.52	0.74
1:C:21:SER:CB	7:2:11:PRO:CG	2.66	0.74
1:C:462:ILE:HG12	1:C:463:ASN:N	2.02	0.74
1:D:295:THR:HG22	1:D:318:PRO:HA	1.70	0.74
1:E:440:TRP:CZ2	1:F:276:GLU:OE2	2.41	0.74
1:E:685:THR:CG2	1:E:913:PRO:O	2.35	0.74
1:F:721:VAL:O	1:F:742:GLU:HB2	1.88	0.74
1:F:791:MET:HG2	1:F:792:TYR:CD1	2.23	0.74
1:G:323:TYR:HB2	1:G:543:LEU:HD21	1.68	0.74
1:G:450:ASN:ND2	1:G:450:ASN:H	1.85	0.74
1:H:167:ILE:HD13	1:H:282:ILE:HG22	1.70	0.74
1:I:159:VAL:O	1:I:159:VAL:HG12	1.87	0.74
1:I:246:ASN:HD22	1:I:251:PRO:N	1.86	0.74
1:J:199:VAL:CG1	1:J:200:GLY:N	2.48	0.74
1:K:671:ASN:O	1:K:671:ASN:OD1	2.05	0.74
1:K:738:LEU:HD22	1:K:754:TYR:CE2	2.21	0.74
1:L:103:ILE:HG21	1:L:610:PHE:CD2	2.22	0.74
2:N:186:LEU:HD12	2:N:190:ARG:NH1	2.01	0.74
5:P:36:VAL:CG2	5:P:43:PRO:CG	2.66	0.74
1:B:831:TYR:HB2	1:B:838:GLN:HE21	1.07	0.74
1:E:444:ASP:OD1	1:F:154:THR:HG22	1.88	0.74
1:E:552:ASN:HD22	1:F:522:ALA:HB2	1.52	0.74
1:F:241:LYS:HG2	1:F:286:GLU:HG3	0.76	0.74
1:F:687:GLU:HB2	1:F:701:TYR:CD2	2.22	0.74
1:F:704:SER:O	1:F:706:PRO:HD3	1.88	0.74
1:F:706:PRO:HA	1:F:711:THR:HG23	1.69	0.74
1:G:103:ILE:CD1	1:G:560:ILE:HG13	2.17	0.74
1:G:783:VAL:CG2	1:G:784:PRO:HD2	2.17	0.74
1:G:839:GLY:H	1:I:198:GLN:HB2	1.53	0.74
1:H:102:ASP:O	1:H:613:VAL:HA	1.88	0.74
1:H:627:ALA:O	1:H:631:GLU:HB2	1.87	0.74
1:I:136:GLU:N	1:I:136:GLU:OE1	2.20	0.74
1:J:540:ASN:HD22	1:J:543:LEU:HB3	1.50	0.74
1:J:588:ASP:O	1:J:592:ILE:HG12	1.88	0.74
1:J:670:ARG:HG3	1:J:671:ASN:N	2.02	0.74
1:K:161:ALA:O	1:K:198:GLN:HG2	1.85	0.74
1:K:195:PRO:O	1:L:839:GLY:HA2	1.85	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:756:VAL:HG21	1:K:766:PHE:CB	2.18	0.74
2:N:493:ASP:OD1	2:N:497:ARG:O	2.06	0.74
5:R:50:THR:O	5:R:50:THR:CG2	2.34	0.74
7:8:9:LEU:O	7:8:9:LEU:HG	1.86	0.74
1:A:910:MET:HE2	1:A:914:THR:HG21	1.69	0.73
1:C:683:LEU:CD2	1:C:706:PRO:HB2	2.17	0.73
1:D:199:VAL:O	1:D:200:GLY:O	2.06	0.73
1:E:136:GLU:HA	1:E:151:LYS:HA	1.68	0.73
1:F:365:LEU:HD13	1:F:710:GLY:HA2	1.69	0.73
1:F:635:ARG:NH2	1:F:932:HIS:C	2.41	0.73
1:F:760:ASN:CG	5:P:54:VAL:HG11	2.09	0.73
1:G:161:ALA:CB	1:G:198:GLN:CD	2.56	0.73
1:I:168:THR:HG23	1:I:185:LYS:NZ	2.03	0.73
1:I:531:ASN:HB2	1:I:714:LEU:HD11	1.70	0.73
1:J:46:ARG:HH11	1:K:925:VAL:CG1	2.01	0.73
1:J:191:LYS:HA	1:J:194:GLN:HG3	1.69	0.73
1:J:691:LEU:O	1:J:691:LEU:HG	1.85	0.73
1:K:269:PRO:HG2	1:K:273:SER:CB	2.18	0.73
1:K:445:ALA:CB	1:L:153:VAL:HG23	2.13	0.73
1:K:818:THR:HG22	1:K:820:PRO:CD	2.18	0.73
1:L:155:LYS:HE2	1:L:285:THR:HG21	1.70	0.73
1:L:489:PRO:HG3	1:L:508:VAL:CG1	2.18	0.73
2:N:254:ILE:CG2	2:N:354:TRP:CZ2	2.71	0.73
6:U:13:TYR:HD1	6:U:188:PHE:CG	2.03	0.73
1:A:642:SER:HB3	1:A:927:ARG:HG3	1.69	0.73
1:A:756:VAL:CG2	1:A:763:LYS:HE2	2.14	0.73
1:B:46:ARG:NH2	1:C:925:VAL:HG11	2.01	0.73
1:B:326:PHE:CE2	1:B:550:LEU:HD21	2.23	0.73
1:B:337:ASN:N	1:B:337:ASN:ND2	2.33	0.73
1:B:358:LEU:CD2	1:B:942:ARG:CZ	2.66	0.73
1:B:635:ARG:HH22	1:B:933:ARG:HG2	1.54	0.73
1:C:121:TYR:HB2	1:C:227:GLY:CA	2.18	0.73
1:C:437:GLU:O	1:C:437:GLU:CG	2.32	0.73
1:D:235:GLU:CG	1:E:815:LYS:HB3	2.17	0.73
1:D:644:ASN:CB	1:D:925:VAL:HG12	2.18	0.73
1:E:165:ILE:O	1:E:210:PHE:CE1	2.41	0.73
1:F:155:LYS:CG	1:F:261:PHE:HZ	1.96	0.73
1:G:198:GLN:HG2	1:G:199:VAL:HG12	1.69	0.73
1:H:442:LYS:HG3	1:I:150:GLU:HG3	1.69	0.73
1:I:53:THR:H	7:5:25:ILE:HD11	1.53	0.73
1:I:103:ILE:CG2	1:I:613:VAL:CG2	2.50	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:827:GLY:CA	1:I:839:GLY:C	2.57	0.73
1:J:97:ALA:HB2	1:J:570:LYS:O	1.87	0.73
7:7:26:GLY:O	7:7:27:THR:C	2.27	0.73
1:A:50:VAL:HG13	1:B:890:GLN:NE2	2.03	0.73
1:A:445:ALA:HA	1:B:152:ASP:HB3	1.69	0.73
1:A:575:LEU:H	1:A:930:GLN:HE22	1.35	0.73
1:C:400:ASN:HB2	1:C:469:TRP:CZ2	2.23	0.73
1:C:479:LEU:HD23	1:C:509:VAL:CG2	2.18	0.73
1:C:721:VAL:HG12	1:C:905:PHE:CD1	2.23	0.73
1:D:134:GLN:CB	1:D:155:LYS:HG2	2.12	0.73
1:D:161:ALA:O	1:D:198:GLN:HA	1.88	0.73
1:D:161:ALA:HB3	1:D:193:PHE:CZ	2.22	0.73
1:F:165:ILE:O	1:F:210:PHE:CE1	2.40	0.73
1:F:392:ASP:OD1	1:F:393:PRO:HD2	1.89	0.73
1:F:760:ASN:ND2	5:P:54:VAL:HG21	2.02	0.73
1:G:46:ARG:HB2	1:G:46:ARG:NH1	2.04	0.73
1:G:276:GLU:O	1:I:440:TRP:HH2	1.72	0.73
1:G:319:ASN:N	1:G:319:ASN:ND2	2.35	0.73
1:G:413:PRO:HA	1:I:460:MET:HB2	1.71	0.73
1:G:917:TYR:HE2	1:G:919:LEU:CB	2.01	0.73
1:H:24:LEU:CD1	7:5:9:LEU:HD22	2.18	0.73
1:H:134:GLN:CG	1:H:154:THR:O	2.36	0.73
1:H:192:THR:HG21	1:H:214:ARG:NH1	2.02	0.73
1:H:265:GLY:H	1:H:276:GLU:CD	1.91	0.73
1:H:327:ARG:CZ	1:H:594:GLN:HB3	2.18	0.73
1:H:353:ASN:ND2	1:H:355:VAL:H	1.84	0.73
1:H:495:PRO:HG3	1:H:502:GLU:HB3	1.70	0.73
1:H:657:PRO:CD	5:Q:12:LEU:HD22	2.10	0.73
1:I:168:THR:HG21	1:I:185:LYS:HZ2	0.85	0.73
1:I:643:PHE:N	1:I:643:PHE:CD1	2.52	0.73
1:J:721:VAL:HA	1:J:904:THR:O	1.87	0.73
1:L:470:LYS:HG3	1:L:516:ALA:HB2	1.68	0.73
1:L:812:LYS:HD2	1:L:812:LYS:N	2.03	0.73
7:2:25:ILE:CG2	7:2:25:ILE:O	2.35	0.73
1:A:193:PHE:HZ	1:A:214:ARG:CA	2.02	0.73
1:A:405:ASP:O	1:A:405:ASP:CG	2.26	0.73
1:A:422:THR:HG22	1:A:448:ARG:O	1.88	0.73
1:A:811:TYR:CE1	1:A:856:VAL:HB	2.23	0.73
1:B:462:ILE:HB	1:C:411:CYS:SG	2.28	0.73
1:C:250:GLN:HE21	1:C:251:PRO:HD2	0.91	0.73
1:C:893:LEU:HD21	6:U:227:ASP:CA	2.13	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:191:LYS:O	1:D:192:THR:C	2.21	0.73
1:E:47:ASN:CB	1:E:48:PRO:HD2	2.19	0.73
1:E:199:VAL:O	1:E:199:VAL:HG12	1.87	0.73
1:F:33:ARG:HD2	7:4:12:ARG:HB2	1.69	0.73
1:G:263:VAL:CG2	1:I:423:TYR:HE2	2.02	0.73
1:G:359:GLN:O	1:G:359:GLN:NE2	2.22	0.73
1:G:724:MET:N	1:G:902:ASP:O	2.20	0.73
1:H:106:VAL:HG11	5:S:59:LEU:CD2	2.17	0.73
1:H:444:ASP:HA	1:I:152:ASP:C	2.09	0.73
1:H:663:VAL:O	1:H:663:VAL:HG13	1.87	0.73
1:J:634:LEU:O	1:J:634:LEU:HD23	1.88	0.73
1:J:664:PRO:HD2	5:P:12:LEU:CD2	2.18	0.73
1:K:66:LEU:HD12	1:K:619:PHE:CE1	2.23	0.73
1:K:218:LYS:C	1:K:218:LYS:HD2	2.08	0.73
1:K:729:VAL:O	1:K:730:SER:O	2.05	0.73
1:K:927:ARG:HB2	1:K:939:VAL:CG2	2.15	0.73
1:L:292:THR:OG1	1:L:292:THR:O	2.05	0.73
1:L:489:PRO:HD3	1:L:508:VAL:HG12	1.70	0.73
1:L:659:LYS:HB2	1:L:659:LYS:HZ2	1.52	0.73
1:L:908:ASP:HB2	1:L:909:PRO:HD2	1.70	0.73
1:A:198:GLN:NE2	1:B:838:GLN:N	2.35	0.73
1:A:326:PHE:HD2	1:A:550:LEU:HD11	1.53	0.73
1:C:7:MET:O	1:C:7:MET:HG3	1.86	0.73
1:C:66:LEU:CG	1:C:619:PHE:HE1	2.00	0.73
1:C:121:TYR:CE1	1:C:293:PRO:HG2	2.23	0.73
1:C:573:LEU:HB3	1:C:641:GLN:HE22	1.50	0.73
1:C:747:ARG:HH21	1:C:754:TYR:HB2	1.53	0.73
1:D:718:PHE:CB	1:D:745:ILE:HG21	2.18	0.73
1:E:441:GLU:CA	1:E:446:ILE:HG21	2.19	0.73
1:F:242:PHE:CZ	1:F:289:ASN:CG	2.61	0.73
1:G:390:SER:OG	1:G:541:ALA:HB3	1.89	0.73
1:G:752:GLU:O	1:G:754:TYR:CD1	2.41	0.73
1:G:886:THR:HG23	1:G:889:GLY:CA	2.18	0.73
1:H:358:LEU:HD13	1:H:947:ALA:HB2	1.68	0.73
1:H:808:GLU:CD	1:H:808:GLU:H	1.89	0.73
1:H:924:ASP:HA	1:H:941:LEU:O	1.88	0.73
1:I:217:LYS:NZ	1:I:286:GLU:HA	2.02	0.73
1:I:665:ILE:CD1	1:I:918:LEU:HD22	2.19	0.73
1:J:49:THR:HG23	1:K:884:ALA:HB3	1.68	0.73
1:J:392:ASP:OD2	1:J:395:VAL:HG12	1.88	0.73
1:J:655:PRO:HG3	5:R:9:GLU:OE1	1.88	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:664:PRO:CG	5:Q:19:THR:CG2	2.65	0.73
1:J:892:MET:HA	1:J:892:MET:CE	2.18	0.73
1:K:222:MET:CG	1:K:307:SER:OG	2.36	0.73
1:K:863:LYS:HB3	1:K:863:LYS:HZ3	1.51	0.73
5:Q:13:PHE:CG	5:Q:14:SER:N	2.57	0.73
5:Q:14:SER:OG	5:R:12:LEU:CD1	2.34	0.73
5:R:39:ARG:CG	5:R:41:VAL:CG2	2.65	0.73
1:A:178:GLU:O	1:A:178:GLU:HG3	1.88	0.73
1:A:377:ARG:HE	1:A:388:VAL:CG1	2.01	0.73
1:A:746:LYS:HB2	1:A:760:ASN:HB2	1.70	0.73
1:B:119:THR:HG22	1:B:226:TYR:CZ	2.24	0.73
1:B:159:VAL:HB	1:C:840:GLN:HG2	1.71	0.73
1:B:188:TYR:CE1	1:B:256:ILE:HD12	2.23	0.73
1:B:460:MET:HE1	1:C:460:MET:HG2	1.71	0.73
1:C:649:ALA:CB	1:C:919:LEU:HD12	2.19	0.73
1:D:523:ARG:O	1:D:523:ARG:HG3	1.89	0.73
1:E:77:THR:HB	5:P:76:ARG:CZ	2.18	0.73
1:E:474:TYR:O	1:E:478:ALA:HB3	1.87	0.73
1:E:682:ARG:CZ	1:E:910:MET:HE1	2.18	0.73
1:F:138:LYS:HG2	1:F:147:VAL:HG12	1.71	0.73
1:F:540:ASN:ND2	1:F:543:LEU:HB3	2.03	0.73
1:F:602:ARG:HB3	5:R:35:THR:CB	2.17	0.73
1:F:806:VAL:CG1	1:F:856:VAL:HG11	2.19	0.73
1:F:909:PRO:CG	5:P:48:THR:O	2.26	0.73
1:H:269:PRO:CB	1:H:277:TYR:HE2	2.01	0.73
1:H:571:ASN:ND2	1:H:571:ASN:H	1.86	0.73
1:H:846:PHE:CD2	1:H:847:PRO:CD	2.70	0.73
1:J:412:PHE:N	1:J:412:PHE:CD1	2.56	0.73
1:J:762:THR:CG2	1:J:765:TRP:H	2.02	0.73
1:K:82:ALA:HB2	1:K:613:VAL:HG21	1.69	0.73
4:M:185:TYR:CD2	4:M:201:GLN:CB	2.71	0.73
4:M:388:TRP:CH2	4:M:389:LEU:CD2	2.71	0.73
5:Q:39:ARG:HG2	5:Q:41:VAL:HG23	1.69	0.73
1:A:310:ILE:HA	1:C:205:GLN:NE2	2.03	0.73
1:A:564:GLN:HE22	1:A:569:ILE:CG2	2.00	0.73
1:B:773:HIS:CD2	1:B:794:PHE:HB2	2.23	0.73
1:C:135:TRP:CH2	1:C:309:GLU:HB3	2.23	0.73
1:C:255:ASP:O	1:C:286:GLU:CG	2.35	0.73
1:D:198:GLN:HE22	1:F:456:ASN:ND2	1.86	0.73
1:D:638:THR:HG23	1:D:639:HIS:CD2	2.24	0.73
1:D:756:VAL:HB	1:F:561:GLN:HE22	1.53	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:172:LEU:CD1	1:E:193:PHE:HZ	2.02	0.73
1:E:224:PRO:HB3	1:E:314:GLN:O	1.88	0.73
1:F:230:ALA:O	1:F:239:GLN:NE2	2.21	0.73
1:G:729:VAL:HG22	1:G:730:SER:N	2.03	0.73
1:G:730:SER:O	1:G:733:GLY:CA	2.36	0.73
1:H:297:VAL:HA	1:H:316:SER:HB3	1.70	0.73
1:H:442:LYS:HG2	1:I:150:GLU:OE1	1.88	0.73
1:H:524:TRP:HA	1:H:524:TRP:CE3	2.24	0.73
1:H:756:VAL:CG2	1:H:763:LYS:HG3	2.18	0.73
1:H:859:VAL:CG2	5:R:56:ASN:HB3	2.19	0.73
1:I:363:THR:HA	1:I:366:SER:HB3	1.69	0.73
1:J:201:GLU:OE1	1:K:299:TYR:CE1	2.41	0.73
1:J:219:ASP:OD1	1:J:219:ASP:N	2.21	0.73
1:J:474:TYR:O	1:J:478:ALA:CB	2.36	0.73
1:L:720:LYS:CD	1:L:742:GLU:OE2	2.36	0.73
1:L:747:ARG:NH1	1:L:754:TYR:CD1	2.56	0.73
2:N:240:GLY:HA3	2:N:267:MET:HE2	1.68	0.73
1:B:239:GLN:CG	1:C:842:TYR:HE2	2.02	0.73
1:B:345:LEU:HB3	1:B:354:ALA:HB3	1.69	0.73
1:B:405:ASP:HB3	1:B:465:GLN:CG	2.19	0.73
1:C:167:ILE:CD1	1:C:280:ASP:OD2	2.37	0.73
1:C:278:LYS:O	1:C:279:ALA:C	2.26	0.73
1:C:573:LEU:O	1:C:573:LEU:HG	1.88	0.73
1:E:194:GLN:HE22	1:F:821:PHE:HD2	1.36	0.73
1:F:347:GLY:O	1:F:350:SER:C	2.26	0.73
1:G:102:ASP:CG	1:G:616:TYR:HE1	1.91	0.73
1:G:192:THR:HG21	1:G:214:ARG:NH2	2.02	0.73
1:G:204:TRP:NE1	1:G:415:ASN:OD1	2.22	0.73
1:G:489:PRO:HD3	1:G:508:VAL:HG12	1.69	0.73
1:H:353:ASN:HD22	1:H:354:ALA:N	1.87	0.73
1:H:364:GLU:OE2	1:H:364:GLU:CA	2.30	0.73
1:I:619:PHE:N	1:I:619:PHE:CD1	2.54	0.73
1:I:938:ALA:O	1:I:939:VAL:HG13	1.88	0.73
1:J:456:ASN:N	1:J:456:ASN:ND2	2.33	0.73
1:K:243:LYS:HB3	1:K:244:PRO:CD	2.19	0.73
1:K:269:PRO:HG2	1:K:273:SER:HB3	1.71	0.73
1:K:361:ARG:HG2	1:K:361:ARG:HH11	1.52	0.73
1:K:662:ASN:CA	1:K:906:GLU:HA	2.18	0.73
1:L:76:THR:CG2	1:L:77:THR:H	2.01	0.73
1:L:156:THR:HG23	1:L:157:PHE:N	2.00	0.73
1:L:529:MET:O	1:L:529:MET:CG	2.36	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:672:TRP:CZ2	1:L:901:LEU:HD23	2.24	0.73
1:L:682:ARG:HH22	1:L:910:MET:CB	2.01	0.73
5:P:35:THR:HG23	5:P:40:PRO:CA	2.14	0.73
1:A:95:ASP:CB	1:A:573:LEU:HD12	2.18	0.73
1:A:103:ILE:CG2	1:A:610:PHE:CD2	2.72	0.73
1:A:391:TYR:CE1	1:A:396:ARG:HB2	2.22	0.73
1:A:723:ILE:HD12	1:A:731:TRP:CZ3	2.24	0.73
1:A:758:GLN:C	1:A:862:LYS:HE3	2.08	0.73
1:B:13:MET:HB3	1:C:925:VAL:HG21	1.71	0.73
1:B:451:GLN:O	1:B:452:ILE:HD13	1.86	0.73
1:C:210:PHE:CD2	1:C:280:ASP:OD1	2.40	0.73
1:C:570:LYS:NZ	1:C:570:LYS:HB3	2.04	0.73
1:E:428:ILE:CG2	1:F:169:ASN:HD22	1.78	0.73
1:F:192:THR:C	1:F:193:PHE:CD1	2.62	0.73
1:F:489:PRO:O	1:F:492:VAL:CG2	2.36	0.73
1:G:427:LYS:HD3	1:G:439:GLU:HG2	1.68	0.73
1:G:438:SER:O	1:G:440:TRP:HD1	1.72	0.73
1:I:448:ARG:CG	1:I:449:GLN:H	2.02	0.73
1:K:66:LEU:CD1	1:K:619:PHE:HE1	2.02	0.73
4:M:177:GLU:C	4:M:178:VAL:HG23	2.10	0.73
1:A:269:PRO:CA	1:A:274:GLY:O	2.36	0.73
1:A:851:ILE:HD13	1:C:116:TYR:HE2	1.53	0.73
1:A:922:VAL:O	1:A:922:VAL:HG23	1.87	0.73
1:B:155:LYS:HD3	1:B:283:LEU:HD13	1.70	0.73
1:B:315:GLN:CD	1:B:835:THR:HG23	2.09	0.73
1:B:380:TYR:CE2	1:B:387:ALA:CB	2.70	0.73
1:B:644:ASN:ND2	1:B:644:ASN:N	2.30	0.73
1:C:56:VAL:CG2	7:1:24:GLU:CG	2.54	0.73
1:D:428:ILE:HD11	1:E:169:ASN:HB2	1.71	0.73
1:E:18:GLN:O	1:E:48:PRO:HG3	1.89	0.73
1:E:19:ASP:HA	1:E:48:PRO:CD	2.19	0.73
1:E:239:GLN:HE21	1:E:240:ALA:H	1.36	0.73
1:E:358:LEU:CD2	1:E:947:ALA:HB2	2.19	0.73
1:E:854:THR:O	1:E:854:THR:CG2	2.35	0.73
1:G:495:PRO:CB	5:R:85:SER:O	2.35	0.73
1:G:869:VAL:HG22	1:G:870:MET:N	2.03	0.73
1:H:148:GLN:HG3	1:H:150:GLU:OE2	1.86	0.73
1:I:640:ASP:HB2	1:I:928:VAL:O	1.89	0.73
1:J:281:ILE:HD11	1:L:452:ILE:HG21	1.71	0.73
1:K:392:ASP:HB3	1:K:395:VAL:HG12	1.70	0.73
1:L:138:LYS:HG2	1:L:149:GLN:HB3	1.69	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:746:LYS:HG3	1:L:760:ASN:OD1	1.89	0.73
2:N:83:VAL:HG13	2:N:93:ALA:O	1.89	0.73
2:N:220:MET:HB2	2:N:221:PRO:HD3	1.70	0.73
1:C:724:MET:HA	1:C:729:VAL:CB	2.19	0.72
1:E:799:GLN:HB2	1:E:865:LEU:O	1.89	0.72
1:F:102:ASP:O	1:F:102:ASP:CG	2.27	0.72
1:F:115:PRO:CA	1:F:323:TYR:CE1	2.72	0.72
1:G:151:LYS:O	1:G:154:THR:CG2	2.37	0.72
1:G:194:GLN:HB3	1:G:197:PRO:HG2	1.56	0.72
1:H:278:LYS:C	1:H:280:ASP:OD1	2.28	0.72
1:H:833:ALA:O	1:H:835:THR:N	2.21	0.72
1:I:689:PRO:HG2	1:I:691:LEU:HD21	1.71	0.72
1:I:734:ASN:ND2	1:I:736:ARG:HH12	1.87	0.72
1:I:831:TYR:HB3	1:I:838:GLN:HE22	1.53	0.72
1:J:635:ARG:HD3	1:J:931:PRO:O	1.89	0.72
1:K:377:ARG:NH1	1:K:388:VAL:HB	2.04	0.72
1:K:456:ASN:HD21	1:L:200:GLY:CA	2.00	0.72
1:L:258:PHE:HE2	1:L:284:TYR:CE2	2.07	0.72
1:L:260:TYR:CD2	1:L:282:ILE:CG2	2.72	0.72
1:L:294:ASP:C	1:L:319:ASN:HD22	1.93	0.72
5:Q:126:ARG:CA	5:Q:129:GLN:HE21	2.01	0.72
5:S:16:TYR:C	5:S:18:THR:H	1.91	0.72
1:A:295:THR:HG22	1:A:318:PRO:HA	1.70	0.72
1:A:729:VAL:O	1:A:730:SER:C	2.28	0.72
1:A:928:VAL:HA	1:A:937:GLU:O	1.89	0.72
1:B:297:VAL:HG21	1:B:300:LYS:HE2	1.71	0.72
1:B:409:ASN:O	1:B:461:GLU:CB	2.36	0.72
1:C:134:GLN:HB3	1:C:155:LYS:NZ	2.04	0.72
1:D:19:ASP:HB3	7:4:20:GLY:HA2	1.70	0.72
1:D:429:THR:HG23	1:D:439:GLU:HG2	1.70	0.72
1:E:811:TYR:CE2	1:E:813:ASP:O	2.42	0.72
1:F:684:LYS:CE	1:F:912:GLU:OE1	2.37	0.72
1:H:568:ALA:CB	1:H:926:VAL:HG21	2.19	0.72
1:H:569:ILE:HG22	1:H:569:ILE:O	1.87	0.72
1:I:107:LEU:HG	1:I:108:ASP:N	2.03	0.72
1:J:276:GLU:CB	1:L:440:TRP:CZ3	2.70	0.72
1:K:173:LEU:HD11	1:K:183:GLY:HA3	1.72	0.72
1:L:84:PHE:CE2	1:L:614:ASN:HA	2.22	0.72
1:L:489:PRO:CG	1:L:508:VAL:HG12	2.19	0.72
1:L:533:ASN:HD21	1:L:535:PHE:HB2	1.53	0.72
5:Q:12:LEU:C	5:Q:15:PRO:HD2	2.08	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Q:14:SER:OG	5:R:15:PRO:HG2	1.89	0.72
7:7:5:ASN:O	7:7:6:PHE:HB3	1.87	0.72
1:A:269:PRO:CB	1:A:274:GLY:O	2.37	0.72
1:B:36:ASP:OD2	1:B:40:SER:HA	1.88	0.72
1:B:531:ASN:CB	1:B:714:LEU:HD13	2.18	0.72
1:C:196:GLU:HB2	1:C:197:PRO:CD	2.16	0.72
1:D:825:ASN:HD21	1:F:124:LEU:HG	1.54	0.72
1:D:923:PHE:O	1:D:942:ARG:HA	1.89	0.72
1:E:575:LEU:H	1:E:575:LEU:CD2	2.03	0.72
1:F:652:MET:HE3	5:R:20:ARG:HD3	1.71	0.72
1:G:276:GLU:CB	1:I:440:TRP:CH2	2.71	0.72
1:G:866:CYS:SG	1:G:869:VAL:CG1	2.78	0.72
1:H:444:ASP:N	1:I:152:ASP:HA	2.04	0.72
1:J:414:LEU:HD11	1:K:837:ARG:HG2	1.71	0.72
1:J:636:ASN:ND2	1:J:638:THR:H	1.88	0.72
1:J:676:ARG:HG2	1:J:676:ARG:NH1	1.99	0.72
1:K:63:ARG:CG	1:K:66:LEU:HD21	2.10	0.72
1:K:440:TRP:CD2	1:L:276:GLU:OE2	2.42	0.72
1:K:706:PRO:HA	1:K:711:THR:HG23	1.72	0.72
1:L:134:GLN:CD	1:L:154:THR:HG22	2.08	0.72
1:L:199:VAL:HG13	1:L:206:GLU:CD	2.08	0.72
1:L:498:THR:HA	1:L:503:TYR:CD2	2.23	0.72
4:M:246:VAL:CG1	4:M:249:ASN:CB	2.66	0.72
5:R:44:ALA:HB3	5:R:51:TYR:HH	1.53	0.72
7:1:18:PHE:CE1	7:1:22:TRP:HZ3	2.07	0.72
7:3:22:TRP:HZ3	7:3:25:ILE:CD1	2.00	0.72
1:B:127:LYS:HZ1	1:C:405:ASP:CG	1.92	0.72
1:B:384:TRP:HA	1:B:384:TRP:HE3	1.54	0.72
1:C:526:LEU:C	1:C:528:PRO:HD2	2.10	0.72
1:E:162:THR:CG2	1:E:193:PHE:CE2	2.73	0.72
1:E:582:GLU:C	1:E:582:GLU:OE1	2.27	0.72
1:G:723:ILE:O	1:G:730:SER:CA	2.36	0.72
1:G:776:ILE:CG2	1:G:776:ILE:HA	2.18	0.72
1:I:297:VAL:CG1	1:I:299:TYR:O	2.36	0.72
1:K:162:THR:HG23	1:K:163:GLY:N	1.89	0.72
1:L:170:GLN:CD	1:L:185:LYS:HG3	2.08	0.72
1:L:462:ILE:HG12	1:L:463:ASN:N	2.03	0.72
1:L:476:ASN:O	1:L:480:TYR:CE2	2.43	0.72
1:L:705:ILE:O	1:L:709:ASP:HB3	1.89	0.72
2:N:326:VAL:CA	3:O:7:VAL:HB	2.19	0.72
4:M:349:MET:HA	4:M:356:ALA:CB	2.19	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:R:72:MET:HG2	5:R:72:MET:O	1.90	0.72
6:U:213:ILE:HD11	6:U:216:PHE:CD1	2.23	0.72
1:A:358:LEU:HD21	1:A:947:ALA:CB	2.20	0.72
1:A:377:ARG:NE	1:A:388:VAL:CG1	2.51	0.72
1:A:720:LYS:HB2	1:A:906:GLU:CD	2.04	0.72
1:A:783:VAL:HG13	1:A:784:PRO:CD	2.08	0.72
1:C:746:LYS:HA	1:C:761:MET:HA	1.71	0.72
1:C:892:MET:O	1:C:893:LEU:C	2.23	0.72
1:D:205:GLN:HA	1:D:205:GLN:OE1	1.87	0.72
1:E:113:PHE:CE2	1:E:115:PRO:HD3	2.24	0.72
1:E:267:SER:HB2	1:E:268:PRO:HD2	1.72	0.72
1:F:161:ALA:HB3	1:F:198:GLN:NE2	2.04	0.72
1:G:157:PHE:CE2	1:I:415:ASN:ND2	2.52	0.72
1:H:135:TRP:N	1:H:154:THR:HG22	2.03	0.72
1:H:194:GLN:O	1:H:197:PRO:HD3	1.90	0.72
1:H:277:TYR:CE1	1:H:278:LYS:HB2	2.23	0.72
1:I:55:ASP:O	1:I:623:ALA:HB3	1.90	0.72
1:I:720:LYS:NZ	5:S:24:TRP:HB2	2.05	0.72
1:J:201:GLU:O	1:K:836:MET:HE2	1.90	0.72
1:J:685:THR:CG2	1:J:913:PRO:HB2	2.15	0.72
1:J:951:THR:O	1:J:952:THR:OG1	2.06	0.72
1:K:603:VAL:HG13	1:K:604:ASP:OD2	1.90	0.72
1:L:384:TRP:CE3	1:L:384:TRP:HA	2.25	0.72
2:N:186:LEU:HD13	2:N:190:ARG:HH11	1.54	0.72
4:M:199:LEU:HD11	6:U:1:MET:HG2	1.72	0.72
5:Q:3:GLY:CA	5:R:1:MET:SD	2.72	0.72
1:A:640:ASP:HB3	1:A:928:VAL:O	1.88	0.72
1:A:725:PHE:CE2	1:A:901:LEU:HD13	2.25	0.72
1:B:589:VAL:HB	1:B:607:SER:CB	2.19	0.72
1:B:682:ARG:NH1	1:B:910:MET:HE2	2.03	0.72
1:D:756:VAL:HG11	1:D:763:LYS:HA	1.71	0.72
1:E:196:GLU:HG2	1:E:197:PRO:HD3	1.71	0.72
1:E:236:LYS:O	1:E:236:LYS:HG3	1.89	0.72
1:G:94:LEU:HD23	1:G:619:PHE:CE1	2.24	0.72
1:G:196:GLU:HG3	1:H:831:TYR:CD1	2.24	0.72
1:G:198:GLN:HG2	1:G:199:VAL:N	2.03	0.72
1:G:241:LYS:HZ2	1:G:256:ILE:HG23	1.52	0.72
1:G:600:ASP:OD2	1:G:700:VAL:C	2.28	0.72
1:H:20:ALA:CA	7:5:9:LEU:CD1	2.67	0.72
1:H:295:THR:HG23	1:H:318:PRO:HA	1.72	0.72
1:H:774:TYR:O	1:H:775:ASN:HB2	1.87	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:644:ASN:N	1:I:644:ASN:ND2	2.35	0.72
1:I:759:CYS:HB2	1:I:864:PHE:HB3	1.72	0.72
1:J:160:ALA:HB1	1:J:213:GLY:N	2.05	0.72
1:J:634:LEU:O	1:J:634:LEU:CD2	2.38	0.72
1:K:676:ARG:O	1:K:875:PHE:N	2.22	0.72
1:L:90:ASP:O	1:L:92:ARG:HG2	1.89	0.72
1:L:684:LYS:HA	1:L:914:THR:HG22	1.72	0.72
2:N:336:SER:OG	2:N:449:ASP:CB	2.38	0.72
4:M:215:PRO:HD2	4:M:251:TYR:HE1	1.54	0.72
7:1:9:LEU:C	7:1:11:PRO:HD3	2.09	0.72
7:4:16:ARG:O	7:4:18:PHE:N	2.18	0.72
1:A:699:PHE:CZ	1:A:705:ILE:HD11	2.25	0.72
1:B:208:GLU:O	1:B:211:TYR:CE1	2.43	0.72
1:B:419:THR:O	1:B:419:THR:HG23	1.90	0.72
1:B:589:VAL:HG13	1:B:590:ASN:H	1.53	0.72
1:B:732:PRO:HG3	1:B:743:PHE:CE1	2.25	0.72
1:C:225:CYS:O	1:C:225:CYS:SG	2.47	0.72
1:D:520:ILE:N	1:D:520:ILE:HD12	2.04	0.72
1:D:823:HIS:HB2	1:F:196:GLU:OE2	1.88	0.72
1:D:870:MET:HG2	1:D:870:MET:O	1.89	0.72
1:F:286:GLU:OE1	1:F:286:GLU:C	2.27	0.72
1:F:740:PRO:O	1:J:339:THR:HG22	1.86	0.72
1:G:736:ARG:O	1:I:64:LEU:HB2	1.89	0.72
1:H:79:LEU:N	1:H:79:LEU:CD1	2.52	0.72
1:I:189:ALA:HA	1:I:241:LYS:NZ	2.05	0.72
1:I:514:VAL:O	1:I:514:VAL:HG12	1.89	0.72
1:J:31:PHE:CE2	1:K:630:LEU:HD22	2.25	0.72
1:J:319:ASN:O	1:J:319:ASN:ND2	2.21	0.72
1:K:81:LYS:HA	1:K:584:ASN:HA	1.70	0.72
1:K:155:LYS:CD	1:K:283:LEU:HD13	2.18	0.72
1:K:246:ASN:ND2	1:K:247:GLU:C	2.43	0.72
1:K:246:ASN:HD21	1:K:247:GLU:C	1.92	0.72
1:K:658:ALA:HB2	1:K:913:PRO:N	2.04	0.72
1:K:672:TRP:HB3	1:K:675:PHE:HB2	1.72	0.72
1:L:108:ASP:HB2	1:L:555:TYR:N	2.02	0.72
1:L:371:LEU:CD1	1:L:377:ARG:NE	2.52	0.72
1:A:206:GLU:O	1:A:206:GLU:HG3	1.90	0.72
1:A:237:GLY:HA3	1:B:821:PHE:HB3	1.72	0.72
1:A:575:LEU:HB2	1:A:930:GLN:NE2	2.05	0.72
1:B:433:ASP:CG	1:B:433:ASP:C	2.48	0.72
1:B:769:GLN:HG2	1:B:794:PHE:HE1	1.54	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:144:THR:HG22	1:C:144:THR:O	1.89	0.72
1:C:587:LYS:HD3	1:C:610:PHE:HD1	1.53	0.72
1:D:69:VAL:HG13	1:D:70:PRO:HD2	1.72	0.72
1:D:594:GLN:HE21	1:D:704:SER:HB2	1.55	0.72
1:E:86:LEU:HD23	1:E:581:TYR:HB2	1.72	0.72
1:E:869:VAL:HG22	1:E:870:MET:N	2.01	0.72
1:E:931:PRO:HB3	6:U:159:ARG:NH1	2.04	0.72
1:F:806:VAL:CG1	1:F:856:VAL:CG1	2.68	0.72
1:G:417:THR:CG2	1:G:419:THR:HB	2.20	0.72
1:H:377:ARG:HH11	1:H:377:ARG:CG	2.01	0.72
1:H:498:THR:HG22	1:H:498:THR:O	1.90	0.72
1:H:838:GLN:HA	1:I:456:ASN:HD21	1.54	0.72
1:I:929:HIS:CD2	1:I:931:PRO:CD	2.71	0.72
4:M:21:LEU:HD11	4:M:29:ALA:HB2	1.72	0.72
4:M:46:GLN:O	7:2:25:ILE:HG21	1.90	0.72
5:S:33:GLY:HA2	5:S:44:ALA:O	1.90	0.72
6:U:83:ILE:O	6:U:83:ILE:HG23	1.89	0.72
1:C:21:SER:HB3	7:2:11:PRO:HG3	1.69	0.72
1:C:167:ILE:HD13	1:C:282:ILE:HG23	1.71	0.72
1:C:174:LEU:HB2	1:C:184:LYS:HE3	1.71	0.72
1:C:724:MET:SD	1:C:729:VAL:HG11	2.30	0.72
1:C:767:LEU:O	1:C:771:LEU:HB2	1.90	0.72
1:C:893:LEU:CD2	6:U:227:ASP:CA	2.67	0.72
1:E:126:PRO:HD3	1:F:828:PHE:HE2	1.54	0.72
1:E:553:GLY:H	1:F:804:GLN:HG3	1.54	0.72
1:E:670:ARG:HB2	1:E:670:ARG:NH1	2.04	0.72
1:F:333:LEU:HD12	1:F:333:LEU:O	1.89	0.72
1:G:150:GLU:CG	1:I:443:ASP:HB2	2.19	0.72
1:G:825:ASN:HD21	1:I:124:LEU:N	1.87	0.72
1:G:951:THR:HG22	1:G:951:THR:O	1.87	0.72
1:I:173:LEU:CB	1:I:185:LYS:NZ	2.53	0.72
1:I:345:LEU:O	1:I:345:LEU:CD1	2.36	0.72
1:J:96:MET:HE1	1:J:574:LEU:HD11	1.71	0.72
1:K:470:LYS:HG3	1:K:516:ALA:HB2	1.71	0.72
1:K:837:ARG:HH11	1:L:459:ALA:N	1.85	0.72
1:L:249:GLU:HG3	1:L:250:GLN:N	2.01	0.72
2:N:398:THR:HG22	2:N:398:THR:O	1.88	0.72
4:M:173:VAL:O	4:M:177:GLU:OE1	2.08	0.72
5:S:33:GLY:CA	5:S:43:PRO:O	2.38	0.72
6:U:13:TYR:CE1	6:U:188:PHE:CG	2.78	0.72
1:A:134:GLN:HA	1:A:154:THR:OG1	1.90	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:313:VAL:HG11	1:C:202:GLU:CB	2.17	0.72
1:A:380:TYR:CD2	1:A:387:ALA:CB	2.70	0.72
1:B:201:GLU:CG	1:B:202:GLU:H	2.03	0.72
1:B:560:ILE:HD12	1:B:562:VAL:HG13	1.72	0.72
1:B:927:ARG:O	1:B:928:VAL:HG13	1.89	0.72
1:C:79:LEU:HD13	1:C:335:TYR:CE2	2.25	0.72
1:C:330:PHE:CE1	1:C:384:TRP:CA	2.65	0.72
1:C:351:GLN:HG2	1:J:68:PHE:HA	1.70	0.72
1:C:631:GLU:HA	1:C:634:LEU:HB3	1.72	0.72
1:C:724:MET:HG2	1:C:729:VAL:HG21	0.78	0.72
1:C:724:MET:CB	1:C:729:VAL:HG23	2.03	0.72
1:D:912:GLU:CB	1:D:913:PRO:HD2	2.20	0.72
1:E:773:HIS:CE1	1:E:872:ARG:HD3	2.25	0.72
1:F:103:ILE:CA	1:F:560:ILE:CD1	2.64	0.72
1:G:88:VAL:HG12	1:G:577:GLY:O	1.86	0.72
1:G:575:LEU:HB3	1:G:576:PRO:CD	2.19	0.72
1:H:437:GLU:O	1:I:278:LYS:HE2	1.89	0.72
1:I:246:ASN:CG	1:I:247:GLU:N	2.37	0.72
1:I:297:VAL:HG13	1:I:299:TYR:O	1.90	0.72
1:I:330:PHE:CE2	1:I:561:GLN:O	2.43	0.72
1:J:97:ALA:CB	1:K:779:GLN:O	2.38	0.72
1:J:358:LEU:HD22	1:J:942:ARG:HH11	1.54	0.72
1:J:647:LEU:HD12	7:9:4:ILE:HD13	1.72	0.72
1:J:921:GLU:C	1:J:922:VAL:CG1	2.55	0.72
1:K:139:GLU:CB	1:K:152:ASP:OD2	2.28	0.72
1:K:315:GLN:NE2	1:K:836:MET:CB	2.47	0.72
1:K:424:GLN:NE2	1:L:264:PRO:HA	2.05	0.72
1:K:818:THR:HG22	1:K:820:PRO:HD3	1.72	0.72
1:L:320:ARG:CZ	1:L:597:LEU:HD11	2.19	0.72
1:L:405:ASP:OD1	1:L:405:ASP:C	2.26	0.72
1:L:514:VAL:HG22	1:L:514:VAL:O	1.89	0.72
1:L:759:CYS:CB	1:L:800:PRO:HB3	2.20	0.72
1:L:822:GLN:O	1:L:822:GLN:HG3	1.90	0.72
2:N:394:GLN:HB2	2:N:478:PRO:O	1.90	0.72
4:M:255:LEU:HD23	4:M:258:LEU:HD12	1.71	0.72
6:V:183:ILE:HD12	6:V:188:PHE:HA	1.71	0.72
1:B:433:ASP:OD2	1:B:433:ASP:HB2	1.70	0.71
1:C:83:ARG:HH22	1:J:69:VAL:HB	1.53	0.71
1:C:359:GLN:HE21	1:C:359:GLN:CA	1.91	0.71
1:C:498:THR:C	1:C:499:ASN:OD1	2.27	0.71
1:D:150:GLU:HB3	1:F:443:ASP:HB3	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:198:GLN:OE1	1:E:839:GLY:N	2.21	0.71
1:D:205:GLN:OE1	1:D:205:GLN:CA	2.37	0.71
1:D:752:GLU:O	1:D:754:TYR:CE1	2.43	0.71
1:E:422:THR:O	1:F:264:PRO:CG	2.38	0.71
1:G:673:ALA:HB3	1:G:943:THR:HG23	1.67	0.71
1:G:838:GLN:HA	1:H:456:ASN:OD1	1.89	0.71
1:H:20:ALA:C	7:5:9:LEU:HD11	2.09	0.71
1:H:737:LEU:HB3	1:H:739:THR:O	1.90	0.71
1:H:846:PHE:HB3	1:H:847:PRO:CD	2.20	0.71
1:I:269:PRO:HB3	1:I:273:SER:O	1.90	0.71
1:I:769:GLN:HE22	1:I:872:ARG:H	1.37	0.71
1:J:535:PHE:CD1	1:J:711:THR:OG1	2.42	0.71
1:K:665:ILE:CD1	1:K:918:LEU:HD22	2.20	0.71
2:N:140:HIS:ND1	2:N:141:PRO:HD2	2.04	0.71
2:N:441:THR:HG22	2:N:443:VAL:N	2.05	0.71
2:N:460:THR:O	2:N:461:ILE:HG22	1.90	0.71
5:P:46:SER:O	5:P:47:SER:OG	2.06	0.71
5:Q:44:ALA:HB1	5:Q:51:TYR:OH	1.90	0.71
6:U:20:ALA:HB3	6:U:70:ASN:HD22	1.55	0.71
1:A:453:CYS:SG	1:A:455:GLY:O	2.46	0.71
1:A:818:THR:HG23	1:A:821:PHE:CD1	2.25	0.71
1:B:159:VAL:HB	1:C:840:GLN:CG	2.19	0.71
1:C:29:VAL:HG23	7:2:9:LEU:HD12	1.70	0.71
1:C:121:TYR:CE2	1:C:229:PHE:CD1	2.79	0.71
1:C:199:VAL:O	1:C:199:VAL:HG12	1.88	0.71
1:D:79:LEU:CD1	1:D:335:TYR:HE2	2.03	0.71
1:D:88:VAL:O	1:D:88:VAL:CG2	2.38	0.71
1:D:262:ASP:HA	1:D:279:ALA:CB	2.20	0.71
1:D:933:ARG:O	1:D:933:ARG:HG3	1.88	0.71
1:E:196:GLU:N	1:E:197:PRO:HD2	2.06	0.71
1:E:296:HIS:CE1	1:E:317:MET:HG2	2.24	0.71
1:F:581:TYR:O	1:F:582:GLU:HB3	1.89	0.71
1:G:161:ALA:CB	1:G:198:GLN:HG3	2.20	0.71
1:G:220:THR:O	1:G:220:THR:HG23	1.90	0.71
1:G:520:ILE:HD12	1:G:520:ILE:N	2.05	0.71
1:G:719:LYS:HG2	1:G:906:GLU:OE2	1.89	0.71
1:H:257:ASP:OD1	1:H:285:THR:HG23	1.90	0.71
1:H:746:LYS:CG	1:H:760:ASN:HD22	2.03	0.71
1:H:746:LYS:CG	1:H:760:ASN:ND2	2.52	0.71
1:H:923:PHE:O	1:H:943:THR:CG2	2.37	0.71
1:J:298:VAL:CG2	1:J:317:MET:HG2	2.20	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:540:ASN:ND2	1:J:543:LEU:CB	2.49	0.71
1:K:291:GLU:C	1:K:293:PRO:HD3	2.08	0.71
1:L:413:PRO:HG2	1:L:417:THR:CA	2.19	0.71
1:L:494:LEU:HB3	1:L:495:PRO:HD2	1.71	0.71
1:L:808:GLU:HG3	1:L:814:TYR:CE1	2.25	0.71
6:V:10:MET:HG3	6:V:26:ASP:HB3	1.72	0.71
7:1:18:PHE:HE1	7:1:22:TRP:HZ3	1.34	0.71
7:4:21:THR:CG2	7:4:21:THR:O	2.38	0.71
7:6:3:ASP:C	7:6:4:ILE:HG13	2.10	0.71
1:B:822:GLN:HE21	1:B:846:PHE:HD1	1.37	0.71
1:B:831:TYR:H	1:B:838:GLN:NE2	1.86	0.71
1:C:267:SER:OG	1:C:268:PRO:CD	2.37	0.71
1:E:155:LYS:HD2	1:E:261:PHE:CE2	2.25	0.71
1:E:745:ILE:HG12	1:E:765:TRP:NE1	2.05	0.71
1:F:330:PHE:HE2	1:F:561:GLN:O	1.74	0.71
1:F:664:PRO:CB	5:P:18:THR:HG21	2.19	0.71
1:G:178:GLU:O	1:G:178:GLU:CG	2.26	0.71
1:G:333:LEU:HD23	1:G:562:VAL:HG11	1.72	0.71
1:G:525:SER:HB2	1:G:863:LYS:NZ	2.06	0.71
1:H:20:ALA:HB1	7:5:9:LEU:HD13	0.72	0.71
1:H:194:GLN:HG3	1:H:195:PRO:HD2	1.72	0.71
1:H:811:TYR:CE1	1:H:857:PRO:HD2	2.25	0.71
1:I:321:PRO:CG	1:I:538:PRO:HB3	2.18	0.71
1:I:824:ASN:O	1:I:825:ASN:CB	2.28	0.71
1:I:908:ASP:CB	1:I:909:PRO:HD2	2.20	0.71
1:J:103:ILE:CD1	1:J:610:PHE:CD2	2.72	0.71
1:K:47:ASN:HD22	1:K:47:ASN:C	1.93	0.71
1:K:575:LEU:HG	1:K:930:GLN:HE22	1.54	0.71
1:L:138:LYS:HB3	1:L:147:VAL:CG1	2.20	0.71
1:L:218:LYS:HG2	1:L:219:ASP:H	1.56	0.71
2:N:404:GLN:HE22	2:N:407:ASN:HD22	1.29	0.71
4:M:337:THR:N	4:M:338:PRO:HD2	2.05	0.71
5:P:18:THR:HG21	5:R:15:PRO:O	1.88	0.71
5:Q:12:LEU:HG	5:Q:15:PRO:HG2	1.73	0.71
5:Q:56:ASN:O	5:Q:58:SER:N	2.23	0.71
7:5:24:GLU:C	7:5:26:GLY:N	2.42	0.71
1:A:818:THR:HG23	1:A:821:PHE:HD1	1.54	0.71
1:B:180:ALA:HB3	1:B:182:ASN:HD22	1.53	0.71
1:B:731:TRP:HZ3	1:B:743:PHE:HZ	1.38	0.71
1:C:46:ARG:NH1	1:C:46:ARG:HB3	2.06	0.71
1:C:66:LEU:HG	1:C:619:PHE:HE1	1.55	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:811:TYR:CE1	1:C:856:VAL:HG23	2.24	0.71
1:D:843:PRO:HD3	1:F:131:ASN:ND2	2.05	0.71
1:D:921:GLU:C	1:D:922:VAL:HG13	2.11	0.71
1:E:135:TRP:CZ2	1:E:309:GLU:HG3	2.25	0.71
1:F:65:THR:HB	1:F:618:THR:HG22	1.72	0.71
1:G:104:ARG:NH1	1:H:753:GLY:N	2.39	0.71
1:G:150:GLU:HG3	1:I:443:ASP:CB	2.20	0.71
1:G:196:GLU:H	1:G:197:PRO:HD2	1.55	0.71
1:G:724:MET:HE3	1:G:729:VAL:CA	2.08	0.71
1:G:783:VAL:HG23	1:G:784:PRO:HD2	1.72	0.71
1:H:104:ARG:NH1	1:I:753:GLY:H	1.87	0.71
1:H:133:SER:O	1:H:154:THR:O	2.09	0.71
1:H:333:LEU:HD23	1:H:562:VAL:HG11	1.71	0.71
1:H:339:THR:CG2	1:J:740:PRO:HB2	2.20	0.71
1:H:346:ALA:HB2	1:H:353:ASN:N	2.05	0.71
1:I:406:GLU:CD	1:I:406:GLU:N	2.43	0.71
1:I:637:ASP:HA	1:I:929:HIS:HE1	1.55	0.71
1:I:637:ASP:OD2	1:I:637:ASP:O	2.08	0.71
1:I:803:ARG:CG	1:I:803:ARG:NH1	2.49	0.71
1:I:908:ASP:HB2	1:I:909:PRO:HD2	1.71	0.71
1:J:403:VAL:O	1:J:405:ASP:N	2.22	0.71
1:J:524:TRP:HH2	1:J:863:LYS:HG3	1.55	0.71
1:K:81:LYS:CA	1:K:584:ASN:HB3	2.20	0.71
1:L:20:ALA:CB	7:9:9:LEU:CD1	2.66	0.71
1:L:47:ASN:HB2	1:L:48:PRO:HD2	1.70	0.71
1:L:59:ASP:O	1:L:59:ASP:CG	2.23	0.71
1:L:241:LYS:HE2	1:L:286:GLU:OE1	1.90	0.71
2:N:151:GLN:O	2:N:152:ASP:OD1	2.06	0.71
2:N:406:SER:CB	2:N:496:ARG:HB3	2.20	0.71
6:V:187:GLN:O	6:V:191:GLU:HG2	1.90	0.71
1:A:193:PHE:CZ	1:A:214:ARG:HB2	2.24	0.71
1:A:199:VAL:HG12	1:C:456:ASN:CG	2.10	0.71
1:A:419:THR:HG22	1:A:421:SER:H	1.54	0.71
1:A:427:LYS:HB2	1:A:441:GLU:HB3	1.72	0.71
1:A:761:MET:CE	1:A:766:PHE:HD1	2.02	0.71
1:A:822:GLN:HB2	1:A:846:PHE:CD1	2.25	0.71
1:B:47:ASN:C	1:B:47:ASN:HD22	1.94	0.71
1:B:548:MET:HG2	1:C:523:ARG:HG3	1.71	0.71
1:B:933:ARG:HH22	4:M:92:LEU:HD23	1.56	0.71
1:C:137:THR:HG22	1:C:152:ASP:O	1.91	0.71
1:C:352:LEU:CD1	1:J:63:ARG:HE	2.01	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:682:ARG:HH22	1:C:910:MET:CB	2.02	0.71
1:D:237:GLY:HA2	1:E:817:VAL:HG22	1.73	0.71
1:D:634:LEU:C	1:D:636:ASN:H	1.93	0.71
1:E:103:ILE:H	1:E:103:ILE:CD1	2.04	0.71
1:E:121:TYR:O	1:E:227:GLY:HA2	1.88	0.71
1:E:905:PHE:CZ	1:E:918:LEU:HD13	2.26	0.71
1:F:710:GLY:O	1:F:712:PHE:CD2	2.44	0.71
1:G:206:GLU:O	1:G:207:ASN:CG	2.29	0.71
1:G:606:ALA:O	1:G:608:VAL:HG23	1.90	0.71
1:H:74:GLU:HG2	1:H:81:LYS:HG2	1.73	0.71
1:H:296:HIS:CE1	1:H:317:MET:SD	2.83	0.71
1:H:687:GLU:HB3	1:H:701:TYR:CG	2.25	0.71
1:I:797:ASN:H	1:I:797:ASN:ND2	1.88	0.71
1:J:80:TYR:O	1:J:584:ASN:HA	1.90	0.71
1:J:94:LEU:HD21	1:J:574:LEU:HD12	1.72	0.71
1:L:403:VAL:HG11	1:L:466:ALA:CB	2.21	0.71
1:L:699:PHE:HZ	1:L:705:ILE:HG21	1.55	0.71
5:Q:63:ALA:HB1	5:Q:66:ALA:HB3	1.72	0.71
7:6:22:TRP:CH2	7:6:25:ILE:CG1	2.72	0.71
1:A:699:PHE:HZ	1:A:705:ILE:CD1	2.02	0.71
1:B:79:LEU:CD1	1:B:341:ASN:ND2	2.53	0.71
1:B:822:GLN:HE22	1:B:846:PHE:HE1	1.37	0.71
1:C:687:GLU:HB2	1:C:701:TYR:CD2	2.25	0.71
1:C:744:GLU:HB3	1:C:762:THR:HG21	1.72	0.71
1:D:111:PRO:HG3	1:D:554:ARG:HH22	1.54	0.71
1:E:168:THR:HG21	1:E:185:LYS:NZ	2.06	0.71
1:E:531:ASN:CB	1:E:714:LEU:HD13	2.21	0.71
1:G:323:TYR:HB2	1:G:543:LEU:CD2	2.20	0.71
1:G:611:ASP:N	1:G:611:ASP:OD1	2.23	0.71
1:H:353:ASN:ND2	1:H:355:VAL:HG23	2.05	0.71
1:J:348:GLN:HB2	1:J:578:SER:O	1.89	0.71
1:J:644:ASN:HD22	1:L:46:ARG:HD3	1.55	0.71
1:K:134:GLN:HG2	1:K:155:LYS:H	1.56	0.71
1:K:135:TRP:CZ2	1:K:153:VAL:HB	2.26	0.71
1:K:445:ALA:HB2	1:L:153:VAL:CG2	2.16	0.71
1:K:783:VAL:HG23	1:K:795:PHE:CE2	2.24	0.71
7:5:16:ARG:NH1	7:5:21:THR:CG2	2.52	0.71
1:A:36:ASP:HA	1:A:40:SER:HB3	1.72	0.71
1:A:406:GLU:OE1	1:A:406:GLU:HA	1.91	0.71
1:A:684:LYS:HE3	1:A:713:TYR:OH	1.89	0.71
1:A:926:VAL:HG11	1:A:940:TYR:HE2	0.90	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:155:LYS:CG	1:B:261:PHE:HZ	2.01	0.71
1:B:738:LEU:HD23	1:B:754:TYR:CE2	2.23	0.71
1:D:384:TRP:CE3	1:D:384:TRP:HA	2.26	0.71
1:D:781:PHE:O	1:F:381:PHE:CE2	2.43	0.71
1:D:836:MET:SD	1:F:203:ASN:HB2	2.30	0.71
1:E:222:MET:HE3	1:E:307:SER:HB3	1.73	0.71
1:E:730:SER:C	1:E:732:PRO:HD2	2.07	0.71
1:E:824:ASN:HA	1:E:844:ALA:CB	2.19	0.71
1:H:19:ASP:CB	1:H:47:ASN:HB3	2.17	0.71
1:H:83:ARG:HA	1:H:582:GLU:HB3	1.71	0.71
1:H:108:ASP:HB3	1:H:607:SER:CB	2.18	0.71
1:H:489:PRO:HD3	1:H:508:VAL:HG12	1.71	0.71
1:I:137:THR:CG2	1:I:138:LYS:N	2.54	0.71
1:I:422:THR:HG21	1:I:449:GLN:CA	2.19	0.71
1:I:655:PRO:O	1:I:657:PRO:HD3	1.91	0.71
1:J:19:ASP:HB2	7:9:20:GLY:N	2.06	0.71
1:K:3:THR:O	1:K:3:THR:HG23	1.89	0.71
1:K:166:ASN:HA	1:K:210:PHE:CE1	2.25	0.71
1:K:499:ASN:HB3	1:K:600:ASP:HB2	1.71	0.71
1:L:215:ALA:HB3	1:L:285:THR:HG22	1.71	0.71
1:L:652:MET:SD	1:L:920:PHE:HE1	2.12	0.71
2:N:83:VAL:HG11	2:N:93:ALA:O	1.90	0.71
2:N:336:SER:OG	2:N:449:ASP:HB3	1.91	0.71
2:N:406:SER:HB2	2:N:496:ARG:CB	2.19	0.71
4:M:215:PRO:HD2	4:M:251:TYR:CE1	2.26	0.71
4:M:267:GLN:O	4:M:271:GLN:HG2	1.91	0.71
5:Q:16:TYR:CZ	5:R:18:THR:HA	2.26	0.71
5:R:34:SER:N	5:R:43:PRO:HG2	2.05	0.71
7:8:9:LEU:C	7:8:11:PRO:HD3	2.09	0.71
1:A:403:VAL:CG1	1:A:466:ALA:HA	2.19	0.71
1:B:180:ALA:HB1	1:B:182:ASN:HD21	1.55	0.71
1:B:337:ASN:OD1	1:B:361:ARG:O	2.09	0.71
1:B:364:GLU:OE1	1:B:364:GLU:CA	2.36	0.71
1:B:635:ARG:HH12	1:B:933:ARG:H	1.32	0.71
1:B:775:ASN:OD1	1:B:880:MET:SD	2.48	0.71
1:C:724:MET:HE2	1:C:729:VAL:CG1	2.19	0.71
1:D:38:TYR:HE1	1:E:56:VAL:CG1	1.78	0.71
1:D:892:MET:HE2	1:D:892:MET:HA	1.73	0.71
1:F:192:THR:O	1:F:193:PHE:HD1	1.67	0.71
1:F:426:VAL:HA	1:F:440:TRP:HA	1.72	0.71
1:F:712:PHE:CD2	1:F:712:PHE:N	2.56	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:49:THR:OG1	7:6:21:THR:CB	2.38	0.71
1:G:296:HIS:CE1	1:G:317:MET:HG3	2.26	0.71
1:H:157:PHE:CE2	1:H:159:VAL:CG2	2.73	0.71
1:I:155:LYS:HE3	1:I:259:ALA:CB	2.21	0.71
1:J:403:VAL:CG2	1:J:405:ASP:OD2	2.39	0.71
1:J:762:THR:HG22	1:J:765:TRP:CB	2.21	0.71
1:K:241:LYS:CD	1:K:256:ILE:HG12	2.09	0.71
1:L:78:TYR:HD2	5:Q:76:ARG:NH2	1.87	0.71
1:L:270:ALA:HB2	1:L:277:TYR:HB2	1.72	0.71
1:L:327:ARG:HD3	1:L:594:GLN:HB2	1.73	0.71
1:L:417:THR:CG2	1:L:418:GLY:N	2.52	0.71
1:L:672:TRP:HZ3	1:L:899:HIS:O	1.72	0.71
1:L:718:PHE:C	1:L:745:ILE:HG21	2.09	0.71
5:P:35:THR:CB	5:P:40:PRO:HA	2.19	0.71
1:A:823:HIS:CD2	1:C:195:PRO:HG2	2.26	0.71
1:B:58:THR:OG1	1:B:623:ALA:CA	2.37	0.71
1:C:720:LYS:HE3	1:C:742:GLU:OE2	1.90	0.71
1:D:153:VAL:O	1:D:153:VAL:CG1	2.38	0.71
1:F:558:PHE:O	1:F:558:PHE:HD1	1.69	0.71
1:F:656:ILE:HG22	1:F:663:VAL:HG11	1.71	0.71
1:H:829:THR:HG23	1:H:830:GLY:N	2.05	0.71
1:I:115:PRO:HB3	1:I:323:TYR:CE1	2.25	0.71
1:I:685:THR:CB	1:I:913:PRO:O	2.38	0.71
1:J:161:ALA:O	1:J:198:GLN:HG2	1.91	0.71
1:K:602:ARG:O	1:K:604:ASP:N	2.24	0.71
1:K:677:GLY:H	1:K:921:GLU:HB3	1.55	0.71
1:L:103:ILE:HG21	1:L:610:PHE:CE2	2.26	0.71
1:L:513:LEU:HD13	1:L:819:LEU:CD2	2.20	0.71
5:Q:16:TYR:CZ	5:R:18:THR:OG1	2.30	0.71
1:B:112:SER:HB2	1:B:501:TYR:CB	2.21	0.71
1:B:575:LEU:HB3	1:B:576:PRO:HD2	1.72	0.71
1:C:724:MET:CE	1:C:729:VAL:HG12	2.15	0.71
1:D:167:ILE:HD12	1:D:167:ILE:O	1.91	0.71
1:E:572:LEU:CD1	1:E:574:LEU:HB3	2.21	0.71
1:F:194:GLN:C	1:F:197:PRO:HD2	2.12	0.71
1:G:276:GLU:HB3	1:I:440:TRP:CZ3	2.25	0.71
1:G:445:ALA:HA	1:H:139:GLU:OE2	1.89	0.71
1:H:281:ILE:O	1:H:281:ILE:HG13	1.89	0.71
1:H:613:VAL:HG23	1:H:613:VAL:O	1.89	0.71
1:I:730:SER:C	1:I:732:PRO:HD2	2.11	0.71
1:J:465:GLN:HA	1:J:465:GLN:OE1	1.90	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:508:VAL:HG23	1:J:834:PRO:CD	2.21	0.71
1:K:8:PRO:HB3	6:V:18:GLY:CA	2.20	0.71
1:K:66:LEU:CD1	1:K:619:PHE:CE1	2.74	0.71
1:K:126:PRO:HG2	1:K:129:ALA:CB	2.21	0.71
1:K:167:ILE:HD12	1:K:280:ASP:OD1	1.91	0.71
1:K:513:LEU:HD13	1:K:819:LEU:HD13	1.73	0.71
1:K:681:THR:HG23	1:K:715:ASN:HB3	1.71	0.71
1:K:721:VAL:HG12	1:K:721:VAL:O	1.90	0.71
1:K:837:ARG:HD3	1:L:459:ALA:HB3	1.71	0.71
1:L:736:ARG:NH1	6:V:226:TYR:OH	2.24	0.71
1:A:28:LEU:CD2	1:B:639:HIS:HD2	2.00	0.70
1:A:169:ASN:ND2	1:C:428:ILE:HG21	2.05	0.70
1:A:214:ARG:CZ	1:A:286:GLU:OE1	2.39	0.70
1:A:723:ILE:HD12	1:A:731:TRP:HZ3	1.54	0.70
1:A:780:GLY:H	1:C:98:SER:HB3	1.55	0.70
1:C:103:ILE:H	1:C:103:ILE:CD1	2.03	0.70
1:D:149:GLN:O	1:D:150:GLU:CG	2.38	0.70
1:D:399:GLU:HA	1:D:399:GLU:OE1	1.91	0.70
1:D:415:ASN:O	1:E:129:ALA:CA	2.38	0.70
1:D:747:ARG:NH2	1:D:752:GLU:CD	2.43	0.70
1:E:25:SER:HB3	1:F:639:HIS:NE2	2.06	0.70
1:E:222:MET:O	1:E:222:MET:HG3	1.90	0.70
1:F:298:VAL:HB	1:F:317:MET:H	1.55	0.70
1:F:635:ARG:HH21	1:F:932:HIS:C	1.92	0.70
1:G:609:ARG:O	1:G:609:ARG:CG	2.38	0.70
1:H:31:PHE:C	1:H:31:PHE:CD1	2.63	0.70
1:H:134:GLN:CB	1:H:154:THR:HB	2.20	0.70
1:I:132:PRO:HB2	1:I:215:ALA:HA	1.72	0.70
1:J:678:TRP:HZ2	1:J:901:LEU:HD21	1.55	0.70
1:K:166:ASN:HA	1:K:210:PHE:CD1	2.26	0.70
1:K:323:TYR:O	1:K:595:SER:HB2	1.91	0.70
1:L:404:GLU:O	1:L:404:GLU:CG	2.32	0.70
1:L:602:ARG:NH2	1:L:699:PHE:O	2.24	0.70
2:N:280:LEU:HD13	2:N:328:VAL:HG13	1.72	0.70
4:M:385:ASN:OD1	4:M:386:PRO:HA	1.91	0.70
5:Q:36:VAL:N	5:Q:43:PRO:HG3	2.04	0.70
5:S:37:ASP:OD1	5:S:37:ASP:C	2.27	0.70
5:S:37:ASP:OD1	5:S:37:ASP:O	2.09	0.70
1:A:260:TYR:CE2	1:A:282:ILE:HD13	2.26	0.70
1:A:462:ILE:HG13	1:B:411:CYS:SG	2.31	0.70
1:B:203:ASN:HB2	1:C:836:MET:CE	2.21	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:486:LYS:HG2	1:B:509:VAL:CG1	2.21	0.70
1:B:769:GLN:CG	1:B:794:PHE:CD1	2.74	0.70
1:F:391:TYR:CD1	1:F:396:ARG:HB2	2.26	0.70
1:F:727:SER:O	5:P:20:ARG:NH1	2.21	0.70
1:G:449:GLN:CG	1:H:153:VAL:HG22	2.21	0.70
1:G:730:SER:O	1:G:733:GLY:HA3	1.91	0.70
1:G:802:SER:HB2	1:G:861:GLN:O	1.91	0.70
1:H:88:VAL:O	1:H:89:GLY:O	2.08	0.70
1:H:134:GLN:CG	1:H:154:THR:HB	2.21	0.70
1:H:346:ALA:CB	1:H:353:ASN:N	2.54	0.70
1:I:926:VAL:HG21	1:I:940:TYR:CD1	2.26	0.70
1:J:309:GLU:OE1	1:L:449:GLN:NE2	2.24	0.70
1:K:128:GLY:HA2	1:K:315:GLN:HA	1.74	0.70
1:K:229:PHE:HA	1:L:844:ALA:O	1.91	0.70
1:L:187:ILE:HG22	1:L:191:LYS:HE3	1.74	0.70
2:N:44:TYR:CE1	2:N:83:VAL:CG2	2.73	0.70
2:N:197:SER:HB3	2:N:338:ARG:HB3	1.72	0.70
2:N:353:SER:OG	2:N:356:LEU:HB2	1.91	0.70
5:Q:35:THR:HG21	5:Q:40:PRO:HG3	1.72	0.70
1:A:95:ASP:HB2	1:A:573:LEU:CD1	2.22	0.70
1:B:543:LEU:HD13	1:B:546:ARG:HH21	1.55	0.70
1:F:239:GLN:NE2	1:F:240:ALA:H	1.90	0.70
1:F:463:ASN:HD22	1:F:466:ALA:HB3	1.54	0.70
1:F:652:MET:SD	1:F:920:PHE:CE1	2.84	0.70
1:G:193:PHE:CZ	1:G:198:GLN:HA	2.26	0.70
1:G:377:ARG:HB3	1:G:388:VAL:CG1	2.21	0.70
1:H:256:ILE:HG22	1:H:257:ASP:N	2.06	0.70
1:H:640:ASP:N	1:H:640:ASP:OD2	2.21	0.70
1:I:107:LEU:HD11	1:I:593:LEU:HD23	1.71	0.70
1:I:524:TRP:CD1	1:I:803:ARG:HD3	2.25	0.70
1:J:514:VAL:HG23	1:J:518:ILE:HD11	1.73	0.70
1:K:109:ARG:NH2	1:K:550:LEU:HD22	2.06	0.70
1:L:820:PRO:HG2	1:L:821:PHE:CE1	2.26	0.70
2:N:141:PRO:HB3	2:N:152:ASP:CG	2.11	0.70
3:O:15:TYR:HE2	3:O:17:TYR:HA	1.56	0.70
4:M:219:ARG:HH22	4:M:301:ASN:C	1.94	0.70
5:Q:35:THR:C	5:Q:43:PRO:CG	2.59	0.70
7:3:26:GLY:O	7:3:28:SER:N	2.23	0.70
1:A:18:GLN:NE2	1:A:22:GLU:OE2	2.25	0.70
1:A:498:THR:HG23	1:A:503:TYR:CE2	2.26	0.70
1:B:162:THR:HG23	1:B:163:GLY:H	1.54	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:173:LEU:HB2	1:B:185:LYS:HZ3	1.54	0.70
1:B:652:MET:HB2	1:B:654:TYR:CE1	2.26	0.70
1:B:731:TRP:C	1:B:733:GLY:H	1.94	0.70
1:C:799:GLN:HA	1:C:799:GLN:NE2	2.07	0.70
1:D:709:ASP:O	1:D:711:THR:N	2.24	0.70
1:D:885:LEU:O	1:F:51:ALA:CB	2.39	0.70
1:E:676:ARG:HB3	1:E:921:GLU:CB	2.21	0.70
1:E:770:MET:O	1:E:774:TYR:O	2.09	0.70
1:E:842:TYR:CD1	1:E:843:PRO:HD2	2.26	0.70
1:E:912:GLU:HB3	1:E:913:PRO:HD2	1.73	0.70
1:G:525:SER:HB2	1:G:863:LYS:HZ1	1.57	0.70
1:H:369:LEU:N	1:H:369:LEU:HD13	2.06	0.70
1:H:798:PHE:CE2	1:H:800:PRO:HD3	2.26	0.70
1:K:353:ASN:O	6:U:35:SER:HB3	1.91	0.70
1:K:682:ARG:HD2	1:K:907:VAL:HG11	1.72	0.70
1:K:833:ALA:O	1:K:835:THR:N	2.23	0.70
1:L:603:VAL:HG23	1:L:604:ASP:OD2	1.90	0.70
2:N:75:HIS:ND1	2:N:503:TYR:O	2.21	0.70
4:M:6:PRO:CG	4:M:11:ARG:NH2	2.54	0.70
1:A:152:ASP:HB2	1:C:444:ASP:CA	2.22	0.70
1:A:681:THR:HG21	1:A:712:PHE:HD2	1.57	0.70
1:B:241:LYS:CD	1:B:256:ILE:HG12	2.21	0.70
1:B:396:ARG:CZ	1:B:865:LEU:HD11	2.20	0.70
1:B:449:GLN:NE2	1:B:450:ASN:HD21	1.89	0.70
1:C:572:LEU:HA	1:C:643:PHE:CZ	2.25	0.70
1:D:139:GLU:CD	1:F:448:ARG:HG3	2.12	0.70
1:D:244:PRO:CD	1:D:253:ASP:C	2.59	0.70
1:D:674:ALA:O	1:D:944:PRO:HG3	1.92	0.70
1:D:941:LEU:HD23	1:F:13:MET:CG	2.13	0.70
1:E:19:ASP:OD2	1:E:21:SER:HB3	1.90	0.70
1:E:107:LEU:C	1:E:107:LEU:HD12	2.11	0.70
1:E:172:LEU:HD21	1:E:193:PHE:CZ	2.25	0.70
1:E:240:ALA:HB3	1:E:288:VAL:HB	1.74	0.70
1:E:444:ASP:HA	1:F:152:ASP:HA	1.74	0.70
1:E:929:HIS:CD2	6:U:161:SER:HB3	2.26	0.70
1:F:744:GLU:C	1:F:762:THR:HG1	1.90	0.70
1:G:244:PRO:O	1:G:246:ASN:N	2.25	0.70
1:H:527:ASP:OD1	1:H:863:LYS:HE2	1.91	0.70
1:I:38:TYR:OH	7:6:24:GLU:CG	2.39	0.70
1:I:170:GLN:O	1:I:170:GLN:HG2	1.91	0.70
1:I:682:ARG:HE	1:I:907:VAL:CG2	2.01	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:456:ASN:N	1:J:456:ASN:HD22	1.85	0.70
1:J:738:LEU:HD12	1:J:754:TYR:HE2	1.57	0.70
1:K:199:VAL:CG1	1:K:206:GLU:HG2	2.20	0.70
1:K:256:ILE:HG12	1:K:286:GLU:OE1	1.90	0.70
1:K:580:THR:O	1:K:580:THR:HG22	1.89	0.70
1:B:281:ILE:O	1:B:281:ILE:HG13	1.91	0.70
1:B:328:ASP:C	1:B:328:ASP:OD2	2.30	0.70
1:C:441:GLU:HB2	1:C:446:ILE:HA	1.73	0.70
1:C:515:ASP:HB3	1:C:517:TYR:CZ	2.25	0.70
1:D:412:PHE:CD1	1:D:412:PHE:N	2.60	0.70
1:D:758:GLN:HA	1:D:758:GLN:OE1	1.91	0.70
1:E:52:PRO:HD2	7:3:23:ASN:HD22	1.52	0.70
1:E:151:LYS:O	1:E:151:LYS:CG	2.37	0.70
1:F:150:GLU:C	1:F:152:ASP:N	2.43	0.70
1:F:186:ASP:OD1	1:F:192:THR:CA	2.35	0.70
1:H:15:ILE:CG1	1:I:925:VAL:HG11	2.22	0.70
1:H:476:ASN:ND2	1:H:539:ARG:NH1	2.39	0.70
1:I:55:ASP:O	1:I:623:ALA:CB	2.39	0.70
1:I:134:GLN:HG2	1:I:154:THR:HG23	1.73	0.70
1:J:162:THR:HG23	1:J:193:PHE:CE2	2.25	0.70
1:K:202:GLU:HA	1:L:313:VAL:HG11	1.74	0.70
1:L:417:THR:CG2	1:L:418:GLY:H	2.05	0.70
2:N:61:ASN:HD22	2:N:66:ILE:HB	1.56	0.70
5:Q:14:SER:O	5:R:15:PRO:HB3	1.90	0.70
5:Q:126:ARG:HG3	5:Q:129:GLN:NE2	2.06	0.70
1:A:330:PHE:CE2	1:A:561:GLN:O	2.45	0.70
1:A:543:LEU:HD21	1:A:596:SER:HA	1.72	0.70
1:A:681:THR:HG21	1:A:712:PHE:CD2	2.27	0.70
1:B:79:LEU:HD11	1:B:335:TYR:OH	1.92	0.70
1:B:193:PHE:HZ	1:B:199:VAL:H	0.86	0.70
1:C:52:PRO:CD	7:1:23:ASN:OD1	2.38	0.70
1:C:188:TYR:O	1:C:188:TYR:CD1	2.45	0.70
1:C:204:TRP:C	1:C:205:GLN:HG2	2.11	0.70
1:C:731:TRP:CB	1:C:732:PRO:CD	2.59	0.70
1:D:715:ASN:ND2	1:D:869:VAL:O	2.24	0.70
1:E:162:THR:C	1:E:199:VAL:HG21	2.11	0.70
1:E:192:THR:CG2	1:E:193:PHE:CD1	2.71	0.70
1:E:462:ILE:HG22	1:F:410:TYR:O	1.90	0.70
1:F:72:ASP:OD1	1:F:72:ASP:C	2.30	0.70
1:G:650:ALA:HA	1:G:942:ARG:HH21	1.57	0.70
1:H:377:ARG:HG2	1:H:377:ARG:NH1	2.06	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:943:THR:OG1	1:H:944:PRO:HD2	1.84	0.70
1:J:309:GLU:OE2	1:J:309:GLU:HA	1.90	0.70
1:J:831:TYR:CD1	1:L:196:GLU:HB2	2.27	0.70
1:K:19:ASP:O	1:K:22:GLU:HG2	1.92	0.70
1:K:498:THR:HG22	1:K:498:THR:O	1.91	0.70
1:K:558:PHE:HD2	1:K:560:ILE:HG23	1.56	0.70
1:K:620:PHE:HD1	1:L:778:TYR:CE2	2.10	0.70
1:K:749:VAL:HG12	1:K:750:ASP:CG	2.12	0.70
5:P:36:VAL:N	5:P:43:PRO:HG2	2.06	0.70
1:A:327:ARG:HD3	1:A:594:GLN:HB2	1.73	0.70
1:A:878:ASN:HB3	1:C:621:PRO:HG2	1.73	0.70
1:B:81:LYS:HB2	1:B:584:ASN:ND2	2.07	0.70
1:B:939:VAL:HG22	1:B:949:ASN:O	1.91	0.70
1:C:20:ALA:HA	1:C:23:TYR:CE2	2.26	0.70
1:C:233:THR:OG1	1:C:240:ALA:HA	1.92	0.70
1:C:480:TYR:OH	1:C:538:PRO:HD3	1.91	0.70
1:D:88:VAL:CG1	1:D:577:GLY:H	2.03	0.70
1:D:411:CYS:HB3	1:F:462:ILE:CB	2.21	0.70
1:E:6:MET:HG2	1:E:7:MET:N	2.05	0.70
1:E:59:ASP:O	1:E:60:ARG:C	2.28	0.70
1:E:194:GLN:O	1:E:197:PRO:CG	2.40	0.70
1:F:384:TRP:HA	1:F:384:TRP:CE3	2.27	0.70
1:F:540:ASN:HD22	1:F:543:LEU:HB3	1.56	0.70
1:G:103:ILE:HD13	1:G:560:ILE:HG13	1.72	0.70
1:G:157:PHE:HE1	1:G:312:LEU:CG	2.04	0.70
1:H:442:LYS:CG	1:I:150:GLU:OE1	2.40	0.70
1:H:720:LYS:HA	1:H:743:PHE:O	1.91	0.70
1:H:744:GLU:O	1:H:744:GLU:CG	2.39	0.70
1:I:399:GLU:CB	1:I:522:ALA:O	2.39	0.70
1:I:556:VAL:O	1:I:556:VAL:HG23	1.90	0.70
1:I:572:LEU:HD13	1:I:928:VAL:HG11	1.73	0.70
1:J:38:TYR:OH	1:K:56:VAL:HG12	1.89	0.70
1:J:757:ALA:O	1:J:758:GLN:HG2	1.92	0.70
1:K:756:VAL:HG21	1:K:766:PHE:HB2	1.74	0.70
1:L:21:SER:HB3	7:9:11:PRO:HG2	1.74	0.70
1:L:31:PHE:CD2	1:L:32:ALA:N	2.60	0.70
2:N:88:PHE:HB2	2:N:93:ALA:HB2	1.72	0.70
4:M:218:ASP:OD2	4:M:220:SER:O	2.10	0.70
7:8:17:PRO:O	7:8:18:PHE:CG	2.45	0.70
1:A:155:LYS:HG3	1:A:261:PHE:CZ	2.26	0.70
1:A:458:TYR:O	1:A:458:TYR:CG	2.45	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:98:SER:HB3	1:C:778:TYR:O	1.92	0.70
1:B:348:GLN:C	1:B:348:GLN:NE2	2.45	0.70
1:C:230:ALA:O	1:C:239:GLN:NE2	2.19	0.70
1:C:448:ARG:HG3	1:C:449:GLN:NE2	2.06	0.70
1:C:733:GLY:O	1:C:736:ARG:HB3	1.91	0.70
1:C:908:ASP:HB2	1:C:909:PRO:HD2	1.74	0.70
1:E:83:ARG:HG3	1:E:582:GLU:CB	2.22	0.70
1:E:83:ARG:HG3	1:E:582:GLU:HB3	1.72	0.70
1:E:524:TRP:CH2	1:E:863:LYS:HG2	2.27	0.70
1:E:682:ARG:NH2	1:E:910:MET:SD	2.65	0.70
1:F:760:ASN:OD1	5:P:54:VAL:HG22	1.91	0.70
1:F:950:ALA:CB	1:H:893:LEU:CB	2.65	0.70
1:G:83:ARG:NH2	1:G:580:THR:HG21	2.06	0.70
1:G:313:VAL:CA	1:I:203:ASN:ND2	2.46	0.70
1:G:745:ILE:CD1	1:G:765:TRP:CZ2	2.72	0.70
1:H:266:GLY:N	1:H:276:GLU:HB3	2.06	0.70
1:H:429:THR:HB	1:H:437:GLU:OE1	1.91	0.70
1:I:246:ASN:HD22	1:I:250:GLN:C	1.92	0.70
1:J:529:MET:O	1:J:529:MET:SD	2.50	0.70
1:J:757:ALA:O	1:J:758:GLN:CG	2.40	0.70
1:K:478:ALA:O	1:K:480:TYR:N	2.24	0.70
1:K:663:VAL:O	1:K:663:VAL:HG13	1.92	0.70
4:M:145:LEU:HD13	4:M:167:ARG:NH2	2.06	0.70
4:M:185:TYR:CD2	4:M:201:GLN:HB2	2.22	0.70
4:M:352:SER:HB2	4:M:355:ALA:HB3	1.73	0.70
1:A:262:ASP:HB2	1:A:279:ALA:HB3	1.74	0.70
1:B:323:TYR:H	1:B:596:SER:HB3	1.57	0.70
1:B:728:SER:C	1:B:730:SER:H	1.96	0.70
1:C:250:GLN:HG3	1:C:251:PRO:HD2	1.74	0.70
1:C:524:TRP:HE3	1:C:802:SER:HA	1.56	0.70
1:D:158:GLY:O	1:F:452:ILE:HG22	1.83	0.70
1:D:231:ARG:O	1:D:240:ALA:HB2	1.91	0.70
1:D:446:ILE:O	1:D:446:ILE:CG2	2.39	0.70
1:D:868:ARG:O	1:D:868:ARG:HG3	1.90	0.70
1:F:160:ALA:HB1	1:F:212:GLY:C	2.12	0.70
1:F:217:LYS:HE2	1:F:285:THR:HG22	1.73	0.70
1:F:811:TYR:CE1	1:F:856:VAL:HG23	2.27	0.70
1:F:906:GLU:HG2	1:F:906:GLU:O	1.89	0.70
1:F:950:ALA:HB2	1:H:893:LEU:CD1	2.17	0.70
1:G:202:GLU:CB	1:H:313:VAL:HG11	2.22	0.70
1:G:462:ILE:HG12	1:G:463:ASN:N	2.06	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:89:GLY:HA3	1:H:92:ARG:CD	2.21	0.70
1:H:286:GLU:OE2	1:I:842:TYR:OH	2.08	0.70
1:I:193:PHE:CE2	1:I:284:TYR:CE1	2.77	0.70
1:I:359:GLN:NE2	1:I:692:GLY:HA2	2.05	0.70
1:J:208:GLU:HB2	1:J:211:TYR:CZ	2.27	0.70
1:J:732:PRO:O	1:J:734:ASN:N	2.25	0.70
1:K:7:MET:HE1	1:K:12:TYR:HD1	1.56	0.70
1:K:149:GLN:HG2	1:K:150:GLU:N	2.03	0.70
1:K:195:PRO:CB	1:L:840:GLN:HE21	2.04	0.70
1:K:592:ILE:O	1:K:593:LEU:HG	1.92	0.70
1:K:721:VAL:O	1:K:721:VAL:CG1	2.39	0.70
1:K:724:MET:HE2	1:K:730:SER:N	2.05	0.70
1:L:33:ARG:NH1	7:9:12:ARG:HB3	2.07	0.70
1:L:168:THR:CG2	1:L:171:GLY:H	2.05	0.70
4:M:9:ALA:HB2	4:M:121:ARG:HG3	1.73	0.70
4:M:173:VAL:HG23	4:M:240:PHE:HZ	1.56	0.70
5:R:14:SER:CB	5:R:15:PRO:HD3	2.21	0.70
5:R:19:THR:HG22	5:R:20:ARG:O	1.92	0.70
5:S:54:VAL:O	5:S:55:GLY:O	2.09	0.70
1:A:694:GLY:O	1:A:695:PHE:HB3	1.91	0.69
1:A:725:PHE:CZ	1:A:901:LEU:HD13	2.26	0.69
1:A:774:TYR:CE1	1:A:789:ASP:HB3	2.26	0.69
1:B:117:SER:HB3	1:B:321:PRO:HG3	1.74	0.69
1:B:716:HIS:ND1	1:B:717:THR:CG2	2.55	0.69
1:C:82:ALA:CB	1:C:613:VAL:HG21	2.21	0.69
1:C:544:ARG:HH11	1:C:544:ARG:HB3	1.55	0.69
1:C:745:ILE:HG12	1:C:765:TRP:CD2	2.27	0.69
1:G:100:TYR:O	1:G:615:LEU:HA	1.92	0.69
1:G:143:THR:HG23	1:G:143:THR:O	1.90	0.69
1:G:306:ASN:O	1:G:308:SER:N	2.25	0.69
1:H:214:ARG:HH11	1:H:214:ARG:HG2	1.54	0.69
1:H:249:GLU:HG3	1:H:250:GLN:N	2.05	0.69
1:H:266:GLY:H	1:H:276:GLU:HG2	1.56	0.69
1:H:278:LYS:O	1:H:278:LYS:CG	2.35	0.69
1:H:320:ARG:CZ	1:H:597:LEU:HD11	2.22	0.69
1:H:348:GLN:HB3	1:H:578:SER:O	1.91	0.69
1:H:837:ARG:O	1:H:837:ARG:CG	2.24	0.69
1:I:100:TYR:O	1:I:100:TYR:CD2	2.44	0.69
1:I:189:ALA:CB	1:I:241:LYS:NZ	2.55	0.69
1:K:296:HIS:O	1:K:316:SER:HB3	1.92	0.69
1:K:513:LEU:CD1	1:K:819:LEU:CD1	2.67	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:915:LEU:HD12	1:K:915:LEU:O	1.92	0.69
1:L:371:LEU:CD1	1:L:377:ARG:HH21	2.02	0.69
4:M:359:PRO:O	4:M:363:LYS:HB2	1.92	0.69
5:Q:62:THR:OG1	5:Q:62:THR:O	2.09	0.69
1:A:466:ALA:HB1	1:C:124:LEU:HD23	1.73	0.69
1:A:826:SER:O	1:A:828:PHE:N	2.25	0.69
1:B:46:ARG:CD	1:C:644:ASN:HD22	2.03	0.69
1:B:268:PRO:HB3	1:B:274:GLY:O	1.92	0.69
1:B:277:TYR:HE1	1:B:279:ALA:CB	1.89	0.69
1:B:648:SER:CB	1:B:922:VAL:O	2.40	0.69
1:B:731:TRP:HB3	1:B:732:PRO:CD	2.21	0.69
1:D:7:MET:O	1:D:10:TRP:HB2	1.92	0.69
1:E:370:LEU:HD13	1:E:646:TYR:CD1	2.27	0.69
1:E:588:ASP:O	1:E:592:ILE:HG13	1.92	0.69
1:F:641:GLN:O	1:F:928:VAL:HG23	1.93	0.69
1:H:61:SER:HB3	1:I:734:ASN:ND2	2.06	0.69
1:H:186:ASP:OD1	1:H:191:LYS:HG3	1.92	0.69
1:H:918:LEU:HD21	1:H:920:PHE:CE2	2.27	0.69
1:J:107:LEU:HG	1:J:108:ASP:N	2.07	0.69
1:J:910:MET:HE3	1:J:914:THR:CG2	2.21	0.69
2:N:372:LEU:HD12	2:N:373:LEU:H	1.55	0.69
2:N:450:ASN:HB3	2:N:453:LEU:CB	2.22	0.69
4:M:112:ASN:C	4:M:114:ASP:H	1.94	0.69
4:M:185:TYR:HD2	4:M:201:GLN:CB	2.03	0.69
6:V:3:LYS:HD3	6:V:3:LYS:H	1.55	0.69
6:V:83:ILE:HG22	6:V:83:ILE:O	1.91	0.69
1:A:330:PHE:CZ	1:A:385:ASN:HB2	2.26	0.69
1:B:155:LYS:CE	1:B:259:ALA:HB3	2.22	0.69
1:B:196:GLU:CG	1:C:831:TYR:CE1	2.68	0.69
1:B:204:TRP:NE1	1:B:415:ASN:CB	2.19	0.69
1:B:831:TYR:CE2	1:B:832:LEU:HD12	2.27	0.69
1:D:178:GLU:HB2	1:D:181:GLU:HA	1.73	0.69
1:E:922:VAL:HG21	1:E:942:ARG:HG2	1.73	0.69
1:F:115:PRO:HA	1:F:323:TYR:CE1	2.27	0.69
1:F:664:PRO:HB2	5:P:18:THR:CG2	2.22	0.69
1:G:76:THR:HG21	1:G:79:LEU:HD12	1.74	0.69
1:G:244:PRO:HD2	1:G:253:ASP:O	1.91	0.69
1:G:313:VAL:HG11	1:I:203:ASN:HB2	1.70	0.69
1:G:893:LEU:HD21	1:G:894:TYR:CE1	2.27	0.69
1:H:372:ASP:HA	1:H:377:ARG:HG3	1.72	0.69
1:I:351:GLN:NE2	1:I:351:GLN:HA	2.08	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:891:ASN:H	1:I:891:ASN:ND2	1.85	0.69
1:J:94:LEU:HB2	1:J:619:PHE:CD2	2.27	0.69
1:J:445:ALA:HB2	1:J:449:GLN:CB	2.20	0.69
1:J:766:PHE:CE2	1:L:383:MET:CE	2.76	0.69
1:L:19:ASP:HB2	1:L:47:ASN:HB2	1.73	0.69
1:L:126:PRO:O	1:L:128:GLY:N	2.25	0.69
1:L:192:THR:HG21	1:L:214:ARG:NH1	2.06	0.69
1:L:426:VAL:HA	1:L:440:TRP:HA	1.72	0.69
2:N:69:LEU:HD22	2:N:79:LEU:HD11	1.73	0.69
4:M:199:LEU:CD1	6:U:1:MET:HG2	2.22	0.69
5:P:12:LEU:CG	5:P:17:LEU:HD21	2.21	0.69
5:P:35:THR:HG22	5:P:36:VAL:N	2.07	0.69
6:U:168:TYR:CB	7:1:31:ASN:HD22	2.05	0.69
1:A:421:SER:CB	1:A:423:TYR:CE1	2.61	0.69
1:A:822:GLN:CB	1:A:846:PHE:CD1	2.75	0.69
1:B:421:SER:O	1:B:451:GLN:HB2	1.93	0.69
1:C:79:LEU:CD1	1:C:335:TYR:CE2	2.75	0.69
1:C:364:GLU:HG3	1:C:708:LEU:CD1	2.23	0.69
1:C:495:PRO:HD2	1:C:503:TYR:HB2	1.75	0.69
1:D:135:TRP:CZ3	1:D:137:THR:HB	2.27	0.69
1:D:752:GLU:HG3	1:D:754:TYR:HE1	1.58	0.69
1:F:103:ILE:HG12	1:F:613:VAL:CG1	2.22	0.69
1:F:731:TRP:CD2	1:F:731:TRP:C	2.65	0.69
1:G:13:MET:HE2	1:H:925:VAL:CG2	2.14	0.69
1:G:159:VAL:O	1:H:840:GLN:NE2	2.25	0.69
1:G:188:TYR:HA	1:G:192:THR:HG22	1.73	0.69
1:G:313:VAL:HB	1:I:203:ASN:HD22	1.00	0.69
1:H:64:LEU:CB	1:I:736:ARG:O	2.41	0.69
1:H:88:VAL:HB	1:H:577:GLY:H	1.57	0.69
1:H:258:PHE:HD2	1:H:282:ILE:HD11	1.55	0.69
1:I:33:ARG:HG3	1:I:34:ALA:N	2.06	0.69
1:I:385:ASN:HD21	1:I:546:ARG:CG	1.99	0.69
1:I:863:LYS:O	1:I:863:LYS:HD2	1.93	0.69
1:J:134:GLN:NE2	1:J:155:LYS:HD3	2.07	0.69
1:J:663:VAL:HG23	5:P:17:LEU:HD13	1.73	0.69
1:L:517:TYR:HB2	1:L:520:ILE:HD11	1.74	0.69
2:N:114:LEU:HD11	2:N:502:VAL:HG13	1.75	0.69
2:N:329:LEU:HD12	2:N:330:PRO:HD2	1.74	0.69
4:M:46:GLN:O	7:2:25:ILE:CG2	2.40	0.69
4:M:221:THR:HG22	4:M:222:VAL:N	2.07	0.69
7:7:9:LEU:HG	7:7:10:ALA:N	2.06	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:121:TYR:CD2	1:A:229:PHE:HB2	2.28	0.69
1:B:673:ALA:HB3	1:B:943:THR:OG1	1.92	0.69
1:D:107:LEU:HG	1:D:108:ASP:N	2.06	0.69
1:E:172:LEU:CD2	1:E:193:PHE:HZ	2.02	0.69
1:F:150:GLU:CB	1:F:152:ASP:OD1	2.33	0.69
1:F:294:ASP:O	1:F:319:ASN:OD1	2.11	0.69
1:G:33:ARG:HH11	1:G:33:ARG:HG2	1.57	0.69
1:G:193:PHE:HZ	1:G:198:GLN:HA	1.57	0.69
1:G:456:ASN:OD1	1:I:838:GLN:HA	1.92	0.69
1:G:917:TYR:CD2	1:G:919:LEU:HB3	2.28	0.69
1:H:174:LEU:O	1:H:174:LEU:CD1	2.38	0.69
1:H:203:ASN:HA	1:I:836:MET:CE	2.22	0.69
1:H:269:PRO:HB3	1:H:277:TYR:HE2	1.46	0.69
1:H:353:ASN:ND2	1:H:355:VAL:N	2.40	0.69
1:J:724:MET:HE3	5:Q:20:ARG:HH12	1.57	0.69
1:K:682:ARG:NH2	1:K:914:THR:HG21	2.07	0.69
1:L:322:ASN:HD22	1:L:323:TYR:H	1.39	0.69
1:L:507:ARG:HB3	1:L:507:ARG:NH1	2.07	0.69
1:L:633:MET:CG	6:V:171:LEU:HD13	2.22	0.69
2:N:455:ARG:HG3	2:N:456:PRO:CD	2.10	0.69
4:M:72:VAL:HG11	4:M:98:LEU:HD21	1.74	0.69
5:P:18:THR:CG2	5:P:19:THR:N	2.55	0.69
5:Q:127:GLU:HG2	5:Q:128:GLN:HG3	1.74	0.69
1:A:835:THR:OG1	1:C:201:GLU:OE2	2.09	0.69
1:B:260:TYR:HD1	1:B:260:TYR:N	1.90	0.69
1:B:371:LEU:HD12	1:B:377:ARG:HH21	1.57	0.69
1:B:472:PHE:HE1	1:B:539:ARG:CZ	2.05	0.69
1:B:903:MET:O	1:B:903:MET:HG3	1.92	0.69
1:C:300:LYS:HG2	1:C:301:PRO:HD2	1.73	0.69
1:C:330:PHE:CE1	1:C:384:TRP:HA	2.27	0.69
1:C:652:MET:O	1:C:653:LEU:HD23	1.93	0.69
1:C:731:TRP:CH2	1:C:875:PHE:HA	2.28	0.69
1:C:927:ARG:HG2	1:C:927:ARG:O	1.91	0.69
1:D:892:MET:SD	1:F:3:THR:HG21	2.32	0.69
1:E:162:THR:C	1:E:199:VAL:HG23	2.13	0.69
1:E:500:THR:CG2	1:E:502:GLU:HG2	2.21	0.69
1:E:833:ALA:C	1:E:835:THR:H	1.96	0.69
1:F:294:ASP:O	1:F:319:ASN:CG	2.31	0.69
1:F:929:HIS:CE1	1:F:931:PRO:HG3	2.28	0.69
1:G:132:PRO:HA	1:G:157:PHE:O	1.93	0.69
1:G:445:ALA:HB2	1:G:449:GLN:HG3	1.71	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:445:ALA:CB	1:H:449:GLN:OE1	2.41	0.69
1:H:869:VAL:HG22	1:H:870:MET:N	2.04	0.69
1:I:31:PHE:CD2	1:I:31:PHE:C	2.65	0.69
1:I:263:VAL:H	1:I:279:ALA:HB3	1.57	0.69
1:I:602:ARG:HH11	1:I:695:PHE:HE1	1.40	0.69
1:I:746:LYS:HD2	1:I:760:ASN:HD22	1.58	0.69
1:J:242:PHE:O	1:J:255:ASP:OD1	2.10	0.69
1:L:670:ARG:HG2	1:L:671:ASN:H	1.57	0.69
4:M:249:ASN:CG	4:M:250:SER:H	1.93	0.69
5:P:16:TYR:HA	5:Q:18:THR:OG1	1.93	0.69
5:S:53:THR:O	5:S:53:THR:CG2	2.40	0.69
1:A:381:PHE:CE1	1:B:795:PHE:HE1	2.10	0.69
1:A:423:TYR:O	1:A:450:ASN:ND2	2.23	0.69
1:A:533:ASN:HB2	1:A:713:TYR:OH	1.92	0.69
1:C:60:ARG:HE	6:U:93:ARG:HH11	1.30	0.69
1:C:638:THR:HG22	1:C:638:THR:O	1.93	0.69
1:D:60:ARG:HH21	1:D:624:HIS:CB	2.00	0.69
1:D:88:VAL:HG13	1:D:576:PRO:HA	1.73	0.69
1:D:260:TYR:HE2	1:D:282:ILE:HG21	1.53	0.69
1:D:460:MET:HG2	1:F:460:MET:SD	2.32	0.69
1:D:892:MET:CE	1:D:892:MET:HA	2.22	0.69
1:E:258:PHE:CD2	1:E:282:ILE:HD11	2.23	0.69
1:F:113:PHE:HB2	1:F:324:ILE:HD12	1.74	0.69
1:F:136:GLU:OE1	1:F:151:LYS:CA	2.39	0.69
1:G:13:MET:HE1	1:H:925:VAL:HG22	1.72	0.69
1:G:734:ASN:O	1:G:735:ASP:HB2	1.92	0.69
1:G:906:GLU:O	1:G:906:GLU:CG	2.40	0.69
1:G:926:VAL:HG22	1:G:940:TYR:CD2	2.28	0.69
1:H:67:ARG:HH22	1:I:752:GLU:CB	2.06	0.69
1:H:162:THR:CG2	1:H:163:GLY:N	2.55	0.69
1:H:935:VAL:HG11	6:V:158:GLY:N	2.06	0.69
1:I:510:ALA:HB1	1:I:832:LEU:O	1.92	0.69
1:J:738:LEU:HD12	1:J:754:TYR:CE2	2.27	0.69
1:K:327:ARG:HH11	1:K:327:ARG:HG3	1.57	0.69
1:K:396:ARG:O	1:K:396:ARG:HD3	1.92	0.69
1:L:415:ASN:OD1	1:L:415:ASN:C	2.31	0.69
1:L:769:GLN:NE2	1:L:872:ARG:H	1.91	0.69
1:L:807:ASP:H	1:L:858:SER:HA	1.57	0.69
1:L:829:THR:CG2	1:L:830:GLY:H	2.05	0.69
5:S:48:THR:HG22	5:S:48:THR:O	1.92	0.69
6:U:159:ARG:HB3	6:U:159:ARG:NH1	2.06	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:6:7:ALA:O	7:6:8:SER:HB3	1.91	0.69
1:A:22:GLU:OE1	7:2:19:MET:CE	2.40	0.69
1:B:358:LEU:CD2	1:B:942:ARG:NH2	2.55	0.69
1:B:380:TYR:CD2	1:B:387:ALA:HB2	2.28	0.69
1:C:64:LEU:CD1	1:C:621:PRO:HD3	2.23	0.69
1:C:193:PHE:CD1	1:C:284:TYR:CD1	2.80	0.69
1:C:203:ASN:CB	1:C:204:TRP:CE3	2.75	0.69
1:C:241:LYS:HZ2	1:C:256:ILE:CG1	2.02	0.69
1:C:262:ASP:CG	1:C:263:VAL:N	2.44	0.69
1:C:352:LEU:HD11	1:J:63:ARG:NE	2.05	0.69
1:C:380:TYR:CE1	1:C:387:ALA:HB1	2.28	0.69
1:C:669:SER:HA	1:C:899:HIS:O	1.91	0.69
1:D:118:GLY:N	1:E:403:VAL:O	2.24	0.69
1:D:207:ASN:OD1	1:D:207:ASN:O	2.09	0.69
1:D:828:PHE:CE1	1:F:125:ALA:HA	2.28	0.69
1:E:110:GLY:HA3	1:E:605:GLY:CA	2.22	0.69
1:E:126:PRO:HD3	1:F:828:PHE:CE2	2.26	0.69
1:E:449:GLN:CG	1:E:450:ASN:H	2.05	0.69
1:E:450:ASN:ND2	1:F:154:THR:O	2.24	0.69
1:E:485:TYR:CE2	1:E:528:PRO:HB3	2.27	0.69
1:E:623:ALA:HB3	1:E:626:THR:CG2	2.23	0.69
1:E:735:ASP:O	1:E:735:ASP:CG	2.30	0.69
1:F:20:ALA:O	7:4:9:LEU:HD13	1.93	0.69
1:F:255:ASP:O	1:F:256:ILE:CG1	2.40	0.69
1:F:930:GLN:HG2	1:F:930:GLN:O	1.92	0.69
1:G:134:GLN:NE2	1:G:151:LYS:HD2	2.06	0.69
1:G:169:ASN:HB3	1:I:432:ASN:CB	2.22	0.69
1:G:360:ASP:OD2	1:G:942:ARG:NH1	2.25	0.69
1:H:134:GLN:HB3	1:H:154:THR:HB	1.72	0.69
1:H:136:GLU:HB2	1:H:218:LYS:HE2	1.74	0.69
1:H:423:TYR:C	1:H:449:GLN:HG2	2.12	0.69
1:H:545:TYR:HE1	1:I:523:ARG:HH12	1.37	0.69
1:I:74:GLU:HG2	1:I:81:LYS:HB3	1.73	0.69
1:I:198:GLN:C	1:I:200:GLY:H	1.96	0.69
1:I:303:THR:O	1:I:303:THR:CG2	2.39	0.69
1:I:346:ALA:HB2	1:I:353:ASN:HA	1.73	0.69
1:I:451:GLN:O	1:I:452:ILE:HG12	1.91	0.69
1:I:465:GLN:OE1	1:I:465:GLN:HA	1.92	0.69
1:I:518:ILE:O	1:I:518:ILE:HG13	1.90	0.69
1:I:599:ASN:N	1:I:599:ASN:HD22	1.87	0.69
1:I:708:LEU:HD12	1:I:708:LEU:O	1.92	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:57:THR:HB	1:K:878:ASN:HD22	1.57	0.69
1:J:350:SER:O	1:J:352:LEU:N	2.25	0.69
1:J:413:PRO:HG2	1:J:417:THR:C	2.12	0.69
1:J:726:ASP:OD2	1:J:726:ASP:O	2.10	0.69
1:J:878:ASN:O	1:J:879:PHE:CB	2.35	0.69
1:J:902:ASP:N	1:J:902:ASP:OD2	2.22	0.69
1:K:732:PRO:CG	1:K:743:PHE:CE1	2.74	0.69
1:K:866:CYS:SG	1:K:869:VAL:CG1	2.79	0.69
1:K:911:ASP:O	1:K:911:ASP:CG	2.29	0.69
1:L:477:VAL:HG13	1:L:478:ALA:H	1.55	0.69
1:L:526:LEU:HD13	1:L:528:PRO:HD2	1.74	0.69
1:L:640:ASP:HB2	1:L:928:VAL:O	1.92	0.69
1:L:647:LEU:O	1:L:647:LEU:HD23	1.93	0.69
1:L:649:ALA:HB2	1:L:921:GLU:HA	1.75	0.69
2:N:39:ARG:O	2:N:104:SER:OG	2.11	0.69
2:N:202:LYS:NZ	2:N:452:ILE:O	2.26	0.69
4:M:170:VAL:HG22	4:M:179:TYR:CZ	2.27	0.69
4:M:178:VAL:C	4:M:179:TYR:CD1	2.66	0.69
5:R:1:MET:HE3	5:R:1:MET:N	2.08	0.69
6:U:2:SER:CB	6:U:200:PRO:HD2	2.21	0.69
7:3:18:PHE:O	7:3:18:PHE:CD2	2.45	0.69
1:A:412:PHE:CD2	1:A:459:ALA:HB2	2.28	0.69
1:B:24:LEU:HD23	1:B:28:LEU:HD23	1.75	0.69
1:B:942:ARG:CG	1:B:945:PHE:O	2.39	0.69
1:C:809:ILE:CG1	1:C:810:ASN:N	2.55	0.69
1:D:133:SER:HA	1:D:216:LEU:H	1.57	0.69
1:D:552:ASN:CB	1:E:522:ALA:HB2	2.23	0.69
1:E:46:ARG:HD2	1:F:644:ASN:ND2	2.07	0.69
1:E:150:GLU:HA	1:E:150:GLU:OE1	1.92	0.69
1:E:192:THR:O	1:E:193:PHE:CG	2.46	0.69
1:E:338:SER:C	1:E:340:GLY:H	1.95	0.69
1:E:344:VAL:CG2	1:E:353:ASN:HB2	2.23	0.69
1:F:405:ASP:OD1	1:F:405:ASP:C	2.26	0.69
1:F:520:ILE:HD12	1:F:520:ILE:N	2.08	0.69
1:F:813:ASP:OD2	1:F:813:ASP:N	2.22	0.69
1:G:328:ASP:O	1:G:329:ASN:HB2	1.90	0.69
1:G:799:GLN:HB2	1:G:865:LEU:O	1.92	0.69
1:H:28:LEU:O	1:H:28:LEU:HG	1.92	0.69
1:H:108:ASP:N	1:H:607:SER:HB2	2.07	0.69
1:H:620:PHE:HE2	1:H:622:MET:HG2	1.53	0.69
1:I:173:LEU:HD13	1:I:185:LYS:NZ	2.01	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:192:THR:HG21	1:I:214:ARG:NH1	2.05	0.69
1:I:524:TRP:CH2	1:I:863:LYS:HE3	2.27	0.69
1:J:276:GLU:C	1:L:440:TRP:CZ3	2.66	0.69
1:J:456:ASN:ND2	1:J:456:ASN:H	1.91	0.69
1:J:754:TYR:O	1:J:763:LYS:N	2.26	0.69
1:J:863:LYS:O	1:J:863:LYS:CD	2.41	0.69
1:K:498:THR:HG23	1:K:503:TYR:CD2	2.28	0.69
1:L:52:PRO:HB2	1:L:56:VAL:HG21	1.75	0.69
1:L:327:ARG:NH1	1:L:703:GLY:O	2.25	0.69
1:L:479:LEU:HD23	1:L:509:VAL:HG21	1.75	0.69
2:N:151:GLN:O	2:N:152:ASP:CG	2.31	0.69
5:R:95:ILE:HG12	5:R:99:GLU:OE2	1.92	0.69
1:A:153:VAL:HA	1:C:449:GLN:HB3	1.74	0.69
1:A:543:LEU:HD13	1:A:594:GLN:OE1	1.93	0.69
1:A:827:GLY:HA2	1:A:839:GLY:O	1.93	0.69
1:B:62:GLN:O	1:B:63:ARG:C	2.29	0.69
1:B:517:TYR:HE2	1:B:824:ASN:HD22	1.39	0.69
1:B:749:VAL:O	1:B:749:VAL:HG12	1.93	0.69
1:C:724:MET:CE	1:C:729:VAL:HB	2.20	0.69
1:D:233:THR:HG23	1:D:234:ASN:OD1	1.93	0.69
1:E:188:TYR:HA	1:E:192:THR:OG1	1.92	0.69
1:E:455:GLY:O	1:F:161:ALA:CB	2.41	0.69
1:E:722:SER:HA	1:E:742:GLU:HB3	1.74	0.69
1:G:155:LYS:HG3	1:G:261:PHE:CE2	2.27	0.69
1:G:427:LYS:CB	1:G:441:GLU:OE1	2.41	0.69
1:H:655:PRO:HG3	5:P:9:GLU:OE1	1.92	0.69
1:H:731:TRP:C	1:H:733:GLY:N	2.43	0.69
1:H:747:ARG:NH1	1:H:754:TYR:CB	2.56	0.69
1:J:89:GLY:O	1:J:92:ARG:HD3	1.93	0.69
1:J:113:PHE:HB2	1:J:324:ILE:CD1	2.23	0.69
1:J:321:PRO:O	1:J:322:ASN:HB3	1.93	0.69
1:J:461:GLU:O	1:K:411:CYS:HA	1.92	0.69
1:J:736:ARG:NH2	1:L:59:ASP:HA	2.08	0.69
1:K:354:ALA:O	1:K:940:TYR:OH	2.11	0.69
1:L:685:THR:HG23	1:L:686:LYS:N	2.08	0.69
2:N:178:ASN:HD21	2:N:203:PHE:H	1.39	0.69
4:M:168:LEU:HB3	4:M:172:GLU:OE2	1.93	0.69
1:A:424:GLN:HB2	1:A:446:ILE:HA	1.74	0.68
1:B:69:VAL:CG2	1:B:70:PRO:CD	2.68	0.68
1:B:134:GLN:CB	1:B:154:THR:O	2.40	0.68
1:B:333:LEU:HD23	1:B:333:LEU:H	1.58	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:513:LEU:HD13	1:B:819:LEU:CD1	2.23	0.68
1:B:714:LEU:HD21	1:B:910:MET:HE3	1.74	0.68
1:C:93:VAL:HG13	1:C:575:LEU:CD2	2.23	0.68
1:C:509:VAL:O	1:C:509:VAL:CG2	2.41	0.68
1:C:892:MET:HA	1:C:892:MET:CE	2.22	0.68
1:C:929:HIS:HD2	1:C:931:PRO:CD	2.04	0.68
1:D:135:TRP:HB2	1:D:307:SER:O	1.93	0.68
1:E:315:GLN:HE22	1:E:835:THR:HB	1.57	0.68
1:E:587:LYS:HG3	1:E:610:PHE:CE1	2.28	0.68
1:F:258:PHE:CE2	1:F:284:TYR:HE2	2.11	0.68
1:F:736:ARG:HH11	1:F:736:ARG:HG3	1.57	0.68
1:H:177:ASP:CG	1:H:178:GLU:N	2.47	0.68
1:H:201:GLU:HG2	1:H:202:GLU:H	1.57	0.68
1:J:94:LEU:CD2	1:J:574:LEU:HD12	2.23	0.68
1:J:152:ASP:OD1	1:L:443:ASP:O	2.11	0.68
1:J:880:MET:HG2	1:J:880:MET:O	1.92	0.68
1:K:738:LEU:HD13	1:K:754:TYR:CD2	2.27	0.68
2:N:136:VAL:HG13	2:N:137:SER:H	1.58	0.68
2:N:424:TYR:HB2	2:N:461:ILE:HA	1.75	0.68
5:Q:34:SER:O	5:Q:35:THR:O	2.11	0.68
1:A:294:ASP:O	1:A:319:ASN:HB2	1.92	0.68
1:A:510:ALA:HB2	1:A:832:LEU:CD1	2.22	0.68
1:B:155:LYS:HZ1	1:B:259:ALA:CB	1.93	0.68
1:B:329:ASN:HD21	1:B:386:SER:CB	2.06	0.68
1:B:358:LEU:HD23	1:B:942:ARG:NH2	2.08	0.68
1:B:380:TYR:CD2	1:B:387:ALA:CB	2.76	0.68
1:C:500:THR:O	1:C:502:GLU:N	2.27	0.68
1:C:746:LYS:O	1:C:748:SER:N	2.25	0.68
1:C:842:TYR:CD1	1:C:843:PRO:HD2	2.28	0.68
1:D:646:TYR:CE2	7:4:4:ILE:HG21	2.29	0.68
1:E:762:THR:HG22	1:E:764:ASP:H	1.56	0.68
1:F:136:GLU:CD	1:F:218:LYS:CE	2.54	0.68
1:F:915:LEU:HD12	1:F:915:LEU:O	1.93	0.68
1:G:196:GLU:N	1:G:197:PRO:HD2	2.08	0.68
1:G:721:VAL:HG21	1:G:905:PHE:CE1	2.28	0.68
1:I:155:LYS:HG3	1:I:261:PHE:CZ	2.28	0.68
1:K:429:THR:CG2	1:K:430:ASN:ND2	2.49	0.68
1:K:515:ASP:O	1:K:517:TYR:N	2.26	0.68
1:K:572:LEU:O	1:K:572:LEU:CG	2.41	0.68
1:L:107:LEU:O	1:L:556:VAL:HG22	1.92	0.68
1:L:525:SER:CB	1:L:801:MET:CE	2.71	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Q:12:LEU:HD11	5:Q:15:PRO:CG	2.20	0.68
1:A:193:PHE:HE2	1:A:284:TYR:CD1	2.09	0.68
1:A:731:TRP:CE3	1:A:732:PRO:HD3	2.28	0.68
1:A:822:GLN:CD	1:A:846:PHE:CE1	2.66	0.68
1:B:435:ALA:CB	1:C:270:ALA:HB1	2.23	0.68
1:C:734:ASN:OD1	1:C:735:ASP:N	2.24	0.68
1:C:916:LEU:HD21	1:C:918:LEU:HB2	1.73	0.68
1:D:107:LEU:HD11	1:D:593:LEU:HD21	1.73	0.68
1:E:36:ASP:O	1:E:36:ASP:CG	2.32	0.68
1:E:300:LYS:HG2	1:E:301:PRO:HD2	1.74	0.68
1:E:453:CYS:CB	1:F:159:VAL:HG13	2.21	0.68
1:F:21:SER:CB	7:4:11:PRO:HG2	2.07	0.68
1:F:517:TYR:CD1	1:F:847:PRO:HG3	2.28	0.68
1:F:758:GLN:C	1:F:862:LYS:NZ	2.47	0.68
1:F:827:GLY:CA	1:F:839:GLY:C	2.59	0.68
1:F:856:VAL:CG2	1:F:857:PRO:CD	2.70	0.68
1:G:135:TRP:CZ2	1:G:153:VAL:HG12	2.28	0.68
1:G:166:ASN:HA	1:G:210:PHE:CE1	2.28	0.68
1:H:943:THR:CB	1:H:944:PRO:CD	2.72	0.68
1:I:705:ILE:O	1:I:705:ILE:HG13	1.91	0.68
1:J:96:MET:N	1:J:572:LEU:O	2.19	0.68
1:J:153:VAL:HG13	1:L:449:GLN:CG	2.23	0.68
1:J:396:ARG:HH11	1:J:396:ARG:HG2	1.57	0.68
1:J:409:ASN:HB3	1:L:467:ASN:OD1	1.93	0.68
1:J:779:GLN:HE21	1:J:779:GLN:CA	2.06	0.68
1:K:81:LYS:HB3	1:K:584:ASN:CB	2.13	0.68
1:K:159:VAL:HG12	1:L:840:GLN:HB2	1.74	0.68
1:K:201:GLU:OE2	1:L:835:THR:HB	1.93	0.68
1:K:281:ILE:O	1:K:281:ILE:HG13	1.92	0.68
1:K:731:TRP:N	1:K:732:PRO:CD	2.56	0.68
1:K:806:VAL:HG12	1:K:806:VAL:O	1.92	0.68
1:K:837:ARG:HD3	1:L:459:ALA:CB	2.23	0.68
5:P:62:THR:OG1	5:P:65:ALA:HB3	1.94	0.68
6:V:13:TYR:CD1	6:V:188:PHE:CG	2.81	0.68
1:A:217:LYS:HG2	1:A:285:THR:HG22	1.76	0.68
1:A:356:VAL:O	1:A:356:VAL:CG1	2.41	0.68
1:B:573:LEU:HB3	1:B:641:GLN:HE21	1.58	0.68
1:C:53:THR:HG22	1:C:53:THR:O	1.93	0.68
1:C:494:LEU:HD13	1:C:503:TYR:CD1	2.27	0.68
1:C:842:TYR:CG	1:C:843:PRO:CD	2.75	0.68
1:D:281:ILE:O	1:D:281:ILE:HG23	1.94	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:770:MET:O	1:D:774:TYR:O	2.10	0.68
1:D:806:VAL:HG13	1:D:856:VAL:CG2	2.24	0.68
1:F:241:LYS:CD	1:F:286:GLU:HG3	2.24	0.68
1:F:366:SER:HB2	1:F:647:LEU:HB3	1.74	0.68
1:F:424:GLN:HE21	1:F:440:TRP:HB2	1.57	0.68
1:G:154:THR:O	1:I:450:ASN:OD1	2.12	0.68
1:G:202:GLU:CG	1:H:313:VAL:HG11	2.23	0.68
1:G:804:GLN:HE22	1:I:556:VAL:HG12	1.59	0.68
1:H:83:ARG:HG3	1:H:582:GLU:HB3	1.73	0.68
1:H:915:LEU:O	1:H:915:LEU:HD12	1.92	0.68
1:I:343:GLY:O	1:I:355:VAL:HG11	1.91	0.68
1:I:532:VAL:O	1:I:534:PRO:HD3	1.94	0.68
1:K:88:VAL:O	1:K:89:GLY:C	2.32	0.68
1:K:478:ALA:C	1:K:480:TYR:H	1.97	0.68
1:L:24:LEU:HD12	1:L:24:LEU:N	2.09	0.68
1:L:659:LYS:HG2	1:L:659:LYS:O	1.94	0.68
1:L:681:THR:HG22	1:L:682:ARG:N	2.07	0.68
5:Q:14:SER:O	5:R:15:PRO:CB	2.40	0.68
5:Q:35:THR:HG22	5:Q:40:PRO:CD	2.24	0.68
5:Q:36:VAL:N	5:Q:43:PRO:HG2	2.08	0.68
6:U:4:GLU:C	6:U:6:PRO:HD3	2.12	0.68
1:A:198:GLN:HG2	1:B:838:GLN:CA	2.23	0.68
1:B:80:TYR:O	1:B:584:ASN:CB	2.42	0.68
1:B:331:VAL:O	1:B:331:VAL:HG23	1.92	0.68
1:B:358:LEU:HD13	1:B:361:ARG:NH2	2.08	0.68
1:B:415:ASN:HD21	1:B:418:GLY:N	1.92	0.68
1:B:775:ASN:CG	1:B:880:MET:SD	2.71	0.68
1:D:364:GLU:HA	1:D:364:GLU:OE1	1.93	0.68
1:D:515:ASP:HB3	1:D:517:TYR:CE2	2.28	0.68
1:E:88:VAL:CG2	1:E:576:PRO:HA	2.23	0.68
1:E:192:THR:HG23	1:E:284:TYR:CD1	2.17	0.68
1:E:486:LYS:HB3	1:E:509:VAL:CG1	2.22	0.68
1:E:784:PRO:HD2	1:E:795:PHE:CE2	2.29	0.68
1:F:135:TRP:HZ2	1:F:156:THR:HG21	1.58	0.68
1:G:263:VAL:HG12	1:G:264:PRO:HD2	1.74	0.68
1:G:662:ASN:HD22	1:G:663:VAL:H	1.41	0.68
1:H:481:LEU:HD23	1:H:529:MET:HG2	1.75	0.68
1:I:113:PHE:CZ	1:I:115:PRO:HG3	2.28	0.68
1:J:170:GLN:CD	1:J:185:LYS:HG3	2.14	0.68
1:J:313:VAL:HG23	1:J:313:VAL:O	1.92	0.68
1:K:73:ARG:CZ	1:K:612:SER:HB2	2.23	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:198:GLN:O	1:L:838:GLN:HB2	1.94	0.68
1:K:241:LYS:HD2	1:K:256:ILE:CD1	1.94	0.68
1:K:831:TYR:CB	1:K:838:GLN:NE2	2.56	0.68
2:N:291:LYS:HG2	2:N:295:GLU:OE2	1.93	0.68
2:N:326:VAL:HB	3:O:7:VAL:HG21	1.73	0.68
5:R:41:VAL:O	5:R:43:PRO:HD3	1.94	0.68
1:A:1:MET:O	1:A:2:ALA:O	2.12	0.68
1:A:160:ALA:HB3	1:C:454:LYS:HA	1.76	0.68
1:A:467:ASN:HB3	1:B:409:ASN:OD1	1.93	0.68
1:A:832:LEU:O	1:A:833:ALA:HB2	1.92	0.68
1:B:46:ARG:HD3	1:C:644:ASN:HD22	1.57	0.68
1:B:435:ALA:CB	1:C:270:ALA:HB2	2.10	0.68
1:C:121:TYR:HE1	1:C:293:PRO:HG2	1.56	0.68
1:C:589:VAL:HG23	1:C:593:LEU:HD12	1.75	0.68
1:D:117:SER:CB	1:E:403:VAL:O	2.41	0.68
1:E:309:GLU:O	1:E:311:ASN:N	2.27	0.68
1:E:440:TRP:CE2	1:F:276:GLU:OE2	2.46	0.68
1:E:675:PHE:O	1:E:875:PHE:CD2	2.46	0.68
1:E:741:ASN:HD22	1:E:742:GLU:HG3	1.58	0.68
1:F:384:TRP:HA	1:F:384:TRP:HE3	1.58	0.68
1:G:417:THR:HG22	1:G:419:THR:HG22	1.75	0.68
1:G:566:PHE:HB3	1:G:569:ILE:HG22	1.76	0.68
1:I:118:GLY:O	1:I:119:THR:C	2.30	0.68
1:I:267:SER:CA	1:I:276:GLU:HA	2.23	0.68
1:J:367:TYR:CD2	1:J:565:LYS:HD3	2.27	0.68
1:J:745:ILE:HA	1:J:765:TRP:CD1	2.29	0.68
1:K:345:LEU:CD2	1:K:581:TYR:HD1	2.07	0.68
1:K:929:HIS:HB2	6:U:40:MET:CE	2.24	0.68
1:L:20:ALA:C	7:9:9:LEU:HD13	2.09	0.68
1:L:103:ILE:HG23	1:L:610:PHE:CD2	2.28	0.68
2:N:410:VAL:HG12	2:N:496:ARG:NH2	2.08	0.68
1:B:80:TYR:O	1:B:585:PHE:N	2.26	0.68
1:B:135:TRP:CE2	1:B:156:THR:HG21	2.29	0.68
1:C:515:ASP:O	1:C:518:ILE:HG23	1.92	0.68
1:C:723:ILE:HG13	1:C:903:MET:HB3	1.76	0.68
1:C:811:TYR:HD1	1:C:857:PRO:HD2	1.57	0.68
1:D:736:ARG:O	1:F:64:LEU:CB	2.42	0.68
1:D:922:VAL:HA	1:D:944:PRO:HG2	1.74	0.68
1:E:77:THR:CA	5:P:76:ARG:HH22	2.04	0.68
1:E:438:SER:O	1:E:440:TRP:CE3	2.45	0.68
1:E:460:MET:HB3	1:F:413:PRO:HA	1.74	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:608:VAL:HG21	1:E:610:PHE:CE1	2.28	0.68
1:E:709:ASP:HB2	1:E:711:THR:HG22	1.74	0.68
1:F:674:ALA:CB	1:F:943:THR:HG21	2.24	0.68
1:G:188:TYR:CE1	1:G:256:ILE:HD13	2.29	0.68
1:G:246:ASN:O	1:G:247:GLU:C	2.29	0.68
1:H:103:ILE:CG2	1:H:610:PHE:HD1	2.07	0.68
1:H:214:ARG:NH2	1:H:286:GLU:OE1	2.26	0.68
1:J:384:TRP:HA	1:J:384:TRP:CE3	2.27	0.68
1:K:136:GLU:HB3	1:K:151:LYS:HA	1.75	0.68
1:K:287:ASN:HD22	1:K:287:ASN:H	1.40	0.68
1:K:403:VAL:HG22	1:K:465:GLN:HG3	1.74	0.68
1:K:805:VAL:O	1:K:858:SER:HB2	1.94	0.68
1:L:720:LYS:CD	1:L:742:GLU:CD	2.56	0.68
1:L:905:PHE:CD1	1:L:916:LEU:CD2	2.76	0.68
5:Q:44:ALA:O	5:Q:45:ASN:C	2.31	0.68
7:1:30:LEU:HG	7:1:31:ASN:N	2.07	0.68
7:8:21:THR:HG22	7:8:21:THR:O	1.94	0.68
1:C:170:GLN:HB3	1:C:185:LYS:HG3	1.76	0.68
1:C:196:GLU:H	1:C:197:PRO:HD2	1.58	0.68
1:C:261:PHE:CE1	1:C:283:LEU:HD12	2.28	0.68
1:C:633:MET:HE3	6:U:171:LEU:HD22	1.74	0.68
1:D:38:TYR:CZ	1:E:56:VAL:CG1	2.60	0.68
1:D:428:ILE:HG22	1:E:278:LYS:NZ	2.09	0.68
1:D:771:LEU:HD13	1:D:777:GLY:HA3	1.75	0.68
1:E:243:LYS:HD3	1:E:253:ASP:O	1.94	0.68
1:E:644:ASN:CB	1:E:925:VAL:CG1	2.64	0.68
1:E:682:ARG:NH1	1:E:910:MET:CE	2.57	0.68
1:E:929:HIS:CG	6:U:161:SER:HB3	2.29	0.68
1:G:637:ASP:OD2	1:G:637:ASP:C	2.28	0.68
1:H:203:ASN:HA	1:I:836:MET:HE1	1.74	0.68
1:I:428:ILE:HG13	1:I:429:THR:N	2.06	0.68
1:I:640:ASP:OD1	1:I:640:ASP:N	2.25	0.68
1:I:648:SER:HB2	1:I:922:VAL:O	1.94	0.68
1:J:358:LEU:HD22	1:J:942:ARG:NH1	2.08	0.68
1:J:569:ILE:HG22	1:J:569:ILE:O	1.94	0.68
1:J:908:ASP:HB2	1:J:909:PRO:CD	2.23	0.68
1:K:239:GLN:OE1	1:L:845:ASN:HB3	1.94	0.68
1:K:433:ASP:O	1:K:433:ASP:CG	2.31	0.68
1:K:818:THR:O	1:K:822:GLN:HG2	1.94	0.68
1:K:853:GLN:H	1:K:853:GLN:CD	1.97	0.68
1:L:108:ASP:CB	1:L:555:TYR:H	2.03	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:526:LEU:HD22	1:L:527:ASP:H	1.58	0.68
1:L:718:PHE:HB2	1:L:745:ILE:CD1	2.23	0.68
2:N:223:VAL:HG12	2:N:224:TYR:O	1.94	0.68
2:N:240:GLY:HA3	2:N:267:MET:CE	2.23	0.68
5:P:36:VAL:HG22	5:P:43:PRO:CB	2.23	0.68
6:U:71:PRO:C	6:U:73:ASN:N	2.39	0.68
6:U:169:LEU:CD1	7:1:29:GLN:C	2.60	0.68
1:A:367:TYR:CD2	1:A:565:LYS:CD	2.76	0.68
1:B:93:VAL:HG11	1:B:575:LEU:CD2	2.21	0.68
1:B:154:THR:OG1	1:B:155:LYS:N	2.24	0.68
1:B:226:TYR:O	1:B:226:TYR:CD2	2.46	0.68
1:B:315:GLN:NE2	1:B:836:MET:CE	2.56	0.68
1:D:7:MET:O	1:D:10:TRP:CB	2.42	0.68
1:D:298:VAL:HG22	1:D:317:MET:HG2	1.75	0.68
1:D:410:TYR:O	1:F:462:ILE:HG13	1.93	0.68
1:D:567:PHE:CG	1:D:645:ASP:HB3	2.28	0.68
1:E:65:THR:HG21	1:F:738:LEU:HD11	1.74	0.68
1:E:770:MET:HG3	1:E:776:ILE:HG13	1.76	0.68
1:F:47:ASN:OD1	7:4:7:ALA:CB	2.39	0.68
1:F:298:VAL:HG12	1:F:315:GLN:C	2.11	0.68
1:G:426:VAL:O	1:H:260:TYR:HB2	1.93	0.68
1:G:573:LEU:H	1:G:641:GLN:HE21	1.41	0.68
1:H:107:LEU:HD11	1:H:593:LEU:CD2	2.24	0.68
1:H:333:LEU:CD2	1:H:562:VAL:HG11	2.24	0.68
1:H:829:THR:O	1:H:837:ARG:HA	1.92	0.68
1:H:924:ASP:C	1:H:925:VAL:HG13	2.14	0.68
1:I:240:ALA:HB3	1:I:288:VAL:HB	1.75	0.68
1:J:266:GLY:HA2	1:J:277:TYR:CD2	2.29	0.68
1:J:474:TYR:O	1:J:478:ALA:HB3	1.94	0.68
1:J:892:MET:HA	1:J:892:MET:HE2	1.76	0.68
1:K:432:ASN:O	1:K:437:GLU:CD	2.32	0.68
1:K:621:PRO:HD2	1:L:778:TYR:CE2	2.29	0.68
1:L:77:THR:HB	5:Q:76:ARG:NH2	2.08	0.68
1:L:255:ASP:C	1:L:256:ILE:HG13	2.13	0.68
1:L:704:SER:OG	1:L:711:THR:HG21	1.94	0.68
1:L:747:ARG:HB2	1:L:762:THR:CG2	2.23	0.68
4:M:221:THR:CG2	4:M:222:VAL:N	2.54	0.68
4:M:388:TRP:CA	4:M:390:PRO:HD3	2.23	0.68
6:U:183:ILE:HG12	6:U:187:GLN:CB	2.24	0.68
6:V:210:ASP:C	6:V:212:PHE:H	1.94	0.68
7:7:26:GLY:O	7:7:28:SER:N	2.27	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:237:GLY:HA3	1:B:821:PHE:CB	2.24	0.68
1:B:110:GLY:HA3	1:B:605:GLY:HA3	1.76	0.68
1:C:365:LEU:HD12	1:C:710:GLY:HA2	1.75	0.68
1:C:825:ASN:H	1:C:844:ALA:CB	2.07	0.68
1:E:206:GLU:O	1:E:206:GLU:HG3	1.85	0.68
1:E:241:LYS:HD2	1:E:254:LEU:CD1	2.22	0.68
1:E:426:VAL:HG23	1:F:260:TYR:HB2	1.74	0.68
1:F:564:GLN:NE2	1:F:566:PHE:N	2.37	0.68
1:F:586:ARG:HH11	1:F:586:ARG:HG3	1.58	0.68
1:F:789:ASP:OD2	1:F:789:ASP:C	2.31	0.68
1:G:56:VAL:CG1	1:I:38:TYR:CE1	2.77	0.68
1:I:138:LYS:HE2	1:I:149:GLN:NE2	2.09	0.68
1:I:229:PHE:O	1:I:229:PHE:HD2	1.76	0.68
1:J:31:PHE:CZ	1:K:630:LEU:HB2	2.28	0.68
1:J:66:LEU:CD1	1:J:66:LEU:H	2.06	0.68
1:J:266:GLY:HA2	1:J:277:TYR:HD2	1.58	0.68
1:J:721:VAL:HG13	1:J:905:PHE:HA	1.76	0.68
1:J:724:MET:CE	5:Q:20:ARG:NH1	2.57	0.68
1:J:730:SER:OG	1:J:741:ASN:O	2.10	0.68
1:J:851:ILE:HD13	1:L:116:TYR:HE2	1.58	0.68
1:K:194:GLN:HG3	1:K:197:PRO:CG	2.24	0.68
1:K:720:LYS:CE	1:K:742:GLU:OE2	2.42	0.68
1:K:842:TYR:CG	1:K:843:PRO:HD2	2.28	0.68
1:L:33:ARG:HD3	7:9:12:ARG:HB2	1.76	0.68
1:L:294:ASP:HA	1:L:319:ASN:HD22	1.59	0.68
2:N:286:LEU:HD21	3:O:17:TYR:CD2	2.29	0.68
4:M:138:LEU:HA	4:M:170:VAL:HG11	1.75	0.68
5:P:14:SER:HB2	5:P:15:PRO:HD3	1.72	0.68
5:P:41:VAL:N	5:P:43:PRO:HD3	2.09	0.68
5:Q:35:THR:CG2	5:Q:40:PRO:HG3	2.23	0.68
6:U:11:TRP:CZ2	6:U:69:LEU:HD21	2.29	0.68
6:U:168:TYR:O	7:1:31:ASN:HB3	1.94	0.68
1:A:51:ALA:HB1	1:B:882:MET:HB2	1.75	0.67
1:A:195:PRO:O	1:B:826:SER:HB2	1.95	0.67
1:A:409:ASN:HB2	1:C:467:ASN:HD21	1.57	0.67
1:A:682:ARG:NH2	1:A:907:VAL:HG21	2.10	0.67
1:B:38:TYR:HH	7:1:24:GLU:CD	1.97	0.67
1:B:725:PHE:CE1	1:B:901:LEU:HD13	2.28	0.67
1:D:222:MET:HE2	1:D:307:SER:CA	2.24	0.67
1:D:622:MET:HG3	1:D:627:ALA:HB2	1.76	0.67
1:D:713:TYR:C	1:D:713:TYR:CD1	2.68	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:155:LYS:HZ2	1:E:261:PHE:HE1	0.71	0.67
1:E:649:ALA:CB	1:E:920:PHE:O	2.40	0.67
1:F:20:ALA:HB2	1:F:47:ASN:HB3	1.76	0.67
1:F:222:MET:HG2	1:F:307:SER:OG	1.95	0.67
1:F:267:SER:N	1:F:277:TYR:CD2	2.62	0.67
1:F:674:ALA:HB3	1:F:943:THR:CG2	2.24	0.67
1:F:807:ASP:HB2	1:F:859:VAL:CG1	2.24	0.67
1:G:33:ARG:HG2	1:G:33:ARG:NH1	2.09	0.67
1:G:161:ALA:CB	1:G:198:GLN:CG	2.72	0.67
1:I:409:ASN:ND2	1:I:464:LEU:HG	2.08	0.67
1:J:166:ASN:O	1:J:173:LEU:HB3	1.94	0.67
1:J:196:GLU:OE2	1:K:823:HIS:CB	2.40	0.67
1:J:746:LYS:O	1:J:746:LYS:CG	2.40	0.67
1:J:778:TYR:HE2	1:L:620:PHE:HA	1.59	0.67
6:U:3:LYS:O	6:U:5:ILE:N	2.27	0.67
7:3:26:GLY:O	7:3:27:THR:C	2.31	0.67
7:6:22:TRP:HZ2	7:6:25:ILE:HD13	1.58	0.67
7:8:18:PHE:CD1	7:8:18:PHE:O	2.48	0.67
1:A:198:GLN:OE1	1:B:839:GLY:N	2.26	0.67
1:B:9:GLN:CB	6:U:16:GLN:HA	2.23	0.67
1:B:127:LYS:CE	1:C:405:ASP:OD2	2.41	0.67
1:C:194:GLN:C	1:C:196:GLU:H	1.97	0.67
1:C:731:TRP:HE1	1:C:875:PHE:HE1	0.74	0.67
1:C:732:PRO:HB3	1:C:879:PHE:HZ	1.59	0.67
1:C:812:LYS:O	1:C:814:TYR:N	2.25	0.67
1:D:406:GLU:OE1	1:F:479:LEU:HD11	1.94	0.67
1:D:635:ARG:HG3	1:D:635:ARG:NH1	2.09	0.67
1:D:781:PHE:O	1:F:381:PHE:HE2	1.76	0.67
1:E:500:THR:HG22	1:E:502:GLU:HG2	1.74	0.67
1:E:811:TYR:CZ	1:E:856:VAL:HG12	2.29	0.67
1:G:78:TYR:HB3	1:G:695:PHE:HE1	1.59	0.67
1:H:199:VAL:HG12	1:H:199:VAL:O	1.93	0.67
1:I:52:PRO:HD3	7:5:23:ASN:HB2	1.75	0.67
1:I:797:ASN:N	1:I:797:ASN:ND2	2.39	0.67
1:I:916:LEU:HD22	1:I:917:TYR:N	2.09	0.67
1:J:438:SER:HB3	1:K:278:LYS:HB2	1.75	0.67
1:J:754:TYR:O	1:J:763:LYS:CB	2.42	0.67
1:L:218:LYS:HG2	1:L:219:ASP:N	2.08	0.67
1:L:653:LEU:HD12	1:L:653:LEU:H	1.60	0.67
1:L:921:GLU:OE1	1:L:921:GLU:HA	1.93	0.67
2:N:66:ILE:CD1	2:N:81:THR:HB	2.24	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:221:THR:C	4:M:223:SER:H	1.97	0.67
4:M:317:GLU:HG2	4:M:320:LEU:HD12	1.75	0.67
1:A:564:GLN:NE2	1:A:569:ILE:HB	2.08	0.67
1:A:689:PRO:HD3	1:A:705:ILE:HG23	1.77	0.67
1:B:196:GLU:CG	1:C:831:TYR:HE1	2.02	0.67
1:B:198:GLN:HG3	1:C:839:GLY:HA2	1.77	0.67
1:C:357:ASP:OD2	1:C:566:PHE:CZ	2.47	0.67
1:C:575:LEU:HB3	1:C:576:PRO:CD	2.24	0.67
1:C:723:ILE:O	1:C:729:VAL:HG23	1.94	0.67
1:D:113:PHE:HB2	1:D:324:ILE:HD12	1.76	0.67
1:D:198:GLN:HE22	1:F:456:ASN:HD21	1.42	0.67
1:E:117:SER:HA	1:E:321:PRO:HB3	1.77	0.67
1:F:498:THR:HB	1:F:503:TYR:CE2	2.30	0.67
1:G:497:ASN:HD22	5:R:85:SER:HA	1.59	0.67
1:G:849:PRO:O	1:G:855:ALA:HA	1.94	0.67
1:H:72:ASP:OD1	1:H:83:ARG:HB3	1.94	0.67
1:H:888:LEU:O	1:H:890:GLN:N	2.25	0.67
1:I:74:GLU:CG	1:I:81:LYS:HB3	2.25	0.67
1:I:737:LEU:HD11	1:I:743:PHE:CD2	2.30	0.67
1:K:66:LEU:HD12	1:K:619:PHE:CZ	2.29	0.67
1:K:172:LEU:CG	1:K:193:PHE:HZ	2.06	0.67
1:K:231:ARG:O	1:K:240:ALA:HB2	1.94	0.67
1:K:817:VAL:O	1:K:817:VAL:HG23	1.95	0.67
1:L:267:SER:C	1:L:277:TYR:HD2	1.98	0.67
1:L:294:ASP:CA	1:L:319:ASN:HD22	2.07	0.67
1:L:309:GLU:HA	1:L:312:LEU:HB2	1.75	0.67
5:P:10:GLY:HA2	5:P:13:PHE:CD2	2.29	0.67
1:A:197:PRO:HD3	1:B:831:TYR:CD1	2.28	0.67
1:A:825:ASN:HD21	1:C:124:LEU:HG	1.59	0.67
1:C:476:ASN:O	1:C:480:TYR:CD2	2.41	0.67
1:D:6:MET:HE3	1:D:9:GLN:HB3	1.74	0.67
1:D:150:GLU:HA	1:D:150:GLU:OE1	1.94	0.67
1:D:269:PRO:HA	1:D:274:GLY:O	1.94	0.67
1:D:428:ILE:HG22	1:E:278:LYS:HZ1	1.58	0.67
1:E:296:HIS:O	1:E:316:SER:HB2	1.94	0.67
1:E:333:LEU:CD1	1:E:592:ILE:HG21	2.23	0.67
1:F:134:GLN:HG2	1:F:155:LYS:HA	1.75	0.67
1:G:443:ASP:HA	1:H:150:GLU:HG2	1.76	0.67
1:G:456:ASN:OD1	1:H:200:GLY:HA3	1.94	0.67
1:H:20:ALA:C	7:5:9:LEU:CD1	2.61	0.67
1:H:205:GLN:HA	1:H:205:GLN:OE1	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:134:GLN:HG2	1:I:155:LYS:HD3	1.75	0.67
1:I:172:LEU:HA	1:I:282:ILE:HD11	1.76	0.67
1:I:174:LEU:CD1	1:I:191:LYS:CE	2.72	0.67
1:J:80:TYR:O	1:J:585:PHE:N	2.25	0.67
1:J:191:LYS:HB2	1:J:194:GLN:HE21	1.59	0.67
1:J:400:ASN:HD21	1:J:520:ILE:CA	2.02	0.67
1:J:806:VAL:CG2	1:J:856:VAL:CG2	2.72	0.67
1:J:811:TYR:O	1:J:812:LYS:HB3	1.93	0.67
1:J:922:VAL:HB	1:J:944:PRO:HD2	1.76	0.67
1:K:6:MET:SD	6:V:82:GLU:HG2	2.35	0.67
1:K:295:THR:CG2	1:K:318:PRO:HA	2.24	0.67
1:K:344:VAL:HA	1:K:353:ASN:HD21	1.59	0.67
1:L:62:GLN:O	1:L:63:ARG:O	2.12	0.67
1:L:155:LYS:CE	1:L:285:THR:HG21	2.23	0.67
1:L:249:GLU:CG	1:L:250:GLN:N	2.57	0.67
1:L:333:LEU:HB2	1:L:592:ILE:HG21	1.77	0.67
2:N:40:ASN:HB3	2:N:513:VAL:HG21	1.76	0.67
5:R:32:MET:O	5:R:33:GLY:C	2.33	0.67
6:V:13:TYR:CD1	6:V:188:PHE:CD1	2.82	0.67
1:A:534:PRO:HD2	1:A:713:TYR:CD2	2.29	0.67
1:A:684:LYS:HA	1:A:914:THR:HG22	1.75	0.67
1:A:715:ASN:ND2	1:A:870:MET:H	1.93	0.67
1:A:875:PHE:O	1:A:886:THR:HG21	1.94	0.67
1:B:22:GLU:HB2	6:U:177:GLU:HB2	1.75	0.67
1:B:569:ILE:HA	1:B:572:LEU:HD22	1.77	0.67
1:C:174:LEU:CD1	1:C:191:LYS:HZ1	2.08	0.67
1:C:498:THR:O	1:C:499:ASN:OD1	2.11	0.67
1:D:751:GLY:O	1:F:104:ARG:NH1	2.28	0.67
1:D:917:TYR:O	1:D:917:TYR:CG	2.46	0.67
1:E:134:GLN:CG	1:E:154:THR:OG1	2.42	0.67
1:E:155:LYS:HZ3	1:E:283:LEU:HB3	1.58	0.67
1:F:134:GLN:CB	1:F:155:LYS:H	2.04	0.67
1:F:410:TYR:HA	1:F:461:GLU:HB3	1.75	0.67
1:F:486:LYS:HG2	1:F:509:VAL:CG1	2.24	0.67
1:F:684:LYS:HE3	1:F:912:GLU:OE1	1.94	0.67
1:G:73:ARG:NH2	1:G:611:ASP:O	2.27	0.67
1:G:476:ASN:HB3	1:G:537:HIS:NE2	2.10	0.67
1:G:609:ARG:O	1:G:609:ARG:HG2	1.94	0.67
1:G:667:ILE:HG21	1:G:670:ARG:HG3	1.75	0.67
1:H:100:TYR:O	1:H:100:TYR:HD1	1.77	0.67
1:H:362:ASN:ND2	1:H:365:LEU:HB3	2.09	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:672:TRP:CH2	1:H:945:PHE:HZ	2.13	0.67
1:H:749:VAL:O	5:R:55:GLY:HA3	1.94	0.67
1:H:863:LYS:HA	5:R:54:VAL:HG23	1.77	0.67
1:I:524:TRP:CZ2	1:I:527:ASP:OD2	2.48	0.67
1:J:151:LYS:CA	1:J:154:THR:OG1	2.43	0.67
1:J:384:TRP:HA	1:J:384:TRP:HE3	1.58	0.67
1:J:452:ILE:HG23	1:K:158:GLY:HA3	1.75	0.67
1:J:461:GLU:HA	1:J:461:GLU:OE1	1.95	0.67
1:J:773:HIS:ND1	1:J:872:ARG:NH2	2.43	0.67
1:K:82:ALA:CB	1:K:613:VAL:HG21	2.24	0.67
1:K:774:TYR:O	1:K:775:ASN:HB2	1.93	0.67
1:K:802:SER:HB3	1:K:862:LYS:HB3	1.77	0.67
1:L:107:LEU:HD11	1:L:607:SER:HB2	1.76	0.67
6:U:13:TYR:CE1	6:U:188:PHE:CB	2.77	0.67
6:U:33:TRP:HE3	6:U:33:TRP:O	1.78	0.67
6:U:208:TYR:CB	6:U:209:PRO:CD	2.56	0.67
1:A:39:PHE:HZ	1:B:573:LEU:HD21	1.60	0.67
1:A:214:ARG:HG3	1:B:842:TYR:CZ	2.28	0.67
1:A:242:PHE:HD1	1:A:287:ASN:O	1.76	0.67
1:B:116:TYR:HB3	1:C:520:ILE:CG2	2.23	0.67
1:B:197:PRO:CA	1:C:831:TYR:CD1	2.78	0.67
1:B:204:TRP:HE1	1:B:415:ASN:HB2	0.55	0.67
1:B:380:TYR:HD2	1:B:387:ALA:HB2	1.58	0.67
1:C:169:ASN:N	1:C:169:ASN:HD22	1.92	0.67
1:C:734:ASN:O	1:C:736:ARG:CD	2.43	0.67
1:E:41:LEU:HD23	1:E:41:LEU:H	1.58	0.67
1:E:135:TRP:CZ3	1:E:153:VAL:HG11	2.30	0.67
1:E:429:THR:HG22	1:E:430:ASN:OD1	1.94	0.67
1:F:267:SER:CB	1:F:277:TYR:CD2	2.50	0.67
1:F:640:ASP:HB3	1:F:928:VAL:O	1.94	0.67
1:F:670:ARG:NH1	1:H:727:SER:HB2	2.10	0.67
1:F:945:PHE:HD2	1:H:727:SER:HG	1.43	0.67
1:G:313:VAL:HA	1:I:203:ASN:HD22	1.55	0.67
1:G:687:GLU:HB3	1:G:701:TYR:CD2	2.30	0.67
1:H:353:ASN:HD21	1:H:355:VAL:N	1.92	0.67
1:I:137:THR:HG22	1:I:138:LYS:H	1.59	0.67
1:K:35:THR:HG22	7:8:24:GLU:HG3	1.75	0.67
1:K:249:GLU:O	1:K:250:GLN:HG2	1.89	0.67
1:K:526:LEU:HD13	1:K:528:PRO:HD2	1.77	0.67
1:K:544:ARG:HG3	1:K:545:TYR:N	2.09	0.67
1:L:103:ILE:H	1:L:103:ILE:HD12	1.59	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:640:ASP:CB	1:L:929:HIS:HA	2.25	0.67
4:M:336:ALA:CB	4:M:338:PRO:HD2	2.24	0.67
5:R:9:GLU:OE1	5:R:13:PHE:HB2	1.95	0.67
6:V:19:LEU:HD21	6:V:72:ARG:HA	1.76	0.67
1:A:381:PHE:HE1	1:B:795:PHE:HE1	1.40	0.67
1:A:417:THR:HG23	1:A:453:CYS:SG	2.33	0.67
1:B:409:ASN:ND2	1:B:464:LEU:CB	2.57	0.67
1:C:39:PHE:CE2	1:C:41:LEU:HD21	2.30	0.67
1:C:224:PRO:HG2	1:C:316:SER:OG	1.94	0.67
1:C:417:THR:HG21	1:C:453:CYS:HB2	1.76	0.67
1:C:729:VAL:O	1:C:729:VAL:HG22	1.93	0.67
1:D:49:THR:HG23	7:4:21:THR:HG22	1.77	0.67
1:D:202:GLU:CG	1:D:206:GLU:OE2	2.43	0.67
1:D:237:GLY:HA2	1:E:817:VAL:CG2	2.25	0.67
1:E:78:TYR:CE2	1:E:695:PHE:CG	2.83	0.67
1:E:586:ARG:HH11	1:E:591:MET:HG2	1.59	0.67
1:E:863:LYS:HG3	1:E:863:LYS:O	1.94	0.67
1:F:745:ILE:HD11	1:F:765:TRP:CZ2	2.30	0.67
1:F:754:TYR:HD2	1:F:754:TYR:N	1.92	0.67
1:G:370:LEU:HD23	1:G:570:LYS:NZ	2.10	0.67
1:G:461:GLU:O	1:H:411:CYS:HA	1.94	0.67
1:G:685:THR:CG2	1:G:913:PRO:HB2	2.20	0.67
1:G:837:ARG:NH2	1:H:456:ASN:HB2	2.08	0.67
1:H:12:TYR:CZ	1:I:927:ARG:HD3	2.29	0.67
1:H:451:GLN:NE2	1:I:157:PHE:HE1	1.92	0.67
1:J:713:TYR:HD2	1:J:713:TYR:H	1.40	0.67
1:J:812:LYS:O	1:J:812:LYS:HG3	1.93	0.67
1:K:10:TRP:HZ2	1:L:674:ALA:HB2	1.58	0.67
1:K:73:ARG:NH1	1:K:612:SER:HB3	2.09	0.67
1:K:602:ARG:NH2	1:K:696:ASP:O	2.27	0.67
1:K:620:PHE:HA	1:L:778:TYR:CE2	2.30	0.67
1:L:333:LEU:HB2	1:L:592:ILE:CG2	2.24	0.67
2:N:496:ARG:HG3	2:N:496:ARG:NH1	2.05	0.67
6:U:168:TYR:HB2	7:1:31:ASN:HB3	1.74	0.67
1:A:110:GLY:HA3	1:A:604:ASP:HB3	1.77	0.67
1:A:150:GLU:O	1:A:152:ASP:N	2.27	0.67
1:A:223:LYS:C	1:A:224:PRO:O	2.28	0.67
1:A:364:GLU:OE1	1:A:565:LYS:CE	2.42	0.67
1:A:807:ASP:HB2	1:A:858:SER:HA	1.77	0.67
1:B:152:ASP:O	1:B:154:THR:HG22	1.94	0.67
1:B:350:SER:O	1:B:350:SER:OG	2.10	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:636:ASN:ND2	4:M:16:SER:HB2	2.09	0.67
1:C:355:VAL:CG2	1:C:569:ILE:HD11	2.25	0.67
1:D:445:ALA:HB3	1:D:450:ASN:HD21	1.57	0.67
1:D:752:GLU:HG3	1:D:754:TYR:CE1	2.30	0.67
1:E:174:LEU:CG	1:E:186:ASP:OD1	2.43	0.67
1:F:585:PHE:N	1:F:585:PHE:CD2	2.62	0.67
1:F:679:SER:HB3	1:F:870:MET:CE	2.24	0.67
1:G:195:PRO:HG2	1:H:823:HIS:CD2	2.30	0.67
1:G:517:TYR:O	1:G:520:ILE:HG13	1.95	0.67
1:H:687:GLU:HB3	1:H:701:TYR:CD2	2.30	0.67
1:I:217:LYS:HE3	1:I:257:ASP:OD2	1.95	0.67
1:J:403:VAL:HG23	1:J:405:ASP:OD2	1.95	0.67
1:J:456:ASN:ND2	1:K:199:VAL:HB	2.07	0.67
1:J:664:PRO:CG	5:Q:19:THR:HG22	2.24	0.67
1:J:851:ILE:HD13	1:L:116:TYR:CE2	2.30	0.67
1:K:13:MET:HB3	1:L:925:VAL:HG21	1.77	0.67
1:K:485:TYR:OH	1:K:528:PRO:HB3	1.94	0.67
1:K:737:LEU:HD11	1:K:742:GLU:O	1.95	0.67
1:L:161:ALA:O	1:L:199:VAL:HG23	1.94	0.67
1:L:190:ASP:CG	1:L:191:LYS:N	2.48	0.67
1:L:590:ASN:OD1	1:L:702:SER:HB3	1.95	0.67
4:M:8:PRO:HB3	4:M:78:ALA:HB2	1.77	0.67
5:Q:12:LEU:O	5:Q:15:PRO:HG2	1.95	0.67
1:A:204:TRP:CZ3	1:B:313:VAL:HG12	2.29	0.67
1:A:631:GLU:O	1:A:635:ARG:HG3	1.95	0.67
1:A:815:LYS:CE	1:C:233:THR:O	2.43	0.67
1:B:84:PHE:N	1:B:581:TYR:O	2.23	0.67
1:B:262:ASP:OD1	1:B:263:VAL:O	2.11	0.67
1:B:300:LYS:C	1:B:302:GLY:H	1.98	0.67
1:C:20:ALA:CB	1:C:47:ASN:HB3	2.25	0.67
1:C:590:ASN:OD1	1:C:702:SER:HB3	1.94	0.67
1:C:724:MET:HE3	1:C:729:VAL:HG11	1.68	0.67
1:C:802:SER:HB3	1:C:862:LYS:HA	1.75	0.67
1:D:35:THR:O	1:D:35:THR:CG2	2.42	0.67
1:D:384:TRP:HA	1:D:384:TRP:HE3	1.59	0.67
1:D:434:GLY:O	1:D:437:GLU:OE1	2.13	0.67
1:D:517:TYR:O	1:D:520:ILE:HG13	1.94	0.67
1:D:715:ASN:O	1:D:715:ASN:CG	2.33	0.67
1:E:66:LEU:HG	1:E:619:PHE:HE1	1.60	0.67
1:G:396:ARG:CZ	1:G:534:PRO:HG3	2.25	0.67
1:G:687:GLU:CB	1:G:701:TYR:CD2	2.78	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:866:CYS:SG	1:G:869:VAL:HG11	2.35	0.67
1:H:53:THR:O	1:H:53:THR:HG23	1.94	0.67
1:H:423:TYR:CE2	1:I:281:ILE:HD11	2.29	0.67
1:H:571:ASN:ND2	1:H:571:ASN:N	2.37	0.67
1:H:949:ASN:O	1:H:952:THR:HG22	1.94	0.67
1:J:685:THR:HB	1:J:914:THR:HA	1.77	0.67
1:K:109:ARG:HH21	1:K:550:LEU:HD22	1.60	0.67
1:K:155:LYS:HZ2	1:K:283:LEU:CB	1.96	0.67
1:K:416:GLY:O	1:K:457:VAL:HG11	1.95	0.67
4:M:129:ARG:O	4:M:133:GLU:HG3	1.95	0.67
4:M:197:VAL:O	6:U:199:ASN:ND2	2.24	0.67
5:Q:4:THR:HG22	5:Q:13:PHE:HE2	1.40	0.67
5:R:123:SER:O	5:R:127:GLU:HG3	1.95	0.67
1:A:445:ALA:N	1:B:152:ASP:HB3	2.06	0.67
1:C:83:ARG:NH1	1:J:69:VAL:HG21	2.09	0.67
1:E:196:GLU:N	1:E:197:PRO:CD	2.57	0.67
1:E:324:ILE:HG13	1:E:595:SER:HA	1.76	0.67
1:E:337:ASN:CG	1:E:361:ARG:O	2.32	0.67
1:F:85:THR:HG22	1:F:85:THR:O	1.95	0.67
1:F:121:TYR:CE1	1:F:293:PRO:HG2	2.30	0.67
1:F:403:VAL:HG21	1:F:465:GLN:C	2.15	0.67
1:F:683:LEU:HD21	1:F:917:TYR:HB2	1.76	0.67
1:F:705:ILE:O	1:F:709:ASP:CB	2.23	0.67
1:F:826:SER:O	1:F:828:PHE:N	2.28	0.67
1:G:421:SER:HB2	1:G:423:TYR:HE1	1.58	0.67
1:G:821:PHE:HA	1:I:194:GLN:HE22	1.59	0.67
1:H:153:VAL:HG12	1:H:153:VAL:O	1.95	0.67
1:H:677:GLY:N	1:H:921:GLU:HB2	2.09	0.67
1:H:949:ASN:H	1:H:952:THR:CG2	2.07	0.67
1:J:4:PRO:HG3	4:M:295:LEU:HD11	1.75	0.67
1:J:203:ASN:ND2	1:J:204:TRP:HE3	1.93	0.67
1:J:237:GLY:HA3	1:K:821:PHE:HD1	1.58	0.67
1:J:427:LYS:HB2	1:J:441:GLU:HG2	1.75	0.67
1:J:674:ALA:HB2	1:L:10:TRP:CH2	2.30	0.67
1:J:730:SER:C	1:J:732:PRO:CD	2.62	0.67
1:K:437:GLU:O	1:L:278:LYS:HD3	1.95	0.67
1:K:643:PHE:CD2	1:K:643:PHE:N	2.61	0.67
1:L:199:VAL:CG1	1:L:206:GLU:CB	2.72	0.67
1:L:224:PRO:HB3	1:L:314:GLN:O	1.95	0.67
5:P:28:ARG:CB	5:P:31:VAL:CG2	2.72	0.67
5:Q:46:SER:O	5:Q:51:TYR:CE1	2.47	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:U:76:SER:OG	6:U:178:PRO:HB2	1.95	0.67
1:A:19:ASP:HB3	1:A:48:PRO:HD2	1.77	0.66
1:A:126:PRO:HG2	1:A:129:ALA:HB2	1.76	0.66
1:A:193:PHE:CZ	1:A:214:ARG:CA	2.76	0.66
1:A:277:TYR:CE1	1:A:279:ALA:HA	2.26	0.66
1:A:566:PHE:O	1:A:570:LYS:N	2.27	0.66
1:B:201:GLU:HG3	1:B:202:GLU:HG3	1.77	0.66
1:B:396:ARG:NH1	1:B:865:LEU:HD11	2.09	0.66
1:B:682:ARG:NH1	1:B:910:MET:CE	2.58	0.66
1:C:214:ARG:HH22	1:C:241:LYS:HE2	1.60	0.66
1:D:79:LEU:HD13	1:D:335:TYR:CD2	2.29	0.66
1:D:664:PRO:HA	1:D:904:THR:HG23	1.76	0.66
1:E:222:MET:CE	1:E:307:SER:HB3	2.25	0.66
1:E:328:ASP:O	1:E:331:VAL:HG23	1.95	0.66
1:E:358:LEU:HD21	1:E:947:ALA:CB	2.25	0.66
1:E:453:CYS:H	1:F:159:VAL:HG22	1.60	0.66
1:E:724:MET:SD	1:E:729:VAL:HA	2.35	0.66
1:F:214:ARG:HH12	1:F:241:LYS:NZ	1.93	0.66
1:F:672:TRP:HZ3	1:F:899:HIS:O	1.78	0.66
1:F:891:ASN:HD22	1:F:891:ASN:H	1.41	0.66
1:G:701:TYR:CD2	1:G:701:TYR:O	2.48	0.66
1:G:721:VAL:O	1:G:721:VAL:CG1	2.42	0.66
1:H:135:TRP:HE1	1:H:156:THR:CG2	2.08	0.66
1:I:173:LEU:HB2	1:I:185:LYS:CD	2.26	0.66
1:I:653:LEU:HB3	1:I:915:LEU:HD12	1.77	0.66
1:J:733:GLY:HA2	1:J:740:PRO:O	1.95	0.66
1:J:951:THR:CG2	8:X:6:UNK:O	2.42	0.66
1:K:315:GLN:HE21	1:K:836:MET:HG3	1.60	0.66
1:K:442:LYS:HB3	1:K:443:ASP:OD2	1.95	0.66
1:K:443:ASP:O	1:L:152:ASP:HA	1.95	0.66
1:L:682:ARG:NH1	1:L:914:THR:OG1	2.27	0.66
2:N:332:GLU:HG3	2:N:333:LYS:N	2.10	0.66
1:A:191:LYS:O	1:A:192:THR:C	2.34	0.66
1:A:358:LEU:HD21	1:A:947:ALA:HB2	1.77	0.66
1:A:445:ALA:H	1:B:152:ASP:C	1.98	0.66
1:A:466:ALA:HB1	1:C:124:LEU:CD2	2.25	0.66
1:A:533:ASN:CB	1:A:713:TYR:CZ	2.78	0.66
1:B:173:LEU:HD13	1:B:185:LYS:NZ	2.10	0.66
1:B:368:GLN:NE2	1:B:377:ARG:NH2	2.43	0.66
1:B:381:PHE:CD1	1:C:795:PHE:CZ	2.81	0.66
1:B:651:ASN:HA	1:B:919:LEU:HD23	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:222:MET:CE	1:D:307:SER:CA	2.72	0.66
1:D:320:ARG:NH1	1:D:479:LEU:HB3	2.11	0.66
1:D:407:LEU:HD12	1:D:407:LEU:N	2.11	0.66
1:D:892:MET:HE2	1:F:3:THR:OG1	1.94	0.66
1:E:173:LEU:O	1:E:173:LEU:HG	1.95	0.66
1:E:333:LEU:CD1	1:E:592:ILE:CG2	2.71	0.66
1:E:397:ILE:HA	1:E:525:SER:HB3	1.77	0.66
1:E:453:CYS:SG	1:E:453:CYS:CA	2.82	0.66
1:G:170:GLN:OE1	1:G:185:LYS:HG3	1.94	0.66
1:G:416:GLY:O	1:G:457:VAL:HG12	1.91	0.66
1:H:305:ASP:HB2	1:H:311:ASN:HD21	1.58	0.66
1:H:785:GLU:N	1:H:785:GLU:OE1	2.29	0.66
1:I:234:ASN:HD21	1:I:241:LYS:HE2	1.60	0.66
1:I:684:LYS:O	1:I:687:GLU:HG2	1.95	0.66
1:K:49:THR:HB	1:L:884:ALA:HB3	1.76	0.66
1:K:367:TYR:HE1	1:K:570:LYS:NZ	1.93	0.66
1:K:440:TRP:O	1:K:440:TRP:HD1	1.69	0.66
1:K:806:VAL:HA	1:K:858:SER:HB3	1.78	0.66
1:L:776:ILE:HG22	1:L:781:PHE:HA	1.76	0.66
2:N:254:ILE:HG23	2:N:354:TRP:CH2	2.30	0.66
4:M:239:PRO:HD3	4:M:263:ILE:HD12	1.77	0.66
4:M:297:PHE:O	4:M:301:ASN:ND2	2.28	0.66
7:9:16:ARG:HA	7:9:22:TRP:O	1.95	0.66
1:A:397:ILE:CD1	1:A:799:GLN:HG3	2.25	0.66
1:A:414:LEU:CD1	1:B:837:ARG:CD	2.73	0.66
1:A:489:PRO:HD3	1:A:508:VAL:CG1	2.25	0.66
1:B:196:GLU:HG3	1:B:197:PRO:CD	2.20	0.66
1:B:214:ARG:NH2	1:B:241:LYS:HE3	2.06	0.66
1:B:747:ARG:NH1	1:B:754:TYR:CG	2.63	0.66
1:C:77:THR:OG1	1:C:78:TYR:HD2	1.78	0.66
1:C:81:LYS:HG3	1:C:582:GLU:CD	2.14	0.66
1:C:533:ASN:HB2	1:C:713:TYR:CE2	2.31	0.66
1:D:298:VAL:CG2	1:D:317:MET:HG2	2.25	0.66
1:D:330:PHE:CZ	1:D:560:ILE:HG23	2.30	0.66
1:E:135:TRP:CH2	1:E:153:VAL:HG11	2.30	0.66
1:E:191:LYS:O	1:E:191:LYS:HG2	1.94	0.66
1:E:348:GLN:HB3	1:E:578:SER:O	1.95	0.66
1:F:103:ILE:HG22	1:F:104:ARG:N	2.10	0.66
1:F:365:LEU:CD1	1:F:710:GLY:HA2	2.25	0.66
1:F:827:GLY:HA2	1:F:839:GLY:O	1.95	0.66
1:F:882:MET:HB3	7:3:23:ASN:ND2	2.11	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:422:THR:O	1:H:264:PRO:CD	2.44	0.66
1:H:116:TYR:CG	1:I:520:ILE:CG2	2.78	0.66
1:I:31:PHE:HD2	1:I:31:PHE:C	1.99	0.66
1:J:370:LEU:HD11	1:J:374:LEU:HD11	1.78	0.66
1:J:405:ASP:O	1:J:405:ASP:CG	2.32	0.66
1:J:839:GLY:N	1:L:198:GLN:OE1	2.28	0.66
1:K:367:TYR:CD2	1:K:565:LYS:HD3	2.30	0.66
1:K:384:TRP:HA	1:K:384:TRP:CE3	2.29	0.66
1:K:518:ILE:HD12	1:K:518:ILE:O	1.96	0.66
1:K:544:ARG:HE	1:L:401:HIS:CD2	2.13	0.66
1:K:942:ARG:HG3	1:K:942:ARG:O	1.96	0.66
1:A:345:LEU:HD13	1:A:581:TYR:HD1	1.60	0.66
1:A:414:LEU:CD1	1:B:837:ARG:CZ	2.73	0.66
1:A:774:TYR:O	1:A:775:ASN:HB2	1.95	0.66
1:A:828:PHE:CD2	1:B:412:PHE:CZ	2.84	0.66
1:B:397:ILE:HD11	1:B:799:GLN:HG3	1.77	0.66
1:B:481:LEU:HD23	1:B:529:MET:HG2	1.75	0.66
1:B:622:MET:CB	1:B:627:ALA:HB2	2.26	0.66
1:C:115:PRO:C	1:C:323:TYR:HE1	1.99	0.66
1:C:676:ARG:O	1:C:921:GLU:CB	2.36	0.66
1:D:194:GLN:O	1:D:197:PRO:HD2	1.95	0.66
1:E:225:CYS:O	1:E:225:CYS:SG	2.53	0.66
1:E:417:THR:HG21	1:F:157:PHE:CE1	2.29	0.66
1:E:676:ARG:NH2	7:3:5:ASN:OD1	2.28	0.66
1:F:217:LYS:NZ	1:F:285:THR:HG21	2.10	0.66
1:F:804:GLN:O	1:F:850:LEU:CD1	2.44	0.66
1:G:759:CYS:SG	1:G:864:PHE:HB3	2.35	0.66
1:H:214:ARG:HH22	1:H:241:LYS:CE	2.09	0.66
1:H:818:THR:O	1:H:820:PRO:HD2	1.95	0.66
1:I:199:VAL:HG12	1:I:206:GLU:HG2	1.78	0.66
1:J:524:TRP:CH2	1:J:863:LYS:HG3	2.30	0.66
1:J:539:ARG:HH11	1:J:539:ARG:CB	2.07	0.66
1:J:774:TYR:HA	1:J:788:LYS:HE2	1.77	0.66
1:K:7:MET:CE	1:K:12:TYR:CD1	2.78	0.66
1:K:58:THR:HB	1:K:623:ALA:CA	2.25	0.66
1:K:671:ASN:O	1:K:671:ASN:CG	2.33	0.66
2:N:118:MET:SD	2:N:125:MET:SD	2.93	0.66
5:P:4:THR:HG21	5:P:11:GLY:H	1.60	0.66
5:Q:16:TYR:CD2	5:R:18:THR:OG1	2.48	0.66
7:2:25:ILE:O	7:2:25:ILE:HG22	1.95	0.66
1:A:355:VAL:HB	1:A:569:ILE:HD11	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:446:ILE:CG1	1:A:447:SER:H	2.05	0.66
1:B:548:MET:HG3	1:C:523:ARG:H	1.60	0.66
1:C:300:LYS:HG3	1:C:301:PRO:HD2	1.76	0.66
1:C:409:ASN:HD21	1:C:464:LEU:HB2	1.58	0.66
1:D:137:THR:CG2	1:D:152:ASP:O	2.43	0.66
1:E:441:GLU:CB	1:E:446:ILE:HG21	2.26	0.66
1:E:744:GLU:HG3	1:E:747:ARG:HB3	1.77	0.66
1:E:887:ASP:O	1:E:887:ASP:OD1	2.13	0.66
1:F:32:ALA:HB1	1:F:41:LEU:HB2	1.77	0.66
1:F:132:PRO:HB3	1:F:158:GLY:HA2	1.78	0.66
1:F:725:PHE:O	1:F:901:LEU:CA	2.38	0.66
1:F:745:ILE:CG1	1:F:765:TRP:CE2	2.78	0.66
1:F:803:ARG:NH1	1:F:805:VAL:HG22	2.10	0.66
1:G:140:LYS:CG	1:G:147:VAL:HG23	2.25	0.66
1:G:310:ILE:HD12	1:G:310:ILE:H	1.61	0.66
1:G:589:VAL:O	1:G:593:LEU:HB2	1.96	0.66
1:G:738:LEU:O	1:G:738:LEU:HD12	1.96	0.66
1:H:99:THR:HA	1:H:616:TYR:O	1.94	0.66
1:H:623:ALA:HB3	1:H:626:THR:CG2	2.25	0.66
1:J:16:ALA:HA	1:J:48:PRO:HB3	1.76	0.66
1:J:195:PRO:CA	1:J:198:GLN:NE2	2.34	0.66
1:J:500:THR:HG23	1:J:503:TYR:HB2	1.78	0.66
1:K:174:LEU:CD1	1:K:191:LYS:CE	2.73	0.66
1:K:397:ILE:HD12	1:K:523:ARG:NH1	2.11	0.66
1:K:443:ASP:OD2	1:K:443:ASP:N	2.27	0.66
1:L:478:ALA:HB2	1:L:514:VAL:HG13	1.78	0.66
1:L:494:LEU:HD23	1:L:503:TYR:CD1	2.30	0.66
1:L:581:TYR:O	1:L:582:GLU:HB3	1.96	0.66
5:R:9:GLU:CG	5:R:13:PHE:HB3	2.25	0.66
6:U:11:TRP:CH2	6:U:69:LEU:HD22	2.30	0.66
6:V:10:MET:CG	6:V:26:ASP:HB3	2.26	0.66
1:C:70:PRO:CG	1:C:73:ARG:HE	1.92	0.66
1:C:304:SER:O	1:C:311:ASN:ND2	2.29	0.66
1:D:552:ASN:HB3	1:E:522:ALA:HB2	1.78	0.66
1:D:594:GLN:NE2	1:D:704:SER:HB2	2.11	0.66
1:E:19:ASP:CG	1:E:20:ALA:H	1.99	0.66
1:E:99:THR:O	1:E:100:TYR:HB3	1.95	0.66
1:E:169:ASN:HD22	1:E:169:ASN:C	1.98	0.66
1:F:706:PRO:HA	1:F:711:THR:CG2	2.25	0.66
1:F:929:HIS:NE2	1:F:931:PRO:HG3	2.10	0.66
1:G:139:GLU:HG3	1:G:140:LYS:H	1.60	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:544:ARG:HH11	1:I:401:HIS:CD2	2.13	0.66
1:I:88:VAL:CG2	1:I:576:PRO:HA	2.26	0.66
1:J:29:VAL:HG13	1:J:30:GLN:N	2.08	0.66
1:J:159:VAL:O	1:K:840:GLN:OE1	2.13	0.66
1:J:360:ASP:O	1:J:362:ASN:N	2.29	0.66
1:J:400:ASN:OD1	1:J:400:ASN:C	2.32	0.66
1:J:756:VAL:CG1	1:J:763:LYS:CA	2.66	0.66
1:K:326:PHE:O	1:K:546:ARG:HD2	1.95	0.66
1:K:529:MET:HG2	1:K:529:MET:O	1.95	0.66
1:K:739:THR:HG21	1:K:744:GLU:HG2	1.75	0.66
1:L:241:LYS:CG	1:L:286:GLU:CD	2.41	0.66
1:L:384:TRP:HA	1:L:384:TRP:HE3	1.59	0.66
1:L:398:ILE:CD1	1:L:473:LEU:HD11	2.24	0.66
1:L:503:TYR:C	1:L:505:ASN:H	1.98	0.66
1:L:590:ASN:HD22	1:L:602:ARG:HB2	1.61	0.66
1:L:756:VAL:HG13	1:L:763:LYS:CG	2.25	0.66
1:L:943:THR:HB	1:L:944:PRO:HD3	1.78	0.66
2:N:450:ASN:HB3	2:N:453:LEU:HB2	1.77	0.66
1:A:69:VAL:HG13	1:A:70:PRO:HD2	1.77	0.66
1:A:799:GLN:O	1:A:801:MET:HE3	1.96	0.66
1:B:113:PHE:CE2	1:B:115:PRO:HD3	2.30	0.66
1:B:676:ARG:CD	1:B:921:GLU:HB3	2.23	0.66
1:C:119:THR:OG1	1:C:226:TYR:CE2	2.49	0.66
1:C:309:GLU:HG2	1:C:310:ILE:HD12	1.76	0.66
1:C:630:LEU:HD13	1:C:630:LEU:O	1.96	0.66
1:C:798:PHE:O	1:C:800:PRO:HD3	1.96	0.66
1:D:172:LEU:HD23	1:D:172:LEU:O	1.95	0.66
1:D:560:ILE:HG22	1:D:561:GLN:N	2.10	0.66
1:D:681:THR:HG21	1:D:712:PHE:CG	2.30	0.66
1:D:806:VAL:CG1	1:D:856:VAL:HG21	2.25	0.66
1:D:813:ASP:OD2	1:D:813:ASP:O	2.13	0.66
1:E:89:GLY:O	1:E:92:ARG:CG	2.44	0.66
1:E:449:GLN:HE21	1:E:450:ASN:ND2	1.93	0.66
1:E:682:ARG:NH1	1:E:910:MET:HE3	2.11	0.66
1:F:684:LYS:HA	1:F:914:THR:HB	1.77	0.66
1:F:687:GLU:HB2	1:F:701:TYR:CE2	2.31	0.66
1:G:260:TYR:HB2	1:I:426:VAL:O	1.96	0.66
1:I:192:THR:CG2	1:I:214:ARG:HH11	2.08	0.66
1:I:937:GLU:CB	8:Z:10:UNK:CB	2.74	0.66
1:J:162:THR:CG2	1:J:212:GLY:O	2.43	0.66
1:J:356:VAL:HG12	1:J:940:TYR:CD1	2.31	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:860:THR:HG21	1:L:557:PRO:HD2	1.78	0.66
1:K:204:TRP:CD1	1:K:415:ASN:HB3	2.30	0.66
1:K:677:GLY:H	1:K:921:GLU:HB2	1.60	0.66
1:L:846:PHE:HB3	1:L:847:PRO:HD3	1.77	0.66
2:N:281:ASP:HB2	2:N:283:PRO:HD2	1.77	0.66
6:V:93:ARG:HD2	6:V:98:GLU:OE2	1.96	0.66
1:B:116:TYR:CD1	1:B:116:TYR:O	2.49	0.66
1:B:327:ARG:NH2	1:B:705:ILE:HD11	2.10	0.66
1:B:534:PRO:HG2	1:B:535:PHE:CE2	2.31	0.66
1:B:808:GLU:OE2	1:B:814:TYR:CZ	2.49	0.66
1:B:922:VAL:HG12	1:B:944:PRO:HG2	1.76	0.66
1:C:192:THR:HG22	1:C:193:PHE:N	2.10	0.66
1:D:169:ASN:HB3	1:F:428:ILE:HD13	1.78	0.66
1:E:422:THR:CG2	1:E:449:GLN:HB3	2.25	0.66
1:E:449:GLN:NE2	1:E:450:ASN:ND2	2.44	0.66
1:F:247:GLU:O	1:F:247:GLU:CG	2.44	0.66
1:F:258:PHE:CE2	1:F:284:TYR:CE2	2.84	0.66
1:F:423:TYR:CD1	1:F:452:ILE:HD12	2.31	0.66
1:F:426:VAL:HG12	1:F:440:TRP:HB3	1.77	0.66
1:F:452:ILE:O	1:F:453:CYS:C	2.34	0.66
1:F:754:TYR:N	1:F:754:TYR:CD2	2.64	0.66
1:G:449:GLN:HB3	1:H:153:VAL:HG22	1.77	0.66
1:H:135:TRP:CH2	1:H:309:GLU:CG	2.78	0.66
1:I:64:LEU:CD1	1:I:621:PRO:HG3	2.25	0.66
1:I:364:GLU:HG2	1:I:708:LEU:HB2	1.77	0.66
1:J:880:MET:SD	1:K:38:TYR:CB	2.76	0.66
1:K:831:TYR:CB	1:K:838:GLN:HE21	2.07	0.66
1:L:546:ARG:HH11	1:L:546:ARG:HG2	1.60	0.66
1:L:682:ARG:NH2	1:L:910:MET:HB2	2.10	0.66
5:P:36:VAL:CG2	5:P:43:PRO:CB	2.72	0.66
5:Q:36:VAL:CG2	5:Q:43:PRO:CG	2.74	0.66
1:A:409:ASN:HD21	1:A:464:LEU:HB2	1.60	0.66
1:A:841:PRO:HD2	1:C:159:VAL:HG11	1.78	0.66
1:B:192:THR:HB	1:B:284:TYR:CE1	2.31	0.66
1:B:241:LYS:CE	1:B:286:GLU:OE2	2.43	0.66
1:B:362:ASN:O	1:B:362:ASN:CG	2.33	0.66
1:D:157:PHE:HZ	1:F:415:ASN:HD22	1.43	0.66
1:D:456:ASN:ND2	1:E:198:GLN:HG2	2.11	0.66
1:D:481:LEU:HD23	1:D:529:MET:CG	2.25	0.66
1:D:815:LYS:HE3	1:F:233:THR:O	1.96	0.66
1:E:77:THR:HA	5:P:76:ARG:HH22	1.57	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:449:GLN:HG3	1:E:450:ASN:CG	2.15	0.66
1:E:823:HIS:O	1:E:844:ALA:HB1	1.96	0.66
1:F:138:LYS:HG2	1:F:147:VAL:CG1	2.26	0.66
1:G:49:THR:CB	7:6:21:THR:HB	2.26	0.66
1:H:204:TRP:CZ3	1:I:312:LEU:HB3	2.30	0.66
1:I:361:ARG:O	1:I:362:ASN:HB3	1.96	0.66
1:I:808:GLU:HA	1:I:814:TYR:CD2	2.31	0.66
1:J:124:LEU:HB2	1:K:825:ASN:ND2	2.10	0.66
1:J:853:GLN:HA	1:L:554:ARG:HH11	1.59	0.66
1:K:191:LYS:O	1:K:192:THR:C	2.34	0.66
1:K:432:ASN:O	1:K:437:GLU:OE2	2.13	0.66
1:L:118:GLY:HA2	1:L:318:PRO:CB	2.25	0.66
1:L:170:GLN:OE1	1:L:185:LYS:HE3	1.95	0.66
1:L:656:ILE:HG22	1:L:915:LEU:CA	2.23	0.66
2:N:43:ARG:HG3	2:N:43:ARG:O	1.95	0.66
5:Q:50:THR:O	5:Q:50:THR:CG2	2.40	0.66
6:V:2:SER:CB	6:V:200:PRO:CD	2.73	0.66
7:2:16:ARG:HH11	7:2:16:ARG:HG2	1.59	0.66
1:A:94:LEU:HB2	1:A:619:PHE:CE1	2.31	0.66
1:B:155:LYS:HD2	1:B:261:PHE:CZ	2.30	0.66
1:B:155:LYS:HZ3	1:B:283:LEU:HB3	1.59	0.66
1:B:198:GLN:HB3	1:C:838:GLN:O	1.92	0.66
1:B:651:ASN:CA	1:B:919:LEU:HD23	2.26	0.66
1:C:212:GLY:HA2	1:C:282:ILE:O	1.94	0.66
1:D:160:ALA:HB3	1:F:454:LYS:HA	1.77	0.66
1:D:638:THR:HG23	1:D:639:HIS:CG	2.30	0.66
1:D:646:TYR:CD2	7:4:4:ILE:HG21	2.31	0.66
1:E:114:LYS:HG2	1:E:114:LYS:O	1.94	0.66
1:E:162:THR:HG21	1:E:193:PHE:CD2	2.31	0.66
1:E:684:LYS:HA	1:E:914:THR:HG22	1.77	0.66
1:E:939:VAL:HG13	6:U:108:LEU:HD23	1.78	0.66
1:F:170:GLN:CB	1:F:185:LYS:NZ	2.56	0.66
1:F:188:TYR:HB2	1:F:192:THR:OG1	1.95	0.66
1:F:929:HIS:O	1:F:931:PRO:CD	2.36	0.66
1:F:943:THR:CG2	1:F:944:PRO:HD3	2.26	0.66
1:G:246:ASN:C	1:G:247:GLU:O	2.34	0.66
1:H:868:ARG:HG2	1:H:868:ARG:O	1.96	0.66
1:I:209:ALA:HB1	1:I:210:PHE:CE1	2.30	0.66
1:I:517:TYR:C	1:I:520:ILE:HG12	2.16	0.66
1:J:745:ILE:HG23	1:J:765:TRP:NE1	2.10	0.66
1:J:831:TYR:HE2	1:J:832:LEU:CD1	2.09	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:148:GLN:O	1:K:148:GLN:HG3	1.91	0.66
2:N:461:ILE:HG23	2:N:461:ILE:O	1.96	0.66
4:M:199:LEU:HD11	6:U:1:MET:CG	2.26	0.66
4:M:269:ASP:HB2	6:U:61:VAL:HG22	1.76	0.66
5:P:10:GLY:HA2	5:P:13:PHE:CE2	2.30	0.66
7:7:26:GLY:C	7:7:28:SER:N	2.48	0.66
1:A:201:GLU:CG	1:B:838:GLN:OE1	2.44	0.65
1:C:357:ASP:CG	1:C:566:PHE:CZ	2.69	0.65
1:D:79:LEU:CD1	1:D:335:TYR:CE2	2.75	0.65
1:D:136:GLU:HA	1:D:151:LYS:HG2	1.77	0.65
1:D:621:PRO:CB	1:E:736:ARG:HH12	2.08	0.65
1:D:640:ASP:O	1:F:45:PHE:CD1	2.48	0.65
1:E:28:LEU:HD23	1:F:639:HIS:ND1	2.11	0.65
1:E:162:THR:CG2	1:E:193:PHE:HE2	2.06	0.65
1:E:345:LEU:HD22	1:E:569:ILE:HD13	1.78	0.65
1:F:403:VAL:HG21	1:F:465:GLN:CB	2.17	0.65
1:G:159:VAL:HG11	1:H:841:PRO:HD2	1.77	0.65
1:G:187:ILE:C	1:G:189:ALA:H	2.00	0.65
1:G:494:LEU:HD13	1:G:503:TYR:O	1.95	0.65
1:G:514:VAL:HG23	1:G:518:ILE:CD1	2.25	0.65
1:G:572:LEU:CD1	1:G:928:VAL:HG11	2.26	0.65
1:H:13:MET:HG3	1:I:941:LEU:HD22	1.78	0.65
1:H:327:ARG:NH1	1:H:594:GLN:HB3	2.10	0.65
1:H:928:VAL:O	1:H:928:VAL:HG23	1.97	0.65
1:I:732:PRO:HB3	1:I:743:PHE:CE1	2.31	0.65
1:I:784:PRO:HD2	1:I:795:PHE:CD2	2.31	0.65
1:I:829:THR:HG22	1:I:830:GLY:H	1.61	0.65
1:I:865:LEU:O	1:I:865:LEU:CG	2.41	0.65
1:J:138:LYS:HG2	1:J:149:GLN:HB2	1.76	0.65
1:J:152:ASP:HA	1:L:445:ALA:N	2.11	0.65
1:K:244:PRO:C	1:K:246:ASN:N	2.49	0.65
1:L:396:ARG:HH11	1:L:396:ARG:HG2	1.61	0.65
1:L:725:PHE:HA	1:L:901:LEU:HA	1.76	0.65
2:N:257:LYS:O	2:N:259:PRO:HD3	1.96	0.65
2:N:385:VAL:HG12	2:N:386:TYR:N	2.10	0.65
5:P:16:TYR:C	5:R:14:SER:O	2.34	0.65
5:P:35:THR:HG21	5:P:40:PRO:N	2.10	0.65
5:Q:34:SER:C	5:Q:43:PRO:HD2	2.16	0.65
5:R:49:MET:CE	5:R:50:THR:H	2.08	0.65
6:V:19:LEU:HD21	6:V:72:ARG:HD2	1.76	0.65
1:A:202:GLU:C	1:A:206:GLU:OE1	2.35	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:79:LEU:CD1	1:B:335:TYR:OH	2.45	0.65
1:C:130:PRO:CB	1:C:312:LEU:CD1	2.73	0.65
1:C:385:ASN:HB3	1:C:546:ARG:HD2	1.78	0.65
1:D:122:ASN:HA	1:E:825:ASN:HA	1.78	0.65
1:D:277:TYR:HD1	1:D:278:LYS:N	1.93	0.65
1:D:433:ASP:CG	1:D:434:GLY:N	2.43	0.65
1:E:14:HIS:NE2	1:E:23:TYR:CD2	2.64	0.65
1:F:663:VAL:CG1	5:R:17:LEU:CD1	2.42	0.65
1:G:358:LEU:HD22	1:G:942:ARG:NH1	2.10	0.65
1:H:139:GLU:CG	1:H:152:ASP:OD2	2.45	0.65
1:H:460:MET:HB3	1:I:413:PRO:HA	1.78	0.65
1:I:250:GLN:HB3	1:I:251:PRO:HD2	1.78	0.65
1:I:422:THR:HB	1:I:450:ASN:N	2.11	0.65
1:I:630:LEU:O	1:I:634:LEU:HB2	1.96	0.65
1:J:3:THR:HA	1:K:892:MET:HE3	1.78	0.65
1:J:233:THR:OG1	1:J:240:ALA:HA	1.96	0.65
1:J:664:PRO:O	5:Q:18:THR:HG21	1.96	0.65
1:K:107:LEU:HG	1:K:108:ASP:N	2.09	0.65
1:K:377:ARG:HH11	1:K:388:VAL:CB	2.08	0.65
1:L:131:ASN:HB2	1:L:132:PRO:CD	2.22	0.65
1:L:649:ALA:HA	1:L:922:VAL:HG22	1.77	0.65
1:L:754:TYR:O	1:L:762:THR:HA	1.96	0.65
1:L:918:LEU:O	1:L:918:LEU:HG	1.96	0.65
2:N:431:SER:HA	2:N:434:ILE:CG2	2.25	0.65
1:A:313:VAL:O	1:A:313:VAL:HG12	1.94	0.65
1:A:414:LEU:HD12	1:B:837:ARG:HH11	1.57	0.65
1:B:96:MET:HG2	1:B:569:ILE:CG2	2.26	0.65
1:B:167:ILE:HG21	1:B:282:ILE:HG23	1.76	0.65
1:C:749:VAL:O	1:C:749:VAL:HG12	1.97	0.65
1:D:256:ILE:HG12	1:D:286:GLU:HG2	1.78	0.65
1:D:773:HIS:CE1	1:D:872:ARG:HH11	2.12	0.65
1:D:804:GLN:CG	1:F:552:ASN:O	2.44	0.65
1:E:62:GLN:O	1:E:63:ARG:C	2.29	0.65
1:E:121:TYR:O	1:E:226:TYR:O	2.14	0.65
1:E:124:LEU:N	1:F:825:ASN:HD21	1.94	0.65
1:E:417:THR:CG2	1:F:157:PHE:CE1	2.79	0.65
1:E:676:ARG:HH22	7:3:5:ASN:H	1.44	0.65
1:F:6:MET:HE3	1:F:10:TRP:HE1	1.61	0.65
1:F:234:ASN:O	1:F:236:LYS:N	2.29	0.65
1:F:577:GLY:CA	1:F:933:ARG:O	2.44	0.65
1:G:615:LEU:O	1:G:615:LEU:HG	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:746:LYS:O	1:G:746:LYS:CG	2.43	0.65
1:G:912:GLU:HB2	1:G:913:PRO:CD	2.25	0.65
1:G:924:ASP:HA	1:G:941:LEU:O	1.95	0.65
1:H:28:LEU:HD22	1:I:639:HIS:HD1	1.61	0.65
1:H:192:THR:O	1:H:193:PHE:HB3	1.97	0.65
1:H:344:VAL:CG2	1:H:353:ASN:CB	2.43	0.65
1:I:83:ARG:HA	1:I:582:GLU:CB	2.25	0.65
1:I:246:ASN:HD21	1:I:250:GLN:C	1.92	0.65
1:I:683:LEU:HD22	1:I:683:LEU:N	2.08	0.65
1:J:52:PRO:HB3	7:9:23:ASN:O	1.95	0.65
1:J:575:LEU:O	1:J:577:GLY:N	2.29	0.65
1:K:662:ASN:HA	1:K:906:GLU:CA	2.25	0.65
1:L:323:TYR:HB2	1:L:596:SER:CB	2.25	0.65
1:L:659:LYS:NZ	1:L:659:LYS:CB	2.58	0.65
7:1:17:PRO:HG2	7:1:25:ILE:HG22	1.78	0.65
7:4:16:ARG:C	7:4:18:PHE:H	2.00	0.65
1:A:124:LEU:HD11	1:B:470:LYS:HE2	1.77	0.65
1:A:159:VAL:HG11	1:B:841:PRO:HD2	1.77	0.65
1:C:531:ASN:HB2	1:C:714:LEU:CD2	2.26	0.65
1:C:715:ASN:C	1:C:715:ASN:ND2	2.18	0.65
1:D:623:ALA:HB3	1:D:626:THR:CG2	2.24	0.65
1:D:646:TYR:CE2	7:4:4:ILE:CG2	2.79	0.65
1:E:94:LEU:HD22	1:E:619:PHE:HE2	1.62	0.65
1:F:330:PHE:CE2	1:F:561:GLN:O	2.49	0.65
1:G:13:MET:SD	1:H:941:LEU:HD12	2.35	0.65
1:G:18:GLN:CG	1:G:23:TYR:HB3	2.26	0.65
1:G:134:GLN:NE2	1:G:155:LYS:NZ	2.44	0.65
1:G:460:MET:CG	1:I:460:MET:SD	2.85	0.65
1:G:515:ASP:O	1:G:517:TYR:N	2.29	0.65
1:H:24:LEU:CD1	7:5:9:LEU:CD2	2.74	0.65
1:H:245:VAL:O	1:H:245:VAL:CG1	2.38	0.65
1:H:370:LEU:CD2	1:H:570:LYS:HE3	2.27	0.65
1:H:603:VAL:CG1	1:H:604:ASP:OD2	2.44	0.65
1:J:96:MET:HG3	1:J:569:ILE:O	1.96	0.65
1:J:139:GLU:OE1	1:L:445:ALA:HA	1.96	0.65
1:J:770:MET:CE	1:J:774:TYR:CE1	2.71	0.65
1:K:205:GLN:HA	1:K:205:GLN:HE21	1.59	0.65
1:L:806:VAL:HG12	1:L:856:VAL:HG23	1.77	0.65
2:N:226:TYR:CE2	2:N:429:VAL:CG1	2.80	0.65
4:M:169:MET:O	4:M:177:GLU:OE1	2.13	0.65
6:U:10:MET:CE	6:U:194:PRO:HB3	2.25	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:U:159:ARG:HH11	6:U:159:ARG:CB	2.08	0.65
6:V:10:MET:CE	6:V:10:MET:CA	2.68	0.65
7:9:5:ASN:N	7:9:5:ASN:OD1	2.29	0.65
1:A:214:ARG:HG3	1:B:842:TYR:CE1	2.31	0.65
1:A:214:ARG:HG2	1:B:842:TYR:CZ	2.31	0.65
1:A:424:GLN:CB	1:A:446:ILE:C	2.60	0.65
1:A:908:ASP:HB2	1:A:909:PRO:CD	2.26	0.65
1:B:130:PRO:HB3	1:B:312:LEU:HD12	1.78	0.65
1:B:718:PHE:O	1:B:746:LYS:NZ	2.29	0.65
1:C:96:MET:HE1	1:C:574:LEU:HD11	1.77	0.65
1:C:119:THR:HG23	1:C:294:ASP:OD1	1.95	0.65
1:C:134:GLN:HA	1:C:155:LYS:H	1.61	0.65
1:C:544:ARG:HG2	1:C:545:TYR:H	1.59	0.65
1:C:698:TYR:O	1:C:700:VAL:N	2.29	0.65
1:E:55:ASP:C	1:E:57:THR:H	1.99	0.65
1:E:167:ILE:HD13	1:E:282:ILE:H	1.60	0.65
1:E:675:PHE:HA	1:E:944:PRO:HG3	1.77	0.65
1:E:730:SER:HB2	1:E:732:PRO:CG	2.27	0.65
1:F:664:PRO:CB	5:P:18:THR:CG2	2.74	0.65
1:F:943:THR:HB	1:F:944:PRO:CD	2.26	0.65
1:G:724:MET:CE	1:G:728:SER:O	2.44	0.65
1:H:261:PHE:O	1:H:280:ASP:CA	2.41	0.65
1:H:371:LEU:O	1:H:371:LEU:HD23	1.95	0.65
1:H:689:PRO:O	1:H:691:LEU:N	2.30	0.65
1:H:756:VAL:HG23	1:H:763:LYS:HG3	1.79	0.65
1:J:26:PRO:HA	1:J:29:VAL:CG1	2.25	0.65
1:J:195:PRO:O	1:J:198:GLN:NE2	2.30	0.65
1:J:778:TYR:CD2	1:L:620:PHE:HB2	2.32	0.65
1:J:882:MET:HE3	1:L:52:PRO:HD2	1.78	0.65
1:K:122:ASN:HA	1:L:825:ASN:OD1	1.97	0.65
1:K:170:GLN:O	1:K:170:GLN:HG3	1.97	0.65
1:L:52:PRO:HG2	1:L:56:VAL:HG21	1.79	0.65
1:L:756:VAL:HG13	1:L:763:LYS:HG2	1.79	0.65
1:L:804:GLN:O	1:L:850:LEU:CD1	2.45	0.65
2:N:503:TYR:CD1	2:N:503:TYR:C	2.70	0.65
4:M:180:GLN:C	4:M:182:GLY:N	2.50	0.65
5:R:44:ALA:HB2	5:R:51:TYR:CZ	2.20	0.65
7:7:9:LEU:CG	7:7:10:ALA:N	2.60	0.65
1:A:36:ASP:O	1:A:38:TYR:N	2.28	0.65
1:A:36:ASP:O	1:A:37:THR:C	2.35	0.65
1:A:465:GLN:HA	1:A:465:GLN:OE1	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:567:PHE:HB2	1:A:645:ASP:HB3	1.78	0.65
1:A:719:LYS:HA	1:A:745:ILE:HB	1.76	0.65
1:A:759:CYS:HB3	1:A:800:PRO:HB3	1.79	0.65
1:B:152:ASP:C	1:B:154:THR:H	1.99	0.65
1:B:162:THR:CG2	1:B:163:GLY:H	2.06	0.65
1:B:687:GLU:CD	1:B:701:TYR:CZ	2.70	0.65
1:C:139:GLU:HB2	1:C:152:ASP:CB	2.27	0.65
1:C:217:LYS:NZ	1:C:257:ASP:OD1	2.29	0.65
1:D:139:GLU:OE1	1:D:153:VAL:HG23	1.96	0.65
1:D:461:GLU:O	1:E:411:CYS:HB2	1.95	0.65
1:D:628:SER:HA	1:D:631:GLU:HG2	1.78	0.65
1:E:190:ASP:OD1	1:E:191:LYS:N	2.30	0.65
1:E:724:MET:CG	1:E:728:SER:O	2.43	0.65
1:E:811:TYR:CD2	1:E:813:ASP:O	2.50	0.65
1:F:136:GLU:HG3	1:F:218:LYS:NZ	2.11	0.65
1:F:486:LYS:HG2	1:F:509:VAL:HG12	1.79	0.65
1:G:411:CYS:HB3	1:I:462:ILE:HB	1.79	0.65
1:G:443:ASP:CB	1:H:150:GLU:CG	2.75	0.65
1:H:293:PRO:HB2	1:H:294:ASP:OD1	1.95	0.65
1:H:682:ARG:NH2	1:H:910:MET:HB2	2.10	0.65
1:I:211:TYR:HB2	1:I:281:ILE:HG23	1.78	0.65
1:J:111:PRO:HD2	1:J:604:ASP:CB	2.21	0.65
1:J:651:ASN:HB3	1:J:919:LEU:CB	2.26	0.65
1:J:806:VAL:HG23	1:J:856:VAL:CG2	2.27	0.65
1:J:815:LYS:HG3	1:L:233:THR:O	1.97	0.65
1:K:149:GLN:C	1:K:150:GLU:HG2	2.17	0.65
1:K:855:ALA:O	1:K:856:VAL:O	2.15	0.65
1:L:730:SER:C	1:L:732:PRO:HD2	2.17	0.65
4:M:231:ARG:HD3	4:M:259:TYR:OH	1.96	0.65
7:1:24:GLU:O	7:1:24:GLU:HG3	1.96	0.65
1:A:330:PHE:HE2	1:A:561:GLN:O	1.80	0.65
1:B:175:GLY:O	1:B:184:LYS:HG2	1.96	0.65
1:B:193:PHE:HE1	1:B:199:VAL:HG23	1.62	0.65
1:B:243:LYS:HG3	1:B:251:PRO:HB2	1.77	0.65
1:B:641:GLN:OE1	1:B:641:GLN:N	2.27	0.65
1:C:79:LEU:CD1	1:C:584:ASN:HB3	2.25	0.65
1:C:170:GLN:HG3	1:C:185:LYS:HE3	1.78	0.65
1:C:201:GLU:HG2	1:C:201:GLU:O	1.97	0.65
1:C:352:LEU:HD11	1:J:63:ARG:CG	2.25	0.65
1:D:198:GLN:NE2	1:F:456:ASN:ND2	2.44	0.65
1:D:344:VAL:HA	1:D:355:VAL:CG1	2.27	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:670:ARG:HB3	1:D:670:ARG:NH1	2.12	0.65
1:E:228:SER:OG	1:F:843:PRO:HB3	1.95	0.65
1:E:275:GLU:CB	1:E:276:GLU:OE2	2.43	0.65
1:E:317:MET:HG2	1:E:317:MET:O	1.94	0.65
1:E:545:TYR:C	1:E:547:SER:H	2.00	0.65
1:E:649:ALA:CB	1:E:919:LEU:CD1	2.75	0.65
1:F:856:VAL:HG23	1:F:857:PRO:CD	2.16	0.65
1:G:31:PHE:HD2	1:G:32:ALA:N	1.95	0.65
1:G:377:ARG:HB3	1:G:388:VAL:HG11	1.78	0.65
1:G:721:VAL:CG2	1:G:905:PHE:CD1	2.79	0.65
1:H:121:TYR:HB2	1:H:227:GLY:HA2	1.79	0.65
1:H:192:THR:HG21	1:H:214:ARG:HG2	1.77	0.65
1:H:358:LEU:CD2	1:H:947:ALA:HB1	2.26	0.65
1:H:476:ASN:HB3	1:H:537:HIS:NE2	2.11	0.65
1:H:556:VAL:O	1:H:556:VAL:HG13	1.96	0.65
1:H:589:VAL:O	1:H:593:LEU:HD12	1.97	0.65
1:H:942:ARG:O	1:H:946:SER:HB3	1.96	0.65
1:I:210:PHE:HB3	1:I:280:ASP:O	1.96	0.65
1:J:96:MET:HG3	1:J:96:MET:O	1.97	0.65
1:J:833:ALA:O	1:J:835:THR:N	2.29	0.65
1:J:893:LEU:HD22	1:L:10:TRP:CZ3	2.31	0.65
1:K:57:THR:O	1:K:623:ALA:HB2	1.97	0.65
1:K:384:TRP:HA	1:K:384:TRP:HE3	1.61	0.65
1:L:107:LEU:CD1	1:L:607:SER:CB	2.74	0.65
4:M:106:SER:H	4:M:109:VAL:HB	1.62	0.65
7:6:24:GLU:CD	7:6:27:THR:HG1	1.99	0.65
1:A:267:SER:N	1:A:268:PRO:HD2	2.11	0.65
1:A:515:ASP:O	1:A:517:TYR:N	2.30	0.65
1:A:665:ILE:HD11	1:A:916:LEU:HD23	1.79	0.65
1:B:5:SER:CA	6:U:185:THR:HB	2.27	0.65
1:B:943:THR:CG2	1:B:944:PRO:HD2	2.18	0.65
1:D:633:MET:O	1:D:636:ASN:HB3	1.97	0.65
1:E:77:THR:C	5:P:76:ARG:HH22	1.97	0.65
1:E:139:GLU:O	1:E:147:VAL:HA	1.97	0.65
1:E:174:LEU:CD2	1:E:186:ASP:OD2	2.45	0.65
1:E:204:TRP:CZ2	1:E:415:ASN:HA	2.31	0.65
1:F:140:LYS:HG3	1:F:147:VAL:HG22	1.79	0.65
1:F:725:PHE:HB2	1:F:729:VAL:HG22	1.78	0.65
1:G:276:GLU:O	1:I:440:TRP:CH2	2.48	0.65
1:G:343:GLY:O	1:G:355:VAL:CG1	2.45	0.65
1:G:651:ASN:HB3	1:G:919:LEU:HB2	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:15:ILE:HG12	1:I:925:VAL:HG11	1.78	0.65
1:H:603:VAL:HG12	1:H:604:ASP:OD2	1.96	0.65
1:J:762:THR:HG23	1:J:765:TRP:H	1.62	0.65
1:J:809:ILE:HG22	1:J:809:ILE:O	1.95	0.65
1:J:926:VAL:HG12	1:J:940:TYR:CG	2.27	0.65
1:K:241:LYS:CG	1:K:286:GLU:OE2	2.33	0.65
1:K:626:THR:O	1:K:628:SER:N	2.29	0.65
1:L:163:GLY:HA3	1:L:208:GLU:CD	2.17	0.65
4:M:283:LEU:O	4:M:285:GLN:N	2.29	0.65
5:S:76:ARG:HD3	5:S:77:LEU:HG	1.79	0.65
1:B:716:HIS:CE1	1:B:717:THR:HG23	2.32	0.65
1:C:341:ASN:HB2	1:C:584:ASN:ND2	2.11	0.65
1:C:730:SER:HB3	1:C:733:GLY:HA2	1.79	0.65
1:C:846:PHE:HB3	1:C:847:PRO:HD3	1.79	0.65
1:D:415:ASN:OD1	1:D:417:THR:O	2.15	0.65
1:D:417:THR:CG2	1:D:418:GLY:N	2.60	0.65
1:D:510:ALA:HA	1:D:832:LEU:O	1.95	0.65
1:E:134:GLN:HG2	1:E:155:LYS:N	2.10	0.65
1:E:333:LEU:HD13	1:E:592:ILE:HG23	1.78	0.65
1:E:878:ASN:ND2	1:E:880:MET:HB2	2.11	0.65
1:F:331:VAL:CG2	1:F:331:VAL:O	2.44	0.65
1:G:78:TYR:CG	1:G:695:PHE:HE1	2.15	0.65
1:G:587:LYS:O	1:G:587:LYS:HG3	1.97	0.65
1:G:823:HIS:HB3	1:I:196:GLU:CD	2.16	0.65
1:G:917:TYR:CE2	1:G:919:LEU:CB	2.78	0.65
1:G:928:VAL:HG13	1:G:936:ILE:CG2	2.26	0.65
1:H:151:LYS:HE2	1:H:218:LYS:HE3	1.79	0.65
1:H:804:GLN:HB3	1:H:859:VAL:O	1.97	0.65
1:I:174:LEU:HD12	1:I:191:LYS:CE	2.26	0.65
1:I:177:ASP:HB2	1:I:184:LYS:NZ	2.12	0.65
1:I:208:GLU:HB2	1:I:211:TYR:CZ	2.32	0.65
1:J:724:MET:O	1:J:902:ASP:OD2	2.15	0.65
1:J:745:ILE:O	1:J:761:MET:HG3	1.97	0.65
1:J:809:ILE:HD11	5:Q:42:LEU:HD11	1.79	0.65
1:L:464:LEU:O	1:L:468:LEU:HB2	1.96	0.65
1:L:754:TYR:HA	1:L:763:LYS:HD2	1.79	0.65
5:P:62:THR:O	5:P:62:THR:HG23	1.97	0.65
6:V:59:ALA:HA	6:V:193:VAL:HG21	1.79	0.65
7:2:24:GLU:O	7:2:24:GLU:HG3	1.97	0.65
1:A:198:GLN:CD	1:B:839:GLY:H	1.99	0.65
1:B:116:TYR:HB2	1:C:402:GLY:HA3	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:391:TYR:HD1	1:B:392:ASP:O	1.79	0.65
1:C:77:THR:OG1	1:C:78:TYR:CD2	2.50	0.65
1:C:121:TYR:O	1:C:227:GLY:HA2	1.96	0.65
1:D:313:VAL:HG11	1:F:202:GLU:HG3	1.78	0.65
1:D:360:ASP:O	1:D:361:ARG:HG3	1.97	0.65
1:E:510:ALA:HA	1:E:832:LEU:O	1.97	0.65
1:E:837:ARG:O	1:E:837:ARG:CG	2.35	0.65
1:E:845:ASN:O	1:E:845:ASN:CG	2.35	0.65
1:F:3:THR:N	1:F:4:PRO:CD	2.59	0.65
1:F:576:PRO:CG	1:F:631:GLU:CD	2.65	0.65
1:F:594:GLN:HG3	1:F:703:GLY:O	1.97	0.65
1:G:821:PHE:CD2	1:I:194:GLN:NE2	2.65	0.65
1:H:74:GLU:CG	1:H:81:LYS:HG2	2.27	0.65
1:H:205:GLN:OE1	1:H:205:GLN:CA	2.43	0.65
1:H:577:GLY:HA2	1:H:933:ARG:NH1	2.12	0.65
1:H:671:ASN:HD21	1:H:673:ALA:HB2	1.61	0.65
1:I:637:ASP:HA	1:I:929:HIS:CE1	2.31	0.65
1:I:925:VAL:O	1:I:925:VAL:HG23	1.97	0.65
1:J:159:VAL:HA	1:L:453:CYS:HG	1.59	0.65
1:J:351:GLN:N	1:J:351:GLN:OE1	2.28	0.65
1:J:651:ASN:HB3	1:J:919:LEU:HB2	1.78	0.65
1:J:840:GLN:HB2	1:J:841:PRO:CD	2.27	0.65
1:J:942:ARG:O	1:J:946:SER:CB	2.44	0.65
1:K:159:VAL:HG11	1:L:841:PRO:HD2	1.79	0.65
1:K:513:LEU:CD1	1:K:819:LEU:HD12	2.25	0.65
1:L:21:SER:HB3	7:9:11:PRO:HG3	1.78	0.65
1:L:134:GLN:CD	1:L:154:THR:HG23	2.01	0.65
1:L:134:GLN:O	1:L:218:LYS:CA	2.44	0.65
1:L:495:PRO:CG	1:L:503:TYR:HB2	2.26	0.65
5:R:91:VAL:CG1	5:R:92:PRO:HD2	2.27	0.65
7:1:22:TRP:HH2	7:1:25:ILE:CD1	2.08	0.65
7:6:17:PRO:HG2	7:6:22:TRP:CZ3	2.32	0.65
1:A:107:LEU:HD13	1:A:607:SER:CB	2.13	0.64
1:A:135:TRP:CB	1:A:307:SER:HB3	2.27	0.64
1:A:202:GLU:O	1:A:206:GLU:CD	2.36	0.64
1:A:417:THR:HG21	1:A:453:CYS:HB3	1.67	0.64
1:A:438:SER:OG	1:B:278:LYS:HB3	1.96	0.64
1:A:628:SER:HA	1:A:631:GLU:HG2	1.78	0.64
1:B:78:TYR:O	1:B:79:LEU:HD23	1.97	0.64
1:C:69:VAL:HG23	1:C:70:PRO:HD2	0.78	0.64
1:C:203:ASN:HD22	1:C:204:TRP:HZ3	1.44	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:503:TYR:C	1:C:505:ASN:H	2.00	0.64
1:C:527:ASP:CG	1:C:863:LYS:HZ2	1.98	0.64
1:D:204:TRP:NE1	1:D:415:ASN:CB	2.58	0.64
1:E:56:VAL:CG1	7:3:24:GLU:OE1	2.30	0.64
1:E:455:GLY:HA2	1:F:161:ALA:HB1	1.79	0.64
1:E:782:HIS:O	1:E:783:VAL:C	2.36	0.64
1:F:115:PRO:CB	1:F:323:TYR:HE1	2.10	0.64
1:F:294:ASP:C	1:F:319:ASN:ND2	2.49	0.64
1:F:652:MET:CE	5:R:20:ARG:NH1	2.56	0.64
1:G:141:GLN:NE2	1:I:446:ILE:HD11	2.11	0.64
1:G:165:ILE:HG12	1:G:174:LEU:O	1.97	0.64
1:G:360:ASP:OD1	1:G:942:ARG:NH2	2.29	0.64
1:G:687:GLU:HB3	1:G:701:TYR:CG	2.31	0.64
1:G:851:ILE:HD11	1:I:116:TYR:HE2	1.61	0.64
1:H:117:SER:HB3	1:H:321:PRO:HG3	1.79	0.64
1:H:339:THR:CG2	1:J:740:PRO:HG2	2.13	0.64
1:H:524:TRP:CZ3	1:H:802:SER:HA	2.32	0.64
1:H:602:ARG:O	5:Q:40:PRO:HG3	1.97	0.64
1:H:662:ASN:CA	1:H:906:GLU:HA	2.27	0.64
1:I:131:ASN:HB2	1:I:132:PRO:HD2	1.78	0.64
1:I:829:THR:CG2	1:I:830:GLY:N	2.60	0.64
1:J:18:GLN:HA	1:J:18:GLN:NE2	2.11	0.64
1:J:97:ALA:CB	1:J:570:LYS:O	2.44	0.64
1:J:730:SER:CB	1:J:741:ASN:O	2.45	0.64
1:J:736:ARG:C	1:J:737:LEU:HD12	2.17	0.64
1:K:66:LEU:HG	1:K:619:PHE:HE1	1.62	0.64
1:K:787:TYR:CE1	1:K:788:LYS:HB2	2.33	0.64
1:L:90:ASP:O	1:L:92:ARG:CG	2.45	0.64
1:L:112:SER:HB2	1:L:501:TYR:CG	2.33	0.64
1:L:489:PRO:CD	1:L:508:VAL:HG12	2.26	0.64
5:Q:34:SER:C	5:Q:43:PRO:HG2	2.17	0.64
5:Q:39:ARG:HG2	5:Q:39:ARG:O	1.96	0.64
6:U:14:GLN:C	6:U:14:GLN:HE21	2.01	0.64
6:U:197:TYR:HE2	6:U:200:PRO:HA	0.54	0.64
6:U:225:GLY:C	6:U:227:ASP:H	1.99	0.64
7:5:24:GLU:CG	7:5:25:ILE:N	2.60	0.64
7:9:9:LEU:O	7:9:9:LEU:HG	1.97	0.64
1:A:103:ILE:HG21	1:A:610:PHE:CE2	2.32	0.64
1:A:687:GLU:HG2	1:A:701:TYR:CG	2.33	0.64
1:A:749:VAL:O	1:A:749:VAL:CG1	2.41	0.64
1:A:799:GLN:O	1:A:801:MET:CE	2.46	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:38:TYR:OH	7:1:24:GLU:CD	2.36	0.64
1:B:114:LYS:O	1:B:322:ASN:O	2.15	0.64
1:B:194:GLN:CG	1:B:196:GLU:HG2	2.27	0.64
1:D:522:ALA:HB2	1:F:552:ASN:OD1	1.96	0.64
1:D:825:ASN:CB	1:F:122:ASN:HA	2.27	0.64
1:F:241:LYS:HG3	1:F:286:GLU:HG3	1.70	0.64
1:G:170:GLN:HG2	1:G:171:GLY:N	2.11	0.64
1:G:755:ASN:HA	1:G:761:MET:O	1.98	0.64
1:G:866:CYS:SG	1:G:869:VAL:HG12	2.36	0.64
1:H:486:LYS:HG2	1:H:509:VAL:CG1	2.27	0.64
1:H:923:PHE:HB3	1:H:943:THR:CG2	2.11	0.64
1:I:818:THR:C	1:I:820:PRO:HD2	2.18	0.64
1:J:93:VAL:HG11	1:J:575:LEU:CD2	2.27	0.64
1:K:60:ARG:HD2	1:K:624:HIS:CE1	2.32	0.64
1:K:162:THR:HG1	1:K:193:PHE:HD2	1.37	0.64
2:N:324:LYS:HB3	2:N:325:LYS:HD2	1.77	0.64
5:P:19:THR:O	5:P:20:ARG:C	2.27	0.64
5:Q:32:MET:HA	5:Q:45:ASN:O	1.96	0.64
1:A:419:THR:HG22	1:A:420:ASN:N	2.12	0.64
1:B:58:THR:OG1	1:B:623:ALA:N	2.29	0.64
1:B:90:ASP:OD2	1:B:933:ARG:CZ	2.45	0.64
1:D:462:ILE:HG12	1:D:463:ASN:N	2.12	0.64
1:E:15:ILE:HD11	1:F:923:PHE:CB	2.27	0.64
1:E:557:PRO:HD2	1:F:860:THR:CG2	2.27	0.64
1:E:589:VAL:HG13	1:E:590:ASN:H	1.62	0.64
1:E:681:THR:HG21	1:E:712:PHE:CD1	2.32	0.64
1:E:745:ILE:CG1	1:E:765:TRP:CE2	2.73	0.64
1:F:243:LYS:N	1:F:243:LYS:CD	2.61	0.64
1:F:300:LYS:CG	1:F:301:PRO:HD2	2.27	0.64
1:F:334:MET:HG3	1:F:336:TYR:CE1	2.32	0.64
1:G:134:GLN:CD	1:G:155:LYS:NZ	2.51	0.64
1:H:328:ASP:C	1:H:328:ASP:OD2	2.33	0.64
1:H:650:ALA:HB2	1:H:942:ARG:CZ	2.23	0.64
1:H:923:PHE:C	1:H:943:THR:CG2	2.65	0.64
1:I:774:TYR:HB3	1:I:788:LYS:HE3	1.78	0.64
1:J:463:ASN:ND2	1:J:466:ALA:H	1.96	0.64
1:J:755:ASN:OD1	1:J:755:ASN:N	2.26	0.64
1:J:774:TYR:CB	1:J:788:LYS:HE2	2.27	0.64
1:K:88:VAL:HB	1:K:577:GLY:H	1.62	0.64
1:K:116:TYR:CE2	1:L:851:ILE:HD11	2.31	0.64
1:K:187:ILE:H	1:K:191:LYS:HB3	1.62	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:589:VAL:HG21	1:K:606:ALA:HB3	1.80	0.64
1:K:620:PHE:HA	1:L:778:TYR:CD2	2.32	0.64
1:K:638:THR:CG2	1:K:639:HIS:ND1	2.60	0.64
1:K:723:ILE:O	1:K:730:SER:CA	2.36	0.64
1:L:531:ASN:HB3	1:L:714:LEU:CD1	2.28	0.64
1:L:720:LYS:HD3	1:L:742:GLU:OE1	1.97	0.64
1:L:798:PHE:CD2	1:L:798:PHE:C	2.69	0.64
1:L:912:GLU:OE2	1:L:912:GLU:CA	2.38	0.64
5:P:9:GLU:O	5:P:13:PHE:CE2	2.50	0.64
5:R:2:ASN:O	5:R:6:GLY:N	2.30	0.64
5:R:22:PRO:HB2	5:R:24:TRP:CE2	2.32	0.64
1:A:3:THR:CB	1:A:4:PRO:CD	2.74	0.64
1:A:95:ASP:OD1	1:A:95:ASP:C	2.36	0.64
1:A:126:PRO:HD2	1:B:828:PHE:CE2	2.32	0.64
1:A:431:GLY:O	1:A:437:GLU:OE1	2.15	0.64
1:A:539:ARG:HH11	1:A:539:ARG:CB	2.06	0.64
1:A:689:PRO:CD	1:A:705:ILE:CG2	2.72	0.64
1:B:190:ASP:OD2	1:B:236:LYS:HG2	1.89	0.64
1:B:320:ARG:NE	1:B:597:LEU:HD11	2.13	0.64
1:B:328:ASP:O	1:B:329:ASN:HB2	1.95	0.64
1:B:831:TYR:HE2	1:B:832:LEU:HD11	1.61	0.64
1:C:191:LYS:CB	1:C:194:GLN:HE21	2.09	0.64
1:C:409:ASN:O	1:C:461:GLU:HB2	1.97	0.64
1:C:515:ASP:HB3	1:C:517:TYR:CE2	2.32	0.64
1:D:943:THR:OG1	1:D:944:PRO:HD3	1.97	0.64
1:E:59:ASP:C	1:E:60:ARG:O	2.33	0.64
1:E:273:SER:O	1:E:274:GLY:O	2.15	0.64
1:E:449:GLN:NE2	1:E:450:ASN:HD21	1.95	0.64
1:E:653:LEU:HD23	1:E:915:LEU:HG	1.80	0.64
1:E:672:TRP:O	1:E:894:TYR:HB3	1.96	0.64
1:F:31:PHE:O	1:F:35:THR:HG22	1.98	0.64
1:F:494:LEU:HD21	1:F:506:GLY:HA3	1.78	0.64
1:F:731:TRP:O	1:F:733:GLY:N	2.29	0.64
1:G:36:ASP:OD1	1:G:36:ASP:C	2.36	0.64
1:G:135:TRP:HB2	1:G:307:SER:O	1.98	0.64
1:G:224:PRO:O	1:G:226:TYR:N	2.30	0.64
1:G:600:ASP:CG	1:G:700:VAL:O	2.35	0.64
1:H:53:THR:O	1:H:53:THR:CG2	2.42	0.64
1:I:193:PHE:HE1	1:I:284:TYR:HD1	1.43	0.64
1:I:234:ASN:ND2	1:I:241:LYS:HE2	2.12	0.64
1:I:377:ARG:HB3	1:I:388:VAL:HG21	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:78:TYR:CD1	1:J:79:LEU:HG	2.31	0.64
1:J:135:TRP:HA	1:J:218:LYS:HB3	1.78	0.64
1:J:322:ASN:HB3	1:J:597:LEU:HB2	1.75	0.64
1:J:825:ASN:OD1	1:L:124:LEU:HB2	1.95	0.64
1:K:36:ASP:O	1:K:36:ASP:CG	2.34	0.64
1:K:440:TRP:CE3	1:L:276:GLU:OE2	2.50	0.64
1:K:575:LEU:HB3	1:K:576:PRO:HD2	1.78	0.64
1:L:107:LEU:CD1	1:L:607:SER:HA	2.27	0.64
1:L:131:ASN:CB	1:L:132:PRO:CD	2.75	0.64
1:L:543:LEU:HD12	1:L:596:SER:HB2	1.80	0.64
1:L:640:ASP:HB3	1:L:929:HIS:HA	1.79	0.64
1:L:652:MET:SD	1:L:920:PHE:CE1	2.90	0.64
1:L:665:ILE:HD13	1:L:918:LEU:CD2	2.25	0.64
2:N:83:VAL:HG13	2:N:83:VAL:O	1.97	0.64
5:S:28:ARG:HB3	5:S:31:VAL:HG21	1.77	0.64
1:A:202:GLU:CB	1:B:313:VAL:HG11	2.26	0.64
1:A:845:ASN:HB3	1:C:239:GLN:OE1	1.97	0.64
1:B:363:THR:HA	1:B:366:SER:HB3	1.79	0.64
1:B:831:TYR:CD2	1:B:832:LEU:HG	2.33	0.64
1:C:167:ILE:HD12	1:C:280:ASP:CG	2.16	0.64
1:C:770:MET:HG3	1:C:776:ILE:HG13	1.79	0.64
1:D:103:ILE:CG2	1:D:610:PHE:HD2	2.11	0.64
1:D:139:GLU:HG3	1:D:140:LYS:N	2.12	0.64
1:D:276:GLU:CD	1:D:276:GLU:H	2.01	0.64
1:D:885:LEU:HB2	1:F:50:VAL:HA	1.79	0.64
1:E:200:GLY:O	1:E:201:GLU:C	2.36	0.64
1:E:747:ARG:NH2	1:E:754:TYR:CE1	2.65	0.64
1:G:524:TRP:HA	1:G:524:TRP:CE3	2.32	0.64
1:H:157:PHE:CE2	1:H:159:VAL:HG23	2.32	0.64
1:H:419:THR:HG23	1:H:419:THR:O	1.95	0.64
1:I:480:TYR:OH	1:I:538:PRO:HD3	1.98	0.64
1:I:514:VAL:HG21	1:I:526:LEU:HD11	1.80	0.64
1:I:582:GLU:C	1:I:582:GLU:OE1	2.36	0.64
1:J:554:ARG:HH11	1:J:554:ARG:HG3	1.62	0.64
1:K:134:GLN:OE1	1:K:154:THR:CG2	2.45	0.64
1:K:178:GLU:HG2	1:K:179:THR:H	1.57	0.64
1:K:483:ASP:OD1	1:K:507:ARG:NH1	2.31	0.64
1:K:513:LEU:HD13	1:K:819:LEU:HD12	1.78	0.64
1:K:661:THR:OG1	1:K:662:ASN:N	2.29	0.64
1:K:672:TRP:CZ2	1:K:901:LEU:HD22	2.33	0.64
1:L:474:TYR:OH	1:L:834:PRO:HG3	1.98	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:908:ASP:CB	1:L:909:PRO:HD2	2.28	0.64
2:N:373:LEU:HD12	2:N:373:LEU:O	1.98	0.64
5:R:52:ALA:O	5:R:53:THR:C	2.33	0.64
1:A:281:ILE:HD12	1:C:423:TYR:CD1	2.28	0.64
1:A:323:TYR:H	1:A:596:SER:HB2	1.62	0.64
1:A:422:THR:O	1:B:264:PRO:CD	2.45	0.64
1:A:822:GLN:OE1	1:A:846:PHE:CZ	2.50	0.64
1:B:687:GLU:CD	1:B:701:TYR:CE2	2.71	0.64
1:C:169:ASN:ND2	1:C:169:ASN:H	1.96	0.64
1:C:515:ASP:OD2	1:C:516:ALA:N	2.29	0.64
1:D:52:PRO:CB	7:4:24:GLU:HB3	2.28	0.64
1:D:235:GLU:OE1	1:E:815:LYS:HD2	1.98	0.64
1:D:839:GLY:HA2	1:F:198:GLN:HG2	1.78	0.64
1:E:398:ILE:CD1	1:E:473:LEU:HD11	2.28	0.64
1:E:814:TYR:O	1:E:815:LYS:HD3	1.97	0.64
1:E:922:VAL:CG1	1:E:944:PRO:CG	2.64	0.64
1:F:136:GLU:HG2	1:F:218:LYS:CE	2.05	0.64
1:F:192:THR:O	1:F:193:PHE:CE1	2.46	0.64
1:F:397:ILE:HD12	1:F:523:ARG:HH22	1.61	0.64
1:G:111:PRO:HG3	1:G:554:ARG:HH21	1.63	0.64
1:G:377:ARG:HG2	1:G:377:ARG:HH11	1.62	0.64
1:G:729:VAL:HG13	1:G:733:GLY:HA2	1.78	0.64
1:G:753:GLY:O	1:G:763:LYS:CE	2.44	0.64
1:H:149:GLN:O	1:H:150:GLU:HG3	1.96	0.64
1:H:214:ARG:NH2	1:H:286:GLU:OE2	2.30	0.64
1:H:564:GLN:HG3	1:H:564:GLN:O	1.97	0.64
1:I:814:TYR:C	1:I:815:LYS:HD2	2.17	0.64
1:I:831:TYR:HB2	1:I:838:GLN:HE21	1.62	0.64
1:J:100:TYR:HE2	1:J:561:GLN:HG2	1.62	0.64
1:J:364:GLU:CA	1:J:364:GLU:OE2	2.45	0.64
1:K:445:ALA:HB3	1:K:449:GLN:HA	1.79	0.64
1:K:608:VAL:HG23	1:K:608:VAL:O	1.96	0.64
1:K:665:ILE:CD1	1:K:918:LEU:CD2	2.74	0.64
1:K:818:THR:C	1:K:820:PRO:HD2	2.18	0.64
1:L:168:THR:C	1:L:170:GLN:H	1.99	0.64
1:L:333:LEU:CB	1:L:592:ILE:HG21	2.27	0.64
1:L:619:PHE:N	1:L:619:PHE:CD1	2.62	0.64
1:L:725:PHE:O	1:L:900:ALA:O	0.65	0.64
1:L:764:ASP:O	1:L:768:VAL:HG23	1.98	0.64
2:N:202:LYS:CD	2:N:204:ASP:OD2	2.45	0.64
2:N:416:MET:O	2:N:418:PHE:N	2.30	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:S:13:PHE:CG	5:S:14:SER:N	2.66	0.64
1:A:12:TYR:CE1	1:B:927:ARG:CZ	2.81	0.64
1:A:214:ARG:NH2	1:A:241:LYS:HE2	2.12	0.64
1:A:734:ASN:OD1	1:E:952:THR:HG22	1.98	0.64
1:B:936:ILE:HG12	1:B:937:GLU:H	1.63	0.64
1:C:35:THR:O	1:C:35:THR:HG23	1.98	0.64
1:C:733:GLY:O	1:C:736:ARG:HG2	1.97	0.64
1:D:198:GLN:NE2	1:F:456:ASN:CG	2.45	0.64
1:D:518:ILE:HD13	1:D:526:LEU:HD23	1.80	0.64
1:D:705:ILE:CD1	1:D:708:LEU:CD1	2.60	0.64
1:D:844:ALA:O	1:F:229:PHE:CA	2.46	0.64
1:F:3:THR:N	1:F:4:PRO:HD2	2.12	0.64
1:F:273:SER:O	1:F:274:GLY:O	2.15	0.64
1:F:827:GLY:HA2	1:F:839:GLY:CA	2.28	0.64
1:G:279:ALA:HB2	1:I:426:VAL:HG21	1.79	0.64
1:G:333:LEU:CD1	1:G:592:ILE:CG2	2.74	0.64
1:I:76:THR:HG22	1:I:77:THR:N	2.12	0.64
1:I:102:ASP:OD2	1:I:102:ASP:C	2.35	0.64
1:J:52:PRO:CG	7:9:23:ASN:O	2.46	0.64
1:J:152:ASP:HA	1:L:445:ALA:H	1.61	0.64
1:J:299:TYR:CE2	1:J:301:PRO:HD3	2.33	0.64
1:J:364:GLU:OE2	1:J:364:GLU:HA	1.96	0.64
1:L:267:SER:C	1:L:277:TYR:CE2	2.71	0.64
1:L:422:THR:HA	1:L:450:ASN:O	1.97	0.64
2:N:492:THR:HG22	2:N:498:THR:HG23	1.80	0.64
4:M:194:LEU:HD23	6:U:208:TYR:HB3	1.77	0.64
4:M:249:ASN:CG	4:M:250:SER:N	2.47	0.64
6:U:2:SER:CB	6:U:200:PRO:CD	2.76	0.64
1:A:730:SER:OG	1:A:732:PRO:HD2	1.98	0.64
1:B:81:LYS:CB	1:B:584:ASN:HB3	2.28	0.64
1:B:242:PHE:CE2	1:B:288:VAL:HA	2.26	0.64
1:B:681:THR:HG21	1:B:712:PHE:CD1	2.32	0.64
1:B:734:ASN:CB	1:B:736:ARG:HE	2.04	0.64
1:C:348:GLN:HB3	1:C:578:SER:O	1.98	0.64
1:D:132:PRO:HB3	1:D:157:PHE:O	1.98	0.64
1:E:194:GLN:NE2	1:F:821:PHE:HD2	1.94	0.64
1:E:730:SER:HB2	1:E:732:PRO:HD2	1.79	0.64
1:F:103:ILE:H	1:F:560:ILE:HD12	1.54	0.64
1:F:647:LEU:O	1:F:647:LEU:CG	2.45	0.64
1:G:72:ASP:OD1	1:G:72:ASP:C	2.35	0.64
1:G:155:LYS:CG	1:G:261:PHE:HZ	2.11	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:343:GLY:O	1:G:355:VAL:HG11	1.97	0.64
1:G:721:VAL:HG12	1:G:743:PHE:HB2	1.78	0.64
1:G:732:PRO:C	1:G:734:ASN:H	1.99	0.64
1:G:922:VAL:HB	1:G:944:PRO:HD2	1.78	0.64
1:H:657:PRO:HG2	5:Q:12:LEU:HD13	1.80	0.64
1:I:134:GLN:CG	1:I:154:THR:HG23	2.27	0.64
1:I:260:TYR:HE2	1:I:282:ILE:HG21	1.60	0.64
1:I:410:TYR:HB2	1:I:412:PHE:CZ	2.33	0.64
1:I:599:ASN:HD22	1:I:599:ASN:H	1.43	0.64
1:J:152:ASP:HA	1:L:444:ASP:HA	1.78	0.64
1:J:266:GLY:CA	1:J:277:TYR:HD2	2.11	0.64
1:J:842:TYR:CD1	1:J:843:PRO:HD2	2.33	0.64
1:L:109:ARG:NH2	1:L:550:LEU:HB3	2.13	0.64
2:N:282:VAL:CG1	2:N:283:PRO:HD3	2.28	0.64
2:N:392:LEU:HD12	2:N:483:ILE:HG21	1.79	0.64
4:M:138:LEU:HG	4:M:170:VAL:HG12	1.80	0.64
5:R:1:MET:HE3	5:R:1:MET:H1	1.62	0.64
1:A:407:LEU:HD21	1:C:474:TYR:CG	2.21	0.64
1:A:677:GLY:N	1:A:921:GLU:HG3	2.13	0.64
1:B:14:HIS:O	1:B:48:PRO:HG3	1.97	0.64
1:B:155:LYS:CD	1:B:261:PHE:CZ	2.81	0.64
1:B:235:GLU:OE2	1:B:235:GLU:N	2.30	0.64
1:B:523:ARG:HH11	1:B:523:ARG:HB3	1.62	0.64
1:B:652:MET:CE	2:N:92:GLU:OE1	2.46	0.64
1:B:678:TRP:CZ2	1:B:901:LEU:HD21	2.33	0.64
1:C:224:PRO:CG	1:C:316:SER:OG	2.46	0.64
1:C:241:LYS:CD	1:C:256:ILE:CD1	2.66	0.64
1:C:852:GLY:O	1:C:854:THR:N	2.30	0.64
1:C:891:ASN:HB2	6:U:224:ASP:OD2	1.98	0.64
1:D:338:SER:HB2	1:D:692:GLY:HA2	1.80	0.64
1:D:552:ASN:O	1:D:552:ASN:OD1	2.16	0.64
1:D:754:TYR:HD1	1:D:754:TYR:H	1.41	0.64
1:D:815:LYS:HD2	1:F:235:GLU:N	2.13	0.64
1:F:345:LEU:O	1:F:345:LEU:HD23	1.97	0.64
1:F:652:MET:HE1	5:R:20:ARG:HH11	1.59	0.64
1:F:929:HIS:O	1:F:929:HIS:ND1	2.31	0.64
1:H:6:MET:O	1:H:6:MET:HG2	1.96	0.64
1:H:264:PRO:HA	1:H:276:GLU:OE2	1.98	0.64
1:H:358:LEU:HD11	1:H:947:ALA:HB2	1.79	0.64
1:H:498:THR:HG23	1:H:503:TYR:CD2	2.33	0.64
1:I:161:ALA:HB3	1:I:198:GLN:NE2	2.12	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:646:TYR:O	7:5:4:ILE:HG22	1.98	0.64
1:J:20:ALA:HA	1:J:23:TYR:CD2	2.33	0.64
1:J:818:THR:HG22	1:J:819:LEU:H	1.63	0.64
1:K:10:TRP:CB	6:V:16:GLN:O	2.45	0.64
1:K:80:TYR:O	1:K:584:ASN:HA	1.97	0.64
1:K:170:GLN:HG3	1:K:185:LYS:CD	2.28	0.64
2:N:172:MET:HG3	2:N:435:ARG:NH2	2.10	0.64
2:N:399:PHE:CB	2:N:409:PRO:HB3	2.28	0.64
5:P:38:GLY:O	5:P:40:PRO:HD3	1.98	0.64
5:S:50:THR:O	5:S:50:THR:CG2	2.45	0.64
1:A:20:ALA:O	1:A:24:LEU:HD23	1.98	0.64
1:A:67:ARG:HB2	1:A:616:TYR:CE2	2.32	0.64
1:A:187:ILE:CB	1:A:190:ASP:OD1	2.45	0.64
1:A:242:PHE:CD1	1:A:287:ASN:O	2.50	0.64
1:A:444:ASP:C	1:B:152:ASP:HA	2.17	0.64
1:A:699:PHE:CZ	1:A:705:ILE:CD1	2.81	0.64
1:A:761:MET:HE2	1:A:766:PHE:HD1	1.63	0.64
1:B:188:TYR:CD1	1:B:256:ILE:CD1	2.80	0.64
1:B:315:GLN:HE22	1:B:836:MET:N	1.96	0.64
1:C:62:GLN:OE1	1:C:92:ARG:HD3	1.98	0.64
1:D:159:VAL:HG13	1:F:453:CYS:CB	2.23	0.64
1:D:446:ILE:CD1	1:E:141:GLN:HB2	2.18	0.64
1:D:917:TYR:O	1:D:918:LEU:C	2.34	0.64
1:D:929:HIS:CB	1:D:937:GLU:HB3	2.22	0.64
1:E:223:LYS:HG3	1:E:292:THR:HG21	1.80	0.64
1:F:252:LYS:HG2	1:F:252:LYS:O	1.98	0.64
1:F:649:ALA:CA	1:F:920:PHE:O	2.45	0.64
1:F:773:HIS:CE1	1:F:872:ARG:HD3	2.33	0.64
1:F:864:PHE:CD1	1:F:864:PHE:C	2.72	0.64
1:G:224:PRO:HG3	1:G:314:GLN:HB2	1.80	0.64
1:G:319:ASN:HD22	1:G:319:ASN:H	1.43	0.64
1:H:933:ARG:HH11	1:H:933:ARG:HG3	1.63	0.64
1:J:915:LEU:HD12	1:J:915:LEU:N	2.13	0.64
1:J:919:LEU:HD23	1:J:919:LEU:H	1.63	0.64
1:K:159:VAL:CG1	1:L:840:GLN:HB2	2.28	0.64
1:K:287:ASN:ND2	1:K:287:ASN:N	2.46	0.64
1:L:59:ASP:OD2	1:L:59:ASP:O	2.16	0.64
4:M:298:LEU:CD1	6:U:57:GLU:HG3	2.28	0.64
1:A:201:GLU:HG2	1:B:838:GLN:OE1	1.98	0.63
1:A:459:ALA:H	1:C:837:ARG:NH1	1.94	0.63
1:A:613:VAL:O	1:A:614:ASN:OD1	2.15	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:838:GLN:HA	1:C:198:GLN:OE1	1.98	0.63
1:B:43:ASN:OD1	1:B:44:LYS:N	2.31	0.63
1:B:779:GLN:NE2	1:C:39:PHE:HA	2.13	0.63
1:C:679:SER:O	1:C:918:LEU:HD12	1.98	0.63
1:D:912:GLU:CB	1:D:913:PRO:CD	2.75	0.63
1:E:217:LYS:HG2	1:E:286:GLU:O	1.98	0.63
1:E:498:THR:HG23	1:E:503:TYR:HE2	1.59	0.63
1:E:723:ILE:HD11	1:E:873:ILE:HD12	1.80	0.63
1:F:152:ASP:C	1:F:154:THR:N	2.50	0.63
1:G:348:GLN:CB	1:G:578:SER:O	2.46	0.63
1:G:922:VAL:HG23	1:G:923:PHE:N	2.12	0.63
1:H:67:ARG:CZ	1:I:752:GLU:CD	2.65	0.63
1:H:372:ASP:HB2	1:H:377:ARG:HD2	1.79	0.63
1:H:905:PHE:O	1:H:907:VAL:N	2.31	0.63
1:J:552:ASN:CG	1:K:522:ALA:HB2	2.18	0.63
1:J:650:ALA:HA	1:J:942:ARG:NH2	2.13	0.63
1:K:188:TYR:O	1:K:241:LYS:NZ	2.26	0.63
1:K:195:PRO:HB3	1:L:840:GLN:HE22	1.59	0.63
1:K:464:LEU:HD23	1:K:465:GLN:N	2.12	0.63
1:K:731:TRP:O	1:K:733:GLY:N	2.30	0.63
1:L:115:PRO:O	1:L:116:TYR:HB3	1.97	0.63
1:L:268:PRO:CD	1:L:277:TYR:CE2	2.73	0.63
1:L:822:GLN:OE1	1:L:846:PHE:CG	2.43	0.63
2:N:133:ARG:HE	2:N:156:TYR:HB3	1.63	0.63
2:N:416:MET:C	2:N:418:PHE:H	1.99	0.63
6:U:13:TYR:HD1	6:U:188:PHE:CE2	2.15	0.63
6:U:168:TYR:HB3	7:1:31:ASN:HD22	1.63	0.63
7:3:24:GLU:HG2	7:3:24:GLU:O	1.97	0.63
1:A:560:ILE:CG2	1:A:561:GLN:H	2.11	0.63
1:A:756:VAL:HG22	1:A:763:LYS:HE3	1.68	0.63
1:A:841:PRO:O	1:A:842:TYR:HB2	1.98	0.63
1:B:395:VAL:HG21	1:B:537:HIS:NE2	2.12	0.63
1:B:426:VAL:O	1:C:260:TYR:HB2	1.96	0.63
1:B:828:PHE:N	1:B:828:PHE:CD1	2.65	0.63
1:B:851:ILE:HD13	1:B:851:ILE:H	1.63	0.63
1:C:260:TYR:N	1:C:260:TYR:CD1	2.65	0.63
1:C:400:ASN:HB2	1:C:469:TRP:HZ2	1.64	0.63
1:C:863:LYS:O	1:C:863:LYS:CG	2.46	0.63
1:D:344:VAL:HA	1:D:355:VAL:HG11	1.80	0.63
1:D:383:MET:HG2	1:D:383:MET:O	1.97	0.63
1:E:107:LEU:HD22	1:E:593:LEU:HD23	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:200:GLY:C	1:E:202:GLU:N	2.50	0.63
1:E:218:LYS:O	1:E:218:LYS:CG	2.42	0.63
1:E:460:MET:HE1	1:F:411:CYS:CB	2.27	0.63
1:F:398:ILE:CD1	1:F:473:LEU:HD11	2.20	0.63
1:F:682:ARG:NE	1:F:907:VAL:HG11	2.13	0.63
1:G:13:MET:SD	1:H:941:LEU:CD1	2.86	0.63
1:G:298:VAL:HG23	1:G:317:MET:HG2	1.78	0.63
1:G:427:LYS:HG2	1:G:427:LYS:O	1.98	0.63
1:H:141:GLN:O	1:H:141:GLN:HG3	1.97	0.63
1:I:417:THR:HG22	1:I:457:VAL:CG1	2.21	0.63
1:J:351:GLN:CD	1:J:351:GLN:H	2.01	0.63
1:J:725:PHE:CE1	1:J:731:TRP:HB3	2.33	0.63
1:J:913:PRO:CB	5:R:8:PHE:HD1	2.00	0.63
1:L:20:ALA:H	1:L:47:ASN:HB3	1.62	0.63
1:L:254:LEU:HB2	1:L:256:ILE:HD11	1.80	0.63
1:L:602:ARG:HD2	5:Q:80:SER:HB2	1.80	0.63
1:L:665:ILE:CD1	1:L:918:LEU:HD22	2.28	0.63
2:N:332:GLU:CG	2:N:333:LYS:N	2.61	0.63
4:M:387:HIS:O	4:M:390:PRO:HG3	1.98	0.63
5:P:15:PRO:HB3	5:R:15:PRO:CG	2.28	0.63
5:Q:36:VAL:HG22	5:Q:43:PRO:HB2	1.74	0.63
5:Q:39:ARG:NH1	5:Q:60:ASP:HA	2.13	0.63
5:R:82:MET:CG	5:R:88:SER:CB	2.65	0.63
6:U:168:TYR:CB	7:1:31:ASN:CB	2.76	0.63
1:A:99:THR:HA	1:A:616:TYR:O	1.98	0.63
1:A:173:LEU:HD12	1:A:184:LYS:O	1.99	0.63
1:A:198:GLN:HB2	1:C:456:ASN:HD21	1.63	0.63
1:A:417:THR:HG22	1:A:453:CYS:HB2	1.77	0.63
1:A:510:ALA:HB1	1:A:832:LEU:HD12	1.79	0.63
1:A:676:ARG:HB2	1:A:921:GLU:HG3	1.81	0.63
1:A:804:GLN:O	1:A:850:LEU:HD11	1.97	0.63
1:B:162:THR:HG23	1:B:163:GLY:N	2.11	0.63
1:B:515:ASP:CG	1:B:516:ALA:H	2.02	0.63
1:B:714:LEU:HD21	1:B:910:MET:CE	2.28	0.63
1:B:755:ASN:O	1:B:763:LYS:NZ	2.30	0.63
1:B:864:PHE:CD1	1:B:864:PHE:O	2.52	0.63
1:C:136:GLU:OE1	1:C:218:LYS:HD3	1.97	0.63
1:C:168:THR:C	1:C:170:GLN:H	2.02	0.63
1:C:915:LEU:HD12	1:C:915:LEU:O	1.99	0.63
1:D:839:GLY:HA2	1:F:198:GLN:CG	2.28	0.63
1:E:192:THR:HG22	1:E:193:PHE:CE1	2.31	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:630:LEU:O	1:E:630:LEU:CG	2.45	0.63
1:F:482:PRO:HD3	1:F:529:MET:HB3	1.79	0.63
1:F:739:THR:HG21	1:F:744:GLU:CB	2.28	0.63
1:F:754:TYR:HA	1:F:763:LYS:HB2	1.80	0.63
1:G:16:ALA:O	1:G:48:PRO:CB	2.45	0.63
1:G:443:ASP:OD1	1:H:150:GLU:CG	2.42	0.63
1:G:697:PRO:O	5:R:81:TYR:HB3	1.98	0.63
1:G:776:ILE:CD1	1:G:782:HIS:O	2.46	0.63
1:G:904:THR:HG22	1:G:904:THR:O	1.97	0.63
1:H:204:TRP:HZ3	1:I:312:LEU:HB3	1.63	0.63
1:H:724:MET:N	1:H:902:ASP:O	2.27	0.63
1:H:912:GLU:HB2	1:H:913:PRO:CD	2.27	0.63
1:I:478:ALA:C	1:I:480:TYR:H	2.02	0.63
1:I:720:LYS:HZ3	5:S:24:TRP:HB2	1.63	0.63
1:I:834:PRO:O	1:I:835:THR:HG23	1.98	0.63
1:J:159:VAL:CA	1:L:453:CYS:SG	2.74	0.63
1:J:199:VAL:HG13	1:J:206:GLU:CG	2.28	0.63
1:J:663:VAL:N	5:P:12:LEU:HD23	2.12	0.63
1:K:162:THR:HG21	1:K:193:PHE:HE2	1.59	0.63
1:K:495:PRO:HG3	1:K:502:GLU:CB	2.24	0.63
1:K:569:ILE:HA	1:K:572:LEU:HD22	1.81	0.63
4:M:162:PHE:CZ	4:M:237:ILE:HD13	2.33	0.63
4:M:319:ILE:HD13	4:M:359:PRO:CB	2.28	0.63
6:V:84:PRO:HG2	6:V:173:SER:OG	1.98	0.63
1:A:79:LEU:HD13	1:A:341:ASN:HD22	1.62	0.63
1:A:94:LEU:HD23	1:A:574:LEU:HD23	1.79	0.63
1:A:103:ILE:HG21	1:A:610:PHE:CD2	2.32	0.63
1:A:128:GLY:O	1:C:204:TRP:CZ3	2.51	0.63
1:B:108:ASP:OD2	1:B:606:ALA:O	2.17	0.63
1:B:173:LEU:HD11	1:B:183:GLY:HA3	1.79	0.63
1:B:324:ILE:CD1	1:B:595:SER:CA	2.76	0.63
1:C:135:TRP:HH2	1:C:309:GLU:HB3	1.62	0.63
1:D:196:GLU:OE2	1:E:823:HIS:HB3	1.98	0.63
1:D:567:PHE:CE1	1:D:926:VAL:HG13	2.33	0.63
1:D:640:ASP:O	1:F:45:PHE:HD1	1.81	0.63
1:E:55:ASP:O	1:E:623:ALA:CB	2.47	0.63
1:E:575:LEU:HB3	1:E:576:PRO:CD	2.22	0.63
1:G:199:VAL:CG2	1:G:200:GLY:N	2.62	0.63
1:G:540:ASN:HD22	1:G:543:LEU:CB	2.12	0.63
1:G:729:VAL:CG1	1:G:733:GLY:HA3	2.18	0.63
1:G:731:TRP:N	1:G:732:PRO:HD2	2.14	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:783:VAL:HG23	1:H:795:PHE:CE2	2.34	0.63
1:I:114:LYS:HE3	1:I:319:ASN:HB2	1.79	0.63
1:I:330:PHE:HE2	1:I:561:GLN:O	1.82	0.63
1:I:572:LEU:CD1	1:I:928:VAL:HG11	2.28	0.63
1:I:724:MET:SD	5:S:20:ARG:NH2	2.72	0.63
1:I:926:VAL:O	1:I:926:VAL:CG1	2.47	0.63
1:J:426:VAL:HG22	1:K:260:TYR:CB	2.28	0.63
1:K:731:TRP:HE1	1:K:888:LEU:HD23	1.63	0.63
1:L:859:VAL:O	1:L:859:VAL:HG13	1.97	0.63
2:N:65:ASP:OD1	2:N:91:ALA:CB	2.45	0.63
5:R:19:THR:O	5:R:20:ARG:C	2.24	0.63
6:U:81:GLN:HE21	6:U:179:ARG:H	1.46	0.63
6:V:27:TYR:H	6:V:27:TYR:HD2	1.46	0.63
1:A:281:ILE:HD11	1:C:423:TYR:CE1	2.28	0.63
1:A:497:ASN:HD22	1:A:497:ASN:N	1.95	0.63
1:B:117:SER:O	1:C:402:GLY:HA3	1.97	0.63
1:B:169:ASN:C	1:B:169:ASN:HD22	2.01	0.63
1:B:622:MET:HB3	1:B:627:ALA:HB2	1.81	0.63
1:D:681:THR:HG1	1:D:870:MET:HB2	1.61	0.63
1:E:396:ARG:CZ	1:E:865:LEU:HD11	2.29	0.63
1:E:410:TYR:HA	1:E:461:GLU:HB2	1.81	0.63
1:F:241:LYS:CG	1:F:286:GLU:CG	2.38	0.63
1:F:286:GLU:OE1	1:F:286:GLU:CA	2.46	0.63
1:F:593:LEU:HB2	1:F:601:LEU:HD12	1.81	0.63
1:F:683:LEU:HD13	1:F:707:TYR:HB2	1.81	0.63
1:F:950:ALA:HB1	1:H:893:LEU:HB2	1.80	0.63
1:G:152:ASP:O	1:I:445:ALA:CB	2.47	0.63
1:G:196:GLU:N	1:G:197:PRO:CD	2.62	0.63
1:G:358:LEU:HD12	1:G:358:LEU:H	1.64	0.63
1:G:749:VAL:O	1:G:749:VAL:CG1	2.30	0.63
1:G:755:ASN:OD1	1:G:760:ASN:HA	1.98	0.63
1:G:845:ASN:HB3	1:I:239:GLN:HE22	1.63	0.63
1:H:425:GLY:O	1:H:440:TRP:HB3	1.95	0.63
1:H:486:LYS:HG2	1:H:509:VAL:HG12	1.81	0.63
1:H:680:PHE:HE1	1:H:873:ILE:HD11	1.63	0.63
1:H:923:PHE:CA	1:H:943:THR:CG2	2.76	0.63
1:H:923:PHE:CA	1:H:943:THR:HG21	2.23	0.63
1:H:940:TYR:N	1:H:940:TYR:CD1	2.61	0.63
1:H:942:ARG:O	1:H:946:SER:CB	2.47	0.63
1:I:757:ALA:HB3	1:I:759:CYS:SG	2.38	0.63
1:I:866:CYS:O	1:I:867:ASP:HB3	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:114:LYS:HA	1:K:851:ILE:CD1	2.29	0.63
1:J:267:SER:HB2	1:J:268:PRO:CD	2.27	0.63
1:J:296:HIS:HD1	1:J:319:ASN:CB	2.10	0.63
1:J:413:PRO:HG2	1:J:417:THR:O	1.98	0.63
1:J:732:PRO:HG3	1:J:743:PHE:HE1	1.62	0.63
1:J:740:PRO:HG3	1:L:63:ARG:NH1	2.14	0.63
1:J:787:TYR:CD1	1:J:788:LYS:N	2.67	0.63
1:K:109:ARG:HG3	1:K:109:ARG:HH11	1.64	0.63
1:K:695:PHE:C	1:K:695:PHE:CD1	2.72	0.63
1:L:20:ALA:C	7:9:9:LEU:HD11	2.19	0.63
1:L:153:VAL:O	1:L:153:VAL:CG1	2.46	0.63
1:L:399:GLU:HB3	1:L:523:ARG:HA	1.80	0.63
4:M:14:LEU:O	4:M:14:LEU:HG	1.99	0.63
4:M:152:VAL:N	4:M:153:PRO:CD	2.61	0.63
4:M:199:LEU:HD11	6:U:1:MET:CE	2.28	0.63
5:R:22:PRO:HB3	5:R:24:TRP:CZ2	2.34	0.63
6:U:168:TYR:CB	7:1:31:ASN:ND2	2.62	0.63
6:V:215:ASN:HD22	6:V:223:VAL:HG11	1.62	0.63
7:6:26:GLY:C	7:6:28:SER:H	2.01	0.63
1:A:169:ASN:HD22	1:C:428:ILE:CG2	2.10	0.63
1:A:194:GLN:O	1:A:197:PRO:HD2	1.99	0.63
1:A:210:PHE:HA	1:A:280:ASP:CG	2.18	0.63
1:A:443:ASP:O	1:B:150:GLU:HB3	1.98	0.63
1:A:520:ILE:HD11	1:C:120:ALA:HB2	1.79	0.63
1:A:539:ARG:HB3	1:A:539:ARG:NH1	2.06	0.63
1:A:752:GLU:O	1:C:104:ARG:NH1	2.32	0.63
1:B:75:ALA:HB2	1:B:80:TYR:CD1	2.34	0.63
1:B:167:ILE:HD13	1:B:282:ILE:HG23	1.81	0.63
1:B:194:GLN:HG2	1:B:197:PRO:HD2	1.81	0.63
1:B:392:ASP:OD2	1:B:393:PRO:HD2	1.98	0.63
1:C:721:VAL:CG2	1:C:743:PHE:HB2	2.27	0.63
1:D:638:THR:CG2	1:D:639:HIS:CD2	2.82	0.63
1:E:90:ASP:OD2	1:J:350:SER:HB3	1.99	0.63
1:E:268:PRO:HA	1:E:275:GLU:CA	2.20	0.63
1:F:655:PRO:O	5:R:17:LEU:HD13	1.99	0.63
1:G:52:PRO:HB2	1:G:56:VAL:HG21	1.79	0.63
1:G:427:LYS:HB3	1:G:441:GLU:OE1	1.99	0.63
1:G:449:GLN:CB	1:H:153:VAL:HG22	2.28	0.63
1:H:100:TYR:CD1	1:H:100:TYR:C	2.72	0.63
1:H:166:ASN:HA	1:H:210:PHE:CE1	2.33	0.63
1:H:760:ASN:CG	5:R:54:VAL:HG22	2.17	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:821:PHE:CD1	1:H:821:PHE:N	2.67	0.63
1:H:924:ASP:O	1:H:925:VAL:CG1	2.46	0.63
1:I:943:THR:HB	1:I:944:PRO:CD	2.28	0.63
1:J:135:TRP:H	1:J:154:THR:HA	1.63	0.63
1:J:241:LYS:HE3	1:J:286:GLU:OE1	1.99	0.63
1:J:336:TYR:OH	1:J:565:LYS:HG2	1.99	0.63
1:J:767:LEU:HD11	1:J:771:LEU:HD13	1.81	0.63
1:K:724:MET:HE1	1:K:730:SER:N	2.00	0.63
1:K:799:GLN:HA	1:K:799:GLN:OE1	1.98	0.63
1:K:806:VAL:HA	1:K:858:SER:CB	2.28	0.63
1:L:172:LEU:HB2	1:L:282:ILE:HD11	1.80	0.63
1:L:409:ASN:ND2	1:L:464:LEU:HD12	2.13	0.63
1:L:537:HIS:C	1:L:539:ARG:H	1.99	0.63
2:N:210:LEU:HD23	2:N:225:THR:CB	2.29	0.63
4:M:145:LEU:HD11	4:M:163:ILE:HG23	1.80	0.63
5:P:20:ARG:O	5:P:22:PRO:HD3	1.98	0.63
6:U:13:TYR:OH	6:U:184:GLY:O	2.14	0.63
7:6:10:ALA:N	7:6:11:PRO:CD	2.61	0.63
1:A:391:TYR:CE1	1:A:396:ARG:CB	2.82	0.63
1:B:706:PRO:HB3	1:B:711:THR:O	1.98	0.63
1:B:890:GLN:CG	4:M:50:ALA:HB2	2.29	0.63
1:C:93:VAL:HG13	1:C:575:LEU:HD22	1.80	0.63
1:C:266:GLY:O	1:C:275:GLU:O	2.16	0.63
1:C:495:PRO:HG3	1:C:502:GLU:OE1	1.98	0.63
1:D:428:ILE:CG2	1:E:278:LYS:HZ1	2.11	0.63
1:E:77:THR:OG1	1:E:78:TYR:CD1	2.51	0.63
1:E:531:ASN:O	1:E:713:TYR:HE1	1.82	0.63
1:E:653:LEU:HB3	1:E:915:LEU:HD12	1.80	0.63
1:E:937:GLU:HB2	6:U:110:GLY:HA3	1.80	0.63
1:F:2:ALA:C	1:F:4:PRO:HD2	2.19	0.63
1:F:720:LYS:CG	1:F:744:GLU:OE1	2.46	0.63
1:G:79:LEU:HD22	1:G:341:ASN:ND2	2.13	0.63
1:G:296:HIS:HE1	1:G:317:MET:CE	2.12	0.63
1:G:421:SER:HB3	1:G:423:TYR:CZ	2.31	0.63
1:H:125:ALA:HA	1:I:828:PHE:CE2	2.34	0.63
1:H:557:PRO:HG3	5:S:57:SER:O	1.98	0.63
1:I:189:ALA:CA	1:I:241:LYS:HZ3	2.10	0.63
1:I:745:ILE:HG22	1:I:746:LYS:HG3	1.79	0.63
1:I:941:LEU:O	1:I:941:LEU:HD23	1.99	0.63
1:J:397:ILE:HD11	1:J:799:GLN:HG3	1.81	0.63
1:J:427:LYS:O	1:J:439:GLU:N	2.32	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:167:ILE:HG21	1:K:282:ILE:HB	1.81	0.63
1:K:222:MET:CE	1:K:312:LEU:HD12	2.29	0.63
1:K:432:ASN:OD1	1:K:432:ASN:C	2.37	0.63
1:K:911:ASP:O	1:K:912:GLU:CG	2.46	0.63
1:L:358:LEU:HB2	1:L:361:ARG:NH1	2.12	0.63
1:L:644:ASN:CB	1:L:925:VAL:HG12	2.29	0.63
4:M:298:LEU:HD13	6:U:57:GLU:HG3	1.80	0.63
7:2:17:PRO:HB2	7:2:22:TRP:CZ2	2.34	0.63
1:A:157:PHE:HZ	1:C:204:TRP:NE1	1.96	0.63
1:A:201:GLU:CD	1:A:201:GLU:H	2.01	0.63
1:A:240:ALA:HB3	1:A:288:VAL:HG23	1.81	0.63
1:A:367:TYR:CG	1:A:565:LYS:HD2	2.34	0.63
1:A:372:ASP:OD2	1:A:792:TYR:HD1	1.81	0.63
1:B:113:PHE:CZ	1:B:115:PRO:HD3	2.34	0.63
1:B:794:PHE:HA	1:B:869:VAL:HG21	1.81	0.63
1:C:192:THR:CG2	1:C:193:PHE:N	2.60	0.63
1:C:214:ARG:HH22	1:C:241:LYS:HE3	1.63	0.63
1:C:723:ILE:O	1:C:729:VAL:CG2	2.46	0.63
1:D:140:LYS:O	1:D:140:LYS:HG3	1.98	0.63
1:D:791:MET:HA	1:D:796:ARG:HG2	1.81	0.63
1:E:28:LEU:HD13	1:F:633:MET:HE1	1.81	0.63
1:E:140:LYS:HG2	1:E:140:LYS:O	1.99	0.63
1:G:233:THR:O	1:H:815:LYS:HG3	1.99	0.63
1:G:358:LEU:CD2	1:G:942:ARG:HH11	2.11	0.63
1:G:362:ASN:HD21	1:G:365:LEU:HB3	1.63	0.63
1:G:721:VAL:HG23	1:G:905:PHE:CE1	2.31	0.63
1:H:533:ASN:ND2	1:H:535:PHE:HB2	2.14	0.63
1:I:26:PRO:HA	1:I:29:VAL:HG12	1.79	0.63
1:I:33:ARG:HD3	7:6:12:ARG:HB3	1.81	0.63
1:I:641:GLN:HG2	1:I:641:GLN:O	1.99	0.63
1:I:724:MET:HG3	1:I:729:VAL:O	1.98	0.63
1:J:10:TRP:CA	1:J:15:ILE:HG22	2.28	0.63
1:J:121:TYR:N	1:J:121:TYR:CD1	2.66	0.63
1:K:170:GLN:HE21	1:K:185:LYS:HD2	1.63	0.63
1:K:190:ASP:O	1:K:192:THR:N	2.32	0.63
1:K:190:ASP:C	1:K:192:THR:N	2.51	0.63
1:K:315:GLN:NE2	1:K:836:MET:CG	2.62	0.63
1:K:644:ASN:HD22	1:K:644:ASN:H	1.47	0.63
1:K:659:LYS:O	1:K:659:LYS:CG	2.45	0.63
1:L:151:LYS:HG2	1:L:154:THR:CB	2.28	0.63
1:L:648:SER:OG	1:L:922:VAL:O	2.16	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:736:ARG:CZ	6:V:226:TYR:OH	2.46	0.63
1:L:891:ASN:HD22	1:L:891:ASN:C	2.00	0.63
2:N:138:ARG:NH2	2:N:154:LEU:HD21	2.08	0.63
5:P:9:GLU:HG2	5:P:13:PHE:CD2	2.34	0.63
5:S:96:ILE:HD12	5:S:96:ILE:N	2.13	0.63
7:1:17:PRO:HB2	7:1:18:PHE:CD1	2.34	0.63
1:A:202:GLU:O	1:A:206:GLU:HB3	1.99	0.63
1:A:335:TYR:CZ	1:A:586:ARG:HG2	2.33	0.63
1:A:683:LEU:HD13	1:A:707:TYR:HB2	1.81	0.63
1:A:929:HIS:HB3	1:A:937:GLU:HB2	1.80	0.63
1:B:229:PHE:CZ	1:C:849:PRO:CD	2.81	0.63
1:B:239:GLN:HG3	1:C:842:TYR:CE2	2.31	0.63
1:B:343:GLY:HA3	1:B:583:TRP:CE3	2.34	0.63
1:B:444:ASP:O	1:B:445:ALA:C	2.35	0.63
1:B:533:ASN:OD1	1:B:533:ASN:O	2.16	0.63
1:B:607:SER:HB2	1:B:608:VAL:HG22	1.80	0.63
1:B:636:ASN:O	1:B:637:ASP:HB2	1.99	0.63
1:D:200:GLY:O	1:D:206:GLU:CG	2.37	0.63
1:D:868:ARG:HH11	1:D:868:ARG:HB2	1.62	0.63
1:E:775:ASN:OD1	1:E:775:ASN:N	2.31	0.63
1:F:20:ALA:O	7:4:9:LEU:HD11	1.98	0.63
1:F:218:LYS:O	1:F:218:LYS:CG	2.47	0.63
1:F:276:GLU:HG2	1:F:276:GLU:O	1.98	0.63
1:F:933:ARG:O	1:F:933:ARG:HG2	1.97	0.63
1:G:828:PHE:CE1	1:I:125:ALA:HB2	2.34	0.63
1:H:178:GLU:OE2	1:H:178:GLU:O	2.17	0.63
1:H:568:ALA:HB1	1:H:926:VAL:HG21	1.80	0.63
1:H:649:ALA:HB1	1:H:920:PHE:O	1.99	0.63
1:I:653:LEU:CD2	1:I:917:TYR:CD2	2.80	0.63
1:J:239:GLN:O	1:J:241:LYS:HG2	1.99	0.63
1:J:294:ASP:OD1	1:J:294:ASP:N	2.32	0.63
1:J:682:ARG:NH1	1:J:910:MET:HE1	2.14	0.63
1:K:478:ALA:HB2	1:K:514:VAL:CG1	2.28	0.63
1:K:590:ASN:OD1	1:K:602:ARG:HG3	1.98	0.63
1:L:135:TRP:HH2	1:L:156:THR:HB	1.63	0.63
1:L:168:THR:HG23	1:L:171:GLY:N	2.07	0.63
1:L:190:ASP:C	1:L:192:THR:H	2.02	0.63
1:L:199:VAL:HG21	1:L:211:TYR:HE2	1.63	0.63
5:Q:16:TYR:CD2	5:R:18:THR:HG21	2.34	0.63
5:R:14:SER:CB	5:R:15:PRO:CD	2.77	0.63
6:U:19:LEU:HD23	6:U:72:ARG:CZ	2.29	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:U:62:THR:HG22	6:U:62:THR:O	1.99	0.63
6:U:186:LEU:HD23	6:U:186:LEU:N	2.13	0.63
1:A:74:GLU:HG3	1:A:81:LYS:HG2	1.80	0.62
1:A:204:TRP:HZ3	1:B:313:VAL:HG12	1.64	0.62
1:A:288:VAL:HG22	1:A:289:ASN:N	2.14	0.62
1:B:76:THR:HG22	1:B:77:THR:H	1.64	0.62
1:B:165:ILE:O	1:B:210:PHE:CD1	2.52	0.62
1:B:410:TYR:HA	1:B:461:GLU:CB	2.29	0.62
1:B:589:VAL:CB	1:B:607:SER:HB3	2.28	0.62
1:B:647:LEU:O	1:B:647:LEU:HG	1.99	0.62
1:B:682:ARG:CZ	1:B:910:MET:HG2	2.28	0.62
1:B:731:TRP:HB3	1:B:732:PRO:HD3	1.80	0.62
1:B:836:MET:O	1:B:837:ARG:CB	2.45	0.62
1:C:83:ARG:HA	1:C:582:GLU:HA	1.81	0.62
1:D:242:PHE:O	1:D:243:LYS:HG3	1.99	0.62
1:E:311:ASN:C	1:E:314:GLN:HE21	2.02	0.62
1:E:440:TRP:CH2	1:F:276:GLU:OE2	2.52	0.62
1:E:498:THR:HG22	1:E:498:THR:O	1.99	0.62
1:F:135:TRP:CZ2	1:F:156:THR:HG21	2.33	0.62
1:G:497:ASN:O	1:G:500:THR:HG22	1.97	0.62
1:G:893:LEU:HD23	1:G:894:TYR:CD1	2.32	0.62
1:H:413:PRO:CG	1:H:418:GLY:N	2.62	0.62
1:H:511:PRO:HD3	1:H:834:PRO:HD3	1.82	0.62
1:H:747:ARG:NH1	1:H:754:TYR:HB2	2.14	0.62
1:H:756:VAL:HG23	1:H:763:LYS:CG	2.27	0.62
1:I:154:THR:CG2	1:I:155:LYS:HE2	2.28	0.62
1:I:218:LYS:HB2	1:I:218:LYS:NZ	2.14	0.62
1:I:734:ASN:HD21	1:I:736:ARG:HH12	1.46	0.62
1:I:943:THR:CB	1:I:944:PRO:HD3	2.29	0.62
1:J:56:VAL:CG2	7:9:24:GLU:HB3	2.29	0.62
1:J:495:PRO:HG3	1:J:502:GLU:OE2	1.98	0.62
1:K:10:TRP:CZ2	1:L:674:ALA:HB2	2.33	0.62
1:K:405:ASP:OD2	1:K:405:ASP:C	2.27	0.62
1:K:537:HIS:CG	1:K:538:PRO:HD2	2.33	0.62
1:K:922:VAL:HG12	1:K:944:PRO:CD	2.28	0.62
1:L:667:ILE:HD12	1:L:901:LEU:HD21	1.81	0.62
5:S:71:ALA:O	5:S:74:ALA:HB3	1.99	0.62
7:9:9:LEU:O	7:9:11:PRO:CD	2.45	0.62
1:A:161:ALA:O	1:A:199:VAL:HB	1.99	0.62
1:A:197:PRO:CD	1:B:831:TYR:CD1	2.81	0.62
1:A:397:ILE:HD11	1:A:799:GLN:HG3	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:88:VAL:HG11	1:B:575:LEU:O	1.99	0.62
1:B:300:LYS:HD3	1:B:305:ASP:OD1	1.99	0.62
1:B:633:MET:O	1:B:639:HIS:CE1	2.52	0.62
1:B:682:ARG:NH1	1:B:910:MET:HB2	2.13	0.62
1:B:846:PHE:HD2	1:B:847:PRO:CD	2.12	0.62
1:D:396:ARG:HH11	1:D:396:ARG:HG2	1.63	0.62
1:D:665:ILE:HD12	1:D:666:SER:N	2.13	0.62
1:D:756:VAL:CB	1:F:561:GLN:HE22	2.12	0.62
1:D:929:HIS:N	1:D:937:GLU:O	2.32	0.62
1:E:494:LEU:HB3	1:E:495:PRO:HD2	1.81	0.62
1:E:706:PRO:HA	1:E:711:THR:HG23	1.80	0.62
1:F:174:LEU:HD12	1:F:191:LYS:NZ	2.14	0.62
1:G:78:TYR:CB	1:G:695:PHE:HE1	2.12	0.62
1:G:648:SER:HB3	1:G:924:ASP:OD1	1.98	0.62
1:G:731:TRP:CD1	1:G:732:PRO:HD3	2.34	0.62
1:G:763:LYS:NZ	1:I:616:TYR:CE1	2.67	0.62
1:G:917:TYR:HE2	1:G:919:LEU:HB2	1.64	0.62
1:H:842:TYR:CG	1:H:843:PRO:HD2	2.33	0.62
1:I:417:THR:HG22	1:I:457:VAL:HA	1.80	0.62
1:I:926:VAL:HG23	1:I:940:TYR:HA	1.80	0.62
1:J:4:PRO:HG2	6:U:58:GLN:OE1	1.98	0.62
1:J:103:ILE:HB	1:J:613:VAL:HG23	1.81	0.62
1:J:256:ILE:H	1:J:256:ILE:HD12	1.64	0.62
1:J:485:TYR:OH	1:J:528:PRO:HB3	1.99	0.62
1:J:672:TRP:O	1:J:892:MET:HB3	2.00	0.62
1:J:836:MET:SD	1:L:203:ASN:CA	2.85	0.62
1:L:749:VAL:O	1:L:749:VAL:CG1	2.47	0.62
2:N:228:ALA:HB3	2:N:459:PRO:HA	1.80	0.62
5:Q:4:THR:HG23	5:Q:13:PHE:CZ	2.34	0.62
5:Q:12:LEU:O	5:Q:12:LEU:HG	1.99	0.62
5:R:131:GLN:HA	5:R:134:LYS:HB2	1.80	0.62
1:A:159:VAL:HG21	1:B:841:PRO:HD2	1.82	0.62
1:B:139:GLU:CG	1:B:152:ASP:CB	2.77	0.62
1:B:162:THR:HG22	1:B:163:GLY:O	1.99	0.62
1:B:202:GLU:O	1:B:206:GLU:CD	2.37	0.62
1:B:813:ASP:O	1:B:813:ASP:OD2	2.18	0.62
1:C:198:GLN:CG	1:C:199:VAL:H	2.00	0.62
1:D:155:LYS:HE2	1:D:285:THR:CG2	2.27	0.62
1:D:169:ASN:CG	1:F:432:ASN:HB2	2.20	0.62
1:D:524:TRP:CZ3	1:D:802:SER:HA	2.34	0.62
1:E:47:ASN:CB	1:E:48:PRO:CD	2.78	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:56:VAL:CG1	1:F:57:THR:N	2.63	0.62
1:F:683:LEU:CD1	1:F:707:TYR:HB2	2.30	0.62
1:G:327:ARG:HG3	1:G:327:ARG:NH1	2.11	0.62
1:G:438:SER:OG	1:H:277:TYR:CB	2.43	0.62
1:G:754:TYR:HB3	1:G:762:THR:HG23	1.82	0.62
1:H:155:LYS:O	1:H:157:PHE:N	2.33	0.62
1:H:191:LYS:C	1:H:193:PHE:N	2.52	0.62
1:H:339:THR:O	1:J:740:PRO:HG2	1.99	0.62
1:H:450:ASN:HB3	1:I:153:VAL:HG12	1.80	0.62
1:H:831:TYR:CE2	1:H:832:LEU:CD1	2.83	0.62
1:I:260:TYR:CE2	1:I:282:ILE:HG21	2.32	0.62
1:I:641:GLN:HG3	1:I:643:PHE:HZ	1.64	0.62
1:J:126:PRO:HG2	1:J:129:ALA:HB2	1.80	0.62
1:J:333:LEU:HD23	1:J:562:VAL:HG21	1.80	0.62
1:J:623:ALA:HB3	1:J:626:THR:HG21	1.81	0.62
1:J:656:ILE:HG23	1:J:663:VAL:HB	1.80	0.62
1:K:177:ASP:CG	1:K:178:GLU:H	2.02	0.62
1:L:38:TYR:OH	7:9:24:GLU:CB	2.45	0.62
1:L:134:GLN:CG	1:L:154:THR:HG22	2.27	0.62
1:L:611:ASP:OD2	1:L:611:ASP:N	2.32	0.62
4:M:389:LEU:N	4:M:390:PRO:CD	2.62	0.62
6:U:43:ARG:C	6:U:45:ASN:H	2.01	0.62
1:A:41:LEU:N	1:A:41:LEU:CD2	2.56	0.62
1:A:427:LYS:O	1:A:428:ILE:HG23	1.99	0.62
1:A:736:ARG:NH1	1:C:621:PRO:CB	2.51	0.62
1:B:620:PHE:HE1	1:C:880:MET:HE2	1.62	0.62
1:B:721:VAL:HB	1:B:743:PHE:HB2	1.82	0.62
1:B:813:ASP:O	1:B:813:ASP:CG	2.35	0.62
1:B:822:GLN:CD	1:B:846:PHE:CE1	2.71	0.62
1:C:327:ARG:CZ	1:C:705:ILE:HG13	2.28	0.62
1:C:352:LEU:HD13	1:J:63:ARG:CG	2.26	0.62
1:C:724:MET:CE	1:C:729:VAL:CB	2.74	0.62
1:C:930:GLN:HA	1:C:935:VAL:O	1.99	0.62
1:E:837:ARG:NE	1:F:456:ASN:ND2	2.46	0.62
1:E:905:PHE:CZ	1:E:918:LEU:CD1	2.83	0.62
1:F:575:LEU:CD1	1:F:635:ARG:HD2	2.30	0.62
1:F:623:ALA:HB3	1:F:626:THR:HG22	1.81	0.62
1:F:656:ILE:CG2	1:F:663:VAL:CG2	2.77	0.62
1:F:720:LYS:HG3	1:F:744:GLU:OE1	1.99	0.62
1:G:749:VAL:O	1:G:750:ASP:OD1	2.18	0.62
1:H:105:GLY:CA	1:H:609:ARG:O	2.36	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:214:ARG:HH22	1:H:241:LYS:NZ	1.97	0.62
1:H:476:ASN:ND2	1:H:539:ARG:HH11	1.95	0.62
1:I:245:VAL:HG12	1:I:245:VAL:O	1.97	0.62
1:J:64:LEU:CD1	1:J:621:PRO:HG3	2.30	0.62
1:J:188:TYR:HB2	1:J:256:ILE:HG21	1.80	0.62
1:J:865:LEU:O	1:J:865:LEU:CD1	2.42	0.62
1:K:404:GLU:HG3	1:K:404:GLU:O	1.99	0.62
1:K:429:THR:CG2	1:K:430:ASN:HD21	2.02	0.62
1:K:584:ASN:H	1:K:584:ASN:ND2	1.94	0.62
5:Q:34:SER:O	5:Q:35:THR:C	2.35	0.62
5:Q:51:TYR:O	5:Q:54:VAL:HG22	1.99	0.62
1:A:247:GLU:O	1:A:249:GLU:N	2.32	0.62
1:A:649:ALA:HB3	1:A:919:LEU:HD11	1.81	0.62
1:A:651:ASN:HB3	1:A:919:LEU:CD1	2.30	0.62
1:A:731:TRP:HB2	1:E:951:THR:HG22	1.82	0.62
1:B:200:GLY:C	1:B:206:GLU:HG2	2.17	0.62
1:B:348:GLN:HB2	1:B:578:SER:O	1.99	0.62
1:C:188:TYR:CD1	1:C:256:ILE:HB	2.35	0.62
1:C:524:TRP:NE1	1:C:803:ARG:NH1	2.46	0.62
1:C:613:VAL:C	1:C:614:ASN:ND2	2.52	0.62
1:C:851:ILE:HD13	1:C:851:ILE:N	2.14	0.62
1:D:649:ALA:HB3	1:D:919:LEU:HD11	1.81	0.62
1:E:162:THR:CB	1:E:193:PHE:CD2	2.82	0.62
1:F:398:ILE:O	1:F:398:ILE:HG13	1.98	0.62
1:F:472:PHE:O	1:F:476:ASN:ND2	2.32	0.62
1:F:831:TYR:CB	1:F:838:GLN:HE22	1.94	0.62
1:G:13:MET:HE1	1:H:941:LEU:CB	2.28	0.62
1:G:292:THR:HB	1:G:295:THR:HG23	1.82	0.62
1:G:344:VAL:HG23	1:G:353:ASN:CB	2.28	0.62
1:G:796:ARG:HH11	1:G:796:ARG:HG3	1.64	0.62
1:H:131:ASN:ND2	1:H:225:CYS:HB2	2.14	0.62
1:H:162:THR:O	1:H:211:TYR:CD2	2.52	0.62
1:H:445:ALA:H	1:I:152:ASP:C	2.01	0.62
1:I:656:ILE:HG22	1:I:663:VAL:CG2	2.25	0.62
1:I:948:GLY:O	8:Z:5:UNK:O	2.18	0.62
1:J:66:LEU:CD2	1:J:619:PHE:HE1	2.13	0.62
1:J:74:GLU:O	1:J:74:GLU:HG3	1.99	0.62
1:J:278:LYS:CG	1:J:279:ALA:N	2.63	0.62
1:J:300:LYS:O	1:J:300:LYS:HG3	1.98	0.62
1:J:714:LEU:CD2	1:J:910:MET:SD	2.87	0.62
1:K:170:GLN:HE21	1:K:185:LYS:HE3	1.64	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:416:GLY:O	1:K:417:THR:HG22	2.00	0.62
1:K:720:LYS:HE2	1:K:742:GLU:OE2	1.98	0.62
1:L:66:LEU:HD12	1:L:619:PHE:HZ	1.54	0.62
1:L:324:ILE:O	1:L:324:ILE:CG2	2.43	0.62
1:L:495:PRO:HD3	1:L:502:GLU:OE1	2.00	0.62
1:L:818:THR:C	1:L:820:PRO:HD2	2.20	0.62
1:L:846:PHE:HB3	1:L:847:PRO:CD	2.29	0.62
2:N:267:MET:HE2	2:N:267:MET:CA	2.25	0.62
7:9:19:MET:O	7:9:20:GLY:O	2.17	0.62
1:A:57:THR:O	1:A:623:ALA:HB2	1.99	0.62
1:A:193:PHE:CE2	1:A:213:GLY:O	2.52	0.62
1:B:329:ASN:ND2	1:B:386:SER:CB	2.63	0.62
1:B:440:TRP:CZ3	1:B:446:ILE:CG2	2.82	0.62
1:B:760:ASN:ND2	1:B:862:LYS:O	2.32	0.62
1:B:846:PHE:HD2	1:B:847:PRO:HD3	1.64	0.62
1:C:72:ASP:HB2	1:J:73:ARG:HH21	1.58	0.62
1:C:75:ALA:CB	1:C:80:TYR:HD1	1.99	0.62
1:C:234:ASN:O	1:C:236:LYS:N	2.32	0.62
1:C:445:ALA:HA	1:C:449:GLN:HB2	1.80	0.62
1:E:263:VAL:O	1:E:265:GLY:N	2.31	0.62
1:E:353:ASN:C	1:E:353:ASN:OD1	2.37	0.62
1:E:532:VAL:CG1	1:E:532:VAL:O	2.47	0.62
1:E:747:ARG:NH2	1:E:754:TYR:HD1	1.92	0.62
1:G:13:MET:CE	1:H:925:VAL:O	2.48	0.62
1:G:166:ASN:O	1:G:173:LEU:HB3	1.99	0.62
1:H:135:TRP:CZ3	1:H:309:GLU:CB	2.78	0.62
1:I:31:PHE:CD2	1:I:32:ALA:N	2.66	0.62
1:I:526:LEU:C	1:I:528:PRO:HD2	2.20	0.62
1:I:630:LEU:HD23	1:I:630:LEU:C	2.18	0.62
1:I:943:THR:CB	1:I:944:PRO:CD	2.77	0.62
1:J:280:ASP:O	1:J:281:ILE:HG23	1.98	0.62
1:J:650:ALA:HA	1:J:942:ARG:HH21	1.64	0.62
1:J:724:MET:HE2	5:Q:20:ARG:NH1	2.14	0.62
1:J:740:PRO:HG3	1:L:63:ARG:HH12	1.65	0.62
1:K:603:VAL:CG1	1:K:604:ASP:OD2	2.47	0.62
1:L:234:ASN:O	1:L:236:LYS:N	2.32	0.62
2:N:450:ASN:ND2	2:N:453:LEU:HB2	2.14	0.62
2:N:468:VAL:HG12	2:N:468:VAL:O	1.99	0.62
4:M:141:LEU:CD2	4:M:170:VAL:HG21	2.22	0.62
6:V:43:ARG:HH11	6:V:43:ARG:HG3	1.65	0.62
1:A:25:SER:O	1:A:29:VAL:HG23	2.00	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:39:PHE:CZ	1:B:573:LEU:HD21	2.33	0.62
1:A:551:GLY:HA3	1:B:804:GLN:HE22	1.65	0.62
1:A:721:VAL:O	1:A:721:VAL:HG13	2.00	0.62
1:B:116:TYR:CD2	1:C:520:ILE:CB	2.79	0.62
1:B:517:TYR:C	1:B:517:TYR:CD1	2.72	0.62
1:B:747:ARG:HB2	1:B:762:THR:OG1	2.00	0.62
1:C:533:ASN:HD22	1:C:534:PRO:N	1.97	0.62
1:C:762:THR:HG23	1:C:765:TRP:CB	2.29	0.62
1:C:905:PHE:CE2	1:C:918:LEU:HD13	2.35	0.62
1:C:922:VAL:CG2	1:C:923:PHE:H	2.08	0.62
1:C:931:PRO:HD2	1:C:935:VAL:HG13	1.81	0.62
1:D:802:SER:HB3	1:D:862:LYS:HA	1.82	0.62
1:F:503:TYR:C	1:F:505:ASN:H	2.03	0.62
1:F:586:ARG:HG3	1:F:586:ARG:NH1	2.14	0.62
1:G:217:LYS:CE	1:G:257:ASP:OD2	2.43	0.62
1:G:310:ILE:HD12	1:G:310:ILE:N	2.15	0.62
1:G:405:ASP:HB3	1:G:465:GLN:HB2	1.82	0.62
1:G:427:LYS:HB2	1:G:441:GLU:OE1	2.00	0.62
1:G:662:ASN:ND2	1:G:663:VAL:N	2.47	0.62
1:H:135:TRP:CH2	1:H:309:GLU:HG2	2.33	0.62
1:H:405:ASP:HB3	1:H:465:GLN:HB3	1.81	0.62
1:H:445:ALA:HB3	1:H:449:GLN:OE1	2.00	0.62
1:I:59:ASP:OD1	1:I:59:ASP:N	2.33	0.62
1:I:107:LEU:HD11	1:I:593:LEU:CD2	2.29	0.62
1:I:297:VAL:HA	1:I:316:SER:HB3	1.81	0.62
1:I:713:TYR:CE1	1:I:714:LEU:HD13	2.34	0.62
1:J:309:GLU:HG3	1:L:205:GLN:HE22	1.64	0.62
1:J:661:THR:HG22	1:J:662:ASN:N	2.13	0.62
1:J:731:TRP:CD1	1:J:732:PRO:CD	2.76	0.62
1:J:863:LYS:O	1:J:863:LYS:HD3	1.99	0.62
1:K:115:PRO:O	1:K:323:TYR:CZ	2.52	0.62
1:K:831:TYR:HB2	1:K:838:GLN:HE21	1.63	0.62
1:K:937:GLU:HB2	6:U:35:SER:O	1.99	0.62
1:L:417:THR:HG22	1:L:418:GLY:H	1.61	0.62
5:P:19:THR:C	5:P:20:ARG:O	2.34	0.62
5:P:35:THR:CG2	5:P:36:VAL:O	2.39	0.62
5:P:114:GLN:O	5:P:118:LEU:HB2	2.00	0.62
7:4:6:PHE:O	7:4:6:PHE:CG	2.52	0.62
1:A:258:PHE:CE1	1:A:284:TYR:HE2	2.18	0.62
1:A:391:TYR:CD1	1:A:391:TYR:O	2.53	0.62
1:A:423:TYR:HE2	1:B:263:VAL:HG23	1.63	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:533:ASN:CG	1:A:713:TYR:CE2	2.72	0.62
1:A:667:ILE:HD11	1:A:920:PHE:CZ	2.35	0.62
1:B:204:TRP:HZ3	1:C:313:VAL:CA	2.09	0.62
1:B:508:VAL:HG21	1:B:833:ALA:CB	2.30	0.62
1:B:687:GLU:CG	1:B:701:TYR:CE2	2.82	0.62
1:B:713:TYR:HA	1:B:867:ASP:HB2	1.81	0.62
1:B:746:LYS:HG3	1:B:760:ASN:OD1	1.99	0.62
1:C:587:LYS:HD3	1:C:610:PHE:CD1	2.34	0.62
1:D:409:ASN:ND2	1:D:464:LEU:HB2	2.14	0.62
1:D:851:ILE:HD11	1:F:116:TYR:CE2	2.22	0.62
1:E:194:GLN:O	1:E:196:GLU:N	2.32	0.62
1:E:514:VAL:O	1:E:514:VAL:CG2	2.47	0.62
1:E:755:ASN:HA	1:E:761:MET:O	2.00	0.62
1:F:430:ASN:O	1:F:430:ASN:CG	2.37	0.62
1:G:13:MET:HE1	1:H:941:LEU:HB3	1.81	0.62
1:G:141:GLN:HG2	1:I:446:ILE:HD11	1.78	0.62
1:G:297:VAL:HA	1:G:316:SER:HB3	1.81	0.62
1:G:540:ASN:O	1:G:544:ARG:HG2	1.99	0.62
1:G:585:PHE:N	1:G:585:PHE:CD1	2.67	0.62
1:H:118:GLY:HA2	1:H:318:PRO:HB3	1.81	0.62
1:H:121:TYR:CD2	1:H:229:PHE:HB2	2.35	0.62
1:H:162:THR:CG2	1:H:163:GLY:H	2.13	0.62
1:H:367:TYR:CD2	1:H:565:LYS:HG3	2.35	0.62
1:H:485:TYR:HB3	1:H:513:LEU:HD21	1.81	0.62
1:H:819:LEU:HA	1:H:822:GLN:HE21	1.61	0.62
1:H:868:ARG:HG3	1:H:868:ARG:HH11	1.65	0.62
1:I:429:THR:HG22	1:I:430:ASN:N	2.14	0.62
1:I:684:LYS:HA	1:I:914:THR:CG2	2.26	0.62
1:J:192:THR:HG21	1:J:284:TYR:CD2	2.35	0.62
1:J:355:VAL:O	1:J:355:VAL:HG12	2.00	0.62
1:J:419:THR:HG23	1:J:451:GLN:HB2	1.82	0.62
1:J:476:ASN:O	1:J:480:TYR:HD2	1.83	0.62
1:K:103:ILE:HG21	1:K:610:PHE:CD2	2.35	0.62
1:K:134:GLN:HG2	1:K:155:LYS:N	2.14	0.62
1:K:869:VAL:HG22	1:K:870:MET:N	2.15	0.62
1:L:774:TYR:HB3	1:L:788:LYS:NZ	2.15	0.62
1:L:891:ASN:C	1:L:891:ASN:ND2	2.54	0.62
2:N:55:ARG:HH11	2:N:510:ALA:HB2	1.63	0.62
2:N:100:PHE:CE2	2:N:483:ILE:HD12	2.31	0.62
2:N:151:GLN:O	2:N:151:GLN:HG3	1.99	0.62
4:M:159:TYR:HD1	4:M:210:TRP:NE1	1.97	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:279:VAL:O	4:M:279:VAL:HG12	2.00	0.62
4:M:344:MET:O	4:M:348:ASN:HB2	1.99	0.62
1:A:187:ILE:O	1:A:190:ASP:OD1	2.16	0.62
1:A:455:GLY:O	1:A:456:ASN:C	2.39	0.62
1:A:508:VAL:HG21	1:A:834:PRO:HD2	1.81	0.62
1:A:573:LEU:H	1:A:641:GLN:HE21	1.47	0.62
1:A:716:HIS:ND1	1:A:716:HIS:C	2.54	0.62
1:B:641:GLN:HB2	1:B:928:VAL:HG21	1.82	0.62
1:C:448:ARG:CG	1:C:449:GLN:HE21	2.11	0.62
1:C:893:LEU:CD2	6:U:227:ASP:N	2.63	0.62
1:D:235:GLU:HG3	1:E:815:LYS:CB	2.25	0.62
1:E:77:THR:HB	5:P:76:ARG:HH21	1.48	0.62
1:E:267:SER:O	1:E:275:GLU:O	2.18	0.62
1:E:462:ILE:HG22	1:F:411:CYS:HA	1.80	0.62
1:E:713:TYR:HA	1:E:867:ASP:HB2	1.82	0.62
1:G:438:SER:O	1:G:440:TRP:CD1	2.53	0.62
1:G:825:ASN:OD1	1:I:124:LEU:HB2	1.99	0.62
1:H:49:THR:HG23	1:I:884:ALA:CB	2.27	0.62
1:H:672:TRP:CH2	1:H:945:PHE:CZ	2.87	0.62
1:H:924:ASP:C	1:H:924:ASP:OD2	2.38	0.62
1:I:527:ASP:N	1:I:528:PRO:CD	2.63	0.62
1:I:908:ASP:CB	1:I:909:PRO:CD	2.77	0.62
1:J:269:PRO:HB2	1:J:274:GLY:O	1.93	0.62
1:J:346:ALA:HB1	1:J:351:GLN:HA	1.82	0.62
1:J:436:GLU:CD	1:J:436:GLU:H	2.03	0.62
1:J:885:LEU:HD22	1:L:50:VAL:HB	1.80	0.62
1:K:73:ARG:NH2	1:K:612:SER:CB	2.62	0.62
1:K:209:ALA:C	1:K:210:PHE:CD1	2.73	0.62
1:K:368:GLN:OE1	1:K:368:GLN:HA	1.99	0.62
1:K:720:LYS:HE2	1:K:742:GLU:CD	2.20	0.62
1:K:748:SER:CB	1:K:760:ASN:HB3	2.29	0.62
1:K:922:VAL:CG1	1:K:944:PRO:HG2	2.30	0.62
1:L:154:THR:HG22	1:L:155:LYS:HD3	1.82	0.62
1:L:266:GLY:C	1:L:268:PRO:HD3	2.20	0.62
1:L:371:LEU:CD1	1:L:377:ARG:HE	2.13	0.62
4:M:194:LEU:HD23	6:U:197:TYR:HH	1.64	0.62
5:P:47:SER:HA	5:P:51:TYR:CD1	2.35	0.62
5:S:16:TYR:O	5:S:18:THR:N	2.31	0.62
1:B:57:THR:CG2	1:C:877:SER:HB3	2.29	0.62
1:B:410:TYR:HA	1:B:461:GLU:HB2	1.80	0.62
1:B:665:ILE:CD1	1:B:918:LEU:HD22	2.30	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:462:ILE:HG12	1:C:463:ASN:H	1.63	0.62
1:C:525:SER:OG	1:C:865:LEU:HD11	2.00	0.62
1:C:530:ASP:OD1	1:C:865:LEU:HD13	2.00	0.62
1:C:673:ALA:HB2	6:U:16:GLN:OE1	1.99	0.62
1:D:684:LYS:HB3	1:D:687:GLU:HG2	1.82	0.62
1:E:23:TYR:C	1:E:23:TYR:CD1	2.74	0.62
1:E:72:ASP:OD1	1:E:72:ASP:C	2.37	0.62
1:E:155:LYS:O	1:E:156:THR:C	2.38	0.62
1:F:267:SER:OG	1:F:277:TYR:OH	2.16	0.62
1:F:543:LEU:C	1:F:543:LEU:HD13	2.20	0.62
1:F:661:THR:CG2	1:F:909:PRO:HD3	2.29	0.62
1:F:791:MET:HG2	1:F:792:TYR:HD1	1.65	0.62
1:G:18:GLN:O	1:G:48:PRO:HG2	2.00	0.62
1:G:192:THR:OG1	1:G:193:PHE:N	2.29	0.62
1:G:460:MET:HG3	1:I:460:MET:SD	2.39	0.62
1:G:747:ARG:NH2	1:G:754:TYR:CD1	2.68	0.62
1:H:214:ARG:NH2	1:H:286:GLU:CD	2.54	0.62
1:H:443:ASP:O	1:H:444:ASP:CG	2.38	0.62
1:H:643:PHE:CD2	1:H:643:PHE:N	2.68	0.62
1:I:327:ARG:HH11	1:I:594:GLN:HB3	1.65	0.62
1:K:121:TYR:HB3	1:L:844:ALA:HB3	1.80	0.62
1:L:66:LEU:HD11	1:L:92:ARG:NH2	2.14	0.62
1:L:633:MET:O	1:L:636:ASN:HB2	1.99	0.62
1:L:718:PHE:CB	1:L:745:ILE:HD13	2.27	0.62
1:L:792:TYR:HE1	1:L:868:ARG:HD3	1.65	0.62
2:N:138:ARG:HE	2:N:154:LEU:HD23	1.64	0.62
5:P:33:GLY:HA3	5:P:44:ALA:C	2.21	0.62
7:7:10:ALA:N	7:7:11:PRO:CD	2.62	0.62
1:A:158:GLY:N	1:C:452:ILE:HA	2.14	0.61
1:A:412:PHE:HB3	1:A:413:PRO:HD2	1.82	0.61
1:B:20:ALA:H	1:B:47:ASN:HB3	1.64	0.61
1:B:26:PRO:CB	6:U:176:SER:HB3	2.28	0.61
1:B:42:GLY:C	7:1:9:LEU:HB3	2.19	0.61
1:B:517:TYR:HD1	1:B:517:TYR:O	1.83	0.61
1:B:756:VAL:HG23	1:B:763:LYS:CG	2.21	0.61
1:B:942:ARG:O	1:B:945:PHE:O	2.17	0.61
1:C:7:MET:O	1:C:9:GLN:N	2.32	0.61
1:C:424:GLN:CB	1:C:445:ALA:O	2.48	0.61
1:C:670:ARG:O	1:C:898:ALA:HA	2.00	0.61
1:D:244:PRO:CD	1:D:254:LEU:O	2.44	0.61
1:E:172:LEU:CD2	1:E:193:PHE:HE2	2.08	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:239:GLN:HG3	1:E:240:ALA:N	2.13	0.61
1:E:557:PRO:HD2	1:F:860:THR:HG21	1.81	0.61
1:F:99:THR:O	1:F:100:TYR:HB3	2.00	0.61
1:F:190:ASP:OD1	1:F:190:ASP:C	2.38	0.61
1:F:405:ASP:O	1:F:405:ASP:CG	2.38	0.61
1:F:491:ASN:ND2	1:F:491:ASN:H	1.96	0.61
1:F:800:PRO:C	1:F:801:MET:HG3	2.21	0.61
1:G:102:ASP:N	1:G:614:ASN:O	2.33	0.61
1:G:155:LYS:CG	1:G:261:PHE:CZ	2.81	0.61
1:G:241:LYS:CB	1:G:254:LEU:HD22	2.29	0.61
1:G:298:VAL:HG11	1:G:835:THR:HG22	1.81	0.61
1:G:333:LEU:HD13	1:G:592:ILE:CG2	2.29	0.61
1:G:424:GLN:O	1:G:424:GLN:HG3	2.00	0.61
1:G:755:ASN:O	1:G:763:LYS:HG2	2.00	0.61
1:H:116:TYR:HB2	1:I:402:GLY:H	1.65	0.61
1:H:323:TYR:C	1:H:324:ILE:HG13	2.19	0.61
1:H:498:THR:HG23	1:H:503:TYR:CE2	2.35	0.61
1:I:33:ARG:HH11	7:6:12:ARG:HB3	1.65	0.61
1:J:319:ASN:C	1:J:319:ASN:ND2	2.52	0.61
1:J:757:ALA:O	1:J:758:GLN:CB	2.45	0.61
1:J:774:TYR:CA	1:J:788:LYS:HE2	2.30	0.61
1:J:787:TYR:CD1	1:J:787:TYR:C	2.73	0.61
1:K:248:GLY:C	5:S:134:LYS:NZ	2.53	0.61
1:K:267:SER:HB2	1:K:268:PRO:HD2	1.81	0.61
1:K:291:GLU:O	1:K:293:PRO:HD2	2.00	0.61
1:K:750:ASP:OD2	1:K:750:ASP:C	2.33	0.61
1:K:851:ILE:O	1:K:855:ALA:HB2	2.00	0.61
1:L:15:ILE:HG12	1:L:46:ARG:NH2	2.15	0.61
1:L:83:ARG:HG3	1:L:582:GLU:CG	2.30	0.61
2:N:343:ILE:HG12	2:N:350:LEU:HD12	1.81	0.61
4:M:6:PRO:HG2	4:M:11:ARG:HH22	1.64	0.61
4:M:252:LEU:O	4:M:256:LEU:HG	2.00	0.61
6:V:19:LEU:CD2	6:V:72:ARG:CD	2.66	0.61
1:A:70:PRO:HA	1:A:84:PHE:HD2	1.64	0.61
1:A:391:TYR:HE1	1:A:396:ARG:CB	2.13	0.61
1:B:154:THR:HG1	1:B:155:LYS:HG2	1.60	0.61
1:B:155:LYS:CD	1:B:261:PHE:HE1	2.06	0.61
1:B:480:TYR:CZ	1:B:538:PRO:HD3	2.34	0.61
1:B:752:GLU:C	1:B:754:TYR:CD1	2.74	0.61
1:E:458:TYR:O	1:E:458:TYR:CG	2.52	0.61
1:F:478:ALA:C	1:F:480:TYR:N	2.54	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:199:VAL:HG21	1:G:206:GLU:HB2	1.81	0.61
1:G:413:PRO:C	1:G:415:ASN:O	2.39	0.61
1:G:564:GLN:HG3	1:G:581:TYR:OH	1.99	0.61
1:G:759:CYS:HG	1:G:864:PHE:HB3	1.64	0.61
1:G:821:PHE:HD2	1:I:194:GLN:NE2	1.97	0.61
1:G:851:ILE:HD11	1:I:116:TYR:CE2	2.35	0.61
1:G:928:VAL:HG13	1:G:936:ILE:HG22	1.81	0.61
1:H:153:VAL:HG12	1:H:156:THR:HG23	1.81	0.61
1:H:167:ILE:CD1	1:H:282:ILE:HG22	2.30	0.61
1:H:173:LEU:HB2	1:H:185:LYS:NZ	2.14	0.61
1:H:428:ILE:HD11	1:I:260:TYR:CE1	2.35	0.61
1:H:462:ILE:HG12	1:H:463:ASN:N	2.15	0.61
1:I:193:PHE:O	1:I:194:GLN:C	2.38	0.61
1:I:355:VAL:O	1:I:355:VAL:HG13	2.00	0.61
1:J:66:LEU:CD2	1:J:619:PHE:CE1	2.83	0.61
1:J:201:GLU:HB2	1:K:299:TYR:CZ	2.34	0.61
1:J:495:PRO:CG	1:J:500:THR:HG21	2.28	0.61
1:J:779:GLN:HE21	1:J:779:GLN:HA	1.64	0.61
1:J:804:GLN:HB3	1:J:850:LEU:CD2	2.25	0.61
1:J:831:TYR:HD1	1:L:196:GLU:HB2	1.64	0.61
1:K:174:LEU:HD12	1:K:191:LYS:CE	2.31	0.61
1:K:489:PRO:HG2	1:K:492:VAL:CG2	2.30	0.61
1:K:514:VAL:O	1:K:514:VAL:CG1	2.47	0.61
1:K:650:ALA:HB3	1:K:920:PHE:HB2	1.81	0.61
1:K:755:ASN:HA	1:K:761:MET:O	2.00	0.61
1:L:94:LEU:HG	1:L:95:ASP:O	1.99	0.61
1:L:157:PHE:HE1	1:L:312:LEU:HD23	1.65	0.61
1:L:298:VAL:HG12	1:L:317:MET:H	1.64	0.61
2:N:136:VAL:HG13	2:N:137:SER:N	2.14	0.61
2:N:224:TYR:CE1	2:N:279:LEU:HD21	2.35	0.61
1:A:242:PHE:HE1	1:A:288:VAL:C	2.04	0.61
1:A:344:VAL:O	1:A:344:VAL:HG13	2.00	0.61
1:A:533:ASN:HB2	1:A:713:TYR:CZ	2.35	0.61
1:A:828:PHE:HE1	1:A:841:PRO:HB3	1.63	0.61
1:B:69:VAL:HG22	1:B:70:PRO:CD	2.29	0.61
1:C:47:ASN:OD1	7:2:7:ALA:HB1	2.00	0.61
1:C:445:ALA:HB1	1:C:449:GLN:H	1.65	0.61
1:D:486:LYS:HG2	1:D:509:VAL:HG22	1.82	0.61
1:E:121:TYR:HE2	1:F:847:PRO:O	1.83	0.61
1:E:203:ASN:OD1	1:E:204:TRP:CD2	2.54	0.61
1:F:188:TYR:HA	1:F:192:THR:CB	2.28	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:370:LEU:HD21	1:F:570:LYS:NZ	2.11	0.61
1:F:494:LEU:HD22	1:F:503:TYR:HA	1.81	0.61
1:G:367:TYR:HD1	1:G:570:LYS:NZ	1.98	0.61
1:H:442:LYS:HE2	1:I:150:GLU:OE2	2.00	0.61
1:H:531:ASN:HB2	1:H:714:LEU:HD21	1.82	0.61
1:I:189:ALA:HB1	1:I:241:LYS:NZ	2.14	0.61
1:J:756:VAL:HG12	1:J:763:LYS:CA	2.29	0.61
1:K:38:TYR:CE1	1:L:56:VAL:HG12	2.36	0.61
1:K:75:ALA:CB	1:K:80:TYR:HD1	2.12	0.61
1:K:134:GLN:CD	1:K:154:THR:CG2	2.69	0.61
1:K:562:VAL:O	1:K:562:VAL:HG23	2.00	0.61
1:K:638:THR:HG23	1:K:639:HIS:N	2.14	0.61
1:K:662:ASN:HB2	1:K:906:GLU:HB2	1.82	0.61
1:L:96:MET:HE3	1:L:99:THR:HG21	1.82	0.61
1:L:478:ALA:HB2	1:L:514:VAL:CG1	2.29	0.61
1:L:826:SER:O	1:L:839:GLY:CA	2.43	0.61
2:N:230:HIS:CE1	2:N:374:THR:O	2.52	0.61
4:M:40:ASN:ND2	4:M:43:SER:HB3	2.16	0.61
1:A:158:GLY:CA	1:C:452:ILE:CG2	2.53	0.61
1:A:345:LEU:HD13	1:A:581:TYR:CD1	2.35	0.61
1:B:115:PRO:O	1:B:323:TYR:CZ	2.53	0.61
1:B:161:ALA:CB	1:B:198:GLN:HB3	2.30	0.61
1:B:749:VAL:O	1:B:749:VAL:CG1	2.49	0.61
1:C:109:ARG:HG2	1:C:324:ILE:HB	1.82	0.61
1:C:190:ASP:CG	1:C:191:LYS:N	2.54	0.61
1:E:260:TYR:CD1	1:E:260:TYR:N	2.69	0.61
1:E:275:GLU:CB	1:E:276:GLU:CD	2.68	0.61
1:E:344:VAL:HB	1:E:353:ASN:HD22	1.64	0.61
1:E:745:ILE:HG12	1:E:765:TRP:CD2	2.33	0.61
1:E:922:VAL:HG12	1:E:944:PRO:CD	2.31	0.61
1:E:922:VAL:HG23	1:E:942:ARG:HG3	1.82	0.61
1:F:109:ARG:O	1:F:110:GLY:O	2.19	0.61
1:F:652:MET:HE3	5:R:20:ARG:CD	2.30	0.61
1:F:785:GLU:HG2	1:F:788:LYS:H	1.65	0.61
1:G:34:ALA:O	1:G:36:ASP:N	2.33	0.61
1:G:359:GLN:C	1:G:359:GLN:HE21	2.03	0.61
1:H:79:LEU:HD23	1:H:584:ASN:ND2	2.15	0.61
1:H:388:VAL:O	1:H:388:VAL:HG13	1.99	0.61
1:I:760:ASN:OD1	1:I:760:ASN:N	2.26	0.61
1:J:103:ILE:CD1	1:J:610:PHE:HD2	2.03	0.61
1:J:196:GLU:OE2	1:K:823:HIS:CA	2.48	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:198:GLN:CD	1:K:840:GLN:HB3	2.19	0.61
1:J:411:CYS:HB2	1:L:461:GLU:O	1.99	0.61
1:J:460:MET:HG3	1:L:460:MET:SD	2.39	0.61
1:J:831:TYR:CD2	1:J:832:LEU:HG	2.35	0.61
1:J:918:LEU:HD23	1:J:918:LEU:C	2.21	0.61
1:K:103:ILE:CG2	1:K:610:PHE:HD2	2.13	0.61
1:K:222:MET:SD	1:K:307:SER:OG	2.58	0.61
1:K:626:THR:HG23	1:K:627:ALA:H	1.65	0.61
1:L:196:GLU:H	1:L:197:PRO:HD2	1.66	0.61
2:N:44:TYR:CZ	2:N:83:VAL:CG2	2.83	0.61
3:O:18:GLY:C	3:O:19:TYR:CD1	2.72	0.61
6:V:43:ARG:O	6:V:45:ASN:N	2.33	0.61
1:A:178:GLU:O	1:A:178:GLU:CG	2.46	0.61
1:A:233:THR:OG1	1:A:240:ALA:HA	2.00	0.61
1:A:235:GLU:HG3	1:B:815:LYS:HD2	1.82	0.61
1:B:57:THR:HG21	1:C:877:SER:HB2	1.81	0.61
1:B:415:ASN:ND2	1:B:418:GLY:HA2	2.11	0.61
1:C:162:THR:HG22	1:C:162:THR:O	1.99	0.61
1:C:905:PHE:HE2	1:C:918:LEU:HD22	1.66	0.61
1:C:917:TYR:CG	1:C:917:TYR:O	2.53	0.61
1:D:432:ASN:ND2	1:E:169:ASN:ND2	2.49	0.61
1:D:463:ASN:ND2	1:D:466:ALA:HB3	2.15	0.61
1:D:468:LEU:CD2	1:E:465:GLN:HE22	2.14	0.61
1:D:720:LYS:HD2	1:D:742:GLU:OE2	1.99	0.61
1:E:603:VAL:HG22	1:E:603:VAL:O	2.01	0.61
1:E:608:VAL:CG2	1:E:610:PHE:CE1	2.82	0.61
1:E:813:ASP:O	1:E:813:ASP:CG	2.35	0.61
1:E:922:VAL:HB	1:E:944:PRO:CD	2.23	0.61
1:F:87:ALA:HA	1:F:578:SER:HA	1.82	0.61
1:G:43:ASN:HA	7:7:8:SER:HB3	1.83	0.61
1:G:151:LYS:HB2	1:G:154:THR:HG21	1.81	0.61
1:G:336:TYR:O	1:G:337:ASN:OD1	2.19	0.61
1:G:878:ASN:HD22	1:G:878:ASN:N	1.76	0.61
1:G:935:VAL:O	1:G:935:VAL:HG13	1.98	0.61
1:H:198:GLN:NE2	1:I:838:GLN:CB	2.44	0.61
1:H:670:ARG:HH21	1:H:945:PHE:HA	1.61	0.61
1:H:923:PHE:H	1:H:943:THR:HG23	1.65	0.61
1:I:575:LEU:HD21	1:I:634:LEU:HD12	1.82	0.61
1:J:408:PRO:HB2	1:J:410:TYR:CZ	2.35	0.61
1:J:444:ASP:HA	1:K:152:ASP:HA	1.83	0.61
1:J:658:ALA:O	1:J:659:LYS:HB2	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:663:VAL:CG1	1:J:905:PHE:O	2.48	0.61
1:K:155:LYS:HZ1	1:K:283:LEU:HB3	1.61	0.61
1:K:676:ARG:O	1:K:875:PHE:CA	2.46	0.61
1:K:807:ASP:HB3	1:K:858:SER:HA	1.82	0.61
1:L:298:VAL:CG1	1:L:316:SER:HA	2.31	0.61
1:L:643:PHE:CD1	1:L:643:PHE:N	2.68	0.61
1:L:647:LEU:HD11	1:L:919:LEU:HD11	1.82	0.61
2:N:210:LEU:HD23	2:N:225:THR:HB	1.81	0.61
4:M:229:ASN:HB2	6:U:4:GLU:HG2	1.80	0.61
4:M:246:VAL:HG12	4:M:249:ASN:N	2.14	0.61
1:A:756:VAL:HG23	1:A:763:LYS:CA	2.31	0.61
1:B:13:MET:HB3	1:C:925:VAL:CG2	2.30	0.61
1:B:68:PHE:CE2	1:B:86:LEU:HA	2.35	0.61
1:B:162:THR:HG22	1:B:163:GLY:C	2.21	0.61
1:B:242:PHE:CZ	1:B:287:ASN:C	2.74	0.61
1:B:377:ARG:O	1:B:388:VAL:CG2	2.49	0.61
1:B:424:GLN:HA	1:B:449:GLN:HG2	1.81	0.61
1:C:396:ARG:HA	1:C:396:ARG:HE	1.66	0.61
1:D:479:LEU:HD11	1:E:406:GLU:OE2	2.00	0.61
1:D:523:ARG:HG2	1:F:548:MET:O	2.01	0.61
1:D:573:LEU:HB2	1:D:641:GLN:NE2	2.16	0.61
1:D:715:ASN:O	1:D:715:ASN:OD1	2.18	0.61
1:E:269:PRO:HG2	1:E:273:SER:HB3	1.82	0.61
1:E:445:ALA:HB3	1:E:448:ARG:O	2.00	0.61
1:E:492:VAL:O	1:E:492:VAL:CG2	2.48	0.61
1:E:790:ARG:HH11	1:E:790:ARG:CB	2.06	0.61
1:E:943:THR:HB	1:E:944:PRO:HD3	1.81	0.61
1:F:640:ASP:OD1	1:F:640:ASP:N	2.17	0.61
1:F:846:PHE:HB3	1:F:847:PRO:HD3	1.82	0.61
1:G:840:GLN:HG3	1:I:198:GLN:OE1	2.01	0.61
1:H:108:ASP:CB	1:H:607:SER:CB	2.77	0.61
1:H:526:LEU:C	1:H:528:PRO:HD2	2.20	0.61
1:I:94:LEU:CD1	1:I:617:ALA:HB1	2.30	0.61
1:I:339:THR:O	1:I:342:MET:HE3	2.00	0.61
1:J:432:ASN:O	1:J:437:GLU:HG3	2.00	0.61
1:K:195:PRO:CB	1:L:840:GLN:NE2	2.48	0.61
1:K:233:THR:O	1:L:815:LYS:HE3	1.99	0.61
1:K:330:PHE:CZ	1:K:560:ILE:HB	2.36	0.61
1:K:333:LEU:HD13	1:K:562:VAL:HG11	1.80	0.61
1:K:460:MET:HE1	1:L:460:MET:HB3	1.83	0.61
1:L:176:THR:HG22	1:L:177:ASP:N	2.14	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:205:GLN:HG2	1:L:205:GLN:O	1.99	0.61
1:L:269:PRO:HA	1:L:274:GLY:O	1.99	0.61
5:Q:44:ALA:CB	5:Q:51:TYR:OH	2.47	0.61
7:5:16:ARG:HH11	7:5:21:THR:HG23	1.62	0.61
1:A:485:TYR:CE2	1:A:528:PRO:HB3	2.36	0.61
1:A:534:PRO:CD	1:A:713:TYR:CG	2.82	0.61
1:A:543:LEU:O	1:A:543:LEU:HD12	2.00	0.61
1:B:135:TRP:O	1:B:153:VAL:CG2	2.48	0.61
1:B:163:GLY:HA2	1:B:208:GLU:OE1	2.00	0.61
1:B:197:PRO:N	1:C:831:TYR:CD1	2.68	0.61
1:B:827:GLY:HA2	1:B:839:GLY:C	2.20	0.61
1:C:445:ALA:CB	1:C:449:GLN:HB2	2.31	0.61
1:C:670:ARG:NH1	1:C:670:ARG:HB2	2.15	0.61
1:C:805:VAL:O	1:C:858:SER:HB2	2.00	0.61
1:D:395:VAL:CG2	1:D:476:ASN:HB3	2.30	0.61
1:D:416:GLY:O	1:D:457:VAL:HG11	1.96	0.61
1:E:6:MET:HE3	1:E:7:MET:CA	2.30	0.61
1:E:93:VAL:HG22	1:E:573:LEU:CD2	2.30	0.61
1:E:531:ASN:O	1:E:713:TYR:CE1	2.53	0.61
1:E:937:GLU:O	1:E:937:GLU:HG3	1.99	0.61
1:F:135:TRP:HZ2	1:F:156:THR:CG2	2.13	0.61
1:G:50:VAL:HG13	1:H:885:LEU:HD23	1.83	0.61
1:G:167:ILE:HG13	1:G:282:ILE:CG2	2.22	0.61
1:G:348:GLN:HB3	1:G:578:SER:O	2.01	0.61
1:I:222:MET:CG	1:I:307:SER:CB	2.78	0.61
1:I:263:VAL:HG13	1:I:264:PRO:HD2	1.81	0.61
1:I:495:PRO:HG3	1:I:502:GLU:CD	2.21	0.61
1:J:250:GLN:O	1:J:252:LYS:N	2.26	0.61
1:J:456:ASN:HD21	1:K:199:VAL:CB	2.11	0.61
1:J:572:LEU:CD2	1:J:643:PHE:CZ	2.79	0.61
1:J:745:ILE:O	1:J:761:MET:CG	2.49	0.61
1:K:293:PRO:O	1:K:294:ASP:OD1	2.18	0.61
1:K:773:HIS:CD2	1:K:794:PHE:H	2.18	0.61
2:N:123:GLU:HB2	2:N:165:GLU:OE1	2.00	0.61
5:S:16:TYR:C	5:S:18:THR:N	2.54	0.61
7:3:6:PHE:O	7:3:7:ALA:CB	2.44	0.61
1:A:281:ILE:HD13	1:C:423:TYR:HE1	1.61	0.61
1:B:170:GLN:CB	1:B:185:LYS:HD2	2.30	0.61
1:C:364:GLU:CG	1:C:708:LEU:CD1	2.77	0.61
1:C:513:LEU:HG	1:C:514:VAL:HG12	1.83	0.61
1:D:549:LEU:HG	1:E:758:GLN:OE1	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:384:TRP:HA	1:E:384:TRP:CE3	2.35	0.61
1:F:320:ARG:NH1	1:F:597:LEU:CD1	2.61	0.61
1:F:800:PRO:O	1:F:801:MET:HG2	2.00	0.61
1:G:244:PRO:O	1:G:245:VAL:C	2.38	0.61
1:H:419:THR:O	1:H:419:THR:CG2	2.49	0.61
1:H:444:ASP:CA	1:H:449:GLN:HE22	2.13	0.61
1:H:602:ARG:O	5:Q:35:THR:HG21	2.00	0.61
1:I:831:TYR:CE1	1:I:832:LEU:HD11	2.35	0.61
1:J:394:ASP:O	1:J:396:ARG:N	2.34	0.61
1:J:816:ALA:O	1:L:235:GLU:CB	2.43	0.61
1:J:844:ALA:HB3	1:L:121:TYR:HB3	1.83	0.61
1:J:915:LEU:HD21	5:P:21:LEU:HD22	1.82	0.61
1:K:35:THR:HG22	7:8:24:GLU:CD	2.21	0.61
1:K:871:TRP:HA	1:K:871:TRP:CE3	2.36	0.61
1:K:929:HIS:CB	6:U:40:MET:CE	2.79	0.61
1:L:247:GLU:CD	1:L:248:GLY:H	2.03	0.61
1:L:258:PHE:HE2	1:L:284:TYR:HE2	1.35	0.61
7:6:19:MET:HE2	7:6:19:MET:HA	1.81	0.61
1:A:846:PHE:O	1:A:848:TYR:N	2.34	0.61
1:B:409:ASN:HD22	1:B:464:LEU:CB	2.13	0.61
1:B:415:ASN:ND2	1:B:418:GLY:H	1.98	0.61
1:C:880:MET:HG2	1:C:882:MET:HE2	1.83	0.61
1:E:172:LEU:HD21	1:E:193:PHE:CE2	2.34	0.61
1:E:234:ASN:ND2	1:E:236:LYS:HB3	2.15	0.61
1:E:295:THR:CG2	1:E:318:PRO:HA	2.28	0.61
1:E:319:ASN:HB3	1:E:505:ASN:HD21	1.64	0.61
1:E:341:ASN:O	1:E:341:ASN:CG	2.37	0.61
1:E:454:LYS:O	1:F:161:ALA:CB	2.48	0.61
1:E:720:LYS:HG3	1:E:742:GLU:OE1	2.01	0.61
1:F:151:LYS:O	1:F:152:ASP:O	2.19	0.61
1:F:683:LEU:HD23	1:F:683:LEU:N	2.08	0.61
1:G:151:LYS:O	1:G:154:THR:HG22	2.00	0.61
1:G:417:THR:HG22	1:G:417:THR:O	2.00	0.61
1:G:417:THR:HG21	1:G:453:CYS:HB2	1.82	0.61
1:G:421:SER:HB2	1:G:423:TYR:CE1	2.31	0.61
1:G:662:ASN:HD22	1:G:663:VAL:N	1.98	0.61
1:H:21:SER:N	7:5:9:LEU:CD1	2.63	0.61
1:H:110:GLY:HA3	1:H:605:GLY:HA3	1.83	0.61
1:H:951:THR:HG22	1:J:892:MET:SD	2.40	0.61
1:I:154:THR:HG21	1:I:155:LYS:HE2	1.82	0.61
1:J:310:ILE:O	1:J:313:VAL:HG22	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:725:PHE:HE1	1:J:731:TRP:HB3	1.66	0.61
1:K:114:LYS:HD2	1:K:294:ASP:HB2	1.81	0.61
1:K:829:THR:HG23	1:K:830:GLY:N	2.15	0.61
1:L:78:TYR:HB3	5:Q:76:ARG:NH2	2.16	0.61
1:L:132:PRO:HA	1:L:157:PHE:O	2.00	0.61
1:L:681:THR:HG21	1:L:712:PHE:HB3	1.82	0.61
4:M:298:LEU:HD11	6:U:57:GLU:OE2	1.98	0.61
5:P:27:VAL:O	5:P:28:ARG:HG3	2.00	0.61
1:B:61:SER:HB3	1:C:734:ASN:C	2.22	0.61
1:B:219:ASP:OD1	1:B:220:THR:N	2.34	0.61
1:B:641:GLN:HB2	1:B:928:VAL:CG2	2.31	0.61
1:B:799:GLN:HB2	1:B:865:LEU:O	1.99	0.61
1:C:653:LEU:HB3	1:C:915:LEU:HD22	1.81	0.61
1:D:201:GLU:O	1:E:836:MET:HE2	1.90	0.61
1:D:328:ASP:OD2	1:D:388:VAL:HA	2.01	0.61
1:D:851:ILE:CD1	1:F:116:TYR:HE2	2.07	0.61
1:E:234:ASN:O	1:E:236:LYS:N	2.33	0.61
1:E:397:ILE:HD11	1:E:799:GLN:HG3	1.82	0.61
1:E:511:PRO:HD2	1:E:832:LEU:O	2.01	0.61
1:F:134:GLN:HG2	1:F:155:LYS:CA	2.30	0.61
1:F:666:SER:OG	1:F:667:ILE:N	2.34	0.61
1:F:691:LEU:CD2	1:F:691:LEU:N	2.28	0.61
1:G:729:VAL:HG22	1:G:730:SER:H	1.65	0.61
1:H:902:ASP:OD1	1:H:902:ASP:N	2.33	0.61
1:I:697:PRO:HG2	1:I:698:TYR:CE2	2.36	0.61
1:I:829:THR:CG2	1:I:830:GLY:H	2.13	0.61
1:K:101:PHE:CE2	1:K:581:TYR:CE2	2.84	0.61
1:K:134:GLN:CD	1:K:154:THR:HG22	2.21	0.61
1:K:239:GLN:HG3	1:K:240:ALA:H	1.66	0.61
1:K:489:PRO:HG2	1:K:492:VAL:HG21	1.83	0.61
1:K:675:PHE:HA	1:K:944:PRO:HG3	1.83	0.61
1:K:731:TRP:C	1:K:733:GLY:H	2.04	0.61
1:K:739:THR:OG1	1:K:740:PRO:CD	2.45	0.61
1:K:756:VAL:HG21	1:K:766:PHE:CG	2.35	0.61
1:L:77:THR:OG1	5:S:76:ARG:HG3	2.01	0.61
1:L:109:ARG:HH21	1:L:550:LEU:HB3	1.66	0.61
1:L:222:MET:HE1	1:L:311:ASN:HB3	1.82	0.61
1:L:477:VAL:HG12	1:L:478:ALA:H	1.61	0.61
2:N:237:PRO:HD3	2:N:350:LEU:HB3	1.83	0.61
2:N:342:LEU:H	2:N:342:LEU:HD12	1.64	0.61
5:P:35:THR:CG2	5:P:36:VAL:N	2.63	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:U:169:LEU:CD1	7:1:30:LEU:N	2.63	0.61
7:1:24:GLU:CG	7:1:24:GLU:O	2.47	0.61
7:2:18:PHE:O	7:2:20:GLY:N	2.34	0.61
7:3:17:PRO:HD2	7:3:22:TRP:HB3	1.82	0.61
1:A:97:ALA:O	1:B:780:GLY:CA	2.48	0.60
1:A:828:PHE:CE1	1:A:841:PRO:HB3	2.36	0.60
1:B:2:ALA:CB	6:U:82:GLU:OE2	2.49	0.60
1:B:204:TRP:HE1	1:B:415:ASN:CA	2.12	0.60
1:B:335:TYR:CD2	1:B:341:ASN:OD1	2.54	0.60
1:B:452:ILE:HG23	1:C:158:GLY:HA3	1.81	0.60
1:D:198:GLN:OE1	1:E:838:GLN:HA	2.00	0.60
1:E:235:GLU:H	1:F:815:LYS:HD2	1.66	0.60
1:E:359:GLN:HE22	1:E:692:GLY:HA2	1.66	0.60
1:F:222:MET:HE1	1:F:311:ASN:CB	2.31	0.60
1:F:258:PHE:HB3	1:F:260:TYR:CE2	2.36	0.60
1:F:498:THR:HA	1:F:503:TYR:CD2	2.36	0.60
1:F:656:ILE:CG2	1:F:663:VAL:HG11	2.31	0.60
1:G:162:THR:HA	1:G:193:PHE:CE1	2.36	0.60
1:G:379:ARG:HG3	1:G:379:ARG:HH11	1.65	0.60
1:H:630:LEU:HD12	1:H:630:LEU:O	2.01	0.60
1:I:115:PRO:CB	1:I:323:TYR:CE1	2.84	0.60
1:I:515:ASP:HB3	1:I:517:TYR:CE2	2.36	0.60
1:J:438:SER:OG	1:K:278:LYS:HB2	2.01	0.60
1:J:720:LYS:NZ	5:Q:24:TRP:HB2	2.16	0.60
1:J:730:SER:O	1:J:732:PRO:N	2.33	0.60
1:J:752:GLU:O	1:J:754:TYR:CD1	2.49	0.60
1:K:385:ASN:HD21	1:K:546:ARG:HG3	1.66	0.60
1:K:644:ASN:N	1:K:644:ASN:ND2	2.49	0.60
1:L:356:VAL:HG12	1:L:940:TYR:CE2	2.36	0.60
4:M:12:ALA:HA	4:M:15:GLN:HE21	1.65	0.60
4:M:110:GLN:HA	4:M:110:GLN:OE1	2.00	0.60
5:P:12:LEU:O	5:P:12:LEU:HG	1.99	0.60
7:4:16:ARG:NH1	7:4:21:THR:HG23	2.16	0.60
1:A:724:MET:CB	1:A:902:ASP:OD2	2.49	0.60
1:A:804:GLN:HE22	1:C:551:GLY:CA	2.14	0.60
1:B:42:GLY:O	7:1:9:LEU:CB	2.42	0.60
1:B:362:ASN:C	1:B:364:GLU:H	2.03	0.60
1:C:262:ASP:OD2	1:C:263:VAL:O	2.19	0.60
1:D:405:ASP:O	1:D:405:ASP:OD1	2.19	0.60
1:E:31:PHE:CD1	1:E:31:PHE:C	2.75	0.60
1:E:89:GLY:O	1:E:92:ARG:HG3	2.00	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:623:ALA:O	1:E:626:THR:HG23	2.00	0.60
1:F:495:PRO:HD3	1:F:502:GLU:OE2	2.00	0.60
1:F:656:ILE:O	1:F:656:ILE:HG13	2.02	0.60
1:F:943:THR:HG22	1:F:944:PRO:HD3	1.83	0.60
1:F:950:ALA:CB	1:H:893:LEU:HB2	2.31	0.60
1:G:131:ASN:CB	1:G:225:CYS:HB2	2.28	0.60
1:G:600:ASP:OD2	1:G:700:VAL:CA	2.49	0.60
1:H:393:PRO:HG2	1:H:394:ASP:OD1	2.01	0.60
1:H:417:THR:CG2	1:I:159:VAL:HG21	2.30	0.60
1:I:133:SER:O	1:I:155:LYS:HA	2.00	0.60
1:I:362:ASN:ND2	1:I:362:ASN:O	2.34	0.60
1:I:842:TYR:CD1	1:I:843:PRO:CD	2.83	0.60
1:J:714:LEU:O	1:J:714:LEU:CG	2.49	0.60
1:J:906:GLU:OE1	5:Q:24:TRP:CZ2	2.54	0.60
1:K:450:ASN:HB2	1:L:156:THR:CA	2.24	0.60
1:K:450:ASN:CG	1:L:156:THR:CA	2.67	0.60
1:L:399:GLU:CB	1:L:523:ARG:HA	2.30	0.60
1:L:665:ILE:CD1	1:L:918:LEU:CD2	2.79	0.60
1:L:827:GLY:CA	1:L:840:GLN:N	2.64	0.60
4:M:18:PRO:HG3	4:M:22:ALA:CB	2.30	0.60
4:M:144:PHE:HB2	4:M:186:PHE:CG	2.36	0.60
4:M:152:VAL:H	4:M:153:PRO:HD3	1.65	0.60
6:U:81:GLN:NE2	6:U:179:ARG:H	1.99	0.60
1:A:159:VAL:HG21	1:B:841:PRO:HG2	1.82	0.60
1:A:398:ILE:CD1	1:A:477:VAL:HG21	2.29	0.60
1:A:462:ILE:CG2	1:B:411:CYS:SG	2.87	0.60
1:A:489:PRO:HD3	1:A:508:VAL:HG12	1.84	0.60
1:A:553:GLY:H	1:B:804:GLN:HE21	1.49	0.60
1:A:651:ASN:HB3	1:A:919:LEU:HD12	1.83	0.60
1:A:676:ARG:O	1:A:875:PHE:HB2	2.02	0.60
1:B:134:GLN:HG3	1:B:155:LYS:N	2.16	0.60
1:B:295:THR:HG22	1:B:318:PRO:HA	1.82	0.60
1:B:315:GLN:NE2	1:B:835:THR:HG23	2.14	0.60
1:B:339:THR:CB	1:B:342:MET:CE	2.79	0.60
1:B:464:LEU:O	1:B:464:LEU:HD23	2.01	0.60
1:B:573:LEU:HB3	1:B:641:GLN:NE2	2.16	0.60
1:B:636:ASN:HD22	4:M:16:SER:HB2	1.66	0.60
1:B:725:PHE:CE1	1:B:901:LEU:CD1	2.84	0.60
1:C:134:GLN:HB2	1:C:154:THR:CG2	2.22	0.60
1:C:328:ASP:OD2	1:C:386:SER:O	2.19	0.60
1:C:545:TYR:C	1:C:547:SER:H	2.04	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:463:ASN:ND2	1:D:466:ALA:CB	2.64	0.60
1:D:575:LEU:HD23	1:D:631:GLU:HB2	1.82	0.60
1:D:682:ARG:NH2	1:D:910:MET:SD	2.75	0.60
1:D:706:PRO:HB3	1:D:711:THR:O	2.02	0.60
1:D:747:ARG:NH1	1:D:752:GLU:OE2	2.34	0.60
1:E:569:ILE:HG22	1:E:569:ILE:O	2.01	0.60
1:E:731:TRP:N	1:E:732:PRO:CD	1.92	0.60
1:F:56:VAL:HG13	1:F:57:THR:N	2.16	0.60
1:G:828:PHE:HE1	1:I:125:ALA:HB2	1.64	0.60
1:H:725:PHE:HA	1:H:900:ALA:O	2.01	0.60
1:I:138:LYS:HD3	1:I:149:GLN:CG	2.31	0.60
1:J:113:PHE:O	1:J:113:PHE:CG	2.54	0.60
1:J:531:ASN:O	1:J:713:TYR:CE1	2.54	0.60
1:J:541:ALA:HA	1:J:544:ARG:HD3	1.83	0.60
1:J:745:ILE:HD13	1:J:765:TRP:CE2	2.36	0.60
1:K:287:ASN:H	1:K:287:ASN:ND2	1.99	0.60
1:K:320:ARG:NH1	1:K:597:LEU:CD1	2.64	0.60
1:K:575:LEU:CB	1:K:576:PRO:HD2	2.31	0.60
1:K:738:LEU:HD13	1:K:754:TYR:CE2	2.35	0.60
1:L:192:THR:HG22	1:L:193:PHE:CE1	2.37	0.60
1:L:419:THR:HG21	1:L:451:GLN:HG3	1.83	0.60
1:L:463:ASN:O	1:L:467:ASN:HB3	2.00	0.60
2:N:50:GLN:HA	2:N:50:GLN:OE1	2.01	0.60
4:M:219:ARG:NH2	4:M:301:ASN:C	2.52	0.60
5:R:12:LEU:CD2	5:R:17:LEU:HD21	2.30	0.60
5:S:33:GLY:C	5:S:43:PRO:O	2.39	0.60
6:U:168:TYR:HB2	7:1:31:ASN:ND2	2.16	0.60
1:A:360:ASP:O	1:A:361:ARG:HG3	2.01	0.60
1:A:829:THR:HG22	1:A:830:GLY:N	2.17	0.60
1:B:123:SER:HA	1:B:226:TYR:CE1	2.36	0.60
1:C:103:ILE:HD12	1:C:103:ILE:N	2.09	0.60
1:C:323:TYR:H	1:C:596:SER:HB3	1.66	0.60
1:D:117:SER:HB2	1:E:403:VAL:O	2.01	0.60
1:D:237:GLY:CA	1:E:817:VAL:HG13	2.32	0.60
1:D:424:GLN:HE22	1:E:264:PRO:HA	1.64	0.60
1:D:507:ARG:HH11	1:D:507:ARG:HG3	1.67	0.60
1:D:823:HIS:CA	1:F:196:GLU:OE2	2.49	0.60
1:E:77:THR:HB	5:P:76:ARG:NE	2.17	0.60
1:E:381:PHE:CD1	1:F:795:PHE:HE1	2.19	0.60
1:E:572:LEU:O	1:E:641:GLN:HG2	2.01	0.60
1:F:151:LYS:C	1:F:152:ASP:O	2.40	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:652:MET:SD	1:F:920:PHE:CD1	2.94	0.60
1:G:17:GLY:O	7:6:19:MET:HB3	2.02	0.60
1:G:49:THR:HG22	1:H:883:GLY:HA2	1.83	0.60
1:G:134:GLN:OE1	1:G:217:LYS:HA	2.01	0.60
1:G:448:ARG:HB2	1:G:449:GLN:HE22	1.66	0.60
1:G:448:ARG:HB2	1:G:449:GLN:NE2	2.16	0.60
1:G:724:MET:HE2	1:G:728:SER:O	2.00	0.60
1:G:746:LYS:HB2	1:G:760:ASN:O	2.01	0.60
1:H:682:ARG:HH21	1:H:910:MET:CB	2.14	0.60
1:H:792:TYR:O	1:H:793:SER:C	2.39	0.60
1:I:229:PHE:CD2	1:I:229:PHE:C	2.73	0.60
1:I:738:LEU:HD23	1:I:754:TYR:CD2	2.37	0.60
1:I:819:LEU:N	1:I:820:PRO:HD2	2.15	0.60
1:J:280:ASP:C	1:J:281:ILE:HG22	2.20	0.60
1:J:391:TYR:HD1	1:J:392:ASP:O	1.84	0.60
1:J:584:ASN:HD22	1:J:584:ASN:N	1.97	0.60
1:K:162:THR:HG21	1:K:193:PHE:CD2	2.35	0.60
1:L:83:ARG:HG3	1:L:582:GLU:CB	2.31	0.60
1:L:134:GLN:HG2	1:L:155:LYS:CA	2.31	0.60
1:L:503:TYR:O	1:L:505:ASN:N	2.29	0.60
1:L:933:ARG:O	1:L:933:ARG:CG	2.46	0.60
2:N:70:ASN:HB2	2:N:73:ASN:ND2	2.16	0.60
2:N:338:ARG:NH1	2:N:447:PHE:HB3	2.17	0.60
4:M:68:THR:O	4:M:72:VAL:HG12	2.01	0.60
5:P:33:GLY:HA3	5:P:44:ALA:CA	2.30	0.60
5:Q:122:VAL:HG12	5:Q:122:VAL:O	2.01	0.60
5:S:127:GLU:CB	5:S:131:GLN:HE21	2.15	0.60
6:U:215:ASN:HB2	6:U:223:VAL:CG1	2.30	0.60
6:V:183:ILE:HB	6:V:187:GLN:HG3	1.81	0.60
1:A:556:VAL:O	1:A:556:VAL:HG23	2.00	0.60
1:A:630:LEU:O	1:A:634:LEU:HB2	2.00	0.60
1:B:131:ASN:HB3	1:B:225:CYS:SG	2.41	0.60
1:B:204:TRP:CE3	1:C:313:VAL:HG13	2.37	0.60
1:B:454:LYS:HD2	1:C:281:ILE:HD11	1.84	0.60
1:C:240:ALA:HB3	1:C:288:VAL:HB	1.84	0.60
1:C:752:GLU:OE2	1:C:754:TYR:CE1	2.54	0.60
1:C:842:TYR:CE2	1:C:843:PRO:HD2	2.36	0.60
1:E:66:LEU:HD12	1:E:619:PHE:CE1	2.37	0.60
1:E:91:ASN:OD1	1:E:91:ASN:N	2.34	0.60
1:E:155:LYS:HZ3	1:E:283:LEU:CB	2.13	0.60
1:E:831:TYR:HB3	1:E:838:GLN:NE2	2.11	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:454:LYS:HD3	1:F:454:LYS:O	2.01	0.60
1:F:513:LEU:CD1	1:F:819:LEU:HD22	2.30	0.60
1:F:682:ARG:CZ	1:F:907:VAL:CG1	2.79	0.60
1:F:736:ARG:CG	1:F:736:ARG:NH1	2.62	0.60
1:G:63:ARG:HD2	1:G:64:LEU:H	1.67	0.60
1:G:160:ALA:CB	1:G:213:GLY:H	2.14	0.60
1:J:89:GLY:O	1:J:92:ARG:CD	2.49	0.60
1:J:149:GLN:O	1:J:150:GLU:HG2	2.01	0.60
1:J:655:PRO:HB3	5:R:8:PHE:CE2	2.37	0.60
1:J:681:THR:HG23	1:J:682:ARG:H	1.66	0.60
1:K:241:LYS:HZ3	1:K:256:ILE:CG2	2.13	0.60
1:K:474:TYR:OH	1:K:834:PRO:HG3	2.02	0.60
1:L:58:THR:HG21	1:L:62:GLN:NE2	2.17	0.60
2:N:254:ILE:CG2	2:N:354:TRP:CE2	2.85	0.60
2:N:392:LEU:CD1	2:N:483:ILE:HD13	2.32	0.60
2:N:441:THR:HG21	2:N:443:VAL:CG1	2.19	0.60
5:P:15:PRO:HB2	5:R:14:SER:HB2	1.84	0.60
7:2:16:ARG:NH1	7:2:16:ARG:HG2	2.15	0.60
1:A:73:ARG:NH2	1:A:80:TYR:CE1	2.69	0.60
1:A:260:TYR:CD2	1:A:282:ILE:CD1	2.85	0.60
1:A:426:VAL:CG2	1:B:260:TYR:HB2	2.24	0.60
1:B:2:ALA:HB2	6:U:82:GLU:OE2	2.02	0.60
1:B:513:LEU:HD13	1:B:819:LEU:HD13	1.84	0.60
1:B:661:THR:O	1:B:907:VAL:HG22	2.01	0.60
1:B:687:GLU:HG2	1:B:701:TYR:CE2	2.36	0.60
1:C:336:TYR:HE2	1:C:565:LYS:HD3	1.67	0.60
1:C:359:GLN:NE2	1:C:359:GLN:CA	2.57	0.60
1:C:405:ASP:OD1	1:C:405:ASP:C	2.39	0.60
1:C:943:THR:HB	1:C:944:PRO:HD3	1.84	0.60
1:D:202:GLU:HG2	1:E:299:TYR:OH	2.00	0.60
1:D:230:ALA:HB1	1:D:288:VAL:CG2	2.32	0.60
1:D:330:PHE:CZ	1:D:385:ASN:HB2	2.37	0.60
1:D:479:LEU:HD11	1:E:406:GLU:OE1	2.01	0.60
1:E:219:ASP:HB2	1:E:287:ASN:ND2	2.16	0.60
1:F:685:THR:HB	1:F:914:THR:HA	1.83	0.60
1:F:913:PRO:HG2	5:Q:8:PHE:HD1	1.66	0.60
1:G:198:GLN:CG	1:G:199:VAL:H	2.01	0.60
1:G:662:ASN:HA	1:G:906:GLU:HB2	1.82	0.60
1:H:465:GLN:HA	1:H:465:GLN:OE1	2.01	0.60
1:H:781:PHE:O	1:H:782:HIS:C	2.40	0.60
1:H:829:THR:CG2	1:H:830:GLY:N	2.64	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:853:GLN:HE21	1:H:853:GLN:H	1.50	0.60
1:I:115:PRO:CB	1:I:323:TYR:HE1	2.15	0.60
1:J:201:GLU:CD	1:J:201:GLU:N	2.52	0.60
1:J:587:LYS:HD2	1:J:610:PHE:HD1	1.63	0.60
1:K:93:VAL:HG12	1:K:575:LEU:HA	1.83	0.60
1:K:170:GLN:HG3	1:K:185:LYS:HD3	1.82	0.60
1:K:172:LEU:H	1:K:172:LEU:HD23	1.66	0.60
1:K:187:ILE:N	1:K:191:LYS:HB3	2.17	0.60
1:L:33:ARG:HH11	7:9:12:ARG:HB3	1.65	0.60
1:L:379:ARG:HB2	1:L:379:ARG:HH11	1.67	0.60
4:M:113:LEU:O	4:M:113:LEU:HG	2.01	0.60
4:M:152:VAL:H	4:M:153:PRO:CD	2.15	0.60
6:U:168:TYR:O	7:1:31:ASN:CB	2.49	0.60
1:A:210:PHE:HA	1:A:280:ASP:CB	2.31	0.60
1:B:435:ALA:HB3	1:C:270:ALA:HB1	1.84	0.60
1:B:452:ILE:HG22	1:C:160:ALA:H	1.67	0.60
1:C:328:ASP:OD1	1:C:328:ASP:C	2.39	0.60
1:C:380:TYR:CD1	1:C:387:ALA:CB	2.84	0.60
1:C:631:GLU:O	1:C:632:ALA:HB3	2.01	0.60
1:C:640:ASP:N	1:C:640:ASP:OD2	2.33	0.60
1:C:746:LYS:HG3	1:C:760:ASN:ND2	2.16	0.60
1:C:776:ILE:CG2	1:C:782:HIS:CE1	2.84	0.60
1:D:121:TYR:HE2	1:E:847:PRO:O	1.84	0.60
1:D:150:GLU:HB2	1:D:152:ASP:OD1	2.01	0.60
1:D:400:ASN:HD21	1:D:520:ILE:HG23	1.65	0.60
1:D:521:GLY:HA2	1:F:115:PRO:HB2	1.84	0.60
1:D:804:GLN:HG3	1:F:552:ASN:O	2.01	0.60
1:E:109:ARG:NH1	1:E:113:PHE:CZ	2.69	0.60
1:E:170:GLN:HG3	1:E:185:LYS:HE3	1.84	0.60
1:E:192:THR:CG2	1:E:193:PHE:CE1	2.85	0.60
1:E:440:TRP:HD1	1:E:441:GLU:CG	2.11	0.60
1:E:454:LYS:O	1:F:161:ALA:CA	2.50	0.60
1:E:643:PHE:CD1	1:E:643:PHE:N	2.69	0.60
1:E:779:GLN:NE2	1:F:39:PHE:HA	2.15	0.60
1:E:859:VAL:HG22	1:E:860:THR:H	1.66	0.60
1:F:76:THR:HG21	1:F:79:LEU:HD12	1.83	0.60
1:F:663:VAL:HG13	5:R:17:LEU:HD13	1.74	0.60
1:F:669:SER:HA	1:F:900:ALA:HB2	1.82	0.60
1:F:713:TYR:HA	1:F:867:ASP:CB	2.31	0.60
1:G:103:ILE:HG23	1:G:613:VAL:HG11	1.80	0.60
1:G:140:LYS:CG	1:G:147:VAL:CG2	2.80	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:380:TYR:CD1	1:G:387:ALA:CB	2.84	0.60
1:G:731:TRP:N	1:G:732:PRO:CD	2.63	0.60
1:H:113:PHE:HD1	1:H:324:ILE:CD1	2.10	0.60
1:H:745:ILE:HG22	1:H:746:LYS:N	2.16	0.60
1:H:770:MET:HG3	1:H:776:ILE:HD11	1.84	0.60
1:I:488:THR:N	1:I:507:ARG:HH21	2.00	0.60
1:I:922:VAL:HG12	1:I:944:PRO:HD2	1.84	0.60
1:J:95:ASP:OD2	1:K:779:GLN:HA	2.01	0.60
1:K:239:GLN:NE2	1:K:240:ALA:H	1.98	0.60
2:N:161:PHE:CE2	2:N:181:ILE:HA	2.37	0.60
2:N:342:LEU:HD12	2:N:342:LEU:N	2.17	0.60
4:M:249:ASN:OD1	4:M:250:SER:HB3	2.02	0.60
6:V:50:HIS:C	6:V:52:ASN:H	2.03	0.60
6:V:183:ILE:CD1	6:V:188:PHE:HA	2.32	0.60
7:9:10:ALA:N	7:9:11:PRO:HD3	2.16	0.60
1:A:193:PHE:HE2	1:A:284:TYR:HD1	1.49	0.60
1:A:201:GLU:HG3	1:B:838:GLN:HB3	1.83	0.60
1:A:633:MET:O	1:A:639:HIS:NE2	2.33	0.60
1:A:720:LYS:HB3	1:A:906:GLU:OE2	1.97	0.60
1:A:732:PRO:HG3	1:A:743:PHE:CZ	2.37	0.60
1:A:853:GLN:CA	1:C:111:PRO:HB3	2.32	0.60
1:A:930:GLN:O	1:A:930:GLN:HG3	2.01	0.60
1:B:61:SER:OG	1:C:734:ASN:HB2	2.02	0.60
1:B:203:ASN:CA	1:C:836:MET:HE1	2.30	0.60
1:B:231:ARG:HG2	1:B:232:PRO:CD	2.32	0.60
1:B:326:PHE:HE2	1:B:550:LEU:HD21	1.64	0.60
1:B:449:GLN:HE21	1:B:450:ASN:CG	2.04	0.60
1:C:800:PRO:C	1:C:801:MET:HG3	2.21	0.60
1:C:853:GLN:O	1:C:854:THR:HG23	2.02	0.60
1:D:202:GLU:HG3	1:D:206:GLU:OE2	2.02	0.60
1:E:62:GLN:OE1	1:E:621:PRO:HA	2.01	0.60
1:E:162:THR:CG2	1:E:163:GLY:O	2.48	0.60
1:E:267:SER:C	1:E:275:GLU:O	2.40	0.60
1:E:790:ARG:O	1:E:796:ARG:HD2	2.02	0.60
1:E:802:SER:OG	1:E:862:LYS:HG2	2.01	0.60
1:F:31:PHE:C	1:F:33:ARG:H	2.05	0.60
1:F:135:TRP:CH2	1:F:309:GLU:HB3	2.36	0.60
1:F:800:PRO:O	1:F:801:MET:CG	2.49	0.60
1:G:151:LYS:O	1:G:154:THR:N	2.32	0.60
1:G:204:TRP:HE1	1:G:415:ASN:CB	2.15	0.60
1:G:463:ASN:HD22	1:G:463:ASN:C	2.05	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:339:THR:HG22	1:J:740:PRO:CB	2.31	0.60
1:H:403:VAL:O	1:H:403:VAL:HG13	2.01	0.60
1:H:950:ALA:HB1	1:J:892:MET:CE	2.31	0.60
1:I:69:VAL:HG23	1:I:70:PRO:CD	2.25	0.60
1:J:100:TYR:CE2	1:J:561:GLN:HG2	2.37	0.60
1:K:72:ASP:OD2	1:K:83:ARG:HB3	2.02	0.60
1:K:731:TRP:N	1:K:732:PRO:HD2	2.15	0.60
1:L:84:PHE:HE2	1:L:614:ASN:HA	1.67	0.60
1:L:162:THR:O	1:L:211:TYR:HA	2.01	0.60
1:L:173:LEU:HD12	1:L:185:LYS:NZ	2.15	0.60
1:L:656:ILE:CG2	1:L:914:THR:O	2.49	0.60
1:L:731:TRP:CD2	1:L:731:TRP:C	2.65	0.60
2:N:232:ASP:HB3	2:N:355:TYR:HB2	1.84	0.60
7:1:16:ARG:HB3	7:1:22:TRP:O	2.01	0.60
7:3:22:TRP:CH2	7:3:25:ILE:CD1	2.83	0.60
1:A:75:ALA:HB1	1:A:587:LYS:HZ1	1.66	0.60
1:A:424:GLN:HB2	1:A:446:ILE:O	1.89	0.60
1:B:141:GLN:O	1:B:141:GLN:HG3	2.02	0.60
1:B:193:PHE:HZ	1:B:198:GLN:C	2.04	0.60
1:B:315:GLN:NE2	1:B:835:THR:HA	2.17	0.60
1:B:403:VAL:HG21	1:B:465:GLN:HB3	1.82	0.60
1:B:685:THR:HG23	1:B:685:THR:O	2.01	0.60
1:C:60:ARG:NE	6:U:93:ARG:NH1	2.48	0.60
1:C:66:LEU:HG	1:C:619:PHE:CE1	2.37	0.60
1:C:285:THR:O	1:C:286:GLU:HB3	2.02	0.60
1:C:514:VAL:O	1:C:514:VAL:CG2	2.48	0.60
1:D:200:GLY:CA	1:D:206:GLU:CG	2.68	0.60
1:D:414:LEU:HD21	1:F:410:TYR:HE2	1.67	0.60
1:D:839:GLY:CA	1:F:198:GLN:HG3	2.31	0.60
1:E:103:ILE:HD12	1:E:103:ILE:N	2.08	0.60
1:F:172:LEU:HD23	1:F:174:LEU:HD23	1.82	0.60
1:F:442:LYS:HG2	1:F:443:ASP:H	1.65	0.60
1:F:680:PHE:CD2	1:F:905:PHE:CE2	2.90	0.60
1:F:811:TYR:CD1	1:F:857:PRO:HD2	2.36	0.60
1:G:13:MET:HE3	1:H:941:LEU:HB2	1.81	0.60
1:G:364:GLU:HB3	1:G:708:LEU:O	2.01	0.60
1:G:833:ALA:HB1	1:G:834:PRO:HD2	1.81	0.60
1:G:951:THR:O	1:G:951:THR:CG2	2.49	0.60
1:H:22:GLU:HG2	1:H:22:GLU:O	2.02	0.60
1:H:353:ASN:ND2	1:H:354:ALA:N	2.48	0.60
1:H:806:VAL:HG21	1:H:848:TYR:CD2	2.36	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:138:LYS:CD	1:I:149:GLN:HB2	2.22	0.60
1:I:503:TYR:C	1:I:505:ASN:H	2.04	0.60
1:J:46:ARG:NH1	1:K:925:VAL:CG1	2.64	0.60
1:J:194:GLN:HB2	1:J:197:PRO:HG2	1.83	0.60
1:J:613:VAL:O	1:J:613:VAL:CG1	2.49	0.60
1:J:866:CYS:O	1:J:866:CYS:SG	2.59	0.60
1:K:8:PRO:HB3	6:V:18:GLY:HA2	1.83	0.60
1:K:31:PHE:C	1:K:31:PHE:CD1	2.75	0.60
1:L:56:VAL:HG13	7:8:24:GLU:OE1	2.02	0.60
1:L:419:THR:HG22	1:L:451:GLN:HB2	1.80	0.60
1:L:525:SER:CA	1:L:801:MET:HE3	2.32	0.60
2:N:138:ARG:HH11	2:N:195:LEU:HD13	1.67	0.60
5:P:16:TYR:HA	5:Q:18:THR:CG2	2.32	0.60
5:S:34:SER:O	5:S:43:PRO:CD	2.50	0.60
6:V:197:TYR:CE2	6:V:200:PRO:HA	2.36	0.60
1:A:331:VAL:O	1:A:331:VAL:HG23	2.02	0.60
1:A:907:VAL:HG23	1:A:908:ASP:H	1.67	0.60
1:A:929:HIS:HB3	1:A:937:GLU:HG3	1.84	0.60
1:B:635:ARG:HH12	1:B:933:ARG:HG3	1.67	0.60
1:B:685:THR:O	1:B:685:THR:CG2	2.45	0.60
1:C:60:ARG:HE	6:U:93:ARG:NH1	1.98	0.60
1:C:199:VAL:CG2	1:C:211:TYR:HE2	2.14	0.60
1:C:349:ALA:O	1:J:87:ALA:CB	2.49	0.60
1:C:501:TYR:C	1:C:501:TYR:CD2	2.73	0.60
1:C:667:ILE:HG22	1:C:668:PRO:HD2	1.83	0.60
1:C:765:TRP:HZ2	1:C:871:TRP:HB3	1.67	0.60
1:D:10:TRP:CZ3	1:E:943:THR:CG2	2.75	0.60
1:D:46:ARG:HH11	1:D:46:ARG:CB	2.04	0.60
1:D:260:TYR:HD2	1:D:282:ILE:HG22	1.56	0.60
1:D:337:ASN:ND2	1:D:362:ASN:HA	2.17	0.60
1:D:681:THR:O	1:D:917:TYR:HB3	2.02	0.60
1:E:373:SER:HA	1:E:790:ARG:CD	2.32	0.60
1:E:552:ASN:HB2	1:F:522:ALA:HB2	1.84	0.60
1:F:70:PRO:HA	1:F:84:PHE:CD2	2.37	0.60
1:F:103:ILE:HG21	1:F:610:PHE:CD1	2.37	0.60
1:F:165:ILE:HD11	1:F:175:GLY:HA2	1.83	0.60
1:F:543:LEU:HD13	1:F:543:LEU:O	2.02	0.60
1:F:582:GLU:OE1	1:F:582:GLU:C	2.40	0.60
1:G:158:GLY:H	1:I:452:ILE:HG23	1.67	0.60
1:G:663:VAL:O	1:G:663:VAL:HG13	2.02	0.60
1:H:151:LYS:HB3	1:H:154:THR:HG21	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:161:ALA:O	1:H:193:PHE:HE2	1.76	0.60
1:H:243:LYS:H	1:H:243:LYS:CD	2.14	0.60
1:I:510:ALA:HB2	1:I:832:LEU:C	2.22	0.60
1:I:748:SER:HB2	5:S:55:GLY:H	1.67	0.60
1:I:827:GLY:HA2	1:I:839:GLY:HA3	1.83	0.60
1:J:330:PHE:CE2	1:J:560:ILE:HD12	2.37	0.60
1:J:449:GLN:O	1:K:153:VAL:HG12	2.01	0.60
1:J:463:ASN:HD22	1:J:466:ALA:H	1.47	0.60
1:J:684:LYS:HE2	1:J:713:TYR:OH	2.01	0.60
1:J:921:GLU:O	1:J:922:VAL:HG13	1.94	0.60
1:K:261:PHE:O	1:K:280:ASP:HB2	2.01	0.60
1:K:478:ALA:C	1:K:480:TYR:N	2.54	0.60
1:K:562:VAL:O	1:K:562:VAL:CG2	2.49	0.60
1:L:20:ALA:O	7:9:9:LEU:HD11	2.02	0.60
1:L:21:SER:N	7:9:9:LEU:CD1	2.65	0.60
1:L:72:ASP:OD2	1:L:83:ARG:HB3	2.02	0.60
1:L:242:PHE:HE1	1:L:289:ASN:N	1.98	0.60
1:L:260:TYR:CE2	1:L:282:ILE:HG21	2.36	0.60
1:L:707:TYR:HD2	1:L:708:LEU:HB3	1.67	0.60
2:N:145:VAL:HG13	2:N:146:GLU:N	1.93	0.60
4:M:337:THR:N	4:M:338:PRO:CD	2.64	0.60
5:P:15:PRO:CB	5:R:15:PRO:CD	2.80	0.60
7:2:21:THR:HG22	7:2:21:THR:O	2.02	0.60
7:9:10:ALA:N	7:9:11:PRO:CD	2.65	0.60
1:A:823:HIS:CA	1:C:196:GLU:OE2	2.49	0.59
1:A:853:GLN:CB	1:C:111:PRO:HB3	2.32	0.59
1:B:78:TYR:CD1	1:B:695:PHE:HB2	2.36	0.59
1:B:88:VAL:HG13	1:B:576:PRO:HA	1.83	0.59
1:B:198:GLN:NE2	1:C:840:GLN:HB3	2.17	0.59
1:B:336:TYR:HB3	1:B:337:ASN:ND2	2.17	0.59
1:C:81:LYS:HB2	1:C:584:ASN:OD1	2.01	0.59
1:C:96:MET:O	1:C:96:MET:HG3	2.02	0.59
1:C:191:LYS:HG3	1:C:194:GLN:HE21	1.66	0.59
1:C:205:GLN:O	1:C:205:GLN:HG3	2.02	0.59
1:C:423:TYR:H	1:C:450:ASN:HB2	1.65	0.59
1:D:79:LEU:HG	1:D:80:TYR:N	2.16	0.59
1:D:136:GLU:CB	1:D:218:LYS:HE3	2.32	0.59
1:D:277:TYR:CD1	1:D:277:TYR:C	2.75	0.59
1:D:756:VAL:HA	1:F:561:GLN:HE22	1.67	0.59
1:E:281:ILE:O	1:E:281:ILE:HG13	2.02	0.59
1:E:442:LYS:O	1:E:443:ASP:OD1	2.21	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:515:ASP:OD1	1:E:516:ALA:N	2.34	0.59
1:E:561:GLN:NE2	1:F:756:VAL:O	2.35	0.59
1:F:334:MET:HG3	1:F:336:TYR:HE1	1.64	0.59
1:F:339:THR:HG22	1:H:740:PRO:HG2	1.84	0.59
1:F:667:ILE:HD11	1:F:901:LEU:CG	2.30	0.59
1:G:162:THR:CA	1:G:193:PHE:CE1	2.85	0.59
1:G:358:LEU:HD22	1:G:942:ARG:CD	2.32	0.59
1:G:665:ILE:O	1:G:666:SER:HB2	2.00	0.59
1:H:135:TRP:CZ3	1:H:137:THR:HB	2.36	0.59
1:H:220:THR:CG2	1:H:290:LEU:HB2	2.31	0.59
1:H:429:THR:CG2	1:H:430:ASN:N	2.44	0.59
1:I:55:ASP:CB	1:I:626:THR:CG2	2.73	0.59
1:I:842:TYR:CG	1:I:843:PRO:CD	2.80	0.59
1:J:543:LEU:HA	1:J:546:ARG:NH1	2.17	0.59
1:J:543:LEU:HA	1:J:546:ARG:HH12	1.66	0.59
1:J:655:PRO:CG	5:R:9:GLU:OE1	2.50	0.59
1:J:951:THR:HG23	8:X:6:UNK:O	2.02	0.59
1:K:726:ASP:OD1	1:K:726:ASP:C	2.41	0.59
1:L:112:SER:O	1:L:112:SER:OG	2.20	0.59
1:L:525:SER:CA	1:L:801:MET:CE	2.79	0.59
1:L:691:LEU:HD11	1:L:707:TYR:CE2	2.36	0.59
1:L:769:GLN:HG2	1:L:871:TRP:HZ3	1.67	0.59
2:N:406:SER:HA	2:N:496:ARG:O	2.02	0.59
2:N:503:TYR:O	2:N:503:TYR:HD1	1.85	0.59
5:P:18:THR:OG1	5:R:16:TYR:CD2	2.53	0.59
5:Q:101:LEU:O	5:Q:105:LEU:HB2	2.02	0.59
1:A:75:ALA:HB1	1:A:587:LYS:NZ	2.18	0.59
1:A:783:VAL:HG12	1:A:784:PRO:HD2	1.80	0.59
1:B:122:ASN:O	1:B:125:ALA:CB	2.51	0.59
1:B:133:SER:OG	1:B:134:GLN:N	2.35	0.59
1:C:60:ARG:NH2	6:U:93:ARG:HG3	2.16	0.59
1:C:64:LEU:HD11	1:C:621:PRO:HD3	1.85	0.59
1:C:66:LEU:HD12	1:C:619:PHE:CZ	2.37	0.59
1:C:83:ARG:HB2	1:C:582:GLU:CB	2.26	0.59
1:C:368:GLN:OE1	1:C:368:GLN:HA	2.01	0.59
1:D:676:ARG:NH2	7:4:5:ASN:HD21	2.00	0.59
1:F:280:ASP:O	1:F:281:ILE:HG13	2.02	0.59
1:F:875:PHE:HE2	1:F:889:GLY:CA	2.15	0.59
1:G:58:THR:HG22	1:G:60:ARG:H	1.67	0.59
1:G:214:ARG:HH22	1:G:241:LYS:NZ	2.01	0.59
1:G:315:GLN:NE2	1:I:203:ASN:OD1	2.34	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:477:VAL:O	1:G:477:VAL:HG13	2.01	0.59
1:G:735:ASP:O	1:I:63:ARG:HA	2.02	0.59
1:H:366:SER:CB	1:H:647:LEU:HB3	2.22	0.59
1:H:569:ILE:O	1:H:569:ILE:CG2	2.50	0.59
1:H:677:GLY:O	1:H:921:GLU:HB2	2.01	0.59
1:I:261:PHE:CE1	1:I:283:LEU:HD12	2.37	0.59
1:I:327:ARG:HH21	1:I:705:ILE:HG23	1.67	0.59
1:I:413:PRO:HD3	1:I:458:TYR:O	2.02	0.59
1:J:366:SER:C	1:J:368:GLN:H	2.03	0.59
1:K:946:SER:HB3	6:U:28:SER:O	2.02	0.59
1:L:47:ASN:ND2	7:9:8:SER:O	2.35	0.59
1:L:267:SER:CA	1:L:277:TYR:CD2	2.84	0.59
1:L:462:ILE:HG12	1:L:463:ASN:H	1.67	0.59
2:N:111:LYS:HB2	2:N:473:ASP:HB3	1.83	0.59
4:M:194:LEU:HD22	6:U:208:TYR:HB3	1.84	0.59
5:R:39:ARG:NH1	5:R:60:ASP:OD1	2.34	0.59
5:R:44:ALA:HB2	5:R:51:TYR:CE1	2.28	0.59
6:U:177:GLU:OE1	6:U:178:PRO:HD2	2.01	0.59
6:V:13:TYR:HB2	6:V:188:PHE:CZ	2.36	0.59
1:A:1:MET:HB2	1:B:931:PRO:HG3	1.84	0.59
1:A:106:VAL:HA	1:A:557:PRO:HA	1.82	0.59
1:A:288:VAL:HG22	1:A:289:ASN:H	1.66	0.59
1:A:623:ALA:C	1:A:625:ASN:H	2.03	0.59
1:A:783:VAL:HG12	1:A:784:PRO:O	2.02	0.59
1:A:922:VAL:O	1:A:922:VAL:CG2	2.49	0.59
1:B:71:VAL:O	1:B:71:VAL:HG12	2.03	0.59
1:B:95:ASP:OD1	1:C:779:GLN:HG3	2.01	0.59
1:B:171:GLY:H	1:B:258:PHE:HE2	1.48	0.59
1:B:278:LYS:HG3	1:B:280:ASP:OD2	2.02	0.59
1:B:682:ARG:CZ	1:B:910:MET:CB	2.79	0.59
1:B:783:VAL:HG12	1:B:795:PHE:HZ	1.66	0.59
1:C:109:ARG:HB3	1:C:113:PHE:HB2	1.83	0.59
1:C:187:ILE:C	1:C:189:ALA:H	2.05	0.59
1:C:409:ASN:HD22	1:C:464:LEU:HB2	1.65	0.59
1:C:507:ARG:HH11	1:C:507:ARG:CB	2.11	0.59
1:C:525:SER:OG	1:C:865:LEU:CD1	2.50	0.59
1:D:156:THR:HG22	1:F:451:GLN:OE1	2.02	0.59
1:D:456:ASN:ND2	1:F:837:ARG:O	2.35	0.59
1:D:825:ASN:HA	1:F:122:ASN:HA	1.83	0.59
1:E:25:SER:HB3	1:F:639:HIS:HE2	1.67	0.59
1:E:167:ILE:HG13	1:E:210:PHE:HB3	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:513:LEU:HD13	1:E:819:LEU:CD1	2.32	0.59
1:E:518:ILE:O	1:E:518:ILE:HD12	2.03	0.59
1:F:28:LEU:O	1:F:28:LEU:HG	2.02	0.59
1:F:462:ILE:HG12	1:F:463:ASN:N	2.18	0.59
1:F:657:PRO:HD3	5:R:12:LEU:CD2	2.32	0.59
1:F:661:THR:HG22	1:F:909:PRO:CD	2.33	0.59
1:F:766:PHE:CD1	1:F:766:PHE:O	2.55	0.59
1:G:43:ASN:HA	7:7:8:SER:CB	2.31	0.59
1:G:134:GLN:HB2	1:G:155:LYS:NZ	2.16	0.59
1:G:216:LEU:N	1:G:216:LEU:HD23	2.17	0.59
1:G:399:GLU:OE1	1:G:523:ARG:HB3	2.01	0.59
1:H:131:ASN:HD22	1:H:225:CYS:HB2	1.66	0.59
1:H:524:TRP:HA	1:H:524:TRP:HE3	1.66	0.59
1:H:811:TYR:HD1	1:H:857:PRO:HD2	1.64	0.59
1:I:190:ASP:C	1:I:192:THR:H	2.06	0.59
1:I:222:MET:SD	1:I:307:SER:CB	2.86	0.59
1:I:243:LYS:CD	1:I:253:ASP:O	2.49	0.59
1:I:679:SER:O	1:I:919:LEU:HB3	2.02	0.59
1:I:869:VAL:HG23	1:I:870:MET:N	2.17	0.59
1:J:134:GLN:C	1:J:135:TRP:CD1	2.76	0.59
1:J:760:ASN:OD1	1:J:863:LYS:HA	2.01	0.59
1:J:839:GLY:CA	1:L:198:GLN:HG3	2.28	0.59
1:K:403:VAL:HG21	1:K:466:ALA:HA	1.84	0.59
1:K:443:ASP:HB3	1:L:151:LYS:N	2.17	0.59
1:K:621:PRO:CD	1:L:778:TYR:HE2	2.14	0.59
1:K:681:THR:CG2	1:K:682:ARG:H	2.10	0.59
1:K:837:ARG:HH11	1:L:459:ALA:CB	2.14	0.59
1:K:910:MET:HE2	1:K:914:THR:HG21	1.85	0.59
1:L:95:ASP:CG	1:L:96:MET:H	2.04	0.59
1:L:494:LEU:HD23	1:L:503:TYR:CE1	2.37	0.59
1:L:719:LYS:HB2	1:L:906:GLU:CG	2.31	0.59
1:L:734:ASN:ND2	1:L:735:ASP:H	2.00	0.59
2:N:411:VAL:HG13	2:N:477:LEU:CD1	2.31	0.59
6:U:187:GLN:HA	6:U:187:GLN:OE1	2.00	0.59
6:V:62:THR:CG2	6:V:190:GLU:CB	2.77	0.59
7:6:22:TRP:HH2	7:6:25:ILE:HD11	0.63	0.59
1:A:136:GLU:HG2	1:A:151:LYS:HG2	1.83	0.59
1:A:198:GLN:CD	1:B:839:GLY:N	2.56	0.59
1:A:526:LEU:HG	1:A:528:PRO:HD2	1.82	0.59
1:B:870:MET:HG2	1:B:870:MET:O	2.03	0.59
1:B:933:ARG:HH22	4:M:92:LEU:CD2	2.14	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:188:TYR:HA	1:C:192:THR:OG1	2.01	0.59
1:C:356:VAL:HG23	1:C:940:TYR:CD1	2.35	0.59
1:C:494:LEU:HD22	1:C:503:TYR:HA	1.85	0.59
1:C:811:TYR:CG	1:C:856:VAL:HG23	2.36	0.59
1:D:736:ARG:O	1:F:64:LEU:HB3	2.02	0.59
1:F:260:TYR:CD2	1:F:282:ILE:HG22	2.37	0.59
1:F:524:TRP:HA	1:F:801:MET:HE3	1.84	0.59
1:F:660:ALA:CB	5:R:11:GLY:HA3	2.29	0.59
1:F:713:TYR:HA	1:F:867:ASP:HB2	1.83	0.59
1:G:102:ASP:O	1:G:613:VAL:HA	2.02	0.59
1:G:370:LEU:HD23	1:G:570:LYS:HZ1	1.68	0.59
1:H:151:LYS:O	1:H:154:THR:HG23	2.03	0.59
1:H:482:PRO:HD3	1:H:529:MET:HB3	1.84	0.59
1:H:544:ARG:HD2	1:I:401:HIS:NE2	2.17	0.59
1:I:298:VAL:HG12	1:I:316:SER:CA	2.24	0.59
1:I:636:ASN:CG	1:I:637:ASP:H	2.05	0.59
1:J:10:TRP:HB3	1:J:16:ALA:HB3	1.85	0.59
1:J:198:GLN:CB	1:K:839:GLY:HA2	2.24	0.59
1:K:14:HIS:NE2	1:K:23:TYR:CE1	2.71	0.59
1:K:923:PHE:O	1:K:942:ARG:CA	2.45	0.59
1:L:199:VAL:HG12	1:L:206:GLU:CB	2.31	0.59
1:L:556:VAL:O	1:L:556:VAL:HG23	2.01	0.59
1:L:921:GLU:C	1:L:922:VAL:CG1	2.71	0.59
5:P:15:PRO:C	5:Q:18:THR:OG1	2.40	0.59
5:P:18:THR:CB	5:R:15:PRO:O	2.48	0.59
1:A:28:LEU:HD23	1:B:639:HIS:CD2	2.37	0.59
1:A:677:GLY:H	1:A:921:GLU:HG3	1.67	0.59
1:B:371:LEU:HD12	1:B:377:ARG:NH2	2.16	0.59
1:B:452:ILE:HD12	1:C:158:GLY:HA3	1.84	0.59
1:B:720:LYS:HG3	1:B:742:GLU:OE2	2.03	0.59
1:C:390:SER:H	1:C:540:ASN:HD21	1.49	0.59
1:C:424:GLN:HA	1:C:445:ALA:HB3	1.85	0.59
1:C:776:ILE:HG22	1:C:782:HIS:CE1	2.38	0.59
1:C:935:VAL:CG1	1:C:935:VAL:O	2.51	0.59
1:D:109:ARG:NH1	1:D:551:GLY:O	2.36	0.59
1:D:463:ASN:O	1:D:467:ASN:ND2	2.21	0.59
1:D:556:VAL:O	1:D:556:VAL:HG23	2.02	0.59
1:E:135:TRP:CH2	1:E:153:VAL:HG12	2.38	0.59
1:E:552:ASN:ND2	1:F:522:ALA:HB2	2.16	0.59
1:F:929:HIS:C	1:F:931:PRO:HD3	2.23	0.59
1:G:224:PRO:C	1:G:226:TYR:H	2.05	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:398:ILE:HD11	1:G:477:VAL:HG21	1.83	0.59
1:G:452:ILE:HG23	1:H:158:GLY:CA	2.28	0.59
1:G:572:LEU:HD11	1:G:928:VAL:HG11	1.84	0.59
1:G:633:MET:O	1:G:636:ASN:HB3	2.02	0.59
1:G:696:ASP:OD1	1:G:696:ASP:N	2.34	0.59
1:G:923:PHE:O	1:G:924:ASP:C	2.40	0.59
1:H:407:LEU:O	1:H:407:LEU:HD12	2.03	0.59
1:H:720:LYS:CA	1:H:743:PHE:O	2.51	0.59
1:H:827:GLY:HA2	1:H:839:GLY:C	2.22	0.59
1:H:863:LYS:HG2	1:H:863:LYS:O	2.01	0.59
1:I:299:TYR:CB	1:I:315:GLN:HE21	2.16	0.59
1:I:514:VAL:HG21	1:I:526:LEU:CD1	2.32	0.59
1:I:531:ASN:O	1:I:713:TYR:HE1	1.85	0.59
1:I:940:TYR:CE2	8:Z:9:UNK:CB	2.85	0.59
1:J:109:ARG:CB	1:J:324:ILE:HD13	2.31	0.59
1:J:664:PRO:HD2	5:P:12:LEU:HD21	1.83	0.59
1:K:137:THR:OG1	1:K:153:VAL:CG2	2.47	0.59
1:K:214:ARG:HH12	1:K:241:LYS:CE	2.15	0.59
1:K:644:ASN:O	1:K:645:ASP:C	2.41	0.59
1:K:731:TRP:C	1:K:733:GLY:N	2.54	0.59
1:K:759:CYS:SG	1:K:800:PRO:HB3	2.43	0.59
1:L:280:ASP:OD1	1:L:280:ASP:N	2.36	0.59
1:L:376:ASP:O	1:L:376:ASP:OD1	2.20	0.59
1:L:415:ASN:OD1	1:L:415:ASN:O	2.21	0.59
1:L:429:THR:CG2	1:L:430:ASN:H	1.92	0.59
1:L:635:ARG:NH1	1:L:933:ARG:N	2.50	0.59
1:L:849:PRO:O	1:L:856:VAL:HG22	2.03	0.59
2:N:120:ASN:HD22	2:N:168:PHE:HB3	1.67	0.59
2:N:332:GLU:HA	2:N:342:LEU:HD11	1.83	0.59
4:M:246:VAL:HB	4:M:249:ASN:HB3	1.85	0.59
7:6:27:THR:HG22	7:6:27:THR:O	2.02	0.59
1:A:298:VAL:HG22	1:A:317:MET:HG2	1.85	0.59
1:A:456:ASN:CG	1:C:838:GLN:HA	2.21	0.59
1:A:524:TRP:CH2	1:A:863:LYS:HG2	2.37	0.59
1:B:196:GLU:C	1:C:831:TYR:HD1	2.05	0.59
1:B:203:ASN:HB2	1:C:836:MET:SD	2.43	0.59
1:C:169:ASN:N	1:C:169:ASN:ND2	2.49	0.59
1:C:377:ARG:NH2	1:C:386:SER:O	2.35	0.59
1:C:490:ALA:O	1:C:491:ASN:CG	2.41	0.59
1:D:203:ASN:HB3	1:D:204:TRP:CZ3	2.38	0.59
1:D:363:THR:HA	1:D:366:SER:HB3	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:391:TYR:O	1:D:391:TYR:CG	2.55	0.59
1:D:852:GLY:O	1:F:554:ARG:HD2	2.03	0.59
1:D:941:LEU:CD2	1:F:13:MET:CG	2.78	0.59
1:E:52:PRO:CG	7:3:23:ASN:HD22	2.11	0.59
1:E:152:ASP:O	1:E:153:VAL:C	2.36	0.59
1:G:869:VAL:HG13	1:G:870:MET:N	2.16	0.59
1:H:677:GLY:H	1:H:921:GLU:HB3	1.66	0.59
1:H:851:ILE:N	1:H:851:ILE:HD13	2.17	0.59
1:I:517:TYR:HA	1:I:520:ILE:CG1	2.32	0.59
1:J:135:TRP:H	1:J:154:THR:CA	2.16	0.59
1:J:774:TYR:OH	1:J:795:PHE:HB2	2.02	0.59
1:J:839:GLY:CA	1:L:198:GLN:CG	2.81	0.59
1:J:907:VAL:CG2	1:J:907:VAL:O	2.49	0.59
1:K:204:TRP:CZ3	1:L:313:VAL:HG23	2.37	0.59
1:K:239:GLN:HG3	1:K:240:ALA:N	2.17	0.59
1:K:426:VAL:CG1	1:K:440:TRP:HB3	2.32	0.59
1:K:462:ILE:HG23	1:K:464:LEU:H	1.67	0.59
1:L:829:THR:CG2	1:L:830:GLY:N	2.56	0.59
4:M:227:THR:C	4:M:229:ASN:H	2.06	0.59
5:P:62:THR:HG1	5:P:65:ALA:HB3	1.67	0.59
6:U:11:TRP:CZ2	6:U:69:LEU:CD2	2.86	0.59
6:U:169:LEU:HD12	7:1:30:LEU:N	2.18	0.59
6:U:208:TYR:CB	6:U:209:PRO:HD2	2.05	0.59
6:V:223:VAL:HG13	6:V:224:ASP:H	1.67	0.59
1:A:214:ARG:O	1:B:842:TYR:CE1	2.56	0.59
1:A:515:ASP:HB3	1:A:517:TYR:CE2	2.37	0.59
1:A:590:ASN:OD1	1:A:702:SER:HB3	2.02	0.59
1:A:838:GLN:CB	1:C:198:GLN:NE2	2.65	0.59
1:A:842:TYR:CD1	1:A:843:PRO:HD2	2.38	0.59
1:B:18:GLN:O	1:B:48:PRO:CD	2.50	0.59
1:B:449:GLN:NE2	1:B:450:ASN:ND2	2.44	0.59
1:B:678:TRP:HZ2	1:B:901:LEU:HD21	1.68	0.59
1:C:356:VAL:HG21	1:C:940:TYR:CD1	2.34	0.59
1:C:572:LEU:CD1	1:C:928:VAL:HG21	2.33	0.59
1:C:723:ILE:C	1:C:729:VAL:CG2	2.71	0.59
1:C:922:VAL:CG2	1:C:944:PRO:CD	2.68	0.59
1:D:44:LYS:NZ	1:E:571:ASN:HB2	2.17	0.59
1:D:391:TYR:O	1:D:391:TYR:CD1	2.56	0.59
1:D:621:PRO:HB2	1:E:736:ARG:NH1	2.11	0.59
1:D:756:VAL:HG12	1:D:763:LYS:HA	1.84	0.59
1:D:860:THR:CG2	1:F:557:PRO:HD2	2.32	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:78:TYR:HE2	1:E:695:PHE:CE2	2.19	0.59
1:E:214:ARG:NH2	1:E:286:GLU:OE2	2.35	0.59
1:E:822:GLN:HB2	1:E:846:PHE:HB2	1.84	0.59
1:F:278:LYS:HG2	1:F:278:LYS:O	2.02	0.59
1:G:67:ARG:CD	1:G:616:TYR:HE2	2.16	0.59
1:G:279:ALA:HB2	1:I:426:VAL:CG2	2.33	0.59
1:G:359:GLN:OE1	1:G:692:GLY:CA	2.48	0.59
1:G:544:ARG:HD2	1:H:401:HIS:CE1	2.37	0.59
1:G:868:ARG:HH11	1:G:868:ARG:HG2	1.66	0.59
1:H:531:ASN:CB	1:H:714:LEU:HD21	2.33	0.59
1:H:803:ARG:HE	1:H:861:GLN:HG3	1.68	0.59
1:H:933:ARG:NH1	1:H:933:ARG:HG3	2.18	0.59
1:I:115:PRO:CA	1:I:323:TYR:CE1	2.85	0.59
1:I:943:THR:HG22	1:I:944:PRO:N	2.14	0.59
1:J:158:GLY:CA	1:L:452:ILE:CG2	2.51	0.59
1:J:303:THR:HG23	1:J:491:ASN:OD1	2.02	0.59
1:J:315:GLN:OE1	1:J:836:MET:HB2	2.02	0.59
1:J:441:GLU:OE2	1:J:443:ASP:CB	2.50	0.59
1:J:641:GLN:N	1:J:641:GLN:OE1	2.34	0.59
1:J:833:ALA:C	1:J:835:THR:H	2.04	0.59
1:K:66:LEU:CG	1:K:619:PHE:HE1	2.14	0.59
1:K:172:LEU:CD2	1:K:193:PHE:CE1	2.74	0.59
1:K:202:GLU:HG2	1:L:313:VAL:CG1	2.32	0.59
1:K:724:MET:HE2	1:K:724:MET:HA	1.83	0.59
1:K:738:LEU:CD2	1:K:754:TYR:HE2	2.13	0.59
1:L:21:SER:CB	7:9:11:PRO:HG2	2.31	0.59
1:L:498:THR:HG22	1:L:503:TYR:CE2	2.37	0.59
4:M:221:THR:C	4:M:223:SER:N	2.56	0.59
5:Q:9:GLU:HG2	5:Q:10:GLY:CA	2.31	0.59
5:R:44:ALA:HB3	5:R:51:TYR:CZ	2.18	0.59
1:A:391:TYR:O	1:A:391:TYR:CG	2.56	0.59
1:B:204:TRP:CZ2	1:C:130:PRO:HD3	2.37	0.59
1:B:518:ILE:O	1:B:518:ILE:HG13	2.03	0.59
1:B:543:LEU:CD1	1:B:546:ARG:HH21	2.14	0.59
1:C:336:TYR:CE2	1:C:565:LYS:HD3	2.37	0.59
1:C:445:ALA:HB1	1:C:449:GLN:N	2.18	0.59
1:C:494:LEU:HD13	1:C:503:TYR:CE1	2.37	0.59
1:C:530:ASP:OD1	1:C:865:LEU:CD2	2.51	0.59
1:D:104:ARG:HD3	1:D:559:HIS:HD2	1.67	0.59
1:D:661:THR:HG22	1:D:909:PRO:HD3	1.83	0.59
1:D:683:LEU:O	1:D:914:THR:CG2	2.48	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:152:ASP:O	1:F:154:THR:N	2.36	0.59
1:F:204:TRP:CD1	1:F:415:ASN:HB3	2.38	0.59
1:F:536:ASN:HB3	1:F:596:SER:C	2.17	0.59
1:F:686:LYS:CG	5:Q:8:PHE:HZ	2.10	0.59
1:F:686:LYS:O	1:F:686:LYS:HD2	2.03	0.59
1:G:365:LEU:O	1:G:365:LEU:HG	2.02	0.59
1:G:460:MET:HG2	1:I:460:MET:SD	2.43	0.59
1:G:719:LYS:O	1:G:720:LYS:C	2.38	0.59
1:G:893:LEU:CD2	1:G:894:TYR:CD1	2.86	0.59
1:H:46:ARG:HD3	1:I:644:ASN:HD21	1.66	0.59
1:H:155:LYS:HZ3	1:H:215:ALA:CB	2.08	0.59
1:H:266:GLY:H	1:H:276:GLU:CG	2.15	0.59
1:H:680:PHE:N	1:H:680:PHE:CD1	2.70	0.59
1:H:824:ASN:HA	1:H:844:ALA:CB	2.32	0.59
1:I:151:LYS:NZ	1:I:218:LYS:HD3	2.18	0.59
1:I:154:THR:HG22	1:I:155:LYS:N	2.18	0.59
1:I:351:GLN:HA	1:I:351:GLN:HE21	1.67	0.59
1:I:422:THR:HG21	1:I:449:GLN:CB	2.33	0.59
1:J:166:ASN:HA	1:J:210:PHE:HE1	1.62	0.59
1:J:173:LEU:HB2	1:J:185:LYS:NZ	2.18	0.59
1:J:313:VAL:HB	1:L:203:ASN:HD21	1.68	0.59
1:J:359:GLN:O	1:J:359:GLN:HG3	2.03	0.59
1:J:414:LEU:HD11	1:K:837:ARG:CD	2.33	0.59
1:J:428:ILE:HG12	1:K:278:LYS:NZ	2.18	0.59
1:J:851:ILE:CD1	1:L:116:TYR:CE2	2.86	0.59
1:K:25:SER:H	1:L:639:HIS:CE1	2.21	0.59
1:K:76:THR:O	1:K:587:LYS:NZ	2.34	0.59
1:K:155:LYS:HE2	1:K:215:ALA:HB3	1.83	0.59
1:K:424:GLN:HE21	1:L:264:PRO:HA	1.65	0.59
1:L:151:LYS:HG3	1:L:154:THR:OG1	2.02	0.59
1:L:650:ALA:HB2	1:L:942:ARG:NE	2.12	0.59
1:L:759:CYS:HB2	1:L:800:PRO:HB3	1.83	0.59
1:L:893:LEU:HD23	6:V:227:ASP:HA	1.85	0.59
2:N:129:LYS:O	2:N:246:SER:HB3	2.02	0.59
2:N:134:VAL:HG12	2:N:135:MET:N	2.16	0.59
5:P:13:PHE:CD1	5:P:14:SER:N	2.71	0.59
5:P:41:VAL:H	5:P:43:PRO:HD3	1.68	0.59
5:Q:8:PHE:HD2	5:R:28:ARG:HD3	1.67	0.59
5:Q:126:ARG:HA	5:Q:129:GLN:HE21	1.68	0.59
5:R:39:ARG:HE	5:R:41:VAL:HG21	1.67	0.59
1:A:714:LEU:HD21	1:A:910:MET:HE2	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:138:LYS:CG	1:B:149:GLN:HB3	2.26	0.59
1:B:620:PHE:CE1	1:C:880:MET:HE3	2.38	0.59
1:B:667:ILE:HD11	1:B:920:PHE:CE2	2.35	0.59
1:C:537:HIS:C	1:C:539:ARG:H	2.04	0.59
1:D:49:THR:HB	1:E:884:ALA:HB3	1.85	0.59
1:D:151:LYS:HE2	1:D:218:LYS:HD2	1.85	0.59
1:D:623:ALA:C	1:D:625:ASN:H	2.06	0.59
1:E:55:ASP:O	1:E:623:ALA:HB3	2.03	0.59
1:E:345:LEU:HD11	1:E:581:TYR:HD1	1.68	0.59
1:E:566:PHE:O	1:E:570:LYS:HB2	2.02	0.59
1:E:837:ARG:HH12	1:F:459:ALA:H	1.51	0.59
1:F:106:VAL:HG23	1:F:609:ARG:HH12	1.68	0.59
1:F:260:TYR:HD2	1:F:282:ILE:HG22	1.67	0.59
1:F:377:ARG:CB	1:F:791:MET:HE1	2.33	0.59
1:F:575:LEU:HB3	1:F:576:PRO:CD	2.28	0.59
1:G:107:LEU:CG	1:G:108:ASP:N	2.66	0.59
1:G:452:ILE:HA	1:H:159:VAL:H	1.68	0.59
1:G:474:TYR:O	1:G:478:ALA:HB3	2.02	0.59
1:H:269:PRO:HG2	1:H:277:TYR:HD2	1.62	0.59
1:H:641:GLN:HB3	1:H:643:PHE:CZ	2.37	0.59
1:I:261:PHE:HE1	1:I:283:LEU:HD12	1.67	0.59
1:I:546:ARG:HG2	1:I:546:ARG:O	2.03	0.59
1:I:620:PHE:CD1	1:I:621:PRO:HD2	2.38	0.59
1:J:588:ASP:O	1:J:592:ILE:CG1	2.51	0.59
1:J:731:TRP:NE1	1:J:732:PRO:HD3	2.17	0.59
1:J:860:THR:CG2	1:L:557:PRO:HD2	2.33	0.59
1:K:324:ILE:HG12	1:K:595:SER:HB3	1.83	0.59
1:K:509:VAL:O	1:K:511:PRO:HD3	2.02	0.59
1:K:596:SER:O	1:K:598:GLY:N	2.36	0.59
1:L:196:GLU:N	1:L:196:GLU:OE1	2.36	0.59
1:L:199:VAL:HG12	1:L:206:GLU:CG	1.85	0.59
1:L:246:ASN:HD22	1:L:251:PRO:HA	1.66	0.59
1:L:321:PRO:HG2	1:L:538:PRO:HB3	1.85	0.59
1:L:368:GLN:HE22	1:L:377:ARG:HH12	1.50	0.59
1:L:667:ILE:CD1	1:L:920:PHE:CE2	2.84	0.59
2:N:39:ARG:NH1	2:N:518:THR:HB	2.18	0.59
2:N:373:LEU:HD12	2:N:373:LEU:C	2.22	0.59
5:P:15:PRO:HB3	5:R:15:PRO:CB	2.33	0.59
5:P:39:ARG:NE	5:P:41:VAL:HG21	2.12	0.59
5:R:46:SER:HB3	5:R:48:THR:N	2.16	0.59
6:V:96:LEU:HD22	6:V:100:ARG:HH21	1.67	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:10:TRP:HZ2	1:B:673:ALA:HB1	1.68	0.59
1:A:64:LEU:CB	1:B:736:ARG:O	2.49	0.59
1:A:166:ASN:O	1:A:173:LEU:HB3	2.03	0.59
1:A:381:PHE:CE1	1:B:795:PHE:CE1	2.91	0.59
1:B:187:ILE:CB	1:B:191:LYS:HB3	2.33	0.59
1:B:199:VAL:HG12	1:B:200:GLY:N	2.17	0.59
1:B:330:PHE:O	1:B:332:GLY:N	2.35	0.59
1:B:738:LEU:CD2	1:B:754:TYR:HE2	2.14	0.59
1:C:94:LEU:HD13	1:C:619:PHE:CE2	2.37	0.59
1:C:167:ILE:CG1	1:C:280:ASP:OD2	2.51	0.59
1:C:324:ILE:CG2	1:C:325:GLY:H	2.14	0.59
1:D:73:ARG:HD2	1:D:80:TYR:OH	2.03	0.59
1:D:103:ILE:CG2	1:D:610:PHE:CD2	2.86	0.59
1:D:370:LEU:CD2	1:D:570:LYS:HE3	2.33	0.59
1:D:723:ILE:HB	1:D:730:SER:HB2	1.84	0.59
1:D:836:MET:CE	1:F:203:ASN:HB2	2.32	0.59
1:E:141:GLN:HE22	1:E:148:GLN:HB3	1.68	0.59
1:E:193:PHE:CE2	1:E:212:GLY:HA3	2.35	0.59
1:E:905:PHE:HZ	1:E:918:LEU:CD1	2.16	0.59
1:F:139:GLU:OE1	1:F:139:GLU:HA	2.02	0.59
1:F:680:PHE:HD1	1:F:871:TRP:HB2	1.68	0.59
1:F:791:MET:HG2	1:F:792:TYR:CE1	2.38	0.59
1:F:893:LEU:HD21	1:J:949:ASN:HA	1.83	0.59
1:G:438:SER:OG	1:G:438:SER:O	2.18	0.59
1:G:748:SER:O	1:G:749:VAL:HB	2.02	0.59
1:H:495:PRO:HG3	1:H:502:GLU:CB	2.33	0.59
1:I:74:GLU:HB3	1:I:81:LYS:HB3	1.85	0.59
1:I:92:ARG:HG2	1:I:92:ARG:O	2.03	0.59
1:I:527:ASP:N	1:I:528:PRO:HD2	2.17	0.59
1:I:665:ILE:CD1	1:I:918:LEU:CD2	2.80	0.59
1:I:776:ILE:CD1	1:I:776:ILE:H	2.15	0.59
1:J:31:PHE:CE2	1:K:630:LEU:CD2	2.85	0.59
1:J:191:LYS:HA	1:J:194:GLN:CG	2.32	0.59
1:J:403:VAL:HG23	1:J:405:ASP:HB3	1.85	0.59
1:J:476:ASN:O	1:J:480:TYR:CE2	2.56	0.59
1:J:685:THR:OG1	1:J:915:LEU:HD11	2.02	0.59
1:J:802:SER:HB2	1:J:861:GLN:O	2.03	0.59
1:K:202:GLU:CG	1:L:313:VAL:HG11	2.31	0.59
1:K:246:ASN:OD1	1:K:247:GLU:N	2.12	0.59
1:K:482:PRO:O	1:K:484:SER:N	2.36	0.59
1:K:517:TYR:CD1	1:K:517:TYR:C	2.76	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:71:VAL:O	1:L:72:ASP:HB3	2.03	0.59
1:L:154:THR:HG22	1:L:155:LYS:CD	2.33	0.59
1:L:198:GLN:C	1:L:200:GLY:N	2.54	0.59
1:L:233:THR:OG1	1:L:240:ALA:HA	2.02	0.59
1:L:476:ASN:CG	1:L:539:ARG:HD2	2.24	0.59
1:L:591:MET:HE1	1:L:689:PRO:CG	2.33	0.59
1:L:715:ASN:C	1:L:715:ASN:HD22	2.04	0.59
1:L:792:TYR:CE1	1:L:868:ARG:HD3	2.38	0.59
1:L:870:MET:O	1:L:871:TRP:C	2.41	0.59
4:M:9:ALA:CB	4:M:121:ARG:HG3	2.33	0.59
4:M:350:GLU:N	4:M:351:PRO:HD2	2.16	0.59
5:P:42:LEU:O	5:P:42:LEU:CD2	2.49	0.59
7:5:16:ARG:CZ	7:5:21:THR:HG23	2.33	0.59
1:A:73:ARG:CZ	1:A:80:TYR:CE1	2.86	0.58
1:A:290:LEU:CD1	1:B:843:PRO:HB3	2.33	0.58
1:A:381:PHE:HE1	1:B:795:PHE:CE1	2.19	0.58
1:A:880:MET:HE2	1:A:880:MET:HA	1.85	0.58
1:B:97:ALA:CA	1:B:570:LYS:O	2.50	0.58
1:B:327:ARG:NH2	1:B:705:ILE:HD12	2.18	0.58
1:B:474:TYR:O	1:B:478:ALA:HB3	2.02	0.58
1:B:566:PHE:CE2	1:B:568:ALA:HB3	2.38	0.58
1:C:134:GLN:CB	1:C:154:THR:HG23	2.22	0.58
1:C:649:ALA:HB2	1:C:919:LEU:HD12	1.84	0.58
1:D:312:LEU:HB3	1:F:204:TRP:CZ2	2.37	0.58
1:E:419:THR:O	1:E:419:THR:HG23	2.01	0.58
1:E:589:VAL:O	1:E:593:LEU:HD12	2.03	0.58
1:E:680:PHE:N	1:E:680:PHE:CD1	2.71	0.58
1:F:705:ILE:O	1:F:705:ILE:HG13	2.03	0.58
1:F:745:ILE:HD11	1:F:765:TRP:CE2	2.37	0.58
1:G:729:VAL:CG2	1:G:730:SER:N	2.66	0.58
1:G:853:GLN:HA	1:I:554:ARG:NH1	2.17	0.58
1:H:24:LEU:HD12	7:5:9:LEU:HD21	1.84	0.58
1:H:107:LEU:HD11	1:H:593:LEU:HD21	1.85	0.58
1:H:723:ILE:CG2	1:H:731:TRP:HB3	2.33	0.58
1:I:277:TYR:N	1:I:277:TYR:CD2	2.70	0.58
1:J:64:LEU:HD11	1:J:621:PRO:HG3	1.85	0.58
1:J:276:GLU:O	1:L:440:TRP:CH2	2.56	0.58
1:J:545:TYR:C	1:J:547:SER:H	2.04	0.58
1:K:35:THR:HG22	7:8:24:GLU:CG	2.33	0.58
1:K:364:GLU:OE2	1:K:364:GLU:CA	2.34	0.58
1:K:569:ILE:O	1:K:572:LEU:CD2	2.51	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:88:VAL:HG22	1:L:576:PRO:HA	1.85	0.58
1:L:517:TYR:CD1	1:L:847:PRO:HG3	2.38	0.58
2:N:171:THR:O	2:N:174:ILE:HG22	2.02	0.58
2:N:244:THR:OG1	2:N:263:GLY:HA2	2.03	0.58
6:V:10:MET:CE	6:V:194:PRO:HB3	2.33	0.58
6:V:69:LEU:O	6:V:211:GLU:HG3	2.02	0.58
1:A:124:LEU:H	1:B:825:ASN:ND2	2.02	0.58
1:A:148:GLN:O	1:A:150:GLU:OE1	2.20	0.58
1:A:263:VAL:HG22	1:C:423:TYR:CE2	2.38	0.58
1:A:431:GLY:C	1:A:437:GLU:OE1	2.41	0.58
1:A:853:GLN:HG3	1:A:854:THR:HG23	1.85	0.58
1:B:198:GLN:CG	1:C:838:GLN:O	2.48	0.58
1:B:296:HIS:O	1:B:316:SER:CB	2.43	0.58
1:B:348:GLN:HE21	1:B:348:GLN:HA	1.68	0.58
1:B:582:GLU:O	1:B:582:GLU:CG	2.41	0.58
1:B:653:LEU:CD2	1:B:915:LEU:HD13	2.33	0.58
1:B:674:ALA:HA	1:B:889:GLY:O	2.03	0.58
1:C:560:ILE:HD12	1:C:562:VAL:CG2	2.30	0.58
1:D:249:GLU:HG3	1:D:250:GLN:N	2.11	0.58
1:D:905:PHE:CG	1:D:916:LEU:HD21	2.38	0.58
1:E:345:LEU:HD13	1:E:581:TYR:CE1	2.36	0.58
1:E:422:THR:HG23	1:E:449:GLN:HB3	1.85	0.58
1:F:626:THR:HG23	1:F:627:ALA:N	2.18	0.58
1:F:922:VAL:HG12	1:F:944:PRO:HG2	1.85	0.58
1:F:943:THR:HB	1:F:944:PRO:HD3	1.85	0.58
1:G:298:VAL:HG12	1:G:299:TYR:N	2.18	0.58
1:G:380:TYR:CD1	1:G:387:ALA:HB2	2.38	0.58
1:G:522:ALA:HB2	1:I:552:ASN:HB3	1.84	0.58
1:G:811:TYR:CD1	1:G:857:PRO:HD2	2.38	0.58
1:H:328:ASP:OD2	1:H:329:ASN:N	2.35	0.58
1:H:339:THR:HG21	1:J:740:PRO:HB2	1.84	0.58
1:H:575:LEU:HD23	1:H:930:GLN:OE1	2.03	0.58
1:I:685:THR:CG2	1:I:913:PRO:O	2.51	0.58
1:I:686:LYS:HG2	1:I:686:LYS:O	2.03	0.58
1:J:679:SER:O	1:J:919:LEU:CD2	2.48	0.58
1:J:685:THR:HG21	1:J:913:PRO:CB	2.17	0.58
1:K:209:ALA:HB1	1:K:210:PHE:CE1	2.38	0.58
1:K:224:PRO:HG2	1:K:316:SER:OG	2.03	0.58
1:K:572:LEU:HA	1:K:643:PHE:HZ	1.68	0.58
1:K:683:LEU:N	1:K:683:LEU:CD1	2.67	0.58
1:K:818:THR:HG22	1:K:819:LEU:N	2.16	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:850:LEU:C	1:K:855:ALA:HB1	2.23	0.58
1:L:719:LYS:HB2	1:L:906:GLU:HG3	1.84	0.58
1:L:827:GLY:HA3	1:L:840:GLN:C	2.23	0.58
2:N:147:THR:HG22	2:N:147:THR:O	2.03	0.58
2:N:292:VAL:HG22	2:N:326:VAL:CG2	2.30	0.58
2:N:392:LEU:HD12	2:N:483:ILE:HD13	1.83	0.58
5:P:35:THR:HA	5:P:43:PRO:HD2	1.85	0.58
5:S:95:ILE:C	5:S:96:ILE:HD12	2.21	0.58
6:U:80:TYR:N	6:U:80:TYR:HD1	2.01	0.58
6:V:226:TYR:O	6:V:227:ASP:HB3	2.03	0.58
7:3:26:GLY:C	7:3:28:SER:N	2.55	0.58
7:5:16:ARG:HD3	7:5:21:THR:HG23	1.84	0.58
1:A:379:ARG:HH11	1:B:796:ARG:NH1	2.00	0.58
1:A:449:GLN:HG3	1:B:153:VAL:HG12	1.84	0.58
1:A:730:SER:CB	1:A:732:PRO:HD2	2.32	0.58
1:B:89:GLY:HA3	1:B:92:ARG:HE	1.68	0.58
1:B:233:THR:OG1	1:B:240:ALA:HA	2.02	0.58
1:B:328:ASP:CB	1:B:546:ARG:NH1	2.63	0.58
1:B:391:TYR:CD2	1:B:534:PRO:CB	2.86	0.58
1:B:677:GLY:O	1:B:921:GLU:HG2	2.03	0.58
1:B:719:LYS:HA	1:B:745:ILE:O	2.03	0.58
1:B:923:PHE:HD1	1:B:943:THR:HG21	1.67	0.58
1:C:46:ARG:HB3	1:C:46:ARG:CZ	2.34	0.58
1:C:262:ASP:OD1	1:C:263:VAL:N	2.36	0.58
1:C:529:MET:O	1:C:529:MET:CG	2.37	0.58
1:D:498:THR:HG22	1:D:498:THR:O	2.01	0.58
1:E:486:LYS:HB3	1:E:509:VAL:HG13	1.84	0.58
1:E:566:PHE:HE2	1:E:568:ALA:HB3	1.68	0.58
1:E:670:ARG:HB2	1:E:670:ARG:HH11	1.65	0.58
1:E:756:VAL:HG21	1:E:763:LYS:HA	1.85	0.58
1:F:190:ASP:CG	1:F:191:LYS:N	2.56	0.58
1:F:731:TRP:HE1	1:F:888:LEU:HD21	1.67	0.58
1:F:845:ASN:O	1:F:845:ASN:CG	2.38	0.58
1:F:950:ALA:HB3	1:H:893:LEU:HD12	0.72	0.58
1:G:323:TYR:N	1:G:323:TYR:CD2	2.71	0.58
1:H:61:SER:HB2	1:I:734:ASN:HD22	1.66	0.58
1:H:510:ALA:CA	1:H:832:LEU:O	2.36	0.58
1:I:154:THR:HG22	1:I:155:LYS:CD	2.33	0.58
1:I:442:LYS:HG2	1:I:443:ASP:H	1.68	0.58
1:I:487:TYR:C	1:I:507:ARG:HH21	2.05	0.58
1:J:52:PRO:CB	7:9:23:ASN:O	2.52	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:134:GLN:NE2	1:J:151:LYS:HD3	2.18	0.58
1:J:162:THR:CG2	1:J:193:PHE:HD2	1.73	0.58
1:J:267:SER:CB	1:J:268:PRO:CD	2.80	0.58
1:J:330:PHE:HE1	1:J:385:ASN:HB2	1.62	0.58
1:J:831:TYR:HE2	1:J:832:LEU:HD12	1.66	0.58
1:K:100:TYR:CE1	1:K:561:GLN:HG2	2.38	0.58
1:K:190:ASP:OD1	1:K:191:LYS:N	2.36	0.58
1:K:445:ALA:H	1:K:449:GLN:NE2	2.00	0.58
1:L:74:GLU:CG	1:L:81:LYS:O	2.51	0.58
1:L:345:LEU:O	1:L:345:LEU:HD22	2.03	0.58
1:L:397:ILE:HG21	1:L:523:ARG:NH2	2.19	0.58
1:L:676:ARG:HB3	1:L:921:GLU:HB3	1.85	0.58
2:N:74:ASP:O	2:N:76:SER:N	2.36	0.58
5:Q:35:THR:CA	5:Q:40:PRO:HA	2.28	0.58
6:U:31:MET:HE2	6:U:44:VAL:HG23	1.84	0.58
1:A:69:VAL:CG1	1:A:70:PRO:HD2	2.33	0.58
1:B:46:ARG:CD	1:C:644:ASN:HD21	2.17	0.58
1:B:327:ARG:NH1	1:B:703:GLY:O	2.37	0.58
1:B:641:GLN:O	1:B:928:VAL:HG22	2.03	0.58
1:B:724:MET:HG3	1:B:725:PHE:N	2.18	0.58
1:B:877:SER:OG	1:B:887:ASP:HB3	2.02	0.58
1:C:50:VAL:HG23	7:1:22:TRP:HD1	1.67	0.58
1:C:310:ILE:O	1:C:313:VAL:HG23	2.02	0.58
1:C:587:LYS:HD2	1:C:608:VAL:O	2.03	0.58
1:D:203:ASN:HB2	1:E:836:MET:SD	2.43	0.58
1:D:395:VAL:HG23	1:D:476:ASN:HB3	1.85	0.58
1:D:589:VAL:HG21	1:D:605:GLY:O	2.03	0.58
1:E:32:ALA:CB	1:E:41:LEU:HD21	2.32	0.58
1:E:166:ASN:O	1:E:172:LEU:O	2.21	0.58
1:E:222:MET:O	1:E:222:MET:CG	2.50	0.58
1:E:275:GLU:N	1:E:276:GLU:OE1	2.33	0.58
1:E:429:THR:O	1:E:429:THR:CG2	2.45	0.58
1:E:566:PHE:CE2	1:E:568:ALA:HB3	2.39	0.58
1:F:188:TYR:HB2	1:F:192:THR:HG1	1.68	0.58
1:F:726:ASP:CG	1:J:670:ARG:HH11	2.07	0.58
1:G:8:PRO:O	1:G:12:TYR:HB2	2.03	0.58
1:G:49:THR:CG2	7:6:21:THR:HB	2.33	0.58
1:G:140:LYS:HG2	1:G:147:VAL:CG2	2.32	0.58
1:G:276:GLU:CB	1:I:440:TRP:CE2	2.84	0.58
1:G:417:THR:HG23	1:G:419:THR:HB	1.85	0.58
1:G:713:TYR:CE1	1:G:714:LEU:HB2	2.39	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:729:VAL:CG1	1:G:733:GLY:HA2	2.32	0.58
1:G:808:GLU:HG3	1:G:814:TYR:CD2	2.37	0.58
1:H:305:ASP:O	1:H:305:ASP:CG	2.42	0.58
1:H:517:TYR:HA	1:H:520:ILE:HG23	1.84	0.58
1:H:747:ARG:CB	1:H:762:THR:CG2	2.76	0.58
1:I:593:LEU:HD12	1:I:593:LEU:O	2.03	0.58
1:J:35:THR:O	1:J:39:PHE:O	2.21	0.58
1:J:111:PRO:HD3	1:J:604:ASP:O	2.03	0.58
1:J:278:LYS:HZ1	1:L:428:ILE:HG22	1.66	0.58
1:J:508:VAL:CG2	1:J:834:PRO:HD2	2.32	0.58
1:J:636:ASN:CG	1:J:637:ASP:H	2.07	0.58
1:J:644:ASN:HB3	1:L:46:ARG:NH1	2.17	0.58
1:J:724:MET:CE	5:Q:20:ARG:HH12	2.16	0.58
1:J:831:TYR:CE2	1:J:832:LEU:CD1	2.86	0.58
1:K:291:GLU:OE2	1:L:854:THR:HG21	2.03	0.58
1:K:911:ASP:O	1:K:912:GLU:HG3	2.03	0.58
1:L:412:PHE:HB3	1:L:413:PRO:HD2	1.86	0.58
1:L:776:ILE:CG2	1:L:781:PHE:HA	2.34	0.58
2:N:325:LYS:HA	3:O:7:VAL:O	2.04	0.58
4:M:155:GLY:C	4:M:156:GLN:HG2	2.24	0.58
4:M:156:GLN:HG3	4:M:211:GLY:CA	2.28	0.58
5:P:35:THR:OG1	5:P:40:PRO:HA	2.01	0.58
5:S:34:SER:O	5:S:43:PRO:HB2	2.03	0.58
7:4:15:THR:O	7:4:16:ARG:HG3	2.04	0.58
1:A:150:GLU:CG	1:C:443:ASP:HA	2.33	0.58
1:A:277:TYR:OH	1:A:279:ALA:CB	2.51	0.58
1:A:552:ASN:CB	1:B:522:ALA:HB2	2.29	0.58
1:A:813:ASP:OD1	1:A:813:ASP:C	2.39	0.58
1:B:116:TYR:CD1	1:B:116:TYR:C	2.77	0.58
1:B:234:ASN:OD1	1:B:238:GLY:HA3	2.04	0.58
1:B:779:GLN:NE2	1:C:39:PHE:CD1	2.68	0.58
1:B:942:ARG:NH2	2:N:95:THR:HG23	2.18	0.58
1:C:290:LEU:O	1:C:290:LEU:HG	2.03	0.58
1:C:335:TYR:CE1	1:C:586:ARG:NH1	2.72	0.58
1:D:121:TYR:CE2	1:E:847:PRO:O	2.56	0.58
1:D:145:GLY:O	1:D:146:GLY:O	2.20	0.58
1:D:723:ILE:HB	1:D:730:SER:CB	2.34	0.58
1:E:23:TYR:C	1:E:23:TYR:HD1	2.05	0.58
1:E:681:THR:HG21	1:E:712:PHE:CG	2.37	0.58
1:F:201:GLU:HG2	1:F:202:GLU:N	2.17	0.58
1:F:214:ARG:NH1	1:F:241:LYS:HE3	2.14	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:242:PHE:HE2	1:F:289:ASN:ND2	1.93	0.58
1:F:320:ARG:NH1	1:F:597:LEU:HD11	2.01	0.58
1:F:833:ALA:HB1	1:F:834:PRO:HD2	1.85	0.58
1:G:443:ASP:O	1:G:444:ASP:O	2.21	0.58
1:G:661:THR:O	1:G:907:VAL:O	2.20	0.58
1:G:687:GLU:HB2	1:G:701:TYR:CD2	2.39	0.58
1:G:731:TRP:CH2	1:G:876:SER:O	2.56	0.58
1:H:134:GLN:CB	1:H:154:THR:O	2.50	0.58
1:H:190:ASP:CG	1:H:191:LYS:N	2.57	0.58
1:H:198:GLN:OE1	1:I:839:GLY:HA2	2.02	0.58
1:H:651:ASN:HB3	1:H:919:LEU:HG	1.84	0.58
1:H:696:ASP:HB3	5:Q:25:ALA:HB2	1.85	0.58
1:I:192:THR:HB	1:I:214:ARG:HD2	1.85	0.58
1:J:4:PRO:CG	4:M:295:LEU:CD1	2.80	0.58
1:J:446:ILE:CG2	1:J:447:SER:N	2.33	0.58
1:K:494:LEU:HD22	1:K:503:TYR:HA	1.85	0.58
1:L:377:ARG:CB	1:L:388:VAL:HG21	2.23	0.58
1:L:759:CYS:HB3	1:L:800:PRO:HB3	1.84	0.58
1:L:842:TYR:CE2	1:L:843:PRO:HD2	2.38	0.58
2:N:431:SER:CA	2:N:434:ILE:HG22	2.32	0.58
4:M:159:TYR:CD1	4:M:210:TRP:NE1	2.72	0.58
5:S:67:ALA:HA	5:S:70:ALA:HB3	1.86	0.58
6:V:10:MET:HE3	6:V:10:MET:CA	2.12	0.58
6:V:68:LYS:HE3	6:V:71:PRO:HA	1.85	0.58
1:A:416:GLY:O	1:A:457:VAL:HG13	2.03	0.58
1:A:718:PHE:HB3	1:A:745:ILE:HG13	1.86	0.58
1:B:214:ARG:NH2	1:B:241:LYS:CE	2.63	0.58
1:B:445:ALA:H	1:C:152:ASP:HA	1.68	0.58
1:B:808:GLU:HG3	1:B:814:TYR:CG	2.38	0.58
1:E:6:MET:CE	1:E:6:MET:O	2.52	0.58
1:E:80:TYR:O	1:E:585:PHE:N	2.30	0.58
1:E:196:GLU:HG3	1:F:831:TYR:CE1	2.38	0.58
1:E:338:SER:C	1:E:340:GLY:N	2.55	0.58
1:E:581:TYR:O	1:E:582:GLU:HB3	2.03	0.58
1:E:614:ASN:ND2	1:E:614:ASN:N	2.50	0.58
1:G:269:PRO:CA	1:G:274:GLY:O	2.48	0.58
1:H:20:ALA:O	1:H:24:LEU:HG	2.03	0.58
1:H:257:ASP:OD1	1:H:285:THR:CG2	2.52	0.58
1:H:707:TYR:C	1:H:709:ASP:H	2.06	0.58
1:I:262:ASP:OD2	1:I:279:ALA:N	2.36	0.58
1:I:359:GLN:O	1:I:359:GLN:HG3	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:761:MET:HG3	1:I:761:MET:O	2.03	0.58
1:I:831:TYR:CZ	1:I:832:LEU:HD11	2.38	0.58
1:J:108:ASP:O	1:J:108:ASP:CG	2.42	0.58
1:J:419:THR:O	1:J:420:ASN:OD1	2.21	0.58
1:J:489:PRO:HD3	1:J:508:VAL:HG12	1.85	0.58
1:J:798:PHE:HA	1:J:866:CYS:HB2	1.85	0.58
1:K:638:THR:CG2	1:K:639:HIS:N	2.66	0.58
1:K:682:ARG:NH1	1:K:907:VAL:HG11	2.18	0.58
1:L:166:ASN:HA	1:L:210:PHE:CE1	2.38	0.58
1:L:361:ARG:HE	1:L:567:PHE:HE2	1.52	0.58
1:L:422:THR:CA	1:L:450:ASN:O	2.52	0.58
1:L:531:ASN:O	1:L:713:TYR:CE1	2.53	0.58
2:N:124:TYR:HE2	2:N:499:CYS:HG	1.51	0.58
2:N:202:LYS:CE	2:N:204:ASP:CG	2.53	0.58
2:N:362:ASP:OD1	2:N:363:PRO:HD2	2.04	0.58
4:M:108:ASN:C	4:M:110:GLN:H	2.07	0.58
4:M:209:LEU:HA	4:M:212:VAL:CG2	2.34	0.58
5:R:35:THR:O	5:R:36:VAL:C	2.33	0.58
7:5:9:LEU:O	7:5:9:LEU:HG	2.02	0.58
1:A:62:GLN:HE21	1:A:621:PRO:HA	1.68	0.58
1:A:193:PHE:CZ	1:A:214:ARG:CB	2.86	0.58
1:B:201:GLU:O	1:C:836:MET:CE	2.52	0.58
1:B:320:ARG:CZ	1:B:597:LEU:HD11	2.33	0.58
1:B:324:ILE:HD11	1:B:595:SER:CA	2.32	0.58
1:C:107:LEU:HB3	1:C:558:PHE:CE2	2.38	0.58
1:C:110:GLY:HA2	1:C:554:ARG:NH2	2.18	0.58
1:C:410:TYR:HA	1:C:461:GLU:HB3	1.86	0.58
1:C:705:ILE:O	1:C:709:ASP:HB3	2.04	0.58
1:D:135:TRP:HZ3	1:D:137:THR:HB	1.68	0.58
1:D:157:PHE:HZ	1:F:415:ASN:ND2	2.01	0.58
1:D:533:ASN:HD22	1:D:536:ASN:HD21	1.51	0.58
1:D:735:ASP:OD1	1:F:63:ARG:HA	2.02	0.58
1:D:828:PHE:HB3	1:E:412:PHE:CZ	2.38	0.58
1:E:59:ASP:OD1	1:E:60:ARG:N	2.37	0.58
1:E:193:PHE:CD1	1:E:213:GLY:N	2.68	0.58
1:E:298:VAL:HG23	1:E:317:MET:H	1.68	0.58
1:E:561:GLN:N	1:E:561:GLN:OE1	2.37	0.58
1:E:791:MET:CG	1:E:868:ARG:NH2	2.66	0.58
1:F:657:PRO:HG3	5:Q:13:PHE:CZ	2.34	0.58
1:G:28:LEU:HG	1:H:639:HIS:CD2	2.38	0.58
1:G:194:GLN:C	1:G:197:PRO:HD2	2.24	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:575:LEU:HB3	1:G:635:ARG:NH2	2.19	0.58
1:G:618:THR:HG22	1:G:618:THR:O	2.03	0.58
1:G:730:SER:CB	1:G:732:PRO:HD2	2.34	0.58
1:H:214:ARG:NH1	1:H:214:ARG:HG2	2.19	0.58
1:H:662:ASN:HD22	1:H:662:ASN:C	2.05	0.58
1:H:752:GLU:OE2	1:H:754:TYR:HE1	1.85	0.58
1:H:859:VAL:HG22	1:H:860:THR:H	1.68	0.58
1:H:885:LEU:HG	1:H:890:GLN:NE2	2.18	0.58
1:I:20:ALA:HA	1:I:23:TYR:CE2	2.39	0.58
1:J:153:VAL:O	1:J:153:VAL:HG12	2.03	0.58
1:J:836:MET:CE	1:L:200:GLY:O	2.51	0.58
1:K:133:SER:O	1:K:155:LYS:CA	2.51	0.58
1:K:147:VAL:HG12	1:K:147:VAL:O	2.03	0.58
1:K:194:GLN:HG3	1:K:197:PRO:HG3	1.84	0.58
1:K:199:VAL:O	1:K:199:VAL:CG1	2.49	0.58
1:K:385:ASN:HD21	1:K:546:ARG:CG	2.17	0.58
1:K:485:TYR:N	1:K:485:TYR:CD2	2.71	0.58
1:K:720:LYS:HE3	1:K:742:GLU:OE2	2.02	0.58
1:K:927:ARG:CB	1:K:939:VAL:HG22	2.19	0.58
1:L:660:ALA:HB2	5:Q:99:GLU:HB3	1.86	0.58
1:L:720:LYS:HA	1:L:743:PHE:O	2.03	0.58
1:L:720:LYS:NZ	1:L:742:GLU:OE2	2.36	0.58
1:L:831:TYR:CE2	1:L:832:LEU:HD12	2.37	0.58
2:N:112:THR:HG21	2:N:387:TRP:NE1	2.19	0.58
2:N:112:THR:HG22	2:N:474:HIS:HE1	1.68	0.58
2:N:138:ARG:NH1	2:N:195:LEU:HD13	2.18	0.58
2:N:385:VAL:HG12	2:N:386:TYR:H	1.68	0.58
5:P:18:THR:CG2	5:P:19:THR:H	2.16	0.58
6:U:168:TYR:CA	7:1:31:ASN:HB3	2.33	0.58
1:A:439:GLU:O	1:A:440:TRP:CG	2.54	0.58
1:A:445:ALA:HB1	1:B:139:GLU:OE2	2.03	0.58
1:A:864:PHE:CG	1:A:864:PHE:O	2.57	0.58
1:B:575:LEU:HD13	1:B:631:GLU:HG2	1.86	0.58
1:C:65:THR:HA	1:C:617:ALA:O	2.04	0.58
1:F:193:PHE:CE2	1:F:212:GLY:HA3	2.38	0.58
1:F:196:GLU:H	1:F:197:PRO:HD2	1.69	0.58
1:F:413:PRO:HD3	1:F:458:TYR:O	2.03	0.58
1:F:575:LEU:HD13	1:F:635:ARG:HD2	1.86	0.58
1:G:130:PRO:HD2	1:I:415:ASN:O	2.04	0.58
1:G:161:ALA:HB3	1:G:198:GLN:HG3	1.84	0.58
1:G:553:GLY:HA3	1:H:804:GLN:OE1	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:922:VAL:HG21	1:G:942:ARG:HG2	1.86	0.58
1:H:162:THR:HG23	1:H:193:PHE:CD1	2.38	0.58
1:H:282:ILE:CG1	1:H:283:LEU:N	2.66	0.58
1:H:391:TYR:C	1:H:391:TYR:HD1	2.07	0.58
1:H:908:ASP:OD1	1:H:909:PRO:HD2	2.03	0.58
1:I:943:THR:CG2	1:I:944:PRO:CD	2.74	0.58
1:K:371:LEU:CD2	1:K:377:ARG:NH2	2.50	0.58
1:L:257:ASP:N	1:L:257:ASP:OD2	2.36	0.58
1:L:347:GLY:HA2	1:L:579:TYR:HD1	1.69	0.58
1:L:561:GLN:N	1:L:561:GLN:HE21	2.02	0.58
1:L:647:LEU:HA	7:8:4:ILE:HG23	1.83	0.58
5:P:122:VAL:HG12	5:P:126:ARG:NH1	2.17	0.58
7:5:15:THR:O	7:5:16:ARG:HG2	2.04	0.58
1:A:50:VAL:CG1	1:B:890:GLN:HE22	2.16	0.58
1:A:214:ARG:HH22	1:A:241:LYS:CE	2.17	0.58
1:B:77:THR:CG2	1:B:78:TYR:HD2	2.17	0.58
1:B:134:GLN:CD	1:B:151:LYS:HE3	2.22	0.58
1:B:241:LYS:HZ3	1:B:256:ILE:HD13	1.69	0.58
1:B:318:PRO:HG2	1:C:406:GLU:HG3	1.85	0.58
1:B:822:GLN:HB2	1:B:846:PHE:HB2	1.86	0.58
1:B:859:VAL:HG22	1:B:860:THR:H	1.68	0.58
1:C:89:GLY:HA2	1:E:351:GLN:HB2	1.86	0.58
1:D:231:ARG:HG2	1:D:232:PRO:HD2	1.86	0.58
1:E:741:ASN:ND2	1:E:742:GLU:HG3	2.17	0.58
1:F:20:ALA:C	7:4:9:LEU:CD1	2.71	0.58
1:F:589:VAL:HG23	1:F:593:LEU:HD12	1.86	0.58
1:F:710:GLY:O	1:F:712:PHE:HE2	1.78	0.58
1:F:745:ILE:HG12	1:F:765:TRP:CG	2.39	0.58
1:F:882:MET:CB	7:3:23:ASN:ND2	2.67	0.58
1:G:156:THR:CG2	1:I:451:GLN:NE2	2.66	0.58
1:G:166:ASN:O	1:G:173:LEU:HD23	2.03	0.58
1:G:286:GLU:CD	1:G:286:GLU:N	2.52	0.58
1:G:556:VAL:O	1:G:556:VAL:HG23	2.04	0.58
1:G:566:PHE:O	1:G:570:LYS:HG2	2.04	0.58
1:H:64:LEU:CD1	1:I:736:ARG:HD2	2.33	0.58
1:H:397:ILE:HD12	1:H:523:ARG:NH2	2.16	0.58
1:H:397:ILE:HG21	1:H:801:MET:HE2	1.84	0.58
1:H:846:PHE:CB	1:H:847:PRO:CD	2.81	0.58
1:I:103:ILE:CG2	1:I:610:PHE:HD2	2.13	0.58
1:I:134:GLN:NE2	1:I:217:LYS:HA	2.18	0.58
1:I:427:LYS:HD3	1:I:442:LYS:HD2	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:543:LEU:CA	1:I:546:ARG:HH21	2.17	0.58
1:J:24:LEU:HG	1:K:639:HIS:HB2	1.85	0.58
1:J:76:THR:HG22	1:J:77:THR:H	1.69	0.58
1:J:188:TYR:CD1	1:J:256:ILE:HD13	2.39	0.58
1:J:242:PHE:CE1	1:J:289:ASN:N	2.69	0.58
1:J:377:ARG:CZ	1:J:388:VAL:HG13	2.34	0.58
1:J:664:PRO:CD	5:P:12:LEU:CD2	2.82	0.58
1:K:5:SER:HA	6:V:185:THR:HB	1.85	0.58
1:K:73:ARG:HH12	1:K:612:SER:HB3	1.68	0.58
1:K:81:LYS:HA	1:K:584:ASN:CA	2.33	0.58
1:K:109:ARG:HD2	1:K:324:ILE:HB	1.85	0.58
1:K:162:THR:OG1	1:K:193:PHE:CD2	2.49	0.58
1:K:198:GLN:HG2	1:K:199:VAL:N	2.19	0.58
1:K:517:TYR:CE2	1:K:824:ASN:ND2	2.71	0.58
1:L:229:PHE:O	1:L:229:PHE:CD2	2.57	0.58
2:N:271:LEU:HD22	2:N:354:TRP:HA	1.86	0.58
5:P:35:THR:HG22	5:P:36:VAL:C	2.20	0.58
5:R:82:MET:SD	5:R:88:SER:O	2.61	0.58
5:S:28:ARG:O	5:S:31:VAL:HG23	2.04	0.58
6:V:210:ASP:C	6:V:212:PHE:N	2.57	0.58
7:2:3:ASP:O	7:2:3:ASP:CG	2.41	0.58
7:4:10:ALA:N	7:4:11:PRO:HD3	2.18	0.58
1:A:270:ALA:HB1	1:C:436:GLU:OE1	2.04	0.58
1:A:344:VAL:HG23	1:A:353:ASN:CG	2.24	0.58
1:A:409:ASN:HB2	1:C:467:ASN:ND2	2.18	0.58
1:A:428:ILE:HA	1:A:437:GLU:O	2.04	0.58
1:B:330:PHE:CE2	1:B:561:GLN:O	2.57	0.58
1:B:543:LEU:C	1:B:545:TYR:H	2.06	0.58
1:C:111:PRO:HD3	1:C:554:ARG:NH2	2.19	0.58
1:C:134:GLN:HB2	1:C:155:LYS:H	1.68	0.58
1:C:380:TYR:CD1	1:C:387:ALA:HB1	2.38	0.58
1:D:262:ASP:HA	1:D:279:ALA:HB1	1.85	0.58
1:D:331:VAL:HG23	1:D:331:VAL:O	2.04	0.58
1:D:759:CYS:HG	1:D:864:PHE:HB3	1.66	0.58
1:E:89:GLY:O	1:E:92:ARG:HG2	2.04	0.58
1:E:155:LYS:CD	1:E:261:PHE:CE1	2.86	0.58
1:E:235:GLU:C	1:E:237:GLY:H	2.07	0.58
1:E:296:HIS:O	1:E:316:SER:CB	2.52	0.58
1:E:775:ASN:HB3	1:E:880:MET:SD	2.44	0.58
1:F:198:GLN:C	1:F:200:GLY:H	2.04	0.58
1:F:513:LEU:HD13	1:F:819:LEU:HD21	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:79:LEU:CD1	1:H:79:LEU:H	2.15	0.58
1:H:353:ASN:ND2	1:H:353:ASN:C	2.56	0.58
1:H:942:ARG:HD3	1:H:945:PHE:O	2.04	0.58
1:I:776:ILE:HD12	1:I:776:ILE:N	2.18	0.58
1:I:864:PHE:CD1	1:I:865:LEU:N	2.72	0.58
1:J:31:PHE:HE2	1:K:630:LEU:CD2	2.17	0.58
1:J:93:VAL:HG23	1:J:93:VAL:O	2.04	0.58
1:J:409:ASN:HB2	1:L:467:ASN:HD21	1.68	0.58
1:J:495:PRO:HD3	1:J:502:GLU:OE2	2.04	0.58
1:J:669:SER:HA	1:J:899:HIS:O	2.04	0.58
1:J:736:ARG:O	1:J:737:LEU:HD12	2.03	0.58
1:K:63:ARG:CG	1:K:66:LEU:HD23	2.27	0.58
1:K:383:MET:HA	1:L:757:ALA:HA	1.86	0.58
1:L:93:VAL:HB	1:L:573:LEU:HD11	1.85	0.58
1:L:107:LEU:HD12	1:L:607:SER:CA	2.29	0.58
1:L:155:LYS:HZ2	1:L:259:ALA:HB3	1.67	0.58
1:L:465:GLN:OE1	1:L:465:GLN:CA	2.52	0.58
5:P:29:GLN:HE21	5:R:10:GLY:HA2	1.67	0.58
5:P:35:THR:CA	5:P:43:PRO:HG2	2.32	0.58
7:4:6:PHE:O	7:4:6:PHE:HD1	1.85	0.58
1:A:424:GLN:HB2	1:A:446:ILE:CA	2.33	0.57
1:A:424:GLN:OE1	1:A:446:ILE:HB	2.03	0.57
1:A:831:TYR:HB2	1:C:196:GLU:HB3	1.86	0.57
1:B:324:ILE:HD11	1:B:595:SER:OG	2.04	0.57
1:B:831:TYR:CD2	1:B:832:LEU:HD12	2.39	0.57
1:C:67:ARG:HD2	1:C:616:TYR:HE1	1.67	0.57
1:C:150:GLU:O	1:C:152:ASP:N	2.36	0.57
1:C:391:TYR:HB3	1:C:534:PRO:O	2.04	0.57
1:D:128:GLY:HA3	1:D:315:GLN:HG2	1.84	0.57
1:D:758:GLN:OE1	1:D:758:GLN:CA	2.52	0.57
1:D:892:MET:SD	1:F:3:THR:CG2	2.92	0.57
1:E:135:TRP:CH2	1:E:309:GLU:HG3	2.37	0.57
1:E:221:LYS:HD3	1:E:305:ASP:OD2	2.03	0.57
1:E:338:SER:O	1:E:340:GLY:N	2.37	0.57
1:F:338:SER:HB2	1:F:691:LEU:O	2.04	0.57
1:G:64:LEU:HD12	1:H:736:ARG:HD3	1.86	0.57
1:G:113:PHE:HB2	1:G:324:ILE:HD12	1.86	0.57
1:H:765:TRP:O	1:H:765:TRP:CG	2.56	0.57
1:I:155:LYS:CG	1:I:261:PHE:HZ	2.16	0.57
1:I:711:THR:HG23	1:I:711:THR:O	2.04	0.57
1:J:744:GLU:O	1:J:762:THR:CG2	2.52	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:88:VAL:HG12	1:K:576:PRO:HA	1.86	0.57
1:K:275:GLU:O	1:K:276:GLU:HB2	2.04	0.57
1:K:622:MET:HG2	1:K:627:ALA:HB2	1.84	0.57
1:L:19:ASP:HB2	1:L:47:ASN:CB	2.34	0.57
1:L:199:VAL:HG21	1:L:211:TYR:CE2	2.39	0.57
1:L:298:VAL:CG1	1:L:317:MET:H	2.17	0.57
1:L:573:LEU:HD23	1:L:634:LEU:HD21	1.86	0.57
4:M:173:VAL:O	4:M:173:VAL:HG12	2.04	0.57
5:P:15:PRO:CB	5:R:15:PRO:HD3	2.34	0.57
5:R:12:LEU:CD2	5:R:17:LEU:CD1	2.72	0.57
1:A:720:LYS:O	1:A:906:GLU:HG2	2.03	0.57
1:A:825:ASN:HA	1:C:122:ASN:HA	1.87	0.57
1:B:173:LEU:CD1	1:B:183:GLY:HA3	2.34	0.57
1:C:582:GLU:OE1	1:C:583:TRP:N	2.38	0.57
1:D:169:ASN:HB3	1:F:428:ILE:CD1	2.34	0.57
1:D:828:PHE:CZ	1:D:841:PRO:HG3	2.38	0.57
1:D:868:ARG:HH11	1:D:868:ARG:CB	2.18	0.57
1:E:188:TYR:HD1	1:E:256:ILE:CD1	2.17	0.57
1:E:641:GLN:NE2	1:E:641:GLN:N	2.50	0.57
1:E:676:ARG:HH22	7:3:5:ASN:N	2.01	0.57
1:F:634:LEU:O	1:F:634:LEU:CD2	2.35	0.57
1:G:161:ALA:HB1	1:G:198:GLN:HG3	1.83	0.57
1:G:445:ALA:CB	1:G:449:GLN:CB	2.79	0.57
1:G:460:MET:HG3	1:H:460:MET:HE1	1.85	0.57
1:G:526:LEU:C	1:G:528:PRO:HD2	2.23	0.57
1:G:771:LEU:HD13	1:G:777:GLY:HA3	1.86	0.57
1:H:141:GLN:HG2	1:H:148:GLN:HB3	1.85	0.57
1:H:162:THR:HG23	1:H:193:PHE:CE1	2.39	0.57
1:H:575:LEU:HB3	1:H:635:ARG:NH2	2.20	0.57
1:I:134:GLN:HE22	1:I:217:LYS:HG3	1.69	0.57
1:I:539:ARG:HG2	1:I:539:ARG:NH1	2.19	0.57
1:I:575:LEU:HD13	1:I:631:GLU:HG2	1.86	0.57
1:I:647:LEU:HA	7:5:4:ILE:CG2	2.33	0.57
1:I:880:MET:HA	1:I:880:MET:CE	2.33	0.57
1:I:880:MET:HG3	1:I:882:MET:HE1	1.86	0.57
1:J:121:TYR:HE2	1:K:847:PRO:O	1.87	0.57
1:J:414:LEU:HD12	1:K:837:ARG:CZ	2.33	0.57
1:J:482:PRO:HD3	1:J:529:MET:HB3	1.86	0.57
1:J:587:LYS:HD2	1:J:610:PHE:CE1	2.38	0.57
1:J:833:ALA:HB1	1:J:835:THR:HG23	1.85	0.57
1:K:647:LEU:HD21	1:K:649:ALA:HB3	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:713:TYR:HA	1:K:867:ASP:HB3	1.86	0.57
1:L:31:PHE:CD2	1:L:31:PHE:C	2.77	0.57
1:L:637:ASP:OD2	1:L:638:THR:N	2.37	0.57
1:L:648:SER:CB	1:L:922:VAL:O	2.52	0.57
1:L:831:TYR:CB	1:L:838:GLN:HE21	2.14	0.57
4:M:79:LEU:HB3	4:M:85:ILE:HD11	1.86	0.57
4:M:150:ALA:HA	4:M:159:TYR:HE2	1.68	0.57
4:M:385:ASN:OD1	4:M:386:PRO:CA	2.51	0.57
6:U:31:MET:CE	6:U:44:VAL:HG23	2.35	0.57
1:A:135:TRP:N	1:A:154:THR:OG1	2.33	0.57
1:A:589:VAL:HG21	1:A:605:GLY:O	2.05	0.57
1:A:719:LYS:HE2	1:A:908:ASP:HB3	1.85	0.57
1:A:730:SER:O	1:A:732:PRO:CD	2.51	0.57
1:B:35:THR:O	1:B:37:THR:N	2.38	0.57
1:B:409:ASN:O	1:B:461:GLU:CG	2.52	0.57
1:B:513:LEU:CD1	1:B:819:LEU:CD1	2.82	0.57
1:C:731:TRP:HE3	1:C:732:PRO:HD3	1.68	0.57
1:C:733:GLY:O	1:C:736:ARG:CG	2.51	0.57
1:D:445:ALA:HB1	1:D:449:GLN:N	2.15	0.57
1:D:509:VAL:HG12	1:D:510:ALA:N	2.17	0.57
1:E:116:TYR:CD1	1:E:116:TYR:N	2.61	0.57
1:E:428:ILE:HG21	1:F:169:ASN:HD21	0.76	0.57
1:E:587:LYS:HG3	1:E:608:VAL:CG2	2.35	0.57
1:E:804:GLN:HB2	1:E:850:LEU:HD13	1.85	0.57
1:F:427:LYS:HD2	1:F:442:LYS:HD2	1.86	0.57
1:F:865:LEU:O	1:F:865:LEU:HG	2.03	0.57
1:G:159:VAL:CB	1:H:840:GLN:HB2	2.34	0.57
1:G:839:GLY:HA2	1:I:198:GLN:CG	2.34	0.57
1:H:139:GLU:CD	1:H:152:ASP:OD2	2.43	0.57
1:H:445:ALA:O	1:H:449:GLN:CB	2.53	0.57
1:H:638:THR:HG23	1:H:639:HIS:N	2.18	0.57
1:H:663:VAL:HG23	5:Q:17:LEU:HD11	1.77	0.57
1:I:85:THR:HG22	1:I:85:THR:O	2.03	0.57
1:I:309:GLU:O	1:I:312:LEU:HB2	2.03	0.57
1:I:576:PRO:HD2	1:I:631:GLU:HG3	1.86	0.57
1:I:705:ILE:O	1:I:709:ASP:HB2	2.04	0.57
1:I:831:TYR:HB2	1:I:838:GLN:HE22	1.54	0.57
1:J:155:LYS:HZ1	1:J:285:THR:CB	2.03	0.57
1:J:276:GLU:C	1:L:440:TRP:HZ3	2.06	0.57
1:J:427:LYS:HB2	1:J:441:GLU:CB	2.32	0.57
1:K:80:TYR:O	1:K:584:ASN:CA	2.52	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:217:LYS:N	1:K:286:GLU:O	2.36	0.57
1:K:241:LYS:NZ	1:K:256:ILE:HG21	2.19	0.57
1:K:309:GLU:O	1:K:312:LEU:HB2	2.04	0.57
1:K:544:ARG:HG3	1:K:545:TYR:H	1.68	0.57
1:K:868:ARG:HH11	1:K:868:ARG:HG3	1.67	0.57
1:K:929:HIS:HB2	6:U:40:MET:HE3	1.85	0.57
1:L:157:PHE:CD1	1:L:312:LEU:HD21	2.39	0.57
1:L:193:PHE:O	1:L:194:GLN:C	2.42	0.57
1:L:566:PHE:CE1	1:L:568:ALA:HB3	2.39	0.57
1:L:718:PHE:C	1:L:745:ILE:CG2	2.66	0.57
2:N:137:SER:O	2:N:155:GLU:HB2	2.05	0.57
2:N:202:LYS:CE	2:N:454:CYS:O	2.51	0.57
4:M:298:LEU:CD1	6:U:57:GLU:CG	2.83	0.57
5:R:35:THR:HG22	5:R:36:VAL:O	2.04	0.57
6:U:106:VAL:HG12	6:U:106:VAL:O	2.04	0.57
6:V:221:GLU:HG3	6:V:221:GLU:O	2.03	0.57
7:8:16:ARG:HD2	7:8:21:THR:HG23	1.85	0.57
1:A:150:GLU:HG3	1:C:443:ASP:HA	1.86	0.57
1:B:193:PHE:CZ	1:B:197:PRO:O	2.58	0.57
1:B:589:VAL:HG23	1:B:593:LEU:HD12	1.85	0.57
1:B:846:PHE:CD2	1:B:847:PRO:HD3	2.39	0.57
1:C:121:TYR:CE2	1:C:229:PHE:HD1	2.22	0.57
1:C:172:LEU:HD23	1:C:174:LEU:HD23	1.85	0.57
1:C:365:LEU:HD23	1:C:647:LEU:HD22	1.86	0.57
1:C:653:LEU:HD21	1:C:707:TYR:CE1	2.33	0.57
1:D:29:VAL:HG13	1:D:30:GLN:H	1.69	0.57
1:D:169:ASN:CG	1:F:432:ASN:CB	2.71	0.57
1:D:203:ASN:HD21	1:D:414:LEU:HB3	1.69	0.57
1:D:231:ARG:HD3	1:E:813:ASP:OD2	2.03	0.57
1:D:486:LYS:HE2	1:D:509:VAL:CG2	2.34	0.57
1:D:736:ARG:O	1:F:64:LEU:HB2	2.03	0.57
1:D:866:CYS:SG	1:D:869:VAL:CG1	2.90	0.57
1:E:67:ARG:HB2	1:E:616:TYR:CE2	2.39	0.57
1:E:134:GLN:OE1	1:E:285:THR:HG21	2.05	0.57
1:E:445:ALA:H	1:F:153:VAL:H	1.50	0.57
1:E:586:ARG:NH1	1:E:591:MET:HG2	2.19	0.57
1:E:791:MET:CG	1:E:868:ARG:CZ	2.82	0.57
1:F:564:GLN:HE22	1:F:566:PHE:CB	2.17	0.57
1:F:713:TYR:CE1	1:F:714:LEU:HB2	2.40	0.57
1:F:802:SER:HB2	1:F:861:GLN:O	2.04	0.57
1:H:113:PHE:HB2	1:H:324:ILE:CD1	2.33	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:413:PRO:HG2	1:H:418:GLY:H	1.66	0.57
1:I:135:TRP:CH2	1:I:309:GLU:CG	2.88	0.57
1:I:187:ILE:C	1:I:189:ALA:H	2.06	0.57
1:I:423:TYR:O	1:I:450:ASN:HB2	2.05	0.57
1:J:113:PHE:O	1:J:115:PRO:HD3	2.04	0.57
1:J:523:ARG:O	1:J:523:ARG:CG	2.50	0.57
1:J:537:HIS:C	1:J:539:ARG:N	2.54	0.57
1:K:59:ASP:HA	1:L:736:ARG:HH22	1.69	0.57
1:K:73:ARG:CZ	1:K:612:SER:CB	2.81	0.57
1:K:80:TYR:O	1:K:585:PHE:N	2.37	0.57
1:K:424:GLN:O	1:L:261:PHE:HA	2.04	0.57
1:K:575:LEU:HB3	1:K:576:PRO:CD	2.34	0.57
1:L:298:VAL:HG13	1:L:315:GLN:O	2.04	0.57
2:N:100:PHE:CE2	2:N:483:ILE:CD1	2.77	0.57
4:M:107:THR:HG23	4:M:108:ASN:N	2.20	0.57
4:M:135:LEU:HA	4:M:138:LEU:HD12	1.86	0.57
5:Q:76:ARG:NH1	5:S:76:ARG:HH12	2.03	0.57
7:6:24:GLU:CD	7:6:27:THR:OG1	2.42	0.57
1:A:407:LEU:HD11	1:C:474:TYR:CB	2.34	0.57
1:A:445:ALA:CB	1:B:139:GLU:OE2	2.52	0.57
1:A:695:PHE:O	1:A:695:PHE:CG	2.57	0.57
1:B:330:PHE:CZ	1:B:385:ASN:HB2	2.40	0.57
1:B:427:LYS:HB2	1:B:441:GLU:CG	2.35	0.57
1:C:481:LEU:CD2	1:C:529:MET:HE1	2.18	0.57
1:C:544:ARG:HH11	1:C:544:ARG:HB2	1.67	0.57
1:C:653:LEU:CD2	1:C:707:TYR:HE1	2.18	0.57
1:C:720:LYS:HE3	1:C:742:GLU:CD	2.25	0.57
1:D:136:GLU:CA	1:D:151:LYS:HG2	2.33	0.57
1:E:44:LYS:O	1:F:642:SER:N	2.36	0.57
1:E:72:ASP:OD1	1:E:72:ASP:O	2.23	0.57
1:E:83:ARG:HA	1:E:582:GLU:CB	2.35	0.57
1:E:229:PHE:CE2	1:F:849:PRO:HD3	2.39	0.57
1:E:582:GLU:OE1	1:E:582:GLU:O	2.22	0.57
1:F:83:ARG:HA	1:F:582:GLU:CB	2.33	0.57
1:F:574:LEU:HD11	1:F:579:TYR:CD2	2.39	0.57
1:G:524:TRP:HA	1:G:524:TRP:HE3	1.69	0.57
1:G:723:ILE:O	1:G:730:SER:CB	2.53	0.57
1:H:12:TYR:CD2	1:H:13:MET:HE2	2.40	0.57
1:H:354:ALA:O	1:H:940:TYR:OH	2.17	0.57
1:H:918:LEU:HG	1:H:919:LEU:H	1.69	0.57
1:I:399:GLU:HB2	1:I:522:ALA:O	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:659:LYS:HB3	1:I:659:LYS:NZ	2.18	0.57
1:I:926:VAL:HG21	1:I:940:TYR:CE1	2.38	0.57
1:J:44:LYS:HE3	1:K:571:ASN:O	2.04	0.57
1:J:113:PHE:CD1	1:J:324:ILE:HD12	2.40	0.57
1:J:134:GLN:HB2	1:J:155:LYS:HD3	1.86	0.57
1:J:409:ASN:CB	1:L:467:ASN:OD1	2.53	0.57
1:J:676:ARG:NH1	1:J:676:ARG:CG	2.66	0.57
1:J:759:CYS:CB	1:J:800:PRO:HB3	2.33	0.57
1:K:764:ASP:OD2	1:K:765:TRP:N	2.38	0.57
1:L:77:THR:C	5:Q:76:ARG:HH21	2.08	0.57
1:L:187:ILE:O	1:L:187:ILE:HG23	2.04	0.57
1:L:544:ARG:HH11	1:L:544:ARG:HB3	1.69	0.57
1:L:685:THR:CG2	1:L:686:LYS:N	2.67	0.57
2:N:334:ASP:HB3	2:N:449:ASP:OD1	2.04	0.57
4:M:162:PHE:CZ	4:M:237:ILE:CD1	2.81	0.57
4:M:273:PHE:CE2	6:U:62:THR:CG2	2.77	0.57
5:R:72:MET:C	5:R:75:THR:HG22	2.24	0.57
6:U:215:ASN:ND2	6:U:215:ASN:H	2.03	0.57
1:A:131:ASN:N	1:A:131:ASN:HD22	2.01	0.57
1:B:13:MET:CG	1:C:925:VAL:CG2	2.82	0.57
1:B:18:GLN:O	1:B:48:PRO:CG	2.52	0.57
1:B:339:THR:CG2	1:B:342:MET:CE	2.83	0.57
1:B:403:VAL:CG2	1:B:465:GLN:HB3	2.34	0.57
1:B:716:HIS:CE1	1:B:717:THR:CG2	2.87	0.57
1:B:782:HIS:O	1:B:783:VAL:C	2.42	0.57
1:C:60:ARG:NH2	6:U:93:ARG:CZ	2.64	0.57
1:C:186:ASP:OD1	1:C:191:LYS:O	2.22	0.57
1:C:434:GLY:O	1:C:435:ALA:HB3	2.04	0.57
1:C:589:VAL:HG23	1:C:593:LEU:CD1	2.35	0.57
1:C:746:LYS:HG3	1:C:760:ASN:HD21	1.70	0.57
1:D:104:ARG:HD3	1:D:559:HIS:CD2	2.40	0.57
1:D:564:GLN:HG3	1:D:564:GLN:O	2.03	0.57
1:E:121:TYR:CE2	1:F:847:PRO:O	2.58	0.57
1:E:364:GLU:OE2	1:E:364:GLU:HA	2.04	0.57
1:E:730:SER:HB2	1:E:732:PRO:CD	2.33	0.57
1:F:90:ASP:O	1:F:91:ASN:OD1	2.21	0.57
1:F:139:GLU:OE2	1:F:153:VAL:HG23	2.04	0.57
1:F:258:PHE:HE2	1:F:284:TYR:HE2	1.50	0.57
1:G:215:ALA:O	1:G:285:THR:HA	2.05	0.57
1:G:685:THR:HG23	1:G:686:LYS:N	2.20	0.57
1:H:257:ASP:OD1	1:H:257:ASP:C	2.41	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:361:ARG:HG3	1:H:362:ASN:N	2.20	0.57
1:H:413:PRO:CG	1:H:418:GLY:H	2.18	0.57
1:H:603:VAL:HA	5:Q:40:PRO:HB3	1.84	0.57
1:I:135:TRP:CZ3	1:I:137:THR:OG1	2.57	0.57
1:I:364:GLU:CG	1:I:708:LEU:HB2	2.33	0.57
1:I:422:THR:HG21	1:I:449:GLN:HA	1.84	0.57
1:I:626:THR:HA	1:I:629:THR:HG22	1.87	0.57
1:I:738:LEU:O	1:I:740:PRO:CD	2.46	0.57
1:J:4:PRO:HD2	1:K:892:MET:HE1	1.86	0.57
1:J:414:LEU:CD1	1:K:837:ARG:NE	2.68	0.57
1:J:550:LEU:HD23	1:J:556:VAL:HG11	1.86	0.57
1:K:214:ARG:HH11	1:K:214:ARG:HG2	1.69	0.57
1:K:222:MET:HE3	1:K:312:LEU:HD12	1.86	0.57
1:K:366:SER:OG	1:K:647:LEU:N	2.37	0.57
1:L:670:ARG:HH12	1:L:945:PHE:HD2	1.31	0.57
2:N:506:LEU:HG	2:N:507:GLY:H	1.69	0.57
4:M:246:VAL:HG12	4:M:249:ASN:CB	2.35	0.57
5:Q:36:VAL:CG2	5:Q:43:PRO:HG3	2.32	0.57
6:U:10:MET:CG	6:U:26:ASP:HB3	2.35	0.57
1:A:461:GLU:HG2	1:A:462:ILE:H	1.68	0.57
1:A:815:LYS:NZ	1:C:233:THR:O	2.38	0.57
1:A:846:PHE:O	1:A:847:PRO:C	2.37	0.57
1:B:112:SER:HA	1:B:501:TYR:CD2	2.40	0.57
1:B:334:MET:HB3	1:B:336:TYR:CD1	2.37	0.57
1:B:635:ARG:HH11	1:B:932:HIS:HA	1.70	0.57
1:B:652:MET:HG3	1:B:920:PHE:HE1	1.70	0.57
1:B:722:SER:O	1:B:903:MET:CA	2.52	0.57
1:B:783:VAL:HG12	1:B:795:PHE:CZ	2.39	0.57
1:C:107:LEU:CG	1:C:108:ASP:N	2.67	0.57
1:D:29:VAL:CG1	1:D:30:GLN:N	2.66	0.57
1:D:70:PRO:HD3	1:D:613:VAL:O	2.04	0.57
1:D:912:GLU:HB2	1:D:913:PRO:CD	2.34	0.57
1:E:121:TYR:HB2	1:E:227:GLY:O	2.04	0.57
1:E:268:PRO:CB	1:E:275:GLU:OE1	2.49	0.57
1:E:328:ASP:O	1:E:329:ASN:HB2	2.04	0.57
1:E:503:TYR:C	1:E:505:ASN:H	2.06	0.57
1:E:729:VAL:HG11	1:E:741:ASN:OD1	2.05	0.57
1:F:362:ASN:ND2	1:F:365:LEU:H	2.03	0.57
1:F:943:THR:HG22	1:F:944:PRO:CD	2.35	0.57
1:G:38:TYR:CZ	1:H:56:VAL:HG11	2.40	0.57
1:G:107:LEU:HD11	1:G:593:LEU:HD21	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:196:GLU:H	1:G:197:PRO:CD	2.18	0.57
1:G:567:PHE:CZ	1:G:926:VAL:HG23	2.40	0.57
1:G:865:LEU:HD22	1:G:865:LEU:C	2.24	0.57
1:J:74:GLU:HG2	1:J:81:LYS:HB3	1.86	0.57
1:J:235:GLU:HB3	1:K:815:LYS:HB3	1.87	0.57
1:J:262:ASP:HB2	1:L:426:VAL:HG11	1.85	0.57
1:J:410:TYR:OH	1:L:836:MET:HA	2.05	0.57
1:J:531:ASN:O	1:J:713:TYR:CD1	2.57	0.57
1:J:539:ARG:HB2	1:J:539:ARG:NH1	2.14	0.57
1:J:677:GLY:CA	1:J:921:GLU:HG3	2.35	0.57
1:J:851:ILE:HD11	1:L:116:TYR:CZ	2.40	0.57
1:K:21:SER:HB3	7:8:11:PRO:HG2	1.86	0.57
1:K:764:ASP:O	1:K:767:LEU:N	2.37	0.57
1:L:258:PHE:CD1	1:L:258:PHE:N	2.72	0.57
1:L:296:HIS:CE1	1:L:317:MET:CE	2.87	0.57
1:L:648:SER:O	1:L:922:VAL:HG22	2.05	0.57
2:N:42:ILE:HB	2:N:50:GLN:HB2	1.85	0.57
2:N:404:GLN:HE22	2:N:407:ASN:ND2	1.92	0.57
4:M:347:ARG:O	4:M:351:PRO:HG3	2.05	0.57
5:P:39:ARG:NH1	5:P:41:VAL:HG21	2.14	0.57
6:U:80:TYR:N	6:U:80:TYR:CD1	2.73	0.57
6:U:193:VAL:O	6:U:194:PRO:C	2.41	0.57
1:B:14:HIS:O	1:B:48:PRO:CG	2.53	0.57
1:B:188:TYR:CA	1:B:192:THR:HG21	2.34	0.57
1:B:188:TYR:HD1	1:B:256:ILE:CD1	2.18	0.57
1:B:636:ASN:OD1	1:B:636:ASN:N	2.34	0.57
1:B:918:LEU:HD23	1:B:920:PHE:CZ	2.40	0.57
1:C:93:VAL:HG11	1:C:630:LEU:CD1	2.34	0.57
1:C:530:ASP:CG	1:C:865:LEU:CD2	2.69	0.57
1:C:537:HIS:C	1:C:539:ARG:N	2.54	0.57
1:C:633:MET:HG2	1:C:633:MET:O	2.04	0.57
1:D:6:MET:HE3	1:D:9:GLN:CB	2.35	0.57
1:D:103:ILE:HG21	1:D:610:PHE:CD2	2.40	0.57
1:D:327:ARG:HH12	1:D:705:ILE:HG23	1.68	0.57
1:D:854:THR:O	1:D:854:THR:OG1	2.15	0.57
1:E:135:TRP:HB3	1:E:307:SER:O	2.04	0.57
1:E:188:TYR:CE1	1:E:256:ILE:HD12	2.39	0.57
1:E:529:MET:HB2	1:E:532:VAL:HG11	1.86	0.57
1:E:540:ASN:OD1	1:E:543:LEU:CB	2.53	0.57
1:E:774:TYR:HB3	1:E:788:LYS:HE2	1.86	0.57
1:F:397:ILE:HD13	1:F:523:ARG:HH21	1.67	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:410:TYR:HA	1:F:461:GLU:CB	2.35	0.57
1:F:554:ARG:CB	1:F:555:TYR:CE2	2.86	0.57
1:F:943:THR:CB	1:F:944:PRO:CD	2.83	0.57
1:G:78:TYR:HB3	1:G:695:PHE:CE1	2.39	0.57
1:H:787:TYR:CG	1:H:788:LYS:N	2.73	0.57
1:I:199:VAL:HG12	1:I:206:GLU:CG	2.35	0.57
1:I:208:GLU:HB2	1:I:211:TYR:OH	2.05	0.57
1:I:263:VAL:HG12	1:I:265:GLY:H	1.70	0.57
1:J:94:LEU:HB2	1:J:619:PHE:CE2	2.39	0.57
1:J:263:VAL:HG22	1:L:423:TYR:HE2	1.66	0.57
1:J:299:TYR:HE2	1:J:301:PRO:HD3	1.69	0.57
1:J:414:LEU:CD1	1:K:837:ARG:CD	2.82	0.57
1:J:655:PRO:CB	5:R:8:PHE:CZ	2.81	0.57
1:J:951:THR:HG22	1:J:952:THR:H	1.70	0.57
1:K:41:LEU:HD11	1:L:630:LEU:HD11	1.86	0.57
1:K:155:LYS:HD3	1:K:283:LEU:HD22	1.87	0.57
1:K:174:LEU:HD12	1:K:191:LYS:HE2	1.87	0.57
1:K:223:LYS:HB3	1:K:224:PRO:HD2	1.87	0.57
1:K:423:TYR:O	1:K:449:GLN:HB3	2.04	0.57
1:L:497:ASN:O	1:L:497:ASN:OD1	2.22	0.57
2:N:70:ASN:CB	2:N:73:ASN:HD21	2.17	0.57
2:N:271:LEU:HD23	2:N:367:VAL:HG21	1.86	0.57
5:Q:28:ARG:HB2	5:Q:31:VAL:CG2	2.35	0.57
5:R:32:MET:O	5:R:33:GLY:O	2.23	0.57
7:7:9:LEU:CG	7:7:10:ALA:H	2.18	0.57
1:A:130:PRO:HD2	1:C:204:TRP:CZ2	2.40	0.57
1:A:322:ASN:HB2	1:A:597:LEU:HB2	1.87	0.57
1:A:787:TYR:CD1	1:A:787:TYR:C	2.79	0.57
1:B:52:PRO:HB2	1:B:56:VAL:HG21	1.86	0.57
1:B:831:TYR:HB3	1:B:838:GLN:HE22	1.57	0.57
1:C:60:ARG:HH21	6:U:93:ARG:HE	1.35	0.57
1:C:193:PHE:CZ	1:C:284:TYR:HE1	2.19	0.57
1:D:377:ARG:HG2	1:D:377:ARG:NH1	2.19	0.57
1:D:427:LYS:HG3	1:D:441:GLU:HG3	1.83	0.57
1:D:738:LEU:N	1:D:738:LEU:CD2	2.65	0.57
1:E:88:VAL:O	1:E:88:VAL:CG2	2.48	0.57
1:E:173:LEU:HB2	1:E:185:LYS:HZ2	1.70	0.57
1:E:474:TYR:HA	1:E:478:ALA:HB2	1.84	0.57
1:E:545:TYR:O	1:E:547:SER:N	2.37	0.57
1:E:566:PHE:O	1:E:570:LYS:N	2.37	0.57
1:E:663:VAL:O	1:E:663:VAL:HG13	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:82:ALA:HB1	1:F:84:PHE:CZ	2.40	0.57
1:F:399:GLU:HB3	1:F:523:ARG:HA	1.87	0.57
1:F:566:PHE:CE1	1:F:568:ALA:HB3	2.38	0.57
1:G:31:PHE:CD2	1:G:32:ALA:N	2.73	0.57
1:G:228:SER:HB2	1:G:290:LEU:CD1	2.34	0.57
1:G:298:VAL:HG11	1:G:835:THR:CG2	2.34	0.57
1:H:150:GLU:C	1:H:152:ASP:N	2.58	0.57
1:H:156:THR:HG21	1:H:309:GLU:OE2	2.05	0.57
1:H:266:GLY:H	1:H:276:GLU:HB3	1.70	0.57
1:H:350:SER:CB	1:L:90:ASP:HB2	2.35	0.57
1:I:103:ILE:CB	1:I:613:VAL:HG22	2.34	0.57
1:I:385:ASN:ND2	1:I:546:ARG:HG3	2.02	0.57
1:I:731:TRP:O	1:I:731:TRP:CG	2.54	0.57
1:I:904:THR:HG22	1:I:904:THR:O	2.05	0.57
1:J:243:LYS:HD3	1:J:252:LYS:C	2.07	0.57
1:J:571:ASN:N	1:J:571:ASN:OD1	2.38	0.57
1:J:666:SER:HB2	5:P:16:TYR:CE2	2.39	0.57
1:K:230:ALA:HB2	1:K:289:ASN:O	2.05	0.57
1:K:520:ILE:O	1:K:520:ILE:HG13	2.04	0.57
1:L:135:TRP:CH2	1:L:156:THR:CB	2.85	0.57
1:L:255:ASP:O	1:L:286:GLU:HB3	2.05	0.57
1:L:344:VAL:HG22	1:L:346:ALA:H	1.69	0.57
1:L:477:VAL:O	1:L:480:TYR:HB2	2.05	0.57
1:L:731:TRP:N	1:L:732:PRO:CD	2.68	0.57
1:L:943:THR:CB	1:L:944:PRO:HD3	2.34	0.57
4:M:6:PRO:CB	4:M:11:ARG:NH2	2.67	0.57
7:5:21:THR:O	7:5:21:THR:CG2	2.46	0.57
1:A:428:ILE:H	1:A:438:SER:HA	1.69	0.57
1:A:621:PRO:HG2	1:B:878:ASN:HB3	1.86	0.57
1:A:735:ASP:HA	1:A:740:PRO:HG3	1.87	0.57
1:B:9:GLN:HA	1:B:9:GLN:HE21	1.70	0.57
1:B:38:TYR:OH	7:1:24:GLU:CG	2.53	0.57
1:B:99:THR:HA	1:B:616:TYR:O	2.05	0.57
1:B:224:PRO:HB3	1:B:314:GLN:O	2.05	0.57
1:B:362:ASN:HD21	1:B:365:LEU:CB	2.15	0.57
1:B:377:ARG:CD	1:B:388:VAL:HG22	2.34	0.57
1:B:447:SER:O	1:B:449:GLN:N	2.37	0.57
1:B:517:TYR:CD1	1:B:517:TYR:O	2.57	0.57
1:B:647:LEU:O	1:B:649:ALA:N	2.38	0.57
1:C:356:VAL:HG23	1:C:356:VAL:O	2.04	0.57
1:C:731:TRP:CE3	1:C:732:PRO:HD3	2.40	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:337:ASN:HA	1:D:357:ASP:OD2	2.05	0.57
1:D:339:THR:HA	1:D:342:MET:HG2	1.87	0.57
1:D:908:ASP:HB2	1:D:909:PRO:HD2	1.86	0.57
1:E:85:THR:HG22	1:E:580:THR:HG22	1.86	0.57
1:E:408:PRO:HG2	1:E:410:TYR:CZ	2.40	0.57
1:F:756:VAL:CG1	1:F:763:LYS:HA	2.30	0.57
1:G:941:LEU:HD22	1:I:13:MET:HG3	1.87	0.57
1:H:67:ARG:NH2	1:I:752:GLU:OE1	2.38	0.57
1:H:189:ALA:HB1	1:H:234:ASN:HD21	1.69	0.57
1:H:391:TYR:C	1:H:391:TYR:CD1	2.77	0.57
1:H:715:ASN:HD21	1:H:869:VAL:HG13	1.70	0.57
1:H:760:ASN:OD1	1:H:760:ASN:N	2.34	0.57
1:I:115:PRO:HB3	1:I:323:TYR:CD1	2.40	0.57
1:I:246:ASN:ND2	1:I:249:GLU:O	2.38	0.57
1:J:151:LYS:HB3	1:J:154:THR:HG21	1.86	0.57
1:J:647:LEU:CD1	7:9:4:ILE:HD13	2.35	0.57
1:J:812:LYS:O	1:J:813:ASP:OD1	2.22	0.57
1:K:31:PHE:CE1	1:L:630:LEU:HD13	2.40	0.57
1:K:229:PHE:O	1:K:229:PHE:CD2	2.58	0.57
1:K:500:THR:HG22	1:K:502:GLU:H	1.70	0.57
1:K:744:GLU:O	1:K:765:TRP:CB	2.49	0.57
1:K:745:ILE:HG12	1:K:765:TRP:CE2	2.40	0.57
1:L:54:HIS:HB2	1:L:55:ASP:OD2	2.05	0.57
2:N:256:LYS:NZ	2:N:261:GLN:HB2	2.20	0.57
4:M:221:THR:HG23	4:M:222:VAL:H	1.66	0.57
5:Q:16:TYR:CE2	5:R:18:THR:CB	2.87	0.57
5:Q:42:LEU:N	5:Q:43:PRO:HD3	2.20	0.57
5:R:9:GLU:CD	5:R:13:PHE:CB	2.74	0.57
1:A:113:PHE:O	1:B:851:ILE:HB	2.05	0.56
1:A:159:VAL:CB	1:B:840:GLN:OE1	2.41	0.56
1:A:230:ALA:HB1	1:A:288:VAL:CG2	2.34	0.56
1:A:367:TYR:HB3	1:A:565:LYS:HD2	1.87	0.56
1:B:61:SER:HB3	1:C:734:ASN:CA	2.34	0.56
1:B:643:PHE:O	1:B:926:VAL:HG12	2.05	0.56
1:C:60:ARG:NE	6:U:93:ARG:HD2	1.91	0.56
1:C:151:LYS:HB3	1:C:154:THR:CB	2.35	0.56
1:C:261:PHE:HE1	1:C:283:LEU:HD12	1.66	0.56
1:C:811:TYR:HD1	1:C:857:PRO:CD	2.16	0.56
1:D:246:ASN:HD22	1:D:251:PRO:HA	1.70	0.56
1:D:372:ASP:HA	1:D:377:ARG:HG3	1.86	0.56
1:D:767:LEU:O	1:D:771:LEU:HB2	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:47:ASN:HB2	1:E:48:PRO:CD	2.31	0.56
1:E:93:VAL:HG22	1:E:573:LEU:HD22	1.86	0.56
1:E:111:PRO:HD3	1:E:554:ARG:NH2	2.19	0.56
1:E:486:LYS:HB3	1:E:509:VAL:HG12	1.87	0.56
1:E:590:ASN:HB3	1:E:602:ARG:HH21	1.69	0.56
1:F:367:TYR:CD2	1:F:565:LYS:HD2	2.39	0.56
1:F:740:PRO:HG2	1:J:339:THR:O	2.05	0.56
1:F:829:THR:CG2	1:F:830:GLY:N	2.47	0.56
1:G:157:PHE:HE1	1:G:312:LEU:HG	1.68	0.56
1:G:210:PHE:CE2	1:G:278:LYS:NZ	2.73	0.56
1:G:540:ASN:ND2	1:G:543:LEU:CB	2.68	0.56
1:H:336:TYR:OH	1:H:565:LYS:HD3	2.05	0.56
1:H:396:ARG:CZ	1:H:534:PRO:HG3	2.35	0.56
1:H:582:GLU:O	1:H:583:TRP:HB2	2.04	0.56
1:I:189:ALA:HA	1:I:241:LYS:HZ3	1.69	0.56
1:I:331:VAL:O	1:I:331:VAL:HG23	2.03	0.56
1:J:107:LEU:HG	1:J:108:ASP:H	1.70	0.56
1:J:403:VAL:HG11	1:J:466:ALA:HA	1.87	0.56
1:J:639:HIS:CD2	1:L:28:LEU:CD2	2.83	0.56
1:J:759:CYS:HB2	1:J:800:PRO:HB3	1.86	0.56
1:J:847:PRO:O	1:L:121:TYR:HE2	1.87	0.56
1:K:113:PHE:HB2	1:K:324:ILE:CD1	2.29	0.56
1:K:214:ARG:HA	1:K:284:TYR:O	2.05	0.56
1:K:341:ASN:HD22	1:K:341:ASN:H	1.53	0.56
1:K:353:ASN:OD1	1:K:354:ALA:N	2.37	0.56
1:K:658:ALA:CB	1:K:913:PRO:N	2.64	0.56
1:K:682:ARG:HE	1:K:914:THR:HG21	1.70	0.56
1:K:787:TYR:C	1:K:787:TYR:CD1	2.79	0.56
1:K:902:ASP:C	1:K:903:MET:HG3	2.25	0.56
1:L:328:ASP:O	1:L:331:VAL:HG13	2.04	0.56
1:L:518:ILE:O	1:L:518:ILE:HG13	2.05	0.56
1:L:820:PRO:CG	1:L:821:PHE:CD1	2.79	0.56
4:M:67:PRO:HG2	4:M:68:THR:H	1.69	0.56
4:M:78:ALA:O	4:M:81:GLU:HB2	2.05	0.56
4:M:257:THR:O	4:M:261:GLU:HG2	2.04	0.56
6:U:75:PRO:HG3	6:U:78:LEU:HD12	1.87	0.56
6:U:168:TYR:C	7:1:31:ASN:CB	2.71	0.56
1:A:193:PHE:CE1	1:A:214:ARG:HB2	2.40	0.56
1:A:255:ASP:O	1:A:286:GLU:HG3	2.05	0.56
1:B:81:LYS:HA	1:B:584:ASN:CA	2.35	0.56
1:B:139:GLU:HG3	1:B:152:ASP:CG	2.25	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:324:ILE:CD1	1:B:595:SER:CB	2.79	0.56
1:B:365:LEU:HD13	1:B:710:GLY:HA2	1.86	0.56
1:B:384:TRP:NE1	1:C:781:PHE:O	2.38	0.56
1:B:695:PHE:O	1:B:695:PHE:HD2	1.86	0.56
1:B:705:ILE:HG22	1:B:705:ILE:O	2.05	0.56
1:C:566:PHE:O	1:C:570:LYS:HB2	2.04	0.56
1:C:682:ARG:CD	1:C:907:VAL:HG11	2.36	0.56
1:C:685:THR:O	1:C:687:GLU:N	2.38	0.56
1:D:211:TYR:O	1:D:281:ILE:HA	2.05	0.56
1:E:348:GLN:HG3	1:E:349:ALA:N	2.18	0.56
1:F:370:LEU:HD21	1:F:570:LYS:HZ3	1.65	0.56
1:F:494:LEU:HB3	1:F:503:TYR:HD1	1.68	0.56
1:G:31:PHE:CD2	1:G:31:PHE:C	2.78	0.56
1:H:38:TYR:CE1	1:I:56:VAL:CG2	2.88	0.56
1:H:83:ARG:HA	1:H:582:GLU:CB	2.35	0.56
1:H:194:GLN:OE1	1:I:821:PHE:HA	2.04	0.56
1:H:203:ASN:CA	1:I:836:MET:SD	2.93	0.56
1:H:796:ARG:O	1:H:796:ARG:HD3	2.05	0.56
1:I:926:VAL:CG2	1:I:940:TYR:CD1	2.88	0.56
1:J:18:GLN:CA	1:J:18:GLN:NE2	2.68	0.56
1:J:356:VAL:O	1:J:361:ARG:NH2	2.38	0.56
1:K:135:TRP:HE1	1:K:156:THR:CG2	2.17	0.56
1:K:174:LEU:CD1	1:K:191:LYS:HE3	2.36	0.56
1:L:115:PRO:HA	1:L:323:TYR:CE1	2.40	0.56
1:L:298:VAL:HG12	1:L:316:SER:HA	1.85	0.56
1:L:656:ILE:HG22	1:L:914:THR:O	2.06	0.56
1:L:771:LEU:C	1:L:774:TYR:O	2.43	0.56
4:M:199:LEU:CD1	6:U:1:MET:CE	2.84	0.56
6:U:72:ARG:HG2	6:U:219:VAL:HG23	1.87	0.56
7:3:9:LEU:HD22	7:3:11:PRO:CD	2.35	0.56
1:A:158:GLY:C	1:C:452:ILE:HG23	2.25	0.56
1:A:358:LEU:HD21	1:A:947:ALA:HB1	1.87	0.56
1:A:694:GLY:O	1:A:695:PHE:CB	2.52	0.56
1:A:841:PRO:CD	1:C:159:VAL:HG11	2.35	0.56
1:A:877:SER:OG	1:A:888:LEU:HD21	2.05	0.56
1:A:905:PHE:C	1:A:906:GLU:HG2	2.20	0.56
1:B:119:THR:CG2	1:B:226:TYR:CZ	2.88	0.56
1:B:171:GLY:HA2	1:B:284:TYR:OH	2.05	0.56
1:B:298:VAL:HG22	1:B:317:MET:HG2	1.79	0.56
1:B:317:MET:HB2	1:B:318:PRO:HD2	1.86	0.56
1:B:415:ASN:HD21	1:B:418:GLY:H	1.49	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:579:TYR:N	1:B:579:TYR:CD2	2.73	0.56
1:B:670:ARG:NH2	2:N:92:GLU:OE2	2.33	0.56
1:B:846:PHE:CD2	1:B:847:PRO:N	2.73	0.56
1:B:864:PHE:O	1:B:864:PHE:CG	2.57	0.56
1:C:78:TYR:HD2	1:C:695:PHE:HE1	0.79	0.56
1:C:78:TYR:CE2	1:C:695:PHE:CD1	2.93	0.56
1:C:241:LYS:HD3	1:C:256:ILE:CD1	2.35	0.56
1:C:300:LYS:HB2	1:C:300:LYS:NZ	2.20	0.56
1:C:556:VAL:O	1:C:556:VAL:HG13	2.06	0.56
1:C:623:ALA:HB3	1:C:626:THR:CG2	2.35	0.56
1:C:910:MET:HE2	1:C:914:THR:CG2	2.33	0.56
1:D:83:ARG:HB2	1:D:582:GLU:HB3	0.65	0.56
1:D:358:LEU:H	1:D:358:LEU:HD12	1.70	0.56
1:D:731:TRP:CD1	1:D:731:TRP:N	2.73	0.56
1:E:89:GLY:HA2	1:J:351:GLN:OE1	2.05	0.56
1:E:204:TRP:NE1	1:E:415:ASN:CB	2.63	0.56
1:E:546:ARG:HH11	1:E:546:ARG:CB	2.19	0.56
1:E:675:PHE:O	1:E:875:PHE:HD2	1.88	0.56
1:E:813:ASP:O	1:E:813:ASP:OD1	2.23	0.56
1:F:309:GLU:CD	1:F:309:GLU:N	2.58	0.56
1:F:422:THR:HA	1:F:450:ASN:O	2.05	0.56
1:F:500:THR:HG23	1:F:503:TYR:HB3	1.87	0.56
1:F:571:ASN:H	1:F:571:ASN:ND2	1.90	0.56
1:F:696:ASP:OD1	1:F:696:ASP:C	2.43	0.56
1:F:744:GLU:O	1:F:762:THR:CB	2.53	0.56
1:F:745:ILE:HG12	1:F:765:TRP:CE2	2.39	0.56
1:F:768:VAL:O	1:F:772:SER:HB2	2.06	0.56
1:F:772:SER:OG	1:F:874:PRO:HG3	2.06	0.56
1:F:811:TYR:HB2	1:F:857:PRO:HG2	1.87	0.56
1:G:18:GLN:O	1:G:48:PRO:CG	2.53	0.56
1:G:49:THR:CG2	1:H:883:GLY:HA2	2.35	0.56
1:G:152:ASP:C	1:I:445:ALA:HB2	2.26	0.56
1:G:162:THR:OG1	1:G:193:PHE:CD1	2.53	0.56
1:G:194:GLN:HE21	1:H:821:PHE:HA	1.71	0.56
1:G:345:LEU:CD2	1:G:936:ILE:HD12	2.35	0.56
1:G:443:ASP:CB	1:H:150:GLU:HB3	2.17	0.56
1:G:485:TYR:OH	1:G:528:PRO:HB3	2.06	0.56
1:G:636:ASN:OD1	1:G:636:ASN:C	2.42	0.56
1:G:868:ARG:O	1:G:868:ARG:CG	2.53	0.56
1:H:18:GLN:HB3	1:H:23:TYR:HB3	1.86	0.56
1:H:28:LEU:HD22	1:I:639:HIS:ND1	2.19	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:139:GLU:HG2	1:H:140:LYS:N	2.20	0.56
1:H:330:PHE:CD2	1:H:562:VAL:HG12	2.41	0.56
1:H:422:THR:CG2	1:H:449:GLN:O	2.53	0.56
1:H:467:ASN:ND2	1:I:409:ASN:HB3	2.20	0.56
1:H:544:ARG:HH11	1:I:401:HIS:CG	2.23	0.56
1:I:38:TYR:HH	7:6:24:GLU:HB2	0.68	0.56
1:I:135:TRP:HZ3	1:I:137:THR:OG1	1.88	0.56
1:I:162:THR:O	1:I:199:VAL:HG22	2.06	0.56
1:I:494:LEU:HD22	1:I:503:TYR:HA	1.87	0.56
1:I:706:PRO:HA	1:I:711:THR:HG22	1.86	0.56
1:I:906:GLU:OE2	5:S:24:TRP:NE1	2.37	0.56
1:J:10:TRP:HA	1:J:15:ILE:CG2	2.35	0.56
1:J:208:GLU:HB2	1:J:211:TYR:CE1	2.40	0.56
1:J:250:GLN:N	1:J:251:PRO:HD3	2.20	0.56
1:J:328:ASP:O	1:J:331:VAL:CG1	2.50	0.56
1:J:573:LEU:HD13	1:J:634:LEU:HD13	1.85	0.56
1:J:731:TRP:N	1:J:732:PRO:HD2	2.20	0.56
1:K:108:ASP:OD2	1:K:605:GLY:O	2.23	0.56
1:K:241:LYS:CE	1:K:286:GLU:OE2	2.49	0.56
1:K:246:ASN:ND2	1:K:246:ASN:C	2.52	0.56
1:K:517:TYR:HA	1:K:520:ILE:CG2	2.35	0.56
1:K:553:GLY:N	1:L:804:GLN:HG3	2.20	0.56
1:K:687:GLU:O	1:K:699:PHE:CZ	2.59	0.56
1:K:741:ASN:O	1:K:741:ASN:CG	2.43	0.56
1:K:803:ARG:NE	1:K:805:VAL:HG13	2.21	0.56
1:K:833:ALA:HB1	1:K:835:THR:HG23	1.87	0.56
1:L:78:TYR:CD2	5:Q:76:ARG:NH2	2.72	0.56
1:L:187:ILE:C	1:L:189:ALA:H	2.08	0.56
1:L:260:TYR:CE2	1:L:282:ILE:CG2	2.88	0.56
1:L:409:ASN:ND2	1:L:464:LEU:CD1	2.69	0.56
1:L:713:TYR:HA	1:L:867:ASP:CB	2.33	0.56
2:N:114:LEU:HD11	2:N:502:VAL:CG1	2.35	0.56
2:N:141:PRO:HB3	2:N:152:ASP:CB	2.34	0.56
2:N:202:LYS:HD3	2:N:452:ILE:O	2.06	0.56
2:N:372:LEU:HD12	2:N:373:LEU:N	2.21	0.56
4:M:186:PHE:N	4:M:186:PHE:CD1	2.74	0.56
5:Q:13:PHE:CD1	5:Q:14:SER:N	2.74	0.56
5:Q:33:GLY:HA3	5:Q:44:ALA:O	2.06	0.56
5:R:91:VAL:HG12	5:R:92:PRO:HD2	1.87	0.56
5:S:120:GLN:O	5:S:124:GLU:HG3	2.05	0.56
6:U:57:GLU:C	6:U:59:ALA:H	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:U:81:GLN:NE2	6:U:179:ARG:N	2.54	0.56
6:V:2:SER:OG	6:V:199:ASN:HA	2.05	0.56
6:V:205:PRO:C	6:V:208:TYR:CD1	2.79	0.56
7:8:17:PRO:C	7:8:18:PHE:CD2	2.79	0.56
1:A:419:THR:CG2	1:A:420:ASN:N	2.68	0.56
1:B:22:GLU:O	6:U:177:GLU:HB3	2.05	0.56
1:B:83:ARG:HA	1:B:582:GLU:CA	2.34	0.56
1:B:139:GLU:HG2	1:B:152:ASP:OD2	2.05	0.56
1:B:153:VAL:O	1:B:156:THR:HG23	2.04	0.56
1:B:167:ILE:HG21	1:B:282:ILE:CG2	2.34	0.56
1:B:242:PHE:CE1	1:B:287:ASN:HB2	2.38	0.56
1:B:396:ARG:HG3	1:B:396:ARG:HH11	1.70	0.56
1:B:456:ASN:O	1:B:457:VAL:HB	2.05	0.56
1:B:533:ASN:HD21	1:B:536:ASN:ND2	1.94	0.56
1:B:589:VAL:HG13	1:B:590:ASN:N	2.19	0.56
1:B:658:ALA:O	1:B:659:LYS:HB2	2.06	0.56
1:B:670:ARG:CZ	1:B:945:PHE:CE2	2.81	0.56
1:B:670:ARG:HH21	1:B:945:PHE:CD2	1.43	0.56
1:C:867:ASP:O	1:C:868:ARG:HB2	2.03	0.56
1:C:947:ALA:HB2	1:K:724:MET:SD	2.46	0.56
1:D:400:ASN:ND2	1:D:520:ILE:CA	2.64	0.56
1:E:13:MET:HB3	1:F:925:VAL:HG21	1.86	0.56
1:E:32:ALA:HB1	1:E:41:LEU:HD21	1.85	0.56
1:E:135:TRP:HH2	1:E:309:GLU:CD	2.09	0.56
1:E:154:THR:C	1:E:156:THR:H	2.08	0.56
1:E:174:LEU:HD21	1:E:186:ASP:CG	2.25	0.56
1:F:136:GLU:OE1	1:F:151:LYS:HA	2.05	0.56
1:F:172:LEU:HD22	1:F:193:PHE:CZ	2.40	0.56
1:F:174:LEU:HD12	1:F:191:LYS:HZ1	1.68	0.56
1:F:483:ASP:OD1	1:F:483:ASP:C	2.43	0.56
1:F:631:GLU:O	1:F:635:ARG:HB2	2.06	0.56
1:G:107:LEU:HG	1:G:108:ASP:H	1.71	0.56
1:G:124:LEU:HB2	1:H:825:ASN:ND2	2.13	0.56
1:G:162:THR:HG1	1:G:193:PHE:HE1	1.47	0.56
1:G:417:THR:CG2	1:G:419:THR:CG2	2.84	0.56
1:G:525:SER:O	1:G:526:LEU:HB3	2.05	0.56
1:G:730:SER:C	1:G:732:PRO:HD2	2.25	0.56
1:H:88:VAL:C	1:H:89:GLY:O	2.44	0.56
1:H:94:LEU:HD12	1:H:619:PHE:CD1	1.91	0.56
1:H:94:LEU:HD22	1:H:619:PHE:HE1	1.71	0.56
1:H:192:THR:HB	1:H:214:ARG:HD2	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:336:TYR:O	1:H:337:ASN:OD1	2.22	0.56
1:H:450:ASN:CB	1:I:156:THR:HA	2.27	0.56
1:H:774:TYR:HE1	1:H:789:ASP:HB2	1.71	0.56
1:I:103:ILE:HG12	1:I:613:VAL:HG13	1.87	0.56
1:I:188:TYR:CB	1:I:256:ILE:CD1	2.80	0.56
1:I:222:MET:HE2	1:I:308:SER:O	2.05	0.56
1:I:488:THR:HG22	1:I:489:PRO:O	2.04	0.56
1:I:614:ASN:OD1	1:I:614:ASN:N	2.38	0.56
1:I:776:ILE:H	1:I:776:ILE:HD12	1.68	0.56
1:J:18:GLN:HE21	1:J:19:ASP:H	1.53	0.56
1:J:277:TYR:O	1:L:440:TRP:CZ3	2.59	0.56
1:J:909:PRO:HG3	5:Q:48:THR:C	2.21	0.56
1:L:204:TRP:CZ3	1:L:415:ASN:ND2	2.71	0.56
1:L:234:ASN:C	1:L:236:LYS:H	2.09	0.56
1:L:507:ARG:HH11	1:L:507:ARG:CB	2.13	0.56
1:L:768:VAL:HG13	1:L:879:PHE:CD2	2.41	0.56
1:L:846:PHE:CD2	1:L:847:PRO:HD3	2.41	0.56
2:N:147:THR:O	2:N:147:THR:CG2	2.53	0.56
2:N:190:ARG:HG2	2:N:191:GLN:N	2.19	0.56
6:U:168:TYR:HB2	7:1:31:ASN:CB	2.36	0.56
1:A:424:GLN:CA	1:A:446:ILE:O	2.50	0.56
1:A:464:LEU:HD11	1:C:464:LEU:HD21	1.87	0.56
1:A:828:PHE:HD2	1:B:412:PHE:CD1	2.21	0.56
1:A:838:GLN:HB3	1:C:198:GLN:NE2	2.20	0.56
1:A:895:ALA:O	1:A:897:SER:N	2.30	0.56
1:A:931:PRO:HG2	1:A:932:HIS:H	1.70	0.56
1:B:117:SER:O	1:C:402:GLY:CA	2.54	0.56
1:B:311:ASN:C	1:B:313:VAL:H	2.09	0.56
1:B:835:THR:C	1:B:836:MET:HE3	2.25	0.56
1:B:943:THR:CB	1:B:944:PRO:HD3	2.36	0.56
1:C:354:ALA:HB2	1:C:936:ILE:HD11	1.86	0.56
1:D:486:LYS:HE2	1:D:509:VAL:HG22	1.86	0.56
1:D:748:SER:HB3	1:D:760:ASN:HD22	1.69	0.56
1:D:800:PRO:O	1:D:801:MET:HB3	2.06	0.56
1:E:366:SER:OG	1:E:647:LEU:HB3	2.05	0.56
1:E:759:CYS:O	1:E:761:MET:N	2.37	0.56
1:E:864:PHE:O	1:E:864:PHE:CD1	2.59	0.56
1:F:160:ALA:HB1	1:F:212:GLY:O	2.04	0.56
1:F:560:ILE:CD1	1:F:560:ILE:O	2.47	0.56
1:G:239:GLN:HE21	1:G:240:ALA:N	1.90	0.56
1:G:394:ASP:OD1	1:G:394:ASP:C	2.44	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:769:GLN:NE2	1:G:872:ARG:H	2.04	0.56
1:G:836:MET:HE2	1:G:837:ARG:NH1	2.05	0.56
1:G:928:VAL:CG1	1:G:936:ILE:CG2	2.83	0.56
1:H:296:HIS:HE1	1:H:317:MET:SD	2.28	0.56
1:H:403:VAL:HG21	1:H:466:ALA:CA	2.35	0.56
1:H:454:LYS:O	1:I:161:ALA:HB2	2.05	0.56
1:H:846:PHE:HB3	1:H:847:PRO:HD3	1.86	0.56
1:I:99:THR:HG22	1:I:617:ALA:CB	2.36	0.56
1:I:333:LEU:HD23	1:I:562:VAL:HG21	1.86	0.56
1:I:581:TYR:O	1:I:582:GLU:HB3	2.04	0.56
1:I:756:VAL:HG23	1:I:757:ALA:CA	2.35	0.56
1:J:4:PRO:HD2	1:K:892:MET:CE	2.35	0.56
1:J:56:VAL:HG22	7:9:24:GLU:CG	2.33	0.56
1:J:152:ASP:CA	1:L:445:ALA:H	2.18	0.56
1:J:278:LYS:HA	1:L:438:SER:OG	2.04	0.56
1:J:377:ARG:HD3	1:J:388:VAL:HG11	1.86	0.56
1:J:379:ARG:HH11	1:J:379:ARG:HG3	1.70	0.56
1:J:795:PHE:HE1	1:L:381:PHE:CD1	2.23	0.56
1:K:107:LEU:HD12	1:K:608:VAL:HG12	1.87	0.56
1:K:649:ALA:HA	1:K:922:VAL:CG2	2.35	0.56
1:L:397:ILE:HD11	1:L:799:GLN:NE2	2.21	0.56
2:N:280:LEU:HD13	2:N:328:VAL:CG1	2.35	0.56
2:N:286:LEU:HD21	3:O:17:TYR:HD2	1.67	0.56
4:M:140:ALA:HB3	4:M:179:TYR:HB2	1.88	0.56
1:A:126:PRO:HG2	1:A:129:ALA:CB	2.36	0.56
1:B:66:LEU:CG	1:B:619:PHE:CE1	2.86	0.56
1:B:335:TYR:CE2	1:B:341:ASN:CG	2.78	0.56
1:B:377:ARG:O	1:B:388:VAL:HG23	2.05	0.56
1:B:771:LEU:HD12	1:B:880:MET:HE1	1.87	0.56
1:B:921:GLU:O	1:B:922:VAL:HG12	2.03	0.56
1:C:201:GLU:O	1:C:201:GLU:CG	2.53	0.56
1:C:653:LEU:HD11	1:C:707:TYR:CZ	2.41	0.56
1:C:687:GLU:HG3	1:C:687:GLU:O	2.05	0.56
1:D:20:ALA:HB1	7:3:9:LEU:HB2	1.87	0.56
1:D:204:TRP:HB2	1:D:205:GLN:CD	2.25	0.56
1:D:444:ASP:C	1:E:152:ASP:HB2	2.26	0.56
1:E:267:SER:HB2	1:E:268:PRO:CD	2.35	0.56
1:E:327:ARG:HD3	1:E:594:GLN:HG2	1.88	0.56
1:E:336:TYR:OH	1:E:565:LYS:HG3	2.05	0.56
1:E:665:ILE:HD11	1:E:903:MET:HE3	1.87	0.56
1:F:394:ASP:O	1:F:394:ASP:OD1	2.23	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:400:ASN:HB3	1:F:469:TRP:CZ2	2.41	0.56
1:F:483:ASP:HA	1:F:486:LYS:CD	2.35	0.56
1:F:574:LEU:HA	1:F:930:GLN:HE22	1.69	0.56
1:F:756:VAL:HG12	1:F:763:LYS:CA	2.32	0.56
1:G:46:ARG:NH1	1:G:46:ARG:CB	2.68	0.56
1:G:88:VAL:HG13	1:G:577:GLY:N	2.19	0.56
1:G:99:THR:HG22	1:G:615:LEU:HD12	1.88	0.56
1:G:199:VAL:HG22	1:G:200:GLY:N	2.20	0.56
1:G:359:GLN:NE2	1:G:359:GLN:C	2.59	0.56
1:G:410:TYR:HE2	1:H:414:LEU:HD21	1.71	0.56
1:G:671:ASN:ND2	1:G:897:SER:O	2.39	0.56
1:H:21:SER:CB	7:5:11:PRO:HG2	2.31	0.56
1:H:192:THR:O	1:H:192:THR:HG22	2.05	0.56
1:H:500:THR:C	1:H:502:GLU:H	2.08	0.56
1:H:829:THR:OG1	1:H:830:GLY:N	2.29	0.56
1:I:33:ARG:HD3	7:6:12:ARG:CB	2.36	0.56
1:I:809:ILE:CG1	1:I:810:ASN:OD1	2.53	0.56
1:I:879:PHE:N	1:I:879:PHE:CD1	2.72	0.56
1:J:495:PRO:HG2	1:J:500:THR:CG2	2.32	0.56
1:J:806:VAL:HG21	1:J:856:VAL:HG21	1.86	0.56
1:J:836:MET:HG2	1:J:837:ARG:H	1.69	0.56
1:K:410:TYR:CD2	1:K:461:GLU:HG2	2.40	0.56
1:K:410:TYR:CE2	1:L:414:LEU:HD21	2.33	0.56
1:K:575:LEU:N	1:K:930:GLN:HE22	1.97	0.56
1:K:948:GLY:HA2	6:U:32:ASN:CB	2.31	0.56
1:L:154:THR:HG22	1:L:155:LYS:N	2.20	0.56
1:L:328:ASP:C	1:L:328:ASP:OD2	2.42	0.56
1:L:384:TRP:HZ3	1:L:561:GLN:HB3	1.71	0.56
2:N:405:VAL:CG2	2:N:405:VAL:O	2.53	0.56
4:M:156:GLN:HB2	4:M:211:GLY:HA3	1.87	0.56
4:M:159:TYR:HD1	4:M:210:TRP:HE1	1.53	0.56
5:S:74:ALA:O	5:S:78:ALA:HB2	2.06	0.56
6:U:189:VAL:O	6:U:189:VAL:CG1	2.54	0.56
7:5:17:PRO:HD2	7:5:22:TRP:O	2.06	0.56
1:A:88:VAL:HG13	1:A:576:PRO:HA	1.86	0.56
1:A:244:PRO:O	1:A:245:VAL:C	2.42	0.56
1:A:328:ASP:H	1:A:546:ARG:HH21	1.54	0.56
1:B:687:GLU:OE2	1:B:701:TYR:CZ	2.58	0.56
1:C:82:ALA:HB2	1:C:613:VAL:HG21	1.87	0.56
1:D:836:MET:CE	1:F:203:ASN:CB	2.84	0.56
1:E:173:LEU:HD13	1:E:185:LYS:HZ3	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:150:GLU:O	1:F:152:ASP:N	2.38	0.56
1:H:485:TYR:CB	1:H:513:LEU:HD21	2.35	0.56
1:H:594:GLN:O	1:H:594:GLN:HG3	2.04	0.56
1:H:672:TRP:CZ3	1:H:945:PHE:HZ	2.22	0.56
1:I:88:VAL:HG23	1:I:88:VAL:O	2.06	0.56
1:J:31:PHE:CE2	1:K:630:LEU:CG	2.88	0.56
1:J:223:LYS:CG	1:J:224:PRO:HD2	2.36	0.56
1:J:504:MET:HG3	1:J:597:LEU:HD11	1.87	0.56
1:J:678:TRP:CZ2	1:J:901:LEU:HD21	2.38	0.56
1:J:716:HIS:O	1:J:716:HIS:CD2	2.59	0.56
1:K:20:ALA:HB2	1:K:47:ASN:HB3	1.88	0.56
1:K:121:TYR:HE2	1:L:847:PRO:O	1.89	0.56
1:K:818:THR:HG22	1:K:820:PRO:HD2	1.87	0.56
1:L:7:MET:HB3	1:L:8:PRO:HD2	1.85	0.56
1:L:267:SER:HA	1:L:277:TYR:CD2	2.38	0.56
1:L:476:ASN:CG	1:L:539:ARG:CD	2.73	0.56
1:L:644:ASN:OD1	1:L:645:ASP:O	2.23	0.56
4:M:18:PRO:HG2	4:M:22:ALA:HB2	1.85	0.56
4:M:93:VAL:O	4:M:97:LEU:HB2	2.05	0.56
5:P:118:LEU:O	5:P:122:VAL:HG23	2.05	0.56
1:A:126:PRO:HD2	1:B:828:PHE:HE2	1.69	0.56
1:A:150:GLU:C	1:A:152:ASP:H	2.08	0.56
1:A:188:TYR:HD1	1:A:256:ILE:HB	1.70	0.56
1:A:391:TYR:CD1	1:A:396:ARG:HB2	2.40	0.56
1:A:514:VAL:HA	1:A:518:ILE:HG21	1.88	0.56
1:A:564:GLN:NE2	1:A:569:ILE:CG2	2.69	0.56
1:B:127:LYS:HZ2	1:C:405:ASP:CG	2.09	0.56
1:B:258:PHE:N	1:B:258:PHE:CD1	2.71	0.56
1:B:395:VAL:HG21	1:B:476:ASN:HB3	1.87	0.56
1:B:558:PHE:C	1:B:558:PHE:CD1	2.76	0.56
1:B:835:THR:CG2	1:B:836:MET:N	2.58	0.56
1:C:35:THR:HB	7:2:24:GLU:OE1	2.05	0.56
1:C:192:THR:CG2	1:C:214:ARG:HH11	2.16	0.56
1:C:403:VAL:CG2	1:C:465:GLN:HB3	2.36	0.56
1:C:405:ASP:CG	1:C:405:ASP:O	2.39	0.56
1:C:754:TYR:O	1:C:755:ASN:ND2	2.38	0.56
1:C:905:PHE:HZ	1:C:918:LEU:HD13	1.70	0.56
1:D:278:LYS:HB2	1:F:437:GLU:OE2	2.06	0.56
1:D:653:LEU:HD12	1:D:653:LEU:N	2.21	0.56
1:E:75:ALA:CB	1:E:80:TYR:CD1	2.86	0.56
1:E:222:MET:CE	1:E:307:SER:CB	2.77	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:311:ASN:C	1:E:314:GLN:NE2	2.54	0.56
1:E:811:TYR:CE1	1:E:856:VAL:HG12	2.41	0.56
1:F:24:LEU:HD11	7:4:9:LEU:HD22	1.87	0.56
1:F:99:THR:HG22	1:F:617:ALA:HB2	1.88	0.56
1:F:269:PRO:HA	1:F:275:GLU:O	2.06	0.56
1:F:497:ASN:H	1:F:497:ASN:HD22	1.54	0.56
1:F:564:GLN:HE22	1:F:566:PHE:N	1.97	0.56
1:F:745:ILE:HG12	1:F:765:TRP:NE1	2.20	0.56
1:F:932:HIS:H	1:F:935:VAL:HG12	1.71	0.56
1:G:198:GLN:HB2	1:H:839:GLY:H	1.70	0.56
1:G:651:ASN:CB	1:G:919:LEU:HB2	2.36	0.56
1:G:842:TYR:CG	1:G:843:PRO:HD2	2.40	0.56
1:G:926:VAL:HG22	1:G:940:TYR:CE2	2.41	0.56
1:H:76:THR:N	1:H:79:LEU:O	2.38	0.56
1:H:203:ASN:OD1	1:H:204:TRP:N	2.34	0.56
1:H:724:MET:O	1:H:902:ASP:N	2.38	0.56
1:I:199:VAL:HG12	1:I:206:GLU:OE2	2.06	0.56
1:I:524:TRP:CZ3	1:I:863:LYS:HB3	2.40	0.56
1:I:665:ILE:HD11	1:I:918:LEU:HD22	1.88	0.56
1:J:26:PRO:HA	1:J:29:VAL:HG12	1.86	0.56
1:J:486:LYS:HB3	1:J:509:VAL:HG22	1.87	0.56
1:J:524:TRP:CE2	1:J:803:ARG:CD	2.84	0.56
1:J:704:SER:OG	1:J:711:THR:HG21	2.06	0.56
1:J:713:TYR:CD2	1:J:713:TYR:N	2.74	0.56
1:J:766:PHE:CE2	1:L:383:MET:HE2	2.40	0.56
1:K:202:GLU:CA	1:L:313:VAL:HG11	2.35	0.56
1:K:300:LYS:HE2	1:K:303:THR:O	2.06	0.56
1:K:330:PHE:CE2	1:K:385:ASN:HB3	2.40	0.56
1:K:423:TYR:O	1:K:424:GLN:HB3	2.06	0.56
1:K:672:TRP:CZ2	1:K:901:LEU:CD2	2.88	0.56
1:L:20:ALA:O	1:L:24:LEU:HD11	1.96	0.56
1:L:150:GLU:C	1:L:152:ASP:H	2.09	0.56
1:L:537:HIS:C	1:L:539:ARG:N	2.58	0.56
1:L:672:TRP:HZ2	1:L:901:LEU:HD23	1.71	0.56
2:N:378:VAL:HG21	2:N:465:SER:H	1.71	0.56
5:S:31:VAL:H	5:S:46:SER:HB3	1.70	0.56
6:V:211:GLU:OE1	6:V:211:GLU:HA	2.05	0.56
7:4:27:THR:HG22	7:4:27:THR:O	2.03	0.56
1:A:449:GLN:HG3	1:B:139:GLU:CD	2.25	0.56
1:A:932:HIS:O	1:A:935:VAL:HG22	2.05	0.56
1:B:337:ASN:OD1	1:B:362:ASN:HA	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:46:ARG:NH1	1:C:46:ARG:CB	2.68	0.56
1:C:88:VAL:O	1:C:88:VAL:HG13	2.03	0.56
1:C:250:GLN:HG3	1:C:251:PRO:CD	2.35	0.56
1:C:684:LYS:NZ	1:C:912:GLU:HG3	2.19	0.56
1:D:222:MET:HE3	1:D:307:SER:HA	1.83	0.56
1:D:705:ILE:CD1	1:D:708:LEU:HD11	2.24	0.56
1:E:223:LYS:HG3	1:E:292:THR:CG2	2.35	0.56
1:E:374:LEU:O	1:E:374:LEU:HD23	2.05	0.56
1:E:382:SER:HB2	1:E:549:LEU:HD11	1.86	0.56
1:E:905:PHE:HZ	1:E:918:LEU:HD11	1.69	0.56
1:F:526:LEU:H	1:F:526:LEU:HD13	1.70	0.56
1:F:666:SER:HB2	5:R:16:TYR:CZ	2.35	0.56
1:F:686:LYS:HB3	1:F:686:LYS:HZ3	1.70	0.56
1:F:800:PRO:C	1:F:801:MET:CG	2.74	0.56
1:G:152:ASP:OD1	1:I:444:ASP:CA	2.54	0.56
1:G:382:SER:CB	1:G:549:LEU:HD21	2.35	0.56
1:G:839:GLY:HA2	1:I:198:GLN:HG3	1.87	0.56
1:H:140:LYS:NZ	1:H:146:GLY:HA2	2.20	0.56
1:H:535:PHE:C	1:H:536:ASN:HD22	2.09	0.56
1:H:635:ARG:HG3	1:H:635:ARG:O	2.05	0.56
1:H:672:TRP:HZ3	1:H:945:PHE:CE1	2.23	0.56
1:I:718:PHE:O	1:I:746:LYS:HG3	2.05	0.56
1:J:191:LYS:CB	1:J:194:GLN:HE21	2.17	0.56
1:J:803:ARG:CD	1:J:861:GLN:HE21	2.17	0.56
1:K:257:ASP:O	1:K:284:TYR:HA	2.06	0.56
1:K:485:TYR:OH	1:K:528:PRO:CB	2.53	0.56
1:K:942:ARG:NE	1:K:945:PHE:O	2.39	0.56
1:K:948:GLY:CA	6:U:32:ASN:HB2	2.34	0.56
1:L:66:LEU:CD1	1:L:619:PHE:CZ	2.74	0.56
1:L:474:TYR:C	1:L:474:TYR:CD2	2.80	0.56
2:N:31:ARG:HB3	2:N:31:ARG:CZ	2.36	0.56
4:M:6:PRO:HG2	4:M:11:ARG:HH12	1.71	0.56
5:Q:13:PHE:CD1	5:Q:13:PHE:C	2.79	0.56
5:Q:39:ARG:CG	5:Q:41:VAL:CG2	2.83	0.56
5:Q:75:THR:O	5:Q:79:SER:HB2	2.06	0.56
5:R:56:ASN:O	5:R:57:SER:C	2.44	0.56
6:U:4:GLU:N	6:U:4:GLU:OE1	2.38	0.56
1:A:161:ALA:HA	1:C:455:GLY:O	2.05	0.56
1:A:202:GLU:HA	1:B:313:VAL:HG11	1.88	0.56
1:A:260:TYR:CE2	1:A:282:ILE:CD1	2.89	0.56
1:A:326:PHE:CD2	1:A:550:LEU:HD11	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:75:ALA:HB2	1:B:80:TYR:HE1	1.65	0.56
1:B:445:ALA:HB2	1:C:152:ASP:HB3	1.87	0.56
1:B:658:ALA:HB1	1:B:911:ASP:O	2.06	0.56
1:C:52:PRO:HG3	7:1:23:ASN:OD1	2.05	0.56
1:C:539:ARG:NH1	1:C:539:ARG:HG3	2.20	0.56
1:C:929:HIS:CD2	1:C:931:PRO:HD3	2.35	0.56
1:D:239:GLN:NE2	1:D:240:ALA:H	1.98	0.56
1:D:295:THR:CB	1:D:295:THR:HG1	2.07	0.56
1:D:310:ILE:HD12	1:D:310:ILE:N	2.07	0.56
1:D:337:ASN:HD21	1:D:362:ASN:HA	1.71	0.56
1:D:669:SER:HA	1:D:899:HIS:O	2.06	0.56
1:D:774:TYR:CZ	1:D:784:PRO:HG3	2.41	0.56
1:E:64:LEU:HD12	1:F:736:ARG:HD2	1.88	0.56
1:E:192:THR:C	1:E:193:PHE:CG	2.79	0.56
1:E:631:GLU:C	1:E:631:GLU:CD	2.65	0.56
1:G:152:ASP:HA	1:I:444:ASP:HA	1.86	0.56
1:G:396:ARG:HD3	1:G:534:PRO:HB3	1.86	0.56
1:G:804:GLN:HB3	1:G:860:THR:HA	1.88	0.56
1:H:74:GLU:OE2	1:H:81:LYS:CG	2.53	0.56
1:H:75:ALA:HA	1:H:79:LEU:O	2.05	0.56
1:H:134:GLN:CD	1:H:155:LYS:HE2	2.21	0.56
1:H:676:ARG:HB2	1:H:921:GLU:HB3	1.86	0.56
1:H:921:GLU:OE1	1:H:921:GLU:CA	2.52	0.56
1:I:135:TRP:CZ2	1:I:309:GLU:CB	2.80	0.56
1:I:262:ASP:OD1	1:I:263:VAL:C	2.45	0.56
1:I:518:ILE:O	1:I:518:ILE:CG1	2.53	0.56
1:I:545:TYR:C	1:I:547:SER:H	2.09	0.56
1:I:663:VAL:O	1:I:663:VAL:CG1	2.45	0.56
1:J:103:ILE:HA	1:J:613:VAL:HA	1.87	0.56
1:J:539:ARG:HG2	1:J:539:ARG:O	2.05	0.56
1:J:868:ARG:HG2	1:J:868:ARG:O	2.06	0.56
1:K:10:TRP:CG	6:V:16:GLN:O	2.59	0.56
1:K:222:MET:CG	1:K:307:SER:HG	2.18	0.56
1:K:287:ASN:HD22	1:K:287:ASN:N	1.97	0.56
1:K:450:ASN:HD22	1:L:153:VAL:C	2.09	0.56
1:K:936:ILE:HG22	1:K:937:GLU:N	2.21	0.56
1:L:20:ALA:O	7:9:9:LEU:CD1	2.54	0.56
1:L:24:LEU:CD1	1:L:24:LEU:H	2.13	0.56
1:L:522:ALA:C	1:L:524:TRP:H	2.08	0.56
1:L:822:GLN:CD	1:L:846:PHE:CG	2.79	0.56
1:L:878:ASN:CG	1:L:880:MET:HG2	2.26	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:70:ASN:HB2	2:N:73:ASN:HD21	1.71	0.56
2:N:123:GLU:O	2:N:124:TYR:C	2.44	0.56
2:N:173:THR:HG21	2:N:251:LEU:HD21	1.87	0.56
2:N:334:ASP:CB	2:N:449:ASP:OD2	2.51	0.56
4:M:33:ILE:O	4:M:33:ILE:HG13	2.05	0.56
4:M:298:LEU:HD13	6:U:57:GLU:CG	2.35	0.56
5:Q:14:SER:N	5:Q:15:PRO:HD2	2.21	0.56
5:Q:126:ARG:O	5:Q:126:ARG:HG2	2.06	0.56
5:Q:128:GLN:O	5:Q:131:GLN:HG3	2.06	0.56
5:R:19:THR:HG21	5:R:22:PRO:HD3	1.88	0.56
5:R:131:GLN:HA	5:R:134:LYS:CB	2.35	0.56
6:U:11:TRP:HZ2	6:U:69:LEU:HD21	1.69	0.56
6:U:58:GLN:HE21	6:U:193:VAL:HG13	1.70	0.56
1:A:93:VAL:HG23	1:A:575:LEU:HD23	1.88	0.55
1:A:167:ILE:CG2	1:A:282:ILE:CD1	2.72	0.55
1:A:188:TYR:O	1:A:241:LYS:NZ	2.22	0.55
1:A:751:GLY:O	1:A:752:GLU:C	2.44	0.55
1:B:408:PRO:HB2	1:B:410:TYR:CZ	2.42	0.55
1:B:424:GLN:HA	1:B:449:GLN:CG	2.36	0.55
1:B:670:ARG:HH12	2:N:92:GLU:HG3	1.71	0.55
1:C:107:LEU:HG	1:C:108:ASP:H	1.71	0.55
1:C:470:LYS:HD3	1:C:470:LYS:O	2.05	0.55
1:C:490:ALA:O	1:C:491:ASN:ND2	2.39	0.55
1:C:666:SER:HB3	1:C:902:ASP:HB2	1.89	0.55
1:C:745:ILE:HG12	1:C:765:TRP:CE2	2.40	0.55
1:D:74:GLU:O	1:D:75:ALA:HB2	2.05	0.55
1:E:70:PRO:HA	1:E:84:PHE:CD2	2.41	0.55
1:E:922:VAL:CB	1:E:944:PRO:CD	2.82	0.55
1:F:132:PRO:CA	1:F:157:PHE:O	2.45	0.55
1:F:359:GLN:HE22	1:F:692:GLY:HA2	1.71	0.55
1:F:524:TRP:HA	1:F:801:MET:CE	2.36	0.55
1:F:761:MET:HG2	1:F:766:PHE:HB2	1.88	0.55
1:F:823:HIS:CD2	1:F:845:ASN:HB3	2.41	0.55
1:G:160:ALA:HB1	1:G:213:GLY:H	1.70	0.55
1:G:313:VAL:HG21	1:I:203:ASN:H	1.70	0.55
1:G:481:LEU:HD13	1:G:513:LEU:HD21	1.87	0.55
1:G:594:GLN:NE2	1:G:704:SER:HB2	2.20	0.55
1:G:808:GLU:HG3	1:G:814:TYR:CE2	2.41	0.55
1:H:308:SER:O	1:H:311:ASN:CB	2.54	0.55
1:H:358:LEU:HD22	1:H:947:ALA:HB1	1.87	0.55
1:H:774:TYR:HE1	1:H:789:ASP:CB	2.19	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:906:GLU:O	1:H:906:GLU:CG	2.54	0.55
1:H:913:PRO:HB2	5:P:8:PHE:HB2	1.56	0.55
1:I:497:ASN:HD22	1:I:497:ASN:H	1.53	0.55
1:I:656:ILE:CG2	1:I:663:VAL:HG21	2.10	0.55
1:J:170:GLN:OE1	1:J:185:LYS:HG3	2.05	0.55
1:J:198:GLN:HE22	1:K:840:GLN:CB	2.18	0.55
1:J:333:LEU:CD2	1:J:562:VAL:HG21	2.37	0.55
1:J:488:THR:N	1:J:507:ARG:HH21	2.04	0.55
1:J:589:VAL:CG2	1:J:593:LEU:HD23	2.36	0.55
1:J:650:ALA:CA	1:J:942:ARG:NH2	2.55	0.55
1:J:760:ASN:ND2	5:Q:54:VAL:HG11	2.21	0.55
1:J:768:VAL:HG13	1:J:879:PHE:CE2	2.41	0.55
1:J:803:ARG:HH11	1:J:803:ARG:CG	2.19	0.55
1:K:119:THR:CG2	1:K:119:THR:O	2.54	0.55
1:K:329:ASN:HD21	1:K:377:ARG:HH22	1.54	0.55
1:K:575:LEU:CB	1:K:576:PRO:CD	2.84	0.55
1:L:126:PRO:C	1:L:128:GLY:H	2.09	0.55
1:L:457:VAL:HG12	1:L:457:VAL:O	2.04	0.55
2:N:148:ASP:C	2:N:149:LEU:HD12	2.25	0.55
4:M:79:LEU:HD23	4:M:85:ILE:HD13	1.86	0.55
4:M:198:ASN:CA	6:U:199:ASN:ND2	2.67	0.55
5:Q:12:LEU:CG	5:Q:15:PRO:HG2	2.36	0.55
6:U:81:GLN:HE22	6:U:178:PRO:CA	2.18	0.55
6:U:197:TYR:CE1	6:U:209:PRO:CG	2.89	0.55
6:V:62:THR:HG21	6:V:190:GLU:CB	2.35	0.55
7:6:3:ASP:O	7:6:4:ILE:HG13	1.97	0.55
7:9:24:GLU:OE1	7:9:27:THR:OG1	2.23	0.55
1:A:18:GLN:CD	1:A:22:GLU:OE2	2.44	0.55
1:A:192:THR:HG23	1:A:193:PHE:H	1.70	0.55
1:A:310:ILE:CA	1:C:205:GLN:HE22	2.16	0.55
1:B:79:LEU:CD1	1:B:341:ASN:HD21	2.20	0.55
1:B:204:TRP:CH2	1:C:130:PRO:HD3	2.41	0.55
1:B:545:TYR:C	1:B:547:SER:H	2.10	0.55
1:B:651:ASN:HA	1:B:919:LEU:HA	1.88	0.55
1:C:135:TRP:CZ2	1:C:156:THR:OG1	2.57	0.55
1:C:377:ARG:HH11	1:C:377:ARG:HB3	1.71	0.55
1:C:429:THR:HG22	1:C:429:THR:O	2.06	0.55
1:C:570:LYS:HB3	1:C:570:LYS:HZ2	1.70	0.55
1:D:46:ARG:HD2	1:E:644:ASN:ND2	2.22	0.55
1:D:94:LEU:O	1:D:574:LEU:HB3	2.05	0.55
1:D:479:LEU:HD11	1:E:406:GLU:CD	2.27	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:512:SER:OG	1:D:819:LEU:HD21	2.07	0.55
1:D:822:GLN:HG3	1:D:822:GLN:O	2.06	0.55
1:E:66:LEU:CG	1:E:619:PHE:HE1	2.19	0.55
1:F:250:GLN:CB	1:F:251:PRO:HD2	2.36	0.55
1:F:666:SER:CB	5:R:16:TYR:CZ	2.81	0.55
1:F:701:TYR:OH	1:F:704:SER:N	2.39	0.55
1:F:942:ARG:NH1	1:F:945:PHE:O	2.39	0.55
1:G:78:TYR:CG	1:G:695:PHE:CE1	2.95	0.55
1:G:121:TYR:CE1	1:G:293:PRO:CG	2.88	0.55
1:G:425:GLY:HA2	1:H:260:TYR:O	2.06	0.55
1:G:628:SER:HA	1:G:631:GLU:HB3	1.88	0.55
1:G:752:GLU:O	1:G:754:TYR:HD1	1.86	0.55
1:H:91:ASN:O	1:H:627:ALA:HB1	2.06	0.55
1:I:166:ASN:HA	1:I:210:PHE:CE1	2.41	0.55
1:I:309:GLU:HA	1:I:312:LEU:HD22	1.87	0.55
1:I:752:GLU:O	1:I:754:TYR:CD1	2.59	0.55
1:I:933:ARG:CZ	1:I:933:ARG:HB3	2.36	0.55
1:J:51:ALA:CA	1:K:883:GLY:HA3	2.36	0.55
1:J:309:GLU:OE2	1:J:309:GLU:CA	2.55	0.55
1:J:428:ILE:HG12	1:K:278:LYS:HZ2	1.72	0.55
1:J:584:ASN:N	1:J:584:ASN:ND2	2.54	0.55
1:J:589:VAL:HG22	1:J:593:LEU:HD23	1.88	0.55
1:K:344:VAL:HG13	1:K:582:GLU:H	1.71	0.55
1:K:485:TYR:HD2	1:K:485:TYR:H	1.53	0.55
1:K:649:ALA:HA	1:K:922:VAL:HG22	1.88	0.55
1:K:846:PHE:HB3	1:K:847:PRO:HD3	1.87	0.55
1:L:200:GLY:C	1:L:202:GLU:N	2.58	0.55
2:N:117:ASN:HD21	2:N:503:TYR:HD2	1.54	0.55
4:M:144:PHE:CZ	4:M:200:SER:HB3	2.41	0.55
4:M:314:ALA:HB3	4:M:317:GLU:CD	2.27	0.55
6:U:80:TYR:HD1	6:U:80:TYR:H	1.52	0.55
6:U:92:PRO:HG2	6:U:93:ARG:H	1.71	0.55
6:V:43:ARG:HG3	6:V:43:ARG:NH1	2.18	0.55
1:A:644:ASN:HB2	1:A:924:ASP:O	2.06	0.55
1:B:86:LEU:HD12	1:B:86:LEU:O	2.07	0.55
1:B:588:ASP:O	1:B:592:ILE:HG12	2.07	0.55
1:B:846:PHE:HB3	1:B:847:PRO:HD3	1.87	0.55
1:C:144:THR:O	1:C:144:THR:CG2	2.54	0.55
1:C:266:GLY:CA	1:C:277:TYR:CE2	2.90	0.55
1:C:642:SER:HA	1:C:926:VAL:O	2.06	0.55
1:C:685:THR:C	1:C:687:GLU:H	2.09	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:50:VAL:O	7:4:22:TRP:HA	2.05	0.55
1:D:567:PHE:CZ	1:D:926:VAL:HG13	2.42	0.55
1:E:437:GLU:HA	1:E:437:GLU:OE1	2.07	0.55
1:E:454:LYS:HE3	1:F:211:TYR:CE1	2.41	0.55
1:E:833:ALA:CB	1:E:835:THR:HG23	2.36	0.55
1:F:242:PHE:HZ	1:F:289:ASN:ND2	1.93	0.55
1:F:425:GLY:HA3	1:F:444:ASP:HB2	1.89	0.55
1:F:648:SER:HB3	1:F:924:ASP:HB2	1.87	0.55
1:F:943:THR:HG22	1:F:944:PRO:N	2.19	0.55
1:G:134:GLN:CG	1:G:155:LYS:HZ3	2.19	0.55
1:G:391:TYR:CG	1:G:391:TYR:O	2.59	0.55
1:G:527:ASP:OD1	1:G:863:LYS:NZ	2.29	0.55
1:G:635:ARG:NH1	1:G:930:GLN:O	2.39	0.55
1:G:704:SER:O	1:G:706:PRO:HD3	2.06	0.55
1:H:193:PHE:HZ	1:H:198:GLN:CA	2.19	0.55
1:I:165:ILE:O	1:I:210:PHE:CD1	2.56	0.55
1:I:244:PRO:HG2	1:I:253:ASP:HB3	1.89	0.55
1:I:775:ASN:HD21	1:I:881:SER:HB2	1.71	0.55
1:J:324:ILE:CG2	1:J:593:LEU:HB3	2.36	0.55
1:J:486:LYS:HB2	1:J:507:ARG:O	2.07	0.55
1:J:745:ILE:O	1:J:761:MET:HA	2.06	0.55
1:J:828:PHE:N	1:J:828:PHE:CD1	2.74	0.55
1:K:52:PRO:HG2	1:K:56:VAL:HG21	1.88	0.55
1:K:71:VAL:HG12	1:K:71:VAL:O	2.05	0.55
1:K:243:LYS:HG3	1:K:253:ASP:O	2.05	0.55
1:K:471:SER:HA	1:L:407:LEU:HD11	1.88	0.55
1:K:530:ASP:OD1	1:K:530:ASP:C	2.44	0.55
1:L:209:ALA:HB1	1:L:210:PHE:CE1	2.42	0.55
1:L:681:THR:CG2	1:L:682:ARG:N	2.69	0.55
1:L:931:PRO:HD2	1:L:935:VAL:HG13	1.89	0.55
2:N:58:LEU:HD11	2:N:392:LEU:HD22	1.88	0.55
2:N:411:VAL:HG13	2:N:477:LEU:HD11	1.87	0.55
2:N:488:ARG:O	2:N:488:ARG:HG2	2.05	0.55
4:M:98:LEU:C	4:M:100:ARG:N	2.58	0.55
4:M:176:SER:HB2	4:M:192:GLN:HG2	1.89	0.55
5:P:33:GLY:CA	5:P:44:ALA:O	2.51	0.55
5:S:99:GLU:O	5:S:99:GLU:OE1	2.24	0.55
6:U:27:TYR:CD2	6:U:27:TYR:N	2.74	0.55
7:4:21:THR:O	7:4:21:THR:HG23	2.07	0.55
1:A:518:ILE:O	1:A:518:ILE:HG13	2.07	0.55
1:C:403:VAL:HG11	1:C:466:ALA:HB2	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:724:MET:HA	1:C:729:VAL:CA	2.36	0.55
1:C:893:LEU:HD22	6:U:227:ASP:N	2.22	0.55
1:C:910:MET:HE2	1:C:914:THR:HG21	1.83	0.55
1:D:312:LEU:HB3	1:F:204:TRP:HZ2	1.71	0.55
1:D:415:ASN:C	1:E:129:ALA:HB2	2.25	0.55
1:D:649:ALA:HB3	1:D:919:LEU:CD1	2.35	0.55
1:E:189:ALA:O	1:E:241:LYS:HE3	2.05	0.55
1:E:214:ARG:HA	1:E:284:TYR:O	2.07	0.55
1:E:282:ILE:O	1:E:283:LEU:HB2	2.06	0.55
1:E:527:ASP:N	1:E:528:PRO:CD	2.69	0.55
1:F:875:PHE:HE2	1:F:889:GLY:HA2	1.71	0.55
1:G:840:GLN:CB	1:G:841:PRO:HD2	2.31	0.55
1:H:78:TYR:HD2	1:H:695:PHE:HB3	1.69	0.55
1:H:150:GLU:C	1:H:152:ASP:H	2.10	0.55
1:H:350:SER:O	1:H:352:LEU:N	2.39	0.55
1:H:440:TRP:O	1:H:440:TRP:HD1	1.86	0.55
1:H:527:ASP:O	1:H:528:PRO:C	2.45	0.55
1:H:924:ASP:C	1:H:925:VAL:CG1	2.74	0.55
1:I:268:PRO:HB2	1:I:269:PRO:HD2	1.86	0.55
1:I:301:PRO:HG2	1:I:310:ILE:HG22	1.88	0.55
1:I:637:ASP:OD2	1:I:637:ASP:C	2.43	0.55
1:I:774:TYR:CB	1:I:776:ILE:HD13	2.33	0.55
1:J:6:MET:CE	6:U:51:ARG:NH2	2.69	0.55
1:J:38:TYR:CE2	1:K:56:VAL:HG11	2.41	0.55
1:J:264:PRO:HB3	1:L:447:SER:HB2	1.88	0.55
1:J:602:ARG:HH11	1:J:602:ARG:HG2	1.71	0.55
1:J:726:ASP:HB3	1:J:900:ALA:HB3	1.86	0.55
1:J:885:LEU:HB2	1:L:50:VAL:HA	1.88	0.55
1:K:417:THR:O	1:K:417:THR:OG1	2.24	0.55
1:K:531:ASN:CB	1:K:714:LEU:HD21	2.37	0.55
1:K:596:SER:C	1:K:598:GLY:N	2.58	0.55
1:K:732:PRO:HB3	1:K:743:PHE:HZ	1.71	0.55
1:L:93:VAL:HG12	1:L:575:LEU:CD2	2.37	0.55
1:L:368:GLN:NE2	1:L:377:ARG:HH12	2.05	0.55
1:L:747:ARG:HB2	1:L:762:THR:HG21	1.88	0.55
1:L:836:MET:HE3	1:L:837:ARG:HG2	1.88	0.55
2:N:491:VAL:O	2:N:491:VAL:HG23	2.07	0.55
5:P:39:ARG:NE	5:P:41:VAL:CG2	2.69	0.55
5:R:34:SER:O	5:R:43:PRO:CG	2.47	0.55
5:S:73:THR:HG22	5:S:77:LEU:HD12	1.87	0.55
6:U:2:SER:O	6:U:4:GLU:N	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:V:43:ARG:O	6:V:46:GLY:N	2.39	0.55
6:V:186:LEU:O	6:V:190:GLU:OE2	2.23	0.55
7:7:6:PHE:O	7:7:7:ALA:HB2	2.06	0.55
1:A:23:TYR:CE1	1:A:24:LEU:HD22	2.42	0.55
1:A:198:GLN:CB	1:B:839:GLY:H	2.16	0.55
1:A:430:ASN:O	1:A:430:ASN:OD1	2.24	0.55
1:B:161:ALA:HB1	1:B:198:GLN:HB3	1.88	0.55
1:C:134:GLN:CB	1:C:155:LYS:H	2.19	0.55
1:C:241:LYS:NZ	1:C:256:ILE:HG13	2.13	0.55
1:C:790:ARG:HH11	1:C:790:ARG:CB	2.17	0.55
1:D:445:ALA:CB	1:D:450:ASN:ND2	2.68	0.55
1:D:621:PRO:CB	1:E:736:ARG:NH1	2.69	0.55
1:E:49:THR:HB	1:F:884:ALA:N	2.19	0.55
1:E:193:PHE:HE1	1:E:284:TYR:CE1	2.23	0.55
1:E:462:ILE:HG22	1:F:411:CYS:CA	2.36	0.55
1:F:102:ASP:O	1:F:102:ASP:OD2	2.25	0.55
1:F:222:MET:HE1	1:F:311:ASN:HB3	1.88	0.55
1:F:267:SER:HG	1:F:277:TYR:HE2	1.09	0.55
1:F:326:PHE:O	1:F:327:ARG:C	2.45	0.55
1:F:468:LEU:HD23	1:F:468:LEU:C	2.26	0.55
1:F:643:PHE:H	1:F:643:PHE:HD1	1.43	0.55
1:F:659:LYS:HA	1:F:910:MET:O	2.06	0.55
1:G:121:TYR:HE1	1:G:293:PRO:HG2	1.71	0.55
1:G:146:GLY:O	1:G:148:GLN:N	2.38	0.55
1:G:409:ASN:HD21	1:G:464:LEU:HB2	1.69	0.55
1:G:412:PHE:O	1:I:460:MET:HB2	2.07	0.55
1:G:423:TYR:O	1:G:450:ASN:ND2	2.39	0.55
1:H:45:PHE:CD1	1:H:45:PHE:N	2.67	0.55
1:H:140:LYS:HE3	1:H:142:GLY:O	2.07	0.55
1:H:278:LYS:HA	1:H:280:ASP:OD1	2.07	0.55
1:H:548:MET:SD	1:I:521:GLY:O	2.64	0.55
1:H:598:GLY:HA2	1:H:703:GLY:H	1.71	0.55
1:I:173:LEU:CA	1:I:185:LYS:HD3	2.37	0.55
1:I:298:VAL:HG12	1:I:315:GLN:O	2.07	0.55
1:I:422:THR:CG2	1:I:449:GLN:CA	2.84	0.55
1:I:759:CYS:CB	1:I:864:PHE:HB3	2.36	0.55
1:I:836:MET:HG2	1:I:837:ARG:N	2.21	0.55
1:I:842:TYR:CE2	1:I:843:PRO:HD2	2.42	0.55
1:J:107:LEU:CG	1:J:108:ASP:N	2.70	0.55
1:J:118:GLY:H	1:K:402:GLY:HA3	1.72	0.55
1:J:134:GLN:CD	1:J:155:LYS:HD3	2.26	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:817:VAL:HG12	1:L:237:GLY:HA2	1.89	0.55
1:K:443:ASP:CA	1:L:150:GLU:HB3	2.35	0.55
1:K:529:MET:O	1:K:530:ASP:C	2.43	0.55
1:K:737:LEU:HD23	1:K:737:LEU:N	2.21	0.55
2:N:388:SER:C	2:N:390:PRO:HD3	2.27	0.55
4:M:73:LEU:HB2	4:M:94:TYR:CE1	2.40	0.55
4:M:128:GLU:HA	4:M:128:GLU:OE1	2.05	0.55
5:Q:12:LEU:CD1	5:Q:15:PRO:HG2	2.35	0.55
1:A:438:SER:OG	1:B:278:LYS:CB	2.54	0.55
1:A:685:THR:HB	1:A:913:PRO:O	2.06	0.55
1:B:348:GLN:CA	1:B:348:GLN:NE2	2.69	0.55
1:B:635:ARG:HH12	1:B:933:ARG:CA	2.19	0.55
1:C:55:ASP:O	1:C:623:ALA:HB3	2.07	0.55
1:C:625:ASN:OD1	6:U:91:LEU:HB3	2.07	0.55
1:C:922:VAL:HG11	1:C:942:ARG:HD2	1.87	0.55
1:D:20:ALA:N	1:D:47:ASN:HB3	2.18	0.55
1:E:121:TYR:HB2	1:E:227:GLY:C	2.27	0.55
1:E:455:GLY:C	1:F:161:ALA:HB2	2.27	0.55
1:E:543:LEU:HD21	1:E:594:GLN:HE22	1.70	0.55
1:E:675:PHE:HA	1:E:944:PRO:CG	2.37	0.55
1:E:922:VAL:HG12	1:E:944:PRO:HB2	1.88	0.55
1:F:121:TYR:CD2	1:F:229:PHE:HB2	2.42	0.55
1:F:423:TYR:HD1	1:F:452:ILE:HD12	1.70	0.55
1:F:642:SER:OG	1:F:642:SER:O	2.21	0.55
1:G:633:MET:O	1:G:636:ASN:N	2.36	0.55
1:H:31:PHE:HD1	1:H:32:ALA:N	2.05	0.55
1:H:49:THR:CG2	1:I:884:ALA:HB3	2.30	0.55
1:H:924:ASP:O	1:H:925:VAL:HG13	2.07	0.55
1:I:224:PRO:HB3	1:I:314:GLN:HB3	1.88	0.55
1:I:294:ASP:O	1:I:295:THR:HG23	2.07	0.55
1:I:524:TRP:CZ2	1:I:803:ARG:NH1	2.75	0.55
1:I:656:ILE:O	1:I:657:PRO:O	2.24	0.55
1:I:925:VAL:O	1:I:925:VAL:CG2	2.54	0.55
1:J:203:ASN:O	1:J:205:GLN:N	2.34	0.55
1:K:224:PRO:CG	1:K:316:SER:OG	2.54	0.55
1:K:730:SER:HB2	1:K:732:PRO:HD2	1.87	0.55
1:L:650:ALA:CB	1:L:942:ARG:HE	2.12	0.55
1:L:747:ARG:HB2	1:L:762:THR:HG22	1.86	0.55
5:P:16:TYR:HA	5:Q:18:THR:HG21	1.89	0.55
5:Q:39:ARG:CG	5:Q:41:VAL:HG23	2.37	0.55
5:R:9:GLU:CD	5:R:13:PHE:HB2	2.27	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:S:12:LEU:O	5:S:15:PRO:HG2	2.06	0.55
1:A:704:SER:OG	1:A:711:THR:HG21	2.06	0.55
1:B:81:LYS:CA	1:B:584:ASN:HB3	2.36	0.55
1:B:337:ASN:HA	1:B:357:ASP:OD2	2.07	0.55
1:B:517:TYR:CE2	1:B:824:ASN:ND2	2.75	0.55
1:B:875:PHE:CE2	1:B:888:LEU:HG	2.42	0.55
1:C:67:ARG:HB2	1:C:616:TYR:CD1	2.42	0.55
1:C:134:GLN:HB2	1:C:155:LYS:N	2.22	0.55
1:D:184:LYS:O	1:D:184:LYS:HG3	2.07	0.55
1:E:361:ARG:NH2	1:E:567:PHE:CZ	2.74	0.55
1:E:643:PHE:O	1:E:644:ASN:HB3	2.07	0.55
1:F:950:ALA:N	1:H:893:LEU:CD1	2.70	0.55
1:G:224:PRO:HB3	1:G:314:GLN:O	2.06	0.55
1:G:411:CYS:O	1:I:460:MET:HG3	2.07	0.55
1:G:771:LEU:CD1	1:G:777:GLY:HA3	2.37	0.55
1:H:308:SER:O	1:H:311:ASN:HB3	2.07	0.55
1:H:346:ALA:O	1:H:579:TYR:HB3	2.06	0.55
1:H:687:GLU:O	1:H:699:PHE:CE1	2.60	0.55
1:I:139:GLU:OE1	1:I:152:ASP:HB3	2.07	0.55
1:I:189:ALA:HA	1:I:241:LYS:HZ2	1.71	0.55
1:I:210:PHE:CD1	1:I:210:PHE:N	2.73	0.55
1:J:358:LEU:HD13	1:J:942:ARG:HD2	1.88	0.55
1:J:387:ALA:HB3	1:J:546:ARG:HD3	1.89	0.55
1:J:524:TRP:CH2	1:J:863:LYS:CG	2.89	0.55
1:J:875:PHE:CE2	1:J:888:LEU:HB3	2.42	0.55
1:J:925:VAL:CG2	1:L:13:MET:HG3	2.35	0.55
1:K:70:PRO:HA	1:K:84:PHE:CD2	2.42	0.55
1:K:172:LEU:HD11	1:K:193:PHE:CZ	2.42	0.55
1:K:410:TYR:CE2	1:K:461:GLU:HG2	2.42	0.55
1:K:492:VAL:HG23	1:K:492:VAL:O	2.07	0.55
1:L:155:LYS:HG3	1:L:261:PHE:CZ	2.30	0.55
1:L:335:TYR:HE1	1:L:586:ARG:HA	1.71	0.55
1:L:423:TYR:O	1:L:450:ASN:HB3	2.06	0.55
1:L:893:LEU:HD12	6:V:215:ASN:HB3	1.88	0.55
2:N:133:ARG:HH21	2:N:156:TYR:HB2	1.70	0.55
4:M:173:VAL:HG23	4:M:240:PHE:CZ	2.40	0.55
4:M:376:THR:HG22	4:M:376:THR:O	2.07	0.55
1:A:237:GLY:HA2	1:B:817:VAL:CG1	2.33	0.55
1:A:380:TYR:CD1	1:A:380:TYR:N	2.74	0.55
1:A:406:GLU:HB2	1:C:475:SER:OG	2.06	0.55
1:A:579:TYR:CD2	1:A:936:ILE:HD11	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:906:GLU:O	1:A:906:GLU:HG3	2.07	0.55
1:B:235:GLU:C	1:B:237:GLY:H	2.10	0.55
1:B:330:PHE:CZ	1:B:385:ASN:CB	2.89	0.55
1:B:343:GLY:HA3	1:B:583:TRP:CZ3	2.41	0.55
1:B:724:MET:O	1:B:901:LEU:HD12	2.07	0.55
1:C:572:LEU:HD11	1:C:928:VAL:HG21	1.89	0.55
1:D:50:VAL:HB	7:4:22:TRP:HB3	1.88	0.55
1:D:575:LEU:CB	1:D:576:PRO:HD2	2.34	0.55
1:D:587:LYS:HB2	1:D:610:PHE:CE1	2.42	0.55
1:D:731:TRP:CE2	1:D:732:PRO:CD	2.86	0.55
1:D:746:LYS:HG3	1:D:746:LYS:O	2.06	0.55
1:E:6:MET:O	1:E:6:MET:HE2	2.07	0.55
1:E:359:GLN:NE2	1:E:692:GLY:HA2	2.21	0.55
1:E:747:ARG:HH21	1:E:754:TYR:HD1	1.54	0.55
1:F:135:TRP:CH2	1:F:153:VAL:HG12	2.42	0.55
1:F:549:LEU:HD23	1:F:549:LEU:C	2.27	0.55
1:G:38:TYR:OH	1:H:56:VAL:HG11	2.06	0.55
1:G:43:ASN:HA	7:7:8:SER:OG	2.07	0.55
1:G:158:GLY:N	1:I:452:ILE:HG23	2.22	0.55
1:H:241:LYS:HD2	1:H:256:ILE:HD11	1.89	0.55
1:H:358:LEU:CD1	1:H:947:ALA:CB	2.84	0.55
1:H:685:THR:CB	1:H:913:PRO:O	2.54	0.55
1:I:190:ASP:CG	1:I:191:LYS:N	2.60	0.55
1:I:341:ASN:OD1	1:I:341:ASN:N	2.39	0.55
1:J:46:ARG:HH11	1:K:925:VAL:HG11	1.71	0.55
1:J:114:LYS:HG3	1:K:851:ILE:CD1	2.36	0.55
1:J:427:LYS:HB2	1:J:441:GLU:CG	2.37	0.55
1:J:829:THR:HG23	1:J:830:GLY:O	2.06	0.55
1:L:193:PHE:CE2	1:L:284:TYR:HE1	2.19	0.55
1:L:397:ILE:CD1	1:L:799:GLN:NE2	2.70	0.55
1:L:529:MET:O	1:L:529:MET:CE	2.55	0.55
1:L:822:GLN:O	1:L:822:GLN:CG	2.54	0.55
4:M:46:GLN:HB3	7:2:25:ILE:HG22	1.87	0.55
5:P:130:GLN:O	5:P:130:GLN:HG2	2.06	0.55
5:R:22:PRO:HB2	5:R:24:TRP:NE1	2.21	0.55
5:R:27:VAL:O	5:R:28:ARG:CG	2.54	0.55
6:U:168:TYR:O	7:1:31:ASN:N	2.39	0.55
7:9:24:GLU:O	7:9:24:GLU:HG3	2.05	0.55
1:A:838:GLN:HB2	1:C:198:GLN:HG2	1.89	0.55
1:B:10:TRP:HE1	1:C:943:THR:HG21	1.72	0.55
1:B:149:GLN:N	1:B:149:GLN:OE1	2.34	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:371:LEU:CD1	1:B:377:ARG:HH21	2.19	0.55
1:B:381:PHE:HE1	1:C:795:PHE:CE1	2.19	0.55
1:C:196:GLU:CB	1:C:197:PRO:HD3	2.27	0.55
1:D:55:ASP:O	1:D:56:VAL:HG12	2.06	0.55
1:D:572:LEU:HD13	1:D:928:VAL:HG21	1.89	0.55
1:D:917:TYR:O	1:D:917:TYR:CD2	2.60	0.55
1:E:241:LYS:HD2	1:E:256:ILE:HD11	1.89	0.55
1:E:923:PHE:O	1:E:942:ARG:CA	2.49	0.55
1:F:676:ARG:N	1:F:676:ARG:HD3	2.21	0.55
1:F:685:THR:C	1:F:687:GLU:H	2.11	0.55
1:F:740:PRO:HD2	1:J:340:GLY:HA2	1.87	0.55
1:H:118:GLY:HA2	1:H:318:PRO:HG3	1.88	0.55
1:H:470:LYS:NZ	1:H:470:LYS:HB3	2.22	0.55
1:H:509:VAL:O	1:H:509:VAL:HG23	2.07	0.55
1:H:557:PRO:HG2	1:I:860:THR:HG21	1.89	0.55
1:H:868:ARG:HG3	1:H:868:ARG:NH1	2.21	0.55
1:I:36:ASP:OD1	1:I:40:SER:HA	2.07	0.55
1:I:331:VAL:HG12	1:I:565:LYS:NZ	2.22	0.55
1:J:228:SER:HB2	1:J:290:LEU:HD11	1.89	0.55
1:J:840:GLN:HB3	1:L:159:VAL:HG12	1.87	0.55
1:K:140:LYS:HB3	1:K:147:VAL:H	1.71	0.55
1:K:688:THR:C	1:K:699:PHE:HE1	2.10	0.55
1:K:731:TRP:C	1:K:731:TRP:CD2	2.74	0.55
1:K:842:TYR:CD2	1:K:843:PRO:HD2	2.42	0.55
1:L:707:TYR:CE1	1:L:917:TYR:HE2	2.25	0.55
1:L:905:PHE:CG	1:L:916:LEU:HD21	2.41	0.55
7:6:11:PRO:HG2	7:6:12:ARG:H	1.72	0.55
7:7:9:LEU:O	7:7:10:ALA:HB3	2.06	0.55
1:A:680:PHE:CG	1:A:905:PHE:HE2	2.25	0.55
1:A:756:VAL:CG1	1:A:757:ALA:N	2.70	0.55
1:B:421:SER:O	1:B:451:GLN:HB3	2.07	0.55
1:C:28:LEU:HG	1:C:28:LEU:O	2.07	0.55
1:C:43:ASN:HA	7:2:8:SER:HB2	1.89	0.55
1:C:191:LYS:CG	1:C:194:GLN:HE21	2.19	0.55
1:C:216:LEU:O	1:C:217:LYS:O	2.25	0.55
1:C:682:ARG:NH2	1:C:910:MET:HB2	2.15	0.55
1:C:799:GLN:NE2	1:C:799:GLN:CA	2.68	0.55
1:C:809:ILE:CG1	1:C:810:ASN:H	2.09	0.55
1:D:150:GLU:O	1:D:152:ASP:N	2.33	0.55
1:D:295:THR:OG1	1:D:295:THR:CG2	2.42	0.55
1:D:397:ILE:HD11	1:D:799:GLN:HG3	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:415:ASN:OD1	1:D:416:GLY:N	2.39	0.55
1:D:606:ALA:O	1:D:608:VAL:N	2.40	0.55
1:D:914:THR:HG22	1:D:915:LEU:N	2.20	0.55
1:D:928:VAL:CA	1:D:937:GLU:O	2.49	0.55
1:E:235:GLU:HB2	1:F:816:ALA:HB3	1.89	0.55
1:E:376:ASP:CG	1:E:377:ARG:N	2.60	0.55
1:E:409:ASN:HB2	1:E:462:ILE:O	2.07	0.55
1:E:543:LEU:HD22	1:E:594:GLN:HE22	1.70	0.55
1:E:544:ARG:HE	1:F:401:HIS:CD2	2.25	0.55
1:F:96:MET:CB	1:F:572:LEU:O	2.54	0.55
1:F:190:ASP:HB2	1:F:236:LYS:HB3	1.89	0.55
1:F:192:THR:O	1:F:193:PHE:CG	2.55	0.55
1:F:564:GLN:HG2	1:F:581:TYR:OH	2.08	0.55
1:F:731:TRP:CE3	1:F:732:PRO:HA	2.43	0.55
1:G:262:ASP:O	1:I:423:TYR:HB3	2.07	0.55
1:G:413:PRO:CD	1:G:458:TYR:O	2.53	0.55
1:G:524:TRP:HZ3	1:G:802:SER:HA	1.72	0.55
1:G:695:PHE:CZ	5:R:76:ARG:HD2	2.39	0.55
1:G:829:THR:O	1:G:837:ARG:HA	2.07	0.55
1:H:74:GLU:HG3	1:H:74:GLU:O	2.07	0.55
1:H:384:TRP:CE3	1:H:384:TRP:HA	2.42	0.55
1:H:413:PRO:HD3	1:H:458:TYR:O	2.07	0.55
1:H:661:THR:O	1:H:662:ASN:HB3	2.07	0.55
1:H:863:LYS:HA	5:R:54:VAL:CG2	2.36	0.55
1:I:189:ALA:CA	1:I:241:LYS:NZ	2.68	0.55
1:I:209:ALA:HB1	1:I:210:PHE:CD1	2.42	0.55
1:I:396:ARG:HH11	1:I:396:ARG:HG2	1.72	0.55
1:I:422:THR:HG21	1:I:449:GLN:HB2	1.89	0.55
1:I:566:PHE:CG	1:I:567:PHE:N	2.75	0.55
1:I:748:SER:HA	5:S:54:VAL:HG13	1.88	0.55
1:I:846:PHE:HB3	1:I:847:PRO:HD3	1.88	0.55
1:I:917:TYR:CE1	1:I:919:LEU:HD12	2.42	0.55
1:J:212:GLY:HA2	1:J:282:ILE:O	2.07	0.55
1:J:276:GLU:HB2	1:L:440:TRP:CH2	2.39	0.55
1:J:414:LEU:HD11	1:K:837:ARG:CG	2.35	0.55
1:J:717:THR:HG22	1:J:717:THR:O	2.07	0.55
1:K:131:ASN:ND2	1:K:131:ASN:N	2.30	0.55
1:K:721:VAL:CG2	1:K:905:PHE:CE1	2.90	0.55
1:K:732:PRO:HB3	1:K:743:PHE:CZ	2.41	0.55
1:L:47:ASN:CB	1:L:48:PRO:HD2	2.37	0.55
1:L:180:ALA:O	1:L:181:GLU:HB2	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:759:CYS:SG	1:L:864:PHE:CB	2.93	0.55
1:L:773:HIS:NE2	1:L:794:PHE:CB	2.63	0.55
2:N:54:THR:O	2:N:511:PRO:HD2	2.06	0.55
2:N:62:LYS:HZ1	2:N:75:HIS:CE1	2.25	0.55
5:P:13:PHE:CD1	5:P:13:PHE:C	2.80	0.55
5:R:70:ALA:O	5:R:73:THR:HG22	2.07	0.55
5:R:115:LEU:O	5:R:115:LEU:HD23	2.07	0.55
7:4:16:ARG:HH11	7:4:16:ARG:HG2	1.72	0.55
7:5:5:ASN:N	7:5:5:ASN:ND2	2.55	0.55
1:A:26:PRO:HG2	4:M:14:LEU:O	2.08	0.54
1:A:811:TYR:CD1	1:A:857:PRO:HD2	2.41	0.54
1:A:842:TYR:CG	1:A:843:PRO:HD2	2.42	0.54
1:C:58:THR:HG21	1:C:62:GLN:NE2	2.21	0.54
1:C:67:ARG:HA	1:C:615:LEU:O	2.07	0.54
1:C:426:VAL:HG12	1:C:427:LYS:N	2.13	0.54
1:C:543:LEU:HA	1:C:546:ARG:HH12	1.72	0.54
1:C:698:TYR:O	1:C:700:VAL:HG22	2.07	0.54
1:D:197:PRO:HD3	1:E:831:TYR:HE1	1.72	0.54
1:D:198:GLN:CG	1:E:838:GLN:CB	2.59	0.54
1:D:676:ARG:NH2	7:4:5:ASN:ND2	2.55	0.54
1:E:90:ASP:C	1:E:91:ASN:OD1	2.45	0.54
1:E:177:ASP:O	1:E:181:GLU:HG3	2.08	0.54
1:E:344:VAL:CG2	1:E:345:LEU:N	2.69	0.54
1:E:513:LEU:HD13	1:E:819:LEU:HD13	1.89	0.54
1:E:686:LYS:HG2	1:E:686:LYS:O	2.06	0.54
1:E:833:ALA:C	1:E:835:THR:N	2.60	0.54
1:E:937:GLU:HB2	6:U:110:GLY:CA	2.36	0.54
1:F:45:PHE:CE2	7:4:9:LEU:HD22	2.41	0.54
1:G:126:PRO:O	1:G:128:GLY:N	2.40	0.54
1:G:143:THR:HG22	1:G:144:THR:CA	2.36	0.54
1:G:821:PHE:HB3	1:I:237:GLY:HA3	1.89	0.54
1:H:103:ILE:HG12	1:H:613:VAL:HG12	1.87	0.54
1:I:193:PHE:HE1	1:I:284:TYR:CD1	2.17	0.54
1:I:198:GLN:C	1:I:200:GLY:N	2.53	0.54
1:I:462:ILE:CG1	1:I:463:ASN:H	2.13	0.54
1:I:705:ILE:O	1:I:707:TYR:N	2.41	0.54
1:I:808:GLU:HA	1:I:814:TYR:HD2	1.72	0.54
1:J:84:PHE:CD1	1:J:84:PHE:N	2.75	0.54
1:J:726:ASP:O	1:J:726:ASP:CG	2.46	0.54
1:K:358:LEU:CD1	1:K:942:ARG:NE	2.52	0.54
1:K:397:ILE:CG2	1:K:865:LEU:HD12	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:423:TYR:C	1:K:449:GLN:HB3	2.28	0.54
1:K:778:TYR:HE2	1:K:880:MET:SD	2.30	0.54
1:K:871:TRP:HA	1:K:871:TRP:HE3	1.71	0.54
1:L:672:TRP:CH2	1:L:899:HIS:O	2.60	0.54
1:L:691:LEU:HD21	1:L:708:LEU:CD2	2.36	0.54
4:M:180:GLN:OE1	4:M:187:PHE:HB2	2.06	0.54
5:R:66:ALA:O	5:R:70:ALA:HB2	2.06	0.54
6:V:79:VAL:HA	6:V:187:GLN:HE21	1.72	0.54
1:A:648:SER:HB2	1:A:922:VAL:O	2.07	0.54
1:A:929:HIS:O	1:A:930:GLN:HG2	2.06	0.54
1:B:239:GLN:CG	1:C:842:TYR:CE2	2.89	0.54
1:B:408:PRO:HB2	1:B:410:TYR:CE1	2.42	0.54
1:B:427:LYS:HB2	1:B:441:GLU:HG3	1.90	0.54
1:B:668:PRO:HG2	2:N:88:PHE:CE2	2.42	0.54
1:B:821:PHE:CD1	1:B:821:PHE:N	2.76	0.54
1:B:885:LEU:HD13	1:B:890:GLN:HE21	1.72	0.54
1:D:749:VAL:HG12	1:D:749:VAL:O	2.07	0.54
1:E:215:ALA:HB3	1:E:285:THR:HG22	1.88	0.54
1:E:222:MET:HE3	1:E:307:SER:OG	2.08	0.54
1:E:278:LYS:O	1:E:278:LYS:CD	2.55	0.54
1:E:494:LEU:HD21	1:E:506:GLY:CA	2.34	0.54
1:F:432:ASN:OD1	1:F:433:ASP:OD1	2.25	0.54
1:G:231:ARG:HB2	1:G:232:PRO:HD2	1.88	0.54
1:H:106:VAL:CG1	5:S:59:LEU:CD2	2.72	0.54
1:H:262:ASP:HA	1:H:279:ALA:O	2.06	0.54
1:H:362:ASN:HD21	1:H:365:LEU:HB3	1.71	0.54
1:H:865:LEU:CD1	1:H:866:CYS:H	2.17	0.54
1:I:422:THR:HG22	1:I:451:GLN:N	2.22	0.54
1:I:648:SER:CB	1:I:922:VAL:O	2.55	0.54
1:I:715:ASN:N	1:I:715:ASN:HD22	2.05	0.54
1:I:720:LYS:HG2	1:I:744:GLU:OE1	2.07	0.54
1:J:56:VAL:CG2	7:9:24:GLU:HG2	2.32	0.54
1:J:572:LEU:HD23	1:J:643:PHE:HZ	1.69	0.54
1:J:886:THR:O	1:J:889:GLY:N	2.40	0.54
1:K:163:GLY:O	1:K:174:LEU:HD22	2.05	0.54
1:K:243:LYS:CA	1:K:253:ASP:O	2.44	0.54
1:K:476:ASN:O	1:K:537:HIS:HE1	1.90	0.54
1:L:161:ALA:HB2	1:L:198:GLN:NE2	2.18	0.54
1:L:258:PHE:CD2	1:L:284:TYR:CE2	2.95	0.54
1:L:478:ALA:HA	1:L:514:VAL:HG11	1.90	0.54
2:N:66:ILE:HG22	2:N:66:ILE:O	2.06	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:503:TYR:C	2:N:503:TYR:HD1	2.11	0.54
4:M:272:THR:HG22	4:M:276:ILE:HD11	1.89	0.54
7:4:9:LEU:O	7:4:9:LEU:CG	2.47	0.54
7:4:10:ALA:N	7:4:11:PRO:CD	2.69	0.54
1:A:4:PRO:HG3	2:N:103:ARG:HE	1.72	0.54
1:A:72:ASP:HB3	1:A:83:ARG:HD3	1.89	0.54
1:A:195:PRO:HG2	1:B:823:HIS:CD2	2.43	0.54
1:A:665:ILE:HG22	1:A:666:SER:N	2.22	0.54
1:A:718:PHE:O	1:A:746:LYS:HG2	2.07	0.54
1:B:13:MET:CB	1:C:925:VAL:CG2	2.85	0.54
1:B:77:THR:HG22	1:B:78:TYR:HD2	1.72	0.54
1:B:196:GLU:HG3	1:B:197:PRO:N	2.22	0.54
1:B:224:PRO:HG2	1:B:316:SER:OG	2.07	0.54
1:B:918:LEU:CD2	1:B:920:PHE:CZ	2.91	0.54
1:B:933:ARG:NH2	4:M:92:LEU:CD2	2.64	0.54
1:C:445:ALA:O	1:C:446:ILE:C	2.44	0.54
1:C:656:ILE:HD11	1:C:916:LEU:HB2	1.90	0.54
1:D:111:PRO:HG3	1:D:554:ARG:CZ	2.35	0.54
1:E:756:VAL:CG2	1:E:763:LYS:HA	2.36	0.54
1:F:33:ARG:NE	7:4:12:ARG:HB3	2.22	0.54
1:F:317:MET:O	1:F:317:MET:HG3	2.07	0.54
1:F:603:VAL:CA	5:R:40:PRO:HB3	2.18	0.54
1:G:589:VAL:HG23	1:G:593:LEU:CD2	2.34	0.54
1:G:635:ARG:HD3	1:G:931:PRO:O	2.07	0.54
1:G:673:ALA:CB	1:G:943:THR:CG2	2.69	0.54
1:H:483:ASP:OD2	1:H:483:ASP:O	2.25	0.54
1:H:524:TRP:HZ3	1:H:802:SER:HA	1.72	0.54
1:H:575:LEU:CD1	1:H:631:GLU:HG2	2.28	0.54
1:H:602:ARG:HB3	5:Q:35:THR:HG1	1.72	0.54
1:H:676:ARG:HD3	1:H:884:ALA:O	2.07	0.54
1:H:767:LEU:HD13	1:H:767:LEU:C	2.27	0.54
1:H:949:ASN:H	1:H:952:THR:HG22	1.71	0.54
1:I:6:MET:C	1:I:8:PRO:HD2	2.27	0.54
1:I:409:ASN:HD22	1:I:462:ILE:HG23	1.71	0.54
1:J:95:ASP:OD2	1:K:779:GLN:HG3	2.07	0.54
1:J:153:VAL:HG13	1:L:449:GLN:HG3	1.88	0.54
1:J:635:ARG:HG3	1:J:635:ARG:HH11	1.72	0.54
1:J:636:ASN:HD21	1:J:638:THR:N	1.98	0.54
1:J:875:PHE:CD2	1:J:888:LEU:HB2	2.41	0.54
1:K:239:GLN:CG	1:K:240:ALA:H	2.20	0.54
1:K:249:GLU:O	5:S:134:LYS:HE3	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:396:ARG:HD3	1:K:396:ARG:C	2.27	0.54
1:K:478:ALA:HB2	1:K:514:VAL:HG11	1.88	0.54
1:K:811:TYR:CD2	1:K:814:TYR:HB2	2.42	0.54
1:K:929:HIS:HB2	6:U:40:MET:HE1	1.89	0.54
1:L:155:LYS:HZ1	1:L:259:ALA:HB3	1.69	0.54
1:L:268:PRO:N	1:L:277:TYR:CE2	2.75	0.54
1:L:497:ASN:O	1:L:500:THR:HG21	2.00	0.54
1:L:695:PHE:O	1:L:695:PHE:CD2	2.60	0.54
5:P:36:VAL:H	5:P:43:PRO:CG	2.16	0.54
5:Q:16:TYR:CZ	5:R:18:THR:CB	2.90	0.54
5:R:9:GLU:HG2	5:R:13:PHE:HB3	1.88	0.54
5:R:19:THR:C	5:R:20:ARG:O	2.43	0.54
6:U:81:GLN:NE2	6:U:178:PRO:HA	2.22	0.54
1:A:36:ASP:C	1:A:38:TYR:N	2.59	0.54
1:A:88:VAL:HG13	1:A:577:GLY:H	1.73	0.54
1:A:456:ASN:ND2	1:C:837:ARG:HG3	2.22	0.54
1:A:456:ASN:HD21	1:C:838:GLN:N	2.01	0.54
1:A:759:CYS:SG	1:A:864:PHE:HB3	2.47	0.54
1:A:816:ALA:O	1:C:235:GLU:CB	2.52	0.54
1:B:58:THR:HG22	1:B:59:ASP:N	2.22	0.54
1:B:179:THR:C	1:B:181:GLU:H	2.11	0.54
1:B:241:LYS:NZ	1:B:256:ILE:HD13	2.22	0.54
1:B:242:PHE:HE1	1:B:287:ASN:HB3	1.55	0.54
1:B:510:ALA:CA	1:B:832:LEU:O	2.52	0.54
1:B:724:MET:SD	1:B:728:SER:C	2.86	0.54
1:B:731:TRP:C	1:B:733:GLY:N	2.58	0.54
1:B:846:PHE:CD2	1:B:846:PHE:C	2.78	0.54
1:C:489:PRO:HG2	1:C:492:VAL:CG2	2.33	0.54
1:C:731:TRP:CZ2	1:C:888:LEU:CD1	2.90	0.54
1:E:894:TYR:N	1:E:894:TYR:CD1	2.75	0.54
1:F:115:PRO:O	1:F:116:TYR:HB3	2.07	0.54
1:F:151:LYS:CE	1:F:218:LYS:HB2	2.28	0.54
1:F:152:ASP:O	1:F:153:VAL:C	2.45	0.54
1:F:165:ILE:CG1	1:F:174:LEU:O	2.55	0.54
1:F:321:PRO:CG	1:F:538:PRO:HB3	2.28	0.54
1:F:656:ILE:HG12	1:F:914:THR:O	2.07	0.54
1:F:730:SER:O	1:F:732:PRO:CD	2.41	0.54
1:F:831:TYR:CA	1:F:838:GLN:NE2	2.65	0.54
1:G:407:LEU:HD11	1:I:474:TYR:HB3	1.89	0.54
1:G:683:LEU:O	1:G:915:LEU:HB2	2.07	0.54
1:G:811:TYR:HD1	1:G:857:PRO:HD2	1.73	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:840:GLN:HB2	1:G:841:PRO:CD	2.34	0.54
1:H:339:THR:HG22	1:J:740:PRO:HB2	1.90	0.54
1:H:747:ARG:HH11	1:H:754:TYR:CB	2.19	0.54
1:I:6:MET:O	1:I:7:MET:C	2.45	0.54
1:I:564:GLN:O	1:I:564:GLN:HG3	2.07	0.54
1:I:723:ILE:HD12	1:I:723:ILE:N	2.22	0.54
1:I:918:LEU:HD12	1:I:919:LEU:H	1.73	0.54
1:J:277:TYR:HB2	1:J:277:TYR:HD1	1.59	0.54
1:J:853:GLN:HA	1:L:554:ARG:HH12	1.68	0.54
1:K:102:ASP:OD1	1:K:559:HIS:CE1	2.60	0.54
1:K:144:THR:HG22	1:K:144:THR:O	2.08	0.54
1:K:168:THR:C	1:K:170:GLN:H	2.09	0.54
1:K:485:TYR:HB3	1:K:513:LEU:CD2	2.35	0.54
1:K:545:TYR:CD2	1:K:545:TYR:C	2.79	0.54
1:L:107:LEU:HD22	1:L:326:PHE:CE1	2.42	0.54
1:L:135:TRP:CH2	1:L:309:GLU:HB3	2.43	0.54
1:L:204:TRP:CE2	1:L:415:ASN:HB2	2.42	0.54
4:M:330:PHE:CE1	4:M:343:ASP:HB2	2.43	0.54
5:R:77:LEU:HD12	5:R:77:LEU:O	2.07	0.54
6:V:13:TYR:HD1	6:V:188:PHE:CE1	2.25	0.54
6:V:79:VAL:HA	6:V:187:GLN:NE2	2.22	0.54
1:A:243:LYS:C	1:A:245:VAL:H	2.10	0.54
1:A:412:PHE:CE2	1:A:459:ALA:HB2	2.43	0.54
1:A:444:ASP:HA	1:B:152:ASP:CA	2.28	0.54
1:A:445:ALA:CB	1:A:449:GLN:HB2	2.37	0.54
1:A:503:TYR:CZ	1:A:507:ARG:HD2	2.42	0.54
1:A:663:VAL:O	1:A:663:VAL:HG13	2.07	0.54
1:A:690:SER:C	1:A:692:GLY:H	2.10	0.54
1:B:231:ARG:CG	1:B:232:PRO:HD2	2.37	0.54
1:B:404:GLU:O	1:B:404:GLU:CG	2.52	0.54
1:C:6:MET:CE	1:C:6:MET:CA	2.84	0.54
1:C:24:LEU:O	1:C:25:SER:C	2.45	0.54
1:C:749:VAL:C	1:C:750:ASP:OD1	2.40	0.54
1:D:387:ALA:HB3	1:D:546:ARG:HD3	1.88	0.54
1:D:639:HIS:HB3	1:F:24:LEU:HD22	1.89	0.54
1:E:44:LYS:HB3	1:F:641:GLN:HB3	1.89	0.54
1:E:204:TRP:HE3	1:F:313:VAL:CG1	2.09	0.54
1:E:240:ALA:O	1:E:288:VAL:HG12	2.08	0.54
1:E:247:GLU:O	1:E:249:GLU:HG2	2.07	0.54
1:E:625:ASN:OD1	1:E:625:ASN:C	2.44	0.54
1:E:937:GLU:OE2	6:U:160:SER:HA	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:334:MET:HE1	1:F:336:TYR:OH	2.08	0.54
1:H:79:LEU:HD23	1:H:584:ASN:HD21	1.70	0.54
1:H:476:ASN:HD21	1:H:539:ARG:HH12	1.54	0.54
1:H:494:LEU:HD22	1:H:495:PRO:HD2	1.89	0.54
1:I:24:LEU:O	1:I:25:SER:C	2.46	0.54
1:I:276:GLU:O	1:I:277:TYR:O	2.24	0.54
1:I:866:CYS:SG	1:I:867:ASP:N	2.80	0.54
1:J:18:GLN:NE2	1:J:19:ASP:H	2.06	0.54
1:J:135:TRP:O	1:J:154:THR:OG1	2.22	0.54
1:J:151:LYS:O	1:L:444:ASP:OD1	2.26	0.54
1:J:200:GLY:O	1:J:202:GLU:N	2.41	0.54
1:J:396:ARG:HG2	1:J:396:ARG:NH1	2.23	0.54
1:J:407:LEU:HD11	1:L:471:SER:HA	1.90	0.54
1:K:58:THR:HB	1:K:622:MET:C	2.27	0.54
1:K:642:SER:HB3	1:K:926:VAL:O	2.08	0.54
1:L:798:PHE:O	1:L:798:PHE:HD2	1.85	0.54
4:M:159:TYR:CE2	4:M:163:ILE:HD11	2.42	0.54
4:M:326:SER:OG	4:M:344:MET:HG2	2.07	0.54
5:R:77:LEU:HG	5:R:78:ALA:N	2.23	0.54
1:A:235:GLU:HB3	1:B:815:LYS:CB	2.33	0.54
1:A:278:LYS:NZ	1:C:437:GLU:CD	2.60	0.54
1:B:130:PRO:HB3	1:B:312:LEU:CD1	2.37	0.54
1:B:444:ASP:O	1:B:446:ILE:N	2.41	0.54
1:B:507:ARG:HB3	1:B:507:ARG:CZ	2.37	0.54
1:B:523:ARG:HB3	1:B:523:ARG:NH1	2.21	0.54
1:B:585:PHE:CE1	1:B:613:VAL:HG11	2.42	0.54
1:B:670:ARG:HH12	2:N:92:GLU:CG	2.21	0.54
1:B:824:ASN:HA	1:B:844:ALA:CB	2.34	0.54
1:D:25:SER:HB2	1:E:639:HIS:CE1	2.43	0.54
1:D:193:PHE:HE2	1:E:840:GLN:CD	2.11	0.54
1:D:205:GLN:OE1	1:D:205:GLN:N	2.41	0.54
1:D:828:PHE:HE1	1:F:125:ALA:HB2	1.72	0.54
1:E:14:HIS:NE2	1:E:23:TYR:CE2	2.76	0.54
1:E:624:HIS:O	1:E:625:ASN:C	2.45	0.54
1:F:115:PRO:CB	1:F:323:TYR:CE1	2.90	0.54
1:F:474:TYR:CD2	1:F:474:TYR:C	2.79	0.54
1:F:744:GLU:HG2	1:F:747:ARG:HH21	1.73	0.54
1:F:782:HIS:ND1	1:F:782:HIS:N	2.51	0.54
1:F:803:ARG:NH1	1:F:805:VAL:CG2	2.71	0.54
1:F:950:ALA:O	1:H:894:TYR:CE1	2.60	0.54
1:G:850:LEU:O	1:G:850:LEU:HG	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:19:ASP:O	1:H:23:TYR:CD2	2.60	0.54
1:H:65:THR:HG23	1:I:738:LEU:HD13	1.90	0.54
1:H:653:LEU:HD23	1:H:915:LEU:HD22	1.88	0.54
1:H:867:ASP:O	1:H:868:ARG:HB3	2.07	0.54
1:H:912:GLU:CB	1:H:913:PRO:CD	2.84	0.54
1:H:927:ARG:HB3	1:H:939:VAL:HG23	1.90	0.54
1:I:449:GLN:O	1:I:449:GLN:CG	2.43	0.54
1:I:515:ASP:HB3	1:I:517:TYR:CZ	2.42	0.54
1:I:575:LEU:HD13	1:I:631:GLU:CG	2.38	0.54
1:J:112:SER:HB2	1:J:501:TYR:CG	2.43	0.54
1:J:413:PRO:HD3	1:J:458:TYR:O	2.07	0.54
1:J:796:ARG:HG3	1:J:796:ARG:NH1	2.12	0.54
1:K:327:ARG:CZ	1:K:594:GLN:HB3	2.37	0.54
1:K:808:GLU:C	1:K:810:ASN:H	2.11	0.54
1:K:926:VAL:HG12	1:K:940:TYR:CE2	2.43	0.54
1:L:268:PRO:CB	1:L:269:PRO:HD2	2.37	0.54
2:N:118:MET:CE	2:N:416:MET:SD	2.95	0.54
2:N:178:ASN:ND2	2:N:203:PHE:H	2.05	0.54
2:N:271:LEU:HD23	2:N:367:VAL:HG11	1.88	0.54
2:N:455:ARG:CG	2:N:456:PRO:CD	2.79	0.54
4:M:109:VAL:HG12	4:M:109:VAL:O	2.08	0.54
4:M:238:ALA:HB3	4:M:239:PRO:HD3	1.90	0.54
6:U:43:ARG:C	6:U:45:ASN:N	2.61	0.54
6:U:185:THR:HG22	6:U:186:LEU:CD2	2.31	0.54
6:V:69:LEU:HG	6:V:211:GLU:HG3	1.89	0.54
7:1:17:PRO:HG2	7:1:25:ILE:CG2	2.37	0.54
7:9:19:MET:C	7:9:20:GLY:O	2.44	0.54
1:A:217:LYS:HA	1:A:285:THR:HG22	1.88	0.54
1:A:239:GLN:HG2	1:A:240:ALA:H	1.73	0.54
1:A:239:GLN:HG2	1:A:240:ALA:N	2.23	0.54
1:A:824:ASN:O	1:A:825:ASN:C	2.46	0.54
1:B:42:GLY:HA2	7:1:9:LEU:CG	2.37	0.54
1:B:135:TRP:CD2	1:B:153:VAL:HG21	2.42	0.54
1:B:652:MET:HE3	2:N:92:GLU:OE1	2.07	0.54
1:B:929:HIS:N	1:B:937:GLU:HB2	2.22	0.54
1:C:298:VAL:HG21	1:C:317:MET:HB3	1.90	0.54
1:C:531:ASN:OD1	1:C:531:ASN:N	2.41	0.54
1:C:536:ASN:HB3	1:C:596:SER:O	2.08	0.54
1:C:684:LYS:HE3	1:C:912:GLU:HG2	1.80	0.54
1:D:170:GLN:OE1	1:D:185:LYS:HG3	2.07	0.54
1:D:426:VAL:CG2	1:E:260:TYR:HB2	2.31	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:639:HIS:CB	1:F:24:LEU:HD22	2.37	0.54
1:D:640:ASP:N	1:D:640:ASP:OD2	2.40	0.54
1:F:515:ASP:O	1:F:517:TYR:N	2.40	0.54
1:F:712:PHE:HD2	1:F:712:PHE:H	1.50	0.54
1:G:139:GLU:CG	1:G:140:LYS:N	2.67	0.54
1:G:348:GLN:HB2	1:G:578:SER:O	2.07	0.54
1:G:565:LYS:HG2	1:G:565:LYS:O	2.06	0.54
1:G:650:ALA:HB1	1:G:942:ARG:NH2	2.22	0.54
1:G:653:LEU:O	1:G:653:LEU:HD12	2.07	0.54
1:H:155:LYS:C	1:H:157:PHE:N	2.61	0.54
1:H:193:PHE:HZ	1:H:198:GLN:HA	1.72	0.54
1:H:198:GLN:O	1:H:200:GLY:N	2.40	0.54
1:H:378:THR:HG22	1:H:378:THR:O	2.07	0.54
1:H:409:ASN:O	1:H:461:GLU:CB	2.54	0.54
1:H:443:ASP:C	1:I:152:ASP:HA	2.28	0.54
1:H:629:THR:C	1:H:631:GLU:N	2.58	0.54
1:H:663:VAL:O	1:H:663:VAL:CG1	2.56	0.54
1:H:842:TYR:CD1	1:H:843:PRO:HD2	2.43	0.54
1:I:187:ILE:O	1:I:189:ALA:N	2.38	0.54
1:I:597:LEU:CD2	1:I:599:ASN:HB3	2.35	0.54
1:J:56:VAL:HG21	7:9:24:GLU:HB3	1.88	0.54
1:J:773:HIS:CE1	1:J:872:ARG:HH22	2.26	0.54
1:J:842:TYR:CG	1:J:843:PRO:HD2	2.42	0.54
1:J:886:THR:CG2	1:J:888:LEU:H	2.19	0.54
1:K:164:GLY:CA	1:K:173:LEU:O	2.55	0.54
1:K:467:ASN:OD1	1:L:409:ASN:HB3	2.08	0.54
1:L:365:LEU:O	1:L:365:LEU:HG	2.07	0.54
2:N:189:GLY:C	2:N:194:VAL:HG22	2.27	0.54
1:A:167:ILE:CD1	1:A:172:LEU:HG	2.38	0.54
1:A:193:PHE:HE1	1:B:840:GLN:NE2	2.06	0.54
1:A:882:MET:SD	1:C:56:VAL:CG1	2.94	0.54
1:B:123:SER:HA	1:B:226:TYR:CD1	2.42	0.54
1:B:298:VAL:HG23	1:B:317:MET:H	1.71	0.54
1:C:497:ASN:HD22	1:C:497:ASN:N	2.01	0.54
1:C:632:ALA:HA	1:C:635:ARG:HG2	1.89	0.54
1:D:155:LYS:NZ	1:D:259:ALA:CB	2.71	0.54
1:D:237:GLY:HA2	1:E:817:VAL:CG1	2.38	0.54
1:D:268:PRO:O	1:D:275:GLU:O	2.25	0.54
1:D:411:CYS:CB	1:F:462:ILE:HB	2.37	0.54
1:D:543:LEU:O	1:D:543:LEU:HD12	2.08	0.54
1:D:608:VAL:O	1:D:608:VAL:HG13	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:13:MET:HE1	1:F:927:ARG:HG2	1.89	0.54
1:F:441:GLU:HA	1:F:446:ILE:CD1	2.38	0.54
1:F:806:VAL:CG1	1:F:856:VAL:HG13	2.37	0.54
1:G:67:ARG:O	1:G:67:ARG:HG2	2.08	0.54
1:G:72:ASP:OD2	1:G:83:ARG:HB3	2.07	0.54
1:G:194:GLN:NE2	1:H:821:PHE:HB3	2.23	0.54
1:G:445:ALA:HA	1:H:152:ASP:HB2	1.89	0.54
1:G:706:PRO:HA	1:G:711:THR:HG22	1.89	0.54
1:G:893:LEU:HD23	1:G:894:TYR:HD1	1.72	0.54
1:H:95:ASP:OD2	1:H:97:ALA:HB3	2.08	0.54
1:H:170:GLN:OE1	1:H:185:LYS:HG3	2.08	0.54
1:H:629:THR:C	1:H:631:GLU:H	2.08	0.54
1:H:804:GLN:HG2	1:H:860:THR:HG22	1.90	0.54
1:I:53:THR:HG22	1:I:54:HIS:N	2.21	0.54
1:I:115:PRO:HA	1:I:323:TYR:CE1	2.43	0.54
1:I:262:ASP:CG	1:I:279:ALA:H	2.11	0.54
1:I:355:VAL:HA	1:I:940:TYR:OH	2.08	0.54
1:I:784:PRO:HD2	1:I:795:PHE:CE2	2.42	0.54
1:J:6:MET:HE2	6:U:51:ARG:NH2	2.22	0.54
1:J:131:ASN:CB	1:J:225:CYS:HB2	2.33	0.54
1:J:269:PRO:CA	1:J:274:GLY:O	2.52	0.54
1:J:457:VAL:O	1:L:837:ARG:NH1	2.41	0.54
1:J:635:ARG:CG	1:J:931:PRO:O	2.55	0.54
1:J:662:ASN:O	5:P:12:LEU:HD23	2.07	0.54
1:J:774:TYR:CZ	1:J:784:PRO:HG3	2.42	0.54
1:J:943:THR:CB	1:J:944:PRO:CD	2.81	0.54
1:K:81:LYS:HA	1:K:584:ASN:HB3	1.89	0.54
1:K:937:GLU:CD	6:U:37:GLY:N	2.41	0.54
1:L:118:GLY:HA2	1:L:318:PRO:HB3	1.89	0.54
1:L:165:ILE:C	1:L:210:PHE:CE1	2.80	0.54
1:L:288:VAL:O	1:L:290:LEU:N	2.40	0.54
1:L:347:GLY:HA2	1:L:579:TYR:CD1	2.43	0.54
1:L:723:ILE:HG23	1:L:901:LEU:HD12	1.89	0.54
1:A:342:MET:O	1:A:342:MET:HG3	2.08	0.54
1:A:427:LYS:O	1:A:428:ILE:CG2	2.55	0.54
1:A:759:CYS:O	1:A:761:MET:N	2.30	0.54
1:B:66:LEU:HD12	1:B:68:PHE:CZ	2.42	0.54
1:B:81:LYS:HB2	1:B:584:ASN:CB	2.38	0.54
1:B:96:MET:HG2	1:B:569:ILE:HG22	1.88	0.54
1:B:141:GLN:HE21	1:B:148:GLN:CB	2.08	0.54
1:B:239:GLN:NE2	1:B:240:ALA:N	2.35	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:419:THR:O	1:B:419:THR:CG2	2.55	0.54
1:B:423:TYR:HB3	1:C:262:ASP:O	2.08	0.54
1:B:643:PHE:CD1	1:B:643:PHE:N	2.71	0.54
1:C:79:LEU:CD1	1:C:335:TYR:HE2	2.20	0.54
1:C:151:LYS:HD3	1:C:154:THR:HG21	1.89	0.54
1:C:257:ASP:C	1:C:258:PHE:CD1	2.81	0.54
1:C:902:ASP:OD1	1:C:902:ASP:O	2.25	0.54
1:D:83:ARG:CG	1:D:582:GLU:HB3	2.35	0.54
1:D:99:THR:HG22	1:D:617:ALA:HA	1.89	0.54
1:D:230:ALA:CB	1:D:288:VAL:CG2	2.86	0.54
1:D:646:TYR:CD2	7:4:4:ILE:CG2	2.90	0.54
1:E:25:SER:N	1:F:639:HIS:CE1	2.75	0.54
1:E:134:GLN:HG2	1:E:154:THR:OG1	2.07	0.54
1:E:177:ASP:CG	1:E:178:GLU:H	2.11	0.54
1:E:675:PHE:HE1	1:E:920:PHE:HD1	1.55	0.54
1:E:849:PRO:HB2	1:E:854:THR:O	2.08	0.54
1:F:878:ASN:ND2	1:F:880:MET:CG	2.71	0.54
1:G:222:MET:SD	1:G:307:SER:HA	2.48	0.54
1:G:358:LEU:CD2	1:G:942:ARG:HD2	2.37	0.54
1:G:417:THR:CG2	1:G:419:THR:CB	2.86	0.54
1:G:886:THR:HG23	1:G:889:GLY:N	2.22	0.54
1:H:165:ILE:O	1:H:210:PHE:HE1	1.91	0.54
1:H:219:ASP:HB2	1:H:287:ASN:HD21	1.73	0.54
1:H:269:PRO:CA	1:H:277:TYR:HE2	2.21	0.54
1:H:372:ASP:CA	1:H:377:ARG:HD2	2.38	0.54
1:I:113:PHE:HD1	1:I:324:ILE:HD12	1.72	0.54
1:I:422:THR:HA	1:I:451:GLN:HA	1.89	0.54
1:I:510:ALA:CB	1:I:832:LEU:C	2.72	0.54
1:J:134:GLN:C	1:J:154:THR:O	2.45	0.54
1:J:174:LEU:CD1	1:J:191:LYS:HE2	2.37	0.54
1:J:323:TYR:C	1:J:324:ILE:HG13	2.21	0.54
1:J:421:SER:HB2	1:J:423:TYR:CZ	2.42	0.54
1:J:575:LEU:HD22	1:J:631:GLU:HG2	1.90	0.54
1:J:806:VAL:HG12	1:J:806:VAL:O	2.08	0.54
1:J:886:THR:HG22	1:J:889:GLY:H	1.73	0.54
1:K:199:VAL:HG13	1:K:206:GLU:CG	2.32	0.54
1:K:229:PHE:CD2	1:K:229:PHE:C	2.80	0.54
1:K:341:ASN:N	1:K:341:ASN:ND2	2.56	0.54
1:K:572:LEU:HA	1:K:643:PHE:CZ	2.42	0.54
1:K:731:TRP:HE3	1:K:732:PRO:HD3	1.73	0.54
1:K:739:THR:HG1	1:K:740:PRO:HD2	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:896:ASN:O	6:U:10:MET:HE2	2.08	0.54
1:L:20:ALA:O	1:L:24:LEU:HD12	1.99	0.54
1:L:397:ILE:HA	1:L:525:SER:HB3	1.90	0.54
1:L:691:LEU:CD1	1:L:707:TYR:CE2	2.91	0.54
2:N:132:ALA:HB3	2:N:161:PHE:HE1	1.73	0.54
5:P:39:ARG:NH2	5:P:41:VAL:HG21	2.21	0.54
5:R:96:ILE:HG22	5:R:96:ILE:O	2.08	0.54
1:A:323:TYR:HB2	1:A:596:SER:OG	2.08	0.54
1:A:426:VAL:HG23	1:B:260:TYR:CB	2.25	0.54
1:B:26:PRO:CA	6:U:176:SER:HB3	2.38	0.54
1:B:42:GLY:HA2	7:1:9:LEU:HB3	1.89	0.54
1:B:203:ASN:H	1:C:836:MET:CE	2.06	0.54
1:C:724:MET:HG2	1:C:729:VAL:HG11	1.88	0.54
1:D:41:LEU:HD12	1:D:41:LEU:N	2.23	0.54
1:D:110:GLY:C	1:D:112:SER:H	2.11	0.54
1:D:355:VAL:O	1:D:355:VAL:HG13	2.07	0.54
1:E:269:PRO:HD2	1:E:274:GLY:O	2.08	0.54
1:E:428:ILE:CD1	1:F:169:ASN:HA	2.38	0.54
1:E:767:LEU:O	1:E:771:LEU:HB2	2.08	0.54
1:F:241:LYS:HE2	1:F:286:GLU:CG	2.38	0.54
1:F:523:ARG:O	1:F:801:MET:HB3	2.07	0.54
1:F:945:PHE:HD2	1:H:727:SER:OG	1.90	0.54
1:F:950:ALA:HB2	1:H:893:LEU:HG	1.88	0.54
1:G:156:THR:HG22	1:I:451:GLN:HE21	1.73	0.54
1:G:424:GLN:HB3	1:G:447:SER:CA	2.38	0.54
1:G:443:ASP:CB	1:H:150:GLU:CB	2.81	0.54
1:G:543:LEU:HD23	1:G:543:LEU:C	2.27	0.54
1:G:701:TYR:O	1:G:701:TYR:HD2	1.88	0.54
1:G:729:VAL:CG2	1:G:730:SER:H	2.20	0.54
1:G:840:GLN:HG2	1:I:159:VAL:O	2.07	0.54
1:H:603:VAL:CA	5:Q:40:PRO:HG3	2.38	0.54
1:H:761:MET:SD	1:H:798:PHE:CE1	3.01	0.54
1:I:29:VAL:HG13	1:I:30:GLN:N	2.23	0.54
1:I:291:GLU:O	1:I:291:GLU:HG3	2.08	0.54
1:I:811:TYR:CE1	1:I:856:VAL:HG23	2.43	0.54
1:I:891:ASN:N	1:I:891:ASN:ND2	2.51	0.54
1:J:202:GLU:CA	1:K:313:VAL:HG11	2.33	0.54
1:J:203:ASN:H	1:K:836:MET:HE1	1.73	0.54
1:J:276:GLU:O	1:L:440:TRP:CZ3	2.60	0.54
1:J:867:ASP:O	1:J:868:ARG:HB3	2.08	0.54
1:K:20:ALA:HA	1:K:23:TYR:HE2	1.70	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:46:ARG:CD	1:L:644:ASN:HD22	2.21	0.54
1:K:109:ARG:HG3	1:K:109:ARG:NH1	2.23	0.54
1:K:196:GLU:O	1:L:838:GLN:HG3	2.07	0.54
1:K:269:PRO:HB3	1:K:277:TYR:HB3	1.89	0.54
1:K:361:ARG:HH11	1:K:361:ARG:CG	2.19	0.54
1:K:602:ARG:C	1:K:604:ASP:H	2.11	0.54
1:K:675:PHE:O	1:K:875:PHE:CD2	2.61	0.54
1:K:719:LYS:HG3	1:K:906:GLU:O	2.07	0.54
1:L:328:ASP:HB2	1:L:546:ARG:NH2	2.22	0.54
1:L:782:HIS:CD2	1:L:782:HIS:O	2.61	0.54
1:L:924:ASP:OD2	1:L:942:ARG:HD3	2.06	0.54
2:N:111:LYS:CB	2:N:473:ASP:HB3	2.38	0.54
4:M:156:GLN:HB2	4:M:210:TRP:C	2.28	0.54
5:Q:19:THR:O	5:Q:19:THR:OG1	2.26	0.54
6:U:10:MET:HG3	6:U:26:ASP:HB3	1.90	0.54
7:5:17:PRO:CB	7:5:22:TRP:HE3	2.16	0.54
1:A:102:ASP:HB3	1:A:614:ASN:HB2	1.90	0.53
1:A:156:THR:CB	1:A:312:LEU:HD21	2.39	0.53
1:A:206:GLU:O	1:A:206:GLU:CG	2.52	0.53
1:A:495:PRO:HG2	1:A:503:TYR:HB2	1.90	0.53
1:B:112:SER:HB3	1:B:604:ASP:OD2	2.08	0.53
1:B:150:GLU:HB2	1:B:152:ASP:OD1	2.08	0.53
1:B:336:TYR:HB3	1:B:337:ASN:HD22	1.74	0.53
1:B:425:GLY:HA3	1:B:444:ASP:OD2	2.09	0.53
1:B:681:THR:HG21	1:B:712:PHE:CG	2.43	0.53
1:B:719:LYS:O	1:B:745:ILE:N	2.41	0.53
1:C:78:TYR:CG	1:C:695:PHE:CE1	2.84	0.53
1:C:176:THR:HG22	1:C:177:ASP:N	2.23	0.53
1:C:478:ALA:O	1:C:509:VAL:HG21	2.08	0.53
1:C:527:ASP:OD2	1:C:863:LYS:HD3	2.08	0.53
1:C:682:ARG:HD3	1:C:907:VAL:HG11	1.90	0.53
1:D:169:ASN:OD1	1:F:432:ASN:HB2	2.08	0.53
1:D:288:VAL:HG22	1:D:289:ASN:N	2.24	0.53
1:D:440:TRP:HZ2	1:E:277:TYR:CA	2.18	0.53
1:E:149:GLN:HG2	1:E:149:GLN:O	2.07	0.53
1:E:573:LEU:HD13	1:E:573:LEU:O	2.08	0.53
1:F:381:PHE:CZ	1:F:383:MET:HB3	2.43	0.53
1:F:646:TYR:O	1:F:646:TYR:CD2	2.61	0.53
1:G:160:ALA:HA	1:G:213:GLY:HA3	1.89	0.53
1:G:291:GLU:O	1:G:291:GLU:OE1	2.26	0.53
1:G:417:THR:CG2	1:G:419:THR:HG22	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:428:ILE:O	1:G:428:ILE:HG23	2.08	0.53
1:G:443:ASP:HA	1:H:150:GLU:CG	2.38	0.53
1:G:594:GLN:HE22	1:G:704:SER:HB2	1.73	0.53
1:H:108:ASP:CA	1:H:607:SER:HB2	2.38	0.53
1:H:215:ALA:C	1:H:216:LEU:HD23	2.28	0.53
1:H:403:VAL:HG11	1:H:466:ALA:HB2	1.90	0.53
1:H:574:LEU:HA	1:H:930:GLN:NE2	2.16	0.53
1:H:599:ASN:O	1:H:702:SER:HB3	2.08	0.53
1:H:737:LEU:CB	1:H:739:THR:O	2.57	0.53
1:J:28:LEU:HD13	1:J:28:LEU:O	2.08	0.53
1:J:122:ASN:HA	1:K:825:ASN:HA	1.89	0.53
1:J:172:LEU:CD2	1:J:193:PHE:CE2	2.78	0.53
1:J:278:LYS:CD	1:L:438:SER:CB	2.66	0.53
1:J:923:PHE:HE1	7:9:5:ASN:HD22	1.55	0.53
1:K:89:GLY:HA3	1:K:92:ARG:HE	1.73	0.53
1:K:193:PHE:HE1	1:K:284:TYR:CE1	2.26	0.53
1:K:397:ILE:HG21	1:K:801:MET:CE	2.38	0.53
1:L:107:LEU:HD13	1:L:607:SER:HB2	1.86	0.53
1:L:744:GLU:O	1:L:765:TRP:CB	2.42	0.53
1:L:921:GLU:C	1:L:922:VAL:HG13	2.28	0.53
2:N:461:ILE:O	2:N:461:ILE:CG2	2.56	0.53
4:M:145:LEU:O	4:M:145:LEU:HD23	2.07	0.53
5:S:8:PHE:HD2	5:S:9:GLU:CB	2.11	0.53
6:U:33:TRP:CD2	6:U:41:ILE:HD11	2.43	0.53
6:U:74:TRP:CH2	6:U:191:GLU:HG2	2.41	0.53
6:V:81:GLN:O	6:V:82:GLU:C	2.46	0.53
1:A:202:GLU:CA	1:B:313:VAL:HG11	2.37	0.53
1:A:355:VAL:HG23	1:A:566:PHE:CE2	2.43	0.53
1:A:384:TRP:CE3	1:A:384:TRP:HA	2.42	0.53
1:C:20:ALA:H	1:C:47:ASN:HB3	1.73	0.53
1:C:235:GLU:C	1:C:237:GLY:H	2.12	0.53
1:C:791:MET:HA	1:C:791:MET:CE	2.38	0.53
1:C:912:GLU:O	1:C:914:THR:HG22	2.08	0.53
1:D:28:LEU:H	1:E:633:MET:HE2	1.73	0.53
1:D:31:PHE:CD2	1:D:31:PHE:C	2.81	0.53
1:D:31:PHE:CZ	1:E:630:LEU:HB2	2.43	0.53
1:D:198:GLN:NE2	1:E:838:GLN:HB3	2.19	0.53
1:D:262:ASP:HB2	1:F:426:VAL:CG1	2.39	0.53
1:D:323:TYR:C	1:D:324:ILE:HG13	2.27	0.53
1:D:471:SER:HA	1:E:407:LEU:HD11	1.90	0.53
1:D:543:LEU:HD21	1:D:596:SER:HA	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:732:PRO:HG2	1:D:743:PHE:HE1	1.73	0.53
1:D:869:VAL:O	1:D:869:VAL:HG13	2.07	0.53
1:E:24:LEU:HD21	1:E:45:PHE:CD2	2.42	0.53
1:E:86:LEU:HD23	1:E:581:TYR:CB	2.39	0.53
1:E:101:PHE:CE2	1:E:581:TYR:CE2	2.95	0.53
1:E:454:LYS:O	1:F:161:ALA:HA	2.08	0.53
1:E:495:PRO:HG2	1:E:503:TYR:HB2	1.90	0.53
1:E:880:MET:HB3	1:E:882:MET:HE3	1.89	0.53
1:F:192:THR:HG23	1:F:193:PHE:HD1	1.72	0.53
1:F:269:PRO:HB3	1:F:274:GLY:O	2.09	0.53
1:F:547:SER:C	1:F:549:LEU:H	2.10	0.53
1:F:651:ASN:C	1:F:652:MET:CG	2.76	0.53
1:F:664:PRO:CG	5:P:18:THR:HG21	2.38	0.53
1:F:689:PRO:CA	1:F:699:PHE:CD1	2.89	0.53
1:F:922:VAL:HG11	1:F:945:PHE:HD1	1.72	0.53
1:G:29:VAL:HG13	1:G:30:GLN:N	2.23	0.53
1:G:56:VAL:HG13	1:I:38:TYR:CZ	2.43	0.53
1:G:296:HIS:CE1	1:G:317:MET:CE	2.91	0.53
1:G:773:HIS:HD2	1:G:794:PHE:H	1.55	0.53
1:H:109:ARG:NH1	1:H:109:ARG:HG3	2.23	0.53
1:H:198:GLN:C	1:H:200:GLY:H	2.12	0.53
1:H:222:MET:H	1:H:307:SER:HB3	1.72	0.53
1:I:177:ASP:HB2	1:I:184:LYS:HZ1	1.72	0.53
1:I:727:SER:O	5:S:20:ARG:NH1	2.41	0.53
1:I:815:LYS:HE2	1:I:815:LYS:HA	1.90	0.53
1:I:935:VAL:O	1:I:935:VAL:HG13	2.09	0.53
1:J:126:PRO:O	1:J:128:GLY:N	2.42	0.53
1:J:230:ALA:HB1	1:J:288:VAL:CG2	2.38	0.53
1:J:328:ASP:O	1:J:329:ASN:HB2	2.07	0.53
1:J:636:ASN:ND2	1:J:637:ASP:N	2.57	0.53
1:J:661:THR:CG2	1:J:662:ASN:N	2.70	0.53
1:J:905:PHE:CE2	1:J:916:LEU:HD11	2.44	0.53
1:K:94:LEU:HG	1:K:95:ASP:O	2.08	0.53
1:K:392:ASP:OD2	1:K:394:ASP:OD1	2.26	0.53
1:K:410:TYR:HB2	1:K:412:PHE:CZ	2.43	0.53
1:L:808:GLU:HG3	1:L:814:TYR:CZ	2.40	0.53
5:P:15:PRO:HB3	5:R:15:PRO:CD	2.38	0.53
6:V:83:ILE:O	6:V:83:ILE:CG2	2.56	0.53
7:2:23:ASN:OD1	7:2:23:ASN:N	2.41	0.53
7:5:16:ARG:CD	7:5:21:THR:HG23	2.38	0.53
1:A:481:LEU:HD23	1:A:529:MET:HG2	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:94:LEU:HD13	1:B:619:PHE:CD2	2.39	0.53
1:B:134:GLN:HG2	1:B:154:THR:C	2.21	0.53
1:B:288:VAL:HG23	1:B:290:LEU:HB2	1.90	0.53
1:B:327:ARG:HH21	1:B:705:ILE:HD11	1.73	0.53
1:B:826:SER:O	1:B:828:PHE:HD1	1.91	0.53
1:C:50:VAL:HG23	7:1:22:TRP:CD1	2.43	0.53
1:C:110:GLY:HA2	1:C:554:ARG:HH21	1.72	0.53
1:C:208:GLU:HB3	1:C:211:TYR:CE1	2.42	0.53
1:C:623:ALA:HB3	1:C:626:THR:HG22	1.90	0.53
1:C:641:GLN:HG3	1:C:643:PHE:CZ	2.44	0.53
1:D:117:SER:HB3	1:E:403:VAL:O	2.07	0.53
1:D:237:GLY:HA2	1:E:817:VAL:HG13	1.91	0.53
1:D:417:THR:HG22	1:D:418:GLY:N	2.22	0.53
1:D:494:LEU:HD11	1:D:506:GLY:HA3	1.89	0.53
1:D:849:PRO:HD3	1:F:229:PHE:CZ	2.44	0.53
1:E:204:TRP:HH2	1:F:128:GLY:O	1.91	0.53
1:E:241:LYS:CG	1:E:254:LEU:HD11	2.38	0.53
1:E:462:ILE:O	1:E:462:ILE:HG13	2.08	0.53
1:F:34:ALA:HA	7:4:15:THR:HB	1.89	0.53
1:F:573:LEU:O	1:F:573:LEU:HG	2.08	0.53
1:F:589:VAL:HG21	1:F:605:GLY:O	2.08	0.53
1:F:787:TYR:CD1	1:F:787:TYR:O	2.62	0.53
1:F:790:ARG:O	1:F:792:TYR:N	2.41	0.53
1:G:24:LEU:HD23	1:G:24:LEU:N	2.22	0.53
1:G:94:LEU:HD12	1:G:574:LEU:CD2	2.38	0.53
1:G:486:LYS:HB2	1:G:507:ARG:O	2.09	0.53
1:G:721:VAL:HG21	1:G:905:PHE:HE1	1.72	0.53
1:G:864:PHE:C	1:G:864:PHE:CD1	2.81	0.53
1:H:118:GLY:CA	1:H:318:PRO:HB3	2.39	0.53
1:H:244:PRO:HD2	1:H:253:ASP:HB3	1.90	0.53
1:H:425:GLY:HA2	1:I:260:TYR:O	2.08	0.53
1:H:454:LYS:O	1:I:161:ALA:CB	2.57	0.53
1:H:537:HIS:CG	1:H:538:PRO:HD2	2.44	0.53
1:H:598:GLY:HA2	1:H:703:GLY:N	2.24	0.53
1:H:846:PHE:HD2	1:H:847:PRO:CD	2.00	0.53
1:I:135:TRP:CH2	1:I:309:GLU:HG2	2.44	0.53
1:I:620:PHE:CD2	1:I:622:MET:HB2	2.44	0.53
1:I:647:LEU:HD23	1:I:647:LEU:O	2.07	0.53
1:J:372:ASP:HB2	1:J:377:ARG:CG	2.37	0.53
1:J:729:VAL:CG1	1:J:733:GLY:HA3	2.36	0.53
1:J:731:TRP:CD2	1:J:731:TRP:C	2.80	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:774:TYR:HD1	1:J:776:ILE:HD11	1.52	0.53
1:J:925:VAL:CG1	1:L:46:ARG:CZ	2.84	0.53
1:K:71:VAL:HG23	1:K:84:PHE:HA	1.90	0.53
1:K:575:LEU:CG	1:K:930:GLN:NE2	2.70	0.53
1:K:729:VAL:O	1:K:730:SER:C	2.44	0.53
1:K:758:GLN:O	1:K:862:LYS:HD3	2.08	0.53
1:K:885:LEU:CD1	1:K:923:PHE:CZ	2.91	0.53
1:L:20:ALA:CA	1:L:23:TYR:CD2	2.77	0.53
1:L:442:LYS:HG2	1:L:443:ASP:H	1.73	0.53
2:N:202:LYS:HD3	2:N:204:ASP:OD2	2.09	0.53
2:N:394:GLN:CB	2:N:478:PRO:O	2.54	0.53
4:M:137:SER:HB2	4:M:179:TYR:CD1	2.43	0.53
4:M:388:TRP:O	4:M:390:PRO:HD3	2.05	0.53
7:2:17:PRO:HG2	7:2:22:TRP:CH2	2.43	0.53
1:A:330:PHE:CE2	1:A:560:ILE:HG23	2.42	0.53
1:A:676:ARG:HB2	1:A:921:GLU:CB	2.38	0.53
1:A:767:LEU:O	1:A:771:LEU:HB2	2.09	0.53
1:B:68:PHE:CD2	1:B:86:LEU:HA	2.44	0.53
1:B:134:GLN:O	1:B:218:LYS:HB3	2.08	0.53
1:C:151:LYS:HB3	1:C:154:THR:HB	1.90	0.53
1:C:662:ASN:HA	1:C:906:GLU:HA	1.90	0.53
1:C:910:MET:HE1	1:C:914:THR:CB	2.38	0.53
1:D:88:VAL:HG13	1:D:577:GLY:H	1.71	0.53
1:D:168:THR:O	1:D:260:TYR:OH	2.26	0.53
1:D:574:LEU:CD1	1:D:936:ILE:HD11	2.38	0.53
1:D:811:TYR:CD1	1:D:857:PRO:HD2	2.44	0.53
1:D:937:GLU:HA	1:D:937:GLU:OE1	2.07	0.53
1:F:121:TYR:HE1	1:F:293:PRO:HG2	1.73	0.53
1:F:151:LYS:O	1:F:152:ASP:C	2.45	0.53
1:F:776:ILE:H	1:F:776:ILE:HD12	1.72	0.53
1:G:218:LYS:O	1:G:307:SER:OG	2.21	0.53
1:H:110:GLY:CA	1:H:605:GLY:HA3	2.38	0.53
1:H:204:TRP:CH2	1:I:312:LEU:O	2.62	0.53
1:H:483:ASP:OD1	1:H:503:TYR:HE2	1.90	0.53
1:H:882:MET:HB3	7:6:23:ASN:ND2	2.24	0.53
1:I:368:GLN:HG2	1:I:709:ASP:O	2.09	0.53
1:I:756:VAL:HG11	1:I:766:PHE:HB3	1.91	0.53
1:I:811:TYR:O	1:I:813:ASP:N	2.42	0.53
1:J:165:ILE:HG22	1:J:173:LEU:HG	1.90	0.53
1:J:169:ASN:OD1	1:L:428:ILE:HD12	2.08	0.53
1:J:250:GLN:C	1:J:252:LYS:H	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:333:LEU:CD1	1:J:592:ILE:HG21	2.25	0.53
1:J:629:THR:C	1:J:631:GLU:N	2.56	0.53
1:J:641:GLN:HB2	1:J:928:VAL:HG13	1.91	0.53
1:J:774:TYR:HB3	1:J:788:LYS:CE	2.37	0.53
1:K:135:TRP:NE1	1:K:156:THR:OG1	2.33	0.53
1:K:192:THR:O	1:K:193:PHE:C	2.46	0.53
1:K:397:ILE:CG2	1:K:865:LEU:CD1	2.86	0.53
1:L:134:GLN:HG2	1:L:154:THR:CG2	2.35	0.53
1:L:510:ALA:CA	1:L:832:LEU:O	2.56	0.53
1:L:733:GLY:O	1:L:734:ASN:C	2.43	0.53
5:Q:32:MET:SD	5:Q:45:ASN:CA	2.95	0.53
5:Q:35:THR:CG2	5:Q:40:PRO:HA	2.28	0.53
5:S:77:LEU:HD23	5:S:80:SER:OG	2.08	0.53
6:U:90:LEU:HG	6:U:166:GLN:HE21	1.73	0.53
6:V:44:VAL:O	6:V:48:ARG:HB2	2.08	0.53
7:3:11:PRO:HG2	7:3:12:ARG:H	1.73	0.53
1:A:214:ARG:CG	1:B:842:TYR:CE1	2.92	0.53
1:A:379:ARG:HH12	1:B:796:ARG:HH11	1.52	0.53
1:A:391:TYR:O	1:A:392:ASP:C	2.47	0.53
1:A:838:GLN:CA	1:C:198:GLN:OE1	2.57	0.53
1:B:455:GLY:O	1:B:456:ASN:HB3	2.08	0.53
1:B:494:LEU:HB3	1:B:495:PRO:HD2	1.90	0.53
1:B:790:ARG:NH1	1:B:790:ARG:HB3	2.23	0.53
1:C:79:LEU:HD12	1:C:335:TYR:HE2	1.73	0.53
1:C:239:GLN:HE21	1:C:240:ALA:H	1.57	0.53
1:C:303:THR:HG22	1:C:303:THR:O	2.08	0.53
1:D:193:PHE:CE1	1:D:195:PRO:HA	2.42	0.53
1:D:202:GLU:CD	1:D:206:GLU:OE2	2.47	0.53
1:D:579:TYR:CE1	1:D:936:ILE:HG12	2.44	0.53
1:D:732:PRO:HG2	1:D:743:PHE:CE1	2.44	0.53
1:E:64:LEU:HB3	1:F:736:ARG:O	2.06	0.53
1:E:97:ALA:HB3	1:F:779:GLN:O	2.05	0.53
1:E:174:LEU:HG	1:E:186:ASP:OD1	2.08	0.53
1:E:198:GLN:HB3	1:F:838:GLN:HB2	1.90	0.53
1:E:373:SER:HA	1:E:790:ARG:HD3	1.90	0.53
1:E:726:ASP:OD1	1:E:726:ASP:N	2.38	0.53
1:F:488:THR:CG2	1:F:494:LEU:HD12	2.35	0.53
1:F:509:VAL:O	1:F:509:VAL:CG2	2.57	0.53
1:F:943:THR:CB	1:F:944:PRO:HD3	2.38	0.53
1:G:141:GLN:HG2	1:I:446:ILE:CD1	2.33	0.53
1:G:445:ALA:CA	1:H:139:GLU:OE2	2.54	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:575:LEU:N	1:G:575:LEU:HD22	2.23	0.53
1:H:203:ASN:HA	1:I:836:MET:SD	2.48	0.53
1:H:384:TRP:HA	1:H:384:TRP:HE3	1.74	0.53
1:H:444:ASP:HA	1:I:152:ASP:CA	2.39	0.53
1:H:748:SER:OG	5:R:51:TYR:O	2.20	0.53
1:I:93:VAL:HB	1:I:573:LEU:HD11	1.90	0.53
1:I:155:LYS:HE3	1:I:259:ALA:HB1	1.90	0.53
1:I:589:VAL:HG13	1:I:602:ARG:HG3	1.91	0.53
1:I:842:TYR:CE1	1:I:843:PRO:HD2	2.44	0.53
1:J:114:LYS:HA	1:K:851:ILE:HD13	1.89	0.53
1:J:720:LYS:HZ2	5:Q:24:TRP:HB2	1.72	0.53
1:J:773:HIS:CD2	1:J:794:PHE:HB3	2.44	0.53
1:K:417:THR:CG2	1:L:159:VAL:HG21	2.37	0.53
1:K:524:TRP:CZ3	1:K:802:SER:HA	2.44	0.53
1:K:688:THR:HG23	1:K:707:TYR:HB2	1.90	0.53
1:K:817:VAL:O	1:K:817:VAL:CG2	2.56	0.53
4:M:145:LEU:HD21	4:M:163:ILE:HG23	1.89	0.53
5:Q:14:SER:N	5:Q:15:PRO:CD	2.71	0.53
1:A:73:ARG:CZ	1:A:80:TYR:HE1	2.21	0.53
1:A:172:LEU:HB2	1:A:186:ASP:OD2	2.07	0.53
1:A:575:LEU:HD22	1:A:631:GLU:HB2	1.89	0.53
1:A:653:LEU:HD23	1:A:915:LEU:CD1	2.37	0.53
1:A:675:PHE:HA	1:A:944:PRO:HG2	1.89	0.53
1:A:732:PRO:O	1:A:734:ASN:N	2.41	0.53
1:A:831:TYR:CD2	1:A:831:TYR:O	2.62	0.53
1:B:88:VAL:CG1	1:B:576:PRO:C	2.75	0.53
1:B:315:GLN:OE1	1:B:835:THR:HG23	2.08	0.53
1:B:921:GLU:C	1:B:922:VAL:CG1	2.70	0.53
1:C:524:TRP:CH2	1:C:861:GLN:HB2	2.43	0.53
1:C:539:ARG:HG3	1:C:539:ARG:HH11	1.73	0.53
1:D:421:SER:O	1:D:423:TYR:CD1	2.61	0.53
1:D:456:ASN:CB	1:F:837:ARG:CD	2.86	0.53
1:D:529:MET:O	1:D:529:MET:SD	2.67	0.53
1:D:713:TYR:HA	1:D:867:ASP:HB2	1.90	0.53
1:D:822:GLN:CB	1:D:846:PHE:CD1	2.92	0.53
1:E:15:ILE:HD11	1:F:923:PHE:HB2	1.90	0.53
1:E:84:PHE:CE2	1:E:613:VAL:O	2.56	0.53
1:E:192:THR:C	1:E:193:PHE:CD1	2.82	0.53
1:E:695:PHE:CD1	1:E:695:PHE:O	2.61	0.53
1:E:722:SER:HA	1:E:742:GLU:CB	2.37	0.53
1:F:83:ARG:HA	1:F:582:GLU:HB2	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:759:CYS:HG	1:F:864:PHE:HB3	1.70	0.53
1:G:543:LEU:HD12	1:G:594:GLN:HG2	1.91	0.53
1:G:782:HIS:O	1:G:783:VAL:C	2.44	0.53
1:H:107:LEU:HD11	1:H:593:LEU:HD22	1.91	0.53
1:H:116:TYR:HB2	1:I:402:GLY:N	2.23	0.53
1:H:360:ASP:CB	1:H:942:ARG:CZ	2.68	0.53
1:H:417:THR:HB	1:I:159:VAL:HG21	1.90	0.53
1:H:518:ILE:O	1:H:518:ILE:HG13	2.08	0.53
1:H:824:ASN:O	1:H:825:ASN:C	2.45	0.53
1:I:328:ASP:O	1:I:331:VAL:HG13	2.09	0.53
1:I:649:ALA:HB1	1:I:919:LEU:HD23	1.91	0.53
1:I:724:MET:CE	5:S:20:ARG:NH2	2.71	0.53
1:J:162:THR:CB	1:J:193:PHE:HD2	2.22	0.53
1:J:522:ALA:HB2	1:L:552:ASN:HB3	1.89	0.53
1:J:573:LEU:HD13	1:J:634:LEU:HD11	1.66	0.53
1:K:341:ASN:HD22	1:K:341:ASN:N	2.04	0.53
1:K:345:LEU:HD13	1:K:345:LEU:O	2.08	0.53
1:K:517:TYR:HE2	1:K:824:ASN:HD22	1.55	0.53
1:K:807:ASP:H	1:K:858:SER:CB	2.22	0.53
1:L:243:LYS:O	1:L:245:VAL:N	2.42	0.53
1:L:633:MET:O	1:L:639:HIS:CD2	2.62	0.53
4:M:182:GLY:O	4:M:183:PRO:O	2.27	0.53
5:R:134:LYS:HD3	5:R:134:LYS:C	2.29	0.53
6:U:102:THR:HG22	6:U:102:THR:O	2.07	0.53
6:U:215:ASN:CB	6:U:223:VAL:HG13	2.31	0.53
1:A:124:LEU:H	1:B:825:ASN:HD21	1.54	0.53
1:A:911:ASP:OD1	1:A:911:ASP:C	2.47	0.53
1:B:51:ALA:HB1	1:C:882:MET:HG3	1.89	0.53
1:B:79:LEU:HD13	1:B:341:ASN:HD22	1.72	0.53
1:B:135:TRP:O	1:B:153:VAL:HG23	2.09	0.53
1:B:876:SER:C	1:B:888:LEU:HD21	2.29	0.53
1:C:79:LEU:HD11	1:C:584:ASN:CB	2.33	0.53
1:C:455:GLY:O	1:C:456:ASN:CG	2.47	0.53
1:C:714:LEU:HD13	1:C:910:MET:SD	2.49	0.53
1:D:26:PRO:O	1:D:29:VAL:HG12	2.07	0.53
1:D:52:PRO:HB3	7:4:24:GLU:HB3	1.90	0.53
1:D:136:GLU:HG3	1:D:151:LYS:HG3	1.89	0.53
1:D:200:GLY:CA	1:D:206:GLU:CD	2.65	0.53
1:D:667:ILE:HD12	1:D:667:ILE:N	2.24	0.53
1:D:709:ASP:OD2	1:D:709:ASP:C	2.47	0.53
1:D:823:HIS:HB3	1:F:196:GLU:CD	2.28	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:825:ASN:ND2	1:F:124:LEU:HG	2.23	0.53
1:D:842:TYR:CG	1:D:843:PRO:HD2	2.44	0.53
1:D:868:ARG:O	1:D:868:ARG:CG	2.53	0.53
1:E:19:ASP:OD1	1:E:20:ALA:N	2.41	0.53
1:E:24:LEU:O	1:E:25:SER:C	2.46	0.53
1:E:125:ALA:HA	1:F:828:PHE:CE2	2.44	0.53
1:E:155:LYS:HE2	1:E:283:LEU:HD22	1.91	0.53
1:E:167:ILE:CD1	1:E:282:ILE:H	2.22	0.53
1:E:926:VAL:O	1:E:926:VAL:HG13	2.08	0.53
1:F:115:PRO:CA	1:F:323:TYR:HE1	2.19	0.53
1:F:191:LYS:O	1:F:192:THR:C	2.45	0.53
1:F:930:GLN:O	1:F:930:GLN:CG	2.57	0.53
1:G:239:GLN:HG3	1:G:240:ALA:N	2.22	0.53
1:G:414:LEU:HD11	1:H:837:ARG:HD3	1.91	0.53
1:G:527:ASP:O	1:G:529:MET:N	2.42	0.53
1:G:589:VAL:O	1:G:589:VAL:HG22	2.07	0.53
1:G:673:ALA:CB	1:G:943:THR:HG21	2.36	0.53
1:G:885:LEU:HB3	1:I:50:VAL:HA	1.90	0.53
1:H:384:TRP:CD2	1:H:563:PRO:HG3	2.43	0.53
1:I:94:LEU:HG	1:I:95:ASP:N	2.23	0.53
1:I:538:PRO:HG2	1:I:539:ARG:HG3	1.89	0.53
1:J:12:TYR:O	1:J:12:TYR:CG	2.60	0.53
1:J:94:LEU:O	1:J:94:LEU:CG	2.47	0.53
1:J:109:ARG:HB3	1:J:324:ILE:HD13	1.89	0.53
1:J:281:ILE:HD13	1:L:423:TYR:HE1	1.73	0.53
1:J:355:VAL:HG13	1:J:566:PHE:CE1	2.44	0.53
1:J:650:ALA:HB2	1:J:942:ARG:NH2	2.01	0.53
1:J:651:ASN:H	1:J:651:ASN:HD22	1.57	0.53
1:J:663:VAL:HG23	5:P:17:LEU:HD11	1.89	0.53
1:J:759:CYS:SG	1:J:798:PHE:CZ	3.02	0.53
1:K:502:GLU:CD	1:K:502:GLU:N	2.61	0.53
1:K:731:TRP:O	1:K:731:TRP:CG	2.55	0.53
1:L:59:ASP:OD2	1:L:59:ASP:N	2.31	0.53
1:L:135:TRP:C	1:L:135:TRP:CD1	2.82	0.53
4:M:170:VAL:HA	4:M:177:GLU:OE1	2.08	0.53
5:Q:36:VAL:HG23	5:Q:43:PRO:CG	2.31	0.53
5:R:82:MET:HB2	5:R:88:SER:OG	2.09	0.53
6:V:197:TYR:CE2	6:V:200:PRO:O	2.62	0.53
7:3:25:ILE:CG2	7:3:25:ILE:O	2.56	0.53
7:4:16:ARG:HH12	7:4:21:THR:HG23	1.73	0.53
7:9:22:TRP:HZ2	7:9:25:ILE:HG13	1.56	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:36:ASP:CA	1:A:40:SER:HB3	2.39	0.53
1:A:608:VAL:CG1	1:A:608:VAL:O	2.56	0.53
1:A:736:ARG:HH12	1:C:621:PRO:CB	1.99	0.53
1:B:54:HIS:O	1:B:56:VAL:HG23	2.09	0.53
1:B:104:ARG:O	1:B:104:ARG:HG3	2.08	0.53
1:B:334:MET:CE	1:B:336:TYR:OH	2.57	0.53
1:B:630:LEU:O	1:B:630:LEU:HD12	2.08	0.53
1:C:133:SER:O	1:C:155:LYS:HA	2.09	0.53
1:C:191:LYS:HG2	1:C:194:GLN:HG3	1.91	0.53
1:C:811:TYR:CE1	1:C:856:VAL:CG2	2.92	0.53
1:D:155:LYS:HD2	1:D:261:PHE:HZ	1.72	0.53
1:D:623:ALA:O	1:D:625:ASN:N	2.42	0.53
1:D:787:TYR:CD1	1:D:787:TYR:C	2.82	0.53
1:D:823:HIS:CE1	1:D:845:ASN:OD1	2.62	0.53
1:D:825:ASN:CA	1:F:122:ASN:HA	2.39	0.53
1:E:172:LEU:CD1	1:E:193:PHE:CZ	2.89	0.53
1:E:417:THR:HG21	1:F:157:PHE:CZ	2.43	0.53
1:E:560:ILE:O	1:E:560:ILE:CG1	2.56	0.53
1:G:122:ASN:HA	1:H:825:ASN:HA	1.91	0.53
1:H:440:TRP:O	1:H:440:TRP:CG	2.59	0.53
1:H:442:LYS:O	1:H:443:ASP:HB2	2.08	0.53
1:H:738:LEU:CB	1:H:754:TYR:HE2	2.08	0.53
1:H:865:LEU:HD12	1:H:866:CYS:N	2.18	0.53
1:H:882:MET:HB3	7:6:23:ASN:HD21	1.73	0.53
1:H:936:ILE:O	1:H:936:ILE:HG23	2.08	0.53
1:I:321:PRO:O	1:I:322:ASN:HB2	2.08	0.53
1:I:409:ASN:O	1:I:461:GLU:HB2	2.09	0.53
1:I:859:VAL:HG23	5:S:58:SER:HB3	1.89	0.53
1:J:4:PRO:CG	4:M:295:LEU:HD11	2.39	0.53
1:J:110:GLY:HA2	1:J:604:ASP:O	2.09	0.53
1:J:195:PRO:O	1:K:839:GLY:HA3	2.07	0.53
1:J:199:VAL:HG13	1:J:200:GLY:H	1.72	0.53
1:J:320:ARG:H	1:J:505:ASN:ND2	2.07	0.53
1:J:546:ARG:HB2	1:J:546:ARG:HH11	1.74	0.53
1:J:564:GLN:O	1:J:564:GLN:HG3	2.08	0.53
1:J:733:GLY:C	1:J:735:ASP:H	2.11	0.53
1:J:770:MET:CE	1:J:795:PHE:HB2	2.39	0.53
1:K:415:ASN:CG	1:K:417:THR:O	2.43	0.53
1:K:682:ARG:HB2	1:K:718:PHE:CZ	2.44	0.53
1:L:322:ASN:ND2	1:L:323:TYR:H	2.06	0.53
1:L:662:ASN:O	1:L:662:ASN:OD1	2.27	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:670:ARG:HG2	1:L:671:ASN:N	2.23	0.53
1:L:797:ASN:H	1:L:797:ASN:HD22	1.57	0.53
2:N:280:LEU:CD1	2:N:328:VAL:HG13	2.37	0.53
5:Q:16:TYR:OH	5:R:18:THR:HA	2.09	0.53
5:S:48:THR:O	5:S:48:THR:CG2	2.57	0.53
6:U:159:ARG:NH1	6:U:159:ARG:O	2.42	0.53
6:V:13:TYR:HB2	6:V:188:PHE:CE2	2.43	0.53
1:A:172:LEU:O	1:A:173:LEU:C	2.46	0.53
1:A:406:GLU:HG3	1:C:474:TYR:CE2	2.43	0.53
1:B:13:MET:HG2	1:C:941:LEU:HD22	1.89	0.53
1:B:29:VAL:HG23	1:B:30:GLN:N	2.24	0.53
1:B:485:TYR:HH	1:B:528:PRO:HB3	1.71	0.53
1:B:517:TYR:C	1:B:517:TYR:HD1	2.10	0.53
1:B:676:ARG:O	1:B:921:GLU:HG3	2.09	0.53
1:C:103:ILE:HG13	1:C:613:VAL:HG12	1.91	0.53
1:C:324:ILE:CG2	1:C:325:GLY:N	2.72	0.53
1:E:18:GLN:O	1:E:48:PRO:CG	2.56	0.53
1:E:169:ASN:C	1:E:169:ASN:ND2	2.62	0.53
1:E:630:LEU:O	1:E:630:LEU:HG	2.05	0.53
1:E:714:LEU:HD21	1:E:910:MET:SD	2.49	0.53
1:F:107:LEU:HG	1:F:108:ASP:N	2.23	0.53
1:F:223:LYS:HB3	1:F:224:PRO:CD	2.32	0.53
1:G:19:ASP:O	1:G:23:TYR:CD2	2.62	0.53
1:G:94:LEU:HD12	1:G:574:LEU:HD23	1.89	0.53
1:G:148:GLN:HG3	1:G:149:GLN:N	2.24	0.53
1:G:364:GLU:C	1:G:366:SER:N	2.62	0.53
1:G:397:ILE:HG23	1:G:801:MET:HE2	1.91	0.53
1:G:927:ARG:HH12	1:I:14:HIS:HE1	1.57	0.53
1:I:16:ALA:HA	1:I:48:PRO:HB3	1.90	0.53
1:I:747:ARG:HH11	1:I:747:ARG:HG2	1.73	0.53
1:J:173:LEU:HG	1:J:173:LEU:O	2.09	0.53
1:J:250:GLN:C	1:J:252:LYS:N	2.62	0.53
1:J:527:ASP:N	1:J:528:PRO:CD	2.72	0.53
1:J:666:SER:HB2	5:P:16:TYR:HE2	1.72	0.53
1:J:730:SER:O	1:J:731:TRP:C	2.48	0.53
1:J:742:GLU:HG2	5:Q:24:TRP:HZ3	1.73	0.53
1:J:811:TYR:HD1	1:J:857:PRO:CD	2.20	0.53
1:J:908:ASP:CB	1:J:909:PRO:CD	2.85	0.53
1:K:204:TRP:CH2	1:L:312:LEU:O	2.62	0.53
1:K:262:ASP:CG	1:K:263:VAL:N	2.61	0.53
1:K:767:LEU:HD23	1:K:781:PHE:HZ	1.74	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:53:THR:O	1:L:53:THR:CG2	2.51	0.53
1:L:91:ASN:O	1:L:627:ALA:HB1	2.09	0.53
1:L:222:MET:SD	1:L:307:SER:HA	2.49	0.53
1:L:371:LEU:CG	1:L:377:ARG:HH21	2.21	0.53
1:L:500:THR:HG23	1:L:503:TYR:HB3	1.90	0.53
2:N:267:MET:CE	2:N:267:MET:CA	2.85	0.53
2:N:282:VAL:HG13	2:N:283:PRO:HD3	1.91	0.53
4:M:269:ASP:OD1	4:M:294:THR:HG23	2.09	0.53
5:R:114:GLN:HG2	5:R:114:GLN:O	2.07	0.53
6:U:3:LYS:H	6:U:3:LYS:CD	2.16	0.53
1:A:335:TYR:CE1	1:A:586:ARG:HG2	2.44	0.53
1:A:425:GLY:O	1:A:426:VAL:HG13	2.09	0.53
1:B:355:VAL:HG13	1:B:566:PHE:CE2	2.44	0.53
1:B:383:MET:HG3	1:C:756:VAL:CG2	2.39	0.53
1:B:405:ASP:CB	1:B:465:GLN:HG3	2.30	0.53
1:B:448:ARG:O	1:C:153:VAL:HG22	2.08	0.53
1:B:462:ILE:HG12	1:B:463:ASN:N	2.24	0.53
1:B:670:ARG:NH1	2:N:92:GLU:CG	2.72	0.53
1:B:912:GLU:O	1:B:914:THR:HG23	2.09	0.53
1:C:20:ALA:HB2	1:C:47:ASN:HB3	1.91	0.53
1:C:31:PHE:O	1:C:35:THR:HG22	2.09	0.53
1:C:69:VAL:CG2	1:C:70:PRO:N	2.69	0.53
1:C:134:GLN:CA	1:C:155:LYS:H	2.22	0.53
1:C:191:LYS:HD3	1:C:191:LYS:O	2.09	0.53
1:C:278:LYS:O	1:C:279:ALA:O	2.25	0.53
1:C:329:ASN:CA	1:C:385:ASN:O	2.57	0.53
1:C:372:ASP:OD1	1:C:373:SER:N	2.41	0.53
1:C:812:LYS:C	1:C:814:TYR:H	2.11	0.53
1:D:56:VAL:HG22	1:D:56:VAL:O	2.08	0.53
1:D:244:PRO:HD3	1:D:253:ASP:C	2.26	0.53
1:D:317:MET:O	1:D:317:MET:HG3	2.09	0.53
1:D:338:SER:HA	1:D:692:GLY:HA2	1.91	0.53
1:D:877:SER:CB	1:F:57:THR:CG2	2.82	0.53
1:E:86:LEU:CD2	1:E:581:TYR:HB2	2.36	0.53
1:E:369:LEU:HD23	7:3:4:ILE:CD1	2.40	0.53
1:E:450:ASN:OD1	1:E:450:ASN:O	2.26	0.53
1:F:86:LEU:HD22	1:F:86:LEU:C	2.29	0.53
1:F:305:ASP:CG	1:F:306:ASN:N	2.62	0.53
1:F:676:ARG:NE	1:F:921:GLU:HG3	2.16	0.53
1:F:806:VAL:HG12	1:F:856:VAL:HG13	1.91	0.53
1:G:67:ARG:CG	1:G:616:TYR:CE2	2.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:167:ILE:C	1:G:167:ILE:HD13	2.29	0.53
1:G:167:ILE:HG22	1:G:210:PHE:CD2	2.44	0.53
1:G:928:VAL:HG22	1:G:938:ALA:HB2	1.91	0.53
1:H:62:GLN:NE2	1:H:624:HIS:CE1	2.61	0.53
1:H:346:ALA:HB2	1:H:353:ASN:HB2	1.90	0.53
1:H:655:PRO:O	5:Q:17:LEU:HD22	2.08	0.53
1:H:747:ARG:CD	1:H:762:THR:CG2	2.87	0.53
1:H:859:VAL:HG21	5:R:56:ASN:HB3	1.91	0.53
1:I:154:THR:HG22	1:I:155:LYS:HD3	1.91	0.53
1:I:162:THR:O	1:I:199:VAL:CG2	2.57	0.53
1:I:725:PHE:CE1	1:I:731:TRP:HB2	2.44	0.53
1:J:725:PHE:HE1	1:J:731:TRP:CB	2.22	0.53
1:J:824:ASN:O	1:J:825:ASN:HB3	2.09	0.53
1:K:134:GLN:HA	1:K:155:LYS:H	1.74	0.53
1:K:524:TRP:CE2	1:K:803:ARG:HG2	2.44	0.53
1:K:667:ILE:HG23	1:K:668:PRO:HD2	1.91	0.53
1:K:930:GLN:HG3	1:K:936:ILE:HD13	1.91	0.53
1:L:109:ARG:NH2	1:L:550:LEU:O	2.42	0.53
1:L:531:ASN:CB	1:L:714:LEU:HD13	2.39	0.53
1:L:570:LYS:HB3	1:L:570:LYS:NZ	2.24	0.53
1:L:750:ASP:CG	1:L:755:ASN:HD21	2.10	0.53
1:L:921:GLU:O	1:L:922:VAL:HG12	2.09	0.53
2:N:23:LEU:HD23	2:N:24:GLU:HG3	1.90	0.53
2:N:132:ALA:HB3	2:N:161:PHE:CE1	2.44	0.53
2:N:492:THR:HA	2:N:498:THR:HA	1.91	0.53
4:M:179:TYR:CD1	4:M:179:TYR:N	2.76	0.53
4:M:291:LEU:O	4:M:295:LEU:HG	2.08	0.53
4:M:296:ASN:HA	4:M:299:LEU:HG	1.91	0.53
4:M:388:TRP:HA	4:M:390:PRO:CD	2.39	0.53
5:S:14:SER:HB3	5:S:15:PRO:CD	2.37	0.53
1:A:358:LEU:HD12	1:A:358:LEU:N	2.24	0.52
1:A:566:PHE:C	1:A:570:LYS:HB2	2.28	0.52
1:A:869:VAL:O	1:A:870:MET:HB3	2.07	0.52
1:B:121:TYR:O	1:B:227:GLY:HA2	2.09	0.52
1:B:205:GLN:NE2	1:C:309:GLU:O	2.41	0.52
1:B:231:ARG:O	1:B:240:ALA:HB2	2.10	0.52
1:B:615:LEU:HD13	1:B:615:LEU:O	2.08	0.52
1:B:622:MET:HB2	1:B:627:ALA:HB2	1.90	0.52
1:C:193:PHE:O	1:C:195:PRO:HD3	2.09	0.52
1:C:198:GLN:HE21	1:C:201:GLU:HA	1.73	0.52
1:C:811:TYR:CE1	1:C:857:PRO:HD2	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:139:GLU:OE1	1:F:445:ALA:HB2	2.09	0.52
1:D:186:ASP:CG	1:D:192:THR:HA	2.29	0.52
1:D:237:GLY:HA3	1:E:821:PHE:HB3	1.91	0.52
1:D:515:ASP:OD2	1:D:517:TYR:CD2	2.62	0.52
1:E:270:ALA:N	1:E:273:SER:HB2	2.24	0.52
1:E:495:PRO:CG	1:E:503:TYR:HB2	2.39	0.52
1:E:625:ASN:OD1	1:E:626:THR:N	2.42	0.52
1:E:682:ARG:NH1	1:E:910:MET:HE1	2.21	0.52
1:F:115:PRO:HB3	1:F:323:TYR:CE1	2.43	0.52
1:F:135:TRP:CZ2	1:F:156:THR:CG2	2.91	0.52
1:F:152:ASP:C	1:F:154:THR:H	2.12	0.52
1:F:350:SER:C	1:F:352:LEU:H	2.11	0.52
1:F:358:LEU:CD1	1:F:942:ARG:HE	2.21	0.52
1:F:445:ALA:HB1	1:F:448:ARG:HB2	0.83	0.52
1:F:481:LEU:HD23	1:F:529:MET:HG2	1.91	0.52
1:F:526:LEU:C	1:F:528:PRO:HD2	2.30	0.52
1:F:640:ASP:HB2	1:F:928:VAL:O	2.06	0.52
1:G:102:ASP:HB2	1:G:614:ASN:O	2.09	0.52
1:G:150:GLU:HB3	1:I:443:ASP:HB2	1.90	0.52
1:G:650:ALA:CA	1:G:942:ARG:HH21	2.22	0.52
1:G:802:SER:OG	1:G:862:LYS:HD3	2.09	0.52
1:G:927:ARG:O	1:G:938:ALA:HA	2.08	0.52
1:H:135:TRP:CZ2	1:H:156:THR:CG2	2.92	0.52
1:H:186:ASP:OD2	1:H:191:LYS:O	2.26	0.52
1:H:344:VAL:HG12	1:H:582:GLU:OE1	2.09	0.52
1:H:532:VAL:O	1:H:532:VAL:HG13	2.07	0.52
1:I:384:TRP:HA	1:I:384:TRP:CE3	2.43	0.52
1:I:405:ASP:C	1:I:406:GLU:OE2	2.47	0.52
1:I:516:ALA:O	1:I:520:ILE:HD11	2.09	0.52
1:J:15:ILE:HD11	1:K:923:PHE:CG	2.44	0.52
1:J:188:TYR:O	1:J:192:THR:CB	2.55	0.52
1:J:190:ASP:CG	1:J:191:LYS:H	2.12	0.52
1:J:298:VAL:HG21	1:J:317:MET:HG2	1.91	0.52
1:J:908:ASP:CB	1:J:909:PRO:HD2	2.36	0.52
1:K:19:ASP:HB2	1:K:47:ASN:HB2	1.91	0.52
1:K:121:TYR:N	1:K:121:TYR:CD1	2.77	0.52
1:K:303:THR:HA	1:K:491:ASN:OD1	2.09	0.52
1:K:360:ASP:O	1:K:651:ASN:HB2	2.09	0.52
1:K:454:LYS:NZ	1:K:454:LYS:CB	2.72	0.52
1:L:76:THR:HB	1:L:79:LEU:HD13	1.90	0.52
1:L:320:ARG:CZ	1:L:597:LEU:CD1	2.87	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:871:TRP:CE3	1:L:871:TRP:HA	2.44	0.52
2:N:292:VAL:HG21	3:O:7:VAL:HG11	1.90	0.52
2:N:426:ASP:C	2:N:428:ALA:H	2.12	0.52
4:M:149:PRO:CG	4:M:207:ARG:NH2	2.68	0.52
4:M:181:SER:O	4:M:182:GLY:C	2.48	0.52
4:M:227:THR:O	4:M:229:ASN:N	2.42	0.52
5:Q:31:VAL:O	5:Q:32:MET:C	2.45	0.52
5:R:41:VAL:O	5:R:43:PRO:CD	2.57	0.52
6:V:172:GLN:HE21	6:V:174:SER:H	1.57	0.52
7:3:9:LEU:O	7:3:9:LEU:CD1	2.57	0.52
1:A:202:GLU:O	1:A:206:GLU:CG	2.57	0.52
1:A:885:LEU:HD22	1:C:16:ALA:HB2	1.91	0.52
1:B:335:TYR:HE2	1:B:341:ASN:OD1	1.85	0.52
1:B:616:TYR:N	1:B:616:TYR:CD1	2.77	0.52
1:B:717:THR:O	1:B:908:ASP:OD1	2.26	0.52
1:C:220:THR:O	1:C:222:MET:N	2.42	0.52
1:C:323:TYR:O	1:C:324:ILE:HD13	2.10	0.52
1:C:407:LEU:O	1:C:407:LEU:CD1	2.51	0.52
1:C:634:LEU:O	1:C:634:LEU:HG	2.09	0.52
1:D:514:VAL:O	1:D:514:VAL:HG13	2.09	0.52
1:E:235:GLU:HB3	1:F:816:ALA:N	2.19	0.52
1:E:345:LEU:H	1:E:355:VAL:HG23	1.74	0.52
1:E:681:THR:O	1:E:916:LEU:O	2.28	0.52
1:E:869:VAL:CG2	1:E:870:MET:H	2.03	0.52
1:G:43:ASN:HD22	1:G:44:LYS:N	2.08	0.52
1:G:113:PHE:CZ	1:G:115:PRO:HB3	2.44	0.52
1:G:204:TRP:HE1	1:G:415:ASN:CG	2.13	0.52
1:G:508:VAL:HG23	1:G:834:PRO:HD3	1.92	0.52
1:G:643:PHE:CD1	1:G:643:PHE:N	2.76	0.52
1:G:771:LEU:HD23	1:G:879:PHE:HB2	1.90	0.52
1:G:828:PHE:CE1	1:I:125:ALA:CB	2.92	0.52
1:H:52:PRO:HG2	1:H:56:VAL:HG21	1.91	0.52
1:H:224:PRO:HG2	1:H:316:SER:OG	2.08	0.52
1:H:444:ASP:HA	1:I:152:ASP:HA	1.88	0.52
1:H:539:ARG:HG3	1:H:539:ARG:O	2.09	0.52
1:H:626:THR:O	1:H:628:SER:N	2.42	0.52
1:I:74:GLU:CB	1:I:81:LYS:HB3	2.39	0.52
1:I:107:LEU:HB2	1:I:558:PHE:CD2	2.45	0.52
1:I:487:TYR:HA	1:I:507:ARG:NH2	2.24	0.52
1:I:494:LEU:HD13	1:I:503:TYR:CE1	2.45	0.52
1:I:906:GLU:OE1	5:S:24:TRP:NE1	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:203:ASN:HD21	1:J:204:TRP:HE3	1.56	0.52
1:J:445:ALA:HB3	1:J:449:GLN:HB2	1.83	0.52
1:J:672:TRP:O	1:J:892:MET:CB	2.57	0.52
1:K:103:ILE:CG2	1:K:610:PHE:CD2	2.92	0.52
1:K:116:TYR:CE2	1:L:851:ILE:CD1	2.92	0.52
1:K:205:GLN:NE2	1:K:205:GLN:CA	2.67	0.52
1:K:392:ASP:OD2	1:K:395:VAL:N	2.39	0.52
1:K:426:VAL:HG12	1:K:440:TRP:HB3	1.91	0.52
1:K:718:PHE:CD2	1:K:907:VAL:HG22	2.45	0.52
1:K:732:PRO:HG3	1:K:743:PHE:CZ	2.41	0.52
1:K:757:ALA:O	1:K:758:GLN:HB2	2.09	0.52
1:K:807:ASP:H	1:K:858:SER:HB2	1.75	0.52
1:L:296:HIS:CE1	1:L:317:MET:HE2	2.44	0.52
1:L:489:PRO:CG	1:L:508:VAL:CG1	2.85	0.52
1:L:811:TYR:HD1	1:L:857:PRO:HD2	1.74	0.52
2:N:270:ASP:O	2:N:272:GLU:N	2.35	0.52
4:M:182:GLY:C	4:M:183:PRO:O	2.46	0.52
5:P:35:THR:CG2	5:P:40:PRO:N	2.71	0.52
5:P:39:ARG:HD3	5:P:39:ARG:C	2.27	0.52
5:Q:96:ILE:N	5:S:94:SER:HB3	2.24	0.52
5:R:1:MET:CE	5:R:1:MET:N	2.72	0.52
6:U:13:TYR:HE1	6:U:188:PHE:HB3	1.73	0.52
7:6:16:ARG:HB3	7:6:22:TRP:O	2.09	0.52
1:A:458:TYR:O	1:A:458:TYR:CD2	2.62	0.52
1:B:10:TRP:CB	1:B:16:ALA:HB3	2.39	0.52
1:B:131:ASN:CB	1:B:132:PRO:CD	2.73	0.52
1:B:138:LYS:HB3	1:B:147:VAL:CG1	2.31	0.52
1:B:564:GLN:O	1:B:564:GLN:HG3	2.09	0.52
1:B:630:LEU:O	1:B:634:LEU:HB2	2.09	0.52
1:B:652:MET:O	1:B:918:LEU:N	2.41	0.52
1:C:622:MET:HG2	1:C:627:ALA:HB2	1.91	0.52
1:D:188:TYR:HA	1:D:192:THR:HG23	1.90	0.52
1:D:500:THR:HG23	1:D:503:TYR:CB	2.38	0.52
1:D:574:LEU:HD12	1:D:936:ILE:HD11	1.91	0.52
1:E:35:THR:HG22	1:E:35:THR:O	2.09	0.52
1:E:36:ASP:OD2	1:E:36:ASP:C	2.46	0.52
1:E:172:LEU:HD11	1:E:193:PHE:HZ	1.75	0.52
1:E:192:THR:HG21	1:E:284:TYR:CG	2.43	0.52
1:E:455:GLY:HA2	1:F:161:ALA:CB	2.39	0.52
1:E:681:THR:O	1:E:917:TYR:HB3	2.09	0.52
1:E:719:LYS:CE	1:E:908:ASP:OD1	2.54	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:193:PHE:HE1	1:F:284:TYR:CZ	2.28	0.52
1:F:327:ARG:HG3	1:F:331:VAL:O	2.09	0.52
1:F:387:ALA:C	1:F:388:VAL:HG23	2.29	0.52
1:F:529:MET:O	1:F:529:MET:SD	2.67	0.52
1:G:134:GLN:HB2	1:G:155:LYS:HZ2	1.73	0.52
1:G:731:TRP:CZ3	1:G:876:SER:O	2.62	0.52
1:G:776:ILE:HD13	1:G:782:HIS:O	2.09	0.52
1:H:162:THR:O	1:H:211:TYR:HD2	1.91	0.52
1:H:426:VAL:O	1:H:426:VAL:HG23	2.09	0.52
1:I:26:PRO:HA	1:I:29:VAL:CG1	2.39	0.52
1:I:260:TYR:CE2	1:I:282:ILE:HG22	2.39	0.52
1:I:419:THR:HG23	1:I:451:GLN:HB2	1.86	0.52
1:I:530:ASP:OD1	1:I:530:ASP:C	2.46	0.52
1:I:757:ALA:CB	1:I:759:CYS:SG	2.98	0.52
1:J:281:ILE:HD13	1:L:423:TYR:CE1	2.44	0.52
1:J:408:PRO:HB2	1:J:410:TYR:CE1	2.44	0.52
1:J:524:TRP:HH2	1:J:863:LYS:CG	2.20	0.52
1:J:801:MET:CE	1:J:865:LEU:HB3	2.38	0.52
1:K:94:LEU:HB2	1:K:619:PHE:CE2	2.44	0.52
1:K:196:GLU:N	1:K:197:PRO:HD2	2.24	0.52
1:K:204:TRP:CE3	1:L:313:VAL:HG23	2.44	0.52
1:K:419:THR:CG2	1:K:451:GLN:HB3	2.38	0.52
1:K:443:ASP:CB	1:L:151:LYS:H	2.20	0.52
1:K:453:CYS:O	1:L:159:VAL:CA	2.47	0.52
1:K:553:GLY:HA3	1:L:804:GLN:HG3	1.91	0.52
1:L:371:LEU:HD13	1:L:377:ARG:HE	1.74	0.52
1:L:419:THR:HG21	1:L:451:GLN:CG	2.39	0.52
1:L:725:PHE:CE2	1:L:894:TYR:HE2	2.28	0.52
1:L:731:TRP:O	1:L:731:TRP:CE2	2.59	0.52
1:L:778:TYR:OH	1:L:878:ASN:HB2	2.09	0.52
2:N:175:ASP:HA	2:N:178:ASN:HB2	1.91	0.52
2:N:281:ASP:HB3	2:N:331:ILE:CD1	2.40	0.52
4:M:114:ASP:C	4:M:116:LEU:H	2.13	0.52
4:M:316:GLU:OE1	4:M:362:ASN:HB2	2.09	0.52
5:R:82:MET:CB	5:R:88:SER:OG	2.56	0.52
6:U:96:LEU:O	6:U:99:VAL:HG12	2.09	0.52
6:U:209:PRO:CG	6:U:212:PHE:CE1	2.90	0.52
7:1:9:LEU:O	7:1:11:PRO:HD3	2.09	0.52
1:A:46:ARG:HH12	1:B:925:VAL:HG11	1.75	0.52
1:A:130:PRO:CD	1:C:204:TRP:CZ2	2.93	0.52
1:A:258:PHE:CE1	1:A:284:TYR:CE2	2.97	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:460:MET:SD	1:C:460:MET:SD	3.07	0.52
1:A:713:TYR:HA	1:A:867:ASP:HB2	1.92	0.52
1:B:379:ARG:HH11	1:B:379:ARG:HB3	1.73	0.52
1:B:717:THR:HB	1:B:908:ASP:OD1	2.09	0.52
1:C:78:TYR:HD2	1:C:695:PHE:CZ	2.15	0.52
1:C:93:VAL:HG23	1:C:622:MET:CE	2.39	0.52
1:C:255:ASP:O	1:C:286:GLU:CB	2.56	0.52
1:C:333:LEU:O	1:C:333:LEU:HG	2.09	0.52
1:C:474:TYR:HA	1:C:478:ALA:HB3	1.90	0.52
1:C:637:ASP:HB2	1:C:929:HIS:CE1	2.38	0.52
1:C:893:LEU:HD21	6:U:227:ASP:HB2	0.53	0.52
1:D:44:LYS:HZ3	1:E:571:ASN:HB2	1.73	0.52
1:D:763:LYS:HE3	1:F:561:GLN:NE2	2.25	0.52
1:E:171:GLY:HA2	1:E:284:TYR:OH	2.10	0.52
1:E:193:PHE:HE1	1:E:284:TYR:HE1	1.57	0.52
1:E:201:GLU:HB3	1:F:838:GLN:OE1	2.10	0.52
1:E:237:GLY:HA3	1:F:821:PHE:HB3	1.89	0.52
1:E:358:LEU:HD12	1:E:358:LEU:N	2.25	0.52
1:E:676:ARG:NH2	7:3:5:ASN:CG	2.63	0.52
1:E:803:ARG:HE	1:E:861:GLN:HG3	1.75	0.52
1:F:192:THR:CG2	1:F:193:PHE:HD1	2.22	0.52
1:F:348:GLN:HE21	1:F:348:GLN:C	2.13	0.52
1:F:676:ARG:HE	1:F:921:GLU:HG2	1.69	0.52
1:F:760:ASN:HD22	1:F:760:ASN:N	2.03	0.52
1:F:776:ILE:HG13	1:F:782:HIS:CE1	2.43	0.52
1:F:906:GLU:O	1:F:906:GLU:CG	2.56	0.52
1:G:424:GLN:O	1:G:424:GLN:CG	2.57	0.52
1:G:568:ALA:HB2	1:G:926:VAL:HG21	1.92	0.52
1:H:243:LYS:HD2	1:H:243:LYS:N	2.19	0.52
1:H:392:ASP:OD1	1:H:393:PRO:HD2	2.09	0.52
1:H:517:TYR:HE2	1:H:824:ASN:ND2	2.08	0.52
1:H:556:VAL:O	1:H:556:VAL:CG1	2.58	0.52
1:H:657:PRO:CG	5:Q:12:LEU:HD13	2.39	0.52
1:H:672:TRP:HZ3	1:H:945:PHE:CZ	2.24	0.52
1:I:425:GLY:CA	1:I:444:ASP:HB3	2.33	0.52
1:I:773:HIS:CD2	1:I:794:PHE:H	2.27	0.52
1:I:856:VAL:HG23	1:I:857:PRO:HD2	1.90	0.52
1:I:943:THR:HB	1:I:944:PRO:HD3	1.89	0.52
1:J:488:THR:O	1:J:488:THR:HG23	2.08	0.52
1:J:523:ARG:HB3	1:L:548:MET:HE2	1.90	0.52
1:J:831:TYR:CE2	1:J:832:LEU:HD12	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:929:HIS:O	1:J:929:HIS:CG	2.61	0.52
1:K:328:ASP:O	1:K:329:ASN:HB2	2.09	0.52
1:K:531:ASN:HB2	1:K:714:LEU:HD21	1.91	0.52
1:K:537:HIS:CD2	1:K:538:PRO:HD2	2.44	0.52
1:K:584:ASN:HD22	1:K:584:ASN:N	1.88	0.52
1:K:704:SER:O	1:K:706:PRO:HD3	2.10	0.52
1:L:93:VAL:HG12	1:L:575:LEU:HD23	1.92	0.52
1:L:135:TRP:HZ3	1:L:156:THR:HG21	1.73	0.52
1:L:154:THR:CG2	1:L:155:LYS:N	2.72	0.52
1:L:342:MET:CE	1:L:357:ASP:H	2.19	0.52
1:L:649:ALA:CB	1:L:921:GLU:HA	2.40	0.52
2:N:39:ARG:HH12	2:N:518:THR:HB	1.74	0.52
2:N:394:GLN:HG3	2:N:395:ASP:H	1.75	0.52
2:N:416:MET:C	2:N:418:PHE:N	2.63	0.52
5:P:9:GLU:HB2	5:Q:27:VAL:HG13	1.91	0.52
5:Q:9:GLU:HG2	5:Q:13:PHE:HB3	1.92	0.52
5:Q:12:LEU:HD12	5:Q:15:PRO:CG	2.39	0.52
6:V:31:MET:HE2	6:V:44:VAL:HG22	1.90	0.52
7:2:27:THR:HG22	7:2:27:THR:O	2.08	0.52
1:A:278:LYS:HG3	1:C:426:VAL:HG11	1.90	0.52
1:A:407:LEU:HD11	1:C:474:TYR:HB3	1.92	0.52
1:A:921:GLU:C	1:A:922:VAL:HG13	2.30	0.52
1:A:928:VAL:HG12	1:A:938:ALA:HB2	1.91	0.52
1:B:38:TYR:OH	7:1:24:GLU:HG2	2.10	0.52
1:B:330:PHE:CB	1:B:562:VAL:HG12	2.40	0.52
1:C:83:ARG:NH1	1:J:69:VAL:CB	2.71	0.52
1:D:239:GLN:O	1:D:241:LYS:HE3	2.09	0.52
1:D:479:LEU:CD1	1:E:406:GLU:OE2	2.57	0.52
1:D:730:SER:O	1:D:733:GLY:N	2.42	0.52
1:E:419:THR:O	1:E:419:THR:CG2	2.56	0.52
1:E:489:PRO:HB2	1:E:492:VAL:HG22	1.91	0.52
1:E:715:ASN:HD21	1:E:870:MET:HA	1.74	0.52
1:E:922:VAL:HG11	1:E:945:PHE:N	2.25	0.52
1:E:931:PRO:HD2	1:E:935:VAL:O	2.10	0.52
1:F:69:VAL:HG22	1:F:70:PRO:HD2	1.91	0.52
1:F:99:THR:HG22	1:F:617:ALA:CB	2.40	0.52
1:F:167:ILE:HG21	1:F:282:ILE:HG23	1.90	0.52
1:F:470:LYS:HB3	1:F:470:LYS:NZ	2.24	0.52
1:F:718:PHE:C	1:F:745:ILE:HG21	2.26	0.52
1:F:935:VAL:O	1:F:935:VAL:HG13	2.10	0.52
1:G:26:PRO:O	1:G:29:VAL:HG12	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:685:THR:HG21	1:G:913:PRO:CB	2.28	0.52
1:H:79:LEU:HD12	1:H:79:LEU:H	1.72	0.52
1:H:148:GLN:HE21	1:H:150:GLU:CD	2.12	0.52
1:H:571:ASN:C	1:H:571:ASN:HD22	2.13	0.52
1:H:672:TRP:CZ3	1:H:945:PHE:CE1	2.96	0.52
1:H:680:PHE:HE1	1:H:873:ILE:CD1	2.23	0.52
1:I:19:ASP:OD2	1:I:47:ASN:CB	2.56	0.52
1:I:119:THR:HG22	1:I:226:TYR:CZ	2.44	0.52
1:I:377:ARG:HH11	1:I:377:ARG:HG3	1.73	0.52
1:J:253:ASP:OD1	1:J:254:LEU:N	2.36	0.52
1:J:497:ASN:OD1	1:J:500:THR:HG22	2.09	0.52
1:J:676:ARG:O	1:J:875:PHE:CB	2.58	0.52
1:J:836:MET:HE2	1:L:203:ASN:CB	2.40	0.52
1:J:928:VAL:CA	1:J:937:GLU:O	2.47	0.52
1:K:135:TRP:CB	1:K:307:SER:HB3	2.25	0.52
1:K:367:TYR:CE1	1:K:570:LYS:NZ	2.68	0.52
1:K:647:LEU:CD2	1:K:649:ALA:HB3	2.38	0.52
1:L:13:MET:HB3	1:L:15:ILE:HG13	1.91	0.52
1:L:135:TRP:CZ2	1:L:153:VAL:HG12	2.44	0.52
1:L:660:ALA:HB2	5:Q:99:GLU:CB	2.40	0.52
1:L:752:GLU:HG3	1:L:754:TYR:CD1	2.41	0.52
2:N:268:TYR:CE1	2:N:352:ARG:HD2	2.44	0.52
2:N:325:LYS:N	3:O:6:ARG:CZ	2.71	0.52
2:N:450:ASN:HB3	2:N:453:LEU:HB3	1.92	0.52
4:M:6:PRO:HG2	4:M:11:ARG:NH2	2.23	0.52
4:M:377:ASP:OD1	4:M:377:ASP:N	2.42	0.52
5:P:22:PRO:HB2	5:P:24:TRP:CE2	2.45	0.52
5:P:112:SER:O	5:P:116:ALA:HB2	2.10	0.52
6:V:197:TYR:OH	6:V:200:PRO:O	2.23	0.52
6:V:215:ASN:HD22	6:V:223:VAL:CG1	2.22	0.52
1:A:36:ASP:HA	1:A:40:SER:CB	2.39	0.52
1:A:235:GLU:CA	1:B:815:LYS:HB3	2.38	0.52
1:A:257:ASP:O	1:A:284:TYR:HA	2.09	0.52
1:A:383:MET:SD	1:B:756:VAL:CG1	2.98	0.52
1:A:739:THR:N	1:A:740:PRO:HD3	2.24	0.52
1:A:837:ARG:HG2	1:A:838:GLN:N	2.24	0.52
1:A:846:PHE:HB3	1:A:847:PRO:CD	2.39	0.52
1:B:131:ASN:ND2	1:B:131:ASN:H	2.08	0.52
1:B:242:PHE:CE2	1:B:287:ASN:C	2.83	0.52
1:B:242:PHE:C	1:B:243:LYS:O	2.46	0.52
1:B:303:THR:O	1:B:303:THR:CG2	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:602:ARG:NH1	1:B:697:PRO:HA	2.25	0.52
1:C:188:TYR:HD1	1:C:256:ILE:CB	2.23	0.52
1:C:653:LEU:HD11	1:C:707:TYR:HE1	1.71	0.52
1:C:711:THR:O	1:C:711:THR:HG23	2.08	0.52
1:C:731:TRP:HZ2	1:C:875:PHE:CG	2.28	0.52
1:C:811:TYR:HD1	1:C:857:PRO:CG	2.22	0.52
1:C:901:LEU:O	1:C:902:ASP:HB3	2.08	0.52
1:D:57:THR:O	1:D:57:THR:HG23	2.09	0.52
1:D:137:THR:HG22	1:D:152:ASP:O	2.09	0.52
1:D:222:MET:HE3	1:D:307:SER:CA	2.37	0.52
1:E:41:LEU:H	1:E:41:LEU:CD2	2.22	0.52
1:E:199:VAL:O	1:E:199:VAL:CG1	2.57	0.52
1:E:239:GLN:O	1:E:241:LYS:HG2	2.10	0.52
1:E:344:VAL:HG23	1:E:345:LEU:N	2.24	0.52
1:E:415:ASN:HD21	1:E:418:GLY:HA2	1.75	0.52
1:E:508:VAL:HG21	1:E:834:PRO:HD2	1.91	0.52
1:E:922:VAL:CG2	1:E:942:ARG:CG	2.87	0.52
1:F:377:ARG:HG3	1:F:377:ARG:HH11	1.73	0.52
1:F:908:ASP:HB2	1:F:909:PRO:HD2	1.90	0.52
1:G:50:VAL:HG12	1:H:890:GLN:NE2	2.20	0.52
1:G:72:ASP:OD1	1:G:72:ASP:O	2.27	0.52
1:G:330:PHE:CD2	1:G:562:VAL:HG12	2.45	0.52
1:G:411:CYS:CB	1:I:462:ILE:HB	2.39	0.52
1:G:675:PHE:HB2	1:G:944:PRO:HG3	1.92	0.52
1:G:731:TRP:CG	1:G:732:PRO:HD3	2.44	0.52
1:G:818:THR:C	1:G:820:PRO:HD2	2.30	0.52
1:H:403:VAL:HG22	1:H:465:GLN:HG3	1.90	0.52
1:H:524:TRP:CE2	1:H:803:ARG:HG2	2.42	0.52
1:H:741:ASN:HB3	1:H:742:GLU:OE2	2.10	0.52
1:H:873:ILE:H	1:H:873:ILE:HD12	1.74	0.52
1:I:84:PHE:CE2	1:I:614:ASN:HA	2.44	0.52
1:I:191:LYS:HG2	1:I:191:LYS:O	2.09	0.52
1:I:571:ASN:ND2	1:I:571:ASN:N	2.58	0.52
1:I:597:LEU:O	1:I:597:LEU:CD2	2.55	0.52
1:I:649:ALA:CA	1:I:920:PHE:O	2.55	0.52
1:I:670:ARG:HH11	1:I:670:ARG:HG2	1.75	0.52
1:I:744:GLU:O	1:I:765:TRP:CB	2.49	0.52
1:J:296:HIS:CE1	1:J:319:ASN:HA	2.45	0.52
1:J:461:GLU:HG2	1:L:126:PRO:HB3	1.92	0.52
1:J:486:LYS:HE3	1:J:509:VAL:HG22	1.90	0.52
1:K:25:SER:OG	1:K:27:GLY:N	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:188:TYR:O	1:K:256:ILE:HD13	2.10	0.52
1:K:242:PHE:CE2	1:K:289:ASN:ND2	2.77	0.52
1:K:343:GLY:HA3	1:K:583:TRP:CE3	2.44	0.52
1:K:445:ALA:HA	1:L:139:GLU:OE1	2.10	0.52
1:K:771:LEU:HD21	1:K:778:TYR:CZ	2.44	0.52
1:K:833:ALA:CB	1:K:835:THR:HG23	2.40	0.52
1:L:415:ASN:O	1:L:415:ASN:CG	2.46	0.52
2:N:151:GLN:O	2:N:151:GLN:CG	2.57	0.52
4:M:3:GLN:C	4:M:4:GLN:HG3	2.28	0.52
5:S:76:ARG:CD	5:S:77:LEU:HG	2.38	0.52
6:U:98:GLU:HG3	6:U:108:LEU:CD1	2.39	0.52
6:U:190:GLU:HG2	6:U:190:GLU:O	2.10	0.52
6:U:213:ILE:CD1	6:U:216:PHE:HB2	2.38	0.52
1:A:155:LYS:HG3	1:A:261:PHE:HZ	1.75	0.52
1:A:543:LEU:HA	1:A:546:ARG:NH1	2.25	0.52
1:A:562:VAL:O	1:A:562:VAL:HG23	2.08	0.52
1:B:79:LEU:HD11	1:B:341:ASN:HD21	1.75	0.52
1:B:297:VAL:O	1:B:297:VAL:HG23	2.09	0.52
1:B:729:VAL:HG12	1:B:729:VAL:O	2.10	0.52
1:B:752:GLU:HB2	1:B:754:TYR:CD1	2.45	0.52
1:B:811:TYR:CE1	1:B:857:PRO:CD	2.86	0.52
1:C:52:PRO:CG	7:1:23:ASN:OD1	2.58	0.52
1:C:155:LYS:HZ1	1:C:215:ALA:HB3	1.74	0.52
1:C:349:ALA:O	1:J:87:ALA:HB2	2.10	0.52
1:C:398:ILE:HD11	1:C:473:LEU:HD11	1.91	0.52
1:C:800:PRO:O	1:C:801:MET:HG3	2.10	0.52
1:C:922:VAL:HG21	1:C:944:PRO:O	2.10	0.52
1:D:210:PHE:CD1	1:D:210:PHE:N	2.78	0.52
1:D:468:LEU:HD23	1:E:465:GLN:NE2	2.25	0.52
1:D:634:LEU:C	1:D:636:ASN:N	2.62	0.52
1:D:854:THR:HG21	1:F:291:GLU:OE1	2.08	0.52
1:E:50:VAL:HA	1:F:885:LEU:HB2	1.90	0.52
1:E:135:TRP:CZ3	1:E:153:VAL:CG1	2.91	0.52
1:E:196:GLU:H	1:E:197:PRO:HD2	1.74	0.52
1:E:399:GLU:HG3	1:E:523:ARG:HB3	1.92	0.52
1:E:428:ILE:HD11	1:F:169:ASN:HA	1.91	0.52
1:E:683:LEU:HD22	1:E:683:LEU:H	1.73	0.52
1:F:294:ASP:OD1	1:F:295:THR:HG23	2.09	0.52
1:F:427:LYS:HB2	1:F:442:LYS:HD2	1.92	0.52
1:F:464:LEU:O	1:F:468:LEU:N	2.38	0.52
1:F:539:ARG:HG2	1:F:539:ARG:NH1	2.22	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:593:LEU:CB	1:F:601:LEU:CD1	2.85	0.52
1:F:680:PHE:N	1:F:680:PHE:CD1	2.77	0.52
1:F:711:THR:O	1:F:711:THR:HG23	2.09	0.52
1:G:45:PHE:HD2	1:H:640:ASP:O	1.92	0.52
1:G:107:LEU:CG	1:G:108:ASP:H	2.23	0.52
1:G:187:ILE:O	1:G:189:ALA:N	2.43	0.52
1:G:210:PHE:HE2	1:G:278:LYS:NZ	2.08	0.52
1:G:449:GLN:HB3	1:H:153:VAL:CG1	2.37	0.52
1:G:583:TRP:HD1	1:G:584:ASN:H	1.56	0.52
1:H:853:GLN:H	1:H:853:GLN:NE2	2.07	0.52
1:H:942:ARG:HB2	1:H:946:SER:HA	1.89	0.52
1:I:339:THR:HA	1:I:342:MET:CE	2.38	0.52
1:I:554:ARG:HB2	1:I:555:TYR:CE2	2.44	0.52
1:J:3:THR:HA	1:K:892:MET:CE	2.38	0.52
1:J:116:TYR:H	1:J:116:TYR:HD1	1.49	0.52
1:J:229:PHE:CG	1:J:230:ALA:N	2.78	0.52
1:J:423:TYR:HB3	1:K:261:PHE:HB3	1.91	0.52
1:J:452:ILE:HG12	1:K:158:GLY:HA3	1.92	0.52
1:J:662:ASN:C	5:P:12:LEU:HD23	2.30	0.52
1:J:811:TYR:HD2	1:J:814:TYR:HB2	1.74	0.52
1:J:844:ALA:O	1:L:229:PHE:CA	2.56	0.52
1:K:517:TYR:HD1	1:K:517:TYR:O	1.92	0.52
1:K:637:ASP:O	1:K:638:THR:C	2.48	0.52
1:K:853:GLN:OE1	1:K:853:GLN:N	2.19	0.52
1:K:887:ASP:OD1	1:K:888:LEU:N	2.43	0.52
1:L:111:PRO:HD2	1:L:604:ASP:HB3	1.91	0.52
1:L:527:ASP:O	1:L:528:PRO:C	2.48	0.52
1:L:656:ILE:CG2	1:L:914:THR:C	2.78	0.52
1:L:667:ILE:HD12	1:L:901:LEU:CD2	2.39	0.52
2:N:43:ARG:O	2:N:43:ARG:CG	2.57	0.52
6:U:198:PHE:O	6:U:199:ASN:OD1	2.28	0.52
7:4:21:THR:O	7:4:21:THR:HG22	2.10	0.52
1:A:129:ALA:HA	1:C:204:TRP:HH2	1.75	0.52
1:A:384:TRP:HA	1:A:384:TRP:HE3	1.74	0.52
1:A:635:ARG:HD3	1:A:931:PRO:O	2.10	0.52
1:A:804:GLN:HE22	1:C:552:ASN:H	1.57	0.52
1:A:929:HIS:HB3	1:A:937:GLU:CG	2.40	0.52
1:B:242:PHE:HZ	1:B:288:VAL:N	2.01	0.52
1:C:267:SER:CB	1:C:268:PRO:HD3	2.39	0.52
1:C:527:ASP:OD2	1:C:863:LYS:NZ	2.43	0.52
1:C:572:LEU:HA	1:C:643:PHE:HZ	1.72	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:428:ILE:HD13	1:E:169:ASN:HB3	1.77	0.52
1:D:502:GLU:C	1:D:502:GLU:OE1	2.48	0.52
1:D:926:VAL:O	1:D:926:VAL:HG23	2.09	0.52
1:E:540:ASN:HB3	1:E:543:LEU:HB3	1.92	0.52
1:E:922:VAL:CG1	1:E:944:PRO:CD	2.88	0.52
1:F:82:ALA:O	1:F:582:GLU:HB2	2.10	0.52
1:F:103:ILE:CG2	1:F:104:ARG:N	2.73	0.52
1:G:76:THR:CB	1:G:79:LEU:HD12	2.40	0.52
1:G:367:TYR:CD1	1:G:570:LYS:NZ	2.77	0.52
1:G:401:HIS:CD2	1:I:544:ARG:HE	2.26	0.52
1:G:573:LEU:N	1:G:641:GLN:HE21	2.05	0.52
1:G:665:ILE:HD13	1:G:918:LEU:HD22	1.92	0.52
1:H:198:GLN:OE1	1:I:839:GLY:CA	2.58	0.52
1:H:417:THR:HG21	1:I:159:VAL:HG21	1.91	0.52
1:H:721:VAL:N	1:H:743:PHE:O	2.42	0.52
1:H:912:GLU:CB	1:H:913:PRO:HD2	2.36	0.52
1:I:571:ASN:HD22	1:I:571:ASN:H	1.58	0.52
1:J:151:LYS:HE2	1:J:218:LYS:HG2	1.92	0.52
1:J:191:LYS:CG	1:J:194:GLN:HE21	2.22	0.52
1:J:214:ARG:HD3	1:K:842:TYR:CZ	2.45	0.52
1:J:230:ALA:CB	1:J:288:VAL:HG21	2.40	0.52
1:J:474:TYR:O	1:J:478:ALA:HB2	2.07	0.52
1:K:193:PHE:HE1	1:K:284:TYR:HE1	1.57	0.52
1:K:444:ASP:HA	1:L:152:ASP:HA	1.92	0.52
1:K:626:THR:C	1:K:628:SER:H	2.13	0.52
1:L:66:LEU:CD1	1:L:619:PHE:CE1	2.89	0.52
4:M:297:PHE:O	4:M:301:ASN:OD1	2.27	0.52
5:P:33:GLY:HA2	5:P:44:ALA:HB3	1.85	0.52
5:P:35:THR:HA	5:P:43:PRO:CG	2.36	0.52
1:A:446:ILE:HG13	1:A:447:SER:CB	2.40	0.52
1:A:497:ASN:N	1:A:497:ASN:ND2	2.58	0.52
1:A:497:ASN:O	1:A:500:THR:HG22	2.10	0.52
1:A:720:LYS:HE2	1:A:744:GLU:OE1	2.10	0.52
1:B:477:VAL:HG22	1:B:477:VAL:O	2.10	0.52
1:B:670:ARG:NH2	1:B:945:PHE:HE2	1.66	0.52
1:B:775:ASN:CB	1:B:880:MET:CE	2.83	0.52
1:B:831:TYR:CE2	1:B:832:LEU:HD11	2.40	0.52
1:C:70:PRO:HG2	1:C:73:ARG:CZ	2.37	0.52
1:C:139:GLU:HB2	1:C:152:ASP:HB2	1.90	0.52
1:C:397:ILE:HD11	1:C:799:GLN:HG3	1.92	0.52
1:D:126:PRO:HG2	1:D:129:ALA:HB2	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:415:ASN:O	1:E:129:ALA:HA	2.10	0.52
1:D:458:TYR:HA	1:F:837:ARG:HH12	1.75	0.52
1:E:13:MET:O	1:E:14:HIS:HB2	2.10	0.52
1:E:83:ARG:HA	1:E:582:GLU:HB2	1.92	0.52
1:E:222:MET:HE3	1:E:307:SER:CA	2.40	0.52
1:E:367:TYR:CE2	1:E:565:LYS:NZ	2.78	0.52
1:E:370:LEU:HD23	1:E:570:LYS:HE3	1.91	0.52
1:E:676:ARG:CZ	7:3:5:ASN:OD1	2.57	0.52
1:F:339:THR:CG2	1:H:740:PRO:HG2	2.40	0.52
1:F:656:ILE:CD1	1:F:682:ARG:HH21	2.20	0.52
1:F:731:TRP:O	1:F:731:TRP:CE2	2.62	0.52
1:F:754:TYR:HA	1:F:763:LYS:CB	2.40	0.52
1:G:76:THR:CG2	1:G:79:LEU:HD12	2.39	0.52
1:G:94:LEU:HA	1:G:619:PHE:HD1	1.74	0.52
1:G:204:TRP:HZ2	1:G:415:ASN:CB	2.20	0.52
1:G:263:VAL:CG1	1:G:264:PRO:CD	2.83	0.52
1:G:313:VAL:HG12	1:I:203:ASN:HB2	1.86	0.52
1:G:673:ALA:HB3	1:G:943:THR:HG22	1.86	0.52
1:G:723:ILE:HG22	1:G:903:MET:HG2	1.87	0.52
1:G:821:PHE:HA	1:I:194:GLN:NE2	2.24	0.52
1:H:151:LYS:CG	1:H:218:LYS:HE3	2.40	0.52
1:H:173:LEU:HB2	1:H:185:LYS:HZ3	1.74	0.52
1:H:662:ASN:C	1:H:662:ASN:ND2	2.63	0.52
1:H:851:ILE:HD13	1:H:851:ILE:H	1.75	0.52
1:I:206:GLU:OE1	1:I:206:GLU:CA	2.56	0.52
1:I:510:ALA:HB1	1:I:832:LEU:HA	1.92	0.52
1:J:831:TYR:CE2	1:J:832:LEU:HG	2.45	0.52
1:J:833:ALA:C	1:J:835:THR:N	2.63	0.52
1:K:422:THR:CG2	1:K:423:TYR:N	2.73	0.52
1:K:748:SER:HB3	1:K:760:ASN:HB3	1.92	0.52
1:K:764:ASP:OD2	1:K:764:ASP:N	2.30	0.52
1:K:822:GLN:OE1	1:K:846:PHE:CD1	2.63	0.52
1:L:28:LEU:O	1:L:31:PHE:HB3	2.10	0.52
1:L:74:GLU:HG2	1:L:81:LYS:O	2.10	0.52
1:L:109:ARG:NH1	1:L:113:PHE:HZ	2.01	0.52
1:L:377:ARG:CD	1:L:388:VAL:CG2	2.87	0.52
1:L:515:ASP:HB3	1:L:517:TYR:CE2	2.45	0.52
1:L:659:LYS:CB	1:L:659:LYS:HZ3	2.22	0.52
4:M:269:ASP:CG	4:M:294:THR:HG21	2.30	0.52
5:R:39:ARG:CG	5:R:41:VAL:HG21	2.40	0.52
6:U:57:GLU:C	6:U:59:ALA:N	2.63	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:U:70:ASN:O	6:U:70:ASN:OD1	2.28	0.52
6:V:3:LYS:HD3	6:V:3:LYS:N	2.23	0.52
6:V:213:ILE:HD12	6:V:213:ILE:N	2.16	0.52
7:7:10:ALA:N	7:7:11:PRO:HD3	2.25	0.52
7:7:19:MET:O	7:7:22:TRP:HZ3	1.93	0.52
1:A:131:ASN:ND2	1:A:131:ASN:H	2.07	0.52
1:A:214:ARG:HH12	1:A:241:LYS:CE	2.23	0.52
1:B:10:TRP:CZ2	1:C:674:ALA:HB2	2.44	0.52
1:B:498:THR:CG2	1:B:498:THR:O	2.56	0.52
1:B:594:GLN:HG3	1:B:703:GLY:O	2.10	0.52
1:B:794:PHE:CD2	1:B:794:PHE:C	2.83	0.52
1:D:407:LEU:HD11	1:F:474:TYR:CE2	2.41	0.52
1:D:433:ASP:OD1	1:D:434:GLY:CA	2.52	0.52
1:D:774:TYR:HB2	1:D:776:ILE:HG12	1.92	0.52
1:D:917:TYR:O	1:D:918:LEU:O	2.27	0.52
1:E:25:SER:N	1:F:639:HIS:HE1	2.08	0.52
1:E:162:THR:HA	1:E:199:VAL:HG23	1.92	0.52
1:E:196:GLU:H	1:E:197:PRO:CD	2.23	0.52
1:E:494:LEU:CD2	1:E:506:GLY:HA3	2.35	0.52
1:E:545:TYR:C	1:E:547:SER:N	2.64	0.52
1:E:575:LEU:HB2	1:E:635:ARG:HH21	1.72	0.52
1:F:139:GLU:HB2	1:F:152:ASP:OD2	2.10	0.52
1:F:184:LYS:O	1:F:184:LYS:HG2	2.10	0.52
1:F:243:LYS:HA	1:F:253:ASP:O	2.09	0.52
1:F:296:HIS:CE1	1:F:317:MET:HG3	2.45	0.52
1:F:470:LYS:HB3	1:F:470:LYS:HZ2	1.75	0.52
1:F:783:VAL:HG23	1:F:784:PRO:HD2	1.91	0.52
1:G:116:TYR:H	1:G:116:TYR:HD1	1.56	0.52
1:G:170:GLN:OE1	1:G:185:LYS:HE3	2.10	0.52
1:G:214:ARG:HH22	1:G:241:LYS:CE	2.23	0.52
1:G:449:GLN:CB	1:H:153:VAL:HG13	2.38	0.52
1:G:635:ARG:NH1	1:G:635:ARG:CG	2.66	0.52
1:H:196:GLU:OE1	1:H:196:GLU:N	2.43	0.52
1:H:298:VAL:CG1	1:H:299:TYR:N	2.73	0.52
1:I:99:THR:HG22	1:I:617:ALA:HA	1.92	0.52
1:I:746:LYS:O	1:I:747:ARG:C	2.49	0.52
1:I:847:PRO:O	1:I:848:TYR:HB2	2.09	0.52
1:J:26:PRO:HA	1:J:29:VAL:HG11	1.92	0.52
1:J:26:PRO:C	1:J:29:VAL:HG12	2.31	0.52
1:J:320:ARG:H	1:J:505:ASN:HD22	1.58	0.52
1:J:426:VAL:CG2	1:K:260:TYR:HB2	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:633:MET:SD	1:L:28:LEU:HA	2.51	0.52
1:J:644:ASN:HA	1:J:925:VAL:HA	1.92	0.52
1:J:803:ARG:HD3	1:J:861:GLN:HE21	1.73	0.52
1:J:923:PHE:CE1	7:9:5:ASN:ND2	2.78	0.52
1:K:647:LEU:HD21	1:K:919:LEU:HD11	1.92	0.52
1:K:929:HIS:O	1:K:931:PRO:HD3	2.10	0.52
1:L:96:MET:O	1:L:98:SER:N	2.42	0.52
1:L:100:TYR:CD1	1:L:100:TYR:N	2.78	0.52
1:L:119:THR:HG22	1:L:226:TYR:CE1	2.44	0.52
1:L:734:ASN:ND2	1:L:735:ASP:N	2.57	0.52
1:L:756:VAL:HG13	1:L:763:LYS:HG3	1.91	0.52
2:N:42:ILE:O	2:N:50:GLN:N	2.30	0.52
2:N:518:THR:O	2:N:518:THR:HG23	2.10	0.52
4:M:47:GLN:NE2	7:2:19:MET:HG3	2.25	0.52
5:R:126:ARG:HG2	5:R:126:ARG:O	2.10	0.52
1:A:36:ASP:OD2	1:A:36:ASP:N	2.44	0.51
1:A:428:ILE:N	1:A:438:SER:HA	2.25	0.51
1:A:726:ASP:HB3	1:E:670:ARG:NH2	2.25	0.51
1:A:783:VAL:HG12	1:A:784:PRO:CD	2.39	0.51
1:B:193:PHE:CD2	1:B:198:GLN:OE1	2.61	0.51
1:B:738:LEU:HG	1:B:754:TYR:HE2	1.75	0.51
1:B:828:PHE:HD1	1:B:828:PHE:H	1.59	0.51
1:B:877:SER:OG	1:B:887:ASP:CB	2.58	0.51
1:C:83:ARG:NH2	1:J:69:VAL:HB	2.23	0.51
1:C:366:SER:HB2	1:C:647:LEU:HB3	1.92	0.51
1:C:676:ARG:CG	1:C:921:GLU:HB3	2.41	0.51
1:C:737:LEU:HD11	1:C:743:PHE:CE2	2.45	0.51
1:C:738:LEU:HB2	1:C:754:TYR:CE2	2.37	0.51
1:D:358:LEU:HD12	1:D:358:LEU:N	2.25	0.51
1:D:489:PRO:HG2	1:D:492:VAL:HG21	1.93	0.51
1:E:80:TYR:HB3	1:E:585:PHE:HB2	1.92	0.51
1:E:134:GLN:HB3	1:E:154:THR:OG1	2.10	0.51
1:E:368:GLN:HA	1:E:368:GLN:OE1	2.10	0.51
1:F:203:ASN:OD1	1:F:203:ASN:C	2.48	0.51
1:F:626:THR:HG23	1:F:627:ALA:H	1.74	0.51
1:F:649:ALA:CB	1:F:920:PHE:O	2.58	0.51
1:F:661:THR:HG21	1:F:909:PRO:HD3	1.92	0.51
1:F:738:LEU:O	1:F:740:PRO:HD3	2.09	0.51
1:G:435:ALA:O	1:H:277:TYR:OH	2.22	0.51
1:G:503:TYR:C	1:G:505:ASN:H	2.13	0.51
1:H:43:ASN:HA	7:5:8:SER:HB3	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:385:ASN:O	1:H:385:ASN:OD1	2.27	0.51
1:H:697:PRO:HG2	1:H:698:TYR:HE2	1.70	0.51
1:I:55:ASP:O	1:I:623:ALA:HB2	2.11	0.51
1:I:222:MET:CG	1:I:307:SER:HB2	2.39	0.51
1:I:738:LEU:HD23	1:I:754:TYR:HD2	1.75	0.51
1:J:83:ARG:HD3	1:J:582:GLU:OE2	2.10	0.51
1:J:366:SER:C	1:J:368:GLN:N	2.63	0.51
1:J:840:GLN:CB	1:J:841:PRO:HD2	2.30	0.51
1:K:202:GLU:HB3	1:L:313:VAL:HG21	1.92	0.51
1:K:621:PRO:CD	1:L:778:TYR:CE2	2.92	0.51
1:K:621:PRO:HD3	1:L:778:TYR:HE2	1.75	0.51
1:K:928:VAL:HA	1:K:938:ALA:HB2	1.92	0.51
1:L:575:LEU:HD11	1:L:634:LEU:HB3	1.92	0.51
1:L:896:ASN:HD22	6:V:21:ALA:HB1	1.75	0.51
2:N:133:ARG:HH21	2:N:156:TYR:CB	2.23	0.51
2:N:404:GLN:HE21	2:N:407:ASN:HD22	0.52	0.51
4:M:6:PRO:HG3	4:M:11:ARG:HH22	1.73	0.51
4:M:6:PRO:HB2	4:M:11:ARG:CZ	2.40	0.51
4:M:173:VAL:HG12	4:M:177:GLU:HB3	1.91	0.51
4:M:272:THR:HG22	4:M:272:THR:O	2.10	0.51
5:P:36:VAL:HG22	5:P:43:PRO:HB2	1.92	0.51
5:R:100:LYS:HG2	5:R:100:LYS:O	2.10	0.51
6:U:58:GLN:HG2	6:U:58:GLN:O	2.10	0.51
7:6:22:TRP:CH2	7:6:25:ILE:HG12	2.45	0.51
1:A:83:ARG:HB2	1:A:582:GLU:HB2	1.92	0.51
1:A:107:LEU:HG	1:A:108:ASP:N	2.26	0.51
1:A:120:ALA:HB3	1:A:121:TYR:CE1	2.45	0.51
1:B:62:GLN:HE21	1:B:621:PRO:HA	1.75	0.51
1:B:190:ASP:OD1	1:B:191:LYS:N	2.43	0.51
1:B:202:GLU:CG	1:C:299:TYR:CZ	2.83	0.51
1:C:99:THR:HA	1:C:616:TYR:O	2.10	0.51
1:C:174:LEU:HD13	1:C:191:LYS:HZ1	1.73	0.51
1:C:463:ASN:O	1:C:467:ASN:CB	2.58	0.51
1:C:630:LEU:O	1:C:630:LEU:HD22	2.10	0.51
1:C:850:LEU:H	1:C:851:ILE:HD13	1.74	0.51
1:C:896:ASN:ND2	6:U:21:ALA:CB	2.39	0.51
1:D:117:SER:HB3	1:E:404:GLU:HA	1.92	0.51
1:D:396:ARG:HG2	1:D:396:ARG:NH1	2.24	0.51
1:D:463:ASN:HD21	1:D:466:ALA:H	1.58	0.51
1:D:756:VAL:CA	1:F:561:GLN:HE22	2.23	0.51
1:E:191:LYS:O	1:E:192:THR:O	2.27	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:327:ARG:NH1	1:E:594:GLN:HB3	2.26	0.51
1:E:333:LEU:CD1	1:E:592:ILE:HG23	2.39	0.51
1:E:422:THR:HG21	1:E:449:GLN:H	1.75	0.51
1:F:335:TYR:HD2	1:F:584:ASN:HB3	1.74	0.51
1:F:664:PRO:HG2	5:P:18:THR:HG21	1.91	0.51
1:F:674:ALA:C	1:F:944:PRO:HG3	2.31	0.51
1:F:731:TRP:HE1	1:F:888:LEU:CD2	2.23	0.51
1:F:893:LEU:HD22	1:J:949:ASN:O	2.10	0.51
1:G:64:LEU:O	1:G:64:LEU:HD23	2.11	0.51
1:G:87:ALA:HA	1:G:578:SER:HA	1.92	0.51
1:G:162:THR:OG1	1:G:193:PHE:HE1	1.89	0.51
1:G:169:ASN:CG	1:G:170:GLN:N	2.64	0.51
1:G:335:TYR:CE1	1:G:586:ARG:HB2	2.45	0.51
1:G:344:VAL:O	1:G:344:VAL:HG13	2.10	0.51
1:G:377:ARG:HB3	1:G:388:VAL:HG13	1.93	0.51
1:G:399:GLU:OE1	1:G:399:GLU:HA	2.10	0.51
1:G:787:TYR:CE1	1:G:788:LYS:HG2	2.44	0.51
1:H:89:GLY:HA3	1:H:92:ARG:HD2	1.91	0.51
1:H:132:PRO:CD	1:I:841:PRO:O	2.58	0.51
1:H:222:MET:CG	1:H:307:SER:HB3	2.25	0.51
1:H:235:GLU:CD	1:H:235:GLU:C	2.68	0.51
1:I:626:THR:O	1:I:627:ALA:C	2.49	0.51
1:I:916:LEU:HD22	1:I:916:LEU:C	2.31	0.51
1:J:18:GLN:HE21	1:J:19:ASP:N	2.08	0.51
1:J:81:LYS:HA	1:J:584:ASN:HA	1.92	0.51
1:J:290:LEU:HD12	1:J:291:GLU:N	2.25	0.51
1:J:413:PRO:HG3	1:J:458:TYR:HD2	1.76	0.51
1:J:500:THR:HG23	1:J:503:TYR:CB	2.39	0.51
1:J:759:CYS:HB2	1:J:800:PRO:CB	2.40	0.51
1:K:397:ILE:HG21	1:K:801:MET:HE1	1.92	0.51
1:K:470:LYS:NZ	1:K:470:LYS:HB3	2.25	0.51
1:K:807:ASP:OD2	1:K:810:ASN:HB2	2.10	0.51
1:L:208:GLU:HB2	1:L:211:TYR:CZ	2.44	0.51
1:L:268:PRO:CB	1:L:269:PRO:CD	2.89	0.51
1:L:455:GLY:O	1:L:456:ASN:C	2.44	0.51
1:L:681:THR:O	1:L:917:TYR:HB3	2.10	0.51
1:L:908:ASP:CB	1:L:909:PRO:CD	2.89	0.51
1:L:943:THR:HG23	6:V:16:GLN:NE2	2.17	0.51
2:N:202:LYS:CD	2:N:452:ILE:O	2.59	0.51
4:M:320:LEU:HD21	4:M:366:ASP:OD1	2.09	0.51
4:M:330:PHE:CD1	4:M:343:ASP:HB2	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:R:52:ALA:C	5:R:53:THR:O	2.46	0.51
5:S:21:LEU:HD12	5:S:22:PRO:HD2	1.91	0.51
6:U:10:MET:HA	6:U:10:MET:CE	2.32	0.51
6:V:57:GLU:HA	6:V:57:GLU:OE1	2.11	0.51
1:A:24:LEU:HD12	1:A:28:LEU:CD2	2.30	0.51
1:A:247:GLU:O	1:A:248:GLY:C	2.49	0.51
1:A:480:TYR:CZ	1:A:538:PRO:HD3	2.43	0.51
1:A:493:LYS:HG2	1:A:494:LEU:N	2.18	0.51
1:A:851:ILE:HD13	1:C:116:TYR:CE2	2.40	0.51
1:A:943:THR:OG1	1:A:944:PRO:HD3	2.10	0.51
1:B:380:TYR:HE2	1:B:387:ALA:CB	2.14	0.51
1:B:424:GLN:HA	1:B:449:GLN:OE1	2.10	0.51
1:B:769:GLN:HG3	1:B:794:PHE:HD1	1.67	0.51
1:C:241:LYS:HD3	1:C:256:ILE:HG12	1.91	0.51
1:C:404:GLU:O	1:C:465:GLN:HG3	2.11	0.51
1:C:510:ALA:HB1	1:C:832:LEU:HA	1.91	0.51
1:C:892:MET:HB3	6:U:215:ASN:HA	1.91	0.51
1:D:55:ASP:O	1:D:57:THR:HG22	2.10	0.51
1:D:449:GLN:HB2	1:E:153:VAL:HA	1.88	0.51
1:D:543:LEU:HD21	1:D:596:SER:CA	2.39	0.51
1:D:817:VAL:O	1:D:817:VAL:HG23	2.10	0.51
1:D:822:GLN:HB2	1:D:846:PHE:CD1	2.45	0.51
1:E:26:PRO:C	1:E:29:VAL:HG12	2.31	0.51
1:E:69:VAL:HB	1:E:70:PRO:CD	2.37	0.51
1:E:94:LEU:CD1	1:E:619:PHE:CE2	2.78	0.51
1:E:162:THR:CG2	1:E:193:PHE:CD2	2.93	0.51
1:E:705:ILE:C	1:E:707:TYR:H	2.13	0.51
1:E:822:GLN:NE2	1:E:846:PHE:CD1	2.78	0.51
1:F:199:VAL:CG1	1:F:206:GLU:HG3	2.40	0.51
1:F:361:ARG:O	1:F:363:THR:HG23	2.10	0.51
1:F:497:ASN:O	1:F:497:ASN:ND2	2.43	0.51
1:F:705:ILE:HD11	1:F:708:LEU:HD11	1.91	0.51
1:F:846:PHE:HB3	1:F:847:PRO:CD	2.40	0.51
1:F:858:SER:OG	1:F:859:VAL:N	2.43	0.51
1:G:29:VAL:CG1	1:G:30:GLN:N	2.72	0.51
1:G:38:TYR:N	1:G:38:TYR:CD2	2.77	0.51
1:G:239:GLN:O	1:G:241:LYS:HG2	2.09	0.51
1:G:380:TYR:CE1	1:G:387:ALA:CB	2.93	0.51
1:G:680:PHE:O	1:G:680:PHE:CG	2.60	0.51
1:G:837:ARG:HG2	1:G:838:GLN:N	2.24	0.51
1:G:893:LEU:O	1:G:893:LEU:HG	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:83:ARG:CB	1:H:582:GLU:HB3	2.41	0.51
1:H:296:HIS:O	1:H:316:SER:HB2	2.10	0.51
1:H:721:VAL:O	1:H:742:GLU:HB2	2.11	0.51
1:I:399:GLU:HB3	1:I:522:ALA:O	2.09	0.51
1:I:463:ASN:O	1:I:465:GLN:N	2.44	0.51
1:I:784:PRO:CD	1:I:795:PHE:CD2	2.94	0.51
1:I:791:MET:HE1	1:I:792:TYR:CE1	2.45	0.51
1:I:801:MET:HE2	1:I:865:LEU:CB	2.37	0.51
1:I:813:ASP:N	1:I:813:ASP:OD2	2.44	0.51
1:I:818:THR:CB	1:I:820:PRO:HD2	2.40	0.51
1:J:425:GLY:HA2	1:K:260:TYR:O	2.10	0.51
1:K:7:MET:HE3	1:K:12:TYR:CD1	2.44	0.51
1:K:10:TRP:CE3	1:K:16:ALA:HB2	2.45	0.51
1:K:29:VAL:HG13	1:K:30:GLN:N	2.25	0.51
1:K:620:PHE:HB2	1:L:778:TYR:CD2	2.45	0.51
1:K:705:ILE:HB	1:K:708:LEU:CD2	2.40	0.51
1:L:206:GLU:HA	1:L:206:GLU:OE1	2.10	0.51
1:L:490:ALA:O	1:L:491:ASN:CB	2.54	0.51
1:L:510:ALA:HA	1:L:832:LEU:O	2.11	0.51
1:L:536:ASN:HB3	1:L:596:SER:O	2.10	0.51
4:M:65:THR:HG22	4:M:66:ASN:N	2.16	0.51
5:Q:22:PRO:HB2	5:Q:24:TRP:CE2	2.46	0.51
5:R:49:MET:HE2	5:R:50:THR:N	2.23	0.51
5:R:49:MET:CG	5:R:50:THR:H	2.23	0.51
5:R:127:GLU:HA	5:R:130:GLN:OE1	2.10	0.51
5:S:4:THR:HG1	5:S:13:PHE:HE2	1.58	0.51
5:S:37:ASP:O	5:S:37:ASP:CG	2.43	0.51
1:A:196:GLU:HG3	1:B:823:HIS:HB3	1.91	0.51
1:A:446:ILE:HG13	1:A:447:SER:CA	2.38	0.51
1:A:446:ILE:HG13	1:A:447:SER:HB3	1.92	0.51
1:A:461:GLU:OE1	1:C:126:PRO:HA	2.11	0.51
1:A:480:TYR:CD1	1:A:537:HIS:CE1	2.99	0.51
1:A:778:TYR:O	1:A:779:GLN:HG3	2.11	0.51
1:B:120:ALA:C	1:B:121:TYR:CG	2.84	0.51
1:B:131:ASN:HB3	1:B:225:CYS:HB2	1.92	0.51
1:B:135:TRP:CZ2	1:B:309:GLU:CB	2.89	0.51
1:B:361:ARG:O	1:B:361:ARG:CG	2.42	0.51
1:C:370:LEU:HB2	1:C:646:TYR:CG	2.45	0.51
1:C:503:TYR:O	1:C:505:ASN:N	2.44	0.51
1:C:575:LEU:HD12	1:C:635:ARG:HB3	1.93	0.51
1:C:864:PHE:HD2	1:C:864:PHE:H	1.58	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:475:SER:OG	1:E:404:GLU:O	2.25	0.51
1:E:10:TRP:CZ2	1:F:674:ALA:HB2	2.45	0.51
1:E:13:MET:HG3	1:F:941:LEU:CD2	2.40	0.51
1:E:330:PHE:CD2	1:E:562:VAL:HG12	2.46	0.51
1:E:360:ASP:OD1	1:E:361:ARG:N	2.43	0.51
1:E:379:ARG:HD3	1:F:783:VAL:HG21	1.93	0.51
1:E:676:ARG:HH22	7:3:5:ASN:CG	2.14	0.51
1:F:113:PHE:CZ	1:F:115:PRO:HD3	2.45	0.51
1:F:667:ILE:O	1:F:900:ALA:HB1	2.10	0.51
1:G:323:TYR:CE1	1:G:544:ARG:HB3	2.45	0.51
1:G:356:VAL:CG1	1:G:356:VAL:O	2.59	0.51
1:G:685:THR:HG22	1:G:913:PRO:O	2.10	0.51
1:G:747:ARG:HH11	1:G:747:ARG:CB	2.23	0.51
1:G:925:VAL:HG12	1:I:46:ARG:NH1	2.22	0.51
1:H:83:ARG:CA	1:H:582:GLU:HB3	2.40	0.51
1:H:83:ARG:CG	1:H:582:GLU:HB3	2.39	0.51
1:H:323:TYR:CE2	1:H:544:ARG:HB2	2.45	0.51
1:I:103:ILE:HG23	1:I:613:VAL:HG23	1.79	0.51
1:I:131:ASN:CB	1:I:132:PRO:HD2	2.40	0.51
1:I:328:ASP:O	1:I:329:ASN:HB2	2.10	0.51
1:I:491:ASN:ND2	1:I:491:ASN:N	2.58	0.51
1:I:636:ASN:CG	1:I:637:ASP:N	2.64	0.51
1:J:44:LYS:HE2	1:K:573:LEU:HD23	1.90	0.51
1:J:80:TYR:O	1:J:584:ASN:CA	2.57	0.51
1:J:306:ASN:O	1:J:307:SER:HB2	2.10	0.51
1:J:593:LEU:HD22	1:J:593:LEU:N	2.18	0.51
1:J:732:PRO:HG3	1:J:743:PHE:CZ	2.46	0.51
1:K:320:ARG:HH11	1:K:597:LEU:HD11	1.76	0.51
1:K:589:VAL:HG21	1:K:606:ALA:CB	2.40	0.51
1:K:593:LEU:O	1:K:594:GLN:C	2.48	0.51
1:K:872:ARG:O	1:K:872:ARG:HD2	2.10	0.51
1:K:937:GLU:HB2	6:U:36:ALA:HA	1.91	0.51
1:L:157:PHE:HD1	1:L:312:LEU:HD21	1.76	0.51
1:L:405:ASP:OD2	1:L:463:ASN:ND2	2.44	0.51
4:M:159:TYR:CZ	4:M:163:ILE:HD11	2.45	0.51
5:R:12:LEU:HD21	5:R:17:LEU:HD11	1.83	0.51
5:S:65:ALA:O	5:S:68:ALA:HB3	2.10	0.51
6:U:13:TYR:HE1	6:U:188:PHE:HB2	1.74	0.51
6:V:31:MET:CE	6:V:44:VAL:HG22	2.41	0.51
7:3:16:ARG:CZ	7:3:21:THR:HG23	2.40	0.51
1:A:190:ASP:HB2	1:A:236:LYS:HD3	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:377:ARG:HG3	1:A:388:VAL:CG1	2.36	0.51
1:A:533:ASN:OD1	1:A:713:TYR:CD2	2.62	0.51
1:A:680:PHE:HE2	1:A:873:ILE:HD11	1.76	0.51
1:A:776:ILE:O	1:A:776:ILE:HG13	2.11	0.51
1:A:822:GLN:HB3	1:A:846:PHE:CD1	2.45	0.51
1:B:135:TRP:CZ2	1:B:309:GLU:OE1	2.64	0.51
1:B:351:GLN:HE22	2:N:400:ARG:NE	2.01	0.51
1:B:395:VAL:CG2	1:B:476:ASN:HB3	2.41	0.51
1:B:641:GLN:HB3	1:B:643:PHE:HZ	1.71	0.51
1:C:191:LYS:O	1:C:191:LYS:CG	2.55	0.51
1:C:492:VAL:HG23	1:C:492:VAL:O	2.10	0.51
1:C:651:ASN:OD1	1:C:651:ASN:O	2.28	0.51
1:C:724:MET:CA	1:C:729:VAL:CB	2.79	0.51
1:C:734:ASN:CA	1:C:736:ARG:HG2	2.41	0.51
1:C:910:MET:CE	1:C:914:THR:HB	2.41	0.51
1:D:456:ASN:HB3	1:F:837:ARG:CD	2.35	0.51
1:D:649:ALA:CB	1:D:919:LEU:CD1	2.88	0.51
1:D:757:ALA:CB	1:F:383:MET:HA	2.41	0.51
1:D:821:PHE:HB3	1:F:237:GLY:HA3	1.92	0.51
1:E:458:TYR:O	1:E:458:TYR:CD2	2.63	0.51
1:E:552:ASN:HB3	1:F:804:GLN:HG2	1.91	0.51
1:F:34:ALA:CB	7:4:26:GLY:O	2.59	0.51
1:F:115:PRO:HB3	1:F:323:TYR:HE1	1.76	0.51
1:F:130:PRO:HG2	1:F:157:PHE:CD2	2.44	0.51
1:F:196:GLU:N	1:F:197:PRO:HD2	2.25	0.51
1:F:224:PRO:HD3	1:F:314:GLN:HG3	1.92	0.51
1:F:676:ARG:HH21	1:F:921:GLU:CG	2.24	0.51
1:F:880:MET:HE2	1:F:880:MET:HA	1.92	0.51
1:G:83:ARG:HH21	1:G:580:THR:CG2	2.20	0.51
1:G:321:PRO:O	1:G:322:ASN:HB2	2.09	0.51
1:G:369:LEU:O	1:G:372:ASP:N	2.43	0.51
1:G:502:GLU:OE2	1:G:503:TYR:N	2.44	0.51
1:G:522:ALA:HA	1:I:548:MET:HB2	1.92	0.51
1:H:10:TRP:HB3	1:H:15:ILE:HB	1.92	0.51
1:H:346:ALA:HB1	1:H:353:ASN:N	2.26	0.51
1:H:519:ASN:HB3	1:H:522:ALA:HB3	1.92	0.51
1:H:951:THR:CG2	1:J:892:MET:SD	2.99	0.51
1:I:298:VAL:CB	1:I:317:MET:HG2	2.39	0.51
1:I:809:ILE:HD13	5:S:41:VAL:CG1	2.41	0.51
1:J:107:LEU:HD12	1:J:593:LEU:HD11	1.93	0.51
1:J:367:TYR:O	1:J:371:LEU:HB2	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:830:GLY:HA2	1:J:838:GLN:HG2	1.93	0.51
1:J:909:PRO:CG	5:Q:48:THR:C	2.69	0.51
1:K:99:THR:HG22	1:K:617:ALA:CB	2.41	0.51
1:K:204:TRP:CZ3	1:L:313:VAL:CG2	2.94	0.51
1:K:400:ASN:HD22	1:K:469:TRP:HZ2	1.59	0.51
1:K:422:THR:HG22	1:L:264:PRO:HG3	1.92	0.51
1:K:629:THR:C	1:K:631:GLU:H	2.14	0.51
1:K:943:THR:HB	1:K:944:PRO:HD3	1.91	0.51
1:L:222:MET:CE	1:L:311:ASN:HB3	2.40	0.51
1:L:322:ASN:HD22	1:L:323:TYR:N	2.05	0.51
1:L:473:LEU:O	1:L:477:VAL:HG11	2.06	0.51
1:L:564:GLN:HA	1:L:564:GLN:HE21	1.76	0.51
1:L:670:ARG:CG	1:L:671:ASN:H	2.23	0.51
2:N:110:LEU:HD13	2:N:509:VAL:HG22	1.92	0.51
4:M:204:LYS:HA	4:M:207:ARG:HB2	1.91	0.51
5:R:70:ALA:C	5:R:73:THR:HG22	2.31	0.51
1:A:163:GLY:HA3	1:A:208:GLU:HG3	1.92	0.51
1:A:226:TYR:CE2	1:A:318:PRO:HD3	2.46	0.51
1:A:414:LEU:CD1	1:B:837:ARG:NE	2.74	0.51
1:B:199:VAL:HG12	1:B:200:GLY:H	1.74	0.51
1:B:562:VAL:HG23	1:B:562:VAL:O	2.11	0.51
1:B:771:LEU:HD11	1:B:778:TYR:CE2	2.45	0.51
1:C:840:GLN:NE2	1:C:840:GLN:O	2.44	0.51
1:C:892:MET:CE	1:C:892:MET:CA	2.88	0.51
1:C:893:LEU:HD22	6:U:227:ASP:H	1.76	0.51
1:C:930:GLN:HB3	1:C:936:ILE:HA	1.91	0.51
1:D:201:GLU:HG3	1:E:838:GLN:OE1	2.11	0.51
1:D:370:LEU:HB2	1:D:646:TYR:HB2	1.92	0.51
1:D:839:GLY:H	1:F:198:GLN:HB2	1.74	0.51
1:E:546:ARG:NH1	1:E:546:ARG:HB2	2.26	0.51
1:E:643:PHE:O	1:E:925:VAL:HG12	2.10	0.51
1:F:99:THR:HG22	1:F:617:ALA:HA	1.91	0.51
1:F:151:LYS:HG2	1:F:154:THR:CG2	2.41	0.51
1:F:208:GLU:HG3	1:F:209:ALA:H	1.76	0.51
1:F:267:SER:O	1:F:268:PRO:C	2.49	0.51
1:F:334:MET:CE	1:F:336:TYR:OH	2.59	0.51
1:F:731:TRP:N	1:F:732:PRO:HD3	2.24	0.51
1:G:76:THR:OG1	1:G:79:LEU:HB2	2.10	0.51
1:G:86:LEU:O	1:G:86:LEU:HG	2.10	0.51
1:G:344:VAL:CG1	1:G:582:GLU:HG2	2.41	0.51
1:G:364:GLU:C	1:G:366:SER:H	2.14	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:449:GLN:CD	1:G:449:GLN:N	2.64	0.51
1:H:67:ARG:CZ	1:I:752:GLU:OE1	2.58	0.51
1:H:176:THR:HG22	1:H:177:ASP:N	2.26	0.51
1:H:656:ILE:O	1:H:657:PRO:C	2.48	0.51
1:H:713:TYR:C	1:H:713:TYR:CD1	2.84	0.51
1:I:90:ASP:OD1	1:I:91:ASN:N	2.43	0.51
1:I:309:GLU:OE2	1:I:310:ILE:CG1	2.55	0.51
1:I:384:TRP:O	1:I:385:ASN:HB3	2.09	0.51
1:I:809:ILE:CD1	1:I:810:ASN:OD1	2.59	0.51
1:J:44:LYS:HE2	1:K:573:LEU:CD2	2.40	0.51
1:J:114:LYS:HG3	1:K:851:ILE:HD11	1.92	0.51
1:J:488:THR:HB	1:J:507:ARG:HH21	1.75	0.51
1:J:721:VAL:HG13	1:J:905:PHE:CA	2.39	0.51
1:J:770:MET:HE1	1:J:795:PHE:HB2	1.93	0.51
1:K:116:TYR:HE2	1:L:851:ILE:HD11	1.75	0.51
1:K:329:ASN:HD21	1:K:377:ARG:NH2	2.09	0.51
1:K:596:SER:C	1:K:598:GLY:H	2.12	0.51
1:K:707:TYR:CD1	1:K:707:TYR:O	2.63	0.51
1:K:837:ARG:O	1:K:837:ARG:HG3	2.09	0.51
1:K:846:PHE:HB3	1:K:847:PRO:CD	2.40	0.51
1:L:631:GLU:O	1:L:635:ARG:HG2	2.11	0.51
1:L:797:ASN:HD22	1:L:797:ASN:N	2.08	0.51
1:L:797:ASN:ND2	1:L:797:ASN:N	2.56	0.51
2:N:185:TYR:CE1	2:N:194:VAL:HG23	2.45	0.51
5:R:82:MET:CG	5:R:88:SER:O	2.59	0.51
7:4:25:ILE:HG23	7:4:26:GLY:N	2.25	0.51
1:A:217:LYS:CG	1:A:285:THR:HG22	2.40	0.51
1:B:320:ARG:NH1	1:B:504:MET:HB3	2.25	0.51
1:B:636:ASN:ND2	4:M:16:SER:CB	2.72	0.51
1:B:670:ARG:NH1	2:N:92:GLU:OE2	2.44	0.51
1:C:518:ILE:C	1:C:519:ASN:HD22	2.13	0.51
1:C:922:VAL:HG23	1:C:944:PRO:CG	2.40	0.51
1:D:383:MET:O	1:D:384:TRP:CE3	2.63	0.51
1:D:472:PHE:HD1	1:D:539:ARG:NH2	2.03	0.51
1:D:827:GLY:O	1:D:828:PHE:HD2	1.85	0.51
1:D:892:MET:CE	1:D:892:MET:CA	2.88	0.51
1:E:26:PRO:O	1:E:29:VAL:HG12	2.11	0.51
1:E:30:GLN:HA	1:E:33:ARG:HG3	1.93	0.51
1:E:119:THR:HG21	1:E:226:TYR:CE1	2.45	0.51
1:E:226:TYR:O	1:E:226:TYR:CD1	2.64	0.51
1:E:789:ASP:O	1:E:789:ASP:OD1	2.28	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:869:VAL:HG13	1:E:870:MET:N	2.24	0.51
1:F:158:GLY:O	1:F:159:VAL:C	2.49	0.51
1:F:644:ASN:HB3	1:F:925:VAL:HG12	1.92	0.51
1:F:686:LYS:HB3	1:F:686:LYS:HZ2	1.76	0.51
1:F:725:PHE:N	1:F:729:VAL:O	2.42	0.51
1:G:85:THR:HG23	1:G:85:THR:O	2.10	0.51
1:G:636:ASN:OD1	1:G:637:ASP:N	2.43	0.51
1:H:358:LEU:HD11	1:H:947:ALA:CB	2.41	0.51
1:H:405:ASP:HB3	1:H:465:GLN:CB	2.39	0.51
1:H:512:SER:O	1:H:513:LEU:C	2.48	0.51
1:H:750:ASP:N	1:H:750:ASP:OD2	2.38	0.51
1:I:66:LEU:HD13	1:I:619:PHE:CE1	2.45	0.51
1:I:178:GLU:HG2	1:I:178:GLU:O	2.10	0.51
1:I:367:TYR:CD2	1:I:565:LYS:HG3	2.46	0.51
1:J:56:VAL:HG12	1:K:882:MET:CE	2.37	0.51
1:J:202:GLU:CB	1:K:313:VAL:HG21	2.34	0.51
1:J:341:ASN:OD1	1:J:341:ASN:N	2.44	0.51
1:J:391:TYR:CD1	1:J:392:ASP:O	2.63	0.51
1:J:573:LEU:CD1	1:J:634:LEU:HD13	2.38	0.51
1:K:629:THR:C	1:K:631:GLU:N	2.63	0.51
1:K:676:ARG:C	1:K:875:PHE:CB	2.73	0.51
1:K:937:GLU:CB	6:U:35:SER:O	2.58	0.51
1:L:21:SER:HA	7:9:9:LEU:HD11	1.93	0.51
1:L:71:VAL:O	1:L:71:VAL:HG13	2.09	0.51
1:L:138:LYS:HB3	1:L:147:VAL:HG13	1.92	0.51
1:L:329:ASN:O	1:L:330:PHE:HB2	2.11	0.51
1:L:489:PRO:HD3	1:L:508:VAL:CG1	2.39	0.51
1:L:666:SER:HA	1:L:902:ASP:HB3	1.92	0.51
1:L:715:ASN:C	1:L:715:ASN:ND2	2.63	0.51
2:N:189:GLY:C	2:N:194:VAL:CG2	2.78	0.51
2:N:420:ALA:HA	2:N:465:SER:HA	1.93	0.51
5:S:54:VAL:O	5:S:55:GLY:C	2.47	0.51
7:4:19:MET:HB2	7:4:22:TRP:NE1	2.26	0.51
1:A:187:ILE:CG2	1:A:190:ASP:OD1	2.59	0.51
1:A:263:VAL:HA	1:C:423:TYR:CD2	2.46	0.51
1:A:494:LEU:HD13	1:A:503:TYR:CE1	2.45	0.51
1:A:521:GLY:HA3	1:C:115:PRO:HB2	1.91	0.51
1:B:219:ASP:OD1	1:B:219:ASP:C	2.45	0.51
1:B:246:ASN:ND2	1:B:249:GLU:O	2.29	0.51
1:C:218:LYS:HG3	1:C:219:ASP:N	2.25	0.51
1:C:308:SER:HB2	1:C:309:GLU:OE2	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:463:ASN:O	1:C:467:ASN:HB2	2.11	0.51
1:D:192:THR:HG21	1:D:284:TYR:CE2	2.45	0.51
1:D:456:ASN:CB	1:F:837:ARG:HD2	2.38	0.51
1:D:575:LEU:HB3	1:D:635:ARG:NH2	2.25	0.51
1:D:589:VAL:HG21	1:D:606:ALA:HA	1.92	0.51
1:D:860:THR:HG21	1:F:557:PRO:HD2	1.93	0.51
1:D:917:TYR:C	1:D:918:LEU:O	2.49	0.51
1:E:55:ASP:O	1:E:57:THR:N	2.44	0.51
1:E:204:TRP:HZ3	1:F:313:VAL:HG12	1.75	0.51
1:E:235:GLU:HG3	1:F:815:LYS:HD2	1.93	0.51
1:E:270:ALA:H	1:E:273:SER:HB2	1.76	0.51
1:E:455:GLY:C	1:F:161:ALA:CB	2.79	0.51
1:F:300:LYS:HB2	1:F:300:LYS:NZ	2.26	0.51
1:F:452:ILE:C	1:F:454:LYS:N	2.61	0.51
1:G:58:THR:C	1:G:59:ASP:OD1	2.49	0.51
1:G:96:MET:O	1:G:99:THR:OG1	2.27	0.51
1:G:263:VAL:CG2	1:I:423:TYR:CE2	2.83	0.51
1:G:399:GLU:HB3	1:G:401:HIS:CE1	2.45	0.51
1:G:804:GLN:HE22	1:I:556:VAL:CG1	2.24	0.51
1:H:398:ILE:O	1:H:398:ILE:HD12	2.10	0.51
1:H:566:PHE:CG	1:H:567:PHE:N	2.79	0.51
1:H:818:THR:C	1:H:820:PRO:CD	2.76	0.51
1:I:626:THR:O	1:I:629:THR:HG22	2.10	0.51
1:I:647:LEU:O	1:I:647:LEU:CG	2.58	0.51
1:J:309:GLU:O	1:J:312:LEU:HD23	2.11	0.51
1:J:328:ASP:N	1:J:546:ARG:HE	2.09	0.51
1:J:527:ASP:N	1:J:528:PRO:HD2	2.25	0.51
1:J:697:PRO:O	5:P:34:SER:CB	2.59	0.51
1:J:746:LYS:HG3	1:J:760:ASN:HD21	1.76	0.51
1:K:168:THR:O	1:K:170:GLN:N	2.43	0.51
1:L:419:THR:CG2	1:L:451:GLN:CB	2.81	0.51
1:L:526:LEU:CD1	1:L:528:PRO:HD2	2.41	0.51
4:M:78:ALA:HA	4:M:81:GLU:CG	2.41	0.51
4:M:353:MET:O	4:M:357:ASN:ND2	2.42	0.51
5:Q:76:ARG:HH12	5:S:76:ARG:HH12	1.57	0.51
5:R:49:MET:CE	5:R:50:THR:N	2.74	0.51
1:A:10:TRP:CZ2	1:B:673:ALA:HB1	2.46	0.51
1:A:161:ALA:O	1:A:199:VAL:N	2.44	0.51
1:A:167:ILE:HG12	1:A:172:LEU:HG	1.92	0.51
1:A:391:TYR:CE1	1:A:396:ARG:CG	2.94	0.51
1:A:488:THR:HG22	1:A:489:PRO:O	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:548:MET:SD	1:B:401:HIS:HE1	2.33	0.51
1:A:656:ILE:HG22	1:A:657:PRO:O	2.10	0.51
1:A:828:PHE:CD2	1:B:412:PHE:CD1	2.98	0.51
1:B:192:THR:HB	1:B:284:TYR:CD1	2.45	0.51
1:B:362:ASN:O	1:B:362:ASN:OD1	2.29	0.51
1:C:364:GLU:CB	1:C:708:LEU:HD12	2.41	0.51
1:C:422:THR:HG22	1:C:451:GLN:HG3	1.93	0.51
1:C:642:SER:HB3	1:C:927:ARG:CB	2.38	0.51
1:C:931:PRO:HB2	1:C:932:HIS:ND1	2.25	0.51
1:D:567:PHE:CB	1:D:645:ASP:HB3	2.41	0.51
1:D:633:MET:O	1:D:639:HIS:CE1	2.63	0.51
1:E:327:ARG:NH2	1:E:705:ILE:CD1	2.74	0.51
1:E:327:ARG:NH2	1:E:705:ILE:HD11	2.25	0.51
1:E:388:VAL:HG21	1:E:868:ARG:NH2	2.24	0.51
1:E:875:PHE:O	1:E:875:PHE:CG	2.64	0.51
1:E:878:ASN:HD21	1:E:880:MET:HB2	1.76	0.51
1:F:908:ASP:CB	1:F:909:PRO:HD2	2.41	0.51
1:G:540:ASN:ND2	1:G:543:LEU:H	2.09	0.51
1:G:662:ASN:HD21	1:G:904:THR:HG23	1.76	0.51
1:H:747:ARG:HD3	1:H:762:THR:HG22	1.92	0.51
1:I:64:LEU:HD11	1:I:621:PRO:CG	2.37	0.51
1:I:103:ILE:HG12	1:I:613:VAL:HG22	1.92	0.51
1:I:246:ASN:HD22	1:I:251:PRO:CA	2.24	0.51
1:I:406:GLU:N	1:I:406:GLU:OE2	2.43	0.51
1:I:665:ILE:HG12	1:I:903:MET:O	2.11	0.51
1:J:68:PHE:N	1:J:68:PHE:CD1	2.63	0.51
1:J:96:MET:HE1	1:J:574:LEU:CD1	2.40	0.51
1:J:159:VAL:CG1	1:L:453:CYS:SG	2.97	0.51
1:J:417:THR:HG21	1:J:453:CYS:SG	2.51	0.51
1:J:485:TYR:OH	1:J:528:PRO:CB	2.59	0.51
1:J:503:TYR:C	1:J:505:ASN:H	2.14	0.51
1:J:809:ILE:O	1:J:809:ILE:CG2	2.59	0.51
1:K:204:TRP:HE1	1:K:415:ASN:HB3	1.72	0.51
1:K:416:GLY:O	1:K:457:VAL:CG1	2.59	0.51
1:K:524:TRP:HZ3	1:K:802:SER:HA	1.76	0.51
1:K:527:ASP:O	1:K:528:PRO:C	2.48	0.51
1:K:662:ASN:OD1	1:K:662:ASN:C	2.48	0.51
1:L:49:THR:HA	7:8:20:GLY:O	2.10	0.51
1:L:112:SER:HB2	1:L:501:TYR:HB2	1.91	0.51
1:L:213:GLY:O	1:L:283:LEU:HD23	2.11	0.51
1:L:244:PRO:O	1:L:245:VAL:C	2.50	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:693:SER:HB2	5:S:81:TYR:CZ	2.46	0.51
2:N:42:ILE:HD12	2:N:54:THR:OG1	2.11	0.51
4:M:181:SER:O	4:M:182:GLY:O	2.29	0.51
6:U:197:TYR:CE1	6:U:209:PRO:HG3	2.45	0.51
6:V:12:SER:O	6:V:12:SER:OG	2.29	0.51
6:V:27:TYR:CD2	6:V:27:TYR:N	2.67	0.51
7:9:16:ARG:HH11	7:9:21:THR:HG21	1.76	0.51
1:A:236:LYS:HG2	1:A:236:LYS:O	2.11	0.51
1:A:498:THR:HG22	1:A:498:THR:O	2.10	0.51
1:A:532:VAL:O	1:A:533:ASN:C	2.49	0.51
1:A:665:ILE:CG2	1:A:666:SER:N	2.74	0.51
1:B:13:MET:CG	1:C:925:VAL:HG21	2.41	0.51
1:B:244:PRO:HD2	1:B:253:ASP:O	2.11	0.51
1:B:831:TYR:CD2	1:B:832:LEU:CD1	2.93	0.51
1:C:121:TYR:CB	1:C:227:GLY:HA2	2.35	0.51
1:D:13:MET:HE2	1:E:941:LEU:HB2	1.93	0.51
1:D:99:THR:HA	1:D:616:TYR:O	2.11	0.51
1:D:132:PRO:O	1:D:215:ALA:HA	2.11	0.51
1:D:152:ASP:HB3	1:F:444:ASP:C	2.31	0.51
1:D:670:ARG:HH11	1:D:670:ARG:CB	2.23	0.51
1:E:641:GLN:HE21	1:E:641:GLN:N	1.96	0.51
1:E:724:MET:O	1:E:901:LEU:HD12	2.12	0.51
1:F:109:ARG:NH2	1:F:550:LEU:HB3	2.26	0.51
1:F:135:TRP:CZ2	1:F:153:VAL:HG12	2.46	0.51
1:G:198:GLN:HE22	1:I:456:ASN:HA	1.76	0.51
1:G:387:ALA:HB3	1:G:546:ARG:HD3	1.92	0.51
1:H:29:VAL:HG13	1:H:30:GLN:N	2.25	0.51
1:H:157:PHE:O	1:H:157:PHE:CD2	2.64	0.51
1:H:239:GLN:HG3	1:H:240:ALA:H	1.76	0.51
1:I:163:GLY:HA2	1:I:210:PHE:O	2.10	0.51
1:I:425:GLY:CA	1:I:444:ASP:CB	2.86	0.51
1:I:608:VAL:HG23	1:I:609:ARG:N	2.26	0.51
1:I:758:GLN:HB3	1:I:862:LYS:NZ	2.26	0.51
1:J:43:ASN:ND2	1:J:44:LYS:HD2	2.26	0.51
1:J:64:LEU:HD11	1:J:621:PRO:HD3	1.92	0.51
1:J:114:LYS:HA	1:K:851:ILE:HD12	1.91	0.51
1:J:201:GLU:O	1:K:836:MET:CE	2.58	0.51
1:J:356:VAL:HG12	1:J:940:TYR:CE1	2.46	0.51
1:J:427:LYS:O	1:J:438:SER:HA	2.11	0.51
1:J:568:ALA:C	1:J:569:ILE:HD13	2.31	0.51
1:J:665:ILE:HD12	1:J:666:SER:N	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:191:LYS:O	1:K:191:LYS:HD2	2.10	0.51
1:K:339:THR:O	1:K:339:THR:HG23	2.11	0.51
1:K:395:VAL:HG21	1:K:476:ASN:HB3	1.93	0.51
1:L:429:THR:OG1	1:L:439:GLU:OE2	2.28	0.51
1:L:719:LYS:C	1:L:745:ILE:HG22	2.30	0.51
1:L:747:ARG:CB	1:L:762:THR:HG22	2.41	0.51
1:L:774:TYR:HB3	1:L:788:LYS:HZ3	1.74	0.51
2:N:83:VAL:CG1	2:N:83:VAL:O	2.59	0.51
2:N:367:VAL:HG12	2:N:367:VAL:O	2.11	0.51
2:N:419:ARG:O	2:N:419:ARG:HG3	2.11	0.51
4:M:356:ALA:HB1	4:M:363:LYS:HZ2	1.76	0.51
5:R:55:GLY:O	5:R:56:ASN:C	2.49	0.51
5:S:50:THR:HG23	5:S:53:THR:CG2	2.41	0.51
7:6:24:GLU:OE1	7:6:27:THR:OG1	2.29	0.51
1:A:239:GLN:HG3	1:B:845:ASN:HB3	1.92	0.50
1:B:323:TYR:O	1:B:596:SER:HB2	2.10	0.50
1:B:616:TYR:N	1:B:616:TYR:HD1	2.09	0.50
1:B:927:ARG:HB2	1:B:939:VAL:HG12	1.93	0.50
1:C:53:THR:O	1:C:53:THR:CG2	2.60	0.50
1:C:731:TRP:HB3	1:C:732:PRO:HD2	1.81	0.50
1:D:136:GLU:HB2	1:D:218:LYS:HE3	1.93	0.50
1:D:136:GLU:HB3	1:D:218:LYS:HE3	1.93	0.50
1:D:263:VAL:O	1:D:265:GLY:N	2.44	0.50
1:D:774:TYR:HD1	1:D:788:LYS:HG3	1.76	0.50
1:E:66:LEU:HD12	1:E:619:PHE:CZ	2.46	0.50
1:E:376:ASP:CG	1:E:377:ARG:H	2.14	0.50
1:F:429:THR:O	1:F:430:ASN:HB3	2.10	0.50
1:F:913:PRO:CG	5:Q:7:ALA:CB	2.84	0.50
1:G:329:ASN:O	1:G:330:PHE:HB2	2.11	0.50
1:G:443:ASP:CA	1:H:150:GLU:CG	2.88	0.50
1:H:36:ASP:O	1:H:38:TYR:N	2.43	0.50
1:H:113:PHE:HB2	1:H:324:ILE:HD12	1.93	0.50
1:H:193:PHE:CE2	1:H:197:PRO:HD2	2.46	0.50
1:H:239:GLN:HG3	1:H:240:ALA:N	2.25	0.50
1:H:785:GLU:OE1	1:H:788:LYS:HE2	2.11	0.50
1:H:859:VAL:HG22	5:R:56:ASN:HB3	1.93	0.50
1:I:60:ARG:HG3	1:I:624:HIS:CD2	2.46	0.50
1:I:115:PRO:HB3	1:I:323:TYR:HE1	1.68	0.50
1:I:444:ASP:OD1	1:I:450:ASN:ND2	2.40	0.50
1:I:746:LYS:O	1:I:748:SER:N	2.44	0.50
1:J:260:TYR:HB2	1:L:426:VAL:CG2	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:427:LYS:HD2	1:J:441:GLU:HB3	1.93	0.50
1:J:537:HIS:C	1:J:539:ARG:H	2.08	0.50
1:J:818:THR:HB	1:J:820:PRO:HD2	1.93	0.50
1:J:839:GLY:CA	1:L:198:GLN:OE1	2.59	0.50
1:K:327:ARG:HH11	1:K:327:ARG:CG	2.20	0.50
1:K:364:GLU:HB3	1:K:708:LEU:O	2.10	0.50
1:K:440:TRP:CE2	1:L:276:GLU:OE2	2.63	0.50
1:K:524:TRP:HA	1:K:524:TRP:CE3	2.46	0.50
1:K:713:TYR:CE1	1:K:714:LEU:HG	2.46	0.50
1:L:51:ALA:HB1	1:L:52:PRO:CD	2.38	0.50
1:L:135:TRP:CZ2	1:L:153:VAL:O	2.64	0.50
1:L:166:ASN:HA	1:L:210:PHE:CZ	2.45	0.50
1:L:187:ILE:O	1:L:189:ALA:N	2.42	0.50
1:L:397:ILE:HG22	1:L:397:ILE:O	2.11	0.50
1:L:409:ASN:HD22	1:L:464:LEU:HG	1.74	0.50
1:L:811:TYR:CD1	1:L:857:PRO:HD2	2.46	0.50
1:L:865:LEU:O	1:L:865:LEU:HD23	2.11	0.50
4:M:85:ILE:HG21	4:M:93:VAL:HG21	1.92	0.50
4:M:206:LEU:CD2	4:M:252:LEU:HD13	2.37	0.50
4:M:210:TRP:CE3	4:M:252:LEU:HD12	2.46	0.50
5:Q:35:THR:N	5:Q:43:PRO:HD2	2.25	0.50
6:V:47:VAL:O	6:V:48:ARG:C	2.50	0.50
7:6:19:MET:HA	7:6:19:MET:CE	2.42	0.50
1:A:320:ARG:H	1:A:505:ASN:HD21	1.59	0.50
1:A:481:LEU:HB3	1:A:482:PRO:HD2	1.93	0.50
1:B:22:GLU:CG	6:U:177:GLU:HG2	2.37	0.50
1:B:134:GLN:HG3	1:B:154:THR:O	1.85	0.50
1:B:401:HIS:C	1:B:402:GLY:O	2.48	0.50
1:B:425:GLY:HA3	1:B:444:ASP:HB2	1.93	0.50
1:B:620:PHE:HE1	1:C:880:MET:HE1	1.67	0.50
1:B:732:PRO:HG3	1:B:743:PHE:HE1	1.75	0.50
1:C:70:PRO:CG	1:C:73:ARG:NE	2.59	0.50
1:C:531:ASN:HB2	1:C:714:LEU:HD22	1.93	0.50
1:C:637:ASP:CB	1:C:929:HIS:HE1	2.21	0.50
1:C:730:SER:HB3	1:C:733:GLY:CA	2.41	0.50
1:C:910:MET:CE	1:C:914:THR:CB	2.89	0.50
1:D:70:PRO:HG3	1:D:73:ARG:NH1	2.26	0.50
1:D:88:VAL:CG1	1:D:576:PRO:HA	2.39	0.50
1:F:242:PHE:O	1:F:243:LYS:C	2.49	0.50
1:F:387:ALA:O	1:F:388:VAL:HG23	2.11	0.50
1:F:392:ASP:CG	1:F:393:PRO:HD2	2.30	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:408:PRO:HB2	1:F:410:TYR:CE1	2.46	0.50
1:F:698:TYR:O	1:F:700:VAL:HG13	2.11	0.50
1:F:760:ASN:CG	5:P:54:VAL:CG1	2.74	0.50
1:F:840:GLN:HG2	1:F:841:PRO:N	2.23	0.50
1:G:24:LEU:HA	1:H:639:HIS:HB3	1.94	0.50
1:G:313:VAL:HG23	1:G:313:VAL:O	2.12	0.50
1:G:457:VAL:CG2	1:I:841:PRO:HD3	2.41	0.50
1:G:488:THR:HB	1:G:507:ARG:HE	1.76	0.50
1:G:759:CYS:CB	1:G:800:PRO:HB3	2.41	0.50
1:G:823:HIS:HB3	1:I:196:GLU:OE1	2.10	0.50
1:H:135:TRP:CZ2	1:H:156:THR:HG21	2.46	0.50
1:H:155:LYS:HZ1	1:H:285:THR:CB	1.92	0.50
1:H:907:VAL:HG12	1:H:908:ASP:N	2.22	0.50
1:I:247:GLU:O	1:I:249:GLU:N	2.44	0.50
1:I:268:PRO:CB	1:I:269:PRO:CD	2.89	0.50
1:I:361:ARG:NH1	1:I:567:PHE:CZ	2.62	0.50
1:J:635:ARG:CD	1:J:931:PRO:O	2.56	0.50
1:J:644:ASN:O	1:J:644:ASN:OD1	2.29	0.50
1:J:796:ARG:NH1	1:J:796:ARG:CG	2.73	0.50
1:K:60:ARG:HD2	1:K:624:HIS:ND1	2.26	0.50
1:K:116:TYR:HE2	1:L:851:ILE:CD1	2.24	0.50
1:K:196:GLU:HG3	1:L:831:TYR:CE1	2.44	0.50
1:K:594:GLN:HA	1:K:702:SER:O	2.11	0.50
1:L:62:GLN:O	1:L:62:GLN:HG3	2.11	0.50
1:L:191:LYS:O	1:L:191:LYS:HD2	2.11	0.50
1:L:193:PHE:HE2	1:L:284:TYR:CE1	2.21	0.50
1:L:242:PHE:O	1:L:243:LYS:HD3	2.12	0.50
1:L:281:ILE:O	1:L:281:ILE:HG13	2.11	0.50
3:O:18:GLY:O	3:O:19:TYR:CE1	2.62	0.50
4:M:210:TRP:CE3	4:M:210:TRP:HA	2.46	0.50
5:R:9:GLU:CD	5:R:13:PHE:HB3	2.32	0.50
1:A:575:LEU:HB2	1:A:930:GLN:HE21	1.76	0.50
1:B:23:TYR:C	1:B:23:TYR:CD1	2.85	0.50
1:B:192:THR:O	1:B:193:PHE:C	2.50	0.50
1:B:195:PRO:O	1:B:198:GLN:HG2	2.11	0.50
1:B:345:LEU:HB2	1:B:355:VAL:CG2	2.41	0.50
1:B:530:ASP:OD1	1:B:531:ASN:N	2.44	0.50
1:B:576:PRO:HD2	1:B:635:ARG:NH2	2.23	0.50
1:C:21:SER:HB2	7:2:11:PRO:HD3	1.93	0.50
1:C:242:PHE:O	1:C:243:LYS:C	2.49	0.50
1:C:267:SER:CB	1:C:268:PRO:CD	2.89	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:765:TRP:O	1:C:768:VAL:HG12	2.11	0.50
1:D:676:ARG:HH11	1:D:676:ARG:HG2	1.76	0.50
1:E:269:PRO:HD3	1:E:275:GLU:C	2.32	0.50
1:E:540:ASN:OD1	1:E:543:LEU:HB3	2.11	0.50
1:E:749:VAL:O	1:E:750:ASP:OD1	2.30	0.50
1:E:771:LEU:HD21	1:E:778:TYR:CZ	2.47	0.50
1:F:244:PRO:O	1:F:245:VAL:C	2.50	0.50
1:F:449:GLN:O	1:F:449:GLN:HG3	2.10	0.50
1:F:503:TYR:O	1:F:505:ASN:N	2.44	0.50
1:G:52:PRO:HG3	7:6:23:ASN:C	2.24	0.50
1:G:96:MET:O	1:G:98:SER:N	2.44	0.50
1:G:331:VAL:O	1:G:331:VAL:HG23	2.11	0.50
1:G:636:ASN:O	1:G:639:HIS:O	2.29	0.50
1:G:696:ASP:C	1:G:698:TYR:H	2.13	0.50
1:H:130:PRO:HB2	1:H:312:LEU:HD12	1.94	0.50
1:H:723:ILE:HG21	1:H:731:TRP:HB3	1.93	0.50
1:I:88:VAL:HG23	1:I:577:GLY:H	1.75	0.50
1:I:410:TYR:CB	1:I:412:PHE:CZ	2.94	0.50
1:I:653:LEU:HD21	1:I:917:TYR:CD2	2.46	0.50
1:J:194:GLN:OE1	1:K:821:PHE:CB	2.56	0.50
1:J:361:ARG:O	1:J:361:ARG:HG3	2.12	0.50
1:J:433:ASP:OD1	1:J:433:ASP:C	2.49	0.50
1:J:644:ASN:HB3	1:J:925:VAL:HG12	1.92	0.50
1:J:675:PHE:CD2	1:J:675:PHE:C	2.85	0.50
1:K:410:TYR:HA	1:K:461:GLU:HB3	1.93	0.50
1:K:477:VAL:CG2	1:K:477:VAL:O	2.59	0.50
1:K:602:ARG:C	1:K:604:ASP:N	2.65	0.50
1:L:392:ASP:CG	1:L:393:PRO:HD2	2.31	0.50
1:L:731:TRP:O	1:L:731:TRP:CD1	2.62	0.50
2:N:133:ARG:O	2:N:239:CYS:HB2	2.12	0.50
2:N:488:ARG:HH11	2:N:488:ARG:CB	2.14	0.50
4:M:147:THR:HG22	4:M:147:THR:O	2.12	0.50
5:S:12:LEU:O	5:S:15:PRO:CG	2.59	0.50
6:U:14:GLN:HE21	6:U:14:GLN:CA	2.24	0.50
7:9:18:PHE:O	7:9:19:MET:C	2.49	0.50
1:A:139:GLU:OE1	1:C:449:GLN:HG3	2.11	0.50
1:A:230:ALA:HB1	1:A:288:VAL:HG21	1.93	0.50
1:A:313:VAL:CG2	1:C:204:TRP:CE3	2.60	0.50
1:A:367:TYR:CB	1:A:565:LYS:HD2	2.40	0.50
1:A:508:VAL:CG2	1:A:834:PRO:CD	2.89	0.50
1:A:560:ILE:HG22	1:A:561:GLN:C	2.32	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:690:SER:O	1:A:692:GLY:N	2.44	0.50
1:A:853:GLN:HB3	1:C:111:PRO:CB	2.40	0.50
1:B:510:ALA:CB	1:B:832:LEU:O	2.59	0.50
1:B:652:MET:HE1	2:N:92:GLU:OE1	2.11	0.50
1:B:676:ARG:HD3	1:B:921:GLU:CB	2.35	0.50
1:B:731:TRP:CD2	1:B:732:PRO:HD3	2.42	0.50
1:B:912:GLU:O	1:B:914:THR:CG2	2.60	0.50
1:C:629:THR:C	1:C:631:GLU:N	2.62	0.50
1:C:811:TYR:CD1	1:C:856:VAL:CG2	2.77	0.50
1:C:827:GLY:CA	1:C:839:GLY:CA	2.78	0.50
1:D:121:TYR:O	1:D:122:ASN:HB2	2.11	0.50
1:D:262:ASP:HB2	1:F:426:VAL:HG11	1.93	0.50
1:D:622:MET:CG	1:D:627:ALA:HB2	2.42	0.50
1:D:639:HIS:HB3	1:F:24:LEU:CD2	2.42	0.50
1:E:428:ILE:HG13	1:F:260:TYR:HE1	1.76	0.50
1:F:165:ILE:HG12	1:F:174:LEU:O	2.11	0.50
1:F:166:ASN:HA	1:F:210:PHE:CE1	2.45	0.50
1:F:167:ILE:HG21	1:F:282:ILE:CG2	2.41	0.50
1:F:712:PHE:O	1:F:868:ARG:N	2.34	0.50
1:F:745:ILE:CG1	1:F:765:TRP:CD2	2.94	0.50
1:F:776:ILE:HD12	1:F:776:ILE:N	2.26	0.50
1:G:20:ALA:O	1:G:24:LEU:HG	2.12	0.50
1:G:72:ASP:O	1:G:72:ASP:CG	2.46	0.50
1:G:422:THR:O	1:H:264:PRO:HD3	2.10	0.50
1:G:573:LEU:HB3	1:G:641:GLN:NE2	2.27	0.50
1:H:140:LYS:HZ3	1:H:146:GLY:HA2	1.75	0.50
1:H:165:ILE:O	1:H:210:PHE:CE1	2.64	0.50
1:H:222:MET:HE2	1:H:311:ASN:HB3	1.94	0.50
1:H:370:LEU:O	1:H:370:LEU:HG	2.11	0.50
1:H:514:VAL:O	1:H:514:VAL:CG1	2.59	0.50
1:H:600:ASP:OD1	1:H:700:VAL:HB	2.11	0.50
1:H:602:ARG:C	5:Q:35:THR:HG21	2.32	0.50
1:H:918:LEU:CD2	1:H:920:PHE:CE2	2.93	0.50
1:I:18:GLN:O	1:I:23:TYR:HD2	1.95	0.50
1:I:771:LEU:HD11	1:I:880:MET:HE1	1.93	0.50
1:J:636:ASN:ND2	1:J:638:THR:N	2.58	0.50
1:J:822:GLN:HB2	1:J:846:PHE:HB2	1.94	0.50
1:K:440:TRP:CH2	1:L:276:GLU:HB3	2.46	0.50
1:L:214:ARG:HH22	1:L:241:LYS:HE3	1.76	0.50
1:L:333:LEU:HG	1:L:592:ILE:HG21	1.93	0.50
1:L:787:TYR:O	1:L:789:ASP:N	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:209:LYS:HG3	2:N:356:LEU:HD21	1.93	0.50
2:N:394:GLN:HG3	2:N:395:ASP:N	2.27	0.50
2:N:398:THR:O	2:N:398:THR:CG2	2.56	0.50
5:Q:101:LEU:HD23	5:Q:101:LEU:C	2.32	0.50
5:R:2:ASN:OD1	5:R:2:ASN:O	2.30	0.50
6:U:5:ILE:CG2	6:U:49:SER:HA	2.41	0.50
6:V:69:LEU:H	6:V:69:LEU:HD22	1.62	0.50
1:A:210:PHE:HA	1:A:280:ASP:HB2	1.92	0.50
1:A:217:LYS:C	1:A:219:ASP:H	2.13	0.50
1:A:370:LEU:HD13	1:A:646:TYR:CD1	2.47	0.50
1:A:445:ALA:HB2	1:B:152:ASP:CB	2.38	0.50
1:A:804:GLN:HE22	1:C:551:GLY:HA3	1.75	0.50
1:A:822:GLN:CB	1:A:846:PHE:HD1	2.21	0.50
1:A:852:GLY:O	1:C:554:ARG:HD2	2.12	0.50
1:B:137:THR:HG22	1:B:153:VAL:CG1	2.41	0.50
1:B:150:GLU:HA	1:B:150:GLU:OE1	2.12	0.50
1:B:327:ARG:CZ	1:B:705:ILE:HD12	2.41	0.50
1:B:569:ILE:O	1:B:572:LEU:HB2	2.11	0.50
1:B:589:VAL:CG2	1:B:607:SER:HB3	2.41	0.50
1:C:217:LYS:CE	1:C:257:ASP:CG	2.79	0.50
1:C:217:LYS:NZ	1:C:257:ASP:CG	2.65	0.50
1:C:239:GLN:HG3	1:C:240:ALA:H	1.77	0.50
1:C:323:TYR:H	1:C:596:SER:CB	2.25	0.50
1:C:573:LEU:H	1:C:641:GLN:HE21	1.59	0.50
1:C:673:ALA:O	1:C:889:GLY:O	2.29	0.50
1:C:705:ILE:HG22	1:C:708:LEU:N	2.19	0.50
1:C:933:ARG:HH22	1:E:349:ALA:CB	2.24	0.50
1:D:6:MET:HE1	1:D:10:TRP:HE3	1.76	0.50
1:D:134:GLN:HE21	1:D:154:THR:HG21	1.75	0.50
1:D:135:TRP:HA	1:D:218:LYS:HB2	1.93	0.50
1:D:204:TRP:CE2	1:D:415:ASN:HB2	2.43	0.50
1:D:406:GLU:OE1	1:F:474:TYR:HE2	1.95	0.50
1:D:417:THR:OG1	1:D:457:VAL:HA	2.11	0.50
1:D:515:ASP:O	1:D:517:TYR:N	2.44	0.50
1:D:532:VAL:O	1:D:533:ASN:C	2.48	0.50
1:D:602:ARG:HG2	1:D:602:ARG:O	2.11	0.50
1:D:723:ILE:O	1:D:730:SER:CA	2.59	0.50
1:D:814:TYR:CG	1:D:815:LYS:N	2.79	0.50
1:D:833:ALA:HB1	1:D:834:PRO:HD2	1.93	0.50
1:D:837:ARG:HE	1:D:837:ARG:C	2.15	0.50
1:D:943:THR:CB	1:D:944:PRO:HD3	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:75:ALA:CB	1:E:80:TYR:HD1	2.24	0.50
1:E:239:GLN:HG3	1:E:240:ALA:H	1.76	0.50
1:F:174:LEU:HD11	1:F:191:LYS:HE3	1.93	0.50
1:F:884:ALA:O	1:F:923:PHE:HZ	1.93	0.50
1:G:161:ALA:HB1	1:G:198:GLN:CD	2.23	0.50
1:G:730:SER:OG	1:G:732:PRO:CD	2.54	0.50
1:H:118:GLY:HA2	1:H:318:PRO:CB	2.42	0.50
1:H:135:TRP:H	1:H:154:THR:CG2	2.17	0.50
1:H:298:VAL:HG21	1:H:317:MET:HG2	1.94	0.50
1:H:679:SER:O	1:H:919:LEU:HB3	2.11	0.50
1:H:683:LEU:HD22	1:H:706:PRO:HB2	1.93	0.50
1:H:717:THR:HB	1:H:908:ASP:CB	2.42	0.50
1:H:912:GLU:O	1:H:914:THR:N	2.38	0.50
1:I:115:PRO:O	1:I:323:TYR:OH	2.21	0.50
1:I:268:PRO:CB	1:I:269:PRO:HD2	2.41	0.50
1:I:361:ARG:HH22	1:I:940:TYR:HB3	1.76	0.50
1:I:422:THR:CG2	1:I:449:GLN:C	2.80	0.50
1:I:422:THR:HA	1:I:450:ASN:C	2.31	0.50
1:J:475:SER:OG	1:K:404:GLU:HB2	2.11	0.50
1:J:677:GLY:C	1:J:921:GLU:CG	2.80	0.50
1:J:801:MET:HE3	1:J:865:LEU:HB3	1.92	0.50
1:K:108:ASP:HA	1:K:554:ARG:O	2.12	0.50
1:K:230:ALA:CB	1:K:289:ASN:O	2.60	0.50
1:K:260:TYR:N	1:K:260:TYR:CD1	2.79	0.50
1:K:391:TYR:C	1:K:391:TYR:HD1	2.15	0.50
1:K:397:ILE:HD13	1:K:799:GLN:HE21	1.76	0.50
1:K:622:MET:CG	1:K:627:ALA:HB2	2.41	0.50
1:K:759:CYS:O	1:K:761:MET:N	2.45	0.50
1:L:55:ASP:HB3	1:L:626:THR:OG1	2.11	0.50
1:L:494:LEU:HB3	1:L:495:PRO:CD	2.40	0.50
1:L:720:LYS:CD	1:L:742:GLU:OE1	2.58	0.50
2:N:163:LEU:HD21	2:N:177:MET:CB	2.38	0.50
4:M:194:LEU:HD23	6:U:208:TYR:CB	2.41	0.50
5:P:9:GLU:HA	5:Q:28:ARG:HA	1.93	0.50
5:P:36:VAL:CG2	5:P:43:PRO:HB3	2.42	0.50
5:Q:16:TYR:CZ	5:R:18:THR:CA	2.92	0.50
5:R:12:LEU:CG	5:R:17:LEU:HD21	2.42	0.50
5:R:75:THR:HG23	5:R:76:ARG:N	2.26	0.50
1:A:93:VAL:O	1:A:93:VAL:HG13	2.12	0.50
1:A:170:GLN:CG	1:A:185:LYS:HG3	2.42	0.50
1:A:290:LEU:HD13	1:B:843:PRO:HB3	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:313:VAL:HG13	1:C:203:ASN:ND2	2.25	0.50
1:A:517:TYR:O	1:A:520:ILE:HG23	2.11	0.50
1:A:567:PHE:CG	1:A:645:ASP:HB3	2.46	0.50
1:A:735:ASP:HA	1:A:740:PRO:CG	2.42	0.50
1:B:35:THR:HG22	7:1:24:GLU:OE1	2.12	0.50
1:B:100:TYR:CD1	1:B:100:TYR:O	2.65	0.50
1:B:339:THR:CG2	1:B:342:MET:HE1	2.36	0.50
1:B:523:ARG:HH11	1:B:523:ARG:CB	2.25	0.50
1:C:198:GLN:CG	1:C:199:VAL:N	2.55	0.50
1:C:246:ASN:HD21	1:C:252:LYS:HG3	1.71	0.50
1:C:309:GLU:CD	1:C:309:GLU:H	2.15	0.50
1:C:315:GLN:OE1	1:C:835:THR:HB	2.11	0.50
1:C:730:SER:O	1:C:731:TRP:C	2.49	0.50
1:D:204:TRP:HZ3	1:E:313:VAL:HA	1.72	0.50
1:D:595:SER:HB3	1:D:601:LEU:HD11	1.94	0.50
1:D:839:GLY:CA	1:F:198:GLN:CG	2.89	0.50
1:E:29:VAL:HG13	1:E:30:GLN:N	2.26	0.50
1:E:543:LEU:CD2	1:E:594:GLN:NE2	2.72	0.50
1:E:811:TYR:CD1	1:E:857:PRO:HD2	2.46	0.50
1:F:20:ALA:HB1	7:4:9:LEU:HD13	1.93	0.50
1:F:217:LYS:HZ1	1:F:285:THR:HG21	1.76	0.50
1:F:339:THR:HG23	1:F:342:MET:HE3	1.93	0.50
1:G:313:VAL:O	1:G:313:VAL:CG2	2.60	0.50
1:G:394:ASP:OD1	1:G:395:VAL:N	2.45	0.50
1:G:519:ASN:O	1:G:520:ILE:C	2.50	0.50
1:G:525:SER:HB2	1:G:863:LYS:CE	2.41	0.50
1:G:527:ASP:CG	1:G:863:LYS:HZ2	2.12	0.50
1:G:540:ASN:ND2	1:G:543:LEU:HB3	2.22	0.50
1:G:652:MET:SD	1:G:652:MET:N	2.85	0.50
1:H:135:TRP:HZ2	1:H:156:THR:CG2	2.24	0.50
1:H:135:TRP:NE1	1:H:156:THR:CG2	2.75	0.50
1:H:177:ASP:O	1:H:181:GLU:HA	2.12	0.50
1:H:258:PHE:CD2	1:H:282:ILE:HD11	2.42	0.50
1:H:474:TYR:CZ	1:H:834:PRO:HG3	2.46	0.50
1:H:711:THR:O	1:H:711:THR:HG23	2.11	0.50
1:H:717:THR:HB	1:H:908:ASP:HB2	1.94	0.50
1:I:327:ARG:NH2	1:I:705:ILE:HG23	2.26	0.50
1:I:400:ASN:HB3	1:I:469:TRP:CZ2	2.47	0.50
1:I:443:ASP:CG	1:I:443:ASP:O	2.49	0.50
1:I:501:TYR:O	1:I:503:TYR:N	2.45	0.50
1:J:31:PHE:HZ	1:K:630:LEU:HD22	1.72	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:875:PHE:CE2	1:J:888:LEU:CB	2.95	0.50
1:K:18:GLN:NE2	1:K:22:GLU:HG3	2.26	0.50
1:K:46:ARG:NE	1:L:644:ASN:ND2	2.45	0.50
1:K:167:ILE:HG22	1:K:168:THR:N	2.27	0.50
1:K:372:ASP:HB2	1:K:377:ARG:HD2	1.92	0.50
1:K:662:ASN:HB2	1:K:906:GLU:CB	2.42	0.50
1:K:808:GLU:C	1:K:810:ASN:N	2.64	0.50
1:L:20:ALA:CA	7:9:9:LEU:HD13	2.40	0.50
1:L:527:ASP:O	1:L:529:MET:N	2.45	0.50
1:L:531:ASN:HB3	1:L:714:LEU:HD13	1.93	0.50
1:L:932:HIS:O	1:L:935:VAL:HG12	2.11	0.50
2:N:170:GLU:CD	2:N:462:THR:HB	2.32	0.50
4:M:108:ASN:C	4:M:110:GLN:N	2.65	0.50
4:M:212:VAL:N	4:M:250:SER:CB	2.74	0.50
4:M:215:PRO:CD	4:M:251:TYR:HE1	2.23	0.50
5:Q:3:GLY:HA2	5:R:1:MET:HE3	1.88	0.50
5:R:75:THR:HG23	5:R:76:ARG:H	1.75	0.50
7:4:16:ARG:NH1	7:4:16:ARG:HG2	2.27	0.50
7:5:5:ASN:ND2	7:5:5:ASN:H	2.05	0.50
1:A:188:TYR:HD1	1:A:256:ILE:CG1	2.19	0.50
1:A:676:ARG:HB2	1:A:921:GLU:CG	2.41	0.50
1:A:825:ASN:HD21	1:C:124:LEU:H	1.59	0.50
1:A:877:SER:OG	1:A:888:LEU:CD2	2.60	0.50
1:A:907:VAL:HG23	1:A:908:ASP:N	2.26	0.50
1:B:20:ALA:O	1:B:24:LEU:HD13	2.11	0.50
1:B:324:ILE:CG1	1:B:595:SER:CA	2.79	0.50
1:B:718:PHE:CE2	1:B:916:LEU:HD11	2.46	0.50
1:C:347:GLY:HA2	1:C:579:TYR:HD1	1.76	0.50
1:C:724:MET:N	1:C:729:VAL:CG2	2.61	0.50
1:C:749:VAL:O	1:C:749:VAL:CG1	2.60	0.50
1:D:255:ASP:C	1:D:286:GLU:HB3	2.32	0.50
1:D:328:ASP:O	1:D:329:ASN:HB2	2.11	0.50
1:D:480:TYR:CZ	1:D:538:PRO:HD3	2.47	0.50
1:D:738:LEU:HB2	1:D:754:TYR:HE2	1.77	0.50
1:E:126:PRO:CD	1:F:828:PHE:CE2	2.94	0.50
1:E:344:VAL:HB	1:E:353:ASN:ND2	2.26	0.50
1:E:397:ILE:HG22	1:E:397:ILE:O	2.11	0.50
1:E:623:ALA:O	1:E:626:THR:CG2	2.59	0.50
1:F:241:LYS:CE	1:F:286:GLU:HG3	2.41	0.50
1:F:478:ALA:HB2	1:F:514:VAL:HG11	1.94	0.50
1:G:24:LEU:O	1:G:25:SER:C	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:102:ASP:OD2	1:G:616:TYR:HE1	1.94	0.50
1:G:188:TYR:CD1	1:G:256:ILE:HD13	2.47	0.50
1:G:260:TYR:N	1:G:260:TYR:CD2	2.79	0.50
1:G:277:TYR:C	1:I:440:TRP:HZ3	2.13	0.50
1:G:310:ILE:H	1:G:310:ILE:CD1	2.22	0.50
1:G:461:GLU:OE2	1:G:461:GLU:CA	2.53	0.50
1:G:667:ILE:CG2	1:G:670:ARG:HG3	2.41	0.50
1:G:931:PRO:HB2	1:G:932:HIS:CD2	2.46	0.50
1:H:109:ARG:CG	1:H:109:ARG:HH11	2.25	0.50
1:H:731:TRP:N	1:H:732:PRO:HD2	2.26	0.50
1:H:752:GLU:OE2	1:H:754:TYR:CE1	2.65	0.50
1:I:299:TYR:HB2	1:I:315:GLN:HE21	1.77	0.50
1:I:641:GLN:HG3	1:I:643:PHE:CZ	2.45	0.50
1:J:76:THR:HG22	1:J:77:THR:N	2.27	0.50
1:J:85:THR:CG2	1:J:580:THR:HG22	2.41	0.50
1:J:150:GLU:CB	1:L:443:ASP:HB3	2.42	0.50
1:J:166:ASN:HB3	1:J:173:LEU:CD2	2.35	0.50
1:J:257:ASP:OD1	1:J:257:ASP:N	2.44	0.50
1:J:366:SER:O	1:J:368:GLN:N	2.44	0.50
1:J:567:PHE:CD1	1:J:567:PHE:C	2.85	0.50
1:K:417:THR:HA	1:K:457:VAL:HG12	1.92	0.50
1:K:670:ARG:HB3	6:U:27:TYR:CE2	2.46	0.50
1:L:193:PHE:HE1	1:L:214:ARG:HG3	1.77	0.50
1:L:629:THR:O	1:L:633:MET:HB2	2.12	0.50
1:L:720:LYS:CG	1:L:906:GLU:OE2	2.60	0.50
2:N:123:GLU:O	2:N:125:MET:N	2.45	0.50
4:M:323:VAL:HG13	4:M:344:MET:CE	2.37	0.50
7:3:9:LEU:HD22	7:3:9:LEU:C	2.31	0.50
1:A:124:LEU:CD1	1:B:470:LYS:HE2	2.41	0.50
1:A:192:THR:HG23	1:A:193:PHE:N	2.26	0.50
1:B:229:PHE:CE2	1:C:849:PRO:CD	2.95	0.50
1:B:327:ARG:O	1:B:330:PHE:N	2.45	0.50
1:B:336:TYR:CB	1:B:337:ASN:ND2	2.75	0.50
1:B:397:ILE:CD1	1:B:799:GLN:HG3	2.42	0.50
1:B:653:LEU:CG	1:B:915:LEU:CD1	2.65	0.50
1:C:108:ASP:OD2	1:C:108:ASP:O	2.30	0.50
1:C:188:TYR:HD1	1:C:256:ILE:HB	1.77	0.50
1:C:250:GLN:CG	1:C:251:PRO:CD	2.84	0.50
1:C:370:LEU:HD23	1:C:371:LEU:N	2.27	0.50
1:C:527:ASP:HA	1:C:863:LYS:NZ	2.26	0.50
1:C:648:SER:CB	1:C:922:VAL:O	2.60	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:663:VAL:O	1:C:663:VAL:HG13	2.11	0.50
1:D:154:THR:C	1:D:155:LYS:HG3	2.32	0.50
1:D:269:PRO:CA	1:D:274:GLY:O	2.58	0.50
1:D:400:ASN:HD22	1:D:520:ILE:CA	2.21	0.50
1:D:445:ALA:O	1:E:139:GLU:OE2	2.30	0.50
1:E:111:PRO:CB	1:F:853:GLN:OE1	2.50	0.50
1:E:132:PRO:HB2	1:E:215:ALA:HA	1.94	0.50
1:E:380:TYR:CE1	1:E:387:ALA:HB1	2.47	0.50
1:E:851:ILE:H	1:E:851:ILE:HD13	1.76	0.50
1:F:94:LEU:HD13	1:F:617:ALA:HB1	1.91	0.50
1:F:566:PHE:O	1:F:570:LYS:CB	2.52	0.50
1:F:822:GLN:HB2	1:F:846:PHE:HB2	1.93	0.50
1:G:165:ILE:HB	1:G:173:LEU:HG	1.94	0.50
1:G:204:TRP:NE1	1:G:415:ASN:CB	2.73	0.50
1:G:344:VAL:HG12	1:G:582:GLU:HG2	1.94	0.50
1:G:382:SER:OG	1:H:800:PRO:HG2	2.12	0.50
1:G:474:TYR:HA	1:G:478:ALA:HB2	1.94	0.50
1:G:650:ALA:CB	1:G:942:ARG:HH21	2.25	0.50
1:H:500:THR:C	1:H:502:GLU:N	2.65	0.50
1:I:429:THR:CG2	1:I:430:ASN:H	2.18	0.50
1:I:649:ALA:CB	1:I:919:LEU:HD23	2.42	0.50
1:I:678:TRP:CD1	1:I:903:MET:SD	3.05	0.50
1:I:760:ASN:HB3	5:S:54:VAL:HG11	0.72	0.50
1:J:174:LEU:HD11	1:J:191:LYS:HE2	1.94	0.50
1:J:194:GLN:HB2	1:J:197:PRO:CG	2.41	0.50
1:J:258:PHE:CD1	1:J:282:ILE:HD11	2.47	0.50
1:J:623:ALA:O	1:J:626:THR:HG22	2.12	0.50
1:K:60:ARG:NH1	1:K:624:HIS:ND1	2.60	0.50
1:K:170:GLN:HE21	1:K:185:LYS:CD	2.24	0.50
1:K:360:ASP:OD1	1:K:360:ASP:C	2.46	0.50
1:L:31:PHE:HD2	1:L:31:PHE:C	2.15	0.50
1:L:392:ASP:HB3	1:L:395:VAL:CG2	2.35	0.50
1:L:468:LEU:HD23	1:L:468:LEU:C	2.32	0.50
1:L:787:TYR:CD1	1:L:787:TYR:C	2.84	0.50
2:N:111:LYS:O	2:N:111:LYS:HG3	2.11	0.50
2:N:198:ASP:HA	2:N:236:LEU:HD11	1.94	0.50
2:N:358:TYR:CE2	2:N:373:LEU:HD23	2.46	0.50
4:M:319:ILE:HD13	4:M:359:PRO:HB3	1.94	0.50
5:R:27:VAL:C	5:R:28:ARG:HG3	2.32	0.50
6:V:51:ARG:HG2	6:V:51:ARG:O	2.11	0.50
7:3:16:ARG:NH1	7:3:21:THR:HG23	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:741:ASN:CG	1:E:359:GLN:OE1	2.47	0.50
1:B:194:GLN:HG2	1:B:196:GLU:HG2	1.94	0.50
1:B:769:GLN:HG3	1:B:794:PHE:CE1	2.32	0.50
1:B:787:TYR:C	1:B:787:TYR:CD1	2.86	0.50
1:C:58:THR:HG21	1:C:62:GLN:HE21	1.77	0.50
1:C:575:LEU:HD21	1:C:634:LEU:HD23	1.94	0.50
1:C:782:HIS:O	1:C:783:VAL:C	2.49	0.50
1:D:397:ILE:HG22	1:D:397:ILE:O	2.12	0.50
1:D:411:CYS:HB3	1:F:462:ILE:CG1	2.42	0.50
1:D:452:ILE:HG23	1:E:158:GLY:O	2.12	0.50
1:D:456:ASN:ND2	1:F:838:GLN:CA	2.63	0.50
1:E:473:LEU:O	1:E:478:ALA:HB2	2.12	0.50
1:E:689:PRO:HB3	1:E:699:PHE:CD1	2.46	0.50
1:E:837:ARG:HH12	1:F:459:ALA:N	2.09	0.50
1:F:523:ARG:HG2	1:F:523:ARG:HH11	1.76	0.50
1:F:527:ASP:O	1:F:528:PRO:C	2.50	0.50
1:F:808:GLU:CB	1:F:814:TYR:CE2	2.94	0.50
1:G:79:LEU:CD2	1:G:341:ASN:ND2	2.75	0.50
1:G:409:ASN:ND2	1:G:464:LEU:CB	2.69	0.50
1:H:151:LYS:C	1:H:154:THR:HG23	2.32	0.50
1:H:162:THR:HG22	1:H:163:GLY:O	2.11	0.50
1:H:199:VAL:O	1:H:199:VAL:CG1	2.58	0.50
1:H:225:CYS:O	1:H:225:CYS:SG	2.70	0.50
1:H:358:LEU:HD21	1:H:947:ALA:HB1	1.93	0.50
1:H:766:PHE:C	1:H:768:VAL:N	2.62	0.50
1:H:775:ASN:HD22	1:H:880:MET:HE3	1.71	0.50
1:I:115:PRO:O	1:I:323:TYR:CE1	2.65	0.50
1:I:199:VAL:HG21	1:I:208:GLU:HG3	1.94	0.50
1:J:46:ARG:HH22	1:K:923:PHE:HE1	1.60	0.50
1:J:109:ARG:HG3	1:J:113:PHE:CD2	2.47	0.50
1:J:165:ILE:HB	1:J:174:LEU:O	2.11	0.50
1:J:358:LEU:CD1	1:J:942:ARG:HD2	2.42	0.50
1:J:372:ASP:OD1	1:J:372:ASP:C	2.50	0.50
1:K:440:TRP:HH2	1:L:276:GLU:HB3	1.76	0.50
1:K:706:PRO:CA	1:K:711:THR:HG23	2.42	0.50
1:L:135:TRP:CZ3	1:L:156:THR:HG21	2.47	0.50
1:L:141:GLN:NE2	1:L:148:GLN:HG3	2.27	0.50
1:L:173:LEU:HD23	1:L:173:LEU:C	2.33	0.50
1:L:476:ASN:HB3	1:L:537:HIS:CE1	2.46	0.50
1:L:478:ALA:CB	1:L:514:VAL:CG1	2.90	0.50
1:L:651:ASN:ND2	1:L:917:TYR:CZ	2.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:124:TYR:CE2	2:N:499:CYS:SG	3.03	0.50
5:P:5:GLY:C	5:P:7:ALA:N	2.65	0.50
5:P:122:VAL:HG12	5:P:126:ARG:CZ	2.42	0.50
6:V:19:LEU:HD23	6:V:72:ARG:CZ	2.40	0.50
7:1:17:PRO:HB2	7:1:18:PHE:CE1	2.46	0.50
1:A:84:PHE:HE1	1:A:101:PHE:HE2	1.60	0.49
1:A:687:GLU:HG2	1:A:701:TYR:CD2	2.47	0.49
1:A:736:ARG:HH22	1:C:58:THR:HG22	1.77	0.49
1:B:31:PHE:CE2	1:C:630:LEU:HD23	2.47	0.49
1:B:416:GLY:HA2	1:C:126:PRO:HG2	1.93	0.49
1:B:439:GLU:HA	1:B:439:GLU:OE1	2.12	0.49
1:B:498:THR:O	1:B:498:THR:HG22	2.11	0.49
1:B:668:PRO:CG	2:N:88:PHE:CD2	2.92	0.49
1:C:98:SER:O	1:C:99:THR:HG23	2.12	0.49
1:C:175:GLY:H	1:C:184:LYS:HE2	1.76	0.49
1:C:187:ILE:HD12	1:C:190:ASP:OD2	2.12	0.49
1:C:370:LEU:HD23	1:C:370:LEU:C	2.32	0.49
1:C:399:GLU:OE1	1:C:523:ARG:HG2	2.12	0.49
1:C:428:ILE:HG13	1:C:429:THR:N	2.26	0.49
1:D:261:PHE:O	1:D:279:ALA:HB1	2.11	0.49
1:D:769:GLN:HB3	1:D:794:PHE:CE2	2.47	0.49
1:D:839:GLY:C	1:F:198:GLN:HG3	2.31	0.49
1:E:398:ILE:HG12	1:E:398:ILE:O	2.11	0.49
1:E:452:ILE:CG2	1:F:159:VAL:H	2.11	0.49
1:E:734:ASN:HD22	1:E:735:ASP:N	2.09	0.49
1:F:308:SER:O	1:F:311:ASN:N	2.38	0.49
1:F:526:LEU:N	1:F:526:LEU:HD13	2.26	0.49
1:F:766:PHE:O	1:F:766:PHE:CG	2.65	0.49
1:F:823:HIS:N	1:F:823:HIS:ND1	2.59	0.49
1:G:163:GLY:HA2	1:G:208:GLU:HG3	1.94	0.49
1:G:187:ILE:C	1:G:189:ALA:N	2.66	0.49
1:G:731:TRP:C	1:G:733:GLY:N	2.66	0.49
1:G:802:SER:CB	1:G:862:LYS:HA	2.42	0.49
1:H:24:LEU:HD12	7:5:9:LEU:CD2	2.41	0.49
1:H:198:GLN:N	1:H:198:GLN:CD	2.65	0.49
1:H:247:GLU:HG2	1:H:248:GLY:N	2.28	0.49
1:H:345:LEU:H	1:H:355:VAL:HG23	1.77	0.49
1:H:394:ASP:OD1	1:H:394:ASP:N	2.45	0.49
1:H:451:GLN:NE2	1:I:157:PHE:CE1	2.68	0.49
1:H:478:ALA:O	1:H:509:VAL:HG21	2.12	0.49
1:H:595:SER:O	1:H:703:GLY:HA2	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:394:ASP:O	1:I:398:ILE:HA	2.12	0.49
1:I:517:TYR:C	1:I:520:ILE:CG1	2.80	0.49
1:I:602:ARG:NH2	1:I:699:PHE:O	2.45	0.49
1:J:214:ARG:HH12	1:J:241:LYS:HZ2	1.60	0.49
1:J:261:PHE:CE1	1:J:283:LEU:HD12	2.47	0.49
1:J:433:ASP:CG	1:J:434:GLY:N	2.65	0.49
1:K:358:LEU:HD13	1:K:942:ARG:NH2	2.23	0.49
2:N:114:LEU:HB2	2:N:387:TRP:HZ2	1.77	0.49
4:M:325:GLN:O	4:M:329:LEU:HG	2.12	0.49
5:S:129:GLN:O	5:S:133:ASN:ND2	2.45	0.49
6:V:90:LEU:HD11	6:V:166:GLN:HG3	1.94	0.49
6:V:183:ILE:HD12	6:V:188:PHE:CA	2.42	0.49
1:A:44:LYS:HE3	1:B:573:LEU:HD23	1.94	0.49
1:A:121:TYR:CD1	1:A:121:TYR:N	2.79	0.49
1:A:203:ASN:CA	1:A:206:GLU:OE2	2.50	0.49
1:A:221:LYS:HD3	1:A:305:ASP:HB3	1.93	0.49
1:A:262:ASP:O	1:C:423:TYR:CD2	2.62	0.49
1:A:301:PRO:CG	1:A:310:ILE:HG22	2.42	0.49
1:A:826:SER:O	1:A:828:PHE:HD1	1.95	0.49
1:A:837:ARG:NH2	1:C:414:LEU:HD11	2.27	0.49
1:B:203:ASN:CB	1:C:836:MET:CE	2.90	0.49
1:C:132:PRO:O	1:C:215:ALA:HA	2.12	0.49
1:C:479:LEU:CD2	1:C:509:VAL:CG2	2.88	0.49
1:C:515:ASP:CG	1:C:516:ALA:H	2.14	0.49
1:C:543:LEU:HA	1:C:546:ARG:NH1	2.27	0.49
1:D:721:VAL:HG22	1:D:721:VAL:O	2.11	0.49
1:E:257:ASP:OD1	1:E:257:ASP:C	2.50	0.49
1:E:479:LEU:HD22	1:E:479:LEU:O	2.12	0.49
1:E:675:PHE:CA	1:E:944:PRO:HG3	2.42	0.49
1:E:833:ALA:HB3	1:E:835:THR:HG23	1.93	0.49
1:E:833:ALA:O	1:E:835:THR:N	2.44	0.49
1:F:136:GLU:OE1	1:F:136:GLU:HA	2.12	0.49
1:F:311:ASN:C	1:F:313:VAL:H	2.16	0.49
1:F:619:PHE:CD1	1:F:619:PHE:N	2.75	0.49
1:F:739:THR:O	1:F:739:THR:HG23	2.12	0.49
1:G:59:ASP:OD1	1:G:59:ASP:N	2.44	0.49
1:G:476:ASN:O	1:G:477:VAL:HG12	2.12	0.49
1:H:191:LYS:O	1:H:191:LYS:HG3	2.12	0.49
1:H:685:THR:HG22	5:P:8:PHE:CD2	2.48	0.49
1:H:840:GLN:O	1:H:840:GLN:HG2	2.11	0.49
1:I:352:LEU:HD23	1:I:937:GLU:HB3	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:693:SER:O	1:I:694:GLY:O	2.30	0.49
1:J:102:ASP:HB2	1:J:616:TYR:CE1	2.47	0.49
1:J:116:TYR:CD1	1:J:116:TYR:N	2.68	0.49
1:J:214:ARG:NH1	1:J:286:GLU:OE2	2.45	0.49
1:J:320:ARG:O	1:J:501:TYR:OH	2.24	0.49
1:J:575:LEU:O	1:J:579:TYR:OH	2.27	0.49
1:J:844:ALA:N	1:L:228:SER:O	2.44	0.49
1:K:244:PRO:HD3	1:K:253:ASP:O	2.11	0.49
1:K:388:VAL:O	1:K:388:VAL:HG13	2.11	0.49
1:K:403:VAL:CG2	1:K:465:GLN:HG3	2.41	0.49
1:L:107:LEU:HD22	1:L:326:PHE:HE1	1.77	0.49
1:L:255:ASP:O	1:L:256:ILE:HG13	2.12	0.49
1:L:479:LEU:HD23	1:L:509:VAL:CG2	2.40	0.49
1:L:656:ILE:HG13	1:L:663:VAL:CG2	2.42	0.49
1:L:686:LYS:O	1:L:701:TYR:CD2	2.65	0.49
1:L:769:GLN:HG2	1:L:871:TRP:CZ3	2.47	0.49
2:N:282:VAL:HG12	2:N:283:PRO:HD3	1.94	0.49
2:N:396:PRO:HG2	2:N:399:PHE:CD1	2.47	0.49
7:1:17:PRO:CG	7:1:25:ILE:HG22	2.40	0.49
1:A:1:MET:C	1:A:2:ALA:O	2.48	0.49
1:A:76:THR:N	1:A:79:LEU:O	2.41	0.49
1:A:508:VAL:HG23	1:A:834:PRO:CD	2.43	0.49
1:A:770:MET:HE2	1:A:770:MET:HA	1.95	0.49
1:B:329:ASN:HB2	1:B:331:VAL:HG13	1.94	0.49
1:B:846:PHE:CD2	1:B:847:PRO:CD	2.94	0.49
1:C:334:MET:O	1:C:334:MET:HG3	2.12	0.49
1:C:544:ARG:CB	1:C:544:ARG:NH1	2.68	0.49
1:C:699:PHE:O	1:C:699:PHE:CD2	2.66	0.49
1:D:150:GLU:C	1:D:152:ASP:H	2.13	0.49
1:D:204:TRP:CZ3	1:E:313:VAL:HG13	2.47	0.49
1:D:734:ASN:O	1:D:735:ASP:HB3	2.12	0.49
1:E:453:CYS:O	1:F:159:VAL:CG1	2.58	0.49
1:E:907:VAL:HG23	1:E:908:ASP:O	2.12	0.49
1:F:35:THR:HG23	1:F:35:THR:O	2.13	0.49
1:F:222:MET:CE	1:F:311:ASN:HB3	2.42	0.49
1:F:538:PRO:HG2	1:F:539:ARG:HG3	1.94	0.49
1:F:686:LYS:CG	5:Q:8:PHE:CE1	2.93	0.49
1:F:756:VAL:HG11	1:F:766:PHE:HB3	1.93	0.49
1:F:795:PHE:CD2	1:F:795:PHE:C	2.84	0.49
1:G:156:THR:CG2	1:I:451:GLN:HE21	2.25	0.49
1:G:198:GLN:CG	1:G:199:VAL:N	2.64	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:379:ARG:HG3	1:G:379:ARG:NH1	2.27	0.49
1:G:410:TYR:CD1	1:I:837:ARG:HB2	2.46	0.49
1:G:412:PHE:CE2	1:I:837:ARG:HG3	2.38	0.49
1:G:494:LEU:HB3	1:G:503:TYR:HD1	1.76	0.49
1:H:12:TYR:CD2	1:H:13:MET:CE	2.94	0.49
1:I:213:GLY:O	1:I:283:LEU:HD23	2.12	0.49
1:I:648:SER:O	1:I:921:GLU:OE1	2.29	0.49
1:J:100:TYR:HE2	1:J:561:GLN:CG	2.25	0.49
1:J:109:ARG:HB2	1:J:324:ILE:HD13	1.92	0.49
1:J:222:MET:HG3	1:J:307:SER:CA	2.36	0.49
1:J:406:GLU:CG	1:L:474:TYR:CE2	2.85	0.49
1:J:644:ASN:CB	1:J:925:VAL:HG12	2.42	0.49
1:J:663:VAL:HG13	1:J:905:PHE:HB2	1.94	0.49
1:J:721:VAL:CG1	1:J:905:PHE:CG	2.94	0.49
1:J:767:LEU:CD1	1:J:771:LEU:HD13	2.41	0.49
1:J:870:MET:O	1:J:871:TRP:C	2.50	0.49
1:J:921:GLU:CA	1:J:921:GLU:OE1	2.57	0.49
1:K:136:GLU:CB	1:K:151:LYS:HA	2.41	0.49
1:K:170:GLN:HG3	1:K:185:LYS:HD2	1.94	0.49
1:K:170:GLN:HE21	1:K:185:LYS:CE	2.25	0.49
1:K:397:ILE:HG23	1:K:865:LEU:CD1	2.42	0.49
1:K:400:ASN:ND2	1:K:469:TRP:HZ2	2.10	0.49
1:K:545:TYR:HA	1:K:548:MET:HE2	1.95	0.49
1:K:569:ILE:CA	1:K:572:LEU:HD22	2.42	0.49
1:K:788:LYS:HG2	1:K:788:LYS:O	2.11	0.49
1:L:372:ASP:C	1:L:374:LEU:H	2.14	0.49
1:L:525:SER:O	1:L:526:LEU:C	2.49	0.49
1:L:633:MET:O	1:L:639:HIS:HD2	1.95	0.49
1:L:731:TRP:O	1:L:731:TRP:CE3	2.59	0.49
2:N:120:ASN:HD21	2:N:378:VAL:HB	1.76	0.49
2:N:124:TYR:HE1	2:N:497:ARG:HG2	1.77	0.49
2:N:394:GLN:HB2	2:N:478:PRO:C	2.32	0.49
4:M:106:SER:OG	4:M:109:VAL:HG23	2.11	0.49
4:M:112:ASN:C	4:M:114:ASP:N	2.61	0.49
4:M:251:TYR:O	4:M:255:LEU:HB2	2.12	0.49
5:P:2:ASN:HB3	5:P:6:GLY:HA3	1.94	0.49
5:S:14:SER:CB	5:S:15:PRO:HD3	2.33	0.49
5:S:36:VAL:CG1	5:S:39:ARG:HB3	2.43	0.49
6:V:43:ARG:C	6:V:45:ASN:N	2.66	0.49
6:V:58:GLN:HB3	6:V:193:VAL:HG11	1.94	0.49
1:A:229:PHE:HA	1:B:844:ALA:O	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:383:MET:SD	1:B:756:VAL:HG13	2.51	0.49
1:A:714:LEU:HD21	1:A:910:MET:CE	2.43	0.49
1:A:739:THR:O	1:A:739:THR:HG23	2.12	0.49
1:A:771:LEU:HD13	1:A:777:GLY:HA3	1.95	0.49
1:A:785:GLU:HG2	1:A:786:GLY:H	1.77	0.49
1:A:875:PHE:O	1:A:886:THR:CG2	2.60	0.49
1:B:96:MET:HG2	1:B:569:ILE:HG23	1.93	0.49
1:B:198:GLN:O	1:C:838:GLN:HB2	2.12	0.49
1:B:921:GLU:HA	1:B:921:GLU:OE1	2.12	0.49
1:C:224:PRO:HD3	1:C:314:GLN:HG2	1.93	0.49
1:C:398:ILE:HD11	1:C:473:LEU:HD21	1.94	0.49
1:C:573:LEU:CB	1:C:641:GLN:NE2	2.71	0.49
1:C:724:MET:CG	1:C:729:VAL:CG1	2.79	0.49
1:D:771:LEU:HD23	1:D:879:PHE:HB2	1.94	0.49
1:E:6:MET:HE3	1:E:7:MET:HA	1.94	0.49
1:E:122:ASN:HA	1:F:825:ASN:HA	1.93	0.49
1:E:329:ASN:HB3	1:E:565:LYS:HZ1	1.76	0.49
1:E:717:THR:HB	1:E:908:ASP:OD2	2.12	0.49
1:F:56:VAL:CG1	1:F:57:THR:H	2.24	0.49
1:F:575:LEU:HD21	1:F:634:LEU:HD22	1.94	0.49
1:G:341:ASN:HB2	1:G:584:ASN:OD1	2.12	0.49
1:G:527:ASP:O	1:G:528:PRO:C	2.51	0.49
1:H:280:ASP:OD1	1:H:280:ASP:N	2.36	0.49
1:H:456:ASN:OD1	1:I:200:GLY:HA3	2.13	0.49
1:H:761:MET:SD	1:H:798:PHE:HE1	2.34	0.49
1:I:478:ALA:C	1:I:480:TYR:N	2.65	0.49
1:I:504:MET:SD	1:I:597:LEU:CD2	2.95	0.49
1:J:20:ALA:O	1:J:24:LEU:HD13	2.12	0.49
1:J:198:GLN:NE2	1:K:840:GLN:HG2	2.13	0.49
1:J:203:ASN:CG	1:K:836:MET:SD	2.91	0.49
1:J:242:PHE:HE1	1:J:288:VAL:C	2.16	0.49
1:J:527:ASP:OD1	1:J:527:ASP:O	2.30	0.49
1:J:634:LEU:O	1:J:634:LEU:HD22	2.12	0.49
1:J:730:SER:HB2	1:J:741:ASN:O	2.11	0.49
1:J:840:GLN:CB	1:J:841:PRO:CD	2.89	0.49
1:K:20:ALA:HA	1:K:23:TYR:CD2	2.47	0.49
1:K:88:VAL:CG1	1:K:576:PRO:HA	2.42	0.49
1:K:155:LYS:O	1:K:156:THR:C	2.50	0.49
1:K:239:GLN:CG	1:K:240:ALA:N	2.75	0.49
1:K:818:THR:CB	1:K:820:PRO:HD2	2.42	0.49
1:K:951:THR:HG23	6:U:45:ASN:ND2	2.26	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:19:ASP:HA	1:L:48:PRO:HD2	1.93	0.49
1:L:114:LYS:C	1:L:322:ASN:O	2.49	0.49
1:L:533:ASN:C	1:L:533:ASN:HD22	2.16	0.49
1:L:674:ALA:HA	1:L:889:GLY:O	2.13	0.49
2:N:220:MET:HB2	2:N:221:PRO:CD	2.42	0.49
4:M:186:PHE:HD1	4:M:186:PHE:H	1.59	0.49
5:P:4:THR:CG2	5:P:11:GLY:H	2.25	0.49
5:R:49:MET:HG2	5:R:50:THR:H	1.77	0.49
7:2:17:PRO:HG2	7:2:22:TRP:CZ2	2.47	0.49
1:A:41:LEU:H	1:A:41:LEU:CD2	2.10	0.49
1:A:239:GLN:HE21	1:A:288:VAL:HG21	1.76	0.49
1:A:355:VAL:CB	1:A:569:ILE:HD11	2.42	0.49
1:A:564:GLN:NE2	1:A:569:ILE:CB	2.74	0.49
1:A:716:HIS:O	1:A:717:THR:HG23	2.12	0.49
1:B:81:LYS:O	1:B:81:LYS:HD3	2.12	0.49
1:B:229:PHE:CE2	1:C:849:PRO:HD3	2.48	0.49
1:B:936:ILE:HG12	1:B:937:GLU:N	2.27	0.49
1:C:746:LYS:HA	1:C:760:ASN:O	2.12	0.49
1:D:176:THR:O	1:D:182:ASN:O	2.31	0.49
1:D:560:ILE:CG2	1:D:561:GLN:N	2.74	0.49
1:D:753:GLY:O	1:D:763:LYS:NZ	2.41	0.49
1:E:155:LYS:HE3	1:E:261:PHE:HZ	1.74	0.49
1:E:317:MET:O	1:E:317:MET:CG	2.57	0.49
1:E:488:THR:HB	1:E:507:ARG:NH2	2.27	0.49
1:F:65:THR:CB	1:F:618:THR:HG22	2.40	0.49
1:F:554:ARG:HB2	1:F:555:TYR:CD2	2.48	0.49
1:F:575:LEU:HD11	1:F:634:LEU:CD2	2.42	0.49
1:F:602:ARG:HB3	5:R:35:THR:OG1	2.11	0.49
1:F:791:MET:HE3	1:F:792:TYR:HE1	1.78	0.49
1:F:824:ASN:O	1:F:825:ASN:CB	2.58	0.49
1:F:949:ASN:HD22	1:H:733:GLY:HA2	1.76	0.49
1:G:802:SER:HB3	1:G:862:LYS:HA	1.95	0.49
1:G:842:TYR:CG	1:G:843:PRO:CD	2.95	0.49
1:H:131:ASN:HB3	1:H:225:CYS:HB2	1.94	0.49
1:H:153:VAL:O	1:H:156:THR:HG23	2.11	0.49
1:H:162:THR:HA	1:H:193:PHE:CZ	2.47	0.49
1:H:168:THR:HG21	1:H:185:LYS:NZ	2.28	0.49
1:H:222:MET:HG2	1:H:307:SER:CA	2.42	0.49
1:H:330:PHE:CG	1:H:562:VAL:HG12	2.48	0.49
1:H:950:ALA:HB1	1:J:892:MET:HE2	1.95	0.49
1:I:51:ALA:HB1	1:I:52:PRO:HD2	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:136:GLU:OE2	1:I:218:LYS:HD2	2.12	0.49
1:I:630:LEU:O	1:I:630:LEU:CD2	2.56	0.49
1:I:838:GLN:O	1:I:838:GLN:HG3	2.12	0.49
1:J:29:VAL:CG1	1:J:30:GLN:H	2.18	0.49
1:J:45:PHE:CD1	1:J:45:PHE:N	2.80	0.49
1:J:140:LYS:HD3	1:J:147:VAL:HG13	1.94	0.49
1:J:426:VAL:HG23	1:J:427:LYS:N	2.28	0.49
1:J:847:PRO:O	1:L:121:TYR:CE2	2.65	0.49
1:K:682:ARG:HH11	1:K:907:VAL:CG1	2.21	0.49
1:K:875:PHE:HE2	1:K:889:GLY:CA	2.25	0.49
1:L:52:PRO:CB	1:L:56:VAL:HG21	2.41	0.49
1:L:64:LEU:HD11	1:L:621:PRO:HD3	1.95	0.49
1:L:66:LEU:HD11	1:L:92:ARG:HH22	1.76	0.49
1:L:101:PHE:HZ	1:L:581:TYR:HE1	1.59	0.49
1:L:296:HIS:HE2	1:L:317:MET:CE	2.26	0.49
1:L:397:ILE:HG13	1:L:799:GLN:HE22	1.78	0.49
1:L:646:TYR:CD1	1:L:647:LEU:N	2.81	0.49
1:L:720:LYS:CA	1:L:743:PHE:O	2.61	0.49
2:N:333:LYS:HA	2:N:339:SER:HA	1.93	0.49
6:V:221:GLU:O	6:V:221:GLU:CG	2.58	0.49
7:6:9:LEU:HD12	7:6:11:PRO:HD2	1.93	0.49
7:6:26:GLY:C	7:6:28:SER:N	2.65	0.49
1:A:104:ARG:HD3	1:A:559:HIS:CD2	2.47	0.49
1:A:135:TRP:CZ3	1:A:137:THR:HB	2.48	0.49
1:A:391:TYR:CE1	1:A:396:ARG:HG2	2.47	0.49
1:A:640:ASP:CG	1:A:929:HIS:HA	2.33	0.49
1:A:747:ARG:HH21	1:A:751:GLY:HA3	1.76	0.49
1:A:832:LEU:O	1:A:833:ALA:CB	2.58	0.49
1:B:55:ASP:O	1:B:626:THR:HG21	2.13	0.49
1:B:136:GLU:CD	1:B:218:LYS:NZ	2.65	0.49
1:B:154:THR:OG1	1:B:155:LYS:HG3	2.09	0.49
1:B:195:PRO:CG	1:C:823:HIS:CG	2.93	0.49
1:B:219:ASP:OD1	1:B:219:ASP:N	2.45	0.49
1:B:400:ASN:OD1	1:B:400:ASN:C	2.47	0.49
1:B:663:VAL:HG11	1:B:916:LEU:CD2	2.40	0.49
1:B:731:TRP:CB	1:B:732:PRO:CD	2.89	0.49
1:C:218:LYS:HE3	1:C:219:ASP:OD1	2.13	0.49
1:C:503:TYR:C	1:C:505:ASN:N	2.66	0.49
1:C:631:GLU:C	1:C:633:MET:H	2.14	0.49
1:C:892:MET:O	1:C:893:LEU:O	2.30	0.49
1:C:947:ALA:CB	1:K:724:MET:SD	3.00	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:216:LEU:HD11	1:E:843:PRO:HG3	1.94	0.49
1:D:723:ILE:O	1:D:730:SER:N	2.44	0.49
1:D:922:VAL:O	1:D:922:VAL:HG23	2.13	0.49
1:E:58:THR:HG21	1:E:62:GLN:HG3	1.94	0.49
1:E:327:ARG:HG2	1:E:592:ILE:O	2.12	0.49
1:E:417:THR:HG23	1:E:418:GLY:N	2.27	0.49
1:E:428:ILE:HG23	1:F:169:ASN:HD22	1.71	0.49
1:F:331:VAL:O	1:F:331:VAL:HG22	2.12	0.49
1:F:344:VAL:HG23	1:F:353:ASN:OD1	2.11	0.49
1:F:487:TYR:CD2	1:F:487:TYR:N	2.79	0.49
1:F:498:THR:CB	1:F:503:TYR:CE2	2.95	0.49
1:F:526:LEU:N	1:F:526:LEU:CD2	2.65	0.49
1:F:602:ARG:CB	5:R:35:THR:OG1	2.60	0.49
1:F:803:ARG:HH11	1:F:803:ARG:HG3	1.76	0.49
1:G:361:ARG:HH11	1:G:361:ARG:HG2	1.78	0.49
1:G:548:MET:HB3	1:H:523:ARG:HG2	1.94	0.49
1:G:628:SER:CA	1:G:631:GLU:HB3	2.42	0.49
1:H:94:LEU:CD1	1:H:619:PHE:HE1	2.03	0.49
1:H:278:LYS:CA	1:H:280:ASP:OD1	2.60	0.49
1:H:372:ASP:CB	1:H:377:ARG:HD2	2.43	0.49
1:H:424:GLN:HA	1:H:449:GLN:CG	2.38	0.49
1:H:514:VAL:HG23	1:H:518:ILE:HD13	1.89	0.49
1:H:524:TRP:CE3	1:H:803:ARG:HG2	2.45	0.49
1:H:662:ASN:N	1:H:906:GLU:HA	2.28	0.49
1:H:687:GLU:CB	1:H:701:TYR:CD2	2.95	0.49
1:I:57:THR:O	1:I:623:ALA:HB2	2.13	0.49
1:I:607:SER:O	1:I:607:SER:OG	2.23	0.49
1:I:840:GLN:O	1:I:840:GLN:HG2	2.04	0.49
1:J:97:ALA:HA	1:J:570:LYS:O	2.13	0.49
1:J:135:TRP:CZ3	1:J:309:GLU:HB2	2.47	0.49
1:J:288:VAL:CG2	1:J:289:ASN:N	2.75	0.49
1:J:398:ILE:HG21	1:J:473:LEU:HD11	1.94	0.49
1:K:391:TYR:C	1:K:391:TYR:CD1	2.85	0.49
1:K:774:TYR:C	1:K:776:ILE:H	2.15	0.49
1:K:833:ALA:C	1:K:835:THR:N	2.66	0.49
1:K:837:ARG:HH11	1:L:459:ALA:HB3	1.77	0.49
1:L:73:ARG:O	1:L:74:GLU:HG2	2.13	0.49
1:L:296:HIS:CE1	1:L:317:MET:HG3	2.47	0.49
1:L:333:LEU:HD22	1:L:333:LEU:O	2.13	0.49
2:N:100:PHE:HE2	2:N:483:ILE:HD11	1.71	0.49
4:M:388:TRP:CZ2	4:M:389:LEU:CD2	2.92	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Q:16:TYR:CE2	5:R:18:THR:OG1	2.56	0.49
1:A:22:GLU:HB2	4:M:20:GLY:HA3	1.95	0.49
1:A:56:VAL:HG22	1:A:56:VAL:O	2.12	0.49
1:A:151:LYS:HE2	1:A:218:LYS:NZ	2.27	0.49
1:A:395:VAL:CG2	1:A:476:ASN:HB3	2.35	0.49
1:A:575:LEU:HB3	1:A:576:PRO:HD2	1.94	0.49
1:B:42:GLY:CA	7:1:9:LEU:HB3	2.43	0.49
1:B:162:THR:CB	1:B:212:GLY:N	2.68	0.49
1:B:190:ASP:OD2	1:B:236:LYS:O	2.31	0.49
1:B:300:LYS:O	1:B:302:GLY:N	2.45	0.49
1:B:358:LEU:HD23	2:N:95:THR:CG2	2.38	0.49
1:C:373:SER:HA	1:C:790:ARG:HD3	1.95	0.49
1:C:377:ARG:CB	1:C:377:ARG:NH1	2.75	0.49
1:C:397:ILE:HA	1:C:525:SER:HB3	1.93	0.49
1:C:426:VAL:HG13	1:C:438:SER:HB2	1.95	0.49
1:C:452:ILE:O	1:C:454:LYS:N	2.45	0.49
1:C:574:LEU:HD22	1:C:579:TYR:CE2	2.48	0.49
1:C:737:LEU:O	1:C:738:LEU:C	2.49	0.49
1:C:767:LEU:O	1:C:767:LEU:HD22	2.13	0.49
1:D:116:TYR:CD1	1:D:116:TYR:N	2.80	0.49
1:D:170:GLN:OE1	1:D:185:LYS:HE3	2.12	0.49
1:D:414:LEU:HD21	1:F:410:TYR:CE2	2.45	0.49
1:D:497:ASN:N	1:D:497:ASN:HD22	2.08	0.49
1:D:552:ASN:C	1:E:804:GLN:HG2	2.24	0.49
1:D:649:ALA:HB1	1:D:919:LEU:HD12	1.95	0.49
1:D:752:GLU:O	1:D:752:GLU:HG2	2.08	0.49
1:D:836:MET:HE1	1:F:414:LEU:HD22	1.94	0.49
1:F:20:ALA:HA	1:F:23:TYR:CE2	2.48	0.49
1:F:188:TYR:C	1:F:192:THR:OG1	2.50	0.49
1:F:749:VAL:O	1:F:749:VAL:HG12	2.12	0.49
1:F:948:GLY:O	8:Y:5:UNK:O	2.30	0.49
1:G:13:MET:HE1	1:H:925:VAL:O	2.11	0.49
1:G:31:PHE:CZ	1:H:630:LEU:HB2	2.48	0.49
1:G:202:GLU:HG3	1:H:313:VAL:HG11	1.95	0.49
1:G:355:VAL:O	1:G:355:VAL:HG13	2.11	0.49
1:G:500:THR:HG23	1:G:503:TYR:CB	2.43	0.49
1:H:298:VAL:CG2	1:H:317:MET:HG2	2.43	0.49
1:H:472:PHE:CD2	1:H:473:LEU:N	2.81	0.49
1:H:568:ALA:HB2	1:H:926:VAL:HG21	1.93	0.49
1:I:210:PHE:HD2	1:I:280:ASP:O	1.95	0.49
1:I:333:LEU:HD12	1:I:592:ILE:HG21	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:482:PRO:O	1:I:484:SER:N	2.45	0.49
1:I:517:TYR:C	1:I:517:TYR:CD1	2.85	0.49
1:J:24:LEU:HA	1:K:639:HIS:HB3	1.94	0.49
1:J:103:ILE:HD12	1:J:103:ILE:C	2.33	0.49
1:J:318:PRO:O	1:J:319:ASN:C	2.50	0.49
1:J:408:PRO:HB2	1:J:410:TYR:OH	2.12	0.49
1:J:476:ASN:OD1	1:J:476:ASN:N	2.45	0.49
1:J:738:LEU:CD1	1:J:754:TYR:CE2	2.96	0.49
1:J:745:ILE:HG23	1:J:765:TRP:CD1	2.48	0.49
1:K:285:THR:HG23	1:K:285:THR:O	2.13	0.49
1:K:385:ASN:ND2	1:K:385:ASN:O	2.45	0.49
1:K:445:ALA:H	1:K:449:GLN:HE22	1.60	0.49
1:K:667:ILE:C	1:K:668:PRO:O	2.47	0.49
1:K:863:LYS:HG2	1:K:864:PHE:N	2.27	0.49
1:L:456:ASN:O	1:L:457:VAL:C	2.51	0.49
1:L:640:ASP:OD1	1:L:927:ARG:HD3	2.13	0.49
2:N:44:TYR:CZ	2:N:46:GLU:HG2	2.47	0.49
2:N:107:GLY:N	2:N:514:LEU:HD13	2.28	0.49
4:M:254:HIS:O	4:M:257:THR:HB	2.13	0.49
5:Q:60:ASP:HB2	5:Q:62:THR:CG2	2.41	0.49
5:S:77:LEU:C	5:S:79:SER:H	2.13	0.49
6:U:81:GLN:HE22	6:U:178:PRO:HA	1.78	0.49
6:U:204:SER:O	6:U:207:LEU:HB3	2.12	0.49
1:A:158:GLY:C	1:C:452:ILE:CG2	2.81	0.49
1:A:190:ASP:CB	1:A:236:LYS:HD3	2.43	0.49
1:A:198:GLN:CB	1:B:839:GLY:N	2.70	0.49
1:A:761:MET:HE3	1:A:766:PHE:CB	2.42	0.49
1:A:825:ASN:ND2	1:C:123:SER:N	2.61	0.49
1:B:180:ALA:CB	1:B:182:ASN:HD21	2.14	0.49
1:B:188:TYR:O	1:B:241:LYS:NZ	2.46	0.49
1:B:685:THR:HB	1:B:913:PRO:O	2.12	0.49
1:B:738:LEU:HG	1:B:738:LEU:O	2.13	0.49
1:C:162:THR:O	1:C:162:THR:CG2	2.60	0.49
1:C:734:ASN:C	1:C:736:ARG:HG3	2.19	0.49
1:D:187:ILE:C	1:D:189:ALA:H	2.15	0.49
1:D:222:MET:HE2	1:D:307:SER:CB	2.42	0.49
1:D:372:ASP:HB2	1:D:377:ARG:CD	2.43	0.49
1:D:515:ASP:C	1:D:517:TYR:H	2.16	0.49
1:D:759:CYS:HB2	1:D:800:PRO:CB	2.43	0.49
1:D:774:TYR:HE1	1:D:789:ASP:HB3	1.77	0.49
1:D:829:THR:HG22	1:D:830:GLY:N	2.21	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:267:SER:CA	1:F:277:TYR:CD2	2.91	0.49
1:G:24:LEU:HD12	1:G:28:LEU:HD12	1.95	0.49
1:G:78:TYR:CB	1:G:695:PHE:CE1	2.94	0.49
1:G:249:GLU:HG3	1:G:250:GLN:HG2	1.95	0.49
1:G:364:GLU:HG3	1:G:708:LEU:HD12	1.93	0.49
1:G:498:THR:CG2	1:G:498:THR:O	2.61	0.49
1:G:811:TYR:CE2	1:G:813:ASP:HB3	2.47	0.49
1:H:31:PHE:CD1	1:H:32:ALA:N	2.80	0.49
1:H:46:ARG:NH1	1:H:46:ARG:O	2.46	0.49
1:H:368:GLN:HG2	1:H:709:ASP:O	2.12	0.49
1:H:510:ALA:O	1:H:513:LEU:HB2	2.13	0.49
1:H:662:ASN:H	1:H:906:GLU:HA	1.77	0.49
1:H:859:VAL:HG22	1:H:860:THR:N	2.27	0.49
1:H:865:LEU:O	1:H:866:CYS:HB2	2.13	0.49
1:H:878:ASN:O	1:H:879:PHE:CB	2.47	0.49
1:I:247:GLU:C	1:I:249:GLU:N	2.66	0.49
1:I:409:ASN:ND2	1:I:464:LEU:H	2.10	0.49
1:I:537:HIS:CD2	1:I:538:PRO:HD2	2.48	0.49
1:J:2:ALA:N	1:K:890:GLN:HE21	2.11	0.49
1:J:25:SER:OG	1:K:639:HIS:CE1	2.66	0.49
1:J:409:ASN:O	1:J:461:GLU:OE1	2.30	0.49
1:J:454:LYS:O	1:K:211:TYR:CD2	2.66	0.49
1:J:796:ARG:HH11	1:J:796:ARG:CG	2.12	0.49
1:K:47:ASN:C	1:K:47:ASN:ND2	2.65	0.49
1:K:196:GLU:N	1:K:197:PRO:CD	2.76	0.49
1:K:309:GLU:O	1:K:312:LEU:N	2.26	0.49
1:K:416:GLY:O	1:K:417:THR:CG2	2.60	0.49
1:K:439:GLU:O	1:K:439:GLU:HG3	2.13	0.49
1:K:725:PHE:HD2	1:K:731:TRP:HB2	1.78	0.49
1:K:840:GLN:HB2	1:K:841:PRO:HD2	1.94	0.49
1:K:840:GLN:HG3	1:K:841:PRO:O	2.12	0.49
1:K:863:LYS:HZ3	1:K:863:LYS:CB	2.20	0.49
1:K:929:HIS:CB	6:U:40:MET:HE3	2.41	0.49
1:L:397:ILE:HD11	1:L:799:GLN:HE21	1.77	0.49
1:L:704:SER:O	1:L:706:PRO:HD3	2.13	0.49
1:L:933:ARG:O	1:L:933:ARG:HG2	2.09	0.49
2:N:378:VAL:HG23	2:N:379:THR:N	2.27	0.49
2:N:399:PHE:CE2	2:N:410:VAL:HG13	2.47	0.49
4:M:30:MET:HA	4:M:33:ILE:HG12	1.94	0.49
4:M:180:GLN:O	4:M:182:GLY:N	2.45	0.49
5:Q:35:THR:N	5:Q:43:PRO:HG2	2.28	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:R:29:GLN:O	5:R:48:THR:HB	2.12	0.49
5:R:63:ALA:HB1	5:R:66:ALA:HB3	1.94	0.49
7:8:25:ILE:O	7:8:25:ILE:CG1	2.39	0.49
1:A:73:ARG:NH2	1:A:80:TYR:HE1	2.10	0.49
1:A:234:ASN:O	1:A:236:LYS:N	2.46	0.49
1:B:193:PHE:CE1	1:B:199:VAL:HG23	2.46	0.49
1:B:300:LYS:C	1:B:302:GLY:N	2.66	0.49
1:B:347:GLY:O	1:B:348:GLN:C	2.51	0.49
1:C:46:ARG:CB	1:C:46:ARG:HH11	2.25	0.49
1:C:641:GLN:HG3	1:C:643:PHE:HZ	1.76	0.49
1:C:812:LYS:C	1:C:814:TYR:N	2.66	0.49
1:D:159:VAL:O	1:D:160:ALA:HB3	2.13	0.49
1:D:198:GLN:HE22	1:E:838:GLN:HA	1.71	0.49
1:D:275:GLU:N	1:D:275:GLU:OE1	2.45	0.49
1:D:323:TYR:HB2	1:D:596:SER:HB2	1.95	0.49
1:D:589:VAL:HG22	1:D:589:VAL:O	2.12	0.49
1:E:94:LEU:HB2	1:E:619:PHE:CD2	2.48	0.49
1:E:234:ASN:C	1:E:236:LYS:H	2.16	0.49
1:E:243:LYS:CB	1:E:253:ASP:O	2.58	0.49
1:E:663:VAL:HG12	1:E:905:PHE:O	2.12	0.49
1:F:167:ILE:HG12	1:F:172:LEU:HD12	1.95	0.49
1:F:323:TYR:O	1:F:595:SER:HA	2.13	0.49
1:F:649:ALA:HB2	1:F:919:LEU:CD2	2.34	0.49
1:F:803:ARG:HH11	1:F:803:ARG:CG	2.25	0.49
1:F:893:LEU:HD23	1:F:894:TYR:CE1	2.47	0.49
1:G:162:THR:HG22	1:G:212:GLY:N	2.28	0.49
1:G:312:LEU:CG	1:I:204:TRP:HH2	2.26	0.49
1:G:356:VAL:HG12	1:G:356:VAL:O	2.12	0.49
1:G:781:PHE:CD2	1:G:781:PHE:N	2.73	0.49
1:G:869:VAL:O	1:G:870:MET:HB2	2.12	0.49
1:H:20:ALA:HA	1:H:23:TYR:CE2	2.47	0.49
1:H:155:LYS:O	1:H:156:THR:C	2.50	0.49
1:H:193:PHE:O	1:H:194:GLN:C	2.50	0.49
1:H:565:LYS:HD3	1:H:565:LYS:H	1.77	0.49
1:H:667:ILE:HD12	1:H:667:ILE:N	2.28	0.49
1:H:747:ARG:HB3	1:H:762:THR:HG23	1.92	0.49
1:I:160:ALA:HB1	1:I:212:GLY:O	2.13	0.49
1:I:377:ARG:NH2	1:I:388:VAL:HG22	2.27	0.49
1:I:486:LYS:CG	1:I:509:VAL:HG12	2.35	0.49
1:I:517:TYR:CA	1:I:520:ILE:CG1	2.91	0.49
1:I:672:TRP:CZ2	1:I:901:LEU:HB3	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:172:LEU:HD22	1:J:193:PHE:CE2	2.33	0.49
1:J:203:ASN:OD1	1:J:204:TRP:CE3	2.66	0.49
1:J:348:GLN:H	1:J:579:TYR:HA	1.78	0.49
1:J:731:TRP:N	1:J:732:PRO:CD	2.76	0.49
1:J:789:ASP:OD1	1:J:789:ASP:O	2.30	0.49
1:J:811:TYR:O	1:J:812:LYS:CB	2.57	0.49
1:K:23:TYR:O	6:V:175:SER:CB	2.54	0.49
1:K:74:GLU:O	1:K:80:TYR:HA	2.13	0.49
1:K:541:ALA:O	1:K:545:TYR:HB3	2.12	0.49
1:K:748:SER:OG	1:K:749:VAL:N	2.45	0.49
1:K:946:SER:CB	6:U:28:SER:O	2.60	0.49
1:L:83:ARG:HG3	1:L:582:GLU:HB3	1.94	0.49
1:L:135:TRP:HH2	1:L:156:THR:CB	2.25	0.49
1:L:214:ARG:HH12	1:L:241:LYS:HE2	1.77	0.49
4:M:162:PHE:CE1	4:M:237:ILE:CG1	2.92	0.49
4:M:298:LEU:HD12	6:U:57:GLU:CD	2.26	0.49
5:Q:74:ALA:HA	5:Q:77:LEU:HB3	1.95	0.49
1:A:193:PHE:CE1	1:A:214:ARG:N	2.75	0.49
1:A:237:GLY:CA	1:B:817:VAL:HG12	2.34	0.49
1:A:260:TYR:CD1	1:A:260:TYR:N	2.81	0.49
1:A:533:ASN:HB2	1:A:713:TYR:CE2	2.43	0.49
1:A:875:PHE:O	1:A:888:LEU:HB2	2.13	0.49
1:B:46:ARG:HH21	1:C:925:VAL:HG11	1.78	0.49
1:B:132:PRO:HB2	1:B:215:ALA:HA	1.95	0.49
1:B:177:ASP:HB2	1:B:184:LYS:NZ	2.28	0.49
1:B:241:LYS:HZ3	1:B:256:ILE:CD1	2.26	0.49
1:B:330:PHE:HB3	1:B:333:LEU:HD21	1.95	0.49
1:B:355:VAL:HG12	1:B:355:VAL:O	2.13	0.49
1:C:38:TYR:OH	7:2:24:GLU:CB	2.58	0.49
1:C:121:TYR:CD2	1:C:229:PHE:HB2	2.48	0.49
1:C:176:THR:CG2	1:C:177:ASP:N	2.75	0.49
1:C:214:ARG:HA	1:C:284:TYR:O	2.13	0.49
1:C:329:ASN:O	1:C:330:PHE:HB2	2.13	0.49
1:C:441:GLU:O	1:C:441:GLU:HG3	2.13	0.49
1:C:541:ALA:HA	1:C:544:ARG:CD	2.43	0.49
1:C:653:LEU:CD1	1:C:707:TYR:CE1	2.88	0.49
1:C:706:PRO:HB3	1:C:711:THR:O	2.13	0.49
1:C:724:MET:CG	1:C:729:VAL:HG11	2.43	0.49
1:C:731:TRP:CZ2	1:C:875:PHE:HA	2.47	0.49
1:D:653:LEU:HD12	1:D:653:LEU:H	1.77	0.49
1:E:168:THR:C	1:E:170:GLN:H	2.16	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:275:GLU:CG	1:E:276:GLU:OE2	2.61	0.49
1:E:626:THR:O	1:E:629:THR:N	2.38	0.49
1:E:695:PHE:CD1	1:E:695:PHE:C	2.86	0.49
1:E:745:ILE:HA	1:E:765:TRP:CG	2.48	0.49
1:F:113:PHE:CZ	1:F:115:PRO:HG3	2.48	0.49
1:F:114:LYS:O	1:F:114:LYS:HG2	2.13	0.49
1:F:138:LYS:CA	1:F:149:GLN:HB3	2.38	0.49
1:F:756:VAL:O	1:F:756:VAL:HG23	2.13	0.49
1:F:767:LEU:HD23	1:F:781:PHE:HZ	1.78	0.49
1:F:862:LYS:C	5:P:54:VAL:HB	2.21	0.49
1:G:8:PRO:O	1:G:12:TYR:CB	2.59	0.49
1:G:56:VAL:CG1	1:I:38:TYR:CZ	2.96	0.49
1:G:518:ILE:O	1:G:518:ILE:HG13	2.13	0.49
1:H:67:ARG:NH2	1:I:752:GLU:CB	2.63	0.49
1:H:151:LYS:CB	1:H:154:THR:HG21	2.42	0.49
1:H:157:PHE:HE2	1:H:159:VAL:CG2	2.26	0.49
1:H:372:ASP:HA	1:H:377:ARG:HD2	1.94	0.49
1:I:339:THR:HG23	1:I:342:MET:HE2	1.93	0.49
1:I:537:HIS:C	1:I:539:ARG:N	2.65	0.49
1:I:565:LYS:O	1:I:565:LYS:HG2	2.13	0.49
1:I:659:LYS:HB3	1:I:659:LYS:HZ1	1.77	0.49
1:I:942:ARG:NE	1:I:945:PHE:O	2.40	0.49
1:J:13:MET:HG3	1:K:925:VAL:HG21	1.94	0.49
1:J:449:GLN:HG3	1:K:139:GLU:OE1	2.12	0.49
1:J:666:SER:CB	5:P:16:TYR:CE2	2.96	0.49
1:J:714:LEU:CD1	1:J:714:LEU:C	2.70	0.49
1:J:760:ASN:HD22	5:Q:54:VAL:HG11	1.76	0.49
1:J:764:ASP:C	1:J:766:PHE:N	2.63	0.49
1:J:892:MET:CE	1:J:892:MET:CA	2.89	0.49
1:L:564:GLN:HG3	1:L:564:GLN:O	2.13	0.49
1:L:720:LYS:HG2	1:L:906:GLU:OE2	2.13	0.49
2:N:97:THR:HG23	2:N:483:ILE:O	2.13	0.49
4:M:6:PRO:HG2	4:M:11:ARG:NH1	2.27	0.49
4:M:24:ASP:C	4:M:26:TRP:H	2.16	0.49
4:M:209:LEU:HA	4:M:212:VAL:HG21	1.93	0.49
4:M:265:GLN:C	4:M:267:GLN:H	2.17	0.49
6:U:13:TYR:CE1	6:U:188:PHE:HB3	2.46	0.49
6:U:44:VAL:HG22	6:U:44:VAL:O	2.13	0.49
1:A:410:TYR:O	1:C:462:ILE:HG13	2.13	0.48
1:A:427:LYS:CB	1:A:441:GLU:HB3	2.42	0.48
1:A:842:TYR:CG	1:A:843:PRO:CD	2.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:150:GLU:C	1:B:152:ASP:H	2.16	0.48
1:B:327:ARG:NH1	1:B:704:SER:O	2.45	0.48
1:B:386:SER:O	1:B:386:SER:OG	2.23	0.48
1:C:194:GLN:HB2	1:C:197:PRO:HG2	1.95	0.48
1:C:239:GLN:HG3	1:C:240:ALA:N	2.28	0.48
1:C:250:GLN:HE21	1:C:251:PRO:HG2	1.71	0.48
1:C:324:ILE:HD13	1:C:595:SER:HA	1.94	0.48
1:C:358:LEU:HD22	1:C:942:ARG:NH2	2.28	0.48
1:C:377:ARG:HH21	1:C:388:VAL:HG13	1.78	0.48
1:C:444:ASP:O	1:C:446:ILE:N	2.46	0.48
1:C:533:ASN:HB2	1:C:713:TYR:OH	2.13	0.48
1:D:840:GLN:HG2	1:F:198:GLN:NE2	2.27	0.48
1:E:328:ASP:C	1:E:330:PHE:N	2.67	0.48
1:E:739:THR:O	1:E:739:THR:HG23	2.13	0.48
1:E:922:VAL:HG21	1:E:942:ARG:CG	2.41	0.48
1:F:258:PHE:HE2	1:F:284:TYR:CE2	2.28	0.48
1:F:396:ARG:HH11	1:F:396:ARG:CG	2.25	0.48
1:G:49:THR:HG23	7:6:21:THR:HB	1.94	0.48
1:G:167:ILE:HG23	1:G:167:ILE:O	2.12	0.48
1:G:392:ASP:OD1	1:G:393:PRO:N	2.46	0.48
1:G:428:ILE:HD12	1:H:169:ASN:HB3	1.89	0.48
1:G:443:ASP:O	1:H:150:GLU:HB2	2.12	0.48
1:G:770:MET:HG2	1:G:781:PHE:HD1	1.78	0.48
1:G:927:ARG:HG2	1:I:13:MET:HE1	1.94	0.48
1:H:387:ALA:O	1:H:388:VAL:C	2.51	0.48
1:H:433:ASP:CG	1:I:169:ASN:H	2.16	0.48
1:I:649:ALA:CB	1:I:919:LEU:CD2	2.91	0.48
1:I:731:TRP:N	1:I:732:PRO:CD	2.76	0.48
1:I:798:PHE:HA	1:I:866:CYS:HB2	1.93	0.48
1:J:54:HIS:HB3	7:9:25:ILE:CD1	2.43	0.48
1:J:95:ASP:CG	1:K:779:GLN:HG3	2.34	0.48
1:J:228:SER:OG	1:K:843:PRO:HB3	2.13	0.48
1:J:417:THR:HG22	1:J:419:THR:N	2.28	0.48
1:J:483:ASP:OD2	1:J:507:ARG:NH1	2.46	0.48
1:J:554:ARG:HB3	1:J:555:TYR:CE2	2.48	0.48
1:J:695:PHE:O	1:J:695:PHE:CD2	2.66	0.48
1:J:763:LYS:O	1:J:763:LYS:CG	2.62	0.48
1:J:795:PHE:HE1	1:L:381:PHE:HD1	1.61	0.48
1:K:5:SER:O	6:V:185:THR:N	2.33	0.48
1:K:170:GLN:O	1:K:170:GLN:CG	2.61	0.48
1:K:370:LEU:HD12	1:K:646:TYR:CD1	2.45	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:403:VAL:O	1:K:403:VAL:CG1	2.62	0.48
1:K:627:ALA:O	1:K:631:GLU:HG2	2.13	0.48
1:K:808:GLU:HB2	1:K:814:TYR:CD2	2.47	0.48
1:K:926:VAL:HA	1:K:939:VAL:O	2.13	0.48
1:L:361:ARG:NE	1:L:567:PHE:HE2	2.11	0.48
1:L:707:TYR:CD2	1:L:708:LEU:N	2.81	0.48
1:L:842:TYR:CG	1:L:843:PRO:CD	2.94	0.48
2:N:138:ARG:HE	2:N:154:LEU:CD2	2.23	0.48
2:N:148:ASP:OD1	2:N:149:LEU:N	2.46	0.48
2:N:464:VAL:O	2:N:464:VAL:HG23	2.13	0.48
5:Q:8:PHE:CD2	5:R:28:ARG:HD3	2.46	0.48
5:R:35:THR:N	5:R:43:PRO:CD	2.74	0.48
6:U:15:PRO:O	6:U:16:GLN:C	2.51	0.48
1:A:235:GLU:C	1:A:237:GLY:H	2.15	0.48
1:A:421:SER:OG	1:A:423:TYR:HE1	1.97	0.48
1:A:446:ILE:HG13	1:A:447:SER:H	1.57	0.48
1:B:456:ASN:ND2	1:B:456:ASN:O	2.46	0.48
1:B:604:ASP:CG	1:B:605:GLY:H	2.16	0.48
1:B:720:LYS:O	1:B:720:LYS:HG2	2.08	0.48
1:C:96:MET:HE1	1:C:574:LEU:CD1	2.32	0.48
1:C:153:VAL:HG12	1:C:153:VAL:O	2.13	0.48
1:C:369:LEU:O	1:C:372:ASP:HB3	2.13	0.48
1:C:394:ASP:O	1:C:395:VAL:HG13	2.12	0.48
1:C:668:PRO:HG3	1:K:664:PRO:CG	2.43	0.48
1:C:716:HIS:ND1	1:C:717:THR:HG23	2.27	0.48
1:C:943:THR:CB	1:C:944:PRO:CD	2.90	0.48
1:D:320:ARG:HH21	1:D:597:LEU:HD11	1.78	0.48
1:D:527:ASP:O	1:D:528:PRO:C	2.50	0.48
1:D:731:TRP:HH2	1:D:874:PRO:O	1.95	0.48
1:D:804:GLN:HE22	1:F:551:GLY:CA	2.01	0.48
1:E:15:ILE:HD11	1:F:923:PHE:HB3	1.94	0.48
1:E:89:GLY:CA	1:J:351:GLN:OE1	2.60	0.48
1:E:586:ARG:HH11	1:E:591:MET:CG	2.26	0.48
1:E:767:LEU:O	1:E:771:LEU:CB	2.61	0.48
1:E:922:VAL:CG2	1:E:942:ARG:HG3	2.43	0.48
1:F:389:ASP:N	1:F:389:ASP:OD2	2.45	0.48
1:F:661:THR:HG22	1:F:909:PRO:HD3	1.94	0.48
1:F:726:ASP:CG	1:J:670:ARG:NH1	2.65	0.48
1:F:827:GLY:C	1:F:828:PHE:CD1	2.86	0.48
1:F:878:ASN:ND2	1:F:880:MET:HB2	2.27	0.48
1:G:43:ASN:HD22	1:G:44:LYS:H	1.59	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:199:VAL:CG2	1:G:200:GLY:H	2.24	0.48
1:G:323:TYR:H	1:G:323:TYR:HD2	1.60	0.48
1:G:644:ASN:HB3	1:G:925:VAL:HG12	1.95	0.48
1:G:647:LEU:HD11	1:G:919:LEU:HD11	1.95	0.48
1:H:26:PRO:C	1:H:29:VAL:HG12	2.33	0.48
1:H:57:THR:H	1:H:623:ALA:HB2	1.79	0.48
1:H:90:ASP:HA	1:H:576:PRO:HB3	1.96	0.48
1:H:239:GLN:CG	1:H:240:ALA:H	2.26	0.48
1:J:230:ALA:CB	1:J:288:VAL:CG2	2.92	0.48
1:J:358:LEU:HD21	1:J:947:ALA:HB1	1.75	0.48
1:J:384:TRP:O	1:J:385:ASN:HB2	2.12	0.48
1:J:593:LEU:H	1:J:593:LEU:CD2	2.17	0.48
1:J:639:HIS:HD2	1:L:28:LEU:CD2	2.13	0.48
1:K:546:ARG:O	1:K:549:LEU:HB3	2.13	0.48
1:L:387:ALA:HB3	1:L:546:ARG:HH21	1.78	0.48
1:L:656:ILE:HG23	1:L:656:ILE:O	2.13	0.48
2:N:329:LEU:CD1	2:N:330:PRO:HD2	2.42	0.48
2:N:518:THR:O	2:N:518:THR:CG2	2.60	0.48
4:M:122:GLU:C	4:M:124:VAL:H	2.17	0.48
5:P:39:ARG:NH1	5:P:41:VAL:CG2	2.75	0.48
5:R:1:MET:CE	5:R:1:MET:H1	2.25	0.48
6:V:2:SER:OG	6:V:200:PRO:HD3	2.13	0.48
1:B:79:LEU:CG	1:B:335:TYR:OH	2.60	0.48
1:B:137:THR:HG22	1:B:153:VAL:HG11	1.95	0.48
1:B:168:THR:C	1:B:170:GLN:H	2.16	0.48
1:B:288:VAL:O	1:B:289:ASN:C	2.49	0.48
1:B:737:LEU:HB3	1:B:739:THR:H	1.78	0.48
1:B:851:ILE:H	1:B:851:ILE:CD1	2.25	0.48
1:C:87:ALA:HA	1:C:578:SER:HA	1.94	0.48
1:C:88:VAL:HG11	1:C:576:PRO:HA	1.94	0.48
1:C:199:VAL:CG2	1:C:211:TYR:CE2	2.96	0.48
1:C:613:VAL:C	1:C:614:ASN:HD22	2.09	0.48
1:D:134:GLN:NE2	1:D:154:THR:HG21	2.29	0.48
1:D:152:ASP:HA	1:F:444:ASP:HA	1.95	0.48
1:D:214:ARG:HD3	1:D:284:TYR:HB2	1.95	0.48
1:D:424:GLN:O	1:E:261:PHE:HA	2.13	0.48
1:D:723:ILE:C	1:D:730:SER:HB3	2.27	0.48
1:D:756:VAL:HG23	1:D:757:ALA:N	2.28	0.48
1:D:828:PHE:CE1	1:F:125:ALA:CA	2.97	0.48
1:D:843:PRO:HD3	1:F:131:ASN:HD21	1.77	0.48
1:D:927:ARG:O	1:D:938:ALA:HA	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:13:MET:HG3	1:F:941:LEU:HD23	1.95	0.48
1:E:74:GLU:HG3	1:E:76:THR:HG23	1.93	0.48
1:E:571:ASN:O	1:E:643:PHE:CE2	2.66	0.48
1:E:831:TYR:HB2	1:E:838:GLN:HE21	0.48	0.48
1:F:99:THR:HG22	1:F:617:ALA:CA	2.43	0.48
1:F:334:MET:HE3	1:F:583:TRP:CD1	2.48	0.48
1:F:683:LEU:CD2	1:F:917:TYR:HB2	2.40	0.48
1:G:460:MET:HA	1:G:460:MET:CE	2.43	0.48
1:G:836:MET:HG2	1:G:837:ARG:N	2.28	0.48
1:H:620:PHE:HD1	1:I:778:TYR:CD2	2.31	0.48
1:I:328:ASP:HA	1:I:546:ARG:HH11	1.77	0.48
1:I:574:LEU:HA	1:I:930:GLN:HE22	1.78	0.48
1:I:919:LEU:CD2	1:I:919:LEU:O	2.61	0.48
1:J:239:GLN:HE21	1:J:240:ALA:N	1.93	0.48
1:J:764:ASP:C	1:J:767:LEU:H	2.17	0.48
1:J:789:ASP:O	1:J:789:ASP:CG	2.52	0.48
1:J:809:ILE:HD13	5:Q:42:LEU:HD11	1.90	0.48
1:K:229:PHE:CZ	1:L:849:PRO:HD3	2.48	0.48
1:K:726:ASP:N	1:K:900:ALA:O	2.46	0.48
1:K:922:VAL:HG12	1:K:944:PRO:HD2	1.95	0.48
1:L:126:PRO:HG2	1:L:129:ALA:HB2	1.94	0.48
1:L:198:GLN:C	1:L:200:GLY:H	2.16	0.48
1:L:409:ASN:HD21	1:L:464:LEU:HD12	1.78	0.48
1:L:526:LEU:HD22	1:L:527:ASP:N	2.26	0.48
2:N:82:VAL:HG21	2:N:487:GLN:HG3	1.95	0.48
5:P:9:GLU:CD	5:P:13:PHE:CB	2.82	0.48
6:V:2:SER:O	6:V:3:LYS:C	2.49	0.48
7:3:9:LEU:O	7:3:9:LEU:CD2	2.56	0.48
1:A:188:TYR:HA	1:A:192:THR:CB	2.15	0.48
1:A:193:PHE:CD1	1:A:193:PHE:O	2.66	0.48
1:A:202:GLU:O	1:A:206:GLU:OE1	2.31	0.48
1:A:256:ILE:HG23	1:A:256:ILE:O	2.14	0.48
1:A:355:VAL:HG22	1:A:355:VAL:O	2.13	0.48
1:B:103:ILE:HD12	1:B:560:ILE:HD11	1.95	0.48
1:B:117:SER:O	1:C:402:GLY:C	2.51	0.48
1:B:152:ASP:C	1:B:154:THR:N	2.66	0.48
1:B:460:MET:CE	1:C:460:MET:HG2	2.40	0.48
1:B:589:VAL:HG23	1:B:593:LEU:CD1	2.43	0.48
1:B:791:MET:O	1:B:791:MET:HE2	2.12	0.48
1:B:842:TYR:CD1	1:B:843:PRO:CD	2.88	0.48
1:C:66:LEU:HD11	1:C:619:PHE:CE1	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:134:GLN:CD	1:C:155:LYS:HE2	2.33	0.48
1:C:231:ARG:HB2	1:C:232:PRO:HD2	1.94	0.48
1:C:524:TRP:CZ3	1:C:802:SER:HA	2.49	0.48
1:C:828:PHE:N	1:C:828:PHE:CD1	2.82	0.48
1:D:413:PRO:HA	1:F:460:MET:HB2	1.95	0.48
1:D:711:THR:O	1:D:711:THR:HG23	2.13	0.48
1:D:822:GLN:O	1:D:822:GLN:CG	2.61	0.48
1:E:81:LYS:O	1:E:81:LYS:HG2	2.13	0.48
1:E:131:ASN:CG	1:E:225:CYS:HB2	2.34	0.48
1:E:155:LYS:HD2	1:E:261:PHE:CE1	2.43	0.48
1:E:194:GLN:C	1:E:196:GLU:H	2.17	0.48
1:E:204:TRP:CZ3	1:F:313:VAL:HA	2.49	0.48
1:E:223:LYS:HE2	1:E:292:THR:HG21	1.95	0.48
1:E:500:THR:HG21	1:E:502:GLU:HG2	1.94	0.48
1:E:551:GLY:HA3	1:E:556:VAL:HG21	1.95	0.48
1:E:696:ASP:OD1	1:E:696:ASP:N	2.46	0.48
1:E:760:ASN:ND2	1:E:862:LYS:O	2.46	0.48
1:E:837:ARG:HE	1:F:456:ASN:HD22	1.58	0.48
1:F:3:THR:O	1:F:5:SER:N	2.46	0.48
1:F:96:MET:HG2	1:F:572:LEU:O	2.13	0.48
1:F:187:ILE:O	1:F:189:ALA:N	2.45	0.48
1:F:417:THR:HG22	1:F:457:VAL:HG13	1.95	0.48
1:F:709:ASP:OD1	1:F:709:ASP:C	2.50	0.48
1:G:419:THR:HG23	1:G:451:GLN:HB3	1.95	0.48
1:H:200:GLY:O	1:H:201:GLU:C	2.51	0.48
1:H:571:ASN:H	1:H:571:ASN:HD22	1.55	0.48
1:H:633:MET:O	1:H:635:ARG:N	2.45	0.48
1:H:663:VAL:HG23	5:Q:17:LEU:HD21	1.95	0.48
1:H:685:THR:HG22	1:H:685:THR:O	2.12	0.48
1:H:707:TYR:O	1:H:709:ASP:N	2.44	0.48
1:H:723:ILE:HG22	1:H:731:TRP:HB3	1.95	0.48
1:I:384:TRP:HA	1:I:384:TRP:HE3	1.78	0.48
1:I:462:ILE:CG1	1:I:463:ASN:N	2.68	0.48
1:J:96:MET:O	1:J:96:MET:CG	2.61	0.48
1:J:104:ARG:HB3	1:J:104:ARG:NH1	2.28	0.48
1:J:134:GLN:HE21	1:J:154:THR:CG2	2.27	0.48
1:J:228:SER:HB2	1:J:290:LEU:CD1	2.44	0.48
1:J:410:TYR:HB2	1:J:412:PHE:CZ	2.48	0.48
1:J:415:ASN:HD22	1:J:415:ASN:H	1.61	0.48
1:J:554:ARG:HH11	1:J:554:ARG:CG	2.26	0.48
1:J:651:ASN:HD22	1:J:651:ASN:N	2.11	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:682:ARG:CZ	1:J:907:VAL:HG21	2.43	0.48
1:K:269:PRO:HG2	1:K:273:SER:HB2	1.93	0.48
1:K:416:GLY:C	1:K:417:THR:CG2	2.81	0.48
1:K:524:TRP:CG	1:K:525:SER:N	2.81	0.48
1:K:582:GLU:O	1:K:582:GLU:CG	2.61	0.48
1:K:584:ASN:ND2	1:K:584:ASN:N	2.56	0.48
1:K:868:ARG:HG3	1:K:868:ARG:NH1	2.28	0.48
1:K:885:LEU:HD12	1:K:923:PHE:CZ	2.46	0.48
1:L:118:GLY:HA2	1:L:318:PRO:CG	2.44	0.48
1:L:188:TYR:CD1	1:L:188:TYR:O	2.67	0.48
1:L:594:GLN:O	1:L:594:GLN:CG	2.35	0.48
1:L:656:ILE:HG23	1:L:914:THR:O	2.12	0.48
2:N:387:TRP:CZ3	2:N:491:VAL:CG1	2.97	0.48
4:M:199:LEU:H	4:M:229:ASN:HD21	1.59	0.48
5:P:35:THR:HA	5:P:43:PRO:CD	2.44	0.48
7:3:25:ILE:O	7:3:25:ILE:HG22	2.12	0.48
7:5:10:ALA:N	7:5:11:PRO:CD	2.76	0.48
1:A:662:ASN:HD21	1:A:904:THR:HG21	1.78	0.48
1:A:826:SER:C	1:A:828:PHE:H	2.17	0.48
1:B:103:ILE:HG23	1:B:610:PHE:HD2	1.78	0.48
1:B:134:GLN:OE1	1:B:151:LYS:NZ	2.45	0.48
1:B:138:LYS:HD3	1:B:147:VAL:HG11	1.95	0.48
1:B:159:VAL:HB	1:C:840:GLN:HG3	1.96	0.48
1:C:67:ARG:HB2	1:C:616:TYR:CE1	2.48	0.48
1:C:678:TRP:O	1:C:872:ARG:HB2	2.13	0.48
1:D:27:GLY:HA3	1:E:633:MET:HE1	1.94	0.48
1:D:71:VAL:HG12	1:D:71:VAL:O	2.13	0.48
1:D:211:TYR:CE1	1:F:454:LYS:HE2	2.48	0.48
1:D:282:ILE:O	1:D:282:ILE:HG13	2.13	0.48
1:D:411:CYS:HB3	1:F:462:ILE:HG13	1.95	0.48
1:D:439:GLU:O	1:D:440:TRP:C	2.51	0.48
1:E:152:ASP:O	1:E:153:VAL:HB	2.12	0.48
1:E:193:PHE:O	1:E:194:GLN:C	2.47	0.48
1:E:754:TYR:HA	1:E:763:LYS:HG3	1.94	0.48
1:E:756:VAL:CG2	1:E:763:LYS:HG2	2.44	0.48
1:F:115:PRO:HA	1:F:323:TYR:CD1	2.47	0.48
1:F:145:GLY:O	1:F:147:VAL:N	2.46	0.48
1:F:257:ASP:OD2	1:F:257:ASP:C	2.52	0.48
1:F:276:GLU:O	1:F:276:GLU:CG	2.62	0.48
1:F:403:VAL:CG2	1:F:465:GLN:HB3	2.19	0.48
1:F:503:TYR:C	1:F:505:ASN:N	2.67	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:586:ARG:HH21	1:F:591:MET:HG2	1.79	0.48
1:F:649:ALA:HB1	1:F:920:PHE:O	2.13	0.48
1:F:891:ASN:HD22	1:F:891:ASN:N	2.02	0.48
1:G:126:PRO:HG2	1:G:129:ALA:CB	2.43	0.48
1:G:409:ASN:OD1	1:G:409:ASN:N	2.40	0.48
1:G:893:LEU:O	1:G:899:HIS:NE2	2.44	0.48
1:H:57:THR:HG23	1:H:57:THR:O	2.13	0.48
1:H:241:LYS:CB	1:H:254:LEU:HD22	2.39	0.48
1:H:552:ASN:O	1:I:804:GLN:OE1	2.30	0.48
1:H:653:LEU:HD23	1:H:915:LEU:HD13	1.94	0.48
1:H:747:ARG:HD2	1:H:762:THR:CG2	2.43	0.48
1:H:846:PHE:HB3	1:H:847:PRO:HD2	1.93	0.48
1:I:211:TYR:HB2	1:I:281:ILE:CG2	2.43	0.48
1:I:278:LYS:HB2	1:I:280:ASP:OD1	2.14	0.48
1:I:852:GLY:C	1:I:854:THR:H	2.17	0.48
1:I:870:MET:O	1:I:871:TRP:C	2.51	0.48
1:J:46:ARG:NH1	1:K:925:VAL:HG13	2.28	0.48
1:J:276:GLU:N	1:L:440:TRP:CH2	2.81	0.48
1:J:774:TYR:HB3	1:J:788:LYS:HG2	1.95	0.48
1:K:94:LEU:O	1:K:95:ASP:O	2.31	0.48
1:K:296:HIS:CE1	1:K:317:MET:HG2	2.48	0.48
1:K:372:ASP:O	1:K:375:GLY:O	2.32	0.48
1:K:485:TYR:N	1:K:485:TYR:HD2	2.09	0.48
1:K:553:GLY:CA	1:L:804:GLN:HG3	2.43	0.48
1:K:745:ILE:HG22	1:K:746:LYS:N	2.28	0.48
1:K:942:ARG:HG3	1:K:945:PHE:O	2.13	0.48
1:L:83:ARG:HA	1:L:582:GLU:CB	2.34	0.48
1:L:96:MET:C	1:L:98:SER:N	2.66	0.48
1:L:328:ASP:O	1:L:329:ASN:HB2	2.12	0.48
1:L:415:ASN:OD1	1:L:417:THR:O	2.32	0.48
1:L:503:TYR:C	1:L:505:ASN:N	2.65	0.48
1:L:514:VAL:O	1:L:514:VAL:CG2	2.61	0.48
1:L:936:ILE:HG12	1:L:937:GLU:N	2.27	0.48
2:N:246:SER:HB2	2:N:248:LEU:HB2	1.95	0.48
2:N:441:THR:HG22	2:N:443:VAL:HG22	1.94	0.48
5:Q:104:LEU:O	5:Q:104:LEU:HG	2.14	0.48
1:A:24:LEU:O	4:M:19:SER:HB2	2.14	0.48
1:A:93:VAL:CG2	1:A:573:LEU:HG	2.44	0.48
1:A:107:LEU:HD11	1:A:607:SER:HB3	1.85	0.48
1:A:201:GLU:CD	1:A:201:GLU:N	2.66	0.48
1:A:680:PHE:CE2	1:A:873:ILE:HD11	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:25:SER:C	1:B:27:GLY:N	2.67	0.48
1:B:190:ASP:OD2	1:B:236:LYS:HB3	2.12	0.48
1:B:194:GLN:HG3	1:B:196:GLU:HG2	1.94	0.48
1:B:198:GLN:CG	1:C:839:GLY:HA2	2.41	0.48
1:B:456:ASN:OD1	1:C:198:GLN:NE2	2.46	0.48
1:B:589:VAL:HB	1:B:607:SER:OG	2.14	0.48
1:C:38:TYR:HH	7:2:24:GLU:HB2	1.79	0.48
1:C:107:LEU:HB3	1:C:558:PHE:HE2	1.79	0.48
1:C:214:ARG:HH12	1:C:241:LYS:NZ	2.12	0.48
1:C:558:PHE:C	1:C:558:PHE:CD1	2.87	0.48
1:D:140:LYS:O	1:D:140:LYS:CG	2.61	0.48
1:D:811:TYR:CE1	1:D:856:VAL:HB	2.49	0.48
1:D:905:PHE:CD2	1:D:916:LEU:HD21	2.48	0.48
1:D:951:THR:HG22	1:D:951:THR:O	2.13	0.48
1:E:13:MET:CG	1:F:941:LEU:HD23	2.43	0.48
1:E:194:GLN:C	1:E:196:GLU:N	2.66	0.48
1:E:455:GLY:CA	1:F:161:ALA:CB	2.92	0.48
1:E:555:TYR:CD2	1:E:555:TYR:N	2.81	0.48
1:E:716:HIS:CE1	1:E:717:THR:CG2	2.94	0.48
1:E:880:MET:HG3	1:E:881:SER:H	1.79	0.48
1:F:47:ASN:O	7:4:7:ALA:HB3	2.14	0.48
1:F:162:THR:HB	1:F:193:PHE:CE2	2.48	0.48
1:F:391:TYR:CE1	1:F:396:ARG:HB2	2.48	0.48
1:F:540:ASN:ND2	1:F:543:LEU:CB	2.73	0.48
1:F:824:ASN:O	1:F:825:ASN:HB3	2.14	0.48
1:G:16:ALA:O	1:G:17:GLY:O	2.30	0.48
1:G:262:ASP:OD1	1:G:263:VAL:O	2.31	0.48
1:G:567:PHE:CD1	1:G:645:ASP:HA	2.48	0.48
1:G:759:CYS:HB3	1:G:800:PRO:HB3	1.95	0.48
1:H:193:PHE:CZ	1:H:197:PRO:HD2	2.49	0.48
1:H:320:ARG:NH1	1:H:597:LEU:HD11	2.29	0.48
1:H:513:LEU:HD13	1:H:819:LEU:HD13	1.96	0.48
1:H:927:ARG:O	1:H:938:ALA:HA	2.13	0.48
1:I:66:LEU:HD12	1:I:66:LEU:N	2.28	0.48
1:I:425:GLY:HA3	1:I:444:ASP:HB2	1.93	0.48
1:I:926:VAL:HG23	1:I:940:TYR:CA	2.44	0.48
1:I:940:TYR:CD2	8:Z:9:UNK:CB	2.96	0.48
1:J:180:ALA:O	1:J:181:GLU:HB3	2.13	0.48
1:J:923:PHE:HB3	1:J:925:VAL:HG13	1.96	0.48
1:K:67:ARG:HH12	1:L:752:GLU:HB2	1.79	0.48
1:K:177:ASP:OD2	1:K:178:GLU:OE1	2.32	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:252:LYS:O	1:K:252:LYS:CG	2.59	0.48
1:K:370:LEU:HD13	1:K:646:TYR:CB	2.41	0.48
1:K:681:THR:HG21	1:K:712:PHE:HB3	1.95	0.48
1:K:803:ARG:CD	1:K:805:VAL:HG13	2.43	0.48
1:K:855:ALA:O	1:K:856:VAL:C	2.52	0.48
1:K:893:LEU:HD12	1:K:894:TYR:CE1	2.48	0.48
1:L:17:GLY:O	1:L:48:PRO:HG2	2.14	0.48
1:L:648:SER:C	1:L:922:VAL:HG22	2.34	0.48
1:L:680:PHE:N	1:L:680:PHE:CD1	2.81	0.48
1:L:817:VAL:HG12	1:L:817:VAL:O	2.13	0.48
4:M:84:ALA:O	4:M:85:ILE:HG23	2.13	0.48
5:P:12:LEU:HD13	5:P:17:LEU:CD2	2.38	0.48
5:S:77:LEU:C	5:S:79:SER:N	2.64	0.48
6:V:43:ARG:C	6:V:45:ASN:H	2.17	0.48
7:4:3:ASP:OD2	7:4:4:ILE:HD12	2.14	0.48
7:4:17:PRO:HG2	7:4:22:TRP:CD1	2.47	0.48
1:A:731:TRP:HD1	1:A:888:LEU:HD13	1.78	0.48
1:B:330:PHE:HB2	1:B:562:VAL:HG12	1.96	0.48
1:B:670:ARG:NH1	2:N:92:GLU:HG3	2.29	0.48
1:C:765:TRP:CZ2	1:C:871:TRP:HB3	2.47	0.48
1:C:820:PRO:HG2	1:C:821:PHE:CD1	2.49	0.48
1:D:445:ALA:HB2	1:D:449:GLN:HB2	1.95	0.48
1:D:619:PHE:O	1:D:621:PRO:HD3	2.14	0.48
1:D:664:PRO:CA	1:D:904:THR:HG23	2.43	0.48
1:D:754:TYR:O	1:D:763:LYS:N	2.45	0.48
1:E:84:PHE:O	1:E:581:TYR:O	2.30	0.48
1:E:195:PRO:HG2	1:F:823:HIS:CD2	2.48	0.48
1:E:369:LEU:HD23	7:3:4:ILE:HD12	1.96	0.48
1:E:392:ASP:OD2	1:E:539:ARG:HD3	2.13	0.48
1:E:678:TRP:HE1	1:E:903:MET:HE1	1.79	0.48
1:F:106:VAL:CG2	1:F:609:ARG:HH22	2.26	0.48
1:F:217:LYS:HA	1:F:285:THR:HG23	1.92	0.48
1:F:482:PRO:HD3	1:F:529:MET:CB	2.43	0.48
1:F:651:ASN:O	1:F:652:MET:HG2	2.14	0.48
1:F:664:PRO:HA	1:F:904:THR:HG22	1.95	0.48
1:F:705:ILE:CD1	1:F:708:LEU:CG	2.91	0.48
1:F:745:ILE:HG12	1:F:765:TRP:CD2	2.49	0.48
1:F:788:LYS:O	1:F:788:LYS:HG2	2.14	0.48
1:G:150:GLU:OE1	1:G:150:GLU:HA	2.14	0.48
1:G:443:ASP:C	1:G:444:ASP:O	2.52	0.48
1:H:258:PHE:HD2	1:H:282:ILE:CD1	2.24	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:300:LYS:HB3	1:H:300:LYS:NZ	2.29	0.48
1:H:374:LEU:HD23	1:H:374:LEU:C	2.33	0.48
1:H:517:TYR:CA	1:H:520:ILE:HG23	2.44	0.48
1:H:625:ASN:C	1:H:625:ASN:HD22	2.16	0.48
1:H:634:LEU:O	1:H:634:LEU:HG	2.13	0.48
1:H:846:PHE:CB	1:H:847:PRO:HD3	2.42	0.48
1:I:92:ARG:O	1:I:92:ARG:CG	2.62	0.48
1:I:134:GLN:HG2	1:I:154:THR:CG2	2.43	0.48
1:I:833:ALA:O	1:I:835:THR:N	2.47	0.48
1:J:167:ILE:HD12	1:J:282:ILE:HG22	1.94	0.48
1:J:204:TRP:HH2	1:K:128:GLY:O	1.97	0.48
1:J:277:TYR:O	1:L:440:TRP:CE3	2.66	0.48
1:J:319:ASN:HB2	1:J:505:ASN:HD21	1.78	0.48
1:J:403:VAL:O	1:J:403:VAL:HG23	2.11	0.48
1:J:419:THR:HB	1:J:453:CYS:HB2	1.95	0.48
1:J:635:ARG:HG2	1:J:931:PRO:O	2.14	0.48
1:J:650:ALA:HB2	1:J:942:ARG:HE	1.79	0.48
1:K:24:LEU:HB3	1:L:639:HIS:ND1	2.28	0.48
1:K:30:GLN:OE1	1:K:31:PHE:N	2.46	0.48
1:K:604:ASP:O	1:K:606:ALA:N	2.43	0.48
1:K:680:PHE:H	1:K:680:PHE:HD1	1.60	0.48
1:K:918:LEU:HD12	1:K:919:LEU:N	2.22	0.48
1:L:115:PRO:O	1:L:116:TYR:CB	2.61	0.48
2:N:378:VAL:HG23	2:N:379:THR:H	1.78	0.48
4:M:388:TRP:HA	4:M:390:PRO:HD2	1.96	0.48
5:R:39:ARG:NE	5:R:41:VAL:HG21	2.28	0.48
6:V:201:PHE:CB	6:V:208:TYR:CE2	2.80	0.48
1:A:19:ASP:CB	1:A:48:PRO:HD2	2.42	0.48
1:A:46:ARG:NH1	1:B:925:VAL:HG11	2.28	0.48
1:A:52:PRO:HG3	7:2:24:GLU:HB3	1.96	0.48
1:A:128:GLY:HA3	1:A:315:GLN:HG2	1.95	0.48
1:A:157:PHE:CZ	1:C:204:TRP:NE1	2.80	0.48
1:B:329:ASN:HB3	1:B:565:LYS:NZ	2.29	0.48
1:B:358:LEU:HD12	1:B:358:LEU:N	2.29	0.48
1:B:445:ALA:O	1:B:449:GLN:HB2	2.13	0.48
1:B:725:PHE:CZ	1:B:901:LEU:HD13	2.49	0.48
1:B:907:VAL:CG2	1:B:908:ASP:N	2.31	0.48
1:C:120:ALA:O	1:C:121:TYR:CG	2.67	0.48
1:C:221:LYS:HG2	1:C:305:ASP:O	2.13	0.48
1:C:474:TYR:OH	1:C:834:PRO:HG3	2.13	0.48
1:C:589:VAL:CG2	1:C:593:LEU:HD12	2.42	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:659:LYS:NZ	1:C:659:LYS:CB	2.76	0.48
1:C:734:ASN:C	1:C:736:ARG:H	2.16	0.48
1:C:867:ASP:OD2	1:C:867:ASP:N	2.46	0.48
1:D:470:LYS:HG3	1:D:516:ALA:CB	2.38	0.48
1:D:695:PHE:O	1:D:695:PHE:CG	2.66	0.48
1:D:707:TYR:HE1	1:D:917:TYR:CE1	2.32	0.48
1:D:808:GLU:HG3	1:D:814:TYR:CE2	2.49	0.48
1:E:55:ASP:O	1:E:623:ALA:HB2	2.13	0.48
1:E:134:GLN:CD	1:E:154:THR:OG1	2.52	0.48
1:E:428:ILE:HG13	1:F:260:TYR:CE1	2.49	0.48
1:E:626:THR:O	1:E:628:SER:N	2.47	0.48
1:E:922:VAL:CA	1:E:944:PRO:HD2	2.44	0.48
1:E:932:HIS:CE1	1:E:935:VAL:HG21	2.48	0.48
1:F:103:ILE:H	1:F:560:ILE:HD13	1.70	0.48
1:F:110:GLY:C	1:F:112:SER:H	2.15	0.48
1:F:194:GLN:O	1:F:196:GLU:N	2.46	0.48
1:F:355:VAL:O	1:F:355:VAL:HG12	2.13	0.48
1:F:633:MET:O	1:F:636:ASN:HB2	2.14	0.48
1:F:827:GLY:HA3	1:F:840:GLN:C	2.34	0.48
1:F:842:TYR:CG	1:F:843:PRO:HD2	2.48	0.48
1:F:893:LEU:CD2	1:J:949:ASN:HA	2.43	0.48
1:G:132:PRO:CB	1:G:158:GLY:O	2.59	0.48
1:G:149:GLN:HG3	1:G:149:GLN:O	2.13	0.48
1:G:191:LYS:HE3	1:G:191:LYS:HB2	1.61	0.48
1:G:822:GLN:HB2	1:G:846:PHE:HB2	1.95	0.48
1:H:167:ILE:HG22	1:H:168:THR:N	2.28	0.48
1:H:201:GLU:CG	1:H:202:GLU:H	2.26	0.48
1:I:343:GLY:O	1:I:355:VAL:HG13	2.12	0.48
1:I:581:TYR:HD2	1:I:582:GLU:H	1.60	0.48
1:I:705:ILE:HD11	1:I:708:LEU:HD11	1.95	0.48
1:I:938:ALA:HB3	8:Z:9:UNK:CB	2.44	0.48
1:J:167:ILE:CD1	1:J:282:ILE:HB	2.42	0.48
1:K:114:LYS:HG3	1:L:851:ILE:HD12	1.95	0.48
1:K:188:TYR:O	1:K:256:ILE:CD1	2.62	0.48
1:K:199:VAL:O	1:K:200:GLY:O	2.32	0.48
1:K:248:GLY:C	5:S:134:LYS:HZ1	2.17	0.48
1:K:678:TRP:CD1	1:K:903:MET:CE	2.96	0.48
1:K:687:GLU:O	1:K:699:PHE:HE1	1.93	0.48
1:K:808:GLU:OE1	1:K:808:GLU:N	2.43	0.48
1:K:951:THR:HG21	6:U:5:ILE:HD12	1.96	0.48
2:N:65:ASP:CG	2:N:91:ALA:HB2	2.32	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:203:PHE:CD2	2:N:233:VAL:HG12	2.49	0.48
4:M:272:THR:HG22	4:M:276:ILE:CD1	2.43	0.48
5:Q:14:SER:O	5:R:15:PRO:HB2	2.12	0.48
6:U:225:GLY:C	6:U:227:ASP:N	2.66	0.48
1:A:13:MET:HG3	1:B:925:VAL:HG23	1.94	0.48
1:A:196:GLU:CD	1:B:823:HIS:HB3	2.34	0.48
1:A:382:SER:CB	1:A:549:LEU:HD21	2.43	0.48
1:A:397:ILE:HA	1:A:525:SER:HB3	1.96	0.48
1:A:409:ASN:CB	1:C:467:ASN:HD21	2.23	0.48
1:B:83:ARG:CA	1:B:582:GLU:HB2	2.43	0.48
1:B:121:TYR:HE2	1:C:847:PRO:O	1.97	0.48
1:C:94:LEU:HD13	1:C:619:PHE:CD2	2.49	0.48
1:C:470:LYS:HE3	1:C:515:ASP:OD1	2.14	0.48
1:C:642:SER:CA	1:C:926:VAL:O	2.62	0.48
1:C:687:GLU:CB	1:C:701:TYR:CD2	2.96	0.48
1:C:715:ASN:OD1	1:C:869:VAL:O	2.32	0.48
1:C:799:GLN:HA	1:C:799:GLN:HE21	1.78	0.48
1:D:16:ALA:O	1:D:48:PRO:HG3	2.14	0.48
1:E:55:ASP:OD2	1:E:55:ASP:N	2.46	0.48
1:E:66:LEU:CD1	1:E:619:PHE:CE1	2.97	0.48
1:E:731:TRP:O	1:E:733:GLY:CA	2.62	0.48
1:E:791:MET:CE	1:E:868:ARG:HH22	2.26	0.48
1:E:924:ASP:HB3	1:E:942:ARG:HD3	1.95	0.48
1:F:137:THR:HG21	1:F:153:VAL:HB	1.95	0.48
1:F:526:LEU:O	1:F:529:MET:HE3	2.14	0.48
1:F:806:VAL:HG12	1:F:856:VAL:CG1	2.44	0.48
1:G:161:ALA:HB3	1:G:198:GLN:CD	2.34	0.48
1:G:620:PHE:O	1:G:622:MET:N	2.47	0.48
1:G:736:ARG:O	1:I:64:LEU:CB	2.60	0.48
1:H:58:THR:HB	1:H:622:MET:O	2.14	0.48
1:H:122:ASN:HA	1:I:825:ASN:ND2	2.28	0.48
1:H:388:VAL:O	1:H:388:VAL:CG1	2.59	0.48
1:H:424:GLN:HE21	1:I:264:PRO:HA	1.77	0.48
1:H:587:LYS:HD2	1:H:608:VAL:O	2.14	0.48
1:H:748:SER:OG	1:H:748:SER:O	2.30	0.48
1:H:749:VAL:HG21	5:R:51:TYR:HE2	1.78	0.48
1:I:549:LEU:O	1:I:549:LEU:HG	2.13	0.48
1:I:725:PHE:HE1	1:I:731:TRP:HB2	1.78	0.48
1:I:859:VAL:O	1:I:859:VAL:HG13	2.14	0.48
1:J:247:GLU:N	1:J:247:GLU:OE1	2.47	0.48
1:J:301:PRO:HB2	1:J:310:ILE:CG2	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:372:ASP:HB2	1:J:377:ARG:HG3	1.95	0.48
1:J:413:PRO:CG	1:J:417:THR:O	2.61	0.48
1:J:474:TYR:CD2	1:J:474:TYR:C	2.86	0.48
1:J:732:PRO:C	1:J:734:ASN:H	2.16	0.48
1:J:846:PHE:HB3	1:J:847:PRO:HD3	1.95	0.48
1:K:112:SER:HB2	1:K:501:TYR:CG	2.48	0.48
1:K:677:GLY:N	1:K:921:GLU:HB2	2.28	0.48
1:K:757:ALA:O	1:K:758:GLN:CB	2.60	0.48
1:K:869:VAL:HG22	1:K:870:MET:H	1.78	0.48
1:L:729:VAL:HG11	6:V:227:ASP:OD2	2.13	0.48
1:L:831:TYR:CE2	1:L:832:LEU:CD1	2.97	0.48
2:N:127:THR:O	2:N:127:THR:HG22	2.13	0.48
4:M:167:ARG:HG3	4:M:167:ARG:HH11	1.77	0.48
4:M:239:PRO:HD3	4:M:263:ILE:CD1	2.42	0.48
4:M:319:ILE:HD13	4:M:359:PRO:HG3	1.95	0.48
5:P:18:THR:HG23	5:P:19:THR:HG23	1.94	0.48
6:V:4:GLU:C	6:V:6:PRO:HD3	2.34	0.48
1:A:389:ASP:HB3	1:A:535:PHE:HD1	1.79	0.48
1:A:523:ARG:HG3	1:C:548:MET:HB2	1.96	0.48
1:A:707:TYR:CD2	1:A:708:LEU:N	2.81	0.48
1:A:761:MET:CE	1:A:766:PHE:CD1	2.92	0.48
1:A:866:CYS:SG	1:A:869:VAL:HG11	2.54	0.48
1:A:910:MET:HE2	1:A:914:THR:CG2	2.41	0.48
1:A:929:HIS:HB3	1:A:937:GLU:CB	2.43	0.48
1:B:396:ARG:NH1	1:B:396:ARG:HG3	2.29	0.48
1:B:731:TRP:HE1	1:B:888:LEU:HD11	1.79	0.48
1:C:441:GLU:OE1	1:C:446:ILE:HG22	2.13	0.48
1:C:530:ASP:OD1	1:C:865:LEU:HD21	2.13	0.48
1:C:629:THR:O	1:C:633:MET:HB3	2.14	0.48
1:D:92:ARG:HH21	1:D:624:HIS:CE1	2.32	0.48
1:D:134:GLN:HG3	1:D:135:TRP:N	2.29	0.48
1:D:169:ASN:ND2	1:F:432:ASN:HB2	2.15	0.48
1:D:503:TYR:C	1:D:505:ASN:H	2.18	0.48
1:D:649:ALA:HB1	1:D:920:PHE:O	2.13	0.48
1:D:804:GLN:HE21	1:F:551:GLY:CA	2.24	0.48
1:D:890:GLN:NE2	1:F:53:THR:OG1	2.47	0.48
1:E:19:ASP:HA	1:E:48:PRO:CG	2.43	0.48
1:E:101:PHE:CE2	1:E:581:TYR:HE2	2.26	0.48
1:E:134:GLN:CB	1:E:154:THR:OG1	2.62	0.48
1:E:323:TYR:HB2	1:E:596:SER:HB2	1.95	0.48
1:E:328:ASP:C	1:E:330:PHE:H	2.15	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:791:MET:SD	1:E:868:ARG:CZ	2.94	0.48
1:F:3:THR:O	1:F:4:PRO:C	2.51	0.48
1:F:241:LYS:HE3	1:F:286:GLU:OE2	2.13	0.48
1:F:662:ASN:O	1:F:664:PRO:HD3	2.14	0.48
1:G:16:ALA:O	1:G:48:PRO:HB2	2.13	0.48
1:G:17:GLY:C	7:6:19:MET:SD	2.93	0.48
1:G:204:TRP:CZ2	1:G:415:ASN:CB	2.83	0.48
1:G:421:SER:O	1:G:422:THR:OG1	2.29	0.48
1:G:572:LEU:HD13	1:G:928:VAL:HG11	1.95	0.48
1:G:629:THR:C	1:G:631:GLU:N	2.66	0.48
1:G:678:TRP:HE1	1:G:920:PHE:HE1	1.62	0.48
1:H:99:THR:O	1:H:99:THR:OG1	2.31	0.48
1:H:156:THR:CG2	1:H:309:GLU:OE2	2.62	0.48
1:H:371:LEU:HD23	1:H:371:LEU:C	2.33	0.48
1:H:449:GLN:HG3	1:H:450:ASN:H	1.78	0.48
1:H:623:ALA:O	1:H:626:THR:HG23	2.14	0.48
1:H:731:TRP:N	1:H:732:PRO:CD	2.77	0.48
1:H:787:TYR:CD1	1:H:787:TYR:C	2.86	0.48
1:I:74:GLU:HG2	1:I:81:LYS:CB	2.43	0.48
1:I:85:THR:O	1:I:87:ALA:N	2.46	0.48
1:I:328:ASP:CA	1:I:546:ARG:HH11	2.26	0.48
1:I:464:LEU:HD12	1:I:464:LEU:C	2.33	0.48
1:I:464:LEU:CD1	1:I:464:LEU:C	2.82	0.48
1:I:524:TRP:HZ3	1:I:863:LYS:HB3	1.78	0.48
1:I:549:LEU:HD23	1:I:549:LEU:C	2.33	0.48
1:I:620:PHE:O	1:I:622:MET:N	2.47	0.48
1:J:170:GLN:OE1	1:J:185:LYS:HE3	2.14	0.48
1:J:294:ASP:O	1:J:319:ASN:OD1	2.32	0.48
1:J:524:TRP:CD2	1:J:803:ARG:HD2	2.47	0.48
1:J:532:VAL:O	1:J:534:PRO:HD3	2.14	0.48
1:J:803:ARG:NE	1:J:861:GLN:HE21	2.12	0.48
1:K:38:TYR:CZ	1:L:56:VAL:CG1	2.97	0.48
1:K:75:ALA:HA	1:K:79:LEU:O	2.13	0.48
1:K:560:ILE:O	1:K:560:ILE:CG1	2.48	0.48
1:K:760:ASN:OD1	1:K:760:ASN:N	2.45	0.48
1:K:784:PRO:HD2	1:K:795:PHE:CD2	2.49	0.48
1:K:804:GLN:OE1	1:K:860:THR:CG2	2.60	0.48
1:L:546:ARG:HG2	1:L:546:ARG:NH1	2.27	0.48
1:L:787:TYR:C	1:L:789:ASP:H	2.16	0.48
7:2:17:PRO:CB	7:2:22:TRP:CZ2	2.96	0.48
7:3:9:LEU:HD22	7:3:11:PRO:HD2	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:94:LEU:O	1:A:574:LEU:O	2.31	0.47
1:A:151:LYS:HE2	1:A:218:LYS:HZ3	1.78	0.47
1:A:514:VAL:HG23	1:A:518:ILE:HD13	1.96	0.47
1:A:838:GLN:HB2	1:C:198:GLN:OE1	2.11	0.47
1:B:107:LEU:HG	1:B:108:ASP:N	2.29	0.47
1:B:111:PRO:HB3	1:C:853:GLN:HG3	1.94	0.47
1:B:524:TRP:CH2	1:B:863:LYS:HG2	2.48	0.47
1:B:674:ALA:N	1:B:943:THR:OG1	2.45	0.47
1:C:83:ARG:NH1	1:J:69:VAL:CG2	2.76	0.47
1:C:134:GLN:OE1	1:C:155:LYS:HE2	2.14	0.47
1:C:191:LYS:CG	1:C:194:GLN:NE2	2.72	0.47
1:C:199:VAL:C	1:C:201:GLU:H	2.11	0.47
1:C:231:ARG:CB	1:C:232:PRO:HD2	2.44	0.47
1:C:242:PHE:HE1	1:C:289:ASN:N	2.12	0.47
1:C:541:ALA:HA	1:C:544:ARG:HD3	1.96	0.47
1:C:651:ASN:HB3	1:C:919:LEU:HB2	1.97	0.47
1:C:683:LEU:HD12	1:C:707:TYR:HD1	1.77	0.47
1:C:749:VAL:HG12	1:C:750:ASP:OD1	2.14	0.47
1:C:807:ASP:OD2	1:C:809:ILE:CG1	2.62	0.47
1:D:406:GLU:OE1	1:F:474:TYR:CE2	2.67	0.47
1:D:567:PHE:CD1	1:D:567:PHE:C	2.87	0.47
1:D:691:LEU:HD21	1:D:707:TYR:CE2	2.49	0.47
1:D:699:PHE:HZ	1:D:705:ILE:HG21	1.79	0.47
1:D:731:TRP:CH2	1:D:874:PRO:O	2.67	0.47
1:E:32:ALA:HA	1:E:41:LEU:HD21	1.96	0.47
1:E:396:ARG:NH1	1:E:534:PRO:HG3	2.29	0.47
1:E:450:ASN:HB3	1:F:156:THR:HA	1.96	0.47
1:E:575:LEU:CB	1:E:576:PRO:HD2	2.29	0.47
1:F:198:GLN:C	1:F:200:GLY:N	2.67	0.47
1:F:305:ASP:CG	1:F:306:ASN:H	2.18	0.47
1:F:364:GLU:OE1	1:F:565:LYS:CE	2.62	0.47
1:F:369:LEU:HD12	1:F:646:TYR:HE1	1.80	0.47
1:F:488:THR:HG22	1:F:494:LEU:CD1	2.39	0.47
1:F:767:LEU:HD23	1:F:781:PHE:CZ	2.49	0.47
1:G:235:GLU:C	1:G:237:GLY:H	2.17	0.47
1:G:436:GLU:O	1:G:438:SER:N	2.47	0.47
1:H:135:TRP:CZ2	1:H:309:GLU:CG	2.96	0.47
1:H:514:VAL:HG22	1:H:518:ILE:CD1	2.41	0.47
1:I:500:THR:HG23	1:I:503:TYR:CB	2.44	0.47
1:J:12:TYR:O	1:J:13:MET:HE2	2.14	0.47
1:J:114:LYS:CB	1:K:851:ILE:HD12	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:812:LYS:O	1:J:812:LYS:CG	2.62	0.47
1:J:906:GLU:OE1	5:Q:24:TRP:NE1	2.46	0.47
1:J:950:ALA:O	8:X:7:UNK:HA	2.14	0.47
1:K:6:MET:SD	6:V:82:GLU:CG	3.01	0.47
1:K:47:ASN:O	7:8:7:ALA:HB1	2.13	0.47
1:K:263:VAL:HG13	1:K:264:PRO:HD2	1.96	0.47
1:K:665:ILE:HD11	1:K:918:LEU:HD22	1.95	0.47
1:K:676:ARG:C	1:K:875:PHE:HB3	2.26	0.47
1:L:38:TYR:O	1:L:38:TYR:CD1	2.67	0.47
1:L:113:PHE:CZ	1:L:115:PRO:CD	2.93	0.47
1:L:268:PRO:O	1:L:277:TYR:HD2	1.97	0.47
1:L:362:ASN:ND2	1:L:365:LEU:HB3	2.21	0.47
1:L:498:THR:CA	1:L:503:TYR:CD2	2.94	0.47
1:L:653:LEU:HD23	1:L:917:TYR:HD2	1.79	0.47
1:L:736:ARG:NH1	6:V:226:TYR:HH	2.10	0.47
2:N:195:LEU:HD12	2:N:195:LEU:N	2.29	0.47
4:M:144:PHE:HB2	4:M:186:PHE:CD2	2.48	0.47
4:M:232:LEU:O	4:M:236:LEU:HG	2.13	0.47
5:Q:12:LEU:O	5:Q:12:LEU:CG	2.60	0.47
6:U:90:LEU:O	6:U:91:LEU:C	2.52	0.47
7:6:17:PRO:HG2	7:6:22:TRP:HZ3	1.74	0.47
7:8:18:PHE:O	7:8:18:PHE:HD1	1.92	0.47
1:A:98:SER:HB3	1:B:778:TYR:O	2.13	0.47
1:A:415:ASN:HD21	1:A:418:GLY:HA2	1.78	0.47
1:A:428:ILE:HA	1:A:438:SER:HA	1.96	0.47
1:A:478:ALA:O	1:A:481:LEU:HG	2.14	0.47
1:A:508:VAL:HG23	1:A:834:PRO:HD3	1.96	0.47
1:A:761:MET:HE3	1:A:766:PHE:HB2	1.95	0.47
1:A:774:TYR:CD1	1:A:784:PRO:HB3	2.49	0.47
1:A:926:VAL:CB	1:A:940:TYR:CE2	2.89	0.47
1:B:833:ALA:HB1	1:B:834:PRO:HD2	1.96	0.47
1:C:35:THR:CB	7:2:24:GLU:OE1	2.63	0.47
1:C:139:GLU:CB	1:C:152:ASP:CB	2.92	0.47
1:C:321:PRO:CG	1:C:538:PRO:HB3	2.32	0.47
1:C:495:PRO:CD	1:C:503:TYR:HB2	2.44	0.47
1:C:562:VAL:HG12	1:C:563:PRO:O	2.14	0.47
1:C:685:THR:C	1:C:687:GLU:N	2.67	0.47
1:C:759:CYS:SG	1:C:800:PRO:HB3	2.54	0.47
1:D:166:ASN:O	1:D:173:LEU:HB3	2.14	0.47
1:D:670:ARG:NH1	1:D:670:ARG:CB	2.78	0.47
1:D:825:ASN:HB2	1:F:122:ASN:CA	2.42	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:52:PRO:HA	7:3:22:TRP:CZ3	2.49	0.47
1:E:203:ASN:CB	1:F:836:MET:SD	2.97	0.47
1:E:398:ILE:HG21	1:E:526:LEU:HD23	1.96	0.47
1:E:460:MET:CE	1:F:411:CYS:HB3	2.44	0.47
1:E:463:ASN:O	1:E:467:ASN:ND2	2.36	0.47
1:E:756:VAL:HG22	1:E:763:LYS:HG2	1.96	0.47
1:E:892:MET:O	1:E:896:ASN:HB3	2.14	0.47
1:E:939:VAL:HG13	6:U:108:LEU:CD2	2.42	0.47
1:F:657:PRO:HD3	5:R:12:LEU:HD21	1.95	0.47
1:G:137:THR:HG21	1:G:153:VAL:HB	1.96	0.47
1:G:162:THR:HG22	1:G:212:GLY:H	1.79	0.47
1:G:446:ILE:HG22	1:G:449:GLN:NE2	2.28	0.47
1:G:577:GLY:HA3	1:G:934:GLY:HA2	1.96	0.47
1:G:891:ASN:CG	1:G:892:MET:N	2.67	0.47
1:H:94:LEU:CD2	1:H:619:PHE:HE1	2.27	0.47
1:H:151:LYS:O	1:H:154:THR:CG2	2.62	0.47
1:H:424:GLN:CA	1:H:449:GLN:HG2	2.37	0.47
1:H:682:ARG:NH2	1:H:910:MET:CB	2.74	0.47
1:I:359:GLN:HE22	1:I:692:GLY:CA	2.17	0.47
1:I:398:ILE:CD1	1:I:398:ILE:C	2.61	0.47
1:I:517:TYR:CE2	1:I:824:ASN:ND2	2.82	0.47
1:I:731:TRP:O	1:I:732:PRO:C	2.47	0.47
1:I:788:LYS:HE2	1:I:788:LYS:HB3	1.53	0.47
1:J:102:ASP:CB	1:J:616:TYR:HE1	2.26	0.47
1:J:107:LEU:C	1:J:107:LEU:HD23	2.34	0.47
1:J:111:PRO:O	1:K:852:GLY:HA2	2.13	0.47
1:J:361:ARG:CZ	1:J:567:PHE:HE2	2.28	0.47
1:J:661:THR:O	1:J:906:GLU:HA	2.14	0.47
1:J:665:ILE:HG22	5:P:17:LEU:HD12	1.96	0.47
1:K:168:THR:C	1:K:170:GLN:N	2.68	0.47
1:K:268:PRO:HB3	1:K:274:GLY:C	2.26	0.47
1:K:561:GLN:HE22	1:L:756:VAL:HA	1.78	0.47
1:K:566:PHE:O	1:K:570:LYS:HB2	2.14	0.47
1:K:687:GLU:HB3	1:K:701:TYR:CE2	2.49	0.47
1:K:748:SER:HB3	1:K:760:ASN:CB	2.43	0.47
1:L:151:LYS:HE3	1:L:218:LYS:HD3	1.96	0.47
1:L:261:PHE:CE1	1:L:283:LEU:HD12	2.48	0.47
1:L:333:LEU:O	1:L:333:LEU:CD2	2.61	0.47
1:L:795:PHE:O	1:L:797:ASN:N	2.47	0.47
2:N:173:THR:C	2:N:175:ASP:H	2.15	0.47
2:N:230:HIS:CE1	2:N:376:PRO:HD2	2.40	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:3:GLN:O	4:M:4:GLN:HG3	2.14	0.47
4:M:237:ILE:O	4:M:237:ILE:HG13	2.13	0.47
6:U:51:ARG:O	6:U:51:ARG:CG	2.59	0.47
1:A:298:VAL:HG22	1:A:317:MET:CE	2.44	0.47
1:A:357:ASP:HB3	1:A:566:PHE:CZ	2.49	0.47
1:A:410:TYR:OH	1:C:836:MET:HA	2.15	0.47
1:A:647:LEU:HD11	1:A:919:LEU:HD21	1.96	0.47
1:B:59:ASP:OD1	1:B:60:ARG:N	2.47	0.47
1:B:131:ASN:N	1:B:225:CYS:CB	2.76	0.47
1:B:339:THR:HG22	1:B:339:THR:O	2.14	0.47
1:B:360:ASP:OD1	1:B:942:ARG:NH1	2.45	0.47
1:B:397:ILE:O	1:B:398:ILE:C	2.52	0.47
1:B:587:LYS:HG2	1:B:587:LYS:O	2.14	0.47
1:C:104:ARG:HE	1:C:104:ARG:HB3	1.30	0.47
1:C:163:GLY:HA2	1:C:210:PHE:O	2.14	0.47
1:C:192:THR:HG22	1:C:193:PHE:H	1.77	0.47
1:C:218:LYS:CE	1:C:219:ASP:OD1	2.62	0.47
1:C:258:PHE:HB3	1:C:260:TYR:CE1	2.49	0.47
1:C:933:ARG:NH2	1:E:349:ALA:HA	2.29	0.47
1:D:193:PHE:CD1	1:D:194:GLN:O	2.67	0.47
1:D:197:PRO:HD3	1:E:831:TYR:CE1	2.49	0.47
1:D:804:GLN:NE2	1:F:551:GLY:C	2.68	0.47
1:E:135:TRP:CZ2	1:E:153:VAL:HG12	2.50	0.47
1:E:680:PHE:HB3	1:E:918:LEU:HD12	1.96	0.47
1:F:214:ARG:NH1	1:F:241:LYS:NZ	2.61	0.47
1:F:217:LYS:NZ	1:F:285:THR:CG2	2.77	0.47
1:F:424:GLN:HB3	1:F:446:ILE:O	2.14	0.47
1:F:650:ALA:O	1:F:652:MET:HG3	2.14	0.47
1:G:63:ARG:HD2	1:G:64:LEU:N	2.29	0.47
1:G:336:TYR:CE2	1:G:565:LYS:HD3	2.50	0.47
1:G:355:VAL:CG1	1:G:355:VAL:O	2.62	0.47
1:G:419:THR:HG23	1:G:419:THR:O	2.14	0.47
1:G:526:LEU:O	1:G:526:LEU:HG	2.14	0.47
1:G:566:PHE:HB3	1:G:569:ILE:CG2	2.43	0.47
1:G:662:ASN:CA	1:G:906:GLU:HB2	2.44	0.47
1:G:827:GLY:HA2	1:G:839:GLY:C	2.34	0.47
1:G:914:THR:O	1:G:915:LEU:HD12	2.15	0.47
1:G:922:VAL:HG12	1:G:944:PRO:HG2	1.96	0.47
1:H:229:PHE:C	1:H:229:PHE:CD2	2.87	0.47
1:H:445:ALA:N	1:I:152:ASP:C	2.68	0.47
1:H:480:TYR:O	1:H:481:LEU:C	2.51	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:552:ASN:O	1:I:804:GLN:CD	2.52	0.47
1:H:797:ASN:N	1:H:797:ASN:ND2	2.62	0.47
1:H:867:ASP:C	1:H:869:VAL:H	2.18	0.47
1:I:53:THR:H	7:5:25:ILE:CD1	2.24	0.47
1:I:77:THR:OG1	1:I:78:TYR:CD2	2.67	0.47
1:I:103:ILE:HG12	1:I:613:VAL:CG1	2.44	0.47
1:I:601:LEU:HD22	1:I:702:SER:CB	2.44	0.47
1:I:720:LYS:HZ2	5:S:24:TRP:HB2	1.77	0.47
1:I:827:GLY:HA2	1:I:839:GLY:O	2.14	0.47
1:J:113:PHE:HB2	1:J:324:ILE:HD12	1.94	0.47
1:J:203:ASN:OD1	1:K:836:MET:SD	2.72	0.47
1:J:429:THR:HA	1:J:439:GLU:OE2	2.14	0.47
1:J:913:PRO:CB	5:R:8:PHE:CD1	2.86	0.47
1:K:20:ALA:O	1:K:22:GLU:N	2.43	0.47
1:K:73:ARG:NH1	1:K:612:SER:CB	2.77	0.47
1:K:548:MET:HE3	1:L:523:ARG:HG3	1.97	0.47
1:K:731:TRP:CE3	1:K:732:PRO:HD3	2.49	0.47
1:K:787:TYR:CD1	1:K:788:LYS:N	2.82	0.47
1:L:442:LYS:HG2	1:L:443:ASP:N	2.28	0.47
2:N:358:TYR:CD2	2:N:373:LEU:HD23	2.50	0.47
5:P:16:TYR:CE2	5:Q:18:THR:CG2	2.83	0.47
5:Q:14:SER:HG	5:R:12:LEU:HD11	1.76	0.47
5:Q:35:THR:HG23	5:Q:40:PRO:CB	1.85	0.47
5:R:91:VAL:HG13	5:R:92:PRO:HD2	1.96	0.47
5:S:41:VAL:O	5:S:41:VAL:CG1	2.59	0.47
6:U:5:ILE:HG22	6:U:49:SER:HA	1.96	0.47
6:U:57:GLU:OE1	6:U:58:GLN:N	2.48	0.47
6:U:81:GLN:O	6:U:82:GLU:C	2.53	0.47
1:A:29:VAL:HG12	1:A:30:GLN:N	2.29	0.47
1:A:204:TRP:CZ2	1:B:130:PRO:HD3	2.49	0.47
1:A:756:VAL:CG1	1:C:383:MET:SD	3.02	0.47
1:B:76:THR:HG22	1:B:77:THR:N	2.27	0.47
1:B:409:ASN:HD22	1:B:464:LEU:HB2	1.78	0.47
1:B:600:ASP:OD1	1:B:603:VAL:HG23	2.15	0.47
1:B:811:TYR:CE1	1:B:856:VAL:HB	2.49	0.47
1:B:837:ARG:NH1	1:C:459:ALA:H	2.12	0.47
1:C:79:LEU:HD12	1:C:335:TYR:CE2	2.48	0.47
1:C:315:GLN:CD	1:C:836:MET:HB3	2.34	0.47
1:C:372:ASP:OD1	1:C:372:ASP:C	2.53	0.47
1:C:659:LYS:NZ	1:C:659:LYS:HB2	2.29	0.47
1:D:723:ILE:HD13	1:D:903:MET:CE	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:121:TYR:HB2	1:E:227:GLY:HA2	1.95	0.47
1:E:222:MET:CE	1:E:307:SER:CA	2.93	0.47
1:E:445:ALA:CB	1:E:448:ARG:O	2.62	0.47
1:E:509:VAL:O	1:E:511:PRO:HD3	2.13	0.47
1:E:564:GLN:CG	1:E:581:TYR:OH	2.62	0.47
1:E:713:TYR:CE1	1:E:714:LEU:HB2	2.49	0.47
1:E:943:THR:HB	1:E:944:PRO:CD	2.43	0.47
1:F:126:PRO:HG2	1:F:129:ALA:HB2	1.96	0.47
1:F:222:MET:CE	1:F:311:ASN:CB	2.92	0.47
1:F:384:TRP:CD2	1:F:563:PRO:HG3	2.49	0.47
1:F:862:LYS:HB2	5:P:54:VAL:HG12	1.96	0.47
1:G:150:GLU:C	1:G:152:ASP:H	2.17	0.47
1:G:277:TYR:O	1:I:440:TRP:CH2	2.62	0.47
1:G:296:HIS:HE1	1:G:317:MET:HE3	1.79	0.47
1:G:313:VAL:C	1:I:203:ASN:ND2	2.68	0.47
1:G:399:GLU:O	1:G:400:ASN:HB3	2.14	0.47
1:G:795:PHE:HD2	1:I:379:ARG:HH22	1.61	0.47
1:H:64:LEU:HD13	1:I:736:ARG:HD2	1.96	0.47
1:H:242:PHE:O	1:H:255:ASP:HB3	2.14	0.47
1:H:423:TYR:CE2	1:I:281:ILE:CD1	2.95	0.47
1:H:481:LEU:HB3	1:H:485:TYR:CD2	2.50	0.47
1:H:659:LYS:O	1:H:659:LYS:CG	2.52	0.47
1:H:749:VAL:O	5:R:55:GLY:CA	2.62	0.47
1:H:773:HIS:HB3	1:H:774:TYR:CE2	2.48	0.47
1:I:261:PHE:O	1:I:280:ASP:HA	2.14	0.47
1:I:287:ASN:OD1	1:I:287:ASN:N	2.46	0.47
1:I:524:TRP:CZ3	1:I:863:LYS:HE3	2.49	0.47
1:I:774:TYR:CD1	1:I:774:TYR:N	2.74	0.47
1:I:919:LEU:HD23	1:I:919:LEU:C	2.34	0.47
1:J:28:LEU:HD13	1:J:28:LEU:C	2.34	0.47
1:J:243:LYS:CE	1:J:252:LYS:O	2.58	0.47
1:J:392:ASP:OD1	1:J:394:ASP:N	2.43	0.47
1:J:651:ASN:H	1:J:651:ASN:ND2	2.11	0.47
1:J:807:ASP:CB	1:J:859:VAL:HG12	2.44	0.47
1:J:918:LEU:HD21	1:J:920:PHE:CE2	2.49	0.47
1:J:925:VAL:CG1	1:L:46:ARG:NH2	2.47	0.47
1:K:190:ASP:O	1:K:192:THR:O	2.33	0.47
1:K:381:PHE:HB2	1:L:783:VAL:HG12	1.96	0.47
1:K:721:VAL:HG23	1:K:905:PHE:CD1	2.50	0.47
1:K:732:PRO:CG	1:K:743:PHE:CZ	2.98	0.47
1:L:156:THR:CG2	1:L:157:PHE:H	2.05	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:21:LEU:CD1	4:M:29:ALA:HB2	2.42	0.47
4:M:269:ASP:OD1	4:M:294:THR:CG2	2.63	0.47
5:P:14:SER:O	5:Q:18:THR:N	2.47	0.47
5:P:46:SER:C	5:P:47:SER:OG	2.51	0.47
5:Q:129:GLN:C	5:Q:131:GLN:H	2.16	0.47
5:R:8:PHE:CD2	5:R:9:GLU:HB3	2.44	0.47
5:R:27:VAL:O	5:R:28:ARG:HG2	2.13	0.47
5:S:45:ASN:O	5:S:46:SER:C	2.52	0.47
7:5:25:ILE:HG22	7:5:25:ILE:O	2.15	0.47
1:A:284:TYR:HB3	1:A:286:GLU:OE2	2.14	0.47
1:A:424:GLN:O	1:A:425:GLY:O	2.33	0.47
1:A:639:HIS:HB2	1:C:24:LEU:HD23	1.96	0.47
1:A:748:SER:O	1:A:749:VAL:HB	2.14	0.47
1:B:323:TYR:O	1:B:596:SER:CB	2.62	0.47
1:B:364:GLU:O	1:B:368:GLN:HB2	2.14	0.47
1:B:818:THR:HG22	1:B:820:PRO:HD2	1.97	0.47
1:B:948:GLY:C	1:B:950:ALA:H	2.13	0.47
1:C:135:TRP:CZ3	1:C:309:GLU:OE1	2.67	0.47
1:C:281:ILE:HG22	1:C:281:ILE:O	2.14	0.47
1:C:445:ALA:CA	1:C:449:GLN:HB2	2.44	0.47
1:C:731:TRP:HE3	1:C:732:PRO:CD	2.26	0.47
1:D:239:GLN:O	1:D:241:LYS:HG2	2.15	0.47
1:D:440:TRP:CH2	1:E:276:GLU:HB2	2.49	0.47
1:D:644:ASN:HD22	1:F:46:ARG:CD	2.27	0.47
1:E:70:PRO:HA	1:E:84:PHE:HD2	1.79	0.47
1:E:441:GLU:HB3	1:E:446:ILE:HG21	1.96	0.47
1:F:235:GLU:OE2	1:F:236:LYS:N	2.48	0.47
1:F:281:ILE:HG22	1:F:281:ILE:O	2.14	0.47
1:F:348:GLN:HE21	1:F:349:ALA:N	2.12	0.47
1:F:377:ARG:HB3	1:F:388:VAL:HG21	1.97	0.47
1:F:607:SER:O	1:F:609:ARG:N	2.47	0.47
1:F:893:LEU:O	1:F:899:HIS:HE1	1.97	0.47
1:G:707:TYR:CD1	1:G:917:TYR:CE1	3.01	0.47
1:G:731:TRP:HH2	1:G:876:SER:O	1.98	0.47
1:G:891:ASN:ND2	1:G:892:MET:N	2.61	0.47
1:H:26:PRO:O	1:H:29:VAL:HG12	2.15	0.47
1:H:108:ASP:H	1:H:607:SER:HB2	1.77	0.47
1:H:317:MET:HB2	1:H:318:PRO:HD2	1.97	0.47
1:H:485:TYR:CE2	1:H:528:PRO:HB3	2.49	0.47
1:H:756:VAL:HG21	1:H:763:LYS:HA	1.95	0.47
1:H:818:THR:HG22	1:H:820:PRO:HD2	1.91	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:217:LYS:HB2	1:I:286:GLU:HA	1.97	0.47
1:I:358:LEU:HD22	1:I:358:LEU:N	2.29	0.47
1:I:401:HIS:O	1:I:402:GLY:C	2.52	0.47
1:I:503:TYR:O	1:I:505:ASN:N	2.39	0.47
1:I:648:SER:HB3	1:I:924:ASP:HB2	1.97	0.47
1:J:384:TRP:O	1:J:385:ASN:CB	2.63	0.47
1:J:438:SER:HB3	1:K:278:LYS:CB	2.42	0.47
1:J:532:VAL:HG12	1:J:533:ASN:N	2.30	0.47
1:J:545:TYR:O	1:J:547:SER:N	2.45	0.47
1:K:96:MET:HG2	1:K:572:LEU:HD21	1.97	0.47
1:K:410:TYR:N	1:K:410:TYR:CD1	2.82	0.47
1:K:885:LEU:HD13	1:K:923:PHE:CZ	2.50	0.47
1:L:52:PRO:HB2	1:L:56:VAL:HG22	1.92	0.47
1:L:215:ALA:HB2	1:L:283:LEU:HD22	1.96	0.47
1:L:240:ALA:C	1:L:288:VAL:HG12	2.35	0.47
1:L:645:ASP:OD2	1:L:646:TYR:N	2.47	0.47
1:L:653:LEU:HD12	1:L:653:LEU:N	2.28	0.47
1:L:862:LYS:O	1:L:863:LYS:HB2	2.14	0.47
2:N:69:LEU:HD22	2:N:79:LEU:CD1	2.43	0.47
2:N:354:TRP:HH2	2:N:373:LEU:CB	2.27	0.47
2:N:432:GLN:NE2	2:N:458:ALA:HB2	2.29	0.47
5:R:95:ILE:O	5:R:99:GLU:OE2	2.32	0.47
1:A:22:GLU:OE1	7:2:19:MET:HE1	2.15	0.47
1:A:730:SER:O	1:A:731:TRP:C	2.53	0.47
1:B:130:PRO:CB	1:B:312:LEU:CD1	2.92	0.47
1:B:310:ILE:HG13	1:B:311:ASN:N	2.29	0.47
1:B:453:CYS:O	1:B:455:GLY:N	2.42	0.47
1:C:58:THR:HB	1:C:621:PRO:O	2.15	0.47
1:C:115:PRO:HA	1:C:323:TYR:CE1	2.49	0.47
1:C:300:LYS:NZ	1:C:300:LYS:CB	2.77	0.47
1:C:524:TRP:HE1	1:C:803:ARG:NH1	2.13	0.47
1:C:543:LEU:HD13	1:C:594:GLN:OE1	2.14	0.47
1:C:721:VAL:HG12	1:C:905:PHE:HD1	1.78	0.47
1:C:851:ILE:HD13	1:C:851:ILE:H	1.79	0.47
1:C:916:LEU:O	1:C:916:LEU:HD23	2.15	0.47
1:D:211:TYR:CD1	1:F:454:LYS:HE2	2.49	0.47
1:D:243:LYS:O	1:D:244:PRO:C	2.53	0.47
1:D:623:ALA:C	1:D:625:ASN:N	2.67	0.47
1:E:19:ASP:C	1:E:47:ASN:HB3	2.34	0.47
1:E:52:PRO:HD3	7:3:23:ASN:CG	2.24	0.47
1:E:587:LYS:HG3	1:E:608:VAL:HG23	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:675:PHE:N	1:E:944:PRO:HG3	2.29	0.47
1:E:794:PHE:HA	1:E:869:VAL:HG21	1.97	0.47
1:F:6:MET:CE	1:F:10:TRP:HE1	2.27	0.47
1:F:66:LEU:HD12	1:F:619:PHE:CE1	2.50	0.47
1:F:119:THR:HG22	1:F:226:TYR:CZ	2.49	0.47
1:F:644:ASN:O	1:F:645:ASP:C	2.52	0.47
1:G:106:VAL:HG22	1:G:557:PRO:HB3	1.97	0.47
1:G:188:TYR:HE1	1:G:256:ILE:HD13	1.76	0.47
1:G:205:GLN:HG3	1:H:310:ILE:HG22	1.96	0.47
1:G:687:GLU:C	1:G:699:PHE:HE1	2.17	0.47
1:H:105:GLY:O	1:H:558:PHE:CD1	2.67	0.47
1:H:192:THR:O	1:H:193:PHE:CB	2.62	0.47
1:H:437:GLU:O	1:I:278:LYS:CE	2.59	0.47
1:H:508:VAL:HG21	1:H:833:ALA:HB2	1.96	0.47
1:H:589:VAL:HG11	1:H:606:ALA:CB	2.45	0.47
1:H:704:SER:OG	1:H:711:THR:HG21	2.14	0.47
1:H:732:PRO:HG3	1:H:743:PHE:CZ	2.48	0.47
1:H:771:LEU:HD23	1:H:771:LEU:HA	1.76	0.47
1:H:950:ALA:CB	1:J:892:MET:HE1	2.44	0.47
1:I:590:ASN:O	1:I:590:ASN:OD1	2.32	0.47
1:I:746:LYS:HD2	1:I:760:ASN:ND2	2.26	0.47
1:J:152:ASP:CA	1:L:445:ALA:N	2.76	0.47
1:J:172:LEU:CB	1:J:193:PHE:CE1	2.92	0.47
1:J:358:LEU:C	1:J:360:ASP:H	2.18	0.47
1:J:362:ASN:HD21	1:J:365:LEU:HB3	1.80	0.47
1:J:384:TRP:CE3	1:J:384:TRP:CA	2.97	0.47
1:J:524:TRP:NE1	1:J:803:ARG:HD2	2.30	0.47
1:K:30:GLN:OE1	1:K:30:GLN:C	2.52	0.47
1:K:474:TYR:CD2	1:L:407:LEU:HG	2.49	0.47
1:K:818:THR:CG2	1:K:819:LEU:H	2.24	0.47
1:L:17:GLY:O	1:L:48:PRO:CG	2.63	0.47
1:L:33:ARG:NH1	7:9:12:ARG:HD3	2.27	0.47
1:L:113:PHE:CZ	1:L:115:PRO:HG3	2.49	0.47
1:L:235:GLU:N	1:L:235:GLU:OE1	2.47	0.47
1:L:262:ASP:OD2	1:L:279:ALA:HB3	2.13	0.47
1:L:580:THR:HG23	1:L:580:THR:O	2.15	0.47
6:U:215:ASN:ND2	6:U:215:ASN:N	2.63	0.47
6:V:55:LEU:HD23	6:V:55:LEU:HA	1.56	0.47
7:8:16:ARG:HA	7:8:22:TRP:O	2.15	0.47
1:A:78:TYR:C	1:A:78:TYR:CD1	2.88	0.47
1:A:234:ASN:C	1:A:236:LYS:H	2.18	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:412:PHE:O	1:C:460:MET:HB2	2.13	0.47
1:A:438:SER:OG	1:B:278:LYS:HD2	2.14	0.47
1:A:533:ASN:HA	1:A:713:TYR:CE1	2.49	0.47
1:A:729:VAL:HG12	1:A:730:SER:N	2.29	0.47
1:A:755:ASN:HB2	1:A:759:CYS:O	2.15	0.47
1:A:842:TYR:CD1	1:A:843:PRO:CD	2.98	0.47
1:B:88:VAL:HG13	1:B:576:PRO:CA	2.45	0.47
1:B:160:ALA:HB1	1:B:212:GLY:C	2.35	0.47
1:B:185:LYS:O	1:B:186:ASP:O	2.33	0.47
1:B:189:ALA:HA	1:B:256:ILE:HD11	1.97	0.47
1:B:201:GLU:HB3	1:C:838:GLN:OE1	2.14	0.47
1:B:204:TRP:CZ3	1:C:313:VAL:HG13	2.49	0.47
1:B:233:THR:O	1:C:815:LYS:HE3	2.15	0.47
1:B:241:LYS:HD2	1:B:256:ILE:HD11	1.96	0.47
1:B:362:ASN:OD1	1:B:362:ASN:N	2.46	0.47
1:B:524:TRP:CG	1:B:803:ARG:HG2	2.50	0.47
1:B:543:LEU:O	1:B:545:TYR:N	2.48	0.47
1:B:718:PHE:CZ	1:B:916:LEU:HD11	2.50	0.47
1:B:926:VAL:O	1:B:926:VAL:HG13	2.15	0.47
1:B:933:ARG:CZ	4:M:92:LEU:HD23	2.43	0.47
1:C:60:ARG:HG3	6:U:93:ARG:HH11	1.79	0.47
1:C:134:GLN:OE1	1:C:154:THR:CG2	2.62	0.47
1:C:217:LYS:HZ1	1:C:257:ASP:CG	2.17	0.47
1:C:329:ASN:HD21	1:C:367:TYR:HE2	1.62	0.47
1:C:424:GLN:NE2	1:C:446:ILE:O	2.47	0.47
1:C:462:ILE:CG1	1:C:463:ASN:N	2.76	0.47
1:C:676:ARG:HG2	1:C:921:GLU:HB3	1.96	0.47
1:C:682:ARG:NH2	1:C:910:MET:CB	2.75	0.47
1:C:748:SER:O	1:C:749:VAL:HB	2.14	0.47
1:D:25:SER:HB3	1:D:28:LEU:HB3	1.96	0.47
1:D:29:VAL:CG1	1:D:30:GLN:H	2.28	0.47
1:D:69:VAL:CG1	1:D:70:PRO:HD2	2.42	0.47
1:D:295:THR:OG1	1:D:295:THR:CA	2.55	0.47
1:D:420:ASN:N	1:D:420:ASN:OD1	2.47	0.47
1:D:463:ASN:ND2	1:D:466:ALA:N	2.60	0.47
1:D:575:LEU:HB3	1:D:576:PRO:CD	2.39	0.47
1:D:648:SER:HB3	7:4:5:ASN:HD22	1.79	0.47
1:D:733:GLY:C	1:D:735:ASP:H	2.17	0.47
1:D:744:GLU:O	1:D:765:TRP:HB2	2.15	0.47
1:D:811:TYR:HD1	1:D:857:PRO:HD2	1.79	0.47
1:D:929:HIS:HB3	1:D:937:GLU:CG	2.43	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:6:MET:HE3	1:E:6:MET:C	2.35	0.47
1:E:141:GLN:NE2	1:E:148:GLN:HB3	2.30	0.47
1:E:162:THR:CA	1:E:199:VAL:HG23	2.44	0.47
1:E:396:ARG:HD3	1:E:396:ARG:C	2.35	0.47
1:E:457:VAL:O	1:E:457:VAL:HG23	2.15	0.47
1:E:530:ASP:OD2	1:E:863:LYS:HE3	2.14	0.47
1:E:546:ARG:HH11	1:E:546:ARG:HB2	1.79	0.47
1:E:723:ILE:HD11	1:E:873:ILE:CD1	2.43	0.47
1:E:731:TRP:CZ2	1:E:875:PHE:HA	2.50	0.47
1:E:808:GLU:HG3	1:E:814:TYR:CE2	2.50	0.47
1:F:68:PHE:CZ	1:F:86:LEU:HD23	2.49	0.47
1:F:69:VAL:CG2	1:F:70:PRO:CD	2.90	0.47
1:F:391:TYR:HB3	1:F:534:PRO:HB2	1.97	0.47
1:F:396:ARG:NH1	1:F:396:ARG:HG2	2.27	0.47
1:F:482:PRO:O	1:F:484:SER:N	2.47	0.47
1:F:589:VAL:HG23	1:F:593:LEU:CD1	2.44	0.47
1:F:725:PHE:O	1:F:900:ALA:O	2.32	0.47
1:F:776:ILE:O	1:F:776:ILE:HG22	2.15	0.47
1:G:50:VAL:CG1	1:H:890:GLN:HE22	2.20	0.47
1:G:67:ARG:CD	1:G:616:TYR:CE2	2.97	0.47
1:G:103:ILE:HD12	1:G:103:ILE:N	2.24	0.47
1:G:152:ASP:OD1	1:I:444:ASP:N	2.47	0.47
1:G:157:PHE:CE1	1:I:204:TRP:CH2	3.02	0.47
1:G:204:TRP:NE1	1:G:415:ASN:HB3	2.29	0.47
1:G:327:ARG:NH1	1:G:327:ARG:CG	2.77	0.47
1:G:356:VAL:HG12	1:G:940:TYR:CZ	2.44	0.47
1:G:498:THR:O	1:G:498:THR:HG22	2.13	0.47
1:G:592:ILE:H	1:G:592:ILE:HG13	1.51	0.47
1:G:600:ASP:OD2	1:G:700:VAL:HB	2.14	0.47
1:G:622:MET:O	1:G:623:ALA:C	2.53	0.47
1:G:718:PHE:O	1:G:745:ILE:HB	2.14	0.47
1:G:752:GLU:O	1:G:752:GLU:CG	2.39	0.47
1:H:78:TYR:N	1:H:78:TYR:CD1	2.82	0.47
1:H:200:GLY:O	1:H:202:GLU:C	2.53	0.47
1:H:256:ILE:CG2	1:H:257:ASP:H	2.26	0.47
1:H:266:GLY:H	1:H:276:GLU:CB	2.27	0.47
1:H:366:SER:CA	1:H:647:LEU:HB2	2.43	0.47
1:H:377:ARG:HH11	1:H:377:ARG:CB	2.26	0.47
1:H:514:VAL:O	1:H:514:VAL:HG13	2.15	0.47
1:H:749:VAL:HG21	5:R:51:TYR:CE2	2.50	0.47
1:I:247:GLU:C	1:I:249:GLU:H	2.18	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:571:ASN:N	1:I:571:ASN:HD22	2.12	0.47
1:I:749:VAL:H	5:S:55:GLY:CA	2.22	0.47
1:I:755:ASN:HB3	1:I:759:CYS:O	2.15	0.47
1:J:3:THR:HG1	1:K:892:MET:HE2	1.61	0.47
1:J:200:GLY:C	1:J:202:GLU:N	2.67	0.47
1:J:369:LEU:N	1:J:369:LEU:CD1	2.77	0.47
1:J:414:LEU:CD1	1:K:837:ARG:CZ	2.93	0.47
1:J:534:PRO:CD	1:J:713:TYR:CB	2.93	0.47
1:J:620:PHE:O	1:J:622:MET:N	2.47	0.47
1:J:720:LYS:HB2	1:J:906:GLU:CD	2.35	0.47
1:J:744:GLU:HB2	1:J:762:THR:CB	2.44	0.47
1:J:767:LEU:HD11	1:J:771:LEU:CD1	2.44	0.47
1:J:803:ARG:CG	1:J:803:ARG:NH1	2.76	0.47
1:J:818:THR:HG22	1:J:819:LEU:N	2.27	0.47
1:K:10:TRP:CE3	1:K:16:ALA:CB	2.98	0.47
1:K:14:HIS:CE1	1:K:23:TYR:CE1	3.03	0.47
1:K:35:THR:O	1:K:35:THR:OG1	2.32	0.47
1:K:65:THR:CG2	1:L:738:LEU:HD13	2.40	0.47
1:K:174:LEU:HD11	1:K:191:LYS:HE3	1.96	0.47
1:K:246:ASN:ND2	1:K:247:GLU:CA	2.78	0.47
1:K:348:GLN:O	1:K:348:GLN:HG2	2.09	0.47
1:K:377:ARG:NH1	1:K:388:VAL:CB	2.73	0.47
1:K:429:THR:C	1:K:430:ASN:CG	2.72	0.47
1:K:641:GLN:HB2	1:K:643:PHE:CZ	2.50	0.47
1:K:700:VAL:O	1:K:700:VAL:HG23	2.14	0.47
1:K:732:PRO:CB	1:K:743:PHE:CZ	2.98	0.47
1:K:811:TYR:CE2	1:K:813:ASP:O	2.68	0.47
1:L:367:TYR:CD2	1:L:565:LYS:HG2	2.49	0.47
1:L:384:TRP:CZ3	1:L:561:GLN:HB3	2.50	0.47
1:L:398:ILE:HD12	1:L:399:GLU:H	1.74	0.47
1:L:413:PRO:CG	1:L:417:THR:HA	2.32	0.47
1:L:649:ALA:CA	1:L:922:VAL:HG22	2.45	0.47
1:L:660:ALA:CB	5:Q:99:GLU:HG3	2.45	0.47
2:N:110:LEU:HD23	2:N:411:VAL:CG1	2.45	0.47
2:N:124:TYR:CE1	2:N:497:ARG:HG2	2.50	0.47
2:N:271:LEU:HD21	2:N:354:TRP:HD1	1.79	0.47
2:N:410:VAL:HG12	2:N:496:ARG:HH22	1.75	0.47
2:N:471:LEU:O	2:N:471:LEU:HG	2.15	0.47
4:M:100:ARG:C	4:M:102:GLY:H	2.16	0.47
4:M:323:VAL:HG12	4:M:323:VAL:O	2.14	0.47
4:M:388:TRP:CA	4:M:390:PRO:CD	2.92	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:16:TYR:CD1	5:Q:16:TYR:HB2	2.49	0.47
5:R:2:ASN:O	5:R:5:GLY:C	2.53	0.47
5:S:17:LEU:C	5:S:19:THR:N	2.68	0.47
5:S:73:THR:HG22	5:S:73:THR:O	2.15	0.47
6:U:33:TRP:O	6:U:33:TRP:CE3	2.63	0.47
6:U:209:PRO:CB	6:U:212:PHE:HD1	2.05	0.47
7:5:24:GLU:HG3	7:5:25:ILE:N	2.28	0.47
1:A:398:ILE:HD11	1:A:477:VAL:CG2	2.39	0.47
1:A:801:MET:CE	1:A:865:LEU:HB3	2.45	0.47
1:B:18:GLN:O	1:B:48:PRO:HD2	2.15	0.47
1:B:336:TYR:OH	1:B:565:LYS:HG3	2.14	0.47
1:B:701:TYR:CZ	1:B:703:GLY:HA3	2.50	0.47
1:C:13:MET:HB3	1:C:15:ILE:HG13	1.97	0.47
1:C:36:ASP:C	1:C:38:TYR:H	2.18	0.47
1:C:51:ALA:HB1	1:C:52:PRO:HD2	1.97	0.47
1:C:243:LYS:N	1:C:243:LYS:HD2	2.28	0.47
1:C:362:ASN:C	1:C:364:GLU:H	2.17	0.47
1:D:83:ARG:HD2	1:D:582:GLU:HG2	1.97	0.47
1:D:199:VAL:O	1:D:199:VAL:HG13	2.14	0.47
1:D:636:ASN:OD1	1:D:636:ASN:C	2.50	0.47
1:D:828:PHE:HE1	1:F:125:ALA:CB	2.27	0.47
1:D:860:THR:HG23	1:F:557:PRO:HD2	1.95	0.47
1:F:151:LYS:CG	1:F:154:THR:CB	2.84	0.47
1:F:328:ASP:OD1	1:F:328:ASP:C	2.53	0.47
1:F:396:ARG:CZ	1:F:865:LEU:HD11	2.45	0.47
1:F:611:ASP:N	1:F:611:ASP:OD2	2.47	0.47
1:F:629:THR:HG22	1:F:630:LEU:N	2.30	0.47
1:F:688:THR:HA	1:F:689:PRO:HD3	1.73	0.47
1:G:250:GLN:OE1	1:G:252:LYS:HE3	2.14	0.47
1:G:479:LEU:HD11	1:H:406:GLU:OE1	2.15	0.47
1:G:927:ARG:HH12	1:I:14:HIS:CE1	2.33	0.47
1:H:58:THR:OG1	1:H:624:HIS:HD2	1.94	0.47
1:H:61:SER:CB	1:I:734:ASN:HD21	2.26	0.47
1:H:74:GLU:OE2	1:H:81:LYS:HG2	2.15	0.47
1:H:890:GLN:HG2	1:H:890:GLN:O	2.15	0.47
1:I:33:ARG:C	1:I:35:THR:H	2.19	0.47
1:I:267:SER:CB	1:I:277:TYR:N	2.78	0.47
1:I:677:GLY:O	1:I:921:GLU:HG2	2.15	0.47
1:I:683:LEU:O	1:I:683:LEU:HD23	2.14	0.47
1:I:831:TYR:CB	1:I:838:GLN:HE21	2.17	0.47
1:I:880:MET:HB2	1:I:882:MET:CE	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:153:VAL:HG11	1:L:449:GLN:CG	2.25	0.47
1:J:250:GLN:HA	1:J:251:PRO:HD2	1.76	0.47
1:J:333:LEU:O	1:J:333:LEU:HG	2.13	0.47
1:K:63:ARG:CG	1:K:66:LEU:CD2	2.60	0.47
1:K:155:LYS:C	1:K:157:PHE:N	2.67	0.47
1:K:327:ARG:CG	1:K:327:ARG:NH1	2.76	0.47
1:K:665:ILE:HD12	1:K:918:LEU:CD2	2.45	0.47
1:L:229:PHE:CD2	1:L:229:PHE:C	2.87	0.47
1:L:494:LEU:HB3	1:L:503:TYR:HD1	1.80	0.47
1:L:608:VAL:HG22	1:L:609:ARG:HG3	1.97	0.47
1:L:688:THR:HG22	1:L:689:PRO:O	2.14	0.47
1:L:745:ILE:HG13	1:L:765:TRP:NE1	2.29	0.47
1:L:865:LEU:O	1:L:865:LEU:CD2	2.62	0.47
2:N:221:PRO:C	2:N:223:VAL:H	2.16	0.47
5:P:76:ARG:O	5:P:77:LEU:C	2.53	0.47
5:Q:28:ARG:HB2	5:Q:31:VAL:HG21	1.97	0.47
5:Q:129:GLN:O	5:Q:131:GLN:N	2.47	0.47
5:R:49:MET:CE	5:R:50:THR:HA	2.45	0.47
7:3:24:GLU:O	7:3:24:GLU:CG	2.63	0.47
7:5:13:HIS:O	7:5:14:GLY:O	2.33	0.47
1:A:126:PRO:HB3	1:B:461:GLU:OE2	2.14	0.47
1:A:409:ASN:HB3	1:C:467:ASN:OD1	2.14	0.47
1:A:456:ASN:ND2	1:C:837:ARG:C	2.69	0.47
1:A:480:TYR:CD1	1:A:537:HIS:HE1	2.33	0.47
1:A:555:TYR:CD1	1:A:555:TYR:N	2.83	0.47
1:A:681:THR:HG22	1:A:683:LEU:HD23	1.97	0.47
1:A:692:GLY:C	1:A:693:SER:OG	2.53	0.47
1:A:747:ARG:O	1:A:750:ASP:O	2.33	0.47
1:B:70:PRO:HA	1:B:84:PHE:HD2	1.80	0.47
1:B:173:LEU:HD13	1:B:185:LYS:HZ3	1.80	0.47
1:B:194:GLN:CG	1:B:197:PRO:HD3	2.38	0.47
1:B:405:ASP:OD2	1:B:465:GLN:HB2	2.15	0.47
1:B:543:LEU:C	1:B:545:TYR:N	2.69	0.47
1:B:790:ARG:HH11	1:B:790:ARG:CB	2.28	0.47
1:C:96:MET:HE2	1:C:574:LEU:CD1	2.15	0.47
1:C:288:VAL:O	1:C:290:LEU:N	2.48	0.47
1:D:85:THR:O	1:D:85:THR:CG2	2.57	0.47
1:D:237:GLY:HA3	1:E:817:VAL:HG13	1.97	0.47
1:D:733:GLY:HA2	1:D:740:PRO:O	2.14	0.47
1:E:121:TYR:CD2	1:E:229:PHE:HB2	2.50	0.47
1:E:449:GLN:CG	1:E:450:ASN:OD1	2.57	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:620:PHE:O	1:E:621:PRO:C	2.51	0.47
1:F:664:PRO:CB	5:P:18:THR:HG23	2.44	0.47
1:F:747:ARG:HH22	1:F:754:TYR:HD1	1.63	0.47
1:G:52:PRO:CB	1:G:56:VAL:HG21	2.45	0.47
1:G:140:LYS:HG3	1:G:147:VAL:HG22	1.97	0.47
1:G:734:ASN:ND2	1:I:61:SER:HA	2.30	0.47
1:G:773:HIS:CD2	1:G:794:PHE:H	2.33	0.47
1:H:104:ARG:O	1:H:104:ARG:HG3	2.15	0.47
1:H:138:LYS:HE2	1:H:149:GLN:OE1	2.15	0.47
1:H:201:GLU:HG2	1:H:202:GLU:N	2.28	0.47
1:H:235:GLU:C	1:H:237:GLY:H	2.18	0.47
1:H:321:PRO:HG2	1:H:538:PRO:HB3	1.96	0.47
1:H:471:SER:HA	1:I:407:LEU:HD11	1.97	0.47
1:H:498:THR:O	1:H:498:THR:CG2	2.61	0.47
1:I:116:TYR:CD1	1:I:116:TYR:C	2.88	0.47
1:I:167:ILE:CD1	1:I:282:ILE:HG12	2.45	0.47
1:I:225:CYS:O	1:I:228:SER:HB3	2.15	0.47
1:I:723:ILE:N	1:I:723:ILE:CD1	2.78	0.47
1:I:880:MET:HB2	1:I:882:MET:HE1	1.97	0.47
1:J:98:SER:CB	1:K:778:TYR:O	2.41	0.47
1:J:414:LEU:HD12	1:L:459:ALA:HB3	1.96	0.47
1:J:423:TYR:O	1:J:450:ASN:ND2	2.48	0.47
1:K:38:TYR:CE1	1:L:56:VAL:CG1	2.98	0.47
1:K:220:THR:O	1:K:222:MET:N	2.46	0.47
1:K:238:GLY:O	1:K:239:GLN:O	2.32	0.47
1:K:573:LEU:HB2	1:K:641:GLN:OE1	2.15	0.47
1:K:588:ASP:O	1:K:592:ILE:HG12	2.15	0.47
1:L:208:GLU:HB2	1:L:211:TYR:OH	2.15	0.47
1:L:717:THR:O	1:L:717:THR:OG1	2.26	0.47
3:O:7:VAL:O	3:O:7:VAL:HG12	2.13	0.47
4:M:15:GLN:O	4:M:15:GLN:HG3	2.14	0.47
4:M:201:GLN:C	4:M:203:PHE:H	2.19	0.47
5:S:35:THR:CA	5:S:43:PRO:HG2	2.45	0.47
1:A:19:ASP:O	1:A:21:SER:N	2.48	0.47
1:A:30:GLN:HA	1:A:33:ARG:HB3	1.95	0.47
1:A:524:TRP:CZ3	1:A:863:LYS:HG2	2.49	0.47
1:A:746:LYS:HA	1:A:760:ASN:O	2.14	0.47
1:B:3:THR:CB	1:B:4:PRO:CD	2.93	0.47
1:B:213:GLY:C	1:B:283:LEU:HD23	2.36	0.47
1:B:424:GLN:CA	1:B:449:GLN:HG2	2.45	0.47
1:B:495:PRO:HG2	1:B:503:TYR:CA	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:554:ARG:HH11	1:B:554:ARG:HG2	1.79	0.47
1:B:812:LYS:O	1:B:813:ASP:OD1	2.33	0.47
1:C:675:PHE:CA	1:C:944:PRO:HG3	2.45	0.47
1:D:155:LYS:HZ3	1:D:259:ALA:HB3	1.80	0.47
1:D:352:LEU:O	1:D:952:THR:HG22	2.15	0.47
1:D:644:ASN:ND2	1:F:46:ARG:NE	2.62	0.47
1:D:648:SER:CB	7:4:5:ASN:HD22	2.27	0.47
1:D:649:ALA:CB	1:D:919:LEU:HD12	2.45	0.47
1:D:761:MET:HG2	1:D:765:TRP:HD1	1.79	0.47
1:D:884:ALA:H	1:F:49:THR:HG22	1.79	0.47
1:E:10:TRP:HA	1:E:15:ILE:HG22	1.97	0.47
1:E:67:ARG:O	1:E:67:ARG:CG	2.53	0.47
1:E:162:THR:CB	1:E:193:PHE:CE2	2.97	0.47
1:E:214:ARG:HH11	1:E:214:ARG:HG2	1.80	0.47
1:E:450:ASN:CB	1:F:156:THR:HA	2.45	0.47
1:F:114:LYS:NZ	1:F:320:ARG:O	2.48	0.47
1:F:151:LYS:CB	1:F:154:THR:CB	2.93	0.47
1:F:187:ILE:C	1:F:189:ALA:H	2.17	0.47
1:F:362:ASN:ND2	1:F:365:LEU:HB2	2.12	0.47
1:F:664:PRO:HG3	5:P:19:THR:HG21	1.92	0.47
1:F:696:ASP:HB2	5:R:25:ALA:HB2	1.97	0.47
1:F:774:TYR:HB2	1:F:776:ILE:HD13	1.97	0.47
1:H:8:PRO:HA	1:H:11:ALA:HB3	1.97	0.47
1:H:449:GLN:HG3	1:H:450:ASN:N	2.29	0.47
1:H:924:ASP:O	1:H:925:VAL:HG12	2.14	0.47
1:J:279:ALA:CB	1:L:426:VAL:CG2	2.76	0.47
1:J:296:HIS:HD1	1:J:319:ASN:HB2	1.78	0.47
1:J:840:GLN:CB	1:L:159:VAL:HG12	2.45	0.47
1:J:925:VAL:HG21	1:L:13:MET:HG3	1.95	0.47
1:J:952:THR:HG22	1:J:952:THR:O	2.15	0.47
1:K:100:TYR:HE1	1:K:561:GLN:HG2	1.80	0.47
1:K:454:LYS:H	1:K:454:LYS:HG3	1.36	0.47
1:K:725:PHE:CD2	1:K:731:TRP:HB2	2.50	0.47
1:L:127:LYS:HE2	1:L:226:TYR:CZ	2.50	0.47
1:L:260:TYR:CD2	1:L:282:ILE:HG22	2.50	0.47
1:L:410:TYR:HB2	1:L:412:PHE:CZ	2.49	0.47
1:L:820:PRO:HG2	1:L:821:PHE:HD1	1.65	0.47
1:L:893:LEU:CD1	6:V:215:ASN:HB3	2.45	0.47
2:N:496:ARG:NH1	2:N:496:ARG:CG	2.76	0.47
4:M:327:VAL:HG12	4:M:327:VAL:O	2.15	0.47
5:R:72:MET:HA	5:R:75:THR:CG2	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:S:73:THR:HG23	5:S:76:ARG:HD2	1.95	0.47
7:5:16:ARG:HB3	7:5:22:TRP:O	2.14	0.47
7:6:7:ALA:O	7:6:8:SER:CB	2.62	0.47
7:7:17:PRO:HG2	7:7:22:TRP:CE2	2.50	0.47
1:A:127:LYS:HG3	1:B:408:PRO:HB3	1.96	0.46
1:A:241:LYS:HB2	1:A:254:LEU:HB3	1.98	0.46
1:A:649:ALA:HB3	1:A:919:LEU:CD1	2.45	0.46
1:B:258:PHE:N	1:B:258:PHE:HD1	2.14	0.46
1:B:682:ARG:CZ	1:B:910:MET:CG	2.88	0.46
1:B:837:ARG:O	1:B:837:ARG:HG3	2.15	0.46
1:C:263:VAL:HG12	1:C:265:GLY:H	1.80	0.46
1:C:518:ILE:HD12	1:C:526:LEU:HD21	1.97	0.46
1:C:629:THR:C	1:C:631:GLU:H	2.17	0.46
1:D:221:LYS:CB	1:D:305:ASP:OD2	2.57	0.46
1:D:399:GLU:OE1	1:D:523:ARG:HB2	2.15	0.46
1:D:443:ASP:OD1	1:E:150:GLU:CG	2.56	0.46
1:D:458:TYR:HA	1:F:837:ARG:NH1	2.30	0.46
1:D:634:LEU:O	1:D:636:ASN:N	2.45	0.46
1:D:649:ALA:CB	1:D:919:LEU:HD11	2.46	0.46
1:D:681:THR:CG2	1:D:712:PHE:CD1	2.91	0.46
1:D:718:PHE:O	1:D:745:ILE:HB	2.15	0.46
1:D:943:THR:OG1	1:D:944:PRO:CD	2.62	0.46
1:E:417:THR:OG1	1:F:159:VAL:HG21	2.15	0.46
1:E:782:HIS:O	1:E:782:HIS:ND1	2.49	0.46
1:F:161:ALA:N	1:F:198:GLN:HE22	2.12	0.46
1:F:331:VAL:O	1:F:331:VAL:HG23	2.15	0.46
1:F:428:ILE:HD11	1:F:431:GLY:O	2.15	0.46
1:G:106:VAL:HA	1:G:557:PRO:HA	1.96	0.46
1:G:140:LYS:HE2	1:G:147:VAL:CG2	2.45	0.46
1:H:151:LYS:HE2	1:H:218:LYS:HG2	1.97	0.46
1:H:329:ASN:HD21	1:H:377:ARG:NH2	2.12	0.46
1:H:369:LEU:HD13	1:H:369:LEU:H	1.79	0.46
1:H:417:THR:CB	1:I:159:VAL:HG21	2.45	0.46
1:H:589:VAL:HG23	1:H:593:LEU:CD1	2.44	0.46
1:H:653:LEU:CD2	1:H:915:LEU:HD22	2.45	0.46
1:H:812:LYS:HZ2	1:H:812:LYS:HA	1.80	0.46
1:H:892:MET:HB3	1:H:896:ASN:ND2	2.29	0.46
1:I:318:PRO:O	1:I:319:ASN:C	2.53	0.46
1:I:571:ASN:ND2	1:I:571:ASN:H	2.13	0.46
1:I:637:ASP:CA	1:I:929:HIS:HE1	2.24	0.46
1:J:282:ILE:CG1	1:J:283:LEU:N	2.78	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:664:PRO:CD	5:P:12:LEU:HD23	2.44	0.46
1:J:730:SER:O	1:J:733:GLY:CA	2.58	0.46
1:J:820:PRO:HG2	1:J:821:PHE:CE1	2.49	0.46
1:K:398:ILE:HD11	1:K:477:VAL:HG11	1.97	0.46
1:L:218:LYS:CG	1:L:219:ASP:N	2.75	0.46
1:L:296:HIS:NE2	1:L:317:MET:CE	2.78	0.46
1:L:459:ALA:O	1:L:460:MET:HB2	2.16	0.46
1:L:510:ALA:HB1	1:L:832:LEU:O	2.10	0.46
1:L:707:TYR:CD2	1:L:707:TYR:C	2.88	0.46
2:N:416:MET:HE1	2:N:499:CYS:HB3	1.96	0.46
5:P:18:THR:HB	5:R:15:PRO:O	2.14	0.46
5:R:8:PHE:CG	5:R:9:GLU:N	2.23	0.46
5:R:22:PRO:CB	5:R:24:TRP:CE2	2.98	0.46
5:S:4:THR:OG1	5:S:13:PHE:HE2	1.98	0.46
6:U:14:GLN:HB3	6:U:21:ALA:HB2	1.97	0.46
1:A:76:THR:HB	1:A:79:LEU:HB3	1.97	0.46
1:A:88:VAL:HG13	1:A:88:VAL:O	2.16	0.46
1:A:428:ILE:HD11	1:A:433:ASP:OD1	2.16	0.46
1:A:843:PRO:HG3	1:C:131:ASN:HD22	1.79	0.46
1:B:24:LEU:HD12	1:B:24:LEU:N	2.30	0.46
1:B:42:GLY:HA2	7:1:9:LEU:CB	2.45	0.46
1:B:93:VAL:HG12	1:B:574:LEU:O	2.15	0.46
1:B:576:PRO:HD3	1:B:631:GLU:HG3	1.97	0.46
1:B:674:ALA:HB1	1:B:885:LEU:CD2	2.45	0.46
1:C:88:VAL:HB	1:C:577:GLY:O	2.16	0.46
1:C:134:GLN:CB	1:C:155:LYS:HZ3	2.19	0.46
1:C:653:LEU:CD2	1:C:917:TYR:HD1	2.28	0.46
1:C:670:ARG:HD2	1:C:672:TRP:CZ2	2.50	0.46
1:D:152:ASP:HB3	1:F:445:ALA:N	2.30	0.46
1:D:172:LEU:HD22	1:D:174:LEU:HD23	1.97	0.46
1:D:202:GLU:OE1	1:D:206:GLU:CD	2.53	0.46
1:D:394:ASP:O	1:D:396:ARG:N	2.48	0.46
1:D:463:ASN:HD22	1:D:466:ALA:H	1.61	0.46
1:D:808:GLU:CG	1:D:814:TYR:CE2	2.99	0.46
1:D:822:GLN:HB2	1:D:846:PHE:HD1	1.80	0.46
1:E:233:THR:O	1:F:815:LYS:HG3	2.15	0.46
1:E:296:HIS:HE1	1:E:317:MET:HG2	1.77	0.46
1:E:759:CYS:SG	1:E:864:PHE:HB3	2.55	0.46
1:E:905:PHE:CE2	1:E:918:LEU:HD13	2.50	0.46
1:E:922:VAL:CG2	1:E:942:ARG:HG2	2.41	0.46
1:F:194:GLN:CB	1:F:197:PRO:CG	2.91	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:199:VAL:HG12	1:F:206:GLU:HG3	1.98	0.46
1:F:476:ASN:OD1	1:F:539:ARG:HD3	2.14	0.46
1:F:502:GLU:OE1	1:F:502:GLU:O	2.33	0.46
1:F:683:LEU:HG	1:F:915:LEU:HD11	1.96	0.46
1:F:880:MET:HA	1:F:880:MET:CE	2.45	0.46
1:G:117:SER:H	1:H:402:GLY:HA3	1.80	0.46
1:G:241:LYS:NZ	1:G:256:ILE:HG23	2.25	0.46
1:G:313:VAL:C	1:G:314:GLN:HG2	2.35	0.46
1:G:844:ALA:CB	1:I:121:TYR:HB3	2.45	0.46
1:H:31:PHE:CE1	1:I:630:LEU:HD12	2.49	0.46
1:H:134:GLN:NE2	1:H:151:LYS:HZ2	2.13	0.46
1:H:545:TYR:CD2	1:H:545:TYR:C	2.88	0.46
1:I:139:GLU:CB	1:I:152:ASP:OD2	2.53	0.46
1:I:241:LYS:HG3	1:I:241:LYS:O	2.15	0.46
1:I:262:ASP:OD1	1:I:262:ASP:C	2.53	0.46
1:I:581:TYR:CD2	1:I:582:GLU:N	2.83	0.46
1:I:731:TRP:C	1:I:731:TRP:CD2	2.86	0.46
1:I:809:ILE:CG1	1:I:810:ASN:N	2.73	0.46
1:I:834:PRO:O	1:I:835:THR:CG2	2.64	0.46
1:J:3:THR:CB	1:K:892:MET:HE2	2.33	0.46
1:J:13:MET:HG3	1:K:925:VAL:CG2	2.45	0.46
1:J:258:PHE:HD1	1:J:282:ILE:HD11	1.78	0.46
1:J:376:ASP:CG	1:J:377:ARG:N	2.69	0.46
1:J:417:THR:HG22	1:J:419:THR:H	1.80	0.46
1:J:663:VAL:CG2	5:P:17:LEU:CD1	2.91	0.46
1:J:676:ARG:O	1:J:875:PHE:HB2	2.14	0.46
1:J:756:VAL:CG2	1:L:383:MET:CE	2.93	0.46
1:K:370:LEU:HD12	1:K:646:TYR:CE1	2.50	0.46
1:K:433:ASP:O	1:K:433:ASP:OD1	2.33	0.46
1:K:517:TYR:C	1:K:517:TYR:HD1	2.19	0.46
1:K:726:ASP:OD1	6:U:15:PRO:CD	2.63	0.46
1:K:926:VAL:CG1	1:K:940:TYR:CD2	2.94	0.46
1:L:107:LEU:CD1	1:L:607:SER:CA	2.90	0.46
1:L:573:LEU:HB3	1:L:641:GLN:NE2	2.30	0.46
1:L:632:ALA:HA	1:L:635:ARG:HG2	1.98	0.46
1:L:822:GLN:NE2	1:L:846:PHE:CE2	2.84	0.46
1:L:892:MET:HB3	6:V:215:ASN:HA	1.96	0.46
2:N:118:MET:HE1	2:N:416:MET:SD	2.55	0.46
4:M:92:LEU:O	4:M:93:VAL:C	2.53	0.46
5:S:8:PHE:CD2	5:S:9:GLU:CA	2.97	0.46
5:S:13:PHE:CD1	5:S:13:PHE:C	2.86	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:S:73:THR:HA	5:S:76:ARG:HB3	1.98	0.46
6:U:168:TYR:HB2	7:1:31:ASN:CG	2.36	0.46
1:A:12:TYR:CE1	1:B:927:ARG:NH2	2.84	0.46
1:A:203:ASN:OD1	1:A:203:ASN:C	2.54	0.46
1:A:277:TYR:HD1	1:A:278:LYS:C	2.18	0.46
1:A:362:ASN:C	1:A:364:GLU:H	2.19	0.46
1:A:886:THR:HG22	1:A:887:ASP:N	2.29	0.46
1:B:81:LYS:HZ2	2:N:404:GLN:HB3	1.75	0.46
1:B:91:ASN:ND2	1:B:624:HIS:ND1	2.62	0.46
1:B:126:PRO:HD2	1:C:828:PHE:CZ	2.50	0.46
1:B:590:ASN:HB2	1:B:602:ARG:HB2	1.96	0.46
1:B:649:ALA:HA	1:B:920:PHE:O	2.15	0.46
1:B:652:MET:HB2	1:B:654:TYR:HE1	1.79	0.46
1:C:309:GLU:CD	1:C:309:GLU:N	2.69	0.46
1:C:515:ASP:O	1:C:518:ILE:HG12	2.15	0.46
1:C:543:LEU:O	1:C:544:ARG:C	2.54	0.46
1:C:752:GLU:H	1:C:752:GLU:HG3	1.11	0.46
1:D:112:SER:HB2	1:D:501:TYR:CG	2.50	0.46
1:D:198:GLN:CD	1:E:839:GLY:H	2.15	0.46
1:D:362:ASN:C	1:D:364:GLU:H	2.18	0.46
1:D:403:VAL:O	1:F:117:SER:HB2	2.15	0.46
1:D:572:LEU:HD12	1:D:641:GLN:OE1	2.14	0.46
1:E:41:LEU:HD23	1:E:41:LEU:N	2.29	0.46
1:E:46:ARG:HD2	1:F:644:ASN:HD22	1.78	0.46
1:E:410:TYR:CE2	1:F:414:LEU:HD21	2.31	0.46
1:E:774:TYR:N	1:E:774:TYR:CD1	2.83	0.46
1:F:46:ARG:HG3	7:4:7:ALA:O	2.16	0.46
1:F:78:TYR:C	1:F:587:LYS:HB3	2.36	0.46
1:F:526:LEU:H	1:F:526:LEU:CD2	2.08	0.46
1:F:760:ASN:CB	5:P:54:VAL:HG13	2.37	0.46
1:G:78:TYR:CD2	1:G:695:PHE:HE1	2.34	0.46
1:G:495:PRO:HD3	1:G:502:GLU:OE1	2.14	0.46
1:G:593:LEU:HD12	1:G:593:LEU:HA	1.68	0.46
1:G:649:ALA:HA	1:G:921:GLU:HA	1.96	0.46
1:G:836:MET:CE	1:G:837:ARG:HH12	2.10	0.46
1:G:880:MET:HG2	1:H:38:TYR:HB3	1.97	0.46
1:G:924:ASP:OD1	1:G:924:ASP:N	2.47	0.46
1:H:134:GLN:HE21	1:H:151:LYS:NZ	2.13	0.46
1:H:517:TYR:CE2	1:H:824:ASN:ND2	2.84	0.46
1:H:797:ASN:N	1:H:797:ASN:HD22	2.12	0.46
1:I:222:MET:CE	1:I:308:SER:O	2.63	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:298:VAL:CG1	1:I:315:GLN:O	2.63	0.46
1:I:422:THR:CG2	1:I:449:GLN:HA	2.44	0.46
1:I:478:ALA:O	1:I:480:TYR:N	2.48	0.46
1:I:927:ARG:O	1:I:939:VAL:HG22	2.16	0.46
1:J:155:LYS:HG3	1:J:261:PHE:HZ	1.80	0.46
1:J:397:ILE:CD1	1:J:799:GLN:HG3	2.45	0.46
1:J:469:TRP:O	1:J:473:LEU:HB2	2.16	0.46
1:J:643:PHE:O	1:J:926:VAL:HG22	2.16	0.46
1:J:687:GLU:HB3	1:J:701:TYR:CD2	2.50	0.46
1:K:204:TRP:CE2	1:K:415:ASN:HB3	2.49	0.46
1:K:255:ASP:C	1:K:256:ILE:HG13	2.36	0.46
1:K:344:VAL:HA	1:K:353:ASN:ND2	2.28	0.46
1:L:192:THR:O	1:L:193:PHE:CD1	2.68	0.46
1:L:424:GLN:HE21	1:L:424:GLN:HB2	1.52	0.46
1:L:687:GLU:HG2	1:L:701:TYR:CE2	2.49	0.46
1:L:782:HIS:O	1:L:783:VAL:C	2.53	0.46
1:L:795:PHE:CD2	1:L:795:PHE:C	2.89	0.46
1:L:922:VAL:HG21	1:L:942:ARG:HD2	1.97	0.46
4:M:104:TYR:O	4:M:105:ASN:C	2.53	0.46
6:V:193:VAL:O	6:V:194:PRO:C	2.53	0.46
7:2:17:PRO:HB2	7:2:22:TRP:CE2	2.50	0.46
1:A:108:ASP:HB3	1:A:606:ALA:O	2.14	0.46
1:A:131:ASN:N	1:A:131:ASN:ND2	2.60	0.46
1:A:301:PRO:HB3	1:C:202:GLU:OE1	2.14	0.46
1:A:462:ILE:HG21	1:B:411:CYS:SG	2.56	0.46
1:A:815:LYS:HZ3	1:C:233:THR:C	2.18	0.46
1:B:7:MET:HB2	1:B:8:PRO:CD	2.34	0.46
1:B:97:ALA:HB2	1:B:570:LYS:O	2.16	0.46
1:B:330:PHE:HE2	1:B:561:GLN:O	1.96	0.46
1:B:531:ASN:HB3	1:B:714:LEU:CD1	2.42	0.46
1:B:663:VAL:HG13	1:B:905:PHE:HB2	1.97	0.46
1:C:391:TYR:CD1	1:C:396:ARG:HB2	2.50	0.46
1:D:38:TYR:HH	7:3:24:GLU:HB2	1.75	0.46
1:D:88:VAL:HG23	1:D:619:PHE:HE1	1.80	0.46
1:D:198:GLN:HB3	1:E:839:GLY:N	2.30	0.46
1:D:230:ALA:CB	1:D:288:VAL:HG21	2.45	0.46
1:D:401:HIS:ND1	1:F:544:ARG:NH1	2.63	0.46
1:D:638:THR:HG23	1:D:639:HIS:N	2.30	0.46
1:E:647:LEU:HD21	1:E:919:LEU:HD13	1.98	0.46
1:E:731:TRP:HZ2	1:E:875:PHE:HA	1.80	0.46
1:F:377:ARG:HB2	1:F:791:MET:HE1	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:403:VAL:HG21	1:F:466:ALA:N	2.30	0.46
1:F:567:PHE:CE1	1:F:645:ASP:N	2.84	0.46
1:F:634:LEU:HD23	1:F:634:LEU:C	2.26	0.46
1:F:774:TYR:CE2	1:F:784:PRO:HG3	2.49	0.46
1:F:802:SER:CB	1:F:861:GLN:O	2.63	0.46
1:G:43:ASN:ND2	1:G:44:LYS:HD2	2.31	0.46
1:G:500:THR:HG23	1:G:503:TYR:HB2	1.98	0.46
1:G:524:TRP:CH2	1:G:863:LYS:CG	2.86	0.46
1:G:682:ARG:HG2	1:G:714:LEU:HD22	1.97	0.46
1:G:842:TYR:CD1	1:G:843:PRO:HD2	2.51	0.46
1:G:842:TYR:CD2	1:G:843:PRO:HD2	2.50	0.46
1:G:928:VAL:HA	1:G:937:GLU:O	2.15	0.46
1:H:103:ILE:HG21	1:H:610:PHE:CE1	2.50	0.46
1:H:107:LEU:CD1	1:H:593:LEU:HD21	2.45	0.46
1:H:108:ASP:N	1:H:607:SER:CB	2.77	0.46
1:H:121:TYR:N	1:H:121:TYR:CD1	2.84	0.46
1:H:121:TYR:O	1:H:227:GLY:HA2	2.15	0.46
1:H:134:GLN:NE2	1:H:151:LYS:NZ	2.64	0.46
1:H:190:ASP:C	1:H:192:THR:H	2.19	0.46
1:H:581:TYR:O	1:H:581:TYR:CG	2.65	0.46
1:H:685:THR:HB	1:H:913:PRO:O	2.15	0.46
1:H:918:LEU:HD23	1:H:919:LEU:N	2.29	0.46
1:I:405:ASP:OD1	1:I:405:ASP:O	2.34	0.46
1:I:474:TYR:O	1:I:474:TYR:CD2	2.69	0.46
1:I:909:PRO:HG3	5:S:48:THR:HA	1.97	0.46
1:I:922:VAL:HG12	1:I:944:PRO:CD	2.46	0.46
1:J:97:ALA:CA	1:J:570:LYS:O	2.64	0.46
1:J:104:ARG:HB3	1:J:104:ARG:CZ	2.46	0.46
1:J:329:ASN:O	1:J:330:PHE:HB2	2.16	0.46
1:J:546:ARG:HH11	1:J:546:ARG:CB	2.27	0.46
1:J:589:VAL:O	1:J:593:LEU:HD23	2.15	0.46
1:J:629:THR:C	1:J:631:GLU:H	2.18	0.46
1:K:58:THR:CB	1:K:622:MET:O	2.61	0.46
1:K:160:ALA:HA	1:K:212:GLY:O	2.15	0.46
1:K:165:ILE:O	1:K:166:ASN:HB3	2.14	0.46
1:K:384:TRP:CE3	1:K:384:TRP:CA	2.97	0.46
1:K:755:ASN:O	1:K:763:LYS:NZ	2.39	0.46
1:L:49:THR:O	1:L:50:VAL:C	2.53	0.46
1:L:290:LEU:O	1:L:290:LEU:HG	2.15	0.46
1:L:337:ASN:ND2	1:L:357:ASP:OD2	2.48	0.46
1:L:687:GLU:HB3	1:L:706:PRO:CD	2.42	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:124:TYR:HE2	2:N:499:CYS:SG	2.37	0.46
2:N:385:VAL:CG1	2:N:386:TYR:N	2.78	0.46
2:N:411:VAL:HG13	2:N:477:LEU:HD13	1.98	0.46
4:M:101:VAL:O	4:M:105:ASN:HB2	2.15	0.46
5:P:2:ASN:OD1	5:P:2:ASN:N	2.48	0.46
5:P:19:THR:OG1	5:R:13:PHE:O	2.33	0.46
5:Q:4:THR:HB	5:Q:10:GLY:O	2.16	0.46
5:Q:76:ARG:HA	5:Q:79:SER:HB3	1.97	0.46
5:R:129:GLN:HE22	5:R:132:GLN:NE2	2.13	0.46
6:U:64:THR:OG1	6:U:191:GLU:OE2	2.24	0.46
6:V:50:HIS:C	6:V:52:ASN:N	2.69	0.46
1:A:63:ARG:HH11	1:A:63:ARG:HG3	1.80	0.46
1:A:94:LEU:HB2	1:A:619:PHE:HE1	1.76	0.46
1:A:134:GLN:HB2	1:A:155:LYS:NZ	2.31	0.46
1:A:260:TYR:CD2	1:A:282:ILE:HD11	2.50	0.46
1:A:475:SER:C	1:A:476:ASN:ND2	2.69	0.46
1:A:734:ASN:O	1:A:735:ASP:HB2	2.15	0.46
1:B:13:MET:CG	1:C:925:VAL:HG23	2.42	0.46
1:B:188:TYR:HB2	1:B:192:THR:HG21	1.97	0.46
1:B:188:TYR:CB	1:B:192:THR:CG2	2.93	0.46
1:B:315:GLN:HE22	1:B:835:THR:C	2.18	0.46
1:B:875:PHE:HE2	1:B:889:GLY:N	2.14	0.46
1:C:45:PHE:CD2	7:2:9:LEU:HD22	2.50	0.46
1:C:190:ASP:OD1	1:C:191:LYS:N	2.48	0.46
1:C:355:VAL:HG22	1:C:569:ILE:HD11	1.98	0.46
1:C:500:THR:O	1:C:503:TYR:N	2.41	0.46
1:C:680:PHE:CD1	1:C:680:PHE:N	2.83	0.46
1:D:106:VAL:HG22	1:D:609:ARG:HE	1.79	0.46
1:D:132:PRO:HB3	1:D:158:GLY:HA2	1.98	0.46
1:E:65:THR:CG2	1:F:738:LEU:HD11	2.38	0.46
1:E:384:TRP:HA	1:E:384:TRP:HE3	1.77	0.46
1:E:499:ASN:O	1:E:599:ASN:HB2	2.16	0.46
1:E:533:ASN:HB2	1:E:713:TYR:CE2	2.51	0.46
1:E:634:LEU:HD12	1:E:634:LEU:HA	1.83	0.46
1:E:661:THR:CB	1:E:907:VAL:O	2.64	0.46
1:E:718:PHE:CD1	1:E:907:VAL:HG12	2.51	0.46
1:E:790:ARG:HB3	1:E:790:ARG:NH1	2.11	0.46
1:F:83:ARG:HA	1:F:582:GLU:HB3	1.96	0.46
1:F:110:GLY:C	1:F:112:SER:N	2.69	0.46
1:F:134:GLN:HG2	1:F:155:LYS:HB3	1.97	0.46
1:F:217:LYS:HA	1:F:285:THR:HG21	1.95	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:664:PRO:CG	5:P:18:THR:CG2	2.94	0.46
1:F:744:GLU:HG2	1:F:747:ARG:NH2	2.31	0.46
1:F:761:MET:HE3	1:F:761:MET:HB2	1.82	0.46
1:G:413:PRO:HA	1:I:460:MET:CB	2.44	0.46
1:G:443:ASP:O	1:G:444:ASP:C	2.54	0.46
1:G:501:TYR:HD1	1:G:597:LEU:HD23	1.80	0.46
1:G:517:TYR:CE2	1:G:824:ASN:ND2	2.83	0.46
1:G:687:GLU:HB2	1:G:701:TYR:CE2	2.51	0.46
1:G:842:TYR:HE2	1:I:239:GLN:HG2	1.81	0.46
1:H:204:TRP:O	1:H:206:GLU:N	2.49	0.46
1:H:225:CYS:HA	1:H:228:SER:OG	2.16	0.46
1:H:269:PRO:HA	1:H:277:TYR:HE2	1.80	0.46
1:H:456:ASN:ND2	1:H:456:ASN:N	2.58	0.46
1:H:715:ASN:HD21	1:H:869:VAL:CG1	2.27	0.46
1:H:774:TYR:CB	1:H:776:ILE:HG23	2.46	0.46
1:H:812:LYS:HA	1:H:812:LYS:NZ	2.29	0.46
1:I:100:TYR:CD2	1:I:100:TYR:C	2.88	0.46
1:I:104:ARG:O	1:I:611:ASP:HB2	2.15	0.46
1:I:493:LYS:HD3	1:I:493:LYS:N	2.29	0.46
1:I:601:LEU:HD22	1:I:702:SER:HB2	1.98	0.46
1:J:570:LYS:C	1:J:571:ASN:OD1	2.53	0.46
1:J:589:VAL:HG21	1:J:606:ALA:HA	1.97	0.46
1:J:653:LEU:HG	1:J:915:LEU:HD23	1.97	0.46
1:J:744:GLU:O	1:J:762:THR:HG21	2.14	0.46
1:J:806:VAL:HG23	1:J:856:VAL:HG21	1.86	0.46
1:J:907:VAL:O	1:J:907:VAL:HG22	2.16	0.46
1:K:55:ASP:C	1:K:57:THR:H	2.19	0.46
1:K:233:THR:OG1	1:K:240:ALA:HA	2.15	0.46
1:K:239:GLN:HG2	1:L:842:TYR:HE2	1.80	0.46
1:K:241:LYS:HZ3	1:K:256:ILE:CG1	2.27	0.46
1:K:454:LYS:NZ	1:L:211:TYR:CE1	2.83	0.46
1:K:819:LEU:HA	1:K:822:GLN:NE2	2.31	0.46
1:L:91:ASN:O	1:L:627:ALA:CB	2.63	0.46
1:L:400:ASN:OD1	1:L:520:ILE:HA	2.16	0.46
1:L:478:ALA:CB	1:L:514:VAL:HG11	2.46	0.46
1:L:672:TRP:HZ3	1:L:899:HIS:C	2.18	0.46
1:L:846:PHE:CB	1:L:847:PRO:CD	2.94	0.46
1:L:846:PHE:HD2	1:L:847:PRO:HD3	1.81	0.46
2:N:325:LYS:H	3:O:6:ARG:NH1	2.14	0.46
5:P:41:VAL:H	5:P:43:PRO:CD	2.29	0.46
5:Q:12:LEU:HD12	5:Q:15:PRO:HG3	1.92	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Q:32:MET:SD	5:Q:45:ASN:HB3	2.55	0.46
5:Q:127:GLU:HG2	5:Q:128:GLN:HE21	1.80	0.46
6:U:11:TRP:CH2	6:U:69:LEU:CD2	2.97	0.46
7:2:16:ARG:HH12	7:2:21:THR:HG21	1.77	0.46
7:5:13:HIS:O	7:5:14:GLY:C	2.54	0.46
1:A:13:MET:HG2	1:B:941:LEU:CD1	2.45	0.46
1:A:214:ARG:HG2	1:B:842:TYR:CE2	2.51	0.46
1:A:445:ALA:O	1:A:446:ILE:C	2.53	0.46
1:A:456:ASN:HD21	1:C:837:ARG:C	2.18	0.46
1:A:575:LEU:HD22	1:A:576:PRO:HD2	1.97	0.46
1:A:580:THR:O	1:A:580:THR:HG23	2.15	0.46
1:A:818:THR:OG1	1:A:820:PRO:HD2	2.14	0.46
1:A:842:TYR:CE1	1:A:843:PRO:HD2	2.51	0.46
1:B:103:ILE:HG21	1:B:610:PHE:CE2	2.51	0.46
1:B:323:TYR:HB2	1:B:596:SER:HB2	1.96	0.46
1:B:334:MET:HE3	1:B:336:TYR:OH	2.16	0.46
1:B:358:LEU:HD13	1:B:361:ARG:HH21	1.80	0.46
1:B:392:ASP:HB3	1:B:395:VAL:HG12	1.97	0.46
1:B:635:ARG:NH1	1:B:933:ARG:CA	2.77	0.46
1:B:675:PHE:HB2	1:B:944:PRO:HG3	1.97	0.46
1:C:637:ASP:CB	1:C:929:HIS:CE1	2.98	0.46
1:C:649:ALA:HB1	1:C:919:LEU:HD12	1.95	0.46
1:C:744:GLU:O	1:C:765:TRP:CB	2.50	0.46
1:C:776:ILE:HG22	1:C:782:HIS:NE2	2.31	0.46
1:D:149:GLN:O	1:D:150:GLU:HG2	2.15	0.46
1:D:170:GLN:CD	1:D:185:LYS:HG3	2.36	0.46
1:D:201:GLU:CD	1:D:201:GLU:H	2.18	0.46
1:D:346:ALA:HB1	1:D:351:GLN:HA	1.98	0.46
1:D:427:LYS:HD2	1:D:439:GLU:HG3	1.98	0.46
1:D:442:LYS:N	1:D:442:LYS:CD	2.79	0.46
1:D:462:ILE:HD13	1:D:464:LEU:HD12	1.96	0.46
1:D:731:TRP:C	1:D:733:GLY:H	2.19	0.46
1:F:78:TYR:C	1:F:78:TYR:CD1	2.89	0.46
1:F:339:THR:CG2	1:H:740:PRO:CG	2.90	0.46
1:F:776:ILE:H	1:F:776:ILE:CD1	2.28	0.46
1:G:199:VAL:HG23	1:G:200:GLY:H	1.80	0.46
1:G:228:SER:HB2	1:G:290:LEU:HD11	1.97	0.46
1:G:309:GLU:O	1:G:311:ASN:N	2.48	0.46
1:G:486:LYS:HE3	1:G:509:VAL:CG2	2.45	0.46
1:G:545:TYR:CD2	1:G:545:TYR:C	2.85	0.46
1:G:767:LEU:CD2	1:G:771:LEU:HD22	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:769:GLN:HE22	1:G:872:ARG:H	1.62	0.46
1:H:66:LEU:HD21	1:H:619:PHE:CE2	2.50	0.46
1:H:187:ILE:C	1:H:189:ALA:H	2.18	0.46
1:H:590:ASN:HD22	1:H:590:ASN:C	2.18	0.46
1:I:23:TYR:C	1:I:23:TYR:CD1	2.89	0.46
1:I:352:LEU:O	1:I:353:ASN:C	2.54	0.46
1:I:681:THR:HG23	1:I:870:MET:HG3	1.97	0.46
1:I:771:LEU:CD1	1:I:777:GLY:HA3	2.42	0.46
1:I:791:MET:CE	1:I:792:TYR:CE1	2.99	0.46
1:J:192:THR:CG2	1:J:284:TYR:CD2	2.97	0.46
1:J:198:GLN:HB2	1:K:839:GLY:N	2.30	0.46
1:K:15:ILE:HG22	1:K:16:ALA:N	2.28	0.46
1:K:214:ARG:HH12	1:K:241:LYS:HE2	1.80	0.46
1:K:419:THR:HG23	1:K:451:GLN:CB	2.43	0.46
1:K:440:TRP:CH2	1:L:276:GLU:CB	2.99	0.46
1:K:489:PRO:HD3	1:K:508:VAL:CG1	2.34	0.46
1:K:662:ASN:HA	1:K:906:GLU:N	2.31	0.46
1:K:685:THR:O	1:K:685:THR:CG2	2.61	0.46
1:K:689:PRO:N	1:K:699:PHE:CE1	2.84	0.46
1:L:52:PRO:CG	1:L:56:VAL:HG21	2.43	0.46
1:L:731:TRP:N	1:L:732:PRO:HD2	2.31	0.46
2:N:186:LEU:O	2:N:190:ARG:HD3	2.16	0.46
2:N:202:LYS:HZ2	2:N:452:ILE:C	2.18	0.46
2:N:447:PHE:N	2:N:447:PHE:CD1	2.84	0.46
2:N:501:TYR:O	2:N:502:VAL:C	2.53	0.46
4:M:37:THR:HG22	4:M:39:ARG:H	1.79	0.46
5:S:8:PHE:HE2	5:S:9:GLU:HB3	1.66	0.46
6:U:94:ASP:CG	6:U:163:THR:HG21	2.35	0.46
6:U:183:ILE:CG1	6:U:187:GLN:HB3	2.35	0.46
6:U:204:SER:O	6:U:207:LEU:N	2.48	0.46
7:9:15:THR:CG2	7:9:16:ARG:N	2.76	0.46
1:A:756:VAL:HG11	1:C:383:MET:CE	2.46	0.46
1:B:21:SER:OG	7:1:11:PRO:CB	2.60	0.46
1:B:41:LEU:HD22	1:C:630:LEU:HD21	1.98	0.46
1:B:189:ALA:HA	1:B:256:ILE:CD1	2.46	0.46
1:B:201:GLU:O	1:C:836:MET:SD	2.73	0.46
1:B:620:PHE:HD1	1:C:778:TYR:CG	2.33	0.46
1:C:45:PHE:HD2	7:2:9:LEU:HD22	1.79	0.46
1:C:111:PRO:HD3	1:C:554:ARG:HH22	1.79	0.46
1:C:589:VAL:HG13	1:C:590:ASN:N	2.31	0.46
1:C:590:ASN:HD22	1:C:602:ARG:HB2	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:659:LYS:CG	1:C:910:MET:O	2.48	0.46
1:C:661:THR:O	1:C:662:ASN:C	2.53	0.46
1:C:808:GLU:CG	1:C:814:TYR:HE2	2.22	0.46
1:C:820:PRO:HG2	1:C:821:PHE:CE1	2.50	0.46
1:D:46:ARG:CD	1:E:644:ASN:ND2	2.79	0.46
1:D:130:PRO:HG3	1:F:204:TRP:HZ2	1.81	0.46
1:D:370:LEU:HB2	1:D:646:TYR:CB	2.46	0.46
1:D:476:ASN:O	1:D:477:VAL:HG12	2.15	0.46
1:D:544:ARG:O	1:D:548:MET:HG3	2.16	0.46
1:D:762:THR:HB	1:D:764:ASP:OD1	2.15	0.46
1:D:795:PHE:O	1:D:797:ASN:N	2.49	0.46
1:E:425:GLY:O	1:E:426:VAL:HG13	2.15	0.46
1:E:454:LYS:HE3	1:E:454:LYS:HB2	1.66	0.46
1:E:557:PRO:HD2	1:F:860:THR:HG22	1.98	0.46
1:E:720:LYS:HD3	1:E:906:GLU:OE1	2.16	0.46
1:E:756:VAL:O	1:E:757:ALA:HB3	2.15	0.46
1:F:109:ARG:HG2	1:F:324:ILE:HB	1.98	0.46
1:F:747:ARG:HH11	1:F:747:ARG:HG2	1.81	0.46
1:G:367:TYR:HD1	1:G:570:LYS:HZ2	1.64	0.46
1:G:414:LEU:HD12	1:H:837:ARG:NH1	2.31	0.46
1:G:665:ILE:O	1:G:666:SER:CB	2.61	0.46
1:G:725:PHE:CE2	1:G:894:TYR:HE2	2.33	0.46
1:H:453:CYS:HB3	1:I:159:VAL:HG22	1.98	0.46
1:H:582:GLU:OE1	1:H:582:GLU:C	2.54	0.46
1:H:726:ASP:OD1	1:H:727:SER:N	2.45	0.46
1:H:917:TYR:O	1:H:917:TYR:CG	2.68	0.46
1:I:218:LYS:HZ1	1:I:219:ASP:N	2.14	0.46
1:I:299:TYR:HB2	1:I:315:GLN:NE2	2.30	0.46
1:I:471:SER:O	1:I:472:PHE:C	2.54	0.46
1:J:177:ASP:HB3	1:J:184:LYS:HE3	1.98	0.46
1:J:192:THR:HG21	1:J:284:TYR:CG	2.50	0.46
1:J:324:ILE:HG23	1:J:593:LEU:HB3	1.97	0.46
1:J:461:GLU:HG3	1:J:462:ILE:N	2.30	0.46
1:J:637:ASP:O	1:J:637:ASP:CG	2.48	0.46
1:J:744:GLU:O	1:J:762:THR:HG22	2.14	0.46
1:J:804:GLN:O	1:J:805:VAL:C	2.54	0.46
1:J:890:GLN:O	1:J:891:ASN:C	2.52	0.46
1:L:134:GLN:HG2	1:L:154:THR:HG22	1.94	0.46
1:L:176:THR:HA	1:L:182:ASN:O	2.16	0.46
1:L:364:GLU:C	1:L:366:SER:N	2.69	0.46
1:L:385:ASN:O	1:L:385:ASN:OD1	2.34	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:684:LYS:HA	1:L:914:THR:CG2	2.45	0.46
1:L:691:LEU:HD21	1:L:708:LEU:HD22	1.97	0.46
1:L:875:PHE:CG	1:L:875:PHE:O	2.67	0.46
2:N:477:LEU:HD23	2:N:477:LEU:N	2.30	0.46
4:M:212:VAL:N	4:M:250:SER:HB2	2.23	0.46
4:M:260:ARG:O	4:M:260:ARG:HG2	2.15	0.46
5:Q:126:ARG:CG	5:Q:126:ARG:O	2.64	0.46
6:V:57:GLU:C	6:V:59:ALA:N	2.67	0.46
7:4:25:ILE:CG2	7:4:26:GLY:N	2.79	0.46
1:A:20:ALA:HA	1:A:24:LEU:HD23	1.97	0.46
1:A:33:ARG:O	1:A:33:ARG:HG2	2.15	0.46
1:A:141:GLN:HB2	1:C:446:ILE:HD13	1.96	0.46
1:A:241:LYS:O	1:A:254:LEU:HD22	2.16	0.46
1:A:423:TYR:HD2	1:B:262:ASP:C	2.19	0.46
1:A:687:GLU:HG2	1:A:701:TYR:CD1	2.50	0.46
1:B:76:THR:O	1:B:587:LYS:NZ	2.37	0.46
1:B:250:GLN:HE21	1:B:250:GLN:HB3	1.32	0.46
1:B:345:LEU:HD12	1:B:936:ILE:HD13	1.97	0.46
1:B:391:TYR:HD2	1:B:534:PRO:HB2	1.72	0.46
1:B:472:PHE:CD1	1:B:539:ARG:NH1	2.61	0.46
1:B:615:LEU:HD22	1:B:615:LEU:C	2.36	0.46
1:B:752:GLU:C	1:B:754:TYR:HD1	2.16	0.46
1:C:19:ASP:OD1	1:C:20:ALA:N	2.48	0.46
1:C:919:LEU:O	1:C:919:LEU:HG	2.15	0.46
1:D:22:GLU:OE1	7:4:19:MET:HE2	2.15	0.46
1:D:63:ARG:HG2	1:D:66:LEU:HD23	1.98	0.46
1:D:320:ARG:HH11	1:D:320:ARG:HG2	1.81	0.46
1:D:461:GLU:HA	1:D:461:GLU:OE2	2.15	0.46
1:D:552:ASN:ND2	1:E:522:ALA:HB2	2.31	0.46
1:E:111:PRO:HD3	1:E:554:ARG:HH21	1.79	0.46
1:E:239:GLN:HG2	1:F:842:TYR:HE2	1.81	0.46
1:E:477:VAL:HG12	1:E:514:VAL:HG21	1.93	0.46
1:E:480:TYR:OH	1:E:538:PRO:HD3	2.14	0.46
1:E:574:LEU:CD2	1:E:574:LEU:H	2.29	0.46
1:E:575:LEU:CB	1:E:635:ARG:NH2	2.74	0.46
1:E:859:VAL:HG22	1:E:860:THR:N	2.30	0.46
1:E:922:VAL:HG11	1:E:945:PHE:H	1.81	0.46
1:F:92:ARG:O	1:F:92:ARG:HG2	2.14	0.46
1:F:167:ILE:HD13	1:F:282:ILE:CG2	2.24	0.46
1:F:575:LEU:HD12	1:F:635:ARG:HD2	1.96	0.46
1:F:680:PHE:CD2	1:F:905:PHE:HE2	2.32	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:665:ILE:HG13	1:G:666:SER:N	2.30	0.46
1:G:783:VAL:HG22	1:G:784:PRO:HD2	1.94	0.46
1:H:153:VAL:HG12	1:H:156:THR:CG2	2.45	0.46
1:H:197:PRO:CD	1:H:198:GLN:H	2.28	0.46
1:H:269:PRO:HD3	1:H:275:GLU:O	2.16	0.46
1:H:637:ASP:CG	1:H:638:THR:N	2.67	0.46
1:H:747:ARG:CD	1:H:762:THR:HG22	2.46	0.46
1:I:127:LYS:HA	1:I:226:TYR:HB2	1.97	0.46
1:I:897:SER:HB2	1:I:899:HIS:NE2	2.31	0.46
1:J:19:ASP:O	1:J:23:TYR:HD2	1.99	0.46
1:J:85:THR:HG23	1:J:580:THR:HG22	1.96	0.46
1:J:134:GLN:HB2	1:J:155:LYS:HA	1.98	0.46
1:J:577:GLY:HA3	1:J:579:TYR:CE1	2.50	0.46
1:J:800:PRO:O	1:J:801:MET:HB3	2.16	0.46
1:K:18:GLN:HB2	1:K:22:GLU:OE1	2.16	0.46
1:K:204:TRP:HH2	1:L:312:LEU:O	1.98	0.46
1:K:209:ALA:CB	1:K:210:PHE:CD1	2.98	0.46
1:K:358:LEU:CD1	1:K:947:ALA:HB2	2.46	0.46
1:K:426:VAL:HG13	1:K:440:TRP:HB3	1.97	0.46
1:K:672:TRP:O	1:K:673:ALA:C	2.53	0.46
1:K:875:PHE:HE2	1:K:889:GLY:HA3	1.80	0.46
1:L:70:PRO:HD3	1:L:613:VAL:O	2.15	0.46
1:L:137:THR:O	1:L:149:GLN:HA	2.16	0.46
1:L:141:GLN:HE21	1:L:148:GLN:HG3	1.81	0.46
1:L:371:LEU:HD13	1:L:371:LEU:O	2.16	0.46
1:L:396:ARG:HG2	1:L:396:ARG:NH1	2.29	0.46
1:L:562:VAL:O	1:L:562:VAL:HG12	2.15	0.46
1:L:754:TYR:O	1:L:762:THR:CA	2.63	0.46
1:L:770:MET:SD	1:L:776:ILE:HD12	2.55	0.46
2:N:125:MET:O	2:N:126:PHE:HB2	2.16	0.46
2:N:256:LYS:HZ3	2:N:261:GLN:HB2	1.78	0.46
5:Q:21:LEU:C	5:Q:21:LEU:HD12	2.36	0.46
6:V:75:PRO:HG2	6:V:78:LEU:HG	1.98	0.46
1:A:115:PRO:HD2	1:B:851:ILE:HG21	1.97	0.46
1:A:235:GLU:CG	1:B:815:LYS:HB3	2.44	0.46
1:A:778:TYR:CG	1:C:620:PHE:HB2	2.50	0.46
1:A:916:LEU:O	1:A:917:TYR:C	2.52	0.46
1:B:20:ALA:HA	1:B:24:LEU:CD1	2.46	0.46
1:B:89:GLY:C	1:B:92:ARG:HG3	2.37	0.46
1:B:131:ASN:ND2	1:B:131:ASN:N	2.63	0.46
1:B:291:GLU:OE1	1:C:854:THR:HB	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:527:ASP:N	1:B:528:PRO:CD	2.79	0.46
1:B:607:SER:HB2	1:B:608:VAL:H	1.45	0.46
1:B:635:ARG:HH12	1:B:933:ARG:CG	2.27	0.46
1:B:669:SER:OG	1:B:900:ALA:HB2	2.16	0.46
1:C:63:ARG:O	1:C:64:LEU:C	2.54	0.46
1:C:155:LYS:HE3	1:C:285:THR:HB	1.97	0.46
1:C:218:LYS:CG	1:C:219:ASP:OD1	2.53	0.46
1:C:344:VAL:CG1	1:C:353:ASN:HD21	2.23	0.46
1:C:486:LYS:HG2	1:C:509:VAL:HG13	1.95	0.46
1:C:531:ASN:O	1:C:713:TYR:HE1	1.99	0.46
1:C:651:ASN:ND2	1:C:917:TYR:HE1	2.14	0.46
1:C:799:GLN:CA	1:C:799:GLN:HE21	2.28	0.46
1:D:66:LEU:HD12	1:D:619:PHE:CE2	2.51	0.46
1:D:101:PHE:CD2	1:D:585:PHE:HZ	2.33	0.46
1:D:722:SER:O	1:D:903:MET:HA	2.15	0.46
1:D:738:LEU:HD22	1:F:65:THR:HG23	1.98	0.46
1:E:20:ALA:HA	1:E:23:TYR:CE2	2.51	0.46
1:E:93:VAL:HG22	1:E:573:LEU:HD21	1.96	0.46
1:E:153:VAL:O	1:E:156:THR:HB	2.16	0.46
1:E:261:PHE:O	1:E:280:ASP:HA	2.16	0.46
1:E:649:ALA:HB3	1:E:919:LEU:CD1	2.46	0.46
1:F:20:ALA:CB	1:F:47:ASN:HB3	2.46	0.46
1:F:682:ARG:H	1:F:682:ARG:HG3	1.53	0.46
1:F:707:TYR:CG	1:F:708:LEU:N	2.82	0.46
1:F:752:GLU:O	1:F:754:TYR:CD2	2.69	0.46
1:F:859:VAL:O	1:F:859:VAL:HG13	2.14	0.46
1:G:194:GLN:HE21	1:H:821:PHE:HB3	1.81	0.46
1:G:494:LEU:HD12	1:G:507:ARG:HD2	1.98	0.46
1:G:706:PRO:HA	1:G:711:THR:CG2	2.46	0.46
1:G:853:GLN:HB3	1:I:111:PRO:HB3	1.98	0.46
1:H:194:GLN:OE1	1:I:821:PHE:CA	2.63	0.46
1:H:594:GLN:HE21	1:H:594:GLN:HB2	1.49	0.46
1:I:161:ALA:HA	1:I:211:TYR:CD2	2.50	0.46
1:I:167:ILE:HD13	1:I:282:ILE:HG12	1.97	0.46
1:J:81:LYS:HB2	1:J:584:ASN:HB3	1.97	0.46
1:J:135:TRP:H	1:J:154:THR:HG23	1.80	0.46
1:J:214:ARG:HH12	1:J:241:LYS:NZ	2.13	0.46
1:J:296:HIS:NE2	1:J:317:MET:CE	2.79	0.46
1:J:341:ASN:CB	1:J:584:ASN:OD1	2.64	0.46
1:J:635:ARG:HG3	1:J:635:ARG:NH1	2.31	0.46
1:J:724:MET:HE3	5:Q:20:ARG:NH1	2.22	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:875:PHE:O	1:J:886:THR:HG21	2.16	0.46
1:J:883:GLY:HA2	1:L:49:THR:HG22	1.96	0.46
1:K:281:ILE:O	1:K:281:ILE:CG1	2.63	0.46
1:K:448:ARG:N	1:K:448:ARG:HD3	2.31	0.46
1:K:600:ASP:OD1	1:K:700:VAL:HA	2.16	0.46
1:K:886:THR:O	1:K:890:GLN:HB3	2.16	0.46
1:L:113:PHE:HB2	1:L:324:ILE:HD12	1.98	0.46
1:L:384:TRP:CE3	1:L:384:TRP:CA	2.97	0.46
1:L:476:ASN:CG	1:L:539:ARG:HD3	2.35	0.46
1:L:670:ARG:CZ	1:L:945:PHE:CG	2.97	0.46
1:L:797:ASN:O	1:L:866:CYS:HB2	2.16	0.46
1:L:822:GLN:CD	1:L:846:PHE:CE1	2.78	0.46
1:L:896:ASN:HD22	6:V:21:ALA:CB	2.29	0.46
2:N:379:THR:CG2	2:N:420:ALA:HB2	2.45	0.46
2:N:430:TYR:C	2:N:432:GLN:H	2.20	0.46
4:M:67:PRO:HG2	4:M:68:THR:N	2.31	0.46
4:M:356:ALA:HB1	4:M:363:LYS:NZ	2.31	0.46
5:Q:76:ARG:HH12	5:S:76:ARG:NH1	2.14	0.46
6:V:62:THR:HG22	6:V:190:GLU:O	2.16	0.46
1:A:217:LYS:HD3	1:A:218:LYS:H	1.81	0.46
1:A:231:ARG:O	1:A:240:ALA:CB	2.61	0.46
1:A:643:PHE:HA	1:C:46:ARG:HD3	1.97	0.46
1:A:839:GLY:N	1:C:198:GLN:HB3	2.23	0.46
1:A:943:THR:CB	1:A:944:PRO:HD3	2.46	0.46
1:C:261:PHE:O	1:C:280:ASP:HA	2.16	0.46
1:C:315:GLN:OE1	1:C:836:MET:CB	2.56	0.46
1:C:377:ARG:NH1	1:C:377:ARG:HB2	2.31	0.46
1:C:383:MET:SD	1:C:561:GLN:HG2	2.56	0.46
1:C:725:PHE:O	1:C:726:ASP:C	2.53	0.46
1:C:731:TRP:CZ2	1:C:875:PHE:CG	2.99	0.46
1:C:745:ILE:HG12	1:C:765:TRP:CG	2.51	0.46
1:C:807:ASP:OD2	1:C:809:ILE:HG12	2.15	0.46
1:D:135:TRP:N	1:D:154:THR:OG1	2.39	0.46
1:D:570:LYS:HB3	1:D:570:LYS:NZ	2.31	0.46
1:D:709:ASP:O	1:D:711:THR:HG22	2.16	0.46
1:D:747:ARG:HG2	1:D:747:ARG:O	2.15	0.46
1:D:847:PRO:O	1:F:121:TYR:HE2	1.99	0.46
1:E:192:THR:O	1:E:193:PHE:CD2	2.68	0.46
1:F:673:ALA:O	1:F:944:PRO:HG3	2.15	0.46
1:F:674:ALA:HB3	1:F:944:PRO:HD3	1.97	0.46
1:G:23:TYR:CE1	1:G:24:LEU:CD2	2.99	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:243:LYS:H	1:G:243:LYS:HG2	1.47	0.46
1:G:869:VAL:CG2	1:G:870:MET:N	2.72	0.46
1:H:6:MET:O	1:H:7:MET:C	2.52	0.46
1:H:424:GLN:O	1:I:261:PHE:CD2	2.69	0.46
1:H:589:VAL:HG21	1:H:606:ALA:HB1	1.93	0.46
1:H:698:TYR:O	1:H:700:VAL:N	2.49	0.46
1:I:422:THR:CB	1:I:449:GLN:HA	2.46	0.46
1:I:523:ARG:O	1:I:801:MET:HB3	2.16	0.46
1:J:104:ARG:O	1:J:104:ARG:HG2	2.16	0.46
1:J:189:ALA:HB2	1:J:254:LEU:HD21	1.98	0.46
1:J:513:LEU:HG	1:J:819:LEU:HD11	1.97	0.46
1:J:603:VAL:O	1:J:603:VAL:HG12	2.15	0.46
1:K:296:HIS:CE1	1:K:317:MET:CG	2.99	0.46
1:K:327:ARG:NE	1:K:594:GLN:CB	2.73	0.46
1:K:334:MET:CE	1:K:562:VAL:HG23	2.46	0.46
1:K:731:TRP:CE3	1:K:732:PRO:CD	2.99	0.46
1:L:99:THR:HA	1:L:616:TYR:O	2.16	0.46
1:L:134:GLN:CB	1:L:155:LYS:H	2.28	0.46
1:L:168:THR:HG21	1:L:185:LYS:CE	2.46	0.46
1:L:186:ASP:OD1	1:L:191:LYS:O	2.34	0.46
1:L:296:HIS:HE1	1:L:317:MET:HE2	1.79	0.46
1:L:409:ASN:OD1	1:L:409:ASN:N	2.49	0.46
1:L:483:ASP:O	1:L:483:ASP:CG	2.54	0.46
2:N:110:LEU:HD23	2:N:411:VAL:HG12	1.98	0.46
5:Q:22:PRO:HB2	5:Q:24:TRP:CZ2	2.51	0.46
6:U:217:ASP:C	6:U:219:VAL:N	2.69	0.46
6:V:197:TYR:CZ	6:V:200:PRO:O	2.69	0.46
7:5:16:ARG:NH1	7:5:21:THR:HG21	2.31	0.46
1:A:217:LYS:HA	1:A:285:THR:CG2	2.45	0.45
1:A:223:LYS:O	1:A:224:PRO:O	2.34	0.45
1:A:487:TYR:HA	1:A:507:ARG:NH2	2.31	0.45
1:A:553:GLY:N	1:B:804:GLN:HE21	2.14	0.45
1:A:721:VAL:HG23	1:A:905:PHE:CD2	2.51	0.45
1:B:652:MET:CB	1:B:654:TYR:CE1	2.97	0.45
1:B:931:PRO:HB2	1:B:932:HIS:CD2	2.52	0.45
1:C:93:VAL:HG11	1:C:630:LEU:HD12	1.98	0.45
1:C:170:GLN:HB2	1:C:185:LYS:HD2	1.97	0.45
1:C:223:LYS:HB3	1:C:224:PRO:HD2	1.96	0.45
1:C:480:TYR:O	1:C:529:MET:CE	2.64	0.45
1:C:545:TYR:O	1:C:547:SER:N	2.49	0.45
1:C:588:ASP:O	1:C:592:ILE:HG12	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:680:PHE:HD2	1:C:718:PHE:CZ	2.34	0.45
1:C:902:ASP:O	1:C:902:ASP:CG	2.54	0.45
1:D:33:ARG:NH2	7:3:15:THR:OG1	2.49	0.45
1:D:367:TYR:O	1:D:367:TYR:CG	2.69	0.45
1:D:552:ASN:OD1	1:D:552:ASN:C	2.53	0.45
1:D:657:PRO:HG2	1:D:660:ALA:CB	2.41	0.45
1:E:676:ARG:CB	1:E:921:GLU:HB2	2.31	0.45
1:E:716:HIS:ND1	1:E:717:THR:CG2	2.70	0.45
1:F:194:GLN:O	1:F:197:PRO:CD	2.56	0.45
1:F:295:THR:HG22	1:F:318:PRO:HA	1.98	0.45
1:F:387:ALA:CB	1:F:546:ARG:HE	2.28	0.45
1:F:409:ASN:ND2	1:F:464:LEU:HG	2.31	0.45
1:F:576:PRO:HG2	1:F:631:GLU:CD	2.36	0.45
1:F:787:TYR:C	1:F:789:ASP:H	2.20	0.45
1:G:121:TYR:O	1:G:226:TYR:O	2.35	0.45
1:G:172:LEU:O	1:G:172:LEU:HD23	2.16	0.45
1:G:202:GLU:HA	1:H:313:VAL:CG1	2.46	0.45
1:G:255:ASP:O	1:G:255:ASP:CG	2.55	0.45
1:G:391:TYR:O	1:G:391:TYR:CD1	2.68	0.45
1:G:537:HIS:C	1:G:539:ARG:H	2.19	0.45
1:G:620:PHE:HA	1:H:778:TYR:CE1	2.51	0.45
1:G:682:ARG:HD3	1:G:714:LEU:CD2	2.46	0.45
1:G:725:PHE:N	1:G:725:PHE:CD1	2.84	0.45
1:H:46:ARG:CG	1:H:46:ARG:NH1	2.51	0.45
1:H:433:ASP:OD1	1:I:169:ASN:HB3	2.17	0.45
1:H:731:TRP:O	1:H:732:PRO:C	2.51	0.45
1:H:749:VAL:CG2	5:R:51:TYR:CE2	2.99	0.45
1:H:798:PHE:CG	1:H:799:GLN:N	2.85	0.45
1:H:937:GLU:N	1:H:937:GLU:OE1	2.49	0.45
1:I:347:GLY:O	1:I:350:SER:C	2.47	0.45
1:I:420:ASN:O	1:I:421:SER:C	2.55	0.45
1:I:720:LYS:O	1:I:721:VAL:HG22	2.16	0.45
1:J:196:GLU:OE2	1:K:823:HIS:HA	2.15	0.45
1:J:229:PHE:HE1	1:K:845:ASN:O	1.99	0.45
1:J:365:LEU:O	1:J:369:LEU:HD13	2.15	0.45
1:J:564:GLN:HE21	1:J:569:ILE:HB	1.81	0.45
1:J:574:LEU:H	1:J:574:LEU:HG	1.51	0.45
1:K:81:LYS:HA	1:K:584:ASN:CB	2.46	0.45
1:K:96:MET:HG2	1:K:569:ILE:O	2.16	0.45
1:K:121:TYR:O	1:K:227:GLY:CA	2.62	0.45
1:K:515:ASP:C	1:K:517:TYR:N	2.69	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:20:ALA:CB	1:L:23:TYR:HE2	2.27	0.45
1:L:157:PHE:CE1	1:L:312:LEU:CD2	2.99	0.45
1:L:227:GLY:HA3	1:L:295:THR:HG21	1.98	0.45
1:L:761:MET:HE2	1:L:761:MET:HB2	1.85	0.45
2:N:123:GLU:CG	2:N:124:TYR:N	2.79	0.45
2:N:325:LYS:N	3:O:6:ARG:NH1	2.64	0.45
2:N:433:LEU:C	2:N:435:ARG:H	2.18	0.45
2:N:499:CYS:O	2:N:501:TYR:N	2.48	0.45
5:P:18:THR:N	5:R:14:SER:O	2.46	0.45
5:R:22:PRO:CB	5:R:24:TRP:CZ2	2.99	0.45
7:4:19:MET:HE2	7:4:19:MET:HA	1.98	0.45
1:A:79:LEU:HD12	1:A:80:TYR:H	1.80	0.45
1:A:275:GLU:CD	1:A:275:GLU:H	2.18	0.45
1:A:412:PHE:CE2	1:C:828:PHE:HD2	2.33	0.45
1:A:474:TYR:HA	1:A:478:ALA:HB3	1.97	0.45
1:A:579:TYR:CD1	1:A:579:TYR:N	2.85	0.45
1:A:780:GLY:N	1:C:98:SER:HB3	2.27	0.45
1:A:799:GLN:O	1:A:801:MET:HE2	2.16	0.45
1:B:68:PHE:CD1	1:B:68:PHE:N	2.85	0.45
1:B:194:GLN:C	1:B:197:PRO:HD2	2.33	0.45
1:B:231:ARG:HG2	1:B:232:PRO:N	2.31	0.45
1:B:351:GLN:NE2	2:N:400:ARG:HE	2.00	0.45
1:B:452:ILE:HG23	1:C:159:VAL:N	2.31	0.45
1:B:604:ASP:CG	1:B:605:GLY:N	2.70	0.45
1:B:636:ASN:ND2	4:M:16:SER:HA	2.30	0.45
1:B:665:ILE:HD11	1:B:918:LEU:HD22	1.98	0.45
1:B:687:GLU:O	1:B:699:PHE:CZ	2.64	0.45
1:C:191:LYS:CG	1:C:194:GLN:HG3	2.46	0.45
1:D:356:VAL:HG11	1:D:952:THR:OG1	2.15	0.45
1:D:392:ASP:OD1	1:D:392:ASP:C	2.55	0.45
1:D:428:ILE:O	1:D:428:ILE:HG13	2.14	0.45
1:D:513:LEU:O	1:D:514:VAL:HG12	2.15	0.45
1:D:888:LEU:HA	1:D:891:ASN:HB2	1.98	0.45
1:E:191:LYS:O	1:E:191:LYS:CG	2.62	0.45
1:E:193:PHE:O	1:E:195:PRO:N	2.49	0.45
1:E:460:MET:CE	1:F:411:CYS:CB	2.93	0.45
1:F:235:GLU:C	1:F:237:GLY:H	2.20	0.45
1:F:241:LYS:CE	1:F:286:GLU:OE2	2.64	0.45
1:F:588:ASP:OD2	1:F:589:VAL:N	2.49	0.45
1:F:706:PRO:CA	1:F:711:THR:HG23	2.44	0.45
1:F:717:THR:O	1:F:717:THR:OG1	2.33	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:774:TYR:CB	1:F:776:ILE:HD13	2.45	0.45
1:G:162:THR:OG1	1:G:163:GLY:N	2.48	0.45
1:G:409:ASN:ND2	1:G:464:LEU:HB2	2.30	0.45
1:G:576:PRO:HD2	1:G:635:ARG:NH2	2.31	0.45
1:G:861:GLN:HE21	1:G:861:GLN:HB2	1.60	0.45
1:H:62:GLN:HE21	1:H:624:HIS:HE1	1.48	0.45
1:H:77:THR:HA	1:H:587:LYS:HZ1	1.81	0.45
1:H:130:PRO:HG3	1:H:312:LEU:HG	1.97	0.45
1:H:135:TRP:CZ2	1:H:309:GLU:CB	2.89	0.45
1:H:192:THR:HG23	1:H:284:TYR:CG	2.52	0.45
1:H:194:GLN:HG3	1:H:195:PRO:CD	2.44	0.45
1:H:786:GLY:O	1:H:789:ASP:OD1	2.34	0.45
1:H:916:LEU:HD13	1:H:918:LEU:H	1.81	0.45
1:I:869:VAL:O	1:I:870:MET:HB2	2.16	0.45
1:J:20:ALA:H	1:J:47:ASN:HB3	1.80	0.45
1:J:81:LYS:HG2	1:J:81:LYS:O	2.16	0.45
1:J:99:THR:HA	1:J:616:TYR:O	2.16	0.45
1:J:408:PRO:O	1:J:410:TYR:CE1	2.69	0.45
1:J:457:VAL:HG21	1:L:827:GLY:O	2.15	0.45
1:K:25:SER:HB3	1:L:639:HIS:HE2	1.81	0.45
1:K:53:THR:O	1:K:53:THR:OG1	2.35	0.45
1:K:149:GLN:HG3	1:K:150:GLU:N	2.29	0.45
1:K:224:PRO:HB3	1:K:314:GLN:O	2.17	0.45
1:K:372:ASP:OD1	1:K:373:SER:N	2.49	0.45
1:K:678:TRP:CD1	1:K:903:MET:HE1	2.52	0.45
1:K:687:GLU:CB	1:K:701:TYR:CE2	2.99	0.45
1:L:99:THR:O	1:L:100:TYR:C	2.54	0.45
1:L:337:ASN:ND2	1:L:361:ARG:HB3	2.30	0.45
1:L:422:THR:C	1:L:450:ASN:O	2.53	0.45
1:L:640:ASP:HB2	1:L:929:HIS:HA	1.97	0.45
1:L:656:ILE:HG22	1:L:914:THR:C	2.37	0.45
1:L:705:ILE:O	1:L:705:ILE:CG1	2.64	0.45
2:N:385:VAL:HG22	2:N:416:MET:HG3	1.98	0.45
4:M:167:ARG:HA	4:M:167:ARG:HD3	1.75	0.45
4:M:246:VAL:HG12	4:M:249:ASN:H	1.81	0.45
4:M:273:PHE:HE1	4:M:290:SER:HB2	1.76	0.45
4:M:319:ILE:HG21	4:M:363:LYS:HG3	1.97	0.45
5:R:82:MET:CG	5:R:82:MET:O	2.59	0.45
6:U:4:GLU:O	6:U:6:PRO:CD	2.53	0.45
6:U:168:TYR:HB3	7:1:31:ASN:CB	2.45	0.45
6:U:205:PRO:HA	6:U:208:TYR:CZ	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:159:VAL:HG21	1:B:841:PRO:CD	2.45	0.45
1:A:380:TYR:H	1:A:380:TYR:HD1	1.57	0.45
1:A:480:TYR:CE1	1:A:537:HIS:CE1	3.04	0.45
1:A:554:ARG:HG2	1:A:554:ARG:HH11	1.81	0.45
1:B:371:LEU:HD23	1:B:371:LEU:HA	1.73	0.45
1:B:533:ASN:HA	1:B:534:PRO:HD3	1.77	0.45
1:B:564:GLN:HE21	1:B:564:GLN:HA	1.81	0.45
1:B:575:LEU:HD11	1:B:634:LEU:HB3	1.97	0.45
1:B:771:LEU:CD1	1:B:880:MET:CE	2.94	0.45
1:B:831:TYR:CD2	1:B:832:LEU:CG	2.98	0.45
1:C:131:ASN:OD1	1:C:225:CYS:HA	2.17	0.45
1:C:335:TYR:OH	1:C:694:GLY:HA2	2.16	0.45
1:C:480:TYR:CE2	1:C:537:HIS:CE1	3.04	0.45
1:C:481:LEU:O	1:C:482:PRO:C	2.54	0.45
1:D:314:GLN:HE21	1:D:314:GLN:HB3	1.25	0.45
1:D:440:TRP:CZ3	1:E:276:GLU:HB2	2.51	0.45
1:D:705:ILE:CD1	1:D:708:LEU:HD12	2.30	0.45
1:E:200:GLY:C	1:E:202:GLU:H	2.20	0.45
1:E:309:GLU:C	1:E:311:ASN:H	2.19	0.45
1:E:462:ILE:HG22	1:F:411:CYS:SG	2.40	0.45
1:F:177:ASP:O	1:F:180:ALA:N	2.44	0.45
1:F:196:GLU:N	1:F:197:PRO:CD	2.79	0.45
1:F:483:ASP:HA	1:F:486:LYS:HD3	1.98	0.45
1:F:575:LEU:HD11	1:F:634:LEU:HD22	1.99	0.45
1:F:745:ILE:HG22	1:F:746:LYS:N	2.31	0.45
1:G:50:VAL:CG1	1:H:890:GLN:NE2	2.80	0.45
1:G:91:ASN:HD22	1:G:91:ASN:N	2.12	0.45
1:G:453:CYS:O	1:G:453:CYS:SG	2.74	0.45
1:G:748:SER:HB3	1:G:760:ASN:HD22	1.81	0.45
1:G:951:THR:O	1:G:952:THR:OXT	2.34	0.45
1:H:118:GLY:HA2	1:H:318:PRO:CG	2.46	0.45
1:H:201:GLU:HG3	1:H:202:GLU:HG3	1.98	0.45
1:H:343:GLY:HA3	1:H:583:TRP:CE3	2.51	0.45
1:H:575:LEU:HD13	1:H:575:LEU:HA	1.78	0.45
1:H:918:LEU:HD21	1:H:920:PHE:CD2	2.51	0.45
1:I:56:VAL:HG13	1:I:57:THR:HG22	1.98	0.45
1:J:106:VAL:HG22	1:J:106:VAL:O	2.15	0.45
1:J:499:ASN:O	1:J:504:MET:HE3	2.16	0.45
1:J:517:TYR:HA	1:J:520:ILE:HG23	1.99	0.45
1:J:708:LEU:HD23	1:J:708:LEU:C	2.36	0.45
1:J:925:VAL:CG1	1:L:46:ARG:HH22	2.18	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:216:LEU:N	1:K:216:LEU:HD23	2.30	0.45
1:K:236:LYS:HD2	1:K:236:LYS:HA	1.81	0.45
1:K:390:SER:O	1:K:540:ASN:ND2	2.50	0.45
1:K:602:ARG:HH12	1:K:697:PRO:HA	1.80	0.45
1:L:79:LEU:N	1:L:79:LEU:CD1	2.75	0.45
1:L:135:TRP:CZ3	1:L:156:THR:CG2	3.00	0.45
1:L:707:TYR:CD2	1:L:708:LEU:HB3	2.48	0.45
2:N:251:LEU:HD12	2:N:377:ASP:O	2.15	0.45
3:O:4:ARG:O	3:O:5:LEU:HD23	2.16	0.45
4:M:73:LEU:O	4:M:73:LEU:HG	2.17	0.45
4:M:316:GLU:O	4:M:318:ARG:N	2.39	0.45
5:P:18:THR:HB	5:R:15:PRO:C	2.37	0.45
7:6:3:ASP:CG	7:6:4:ILE:N	2.69	0.45
1:A:31:PHE:CD2	1:A:32:ALA:N	2.84	0.45
1:A:124:LEU:HD11	1:B:470:LYS:CE	2.46	0.45
1:A:159:VAL:HG21	1:B:841:PRO:CG	2.46	0.45
1:A:344:VAL:CG1	1:A:582:GLU:HB3	2.47	0.45
1:A:428:ILE:CA	1:A:438:SER:HA	2.46	0.45
1:A:508:VAL:CG2	1:A:834:PRO:HD2	2.47	0.45
1:A:514:VAL:HB	1:A:526:LEU:CD2	2.46	0.45
1:A:715:ASN:HD21	1:A:870:MET:H	1.63	0.45
1:B:99:THR:O	1:B:100:TYR:HB3	2.17	0.45
1:B:107:LEU:HD12	1:B:608:VAL:HG13	1.97	0.45
1:B:405:ASP:OD1	1:B:405:ASP:O	2.34	0.45
1:B:808:GLU:CG	1:B:814:TYR:CG	2.99	0.45
1:C:246:ASN:ND2	1:C:252:LYS:CG	2.68	0.45
1:C:731:TRP:CZ2	1:C:888:LEU:HD12	2.50	0.45
1:C:856:VAL:HG23	1:C:857:PRO:HD2	1.97	0.45
1:D:124:LEU:HD11	1:E:470:LYS:HD3	1.97	0.45
1:D:288:VAL:HG13	1:D:290:LEU:HB2	1.97	0.45
1:D:462:ILE:HB	1:E:411:CYS:HB3	1.98	0.45
1:E:31:PHE:CZ	1:F:630:LEU:HB2	2.51	0.45
1:E:103:ILE:HG23	1:E:610:PHE:CD2	2.24	0.45
1:E:216:LEU:HD23	1:E:216:LEU:N	2.31	0.45
1:E:744:GLU:O	1:E:765:TRP:CB	2.61	0.45
1:F:65:THR:HB	1:F:618:THR:CG2	2.44	0.45
1:F:872:ARG:HE	1:F:872:ARG:HB2	1.45	0.45
1:G:53:THR:CG2	1:G:54:HIS:N	2.79	0.45
1:G:56:VAL:HG22	7:6:24:GLU:CG	2.46	0.45
1:G:242:PHE:CD2	1:G:242:PHE:N	2.82	0.45
1:G:422:THR:O	1:H:264:PRO:HD2	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:696:ASP:C	1:G:698:TYR:N	2.70	0.45
1:G:792:TYR:HE1	1:G:868:ARG:HD2	1.82	0.45
1:G:801:MET:O	1:G:863:LYS:O	2.35	0.45
1:G:853:GLN:HA	1:I:554:ARG:HH11	1.81	0.45
1:H:72:ASP:HB3	1:L:71:VAL:HG23	1.98	0.45
1:H:201:GLU:CG	1:H:202:GLU:N	2.79	0.45
1:H:486:LYS:NZ	1:H:509:VAL:HG11	2.32	0.45
1:H:700:VAL:O	1:H:700:VAL:HG23	2.17	0.45
1:H:707:TYR:C	1:H:709:ASP:N	2.69	0.45
1:I:88:VAL:O	1:I:89:GLY:O	2.33	0.45
1:I:155:LYS:HD2	1:I:285:THR:HG21	1.99	0.45
1:I:448:ARG:CG	1:I:449:GLN:N	2.77	0.45
1:J:27:GLY:HA3	1:K:633:MET:HE1	1.97	0.45
1:J:165:ILE:HD12	1:J:175:GLY:HA2	1.98	0.45
1:J:651:ASN:CB	1:J:919:LEU:HB3	2.46	0.45
1:J:685:THR:OG1	1:J:915:LEU:CD1	2.63	0.45
1:J:807:ASP:HB3	1:J:859:VAL:HG12	1.99	0.45
1:J:854:THR:HG21	1:L:291:GLU:OE2	2.17	0.45
1:K:110:GLY:HA2	1:K:605:GLY:O	2.16	0.45
1:K:194:GLN:O	1:K:196:GLU:HG2	2.16	0.45
1:K:413:PRO:HD3	1:K:458:TYR:O	2.17	0.45
1:K:589:VAL:HG23	1:K:593:LEU:CD1	2.38	0.45
1:K:682:ARG:NE	1:K:914:THR:HG21	2.31	0.45
1:K:774:TYR:C	1:K:776:ILE:N	2.69	0.45
1:K:819:LEU:C	1:K:819:LEU:CD2	2.78	0.45
1:L:78:TYR:HA	1:L:587:LYS:HB3	1.99	0.45
1:L:190:ASP:CG	1:L:191:LYS:H	2.18	0.45
1:L:533:ASN:ND2	1:L:535:PHE:HB2	2.28	0.45
2:N:100:PHE:CE2	2:N:483:ILE:HD11	2.49	0.45
2:N:231:PRO:HD2	2:N:376:PRO:HG3	1.98	0.45
5:P:7:ALA:O	5:P:8:PHE:CG	2.70	0.45
6:V:19:LEU:HD21	6:V:72:ARG:CA	2.45	0.45
6:V:72:ARG:HD2	6:V:72:ARG:HA	1.51	0.45
1:A:134:GLN:HG3	1:A:135:TRP:N	2.31	0.45
1:A:234:ASN:C	1:A:236:LYS:N	2.70	0.45
1:A:277:TYR:CD1	1:A:278:LYS:C	2.90	0.45
1:A:533:ASN:CG	1:A:713:TYR:HE2	2.13	0.45
1:A:607:SER:O	1:A:607:SER:OG	2.28	0.45
1:A:623:ALA:C	1:A:625:ASN:N	2.69	0.45
1:A:631:GLU:O	1:A:635:ARG:CG	2.64	0.45
1:A:706:PRO:CB	1:A:711:THR:O	2.60	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:187:ILE:H	1:B:191:LYS:HD3	1.82	0.45
1:C:66:LEU:HD12	1:C:619:PHE:HE1	1.58	0.45
1:C:263:VAL:CG1	1:C:264:PRO:CD	2.91	0.45
1:C:335:TYR:CD1	1:C:586:ARG:NH1	2.84	0.45
1:D:10:TRP:HH2	1:E:943:THR:HG21	1.20	0.45
1:D:135:TRP:H	1:D:154:THR:HG1	1.63	0.45
1:D:218:LYS:C	1:D:220:THR:H	2.20	0.45
1:D:438:SER:HG	1:E:278:LYS:HG2	1.78	0.45
1:D:482:PRO:HD2	1:D:485:TYR:CE2	2.52	0.45
1:D:723:ILE:HD13	1:D:903:MET:HE2	1.97	0.45
1:D:823:HIS:HA	1:F:196:GLU:OE2	2.15	0.45
1:E:254:LEU:HD12	1:E:256:ILE:HD11	1.99	0.45
1:E:310:ILE:O	1:E:313:VAL:HG23	2.17	0.45
1:E:502:GLU:HG3	1:E:503:TYR:N	2.30	0.45
1:F:153:VAL:CG1	1:F:153:VAL:O	2.51	0.45
1:F:185:LYS:HE3	1:F:185:LYS:HB2	1.72	0.45
1:F:432:ASN:OD1	1:F:432:ASN:C	2.54	0.45
1:F:572:LEU:HD13	1:F:928:VAL:HG21	1.99	0.45
1:G:49:THR:HG1	7:6:21:THR:HB	1.72	0.45
1:G:380:TYR:HE1	1:G:387:ALA:HB1	1.77	0.45
1:G:479:LEU:HA	1:G:509:VAL:HG21	1.98	0.45
1:G:512:SER:OG	1:G:819:LEU:HD21	2.16	0.45
1:G:819:LEU:N	1:G:820:PRO:CD	2.80	0.45
1:H:36:ASP:O	1:H:37:THR:C	2.54	0.45
1:H:74:GLU:CG	1:H:74:GLU:O	2.64	0.45
1:H:177:ASP:HB2	1:H:184:LYS:HE2	1.97	0.45
1:H:437:GLU:OE1	1:H:437:GLU:HA	2.15	0.45
1:H:519:ASN:O	1:H:522:ALA:HB3	2.16	0.45
1:I:640:ASP:CB	1:I:929:HIS:HA	2.46	0.45
1:J:29:VAL:C	1:J:31:PHE:H	2.19	0.45
1:J:38:TYR:HE1	1:K:56:VAL:HG12	1.62	0.45
1:J:135:TRP:N	1:J:154:THR:HG23	2.32	0.45
1:J:341:ASN:HB2	1:J:584:ASN:OD1	2.17	0.45
1:J:443:ASP:O	1:K:150:GLU:HB3	2.16	0.45
1:J:529:MET:SD	1:J:529:MET:C	2.95	0.45
1:J:554:ARG:CG	1:J:554:ARG:NH1	2.79	0.45
1:J:568:ALA:O	1:J:569:ILE:HD13	2.17	0.45
1:J:662:ASN:HD21	5:Q:19:THR:HG21	1.81	0.45
1:J:677:GLY:N	1:J:921:GLU:CG	2.54	0.45
1:J:764:ASP:N	1:J:764:ASP:OD1	2.49	0.45
1:K:682:ARG:HH21	1:K:914:THR:CG2	2.18	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:686:LYS:HG2	1:K:686:LYS:O	2.17	0.45
1:K:705:ILE:HB	1:K:708:LEU:HD22	1.98	0.45
1:K:818:THR:CG2	1:K:820:PRO:HD2	2.47	0.45
1:L:26:PRO:HA	1:L:29:VAL:CG2	2.47	0.45
1:L:114:LYS:HZ1	1:L:319:ASN:HB2	1.81	0.45
1:L:173:LEU:HB2	1:L:185:LYS:HZ2	1.82	0.45
1:L:382:SER:HB2	1:L:549:LEU:HD21	1.98	0.45
2:N:416:MET:CE	2:N:499:CYS:CB	2.95	0.45
5:R:12:LEU:HG	5:R:17:LEU:HG	1.99	0.45
6:U:2:SER:HB3	6:U:200:PRO:CG	2.44	0.45
6:U:197:TYR:HE1	6:U:209:PRO:CD	2.30	0.45
6:U:213:ILE:HG13	6:U:213:ILE:O	2.16	0.45
6:V:61:VAL:O	6:V:61:VAL:CG1	2.64	0.45
1:A:101:PHE:HB2	1:A:562:VAL:HG22	1.98	0.45
1:A:142:GLY:HA3	1:A:147:VAL:HG22	1.99	0.45
1:A:361:ARG:O	1:A:361:ARG:HD2	2.17	0.45
1:A:417:THR:O	1:A:419:THR:N	2.48	0.45
1:A:576:PRO:HG3	1:A:631:GLU:OE2	2.17	0.45
1:A:912:GLU:O	1:A:913:PRO:C	2.54	0.45
1:B:41:LEU:CD2	1:C:630:LEU:HD21	2.46	0.45
1:B:69:VAL:HG23	1:B:70:PRO:CD	2.32	0.45
1:B:103:ILE:CG2	1:B:610:PHE:HD2	2.30	0.45
1:B:155:LYS:CE	1:B:261:PHE:HE1	2.30	0.45
1:B:724:MET:SD	1:B:728:SER:O	2.74	0.45
1:C:356:VAL:HG21	1:C:940:TYR:HD1	1.81	0.45
1:C:638:THR:O	1:C:638:THR:CG2	2.60	0.45
1:C:713:TYR:C	1:C:715:ASN:H	2.20	0.45
1:C:943:THR:HB	1:C:944:PRO:CD	2.46	0.45
1:D:187:ILE:C	1:D:189:ALA:N	2.70	0.45
1:D:262:ASP:OD1	1:D:263:VAL:O	2.35	0.45
1:D:278:LYS:O	1:D:278:LYS:HG3	2.16	0.45
1:D:305:ASP:O	1:D:306:ASN:ND2	2.49	0.45
1:D:395:VAL:HG21	1:D:476:ASN:HB3	1.98	0.45
1:D:767:LEU:O	1:D:767:LEU:HG	2.14	0.45
1:D:836:MET:HE3	1:F:203:ASN:HB3	1.98	0.45
1:E:53:THR:HG23	7:3:25:ILE:HD11	1.99	0.45
1:E:230:ALA:HB3	1:E:239:GLN:NE2	2.32	0.45
1:E:589:VAL:HG22	1:E:601:LEU:HB2	1.97	0.45
1:E:691:LEU:HD11	1:E:708:LEU:HD23	1.99	0.45
1:E:745:ILE:CG1	1:E:765:TRP:CD2	2.98	0.45
1:E:824:ASN:C	1:E:826:SER:N	2.68	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:828:PHE:CZ	1:E:841:PRO:HG3	2.52	0.45
1:F:201:GLU:CG	1:F:202:GLU:N	2.80	0.45
1:F:241:LYS:HE2	1:F:286:GLU:HG3	1.98	0.45
1:F:267:SER:HB3	1:F:268:PRO:CD	2.38	0.45
1:F:364:GLU:OE1	1:F:565:LYS:HE2	2.17	0.45
1:F:465:GLN:H	1:F:465:GLN:HG2	1.41	0.45
1:F:489:PRO:HG2	1:F:492:VAL:CG2	2.42	0.45
1:F:666:SER:C	1:F:667:ILE:HG23	2.37	0.45
1:F:755:ASN:O	1:F:757:ALA:O	2.35	0.45
1:F:882:MET:CB	7:3:23:ASN:HD21	2.27	0.45
1:G:22:GLU:H	1:G:22:GLU:HG3	1.33	0.45
1:G:124:LEU:HD11	1:H:470:LYS:HD3	1.98	0.45
1:G:218:LYS:O	1:G:307:SER:CB	2.65	0.45
1:G:267:SER:N	1:G:268:PRO:CD	2.80	0.45
1:G:345:LEU:HD21	1:G:936:ILE:CD1	2.47	0.45
1:G:411:CYS:SG	1:G:460:MET:HB2	2.56	0.45
1:G:417:THR:HG21	1:G:419:THR:HB	1.95	0.45
1:G:427:LYS:HG2	1:G:439:GLU:HB3	1.99	0.45
1:G:502:GLU:CD	1:G:502:GLU:C	2.75	0.45
1:H:25:SER:CB	1:I:639:HIS:NE2	2.78	0.45
1:H:214:ARG:NH2	1:H:241:LYS:NZ	2.64	0.45
1:H:480:TYR:HH	1:H:538:PRO:HD3	1.81	0.45
1:H:565:LYS:HG2	1:H:565:LYS:O	2.16	0.45
1:H:575:LEU:O	1:H:576:PRO:C	2.55	0.45
1:H:766:PHE:C	1:H:768:VAL:H	2.20	0.45
1:H:923:PHE:N	1:H:943:THR:HG23	2.32	0.45
1:H:950:ALA:HB1	1:J:892:MET:HE1	1.98	0.45
1:I:94:LEU:HD23	1:I:574:LEU:CD2	2.38	0.45
1:I:333:LEU:CD2	1:I:562:VAL:HG21	2.47	0.45
1:I:499:ASN:ND2	1:I:499:ASN:N	2.64	0.45
1:J:289:ASN:O	1:J:291:GLU:HG3	2.16	0.45
1:J:416:GLY:O	1:J:457:VAL:CG1	2.64	0.45
1:J:503:TYR:O	1:J:507:ARG:HG3	2.16	0.45
1:J:915:LEU:N	1:J:915:LEU:CD1	2.79	0.45
1:K:155:LYS:HG2	1:K:158:GLY:HA2	1.98	0.45
1:K:213:GLY:C	1:K:214:ARG:HG3	2.37	0.45
1:K:222:MET:HE1	1:K:312:LEU:HD12	1.99	0.45
1:K:397:ILE:HG23	1:K:865:LEU:HD12	1.99	0.45
1:K:641:GLN:H	1:K:641:GLN:HG2	1.52	0.45
1:K:709:ASP:OD1	1:K:711:THR:CG2	2.51	0.45
1:K:749:VAL:O	1:K:750:ASP:HB3	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:943:THR:CB	1:K:944:PRO:HD3	2.46	0.45
1:L:689:PRO:HG2	1:L:691:LEU:HD21	1.99	0.45
1:L:723:ILE:CG2	1:L:901:LEU:HD12	2.46	0.45
2:N:226:TYR:O	2:N:226:TYR:CG	2.67	0.45
2:N:378:VAL:HG22	2:N:463:THR:CG2	2.46	0.45
2:N:405:VAL:O	2:N:405:VAL:HG23	2.16	0.45
2:N:416:MET:HE3	2:N:499:CYS:HB2	1.99	0.45
4:M:350:GLU:N	4:M:351:PRO:CD	2.80	0.45
5:P:15:PRO:HB3	5:R:15:PRO:CA	2.46	0.45
5:S:50:THR:HG23	5:S:53:THR:HG21	1.99	0.45
1:A:451:GLN:C	1:A:452:ILE:HG13	2.37	0.45
1:A:456:ASN:ND2	1:C:838:GLN:CA	2.32	0.45
1:B:2:ALA:HB1	6:U:82:GLU:OE2	2.15	0.45
1:B:188:TYR:CB	1:B:192:THR:HG21	2.46	0.45
1:B:383:MET:HG3	1:C:756:VAL:HG23	1.99	0.45
1:B:449:GLN:HG3	1:B:450:ASN:N	2.32	0.45
1:B:616:TYR:CE2	1:C:763:LYS:HD2	2.52	0.45
1:B:635:ARG:NH1	1:B:932:HIS:C	2.69	0.45
1:B:687:GLU:C	1:B:699:PHE:HE1	2.15	0.45
1:C:60:ARG:CD	6:U:98:GLU:OE2	2.61	0.45
1:C:80:TYR:O	1:C:585:PHE:N	2.29	0.45
1:C:172:LEU:O	1:C:172:LEU:HG	2.17	0.45
1:C:188:TYR:CD1	1:C:188:TYR:C	2.88	0.45
1:C:651:ASN:ND2	1:C:917:TYR:CE1	2.84	0.45
1:C:724:MET:HA	1:C:729:VAL:HA	1.99	0.45
1:D:155:LYS:HD2	1:D:261:PHE:CZ	2.50	0.45
1:D:413:PRO:HD3	1:D:458:TYR:O	2.16	0.45
1:D:462:ILE:HB	1:E:411:CYS:CB	2.46	0.45
1:D:540:ASN:O	1:D:544:ARG:HG2	2.17	0.45
1:D:600:ASP:OD1	1:D:603:VAL:HG23	2.17	0.45
1:E:100:TYR:CD1	1:E:561:GLN:HB2	2.52	0.45
1:E:221:LYS:O	1:E:290:LEU:HD23	2.16	0.45
1:E:257:ASP:OD2	1:E:285:THR:O	2.35	0.45
1:E:398:ILE:HD11	1:E:473:LEU:HD11	1.99	0.45
1:E:440:TRP:CD2	1:F:276:GLU:OE2	2.69	0.45
1:E:593:LEU:HD12	1:E:593:LEU:O	2.16	0.45
1:F:309:GLU:N	1:F:309:GLU:OE1	2.50	0.45
1:F:602:ARG:NH1	1:F:697:PRO:O	2.50	0.45
1:F:682:ARG:NH1	1:F:907:VAL:CG1	2.80	0.45
1:F:694:GLY:O	1:F:695:PHE:C	2.54	0.45
1:G:54:HIS:HB3	1:G:55:ASP:OD2	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:443:ASP:CG	1:H:150:GLU:CG	2.72	0.45
1:G:589:VAL:O	1:G:589:VAL:CG2	2.64	0.45
1:G:644:ASN:HD22	1:I:46:ARG:HD2	1.80	0.45
1:H:214:ARG:HH22	1:H:241:LYS:HE2	1.80	0.45
1:H:372:ASP:HA	1:H:377:ARG:CG	2.45	0.45
1:H:523:ARG:O	1:H:801:MET:HB2	2.16	0.45
1:H:698:TYR:O	1:H:700:VAL:HG13	2.17	0.45
1:I:324:ILE:HG22	1:I:325:GLY:N	2.32	0.45
1:I:477:VAL:O	1:I:480:TYR:HB2	2.17	0.45
1:I:842:TYR:CZ	1:I:843:PRO:HD2	2.52	0.45
1:J:12:TYR:O	1:J:12:TYR:CD1	2.70	0.45
1:J:16:ALA:O	1:J:48:PRO:HG3	2.17	0.45
1:J:64:LEU:HD11	1:J:621:PRO:CG	2.46	0.45
1:J:151:LYS:HE3	1:J:218:LYS:HZ2	1.82	0.45
1:J:413:PRO:HG2	1:J:417:THR:CA	2.47	0.45
1:J:517:TYR:O	1:J:520:ILE:CG1	2.44	0.45
1:J:537:HIS:CG	1:J:538:PRO:HD2	2.51	0.45
1:J:836:MET:HE2	1:L:203:ASN:HB3	1.99	0.45
1:J:839:GLY:C	1:L:198:GLN:CD	2.76	0.45
1:K:6:MET:O	6:V:184:GLY:HA3	2.16	0.45
1:K:370:LEU:CD1	1:K:646:TYR:CG	2.79	0.45
1:K:450:ASN:OD1	1:L:155:LYS:O	2.35	0.45
1:K:859:VAL:HG22	1:K:860:THR:N	2.31	0.45
1:L:76:THR:CG2	1:L:77:THR:N	2.60	0.45
1:L:298:VAL:CG1	1:L:317:MET:HG2	2.47	0.45
1:L:480:TYR:HH	1:L:538:PRO:HD3	1.74	0.45
1:L:531:ASN:CB	1:L:714:LEU:CD1	2.92	0.45
1:L:561:GLN:CA	1:L:561:GLN:NE2	2.80	0.45
1:L:682:ARG:HG3	1:L:682:ARG:HH11	1.80	0.45
2:N:39:ARG:HH22	2:N:518:THR:CG2	2.29	0.45
2:N:89:THR:C	2:N:91:ALA:H	2.20	0.45
2:N:112:THR:C	2:N:113:ILE:HD12	2.36	0.45
5:Q:52:ALA:O	5:Q:54:VAL:N	2.50	0.45
7:2:16:ARG:HA	7:2:17:PRO:HD2	1.76	0.45
1:A:109:ARG:HB3	1:A:113:PHE:HB2	1.99	0.45
1:A:109:ARG:NH2	1:A:550:LEU:HB2	2.32	0.45
1:A:230:ALA:HB1	1:A:288:VAL:HG22	1.98	0.45
1:A:298:VAL:CG2	1:A:317:MET:HG2	2.47	0.45
1:A:412:PHE:CD2	1:C:828:PHE:HD2	2.35	0.45
1:A:428:ILE:CD1	1:A:433:ASP:OD1	2.65	0.45
1:A:683:LEU:CD1	1:A:707:TYR:HB2	2.45	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:756:VAL:HG13	1:C:383:MET:SD	2.57	0.45
1:A:886:THR:HG22	1:A:887:ASP:H	1.82	0.45
1:B:197:PRO:CA	1:C:831:TYR:CE1	2.99	0.45
1:B:327:ARG:NH2	1:B:705:ILE:HG13	2.32	0.45
1:B:401:HIS:O	1:B:402:GLY:C	2.53	0.45
1:B:410:TYR:HA	1:B:461:GLU:HB3	1.96	0.45
1:B:440:TRP:CZ3	1:B:446:ILE:CG1	2.87	0.45
1:B:635:ARG:HH22	1:B:933:ARG:CG	2.25	0.45
1:B:790:ARG:NH1	1:B:790:ARG:CB	2.79	0.45
1:B:903:MET:O	1:B:903:MET:CG	2.56	0.45
1:C:47:ASN:OD1	7:2:7:ALA:CB	2.65	0.45
1:C:329:ASN:HA	1:C:385:ASN:O	2.17	0.45
1:C:748:SER:CB	1:C:760:ASN:HD22	2.20	0.45
1:C:842:TYR:CD2	1:C:843:PRO:N	2.85	0.45
1:C:881:SER:O	1:C:881:SER:OG	2.29	0.45
1:E:16:ALA:HA	1:E:48:PRO:HB3	1.99	0.45
1:E:732:PRO:O	1:E:736:ARG:HB2	2.16	0.45
1:E:924:ASP:HB3	1:E:942:ARG:CD	2.47	0.45
1:F:370:LEU:HA	1:F:646:TYR:CE1	2.52	0.45
1:F:441:GLU:HA	1:F:446:ILE:HD13	1.99	0.45
1:F:575:LEU:CB	1:F:576:PRO:HD2	2.34	0.45
1:F:629:THR:CG2	1:F:630:LEU:N	2.80	0.45
1:F:680:PHE:CD2	1:F:905:PHE:CZ	3.05	0.45
1:F:684:LYS:HD3	1:F:912:GLU:OE2	2.17	0.45
1:F:705:ILE:HD11	1:F:708:LEU:CD1	2.47	0.45
1:G:91:ASN:N	1:G:91:ASN:ND2	2.64	0.45
1:G:154:THR:HG23	1:G:155:LYS:HG2	1.98	0.45
1:G:427:LYS:HG2	1:G:439:GLU:CB	2.47	0.45
1:G:554:ARG:HG2	1:G:555:TYR:CZ	2.52	0.45
1:G:725:PHE:O	1:G:726:ASP:C	2.54	0.45
1:H:104:ARG:O	1:H:104:ARG:CG	2.65	0.45
1:H:138:LYS:CD	1:H:149:GLN:OE1	2.64	0.45
1:H:327:ARG:HG3	1:H:331:VAL:O	2.16	0.45
1:H:638:THR:CG2	1:H:639:HIS:N	2.80	0.45
1:H:916:LEU:HD13	1:H:918:LEU:N	2.32	0.45
1:I:132:PRO:CB	1:I:215:ALA:HA	2.44	0.45
1:I:160:ALA:CB	1:I:213:GLY:HA3	2.47	0.45
1:I:348:GLN:HG2	1:I:348:GLN:O	2.15	0.45
1:J:23:TYR:C	1:J:23:TYR:CD1	2.90	0.45
1:J:40:SER:H	1:L:779:GLN:HE22	1.63	0.45
1:J:203:ASN:C	1:J:205:GLN:H	2.19	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:415:ASN:O	1:K:130:PRO:HD2	2.16	0.45
1:J:779:GLN:HE21	1:J:779:GLN:N	2.15	0.45
1:K:111:PRO:HB3	1:L:853:GLN:HB3	1.98	0.45
1:K:501:TYR:HE1	1:K:597:LEU:CD2	2.30	0.45
1:K:936:ILE:CG2	1:K:937:GLU:N	2.80	0.45
1:L:134:GLN:CG	1:L:155:LYS:N	2.57	0.45
1:L:478:ALA:O	1:L:480:TYR:N	2.37	0.45
1:L:608:VAL:HG22	1:L:609:ARG:CG	2.47	0.45
1:L:852:GLY:C	1:L:854:THR:H	2.19	0.45
2:N:80:THR:OG1	2:N:81:THR:N	2.48	0.45
4:M:299:LEU:O	6:U:50:HIS:CE1	2.70	0.45
5:P:28:ARG:HB3	5:P:31:VAL:HG23	1.92	0.45
5:P:123:SER:HA	5:P:126:ARG:HD2	1.99	0.45
6:U:13:TYR:CD1	6:U:188:PHE:CE2	2.99	0.45
7:4:18:PHE:O	7:4:19:MET:HE2	2.17	0.45
8:Y:4:UNK:O	8:Y:5:UNK:C	2.64	0.45
1:A:81:LYS:HA	1:A:584:ASN:HA	1.99	0.45
1:A:103:ILE:HG22	1:A:610:PHE:HD2	1.81	0.45
1:A:213:GLY:O	1:A:284:TYR:HD1	1.99	0.45
1:A:280:ASP:OD1	1:A:281:ILE:N	2.50	0.45
1:A:510:ALA:CB	1:A:832:LEU:CD1	2.80	0.45
1:A:730:SER:OG	1:A:732:PRO:HG2	2.17	0.45
1:A:813:ASP:O	1:A:813:ASP:OD2	2.31	0.45
1:B:13:MET:CG	1:C:941:LEU:HD22	2.47	0.45
1:B:203:ASN:HA	1:B:206:GLU:OE2	2.16	0.45
1:B:244:PRO:HD3	1:B:254:LEU:C	2.37	0.45
1:B:368:GLN:NE2	1:B:377:ARG:HH22	2.15	0.45
1:B:472:PHE:CE1	1:B:539:ARG:CZ	2.88	0.45
1:C:21:SER:HB2	7:2:11:PRO:CD	2.47	0.45
1:C:25:SER:O	1:C:27:GLY:N	2.49	0.45
1:C:172:LEU:HD23	1:C:174:LEU:CD2	2.46	0.45
1:C:241:LYS:CD	1:C:256:ILE:CG1	2.95	0.45
1:C:527:ASP:OD1	1:C:863:LYS:CE	2.65	0.45
1:C:636:ASN:HB3	1:C:639:HIS:CE1	2.52	0.45
1:C:684:LYS:NZ	1:C:912:GLU:CG	2.77	0.45
1:C:811:TYR:CD1	1:C:857:PRO:CD	2.88	0.45
1:C:831:TYR:H	1:C:838:GLN:HE21	1.65	0.45
1:D:153:VAL:HG22	1:F:449:GLN:HG3	1.99	0.45
1:D:165:ILE:HA	1:D:165:ILE:HD13	1.55	0.45
1:E:90:ASP:O	1:E:92:ARG:HG2	2.17	0.45
1:E:124:LEU:HB2	1:F:825:ASN:OD1	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:170:GLN:CG	1:E:185:LYS:HE3	2.47	0.45
1:E:309:GLU:C	1:E:311:ASN:N	2.70	0.45
1:E:365:LEU:C	1:E:367:TYR:H	2.21	0.45
1:E:476:ASN:O	1:E:480:TYR:HD2	2.00	0.45
1:E:515:ASP:O	1:E:518:ILE:HG23	2.17	0.45
1:F:154:THR:CG2	1:F:155:LYS:HE3	2.46	0.45
1:F:188:TYR:O	1:F:256:ILE:HD12	2.16	0.45
1:F:193:PHE:O	1:F:194:GLN:C	2.54	0.45
1:F:194:GLN:C	1:F:196:GLU:N	2.69	0.45
1:F:308:SER:OG	1:F:310:ILE:HG22	2.17	0.45
1:F:372:ASP:OD1	1:F:372:ASP:C	2.55	0.45
1:F:384:TRP:CE3	1:F:563:PRO:HD3	2.52	0.45
1:F:419:THR:O	1:F:419:THR:HG23	2.17	0.45
1:F:652:MET:CE	5:R:20:ARG:HD3	2.44	0.45
1:F:652:MET:HE1	5:R:20:ARG:NH1	2.26	0.45
1:F:811:TYR:CE1	1:F:856:VAL:CG2	2.99	0.45
1:G:67:ARG:HD2	1:G:616:TYR:CE2	2.41	0.45
1:G:534:PRO:HD2	1:G:713:TYR:CG	2.51	0.45
1:G:676:ARG:HD2	1:G:884:ALA:O	2.16	0.45
1:G:685:THR:CG2	1:G:686:LYS:N	2.79	0.45
1:G:725:PHE:O	1:G:728:SER:HB2	2.17	0.45
1:G:780:GLY:N	1:I:98:SER:HB3	2.32	0.45
1:H:242:PHE:CD1	1:H:287:ASN:HB3	2.52	0.45
1:H:345:LEU:H	1:H:355:VAL:CG2	2.30	0.45
1:H:453:CYS:O	1:I:159:VAL:HA	2.17	0.45
1:H:699:PHE:HZ	1:H:705:ILE:HD11	1.80	0.45
1:H:752:GLU:O	1:H:752:GLU:CG	2.65	0.45
1:I:88:VAL:HG11	1:I:94:LEU:HB3	1.98	0.45
1:I:327:ARG:HH11	1:I:327:ARG:HG2	1.81	0.45
1:J:135:TRP:CD1	1:J:135:TRP:N	2.85	0.45
1:J:223:LYS:HG2	1:J:224:PRO:HD2	1.99	0.45
1:K:135:TRP:CH2	1:K:153:VAL:HG21	2.51	0.45
1:K:135:TRP:CZ2	1:K:153:VAL:CB	2.99	0.45
1:K:164:GLY:HA2	1:K:173:LEU:O	2.17	0.45
1:K:363:THR:HG21	1:K:566:PHE:CD1	2.52	0.45
1:K:436:GLU:H	1:K:436:GLU:HG2	1.52	0.45
1:K:544:ARG:NE	1:L:401:HIS:CD2	2.82	0.45
1:K:765:TRP:O	1:K:769:GLN:HB2	2.17	0.45
1:L:255:ASP:O	1:L:286:GLU:CB	2.64	0.45
1:L:331:VAL:HG23	1:L:331:VAL:O	2.16	0.45
1:L:478:ALA:C	1:L:480:TYR:H	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:575:LEU:HB3	1:L:576:PRO:CD	2.34	0.45
1:L:589:VAL:HG21	1:L:605:GLY:O	2.17	0.45
4:M:319:ILE:HD13	4:M:359:PRO:CG	2.47	0.45
5:P:15:PRO:HB2	5:R:15:PRO:N	2.32	0.45
1:A:110:GLY:C	1:A:112:SER:H	2.21	0.45
1:A:197:PRO:N	1:B:831:TYR:HD1	2.15	0.45
1:A:423:TYR:CZ	1:B:263:VAL:HG22	2.43	0.45
1:A:520:ILE:CD1	1:C:120:ALA:CB	2.88	0.45
1:A:811:TYR:HD1	1:A:857:PRO:HD2	1.81	0.45
1:B:24:LEU:HA	1:C:639:HIS:HB3	1.99	0.45
1:B:52:PRO:HG2	1:B:56:VAL:HG11	1.98	0.45
1:B:58:THR:CG2	1:B:59:ASP:N	2.79	0.45
1:B:195:PRO:HG2	1:C:823:HIS:CB	2.47	0.45
1:B:328:ASP:O	1:B:331:VAL:HG13	2.18	0.45
1:B:405:ASP:HB3	1:B:465:GLN:CB	2.47	0.45
1:B:890:GLN:CD	4:M:50:ALA:HB2	2.37	0.45
1:D:41:LEU:HD21	1:E:630:LEU:CD1	2.47	0.45
1:D:110:GLY:O	1:D:112:SER:N	2.50	0.45
1:D:479:LEU:C	1:D:486:LYS:NZ	2.68	0.45
1:E:223:LYS:HE2	1:E:292:THR:CG2	2.47	0.45
1:E:290:LEU:O	1:E:290:LEU:HG	2.17	0.45
1:E:453:CYS:H	1:F:159:VAL:HA	1.81	0.45
1:E:561:GLN:NE2	1:F:756:VAL:HA	2.32	0.45
1:F:6:MET:HE3	1:F:10:TRP:NE1	2.31	0.45
1:F:136:GLU:OE2	1:F:218:LYS:NZ	2.50	0.45
1:F:258:PHE:HB3	1:F:260:TYR:HE2	1.78	0.45
1:F:298:VAL:HB	1:F:317:MET:HG2	1.98	0.45
1:F:364:GLU:OE1	1:F:364:GLU:HA	2.17	0.45
1:F:372:ASP:OD1	1:F:373:SER:N	2.50	0.45
1:F:384:TRP:CE3	1:F:384:TRP:CA	2.98	0.45
1:F:427:LYS:HD2	1:F:442:LYS:CE	2.47	0.45
1:F:622:MET:HG2	1:F:626:THR:HG23	1.97	0.45
1:F:714:LEU:HD11	1:F:910:MET:HE1	1.94	0.45
1:F:742:GLU:N	1:F:742:GLU:OE2	2.50	0.45
1:F:745:ILE:CD1	1:F:765:TRP:CE2	2.99	0.45
1:G:412:PHE:CD1	1:G:412:PHE:N	2.62	0.45
1:H:10:TRP:CZ2	1:I:674:ALA:HB2	2.52	0.45
1:H:412:PHE:HB3	1:H:413:PRO:HD2	1.98	0.45
1:H:680:PHE:CE1	1:H:873:ILE:HD11	2.47	0.45
1:H:700:VAL:HG12	5:Q:34:SER:HB3	1.94	0.45
1:H:705:ILE:HG22	1:H:705:ILE:O	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:721:VAL:HG22	1:H:905:PHE:CD1	2.52	0.45
1:H:922:VAL:HG12	1:H:944:PRO:HG2	1.99	0.45
1:I:104:ARG:HD3	1:I:559:HIS:CD2	2.52	0.45
1:I:116:TYR:CD2	1:I:116:TYR:N	2.83	0.45
1:I:173:LEU:CD1	1:I:185:LYS:HZ2	1.82	0.45
1:I:191:LYS:C	1:I:193:PHE:H	2.18	0.45
1:I:500:THR:HG23	1:I:503:TYR:HB2	1.99	0.45
1:I:718:PHE:O	1:I:745:ILE:HG22	2.17	0.45
1:I:860:THR:OG1	1:I:861:GLN:N	2.50	0.45
1:I:937:GLU:O	1:I:937:GLU:CD	2.55	0.45
1:J:166:ASN:O	1:J:173:LEU:HD23	2.17	0.45
1:J:172:LEU:O	1:J:172:LEU:HD23	2.16	0.45
1:J:297:VAL:CG2	1:J:297:VAL:O	2.65	0.45
1:J:414:LEU:HD11	1:K:837:ARG:HD3	1.99	0.45
1:K:35:THR:HG22	7:8:24:GLU:OE2	2.17	0.45
1:K:68:PHE:CE1	1:K:86:LEU:HA	2.52	0.45
1:K:298:VAL:HG21	1:K:317:MET:HB3	1.98	0.45
1:K:652:MET:HB2	1:K:654:TYR:CE2	2.53	0.45
1:K:943:THR:HB	1:K:944:PRO:CD	2.47	0.45
1:K:943:THR:HG22	1:K:944:PRO:HD3	1.99	0.45
1:L:119:THR:O	1:L:119:THR:HG23	2.17	0.45
1:L:168:THR:C	1:L:170:GLN:N	2.69	0.45
1:L:168:THR:HG21	1:L:185:LYS:HD2	1.99	0.45
1:L:172:LEU:HD23	1:L:172:LEU:C	2.37	0.45
1:L:262:ASP:OD1	1:L:277:TYR:O	2.35	0.45
1:L:345:LEU:O	1:L:345:LEU:CD1	2.63	0.45
1:L:771:LEU:HD21	1:L:778:TYR:CE1	2.52	0.45
1:L:842:TYR:CD1	1:L:843:PRO:HD2	2.51	0.45
1:A:134:GLN:HB3	1:A:216:LEU:O	2.18	0.44
1:A:166:ASN:HD22	1:A:167:ILE:N	2.14	0.44
1:A:381:PHE:CE2	1:A:383:MET:HB3	2.52	0.44
1:A:406:GLU:O	1:A:407:LEU:HD23	2.16	0.44
1:A:444:ASP:O	1:A:446:ILE:N	2.50	0.44
1:B:454:LYS:HE3	1:B:454:LYS:HB2	1.75	0.44
1:B:880:MET:HG3	1:B:881:SER:N	2.32	0.44
1:C:139:GLU:HB2	1:C:152:ASP:HB3	1.97	0.44
1:C:278:LYS:O	1:C:278:LYS:HG3	2.12	0.44
1:C:514:VAL:HG23	1:C:518:ILE:CD1	2.47	0.44
1:C:683:LEU:CD1	1:C:707:TYR:HA	2.47	0.44
1:D:358:LEU:HD21	1:D:947:ALA:HB2	1.96	0.44
1:D:737:LEU:C	1:D:739:THR:N	2.70	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:808:GLU:O	1:D:810:ASN:N	2.50	0.44
1:D:851:ILE:CD1	1:F:116:TYR:CE2	2.94	0.44
1:E:65:THR:HG23	1:F:738:LEU:CD1	2.42	0.44
1:E:109:ARG:NH2	1:E:550:LEU:HD22	2.32	0.44
1:E:200:GLY:O	1:E:203:ASN:N	2.50	0.44
1:E:537:HIS:O	1:E:538:PRO:C	2.55	0.44
1:E:729:VAL:O	1:E:729:VAL:HG13	2.15	0.44
1:F:199:VAL:HG12	1:F:199:VAL:O	2.16	0.44
1:F:244:PRO:O	1:F:246:ASN:N	2.49	0.44
1:F:339:THR:HG23	1:F:342:MET:CE	2.47	0.44
1:F:339:THR:HB	1:H:740:PRO:HG2	1.99	0.44
1:F:581:TYR:HD2	1:F:582:GLU:H	1.65	0.44
1:F:589:VAL:O	1:F:593:LEU:HD12	2.18	0.44
1:F:665:ILE:O	1:F:665:ILE:HG13	2.17	0.44
1:F:669:SER:CA	1:F:900:ALA:HB2	2.47	0.44
1:F:676:ARG:HB3	1:F:886:THR:HB	1.99	0.44
1:G:239:GLN:HG2	1:H:842:TYR:HE2	1.82	0.44
1:G:314:GLN:HE21	1:G:314:GLN:HB3	1.37	0.44
1:G:315:GLN:OE1	1:G:835:THR:HB	2.17	0.44
1:G:328:ASP:HB2	1:G:546:ARG:HH21	1.82	0.44
1:H:151:LYS:HZ3	1:H:218:LYS:HG2	1.82	0.44
1:H:207:ASN:O	1:H:208:GLU:O	2.35	0.44
1:H:600:ASP:O	1:H:604:ASP:OD2	2.35	0.44
1:H:713:TYR:HA	1:H:867:ASP:HB2	1.99	0.44
1:H:746:LYS:HE3	1:H:746:LYS:HB3	1.65	0.44
1:I:160:ALA:HB1	1:I:213:GLY:HA3	1.99	0.44
1:I:675:PHE:CG	1:I:676:ARG:N	2.85	0.44
1:I:760:ASN:CB	5:S:54:VAL:HG21	2.47	0.44
1:J:95:ASP:HA	1:J:572:LEU:O	2.16	0.44
1:J:262:ASP:OD1	1:J:263:VAL:N	2.49	0.44
1:J:427:LYS:HD2	1:J:441:GLU:CB	2.47	0.44
1:J:636:ASN:ND2	1:J:636:ASN:C	2.70	0.44
1:J:644:ASN:CB	1:L:46:ARG:NH1	2.81	0.44
1:J:720:LYS:HB2	1:J:906:GLU:OE2	2.17	0.44
1:J:730:SER:HB3	1:J:732:PRO:HD2	1.99	0.44
1:J:839:GLY:H	1:L:198:GLN:HB2	1.82	0.44
1:J:841:PRO:O	1:J:842:TYR:HB2	2.16	0.44
1:J:862:LYS:HE2	1:J:862:LYS:HB3	1.69	0.44
1:L:176:THR:CG2	1:L:177:ASP:N	2.78	0.44
1:L:265:GLY:O	1:L:266:GLY:C	2.55	0.44
1:L:372:ASP:C	1:L:372:ASP:OD1	2.55	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:219:VAL:HG23	2:N:278:ALA:O	2.17	0.44
2:N:406:SER:CA	2:N:496:ARG:HB3	2.47	0.44
4:M:222:VAL:HG12	4:M:222:VAL:O	2.16	0.44
5:R:8:PHE:HD2	5:R:9:GLU:HB3	1.75	0.44
5:R:12:LEU:HD21	5:R:17:LEU:CD2	2.39	0.44
6:V:51:ARG:O	6:V:51:ARG:CG	2.64	0.44
7:3:9:LEU:O	7:3:9:LEU:CG	2.65	0.44
1:A:170:GLN:CG	1:A:185:LYS:HE3	2.42	0.44
1:A:794:PHE:O	1:A:797:ASN:N	2.50	0.44
1:A:833:ALA:C	1:A:835:THR:H	2.20	0.44
1:B:687:GLU:C	1:B:699:PHE:CE1	2.90	0.44
1:B:764:ASP:O	1:B:768:VAL:HG23	2.17	0.44
1:B:943:THR:CB	1:B:944:PRO:CD	2.92	0.44
1:C:150:GLU:C	1:C:152:ASP:H	2.19	0.44
1:C:152:ASP:C	1:C:154:THR:N	2.65	0.44
1:D:62:GLN:HG3	1:D:624:HIS:NE2	2.32	0.44
1:D:204:TRP:CE3	1:E:313:VAL:HG13	2.52	0.44
1:D:356:VAL:O	1:D:356:VAL:HG13	2.17	0.44
1:D:358:LEU:HD13	1:D:361:ARG:NH1	2.33	0.44
1:D:482:PRO:HD2	1:D:485:TYR:HE2	1.82	0.44
1:D:669:SER:OG	1:D:900:ALA:HB2	2.17	0.44
1:D:850:LEU:HD22	1:D:850:LEU:HA	1.71	0.44
1:E:661:THR:OG1	1:E:907:VAL:O	2.30	0.44
1:E:757:ALA:CB	1:E:798:PHE:HZ	2.29	0.44
1:F:581:TYR:HD1	1:F:615:LEU:HD11	1.82	0.44
1:F:587:LYS:O	1:F:587:LYS:HG3	2.18	0.44
1:F:715:ASN:HD21	1:F:869:VAL:HG22	1.82	0.44
1:G:190:ASP:OD1	1:G:191:LYS:HB3	2.15	0.44
1:G:262:ASP:C	1:I:423:TYR:HD2	2.21	0.44
1:G:474:TYR:HA	1:G:478:ALA:CB	2.47	0.44
1:G:495:PRO:HG2	1:G:500:THR:HG21	1.99	0.44
1:G:508:VAL:CG2	1:G:834:PRO:HD3	2.47	0.44
1:G:716:HIS:CD2	1:G:717:THR:CG2	2.99	0.44
1:G:731:TRP:C	1:G:733:GLY:H	2.19	0.44
1:G:860:THR:CG2	1:I:557:PRO:HD2	2.47	0.44
1:H:68:PHE:HE2	1:H:617:ALA:HB3	1.81	0.44
1:H:177:ASP:CG	1:H:184:LYS:HZ1	2.18	0.44
1:H:411:CYS:HB2	1:H:460:MET:CE	2.47	0.44
1:I:277:TYR:H	1:I:277:TYR:HD2	1.59	0.44
1:I:652:MET:HG3	1:I:654:TYR:OH	2.17	0.44
1:J:110:GLY:HA3	1:J:604:ASP:HB2	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:160:ALA:HB1	1:J:213:GLY:CA	2.48	0.44
1:J:277:TYR:O	1:L:440:TRP:HZ3	1.99	0.44
1:J:744:GLU:HB2	1:J:762:THR:HG21	1.98	0.44
1:K:44:LYS:HE3	1:L:573:LEU:HB2	1.98	0.44
1:K:166:ASN:CA	1:K:210:PHE:CE1	2.98	0.44
1:K:420:ASN:O	1:K:451:GLN:HG2	2.17	0.44
1:K:422:THR:HG23	1:K:423:TYR:N	2.33	0.44
1:K:495:PRO:HG2	1:K:503:TYR:N	2.33	0.44
1:K:593:LEU:HB3	1:K:601:LEU:HD12	1.98	0.44
1:K:896:ASN:O	6:U:10:MET:CE	2.64	0.44
1:L:134:GLN:HB3	1:L:154:THR:CB	2.44	0.44
1:L:427:LYS:HG2	1:L:428:ILE:O	2.17	0.44
1:L:615:LEU:H	1:L:615:LEU:CD2	2.23	0.44
1:L:878:ASN:OD1	1:L:880:MET:HB2	2.17	0.44
2:N:115:HIS:HA	2:N:469:PRO:HB3	1.98	0.44
2:N:141:PRO:HB3	2:N:152:ASP:HB2	1.99	0.44
2:N:173:THR:C	2:N:175:ASP:N	2.70	0.44
2:N:234:VAL:C	2:N:235:LEU:HD12	2.37	0.44
5:S:73:THR:O	5:S:77:LEU:HB2	2.18	0.44
6:U:43:ARG:O	6:U:45:ASN:N	2.50	0.44
7:4:22:TRP:HH2	7:4:25:ILE:HD13	1.81	0.44
1:A:233:THR:CB	1:A:240:ALA:HA	2.48	0.44
1:A:443:ASP:O	1:B:150:GLU:CB	2.66	0.44
1:A:811:TYR:HE1	1:A:856:VAL:HB	1.80	0.44
1:B:54:HIS:NE2	6:U:219:VAL:HG11	2.33	0.44
1:B:242:PHE:HZ	1:B:288:VAL:H	1.64	0.44
1:B:324:ILE:CD1	1:B:595:SER:OG	2.65	0.44
1:B:327:ARG:O	1:B:330:PHE:CA	2.65	0.44
1:B:501:TYR:O	1:B:501:TYR:CG	2.70	0.44
1:B:658:ALA:HB2	1:B:913:PRO:HD3	1.98	0.44
1:B:767:LEU:O	1:B:771:LEU:CB	2.65	0.44
1:B:775:ASN:HB3	1:B:880:MET:HE1	1.94	0.44
1:B:906:GLU:O	1:B:906:GLU:CG	2.66	0.44
1:C:38:TYR:OH	7:2:24:GLU:OE1	2.34	0.44
1:C:377:ARG:HH11	1:C:377:ARG:CB	2.29	0.44
1:C:464:LEU:HD23	1:C:464:LEU:HA	1.79	0.44
1:D:404:GLU:OE2	1:F:539:ARG:NH1	2.50	0.44
1:D:552:ASN:HD22	1:E:522:ALA:HB2	1.82	0.44
1:D:877:SER:HB3	1:F:57:THR:CG2	2.40	0.44
1:E:8:PRO:O	1:E:11:ALA:HB3	2.17	0.44
1:E:25:SER:H	1:F:639:HIS:CE1	2.34	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:195:PRO:HG2	1:F:823:HIS:CG	2.53	0.44
1:E:415:ASN:OD1	1:E:417:THR:HG22	2.17	0.44
1:E:485:TYR:CZ	1:E:528:PRO:HB3	2.53	0.44
1:E:905:PHE:CE2	1:E:916:LEU:HD21	2.53	0.44
1:E:912:GLU:HB3	1:E:913:PRO:CD	2.44	0.44
1:F:24:LEU:HD11	7:4:9:LEU:CD2	2.47	0.44
1:F:163:GLY:HA3	1:F:210:PHE:O	2.18	0.44
1:F:544:ARG:HD3	1:F:548:MET:HE3	1.99	0.44
1:F:580:THR:O	1:F:580:THR:HG23	2.17	0.44
1:F:766:PHE:HE1	1:F:781:PHE:CE1	2.36	0.44
1:G:16:ALA:C	1:G:48:PRO:HB3	2.38	0.44
1:G:178:GLU:HG3	1:G:181:GLU:HG3	1.99	0.44
1:G:202:GLU:HB3	1:H:313:VAL:CG2	2.33	0.44
1:G:424:GLN:HB3	1:G:447:SER:HA	1.98	0.44
1:G:456:ASN:N	1:G:456:ASN:HD22	2.16	0.44
1:G:747:ARG:HH11	1:G:747:ARG:HB3	1.82	0.44
1:G:800:PRO:C	1:G:801:MET:HG3	2.37	0.44
1:G:929:HIS:O	1:G:937:GLU:CG	2.65	0.44
1:H:116:TYR:CD1	1:I:520:ILE:HG21	2.53	0.44
1:H:132:PRO:O	1:H:216:LEU:HG	2.17	0.44
1:H:300:LYS:NZ	1:H:300:LYS:CB	2.81	0.44
1:H:372:ASP:OD1	1:H:372:ASP:C	2.56	0.44
1:H:481:LEU:HB3	1:H:485:TYR:HD2	1.82	0.44
1:H:529:MET:O	1:H:529:MET:SD	2.75	0.44
1:I:67:ARG:HB3	1:I:616:TYR:CD2	2.52	0.44
1:I:100:TYR:O	1:I:100:TYR:HD2	1.97	0.44
1:I:115:PRO:O	1:I:323:TYR:CZ	2.69	0.44
1:I:209:ALA:CB	1:I:210:PHE:CD1	3.00	0.44
1:I:306:ASN:O	1:I:311:ASN:ND2	2.50	0.44
1:I:392:ASP:HB3	1:I:395:VAL:CG2	2.41	0.44
1:I:545:TYR:O	1:I:547:SER:N	2.50	0.44
1:I:587:LYS:HG2	1:I:587:LYS:O	2.17	0.44
1:I:871:TRP:CE3	1:I:871:TRP:HA	2.53	0.44
1:I:880:MET:HA	1:I:880:MET:HE2	1.99	0.44
1:I:893:LEU:HD23	1:I:894:TYR:CE1	2.52	0.44
1:I:919:LEU:HD23	1:I:919:LEU:O	2.17	0.44
1:J:313:VAL:HG12	1:L:204:TRP:NE1	2.31	0.44
1:J:389:ASP:N	1:J:389:ASP:OD2	2.50	0.44
1:J:633:MET:O	1:J:636:ASN:HB3	2.17	0.44
1:J:828:PHE:O	1:J:829:THR:HB	2.16	0.44
1:J:838:GLN:CA	1:K:456:ASN:HD22	2.08	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:566:PHE:HD2	1:K:569:ILE:HG12	1.82	0.44
1:L:173:LEU:HB2	1:L:185:LYS:NZ	2.32	0.44
1:L:196:GLU:O	1:L:198:GLN:HG3	2.17	0.44
1:L:246:ASN:ND2	1:L:251:PRO:HA	2.32	0.44
1:L:308:SER:O	1:L:311:ASN:N	2.46	0.44
1:L:476:ASN:ND2	1:L:539:ARG:HD3	2.29	0.44
1:L:533:ASN:C	1:L:533:ASN:ND2	2.70	0.44
1:L:572:LEU:HA	1:L:643:PHE:CE2	2.51	0.44
1:L:705:ILE:O	1:L:705:ILE:HG13	2.17	0.44
1:L:804:GLN:CA	1:L:804:GLN:OE1	2.63	0.44
2:N:418:PHE:CE1	2:N:465:SER:OG	2.69	0.44
4:M:169:MET:HG2	4:M:240:PHE:CE1	2.50	0.44
4:M:296:ASN:HA	4:M:299:LEU:CD1	2.47	0.44
4:M:326:SER:O	4:M:330:PHE:CD1	2.70	0.44
5:P:77:LEU:HD12	5:P:77:LEU:HA	1.74	0.44
5:Q:61:SER:O	5:Q:61:SER:OG	2.23	0.44
5:R:2:ASN:OD1	5:R:6:GLY:N	2.50	0.44
5:R:72:MET:HA	5:R:75:THR:HG21	1.98	0.44
7:5:24:GLU:C	7:5:26:GLY:H	2.08	0.44
7:6:26:GLY:O	7:6:28:SER:N	2.50	0.44
1:A:202:GLU:O	1:A:206:GLU:CB	2.65	0.44
1:A:427:LYS:C	1:A:428:ILE:CG2	2.86	0.44
1:A:925:VAL:HG23	1:C:13:MET:HG3	1.98	0.44
1:B:10:TRP:HB3	1:B:16:ALA:CB	2.40	0.44
1:B:33:ARG:NH1	1:B:33:ARG:HG3	2.32	0.44
1:B:47:ASN:C	1:B:47:ASN:ND2	2.67	0.44
1:B:345:LEU:HD13	1:B:345:LEU:O	2.17	0.44
1:B:532:VAL:O	1:B:532:VAL:HG12	2.18	0.44
1:B:672:TRP:HB2	1:B:892:MET:HE1	1.99	0.44
1:B:676:ARG:HB3	1:B:886:THR:CG2	2.47	0.44
1:B:798:PHE:HA	1:B:866:CYS:SG	2.57	0.44
1:B:859:VAL:HG13	1:B:860:THR:N	2.32	0.44
1:C:196:GLU:H	1:C:197:PRO:CD	2.27	0.44
1:C:260:TYR:N	1:C:260:TYR:HD1	2.12	0.44
1:C:573:LEU:H	1:C:641:GLN:NE2	2.15	0.44
1:C:600:ASP:HB2	1:C:700:VAL:O	2.17	0.44
1:D:109:ARG:NH1	1:D:113:PHE:CE2	2.84	0.44
1:D:372:ASP:HB2	1:D:377:ARG:HD3	1.98	0.44
1:D:756:VAL:CG2	1:D:757:ALA:N	2.80	0.44
1:D:815:LYS:HD3	1:D:815:LYS:HA	1.74	0.44
1:D:862:LYS:HE2	1:D:862:LYS:HB3	1.84	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:924:ASP:HB3	1:D:942:ARG:CG	2.47	0.44
1:E:121:TYR:HB2	1:E:227:GLY:CA	2.48	0.44
1:E:313:VAL:O	1:E:315:GLN:HG3	2.17	0.44
1:E:771:LEU:HD13	1:E:777:GLY:HA3	1.99	0.44
1:F:38:TYR:CD1	1:F:38:TYR:O	2.71	0.44
1:F:101:PHE:HA	1:F:614:ASN:O	2.17	0.44
1:F:241:LYS:CD	1:F:256:ILE:HG12	2.15	0.44
1:F:654:TYR:CD2	5:R:17:LEU:O	2.71	0.44
1:G:300:LYS:HB3	1:G:314:GLN:HE22	1.82	0.44
1:G:327:ARG:HH21	1:G:705:ILE:HG13	1.82	0.44
1:G:460:MET:HE2	1:H:413:PRO:HA	1.99	0.44
1:G:631:GLU:CD	1:G:631:GLU:C	2.74	0.44
1:H:10:TRP:CH2	1:I:674:ALA:HB2	2.53	0.44
1:H:64:LEU:HD12	1:I:736:ARG:HD2	2.00	0.44
1:H:134:GLN:HG2	1:H:154:THR:HB	1.97	0.44
1:H:252:LYS:O	1:H:252:LYS:HG3	2.17	0.44
1:H:337:ASN:ND2	1:H:363:THR:H	2.08	0.44
1:I:322:ASN:ND2	1:I:597:LEU:HB3	2.32	0.44
1:I:479:LEU:HD23	1:I:509:VAL:CG2	2.48	0.44
1:I:575:LEU:CD1	1:I:631:GLU:O	2.65	0.44
1:I:880:MET:CG	1:I:882:MET:HE1	2.47	0.44
1:J:369:LEU:O	1:J:370:LEU:C	2.55	0.44
1:J:623:ALA:CB	1:J:626:THR:HG22	2.42	0.44
1:J:687:GLU:HB2	1:J:701:TYR:CE2	2.53	0.44
1:J:687:GLU:CB	1:J:701:TYR:CD2	3.01	0.44
1:J:746:LYS:HG3	1:J:760:ASN:ND2	2.32	0.44
1:J:804:GLN:NE2	1:L:556:VAL:HG12	2.33	0.44
1:J:831:TYR:CE1	1:L:197:PRO:CD	2.83	0.44
1:J:875:PHE:C	1:J:886:THR:HG21	2.38	0.44
1:K:249:GLU:O	5:S:134:LYS:CE	2.66	0.44
1:K:298:VAL:CG2	1:K:317:MET:HG2	2.48	0.44
1:K:370:LEU:HB2	1:K:646:TYR:CD2	2.52	0.44
1:K:635:ARG:HB2	1:K:930:GLN:O	2.17	0.44
1:K:683:LEU:N	1:K:683:LEU:HD12	2.32	0.44
1:L:119:THR:HG23	1:L:121:TYR:O	2.18	0.44
1:L:121:TYR:CD1	1:L:121:TYR:N	2.84	0.44
1:L:661:THR:O	1:L:907:VAL:O	2.36	0.44
1:L:784:PRO:O	1:L:785:GLU:C	2.55	0.44
2:N:388:SER:O	2:N:390:PRO:HD3	2.17	0.44
6:U:56:LEU:HD23	6:U:56:LEU:HA	1.80	0.44
6:V:187:GLN:HA	6:V:190:GLU:OE2	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:298:VAL:HG22	1:A:317:MET:HE3	1.99	0.44
1:A:570:LYS:HE2	1:A:570:LYS:HB3	1.87	0.44
1:A:649:ALA:CB	1:A:919:LEU:CD1	2.95	0.44
1:A:724:MET:CG	1:A:902:ASP:OD2	2.66	0.44
1:A:925:VAL:HG23	1:A:925:VAL:O	2.18	0.44
1:B:18:GLN:O	1:B:48:PRO:HG2	2.18	0.44
1:B:33:ARG:NH1	7:1:12:ARG:HB2	2.32	0.44
1:B:130:PRO:HB2	1:B:312:LEU:HD11	1.98	0.44
1:B:164:GLY:HA2	1:B:174:LEU:HA	1.99	0.44
1:B:198:GLN:O	1:B:199:VAL:O	2.35	0.44
1:B:229:PHE:CE1	1:C:849:PRO:HD3	2.52	0.44
1:B:400:ASN:HD21	1:B:520:ILE:HG23	1.82	0.44
1:B:409:ASN:ND2	1:B:464:LEU:HB2	2.30	0.44
1:C:38:TYR:OH	7:2:24:GLU:CD	2.55	0.44
1:C:300:LYS:HB2	1:C:300:LYS:HZ2	1.83	0.44
1:C:545:TYR:C	1:C:547:SER:N	2.70	0.44
1:C:573:LEU:N	1:C:641:GLN:HE21	2.16	0.44
1:C:601:LEU:O	1:C:604:ASP:O	2.36	0.44
1:C:656:ILE:HB	1:C:914:THR:O	2.17	0.44
1:C:675:PHE:N	1:C:944:PRO:HG3	2.33	0.44
1:C:720:LYS:HE3	1:C:742:GLU:OE1	2.17	0.44
1:D:23:TYR:CD1	1:D:23:TYR:C	2.90	0.44
1:D:200:GLY:HA3	1:D:206:GLU:OE2	2.15	0.44
1:D:724:MET:HB3	1:D:902:ASP:O	2.17	0.44
1:D:754:TYR:HB3	1:D:762:THR:HG22	2.00	0.44
1:D:759:CYS:SG	1:D:760:ASN:N	2.90	0.44
1:D:803:ARG:HG2	1:D:803:ARG:NH1	2.33	0.44
1:E:76:THR:N	1:E:79:LEU:O	2.51	0.44
1:E:130:PRO:HG3	1:E:312:LEU:HG	2.00	0.44
1:E:209:ALA:HB3	1:E:210:PHE:CD1	2.53	0.44
1:E:270:ALA:HB3	1:E:273:SER:HG	1.79	0.44
1:E:403:VAL:CG2	1:E:465:GLN:HB3	2.48	0.44
1:E:532:VAL:O	1:E:532:VAL:HG13	2.16	0.44
1:F:549:LEU:O	1:F:549:LEU:HG	2.18	0.44
1:F:675:PHE:HB2	1:F:944:PRO:CG	2.48	0.44
1:G:107:LEU:CD1	1:G:108:ASP:H	2.29	0.44
1:G:130:PRO:HG3	1:G:157:PHE:CE1	2.52	0.44
1:G:369:LEU:HD12	1:G:792:TYR:CD2	2.53	0.44
1:G:410:TYR:HB2	1:G:412:PHE:CZ	2.53	0.44
1:G:502:GLU:OE2	1:G:502:GLU:C	2.55	0.44
1:H:442:LYS:HE2	1:I:150:GLU:OE1	2.15	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:599:ASN:O	1:H:702:SER:CB	2.66	0.44
1:H:665:ILE:O	1:H:666:SER:HB2	2.17	0.44
1:I:443:ASP:O	1:I:443:ASP:OD1	2.36	0.44
1:I:495:PRO:HG3	1:I:502:GLU:OE2	2.17	0.44
1:I:790:ARG:HH11	1:I:790:ARG:HB3	1.81	0.44
1:I:891:ASN:C	1:I:895:ALA:CB	2.77	0.44
1:J:64:LEU:HA	1:J:64:LEU:HD12	1.69	0.44
1:J:102:ASP:HB2	1:J:616:TYR:HE1	1.83	0.44
1:J:176:THR:HG23	1:J:183:GLY:HA2	1.98	0.44
1:J:200:GLY:C	1:J:202:GLU:H	2.21	0.44
1:J:222:MET:HE1	1:J:312:LEU:HA	1.99	0.44
1:J:235:GLU:O	1:J:237:GLY:N	2.51	0.44
1:J:436:GLU:CD	1:J:436:GLU:N	2.69	0.44
1:J:664:PRO:HD2	5:P:12:LEU:HG	2.00	0.44
1:K:61:SER:HA	1:L:734:ASN:HD21	1.81	0.44
1:K:202:GLU:HA	1:L:313:VAL:CG1	2.46	0.44
1:K:268:PRO:HA	1:K:269:PRO:HD3	1.65	0.44
1:K:324:ILE:O	1:K:547:SER:HB2	2.18	0.44
1:K:662:ASN:HA	1:K:906:GLU:H	1.82	0.44
1:K:685:THR:O	1:K:685:THR:HG23	2.17	0.44
1:K:912:GLU:HB3	1:K:913:PRO:HD2	1.99	0.44
1:L:94:LEU:CD1	1:L:617:ALA:HB1	2.47	0.44
1:L:160:ALA:HB1	1:L:212:GLY:C	2.38	0.44
1:L:342:MET:HE2	1:L:357:ASP:CB	2.48	0.44
1:L:693:SER:HB2	5:S:81:TYR:CE1	2.52	0.44
1:L:824:ASN:O	1:L:825:ASN:HB2	2.17	0.44
1:L:878:ASN:CG	1:L:880:MET:CG	2.86	0.44
2:N:235:LEU:O	2:N:351:TYR:HA	2.17	0.44
2:N:387:TRP:CZ3	2:N:491:VAL:HG13	2.53	0.44
4:M:8:PRO:HG3	4:M:124:VAL:HG21	1.99	0.44
6:V:200:PRO:O	6:V:201:PHE:CG	2.71	0.44
7:1:17:PRO:O	7:1:18:PHE:CG	2.70	0.44
7:5:10:ALA:N	7:5:11:PRO:HD3	2.32	0.44
7:5:15:THR:CG2	7:5:16:ARG:H	2.24	0.44
1:A:241:LYS:NZ	1:A:256:ILE:HD13	2.32	0.44
1:A:242:PHE:HE1	1:A:288:VAL:CA	2.31	0.44
1:A:381:PHE:CE2	1:A:383:MET:HG2	2.52	0.44
1:A:729:VAL:CG1	1:A:730:SER:N	2.81	0.44
1:A:746:LYS:O	1:A:748:SER:N	2.50	0.44
1:A:756:VAL:HG12	1:A:757:ALA:N	2.32	0.44
1:A:847:PRO:O	1:C:121:TYR:CE2	2.71	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:514:VAL:O	1:B:514:VAL:HG13	2.18	0.44
1:C:6:MET:O	1:C:7:MET:C	2.55	0.44
1:C:200:GLY:O	1:C:201:GLU:HB3	2.17	0.44
1:C:263:VAL:HG21	1:C:277:TYR:OH	2.17	0.44
1:C:573:LEU:O	1:C:573:LEU:CG	2.60	0.44
1:C:577:GLY:HA3	1:C:934:GLY:HA2	1.99	0.44
1:C:800:PRO:O	1:C:801:MET:CB	2.66	0.44
1:D:106:VAL:O	1:D:106:VAL:HG23	2.17	0.44
1:D:150:GLU:C	1:D:152:ASP:N	2.71	0.44
1:D:222:MET:HE3	1:D:307:SER:C	2.38	0.44
1:D:271:GLY:CA	1:F:436:GLU:OE2	2.63	0.44
1:D:309:GLU:O	1:D:312:LEU:HD23	2.18	0.44
1:D:383:MET:O	1:D:384:TRP:HE3	1.99	0.44
1:D:500:THR:HG23	1:D:503:TYR:HB3	1.99	0.44
1:D:759:CYS:CB	1:D:800:PRO:HB3	2.48	0.44
1:E:19:ASP:CG	1:E:20:ALA:N	2.63	0.44
1:E:455:GLY:CA	1:F:161:ALA:HB2	2.46	0.44
1:E:720:LYS:O	1:E:720:LYS:HG2	2.13	0.44
1:F:223:LYS:CB	1:F:224:PRO:HD2	2.33	0.44
1:F:367:TYR:O	1:F:367:TYR:CG	2.69	0.44
1:F:369:LEU:O	1:F:372:ASP:HB3	2.18	0.44
1:F:529:MET:HE3	1:F:529:MET:C	2.38	0.44
1:F:537:HIS:O	1:F:538:PRO:C	2.54	0.44
1:F:612:SER:O	1:F:613:VAL:HG22	2.18	0.44
1:F:791:MET:HE3	1:F:792:TYR:CE1	2.53	0.44
1:G:452:ILE:CG2	1:H:158:GLY:HA3	2.34	0.44
1:G:755:ASN:O	1:G:763:LYS:HE2	2.17	0.44
1:G:806:VAL:HG23	1:G:856:VAL:HG21	2.00	0.44
1:G:845:ASN:HB3	1:I:239:GLN:NE2	2.32	0.44
1:H:204:TRP:C	1:H:206:GLU:H	2.21	0.44
1:H:312:LEU:HG	1:H:312:LEU:O	2.17	0.44
1:H:348:GLN:CB	1:H:579:TYR:HA	2.48	0.44
1:H:353:ASN:HD21	1:H:355:VAL:CB	2.31	0.44
1:H:591:MET:O	1:H:591:MET:HG3	2.17	0.44
1:H:717:THR:O	1:H:908:ASP:HB2	2.18	0.44
1:H:887:ASP:OD1	1:H:887:ASP:C	2.56	0.44
1:I:331:VAL:O	1:I:331:VAL:CG2	2.66	0.44
1:I:482:PRO:C	1:I:484:SER:H	2.21	0.44
1:I:494:LEU:HB3	1:I:503:TYR:HD1	1.83	0.44
1:I:726:ASP:N	1:I:726:ASP:OD2	2.49	0.44
1:I:790:ARG:NH1	1:I:790:ARG:HA	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:300:LYS:HA	1:J:301:PRO:HD2	1.70	0.44
1:J:363:THR:HG21	1:J:566:PHE:HD2	1.81	0.44
1:J:422:THR:HB	1:J:447:SER:O	2.18	0.44
1:J:722:SER:CB	1:J:742:GLU:HB3	2.48	0.44
1:J:927:ARG:HG2	1:J:927:ARG:O	2.18	0.44
1:K:135:TRP:HE1	1:K:156:THR:CB	2.30	0.44
1:K:187:ILE:O	1:K:189:ALA:N	2.51	0.44
1:K:438:SER:OG	1:K:440:TRP:CZ3	2.71	0.44
1:K:553:GLY:H	1:L:804:GLN:HE21	1.64	0.44
1:K:649:ALA:HB1	1:K:919:LEU:HD12	1.99	0.44
1:K:665:ILE:HD12	1:K:918:LEU:HD23	1.99	0.44
1:L:62:GLN:O	1:L:63:ARG:C	2.56	0.44
1:L:100:TYR:HB3	1:L:384:TRP:CH2	2.53	0.44
1:L:364:GLU:OE1	1:L:364:GLU:CA	2.58	0.44
1:L:525:SER:OG	1:L:801:MET:CE	2.66	0.44
2:N:74:ASP:C	2:N:76:SER:H	2.21	0.44
3:O:19:TYR:O	3:O:20:ALA:OXT	2.36	0.44
4:M:46:GLN:O	7:2:25:ILE:HG22	2.16	0.44
5:R:14:SER:N	5:R:15:PRO:HD2	2.32	0.44
5:R:95:ILE:HG23	5:R:96:ILE:HG13	1.98	0.44
1:A:97:ALA:O	1:B:779:GLN:C	2.56	0.44
1:A:198:GLN:CG	1:B:838:GLN:CB	2.81	0.44
1:A:204:TRP:CD2	1:A:204:TRP:N	2.85	0.44
1:A:517:TYR:HA	1:A:520:ILE:CG2	2.48	0.44
1:A:522:ALA:C	1:A:524:TRP:H	2.21	0.44
1:A:575:LEU:CB	1:A:576:PRO:HD2	2.48	0.44
1:A:663:VAL:HG13	1:A:905:PHE:HB2	1.99	0.44
1:A:829:THR:HG22	1:A:830:GLY:H	1.82	0.44
1:A:838:GLN:OE1	1:C:201:GLU:HB2	2.18	0.44
1:A:849:PRO:HD3	1:C:229:PHE:CZ	2.53	0.44
1:B:222:MET:H	1:B:222:MET:HG3	1.41	0.44
1:B:270:ALA:H	1:B:273:SER:HB2	1.82	0.44
1:B:379:ARG:H	1:B:379:ARG:HG2	1.36	0.44
1:B:383:MET:C	1:B:385:ASN:H	2.20	0.44
1:B:527:ASP:N	1:B:528:PRO:HD2	2.33	0.44
1:B:573:LEU:CB	1:B:641:GLN:HE21	2.29	0.44
1:B:687:GLU:CB	1:B:701:TYR:CD2	3.01	0.44
1:B:888:LEU:HD23	1:B:888:LEU:N	2.23	0.44
1:B:937:GLU:HA	1:B:937:GLU:OE1	2.18	0.44
1:C:569:ILE:C	1:C:571:ASN:H	2.20	0.44
1:C:837:ARG:O	1:C:837:ARG:HG3	2.09	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:60:ARG:HH11	1:D:60:ARG:HG3	1.83	0.44
1:D:104:ARG:CD	1:D:559:HIS:HD2	2.29	0.44
1:D:330:PHE:CG	1:D:562:VAL:HG12	2.52	0.44
1:E:167:ILE:CG1	1:E:210:PHE:HB3	2.47	0.44
1:E:234:ASN:C	1:E:236:LYS:N	2.70	0.44
1:E:437:GLU:O	1:F:278:LYS:HD2	2.18	0.44
1:E:586:ARG:NH1	1:E:591:MET:CG	2.80	0.44
1:E:591:MET:O	1:E:591:MET:HG3	2.17	0.44
1:F:92:ARG:O	1:F:92:ARG:CG	2.66	0.44
1:F:150:GLU:N	1:F:152:ASP:OD2	2.46	0.44
1:F:191:LYS:O	1:F:193:PHE:N	2.49	0.44
1:F:661:THR:CG2	1:F:909:PRO:CD	2.94	0.44
1:F:681:THR:O	1:F:917:TYR:HB3	2.18	0.44
1:F:705:ILE:HD11	1:F:708:LEU:CG	2.47	0.44
1:F:810:ASN:HB2	1:F:811:TYR:H	1.23	0.44
1:F:862:LYS:HB2	5:P:54:VAL:CG1	2.48	0.44
1:F:930:GLN:HB3	1:F:936:ILE:HA	1.99	0.44
1:G:46:ARG:NH1	1:H:644:ASN:OD1	2.51	0.44
1:G:55:ASP:C	1:G:623:ALA:CB	2.61	0.44
1:G:86:LEU:HD13	1:G:615:LEU:HD11	2.00	0.44
1:G:113:PHE:CD1	1:G:324:ILE:HD12	2.53	0.44
1:G:517:TYR:HA	1:G:520:ILE:HG23	1.99	0.44
1:G:639:HIS:HB2	1:I:24:LEU:CD2	2.48	0.44
1:G:696:ASP:HB2	1:G:699:PHE:HB2	1.99	0.44
1:H:200:GLY:O	1:H:202:GLU:N	2.51	0.44
1:H:574:LEU:HD13	1:H:579:TYR:CE1	2.53	0.44
1:H:774:TYR:O	1:H:775:ASN:CB	2.59	0.44
1:I:103:ILE:HG12	1:I:613:VAL:CG2	2.48	0.44
1:I:603:VAL:HG23	1:I:604:ASP:OD2	2.17	0.44
1:I:731:TRP:O	1:I:731:TRP:CD2	2.71	0.44
1:I:773:HIS:N	1:I:773:HIS:ND1	2.65	0.44
1:I:807:ASP:O	1:I:814:TYR:CD2	2.70	0.44
1:J:271:GLY:HA3	1:L:436:GLU:CG	2.48	0.44
1:J:566:PHE:HD1	1:J:569:ILE:HG12	1.83	0.44
1:J:880:MET:O	1:J:882:MET:HG3	2.18	0.44
1:K:26:PRO:C	1:K:29:VAL:HG12	2.37	0.44
1:K:734:ASN:O	1:K:735:ASP:OD1	2.36	0.44
1:K:738:LEU:HD13	1:K:754:TYR:HD2	1.76	0.44
1:K:863:LYS:HG2	1:K:864:PHE:H	1.82	0.44
1:L:190:ASP:C	1:L:192:THR:N	2.70	0.44
1:L:268:PRO:HB2	1:L:269:PRO:HD2	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:341:ASN:HB2	1:L:584:ASN:ND2	2.33	0.44
1:L:575:LEU:CB	1:L:576:PRO:HD2	2.27	0.44
2:N:208:PHE:HB3	2:N:276:ILE:HG23	2.00	0.44
2:N:384:GLN:HA	2:N:415:LEU:HA	1.99	0.44
2:N:396:PRO:HD2	2:N:409:PRO:HB2	1.99	0.44
2:N:411:VAL:CG1	2:N:477:LEU:HD11	2.48	0.44
4:M:65:THR:CG2	4:M:66:ASN:H	2.11	0.44
5:Q:29:GLN:O	5:Q:48:THR:OG1	2.29	0.44
6:V:55:LEU:HD13	6:V:194:PRO:HG2	2.00	0.44
6:V:80:TYR:CD2	6:V:80:TYR:N	2.86	0.44
7:1:17:PRO:CG	7:1:25:ILE:CG2	2.95	0.44
7:2:17:PRO:HG2	7:2:22:TRP:CZ3	2.53	0.44
8:X:3:UNK:O	8:X:4:UNK:C	2.66	0.44
1:A:24:LEU:HD11	1:A:45:PHE:CE2	2.53	0.44
1:A:52:PRO:HD2	1:B:882:MET:CB	2.47	0.44
1:A:152:ASP:CA	1:A:154:THR:HG22	2.26	0.44
1:A:196:GLU:HB2	1:A:197:PRO:HD3	1.98	0.44
1:A:692:GLY:O	1:A:693:SER:OG	2.36	0.44
1:A:719:LYS:HE3	1:A:907:VAL:O	2.17	0.44
1:A:732:PRO:HG3	1:A:743:PHE:CE1	2.52	0.44
1:B:10:TRP:HE1	1:C:943:THR:CG2	2.31	0.44
1:B:81:LYS:HA	1:B:584:ASN:HB3	1.99	0.44
1:B:139:GLU:HB2	1:B:152:ASP:OD2	2.18	0.44
1:B:155:LYS:NZ	1:B:283:LEU:HB3	2.29	0.44
1:B:221:LYS:O	1:B:290:LEU:HD23	2.18	0.44
1:B:620:PHE:CE1	1:C:880:MET:HE2	2.45	0.44
1:B:827:GLY:HA2	1:B:839:GLY:CA	2.47	0.44
1:C:155:LYS:NZ	1:C:215:ALA:HB3	2.32	0.44
1:C:196:GLU:CB	1:C:197:PRO:CD	2.84	0.44
1:C:246:ASN:O	1:C:247:GLU:C	2.56	0.44
1:C:386:SER:O	1:C:388:VAL:N	2.50	0.44
1:D:129:ALA:HB1	1:F:416:GLY:CA	2.48	0.44
1:D:193:PHE:O	1:D:194:GLN:C	2.54	0.44
1:D:629:THR:HG22	1:D:629:THR:O	2.18	0.44
1:D:923:PHE:HB2	1:D:943:THR:OG1	2.17	0.44
1:E:52:PRO:HG2	1:E:56:VAL:HG21	2.00	0.44
1:E:429:THR:CG2	1:E:430:ASN:OD1	2.64	0.44
1:E:543:LEU:HD22	1:E:594:GLN:NE2	2.32	0.44
1:E:667:ILE:HD12	1:E:667:ILE:N	2.32	0.44
1:F:241:LYS:HE2	1:F:256:ILE:HG12	1.64	0.44
1:F:546:ARG:HG2	1:F:546:ARG:O	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:680:PHE:CE2	1:F:905:PHE:CE2	3.05	0.44
1:F:769:GLN:NE2	1:F:769:GLN:CA	2.78	0.44
1:F:856:VAL:HG22	1:F:857:PRO:O	2.18	0.44
1:G:45:PHE:CD2	1:H:640:ASP:O	2.69	0.44
1:G:166:ASN:HA	1:G:210:PHE:CD1	2.52	0.44
1:G:239:GLN:CG	1:G:240:ALA:N	2.81	0.44
1:G:367:TYR:O	1:G:367:TYR:CG	2.71	0.44
1:G:745:ILE:HD13	1:G:765:TRP:CH2	2.47	0.44
1:G:929:HIS:N	1:G:937:GLU:O	2.44	0.44
1:H:364:GLU:HG2	1:H:708:LEU:HB2	1.99	0.44
1:H:462:ILE:CG1	1:H:463:ASN:N	2.81	0.44
1:H:813:ASP:O	1:H:813:ASP:CG	2.55	0.44
1:I:243:LYS:HA	1:I:244:PRO:HD3	1.50	0.44
1:I:344:VAL:HG23	1:I:353:ASN:OD1	2.18	0.44
1:I:586:ARG:HD2	1:I:591:MET:HG2	2.00	0.44
1:I:720:LYS:C	1:I:721:VAL:CG2	2.85	0.44
1:J:296:HIS:CE1	1:J:317:MET:HG3	2.52	0.44
1:J:298:VAL:CG2	1:J:317:MET:HE2	2.43	0.44
1:J:414:LEU:HD12	1:K:837:ARG:NH1	2.33	0.44
1:J:922:VAL:O	1:J:922:VAL:CG2	2.65	0.44
1:K:94:LEU:HB2	1:K:619:PHE:HD2	1.78	0.44
1:K:167:ILE:HG22	1:K:168:THR:H	1.83	0.44
1:K:190:ASP:O	1:K:191:LYS:C	2.55	0.44
1:L:135:TRP:CZ2	1:L:309:GLU:HB3	2.53	0.44
1:L:192:THR:HG22	1:L:193:PHE:CZ	2.52	0.44
1:L:192:THR:CG2	1:L:214:ARG:HH11	2.20	0.44
1:L:196:GLU:N	1:L:197:PRO:HD2	2.31	0.44
1:L:233:THR:HG22	1:L:234:ASN:N	2.31	0.44
1:L:524:TRP:CD1	1:L:803:ARG:HG2	2.51	0.44
1:L:707:TYR:HD2	1:L:708:LEU:CB	2.28	0.44
2:N:226:TYR:CE2	2:N:429:VAL:HG11	2.50	0.44
4:M:209:LEU:HA	4:M:212:VAL:HG23	1.99	0.44
5:P:15:PRO:CB	5:R:15:PRO:N	2.81	0.44
5:Q:39:ARG:NE	5:Q:41:VAL:HG21	2.33	0.44
5:R:21:LEU:O	5:R:22:PRO:C	2.52	0.44
5:R:115:LEU:HA	5:R:118:LEU:HB2	1.98	0.44
6:U:197:TYR:HE1	6:U:209:PRO:CG	2.30	0.44
7:1:22:TRP:CH2	7:1:25:ILE:CD1	2.91	0.44
7:1:22:TRP:CH2	7:1:25:ILE:HB	2.53	0.44
1:A:81:LYS:HB2	1:A:584:ASN:OD1	2.14	0.44
1:A:90:ASP:C	1:A:92:ARG:N	2.71	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:198:GLN:HE21	1:B:838:GLN:CA	2.16	0.44
1:A:379:ARG:HH12	1:B:796:ARG:NH1	2.11	0.44
1:A:544:ARG:O	1:A:548:MET:HG3	2.18	0.44
1:A:662:ASN:HD21	1:A:904:THR:CG2	2.30	0.44
1:A:731:TRP:CD1	1:A:888:LEU:CD1	3.01	0.44
1:A:851:ILE:HD12	1:C:114:LYS:HG3	1.99	0.44
1:B:45:PHE:HB2	7:1:9:LEU:CB	2.35	0.44
1:B:84:PHE:CE1	1:B:615:LEU:HB3	2.53	0.44
1:B:107:LEU:HD11	1:B:593:LEU:HD21	2.00	0.44
1:B:116:TYR:HB3	1:C:520:ILE:HG23	1.98	0.44
1:B:210:PHE:HA	1:B:281:ILE:HG22	2.00	0.44
1:B:315:GLN:OE1	1:B:836:MET:HG2	2.18	0.44
1:B:341:ASN:OD1	1:B:341:ASN:N	2.51	0.44
1:B:450:ASN:HB3	1:C:156:THR:HA	2.00	0.44
1:B:827:GLY:HA2	1:B:840:GLN:N	2.33	0.44
1:C:138:LYS:HA	1:C:149:GLN:HA	1.99	0.44
1:C:199:VAL:HG11	1:C:206:GLU:HG3	2.00	0.44
1:C:344:VAL:HB	1:C:353:ASN:OD1	2.18	0.44
1:C:550:LEU:O	1:C:550:LEU:HD23	2.18	0.44
1:C:638:THR:HG21	6:U:175:SER:N	2.32	0.44
1:C:688:THR:HG23	1:C:689:PRO:HD2	2.00	0.44
1:C:747:ARG:CZ	1:C:754:TYR:HB2	2.36	0.44
1:C:878:ASN:OD1	1:C:880:MET:HB3	2.18	0.44
1:C:893:LEU:CD2	6:U:227:ASP:HB3	2.13	0.44
1:D:477:VAL:HG22	1:D:477:VAL:O	2.18	0.44
1:D:637:ASP:OD2	1:D:637:ASP:C	2.45	0.44
1:D:665:ILE:HD12	1:D:665:ILE:C	2.38	0.44
1:D:680:PHE:CD1	1:D:680:PHE:N	2.85	0.44
1:D:769:GLN:HE22	1:D:872:ARG:HG2	1.82	0.44
1:E:134:GLN:C	1:E:135:TRP:CD1	2.91	0.44
1:E:193:PHE:CE1	1:E:284:TYR:HE1	2.35	0.44
1:E:203:ASN:HA	1:F:836:MET:CE	2.47	0.44
1:E:422:THR:HG22	1:E:449:GLN:HB3	1.99	0.44
1:F:138:LYS:CG	1:F:147:VAL:HG12	2.45	0.44
1:F:155:LYS:CD	1:F:261:PHE:HZ	2.30	0.44
1:F:204:TRP:CD1	1:F:204:TRP:N	2.86	0.44
1:F:273:SER:C	1:F:274:GLY:O	2.54	0.44
1:F:479:LEU:HD23	1:F:509:VAL:HG22	1.99	0.44
1:F:640:ASP:OD2	1:F:927:ARG:NH1	2.50	0.44
1:F:745:ILE:CG2	1:F:746:LYS:N	2.81	0.44
1:F:745:ILE:HG13	1:F:765:TRP:CD2	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:760:ASN:H	1:F:760:ASN:ND2	2.06	0.44
1:F:824:ASN:O	1:F:825:ASN:C	2.53	0.44
1:G:159:VAL:CG1	1:H:840:GLN:CB	2.55	0.44
1:G:204:TRP:CZ3	1:H:313:VAL:HG22	2.46	0.44
1:G:220:THR:O	1:G:221:LYS:C	2.56	0.44
1:H:70:PRO:HA	1:H:84:PHE:CD2	2.53	0.44
1:H:613:VAL:O	1:H:613:VAL:CG2	2.61	0.44
1:H:644:ASN:CB	1:H:925:VAL:HG12	2.47	0.44
1:H:701:TYR:CD2	1:H:701:TYR:O	2.71	0.44
1:I:487:TYR:CA	1:I:507:ARG:HH21	2.31	0.44
1:I:489:PRO:HG2	1:I:492:VAL:HG21	1.99	0.44
1:I:536:ASN:HB3	1:I:596:SER:O	2.17	0.44
1:I:747:ARG:NH1	1:I:747:ARG:HG2	2.33	0.44
1:I:757:ALA:C	1:I:759:CYS:H	2.21	0.44
1:I:762:THR:HG22	1:I:763:LYS:H	1.83	0.44
1:I:788:LYS:HG2	1:I:788:LYS:O	2.18	0.44
1:J:135:TRP:N	1:J:154:THR:HA	2.32	0.44
1:K:170:GLN:CD	1:K:185:LYS:HD2	2.37	0.44
1:K:190:ASP:C	1:K:192:THR:H	2.19	0.44
1:K:285:THR:O	1:K:285:THR:CG2	2.66	0.44
1:K:292:THR:O	1:K:292:THR:OG1	2.32	0.44
1:K:526:LEU:C	1:K:528:PRO:HD2	2.38	0.44
1:K:730:SER:CB	1:K:732:PRO:HD2	2.48	0.44
1:K:842:TYR:CD1	1:K:843:PRO:HD2	2.53	0.44
1:K:926:VAL:CG1	1:K:940:TYR:CE2	3.00	0.44
1:K:940:TYR:O	1:K:941:LEU:HB2	2.16	0.44
1:L:169:ASN:ND2	1:L:169:ASN:N	2.65	0.44
1:L:713:TYR:CD1	1:L:713:TYR:C	2.91	0.44
1:L:757:ALA:O	1:L:758:GLN:HB2	2.18	0.44
1:L:943:THR:HG22	1:L:944:PRO:CD	2.47	0.44
5:R:126:ARG:O	5:R:126:ARG:CG	2.66	0.44
6:U:55:LEU:HA	6:U:55:LEU:HD23	1.52	0.44
7:9:25:ILE:HG22	7:9:25:ILE:O	2.17	0.44
1:A:111:PRO:HD2	1:A:604:ASP:O	2.18	0.43
1:A:112:SER:O	1:A:322:ASN:ND2	2.51	0.43
1:A:277:TYR:OH	1:A:279:ALA:HB1	2.18	0.43
1:A:730:SER:CA	1:A:732:PRO:HD2	2.46	0.43
1:B:81:LYS:O	1:B:81:LYS:CG	2.65	0.43
1:C:20:ALA:H	1:C:47:ASN:CB	2.31	0.43
1:C:31:PHE:C	1:C:33:ARG:H	2.22	0.43
1:C:684:LYS:O	1:C:687:GLU:HG2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:733:GLY:O	1:C:736:ARG:CA	2.66	0.43
1:C:827:GLY:N	1:C:839:GLY:HA3	2.33	0.43
1:D:432:ASN:ND2	1:E:169:ASN:H	2.04	0.43
1:E:154:THR:C	1:E:156:THR:N	2.71	0.43
1:E:346:ALA:O	1:E:579:TYR:HB3	2.18	0.43
1:E:421:SER:O	1:E:451:GLN:CB	2.66	0.43
1:E:524:TRP:CD1	1:E:803:ARG:HD3	2.52	0.43
1:E:582:GLU:O	1:E:582:GLU:CG	2.65	0.43
1:E:647:LEU:HA	7:3:4:ILE:CG2	2.48	0.43
1:F:84:PHE:CE2	1:F:614:ASN:HA	2.53	0.43
1:F:135:TRP:CZ2	1:F:153:VAL:CG1	3.00	0.43
1:F:151:LYS:CA	1:F:154:THR:HB	2.46	0.43
1:F:173:LEU:CB	1:F:185:LYS:HG2	2.47	0.43
1:F:736:ARG:NH1	1:F:736:ARG:HG2	2.33	0.43
1:F:902:ASP:OD1	1:F:902:ASP:N	2.50	0.43
1:F:911:ASP:OD1	1:F:912:GLU:N	2.51	0.43
1:G:201:GLU:OE1	1:G:201:GLU:N	2.43	0.43
1:G:447:SER:HB2	1:H:264:PRO:HG3	2.00	0.43
1:H:239:GLN:CG	1:H:240:ALA:N	2.81	0.43
1:H:381:PHE:CE2	1:H:383:MET:HB2	2.53	0.43
1:H:410:TYR:HB2	1:H:412:PHE:CZ	2.53	0.43
1:H:533:ASN:ND2	1:H:535:PHE:H	2.15	0.43
1:I:79:LEU:CD2	1:I:341:ASN:ND2	2.81	0.43
1:I:451:GLN:O	1:I:452:ILE:CG1	2.63	0.43
1:I:811:TYR:CD2	1:I:814:TYR:HB2	2.53	0.43
1:J:78:TYR:CE1	1:J:79:LEU:CG	2.97	0.43
1:J:192:THR:O	1:J:193:PHE:C	2.53	0.43
1:J:327:ARG:HG3	1:J:592:ILE:O	2.18	0.43
1:J:379:ARG:H	1:J:379:ARG:HG2	1.45	0.43
1:J:759:CYS:SG	1:J:798:PHE:HZ	2.41	0.43
1:J:771:LEU:HD21	1:J:778:TYR:HE1	1.83	0.43
1:J:839:GLY:N	1:L:198:GLN:CD	2.71	0.43
1:J:882:MET:HE1	1:J:887:ASP:OD2	2.17	0.43
1:K:93:VAL:HB	1:K:573:LEU:HD12	2.00	0.43
1:K:295:THR:HG22	1:K:318:PRO:CA	2.43	0.43
1:K:341:ASN:ND2	1:K:341:ASN:O	2.50	0.43
1:K:423:TYR:O	1:K:449:GLN:CB	2.66	0.43
1:K:626:THR:C	1:K:628:SER:N	2.71	0.43
1:K:672:TRP:CH2	1:K:901:LEU:CD2	3.01	0.43
1:K:677:GLY:N	1:K:921:GLU:CB	2.73	0.43
1:K:853:GLN:CD	1:K:853:GLN:N	2.69	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:916:LEU:C	1:K:916:LEU:HD12	2.38	0.43
1:L:240:ALA:HB3	1:L:288:VAL:HG12	2.00	0.43
1:L:487:TYR:N	1:L:507:ARG:HH12	2.15	0.43
1:L:597:LEU:O	1:L:597:LEU:HG	2.18	0.43
1:L:717:THR:CB	1:L:908:ASP:OD1	2.52	0.43
1:L:723:ILE:CG2	1:L:901:LEU:CD1	2.96	0.43
1:L:804:GLN:HB2	1:L:850:LEU:HD13	2.00	0.43
1:L:820:PRO:HB2	1:L:821:PHE:CD1	2.53	0.43
1:L:893:LEU:HD23	6:V:227:ASP:CA	2.48	0.43
1:L:943:THR:CG2	1:L:944:PRO:HD3	2.48	0.43
2:N:79:LEU:HD22	2:N:488:ARG:HH12	1.83	0.43
4:M:31:GLN:O	4:M:31:GLN:HG2	2.18	0.43
4:M:255:LEU:O	4:M:259:TYR:HD1	2.01	0.43
4:M:366:ASP:O	4:M:370:ARG:HG2	2.18	0.43
5:P:12:LEU:HD22	5:P:17:LEU:HD21	1.86	0.43
5:P:15:PRO:HB2	5:R:15:PRO:HD3	1.99	0.43
5:Q:42:LEU:N	5:Q:43:PRO:CD	2.80	0.43
6:U:91:LEU:HD21	6:U:169:LEU:HD22	1.99	0.43
6:V:10:MET:HE3	6:V:194:PRO:HB3	2.00	0.43
7:4:27:THR:O	7:4:27:THR:CG2	2.66	0.43
1:A:567:PHE:CE1	1:A:926:VAL:HG13	2.53	0.43
1:A:639:HIS:CB	1:C:24:LEU:HD23	2.48	0.43
1:A:675:PHE:HA	1:A:944:PRO:CG	2.48	0.43
1:A:843:PRO:HA	1:C:228:SER:HG	1.82	0.43
1:A:890:GLN:O	1:A:894:TYR:CE1	2.71	0.43
1:A:905:PHE:CG	1:A:916:LEU:HD21	2.52	0.43
1:B:139:GLU:CB	1:B:152:ASP:OD2	2.66	0.43
1:B:293:PRO:HG3	1:C:849:PRO:HG3	2.00	0.43
1:B:368:GLN:HE22	1:B:377:ARG:NH2	2.08	0.43
1:B:419:THR:HB	1:B:453:CYS:HB2	1.99	0.43
1:B:607:SER:CB	1:B:608:VAL:HG22	2.46	0.43
1:C:67:ARG:O	1:C:67:ARG:HG2	2.18	0.43
1:C:165:ILE:HG13	1:C:175:GLY:HA2	1.99	0.43
1:C:398:ILE:CD1	1:C:473:LEU:HD11	2.47	0.43
1:C:454:LYS:HG2	1:C:454:LYS:O	2.18	0.43
1:C:748:SER:CB	1:C:760:ASN:ND2	2.68	0.43
1:C:807:ASP:HB3	1:C:858:SER:C	2.39	0.43
1:D:507:ARG:HG3	1:D:507:ARG:NH1	2.32	0.43
1:D:608:VAL:HG12	1:D:609:ARG:HG2	1.99	0.43
1:D:800:PRO:O	1:D:801:MET:CB	2.66	0.43
1:E:170:GLN:HG3	1:E:170:GLN:O	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:367:TYR:O	1:E:367:TYR:CG	2.71	0.43
1:E:453:CYS:N	1:F:159:VAL:HA	2.33	0.43
1:E:540:ASN:OD1	1:E:543:LEU:HB2	2.18	0.43
1:E:540:ASN:O	1:E:544:ARG:CG	2.66	0.43
1:E:556:VAL:O	1:E:556:VAL:HG13	2.17	0.43
1:E:911:ASP:O	1:E:912:GLU:HG3	2.17	0.43
1:F:333:LEU:HD13	1:F:592:ILE:HG21	2.00	0.43
1:F:339:THR:HG22	1:H:740:PRO:HG3	1.97	0.43
1:F:339:THR:CB	1:H:740:PRO:HG2	2.47	0.43
1:F:395:VAL:HG21	1:F:537:HIS:CE1	2.53	0.43
1:F:417:THR:HG22	1:F:457:VAL:HG22	1.99	0.43
1:F:527:ASP:N	1:F:528:PRO:CD	2.81	0.43
1:F:713:TYR:CD1	1:F:713:TYR:C	2.91	0.43
1:G:63:ARG:HD3	1:H:735:ASP:OD1	2.17	0.43
1:G:286:GLU:N	1:G:286:GLU:OE2	2.51	0.43
1:G:398:ILE:HG21	1:G:473:LEU:HD11	2.01	0.43
1:G:449:GLN:HB3	1:H:153:VAL:CG2	2.47	0.43
1:G:504:MET:HE1	1:G:599:ASN:HA	2.01	0.43
1:G:513:LEU:C	1:G:513:LEU:CD1	2.77	0.43
1:G:650:ALA:N	1:G:920:PHE:O	2.50	0.43
1:G:684:LYS:HA	1:G:914:THR:HG22	1.99	0.43
1:G:736:ARG:HH22	1:I:58:THR:HG23	1.83	0.43
1:H:180:ALA:C	1:H:181:GLU:OE1	2.56	0.43
1:H:625:ASN:C	1:H:625:ASN:ND2	2.71	0.43
1:H:723:ILE:HA	1:H:903:MET:HB3	2.00	0.43
1:I:352:LEU:HG	8:Z:10:UNK:CB	2.48	0.43
1:I:377:ARG:CZ	1:I:388:VAL:HG22	2.48	0.43
1:J:29:VAL:C	1:J:31:PHE:N	2.71	0.43
1:J:201:GLU:CD	1:K:299:TYR:CE1	2.90	0.43
1:J:295:THR:HG23	1:J:318:PRO:HA	1.99	0.43
1:J:377:ARG:HG3	1:J:791:MET:HE2	2.00	0.43
1:J:774:TYR:HD1	1:J:776:ILE:CG1	2.31	0.43
1:J:863:LYS:O	1:J:863:LYS:HD2	2.15	0.43
1:K:38:TYR:HH	1:L:56:VAL:HG13	1.83	0.43
1:K:278:LYS:HG2	1:K:278:LYS:O	2.16	0.43
1:L:157:PHE:HE1	1:L:312:LEU:CD2	2.30	0.43
1:L:515:ASP:C	1:L:517:TYR:H	2.21	0.43
2:N:182:LEU:HD21	2:N:446:ARG:CG	2.19	0.43
2:N:254:ILE:HG21	2:N:354:TRP:CE2	2.52	0.43
2:N:431:SER:C	2:N:434:ILE:HG22	2.39	0.43
4:M:145:LEU:HD21	4:M:163:ILE:HD13	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:349:MET:HA	4:M:356:ALA:HB1	1.99	0.43
4:M:388:TRP:CE2	4:M:389:LEU:HD23	2.50	0.43
1:A:110:GLY:HA3	1:A:604:ASP:CB	2.47	0.43
1:A:229:PHE:O	1:A:229:PHE:CD2	2.71	0.43
1:A:534:PRO:HD2	1:A:713:TYR:CB	2.47	0.43
1:A:690:SER:C	1:A:692:GLY:N	2.71	0.43
1:A:761:MET:HE3	1:A:766:PHE:HD1	1.83	0.43
1:B:70:PRO:HA	1:B:84:PHE:CD2	2.53	0.43
1:B:109:ARG:HB3	1:B:113:PHE:HB2	2.01	0.43
1:B:155:LYS:HE3	1:B:259:ALA:CB	2.48	0.43
1:B:250:GLN:HE22	1:B:252:LYS:HG2	1.83	0.43
1:B:324:ILE:HG22	1:B:324:ILE:O	2.18	0.43
1:B:424:GLN:HA	1:B:449:GLN:CD	2.38	0.43
1:B:659:LYS:N	1:B:910:MET:O	2.45	0.43
1:B:668:PRO:HB2	2:N:88:PHE:CE2	2.53	0.43
1:C:190:ASP:OD1	1:C:190:ASP:C	2.56	0.43
1:C:194:GLN:C	1:C:196:GLU:N	2.62	0.43
1:C:642:SER:HB3	1:C:927:ARG:HA	2.00	0.43
1:C:880:MET:HG2	1:C:882:MET:CE	2.47	0.43
1:D:159:VAL:HG21	1:F:417:THR:HG21	2.01	0.43
1:D:230:ALA:HB3	1:D:239:GLN:NE2	2.33	0.43
1:D:261:PHE:O	1:D:279:ALA:CB	2.66	0.43
1:D:295:THR:HA	1:D:319:ASN:OD1	2.18	0.43
1:D:296:HIS:O	1:D:316:SER:HB3	2.18	0.43
1:D:487:TYR:CD1	1:D:488:THR:N	2.86	0.43
1:D:566:PHE:CG	1:D:567:PHE:N	2.85	0.43
1:E:99:THR:O	1:E:100:TYR:CB	2.60	0.43
1:E:135:TRP:CH2	1:E:309:GLU:CD	2.87	0.43
1:E:193:PHE:CE1	1:E:284:TYR:CE1	3.06	0.43
1:E:329:ASN:OD1	1:E:386:SER:HB3	2.18	0.43
1:E:330:PHE:CZ	1:E:385:ASN:HB2	2.53	0.43
1:E:403:VAL:HG21	1:E:465:GLN:C	2.38	0.43
1:E:721:VAL:O	1:E:904:THR:O	2.37	0.43
1:F:527:ASP:HA	1:F:530:ASP:HB2	1.99	0.43
1:F:675:PHE:HE1	1:F:875:PHE:CG	2.36	0.43
1:F:803:ARG:NH1	1:F:803:ARG:CG	2.80	0.43
1:G:235:GLU:O	1:G:237:GLY:N	2.51	0.43
1:G:454:LYS:HG3	1:H:211:TYR:CD1	2.53	0.43
1:G:650:ALA:O	1:G:920:PHE:O	2.37	0.43
1:G:817:VAL:O	1:G:817:VAL:HG23	2.18	0.43
1:H:222:MET:HG2	1:H:307:SER:HA	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:281:ILE:O	1:H:281:ILE:CG1	2.64	0.43
1:H:300:LYS:HB3	1:H:300:LYS:HZ3	1.83	0.43
1:H:329:ASN:HD21	1:H:377:ARG:HH21	1.64	0.43
1:H:399:GLU:HG2	1:H:399:GLU:O	2.17	0.43
1:H:699:PHE:CZ	1:H:705:ILE:HD11	2.53	0.43
1:H:701:TYR:CD2	1:H:701:TYR:C	2.91	0.43
1:H:778:TYR:C	1:H:779:GLN:HG2	2.39	0.43
1:H:918:LEU:HG	1:H:919:LEU:N	2.33	0.43
1:I:148:GLN:HE21	1:I:150:GLU:HG2	1.83	0.43
1:I:191:LYS:C	1:I:193:PHE:N	2.71	0.43
1:I:263:VAL:CG1	1:I:264:PRO:HD2	2.48	0.43
1:I:267:SER:HB3	1:I:277:TYR:N	2.33	0.43
1:I:675:PHE:O	1:I:886:THR:CG2	2.67	0.43
1:I:718:PHE:O	1:I:745:ILE:CG2	2.66	0.43
1:I:726:ASP:N	1:I:900:ALA:O	2.46	0.43
1:I:738:LEU:HD23	1:I:754:TYR:CE2	2.53	0.43
1:I:932:HIS:O	1:I:934:GLY:N	2.51	0.43
1:J:56:VAL:CG2	7:9:24:GLU:CG	2.94	0.43
1:J:427:LYS:HB3	1:J:441:GLU:HB3	1.95	0.43
1:J:515:ASP:HB2	1:J:516:ALA:H	1.20	0.43
1:J:724:MET:SD	1:J:728:SER:O	2.76	0.43
1:J:893:LEU:HD23	1:L:4:PRO:O	2.18	0.43
1:K:6:MET:CE	6:V:80:TYR:HB3	2.48	0.43
1:K:225:CYS:O	1:K:226:TYR:C	2.56	0.43
1:K:385:ASN:ND2	1:K:546:ARG:HG3	2.33	0.43
1:K:752:GLU:H	1:K:752:GLU:CD	2.00	0.43
1:L:95:ASP:CG	1:L:96:MET:N	2.70	0.43
1:L:631:GLU:C	1:L:631:GLU:OE2	2.57	0.43
2:N:81:THR:HA	2:N:485:GLY:O	2.18	0.43
2:N:202:LYS:NZ	2:N:452:ILE:C	2.72	0.43
2:N:325:LYS:HB2	3:O:6:ARG:HH11	1.28	0.43
4:M:148:GLN:O	4:M:150:ALA:N	2.52	0.43
6:U:176:SER:O	6:U:177:GLU:HB2	2.17	0.43
1:A:456:ASN:HD22	1:C:837:ARG:HG3	1.83	0.43
1:B:31:PHE:O	1:B:32:ALA:C	2.56	0.43
1:B:46:ARG:HD2	1:C:644:ASN:HD21	1.82	0.43
1:B:133:SER:O	1:B:155:LYS:HA	2.19	0.43
1:B:320:ARG:CD	1:B:597:LEU:HD11	2.47	0.43
1:B:395:VAL:HG21	1:B:537:HIS:CE1	2.52	0.43
1:B:445:ALA:CB	1:C:153:VAL:H	2.31	0.43
1:B:473:LEU:HD23	1:B:515:ASP:O	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:551:GLY:HA3	1:C:804:GLN:OE1	2.19	0.43
1:B:927:ARG:O	1:B:928:VAL:CG1	2.64	0.43
1:C:174:LEU:HD11	1:C:191:LYS:CE	2.47	0.43
1:D:241:LYS:O	1:D:255:ASP:HB2	2.18	0.43
1:D:398:ILE:HD11	1:D:477:VAL:HG21	2.00	0.43
1:D:401:HIS:O	1:D:402:GLY:C	2.54	0.43
1:D:686:LYS:NZ	1:D:701:TYR:HB2	2.33	0.43
1:E:14:HIS:C	1:E:16:ALA:N	2.71	0.43
1:E:32:ALA:CA	1:E:41:LEU:HD21	2.48	0.43
1:E:910:MET:HE3	1:E:910:MET:HB3	1.71	0.43
1:F:192:THR:HG22	1:F:193:PHE:N	2.34	0.43
1:F:376:ASP:O	1:F:377:ARG:HB2	2.19	0.43
1:F:767:LEU:O	1:F:768:VAL:C	2.56	0.43
1:G:220:THR:O	1:G:220:THR:HG22	2.16	0.43
1:G:256:ILE:H	1:G:256:ILE:CD1	2.08	0.43
1:G:276:GLU:HB3	1:I:440:TRP:CD2	2.52	0.43
1:G:277:TYR:N	1:I:440:TRP:CZ3	2.86	0.43
1:G:292:THR:CB	1:G:295:THR:HG23	2.46	0.43
1:G:494:LEU:HD12	1:G:507:ARG:CD	2.48	0.43
1:G:737:LEU:O	1:I:63:ARG:NH1	2.52	0.43
1:G:831:TYR:C	1:G:831:TYR:CD1	2.88	0.43
1:H:113:PHE:CE2	1:H:115:PRO:HD3	2.53	0.43
1:H:473:LEU:O	1:H:477:VAL:HG12	2.19	0.43
1:H:702:SER:O	1:H:703:GLY:O	2.36	0.43
1:H:819:LEU:N	1:H:820:PRO:CD	2.81	0.43
1:H:840:GLN:HE21	1:H:840:GLN:HB3	1.51	0.43
1:H:942:ARG:O	1:H:946:SER:CA	2.66	0.43
1:I:351:GLN:NE2	1:I:351:GLN:CA	2.74	0.43
1:I:581:TYR:HE2	1:I:583:TRP:CE3	2.37	0.43
1:J:590:ASN:HD22	1:J:590:ASN:HA	1.52	0.43
1:K:235:GLU:HB2	1:L:816:ALA:HB3	1.99	0.43
1:K:771:LEU:HD12	1:K:775:ASN:HA	1.99	0.43
1:K:937:GLU:CD	6:U:37:GLY:HA3	2.36	0.43
1:L:267:SER:HB3	1:L:277:TYR:H	1.81	0.43
1:L:502:GLU:OE1	1:L:502:GLU:C	2.56	0.43
1:L:744:GLU:HA	1:L:744:GLU:OE1	2.18	0.43
1:L:865:LEU:HD23	1:L:865:LEU:C	2.37	0.43
1:L:878:ASN:OD1	1:L:880:MET:HG2	2.18	0.43
1:L:893:LEU:HD22	6:V:225:GLY:HA3	2.00	0.43
1:L:907:VAL:HG22	1:L:908:ASP:N	2.32	0.43
1:L:922:VAL:O	1:L:922:VAL:CG2	2.66	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:100:PHE:HB2	2:N:481:SER:O	2.17	0.43
2:N:141:PRO:HB2	2:N:144:VAL:HB	1.99	0.43
2:N:186:LEU:HD12	2:N:190:ARG:HD3	1.99	0.43
2:N:235:LEU:CD2	2:N:240:GLY:HA2	2.48	0.43
2:N:379:THR:HG22	2:N:420:ALA:HB2	2.00	0.43
5:Q:35:THR:N	5:Q:43:PRO:CD	2.82	0.43
6:V:216:PHE:HA	6:V:223:VAL:HG22	1.99	0.43
7:4:24:GLU:O	7:4:26:GLY:N	2.51	0.43
1:A:462:ILE:O	1:A:462:ILE:HG12	2.15	0.43
1:A:499:ASN:HB3	1:A:600:ASP:HB2	2.00	0.43
1:A:691:LEU:HD12	1:A:691:LEU:HA	1.89	0.43
1:A:761:MET:HE3	1:A:766:PHE:HA	1.99	0.43
1:A:825:ASN:HD22	1:C:123:SER:N	2.16	0.43
1:B:161:ALA:O	1:B:198:GLN:OE1	2.36	0.43
1:B:315:GLN:NE2	1:B:835:THR:CA	2.82	0.43
1:B:327:ARG:O	1:B:330:PHE:HA	2.18	0.43
1:B:336:TYR:CB	1:B:337:ASN:HD22	2.32	0.43
1:B:381:PHE:CE2	1:B:383:MET:HB3	2.53	0.43
1:B:515:ASP:CG	1:B:516:ALA:N	2.72	0.43
1:B:704:SER:O	1:B:705:ILE:HB	2.18	0.43
1:B:770:MET:HG3	1:B:776:ILE:HG13	1.99	0.43
1:C:121:TYR:HE2	1:C:229:PHE:CD1	2.31	0.43
1:C:187:ILE:C	1:C:189:ALA:N	2.72	0.43
1:C:241:LYS:HD3	1:C:256:ILE:CG1	2.48	0.43
1:C:442:LYS:O	1:C:443:ASP:OD1	2.37	0.43
1:C:486:LYS:HZ3	1:C:509:VAL:HG11	1.83	0.43
1:C:662:ASN:H	1:C:906:GLU:HG3	1.83	0.43
1:C:805:VAL:HG23	1:C:859:VAL:HG12	1.99	0.43
1:D:28:LEU:N	1:E:633:MET:HE2	2.34	0.43
1:D:46:ARG:CZ	1:E:925:VAL:HG11	2.49	0.43
1:D:289:ASN:O	1:D:291:GLU:HG3	2.18	0.43
1:D:885:LEU:HD23	1:D:885:LEU:HA	1.89	0.43
1:D:892:MET:SD	1:F:3:THR:CB	3.05	0.43
1:E:23:TYR:CE1	1:E:24:LEU:HG	2.53	0.43
1:E:136:GLU:O	1:E:136:GLU:HG3	2.18	0.43
1:E:202:GLU:HG3	1:F:313:VAL:HG21	2.00	0.43
1:E:275:GLU:HB2	1:E:276:GLU:CG	2.47	0.43
1:E:552:ASN:HD22	1:F:521:GLY:C	2.22	0.43
1:E:662:ASN:HA	1:E:906:GLU:HA	2.00	0.43
1:F:161:ALA:HA	1:F:211:TYR:CD2	2.53	0.43
1:F:250:GLN:CB	1:F:251:PRO:CD	2.97	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:427:LYS:HD2	1:F:442:LYS:CD	2.48	0.43
1:F:527:ASP:N	1:F:528:PRO:HD2	2.34	0.43
1:F:602:ARG:HD3	5:R:35:THR:HB	2.00	0.43
1:F:702:SER:O	1:F:703:GLY:C	2.55	0.43
1:G:210:PHE:HA	1:G:280:ASP:O	2.18	0.43
1:G:372:ASP:HA	1:G:377:ARG:HG3	2.00	0.43
1:G:403:VAL:HG21	1:G:466:ALA:HB2	2.00	0.43
1:G:443:ASP:HB3	1:H:150:GLU:CG	2.40	0.43
1:G:785:GLU:HG2	1:G:786:GLY:H	1.84	0.43
1:G:808:GLU:CG	1:G:814:TYR:CE2	3.01	0.43
1:H:94:LEU:CG	1:H:619:PHE:CE1	2.98	0.43
1:H:513:LEU:HD13	1:H:819:LEU:CD1	2.48	0.43
1:H:554:ARG:HB2	1:H:555:TYR:CE2	2.54	0.43
1:H:846:PHE:CG	1:H:847:PRO:HD3	2.44	0.43
1:I:33:ARG:CG	1:I:34:ALA:N	2.79	0.43
1:I:219:ASP:OD2	1:I:287:ASN:HB3	2.18	0.43
1:I:222:MET:HE1	1:I:312:LEU:HD13	2.01	0.43
1:I:407:LEU:HD12	1:I:407:LEU:O	2.19	0.43
1:I:850:LEU:HD23	1:I:850:LEU:HA	1.82	0.43
1:I:856:VAL:CG2	1:I:857:PRO:HD2	2.47	0.43
1:J:169:ASN:OD1	1:L:428:ILE:CD1	2.66	0.43
1:J:262:ASP:HB2	1:L:426:VAL:CG1	2.47	0.43
1:J:498:THR:C	1:J:499:ASN:HD22	2.21	0.43
1:J:499:ASN:HA	1:J:504:MET:CE	2.49	0.43
1:J:554:ARG:HG3	1:J:554:ARG:NH1	2.32	0.43
1:J:569:ILE:O	1:J:569:ILE:CG2	2.65	0.43
1:K:20:ALA:C	1:K:22:GLU:H	2.22	0.43
1:K:83:ARG:HG3	1:K:582:GLU:HB2	2.01	0.43
1:K:328:ASP:N	1:K:546:ARG:NH1	2.66	0.43
1:K:440:TRP:CD2	1:L:276:GLU:CD	2.90	0.43
1:K:635:ARG:HE	1:K:635:ARG:HB3	1.37	0.43
1:K:761:MET:SD	1:K:765:TRP:HD1	2.42	0.43
1:K:764:ASP:C	1:K:767:LEU:H	2.20	0.43
1:K:888:LEU:O	1:K:888:LEU:HG	2.18	0.43
1:K:943:THR:CG2	1:K:944:PRO:HD3	2.49	0.43
1:L:227:GLY:O	1:L:292:THR:HB	2.19	0.43
1:L:333:LEU:CG	1:L:592:ILE:HG21	2.47	0.43
1:L:370:LEU:O	1:L:372:ASP:N	2.51	0.43
1:L:403:VAL:HG11	1:L:466:ALA:CA	2.48	0.43
1:L:489:PRO:CD	1:L:508:VAL:CG1	2.96	0.43
2:N:256:LYS:HD3	2:N:258:GLN:O	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:272:GLU:HG3	2:N:352:ARG:NH2	2.34	0.43
2:N:396:PRO:HD2	2:N:409:PRO:CB	2.48	0.43
4:M:387:HIS:O	4:M:390:PRO:HD3	2.18	0.43
5:P:15:PRO:HB2	5:R:15:PRO:CD	2.49	0.43
6:U:197:TYR:CE2	6:U:200:PRO:N	2.85	0.43
7:6:9:LEU:C	7:6:11:PRO:HD2	2.38	0.43
1:A:6:MET:CE	4:M:64:ARG:HB2	2.48	0.43
1:A:13:MET:HG2	1:B:941:LEU:HD12	2.00	0.43
1:A:88:VAL:O	1:A:89:GLY:O	2.37	0.43
1:A:338:SER:C	1:A:340:GLY:H	2.21	0.43
1:A:537:HIS:C	1:A:539:ARG:H	2.20	0.43
1:A:828:PHE:HA	1:A:837:ARG:HG3	2.01	0.43
1:B:38:TYR:CZ	1:C:56:VAL:HG22	2.52	0.43
1:B:134:GLN:HE22	1:B:285:THR:CG2	2.19	0.43
1:B:440:TRP:CH2	1:B:446:ILE:HG21	2.54	0.43
1:B:700:VAL:HG12	1:B:700:VAL:O	2.19	0.43
1:C:107:LEU:HD12	1:C:593:LEU:HD21	2.00	0.43
1:C:257:ASP:O	1:C:258:PHE:CD1	2.71	0.43
1:C:291:GLU:O	1:C:293:PRO:HD3	2.17	0.43
1:C:330:PHE:CE2	1:C:560:ILE:HB	2.53	0.43
1:C:424:GLN:HB2	1:C:445:ALA:O	2.18	0.43
1:C:892:MET:HB2	6:U:224:ASP:HB2	2.00	0.43
1:C:935:VAL:O	1:C:935:VAL:HG12	2.18	0.43
1:D:14:HIS:CE1	1:E:927:ARG:HH11	2.37	0.43
1:D:113:PHE:O	1:E:851:ILE:HB	2.18	0.43
1:D:215:ALA:HB3	1:D:285:THR:CG2	2.41	0.43
1:D:267:SER:N	1:D:268:PRO:HD2	2.32	0.43
1:D:390:SER:OG	1:D:541:ALA:HB3	2.18	0.43
1:D:422:THR:O	1:E:264:PRO:HD3	2.18	0.43
1:D:638:THR:HG21	1:F:25:SER:HB3	2.00	0.43
1:D:731:TRP:CD1	1:D:732:PRO:CD	3.02	0.43
1:E:66:LEU:CD1	1:E:619:PHE:HE1	2.31	0.43
1:E:155:LYS:NZ	1:E:283:LEU:CB	2.65	0.43
1:E:262:ASP:OD1	1:E:277:TYR:O	2.36	0.43
1:E:350:SER:O	1:E:351:GLN:HB2	2.18	0.43
1:F:278:LYS:O	1:F:280:ASP:OD1	2.36	0.43
1:F:309:GLU:CA	1:F:312:LEU:HD13	2.30	0.43
1:F:336:TYR:CD1	1:F:364:GLU:OE2	2.71	0.43
1:F:761:MET:HE3	1:F:798:PHE:HE1	1.83	0.43
1:G:55:ASP:HB3	1:G:626:THR:OG1	2.19	0.43
1:G:138:LYS:HG2	1:G:149:GLN:HB2	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:194:GLN:HE21	1:H:821:PHE:CA	2.32	0.43
1:G:497:ASN:HB2	5:R:88:SER:HB2	2.01	0.43
1:G:747:ARG:HH11	1:G:747:ARG:CG	2.32	0.43
1:G:869:VAL:CG2	1:G:870:MET:H	2.06	0.43
1:G:893:LEU:CD2	1:G:894:TYR:CE1	2.99	0.43
1:H:25:SER:H	1:I:639:HIS:CE1	2.37	0.43
1:H:277:TYR:CD1	1:H:278:LYS:N	2.86	0.43
1:H:705:ILE:O	1:H:707:TYR:N	2.52	0.43
1:H:747:ARG:HD2	1:H:762:THR:HG21	2.00	0.43
1:I:124:LEU:HD23	1:I:124:LEU:HA	1.78	0.43
1:I:361:ARG:O	1:I:362:ASN:CB	2.63	0.43
1:I:372:ASP:OD1	1:I:372:ASP:C	2.56	0.43
1:I:756:VAL:CG1	1:I:763:LYS:HA	2.49	0.43
1:J:27:GLY:O	1:J:30:GLN:NE2	2.51	0.43
1:J:58:THR:HG23	1:K:736:ARG:HH22	1.84	0.43
1:J:126:PRO:HG2	1:J:129:ALA:CB	2.46	0.43
1:J:198:GLN:O	1:K:838:GLN:HB2	2.19	0.43
1:J:282:ILE:HG12	1:J:283:LEU:N	2.32	0.43
1:J:428:ILE:HG12	1:K:278:LYS:CE	2.48	0.43
1:J:571:ASN:ND2	1:L:43:ASN:HD22	2.16	0.43
1:J:804:GLN:HB2	1:L:552:ASN:OD1	2.18	0.43
1:K:7:MET:HE1	1:K:12:TYR:CD1	2.45	0.43
1:K:9:GLN:HA	1:K:12:TYR:HB3	2.00	0.43
1:K:441:GLU:OE1	1:K:441:GLU:CA	2.54	0.43
1:K:517:TYR:CD1	1:K:517:TYR:O	2.71	0.43
1:K:788:LYS:O	1:K:788:LYS:CG	2.66	0.43
1:K:882:MET:H	1:K:882:MET:HG2	1.53	0.43
1:L:192:THR:C	1:L:193:PHE:CG	2.92	0.43
2:N:347:HIS:CE1	3:O:2:ALA:N	2.87	0.43
2:N:378:VAL:HG22	2:N:463:THR:HG22	2.00	0.43
3:O:10:ASP:OD2	3:O:10:ASP:N	2.50	0.43
5:S:24:TRP:CD1	5:S:24:TRP:O	2.71	0.43
1:A:229:PHE:CD2	1:A:229:PHE:C	2.88	0.43
1:A:464:LEU:HD12	1:B:464:LEU:HD11	2.00	0.43
1:A:475:SER:O	1:A:476:ASN:ND2	2.49	0.43
1:A:731:TRP:HD1	1:A:888:LEU:CD1	2.31	0.43
1:A:778:TYR:C	1:A:779:GLN:HG3	2.38	0.43
1:A:781:PHE:O	1:C:381:PHE:HE2	2.02	0.43
1:B:74:GLU:HA	1:B:74:GLU:OE1	2.19	0.43
1:B:188:TYR:HD1	1:B:256:ILE:HD13	1.83	0.43
1:B:208:GLU:O	1:B:211:TYR:HE1	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:482:PRO:HD3	1:B:529:MET:HB3	2.01	0.43
1:B:544:ARG:O	1:B:548:MET:CE	2.67	0.43
1:B:757:ALA:O	1:B:758:GLN:HB2	2.18	0.43
1:C:70:PRO:HA	1:C:84:PHE:CD2	2.54	0.43
1:C:168:THR:C	1:C:170:GLN:N	2.71	0.43
1:C:390:SER:H	1:C:540:ASN:ND2	2.16	0.43
1:C:713:TYR:O	1:C:715:ASN:N	2.51	0.43
1:C:764:ASP:C	1:C:766:PHE:N	2.70	0.43
1:C:931:PRO:HD2	1:C:935:VAL:HG12	1.97	0.43
1:D:50:VAL:HG22	1:E:885:LEU:HD12	1.99	0.43
1:D:199:VAL:HG23	1:D:208:GLU:HG2	2.00	0.43
1:D:203:ASN:CB	1:E:836:MET:SD	3.05	0.43
1:E:96:MET:HB3	1:E:572:LEU:H	1.83	0.43
1:E:173:LEU:CD1	1:E:183:GLY:HA3	2.48	0.43
1:E:305:ASP:OD1	1:E:305:ASP:N	2.51	0.43
1:E:638:THR:O	1:E:638:THR:CG2	2.66	0.43
1:F:337:ASN:OD1	1:F:361:ARG:O	2.37	0.43
1:F:367:TYR:CE2	1:F:565:LYS:HD2	2.53	0.43
1:F:667:ILE:HD11	1:F:901:LEU:CD2	2.48	0.43
1:F:942:ARG:HH21	1:F:947:ALA:CB	2.23	0.43
1:G:296:HIS:CE1	1:G:317:MET:HG2	2.51	0.43
1:G:509:VAL:HG12	1:G:510:ALA:N	2.34	0.43
1:G:515:ASP:C	1:G:517:TYR:H	2.22	0.43
1:G:573:LEU:O	1:G:573:LEU:HG	2.18	0.43
1:G:591:MET:HE2	1:G:591:MET:HB3	1.76	0.43
1:G:860:THR:HG21	1:I:557:PRO:HD2	2.01	0.43
1:G:882:MET:HG2	1:H:38:TYR:CD2	2.52	0.43
1:H:38:TYR:OH	7:5:24:GLU:HB3	2.19	0.43
1:H:177:ASP:CG	1:H:184:LYS:NZ	2.71	0.43
1:H:499:ASN:HB3	1:H:600:ASP:HB2	2.01	0.43
1:H:573:LEU:HD23	1:H:634:LEU:HD21	2.00	0.43
1:H:692:GLY:CA	5:Q:23:GLY:O	2.58	0.43
1:H:769:GLN:HE22	1:H:872:ARG:H	1.67	0.43
1:I:396:ARG:HD2	1:I:396:ARG:HA	1.74	0.43
1:I:453:CYS:SG	1:I:453:CYS:O	2.77	0.43
1:I:658:ALA:HB1	1:I:911:ASP:O	2.18	0.43
1:I:705:ILE:HD11	1:I:708:LEU:CD1	2.49	0.43
1:I:774:TYR:OH	1:I:795:PHE:N	2.45	0.43
1:I:887:ASP:OD2	1:I:887:ASP:O	2.37	0.43
1:J:54:HIS:HB3	7:9:25:ILE:HD13	2.00	0.43
1:J:170:GLN:CG	1:J:185:LYS:HG3	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:198:GLN:NE2	1:K:840:GLN:HB3	2.34	0.43
1:J:603:VAL:O	1:J:603:VAL:CG1	2.67	0.43
1:J:651:ASN:N	1:J:651:ASN:ND2	2.67	0.43
1:J:663:VAL:CG2	5:P:17:LEU:HD11	2.48	0.43
1:J:730:SER:CA	1:J:732:PRO:HD2	2.48	0.43
1:J:811:TYR:CD2	1:J:814:TYR:N	2.87	0.43
1:J:875:PHE:HB3	1:J:886:THR:HG21	1.99	0.43
1:K:644:ASN:HB3	1:K:925:VAL:HG12	2.00	0.43
1:K:682:ARG:HH11	1:K:907:VAL:HG11	1.83	0.43
1:L:210:PHE:CD1	1:L:210:PHE:N	2.87	0.43
1:L:268:PRO:N	1:L:277:TYR:HE2	2.09	0.43
1:L:515:ASP:O	1:L:517:TYR:N	2.51	0.43
1:L:720:LYS:CB	1:L:743:PHE:O	2.67	0.43
1:L:942:ARG:HB2	1:L:942:ARG:HH11	1.84	0.43
4:M:255:LEU:HD22	4:M:259:TYR:CE1	2.53	0.43
5:P:54:VAL:CG1	5:P:55:GLY:N	2.82	0.43
5:P:96:ILE:HG22	5:P:97:ALA:N	2.33	0.43
6:V:213:ILE:H	6:V:213:ILE:CD1	2.07	0.43
7:4:19:MET:HB2	7:4:22:TRP:HD1	1.78	0.43
1:A:158:GLY:CA	1:C:452:ILE:HA	2.49	0.43
1:A:167:ILE:HD11	1:A:172:LEU:HG	2.01	0.43
1:A:391:TYR:O	1:A:392:ASP:O	2.37	0.43
1:A:597:LEU:HD12	1:A:597:LEU:HA	1.88	0.43
1:A:643:PHE:CD1	1:A:643:PHE:N	2.86	0.43
1:A:794:PHE:O	1:A:796:ARG:N	2.51	0.43
1:B:198:GLN:C	1:B:199:VAL:O	2.53	0.43
1:B:199:VAL:CG1	1:B:200:GLY:N	2.80	0.43
1:B:687:GLU:HG2	1:B:701:TYR:CD1	2.52	0.43
1:B:714:LEU:O	1:B:714:LEU:HG	2.19	0.43
1:C:76:THR:OG1	1:C:79:LEU:HB3	2.18	0.43
1:C:107:LEU:HB3	1:C:558:PHE:CD2	2.54	0.43
1:C:134:GLN:CB	1:C:155:LYS:N	2.81	0.43
1:C:192:THR:HG21	1:C:214:ARG:NH1	2.23	0.43
1:C:220:THR:OG1	1:C:287:ASN:HB3	2.19	0.43
1:C:266:GLY:HA2	1:C:277:TYR:CE2	2.54	0.43
1:C:648:SER:HB2	1:C:922:VAL:O	2.19	0.43
1:D:166:ASN:OD1	1:D:168:THR:HG23	2.18	0.43
1:D:278:LYS:NZ	1:F:434:GLY:O	2.25	0.43
1:D:296:HIS:O	1:D:316:SER:CB	2.67	0.43
1:D:301:PRO:HB3	1:F:202:GLU:OE1	2.18	0.43
1:D:322:ASN:OD1	1:D:597:LEU:HB2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:573:LEU:HD23	1:D:634:LEU:HD13	1.99	0.43
1:D:663:VAL:HG11	1:D:916:LEU:HD22	2.00	0.43
1:D:774:TYR:CE1	1:D:789:ASP:HB3	2.54	0.43
1:E:64:LEU:HD12	1:F:736:ARG:CD	2.48	0.43
1:E:451:GLN:H	1:E:451:GLN:HG2	1.58	0.43
1:E:833:ALA:HB1	1:E:835:THR:HG23	2.01	0.43
1:F:31:PHE:O	1:F:33:ARG:N	2.51	0.43
1:F:222:MET:HE1	1:F:311:ASN:HB2	2.00	0.43
1:F:268:PRO:O	1:F:269:PRO:C	2.57	0.43
1:F:525:SER:O	1:F:526:LEU:C	2.57	0.43
1:F:600:ASP:OD1	1:F:603:VAL:HG13	2.19	0.43
1:F:672:TRP:CZ2	1:F:901:LEU:CD2	2.91	0.43
1:F:804:GLN:HE21	1:F:804:GLN:HB3	1.45	0.43
1:G:63:ARG:HD3	1:G:63:ARG:HA	1.82	0.43
1:G:76:THR:O	1:G:77:THR:C	2.56	0.43
1:G:138:LYS:HG2	1:G:149:GLN:CB	2.48	0.43
1:G:150:GLU:HG3	1:I:443:ASP:HB3	1.99	0.43
1:G:256:ILE:HA	1:G:286:GLU:HB3	2.00	0.43
1:G:317:MET:HG3	1:G:317:MET:O	2.18	0.43
1:G:400:ASN:HD21	1:G:520:ILE:HG23	1.84	0.43
1:G:878:ASN:ND2	1:G:878:ASN:N	2.42	0.43
1:H:515:ASP:CG	1:H:516:ALA:H	2.22	0.43
1:H:685:THR:O	1:H:685:THR:CG2	2.66	0.43
1:I:133:SER:HB3	1:I:134:GLN:H	1.65	0.43
1:I:309:GLU:CD	1:I:309:GLU:C	2.77	0.43
1:I:510:ALA:CB	1:I:832:LEU:CA	2.96	0.43
1:I:932:HIS:H	1:I:935:VAL:CG1	2.32	0.43
1:J:136:GLU:OE2	1:J:218:LYS:HG2	2.19	0.43
1:J:296:HIS:NE2	1:J:317:MET:HE2	2.34	0.43
1:J:409:ASN:HB2	1:L:467:ASN:ND2	2.33	0.43
1:J:428:ILE:HG12	1:K:278:LYS:HE3	2.00	0.43
1:J:486:LYS:HE3	1:J:509:VAL:CG2	2.48	0.43
1:J:748:SER:HA	5:Q:54:VAL:CG1	2.48	0.43
1:J:748:SER:OG	1:J:749:VAL:HG23	2.19	0.43
1:J:779:GLN:CA	1:J:779:GLN:NE2	2.79	0.43
1:K:74:GLU:O	1:K:74:GLU:HG3	2.18	0.43
1:K:166:ASN:HB2	1:K:210:PHE:CZ	2.54	0.43
1:K:201:GLU:OE2	1:L:835:THR:CB	2.63	0.43
1:K:240:ALA:HB3	1:K:288:VAL:HB	2.01	0.43
1:K:241:LYS:HZ2	1:K:256:ILE:CD1	2.11	0.43
1:K:381:PHE:HB2	1:L:783:VAL:CG1	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:465:GLN:OE1	1:K:465:GLN:O	2.37	0.43
1:K:663:VAL:O	1:K:663:VAL:CG1	2.62	0.43
1:K:828:PHE:CZ	1:K:841:PRO:HB3	2.54	0.43
1:K:907:VAL:HG12	1:K:908:ASP:N	2.34	0.43
1:L:64:LEU:CD1	1:L:621:PRO:HD3	2.48	0.43
1:L:138:LYS:HB3	1:L:147:VAL:HG11	2.00	0.43
1:L:150:GLU:C	1:L:152:ASP:N	2.70	0.43
1:L:852:GLY:C	1:L:854:THR:N	2.72	0.43
2:N:31:ARG:HB3	2:N:31:ARG:NH1	2.34	0.43
2:N:342:LEU:H	2:N:342:LEU:CD1	2.30	0.43
4:M:48:PRO:HG2	4:M:51:ASN:OD1	2.18	0.43
5:P:15:PRO:C	5:Q:18:THR:HG1	2.22	0.43
5:Q:28:ARG:HB2	5:Q:31:VAL:HG23	2.00	0.43
5:R:29:GLN:O	5:R:48:THR:CB	2.67	0.43
5:S:13:PHE:CD1	5:S:14:SER:N	2.87	0.43
6:U:179:ARG:HG2	6:U:180:SER:N	2.33	0.43
6:U:197:TYR:HE2	6:U:200:PRO:N	2.05	0.43
7:9:24:GLU:CD	7:9:27:THR:HG1	2.22	0.43
1:A:124:LEU:N	1:B:825:ASN:HD21	2.15	0.43
1:A:277:TYR:CE1	1:A:279:ALA:N	2.87	0.43
1:A:651:ASN:HB3	1:A:919:LEU:HD13	1.99	0.43
1:B:13:MET:HB2	1:B:15:ILE:CG1	2.49	0.43
1:B:77:THR:HG22	1:B:78:TYR:CD2	2.52	0.43
1:B:135:TRP:CZ3	1:B:309:GLU:HB2	2.39	0.43
1:B:157:PHE:HD1	1:B:312:LEU:HD21	1.83	0.43
1:B:326:PHE:CD2	1:B:550:LEU:HD21	2.54	0.43
1:B:718:PHE:CD2	1:B:907:VAL:HG12	2.53	0.43
1:C:21:SER:CB	7:2:11:PRO:CD	2.97	0.43
1:C:69:VAL:HG22	1:C:70:PRO:N	2.34	0.43
1:C:103:ILE:HA	1:C:612:SER:O	2.18	0.43
1:C:174:LEU:HB2	1:C:184:LYS:CE	2.46	0.43
1:C:790:ARG:N	1:C:793:SER:OG	2.50	0.43
1:D:167:ILE:HG13	1:D:210:PHE:CD2	2.54	0.43
1:D:330:PHE:HB3	1:D:333:LEU:HD12	2.01	0.43
1:D:452:ILE:HA	1:E:158:GLY:O	2.19	0.43
1:D:543:LEU:CD2	1:D:596:SER:HA	2.49	0.43
1:D:670:ARG:HB3	1:D:670:ARG:HH11	1.82	0.43
1:E:53:THR:H	7:3:25:ILE:HD11	1.84	0.43
1:E:88:VAL:HG21	1:E:575:LEU:O	2.19	0.43
1:E:107:LEU:HD12	1:E:107:LEU:O	2.18	0.43
1:E:517:TYR:CD1	1:E:517:TYR:C	2.93	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:529:MET:O	1:E:532:VAL:HG12	2.18	0.43
1:E:620:PHE:HD1	1:F:778:TYR:CD2	2.35	0.43
1:F:62:GLN:O	1:F:63:ARG:C	2.57	0.43
1:F:233:THR:HG21	1:F:254:LEU:HD22	1.99	0.43
1:F:912:GLU:HG2	1:F:913:PRO:HD2	2.01	0.43
1:G:46:ARG:CB	1:G:46:ARG:HH11	2.32	0.43
1:G:84:PHE:HE2	1:G:613:VAL:O	2.02	0.43
1:G:159:VAL:HG11	1:H:840:GLN:HB2	1.84	0.43
1:G:170:GLN:CG	1:G:171:GLY:N	2.78	0.43
1:G:662:ASN:CB	1:G:906:GLU:HB2	2.49	0.43
1:G:680:PHE:O	1:G:680:PHE:HD2	1.89	0.43
1:G:697:PRO:O	5:R:81:TYR:CB	2.65	0.43
1:H:50:VAL:HA	1:I:885:LEU:HB2	2.01	0.43
1:H:116:TYR:CD1	1:I:520:ILE:CG2	3.01	0.43
1:I:285:THR:O	1:I:286:GLU:HB3	2.18	0.43
1:I:329:ASN:O	1:I:330:PHE:HB2	2.18	0.43
1:I:575:LEU:HB2	1:I:635:ARG:HH21	1.77	0.43
1:I:806:VAL:HG11	1:I:848:TYR:CD2	2.54	0.43
1:J:45:PHE:CD2	1:K:640:ASP:O	2.72	0.43
1:J:191:LYS:CB	1:J:194:GLN:NE2	2.72	0.43
1:J:276:GLU:CA	1:L:440:TRP:CZ3	3.02	0.43
1:J:313:VAL:HG12	1:L:204:TRP:CZ2	2.54	0.43
1:J:695:PHE:O	1:J:695:PHE:CG	2.68	0.43
1:K:49:THR:HB	1:L:884:ALA:CB	2.48	0.43
1:K:170:GLN:CG	1:K:185:LYS:HD2	2.49	0.43
1:K:261:PHE:C	1:K:280:ASP:HB2	2.38	0.43
1:K:443:ASP:HB3	1:L:150:GLU:CB	2.22	0.43
1:L:231:ARG:O	1:L:240:ALA:HB2	2.19	0.43
1:L:234:ASN:C	1:L:236:LYS:N	2.73	0.43
1:L:403:VAL:HG21	1:L:466:ALA:HA	2.01	0.43
2:N:76:SER:O	2:N:498:THR:HG21	2.19	0.43
2:N:342:LEU:HA	2:N:349:THR:HA	2.01	0.43
2:N:428:ALA:CB	2:N:460:THR:HG22	2.37	0.43
4:M:179:TYR:CE2	4:M:188:GLN:HG3	2.54	0.43
4:M:265:GLN:C	4:M:267:GLN:N	2.71	0.43
5:P:65:ALA:O	5:P:69:ALA:HB3	2.18	0.43
5:Q:21:LEU:HD12	5:Q:22:PRO:HD2	2.00	0.43
6:U:31:MET:HE2	6:U:44:VAL:CG2	2.49	0.43
7:1:9:LEU:O	7:1:11:PRO:CD	2.66	0.43
1:A:122:ASN:HA	1:B:825:ASN:HA	2.00	0.43
1:A:141:GLN:O	1:A:141:GLN:HG3	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:156:THR:HG22	1:A:157:PHE:CD1	2.53	0.43
1:A:389:ASP:HB3	1:A:535:PHE:CD1	2.54	0.43
1:A:514:VAL:CG2	1:A:526:LEU:HD22	2.48	0.43
1:A:687:GLU:HB3	1:A:701:TYR:CE2	2.54	0.43
1:B:28:LEU:O	1:B:28:LEU:HG	2.18	0.43
1:B:80:TYR:O	1:B:584:ASN:HB3	2.17	0.43
1:B:124:LEU:HD21	1:C:467:ASN:HA	2.00	0.43
1:B:169:ASN:C	1:B:169:ASN:ND2	2.70	0.43
1:B:748:SER:O	1:B:749:VAL:HB	2.19	0.43
1:C:24:LEU:HD11	1:C:45:PHE:CD2	2.54	0.43
1:C:223:LYS:CB	1:C:224:PRO:HD2	2.48	0.43
1:C:410:TYR:CE2	1:C:461:GLU:HG2	2.54	0.43
1:C:653:LEU:HD23	1:C:917:TYR:HD1	1.84	0.43
1:C:811:TYR:HB2	1:C:857:PRO:HG2	2.01	0.43
1:C:928:VAL:O	1:C:928:VAL:CG2	2.67	0.43
1:D:84:PHE:CE1	1:D:615:LEU:HB2	2.54	0.43
1:D:193:PHE:HE2	1:E:840:GLN:NE2	2.17	0.43
1:D:242:PHE:HB3	1:D:243:LYS:H	1.54	0.43
1:D:445:ALA:CB	1:D:450:ASN:HD21	2.26	0.43
1:D:479:LEU:HD23	1:D:509:VAL:CG2	2.49	0.43
1:D:822:GLN:CB	1:D:846:PHE:HD1	2.32	0.43
1:E:10:TRP:CA	1:E:15:ILE:HG22	2.49	0.43
1:E:178:GLU:CA	1:E:178:GLU:OE1	2.63	0.43
1:E:286:GLU:HG3	1:E:287:ASN:N	2.34	0.43
1:E:356:VAL:CG2	6:U:109:ALA:HB2	2.49	0.43
1:E:445:ALA:C	1:E:449:GLN:OE1	2.50	0.43
1:E:644:ASN:HB2	1:E:925:VAL:CG1	2.47	0.43
1:F:160:ALA:CB	1:F:213:GLY:HA3	2.48	0.43
1:F:359:GLN:HE22	1:F:692:GLY:CA	2.30	0.43
1:F:539:ARG:NH1	1:F:539:ARG:CG	2.81	0.43
1:F:698:TYR:CD1	5:R:33:GLY:HA2	2.54	0.43
1:F:815:LYS:HA	1:F:815:LYS:HD3	1.71	0.43
1:F:878:ASN:O	1:F:879:PHE:HB2	2.18	0.43
1:F:882:MET:H	1:F:882:MET:HG3	1.50	0.43
1:G:130:PRO:HG3	1:G:312:LEU:HG	2.00	0.43
1:G:150:GLU:O	1:G:152:ASP:N	2.51	0.43
1:G:152:ASP:OD1	1:I:444:ASP:C	2.57	0.43
1:G:218:LYS:HG3	1:G:219:ASP:OD1	2.19	0.43
1:G:460:MET:HG3	1:H:460:MET:CE	2.46	0.43
1:G:474:TYR:CD2	1:H:407:LEU:HD23	2.54	0.43
1:G:868:ARG:HG2	1:G:868:ARG:NH1	2.32	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:23:TYR:CD1	1:H:23:TYR:C	2.93	0.43
1:H:159:VAL:HG11	1:I:840:GLN:HB2	1.93	0.43
1:H:252:LYS:HB2	1:H:252:LYS:HE3	1.85	0.43
1:H:358:LEU:CD2	1:H:947:ALA:CB	2.96	0.43
1:H:396:ARG:NH2	1:H:534:PRO:HG3	2.34	0.43
1:H:474:TYR:O	1:H:478:ALA:HB3	2.19	0.43
1:H:571:ASN:N	1:H:571:ASN:HD22	2.09	0.43
1:H:718:PHE:HB3	1:H:745:ILE:HD12	2.01	0.43
1:H:765:TRP:O	1:H:765:TRP:CD1	2.72	0.43
1:H:887:ASP:O	1:H:890:GLN:HB3	2.19	0.43
1:I:78:TYR:O	1:I:587:LYS:HB3	2.19	0.43
1:I:79:LEU:HD22	1:I:341:ASN:HD22	1.83	0.43
1:I:103:ILE:CG1	1:I:613:VAL:HG22	2.47	0.43
1:I:144:THR:HG22	1:I:144:THR:O	2.19	0.43
1:I:691:LEU:HD21	1:I:708:LEU:CD2	2.48	0.43
1:I:906:GLU:CD	5:S:24:TRP:NE1	2.73	0.43
1:I:928:VAL:O	1:I:928:VAL:HG12	2.18	0.43
1:J:198:GLN:NE2	1:K:840:GLN:CB	2.81	0.43
1:J:470:LYS:HE3	1:L:124:LEU:HD21	2.01	0.43
1:J:716:HIS:O	1:J:716:HIS:CG	2.71	0.43
1:K:358:LEU:CD1	1:K:942:ARG:NH1	2.61	0.43
1:K:620:PHE:CB	1:L:778:TYR:CD2	3.02	0.43
1:K:682:ARG:CD	1:K:907:VAL:HG11	2.45	0.43
1:K:773:HIS:CE1	1:K:872:ARG:NH2	2.76	0.43
1:K:796:ARG:HD3	1:K:796:ARG:O	2.19	0.43
1:K:869:VAL:CG2	1:K:870:MET:N	2.81	0.43
1:L:485:TYR:HB3	1:L:513:LEU:HD21	2.01	0.43
1:L:747:ARG:H	1:L:762:THR:CG2	2.32	0.43
1:L:861:GLN:O	1:L:861:GLN:HG3	2.19	0.43
2:N:181:ILE:HG22	2:N:181:ILE:O	2.18	0.43
4:M:144:PHE:CD1	4:M:144:PHE:O	2.72	0.43
4:M:332:MET:C	4:M:334:GLU:H	2.22	0.43
5:Q:97:ALA:H	5:S:94:SER:CB	2.32	0.43
5:Q:122:VAL:O	5:Q:122:VAL:CG1	2.67	0.43
5:R:108:LEU:CD1	5:R:111:LEU:HD23	2.49	0.43
1:A:9:GLN:HE21	1:A:10:TRP:HZ3	1.62	0.42
1:A:19:ASP:O	1:A:20:ALA:C	2.57	0.42
1:A:747:ARG:CZ	1:A:754:TYR:HB2	2.48	0.42
1:A:756:VAL:CG1	1:C:383:MET:CE	2.96	0.42
1:A:825:ASN:CA	1:C:122:ASN:HA	2.48	0.42
1:A:929:HIS:CD2	1:A:929:HIS:C	2.91	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:20:ALA:O	1:B:22:GLU:N	2.52	0.42
1:B:135:TRP:O	1:B:153:VAL:HG22	2.18	0.42
1:B:206:GLU:O	1:B:208:GLU:N	2.52	0.42
1:B:412:PHE:HB3	1:B:413:PRO:CD	2.46	0.42
1:C:58:THR:N	1:C:621:PRO:O	2.51	0.42
1:C:129:ALA:O	1:C:225:CYS:HB3	2.19	0.42
1:C:199:VAL:HG22	1:C:211:TYR:CE2	2.54	0.42
1:C:665:ILE:C	1:C:665:ILE:HD12	2.39	0.42
1:C:908:ASP:HB2	1:C:909:PRO:CD	2.47	0.42
1:D:10:TRP:CZ2	1:E:943:THR:HG21	2.41	0.42
1:D:24:LEU:HA	1:E:639:HIS:HB3	2.00	0.42
1:D:70:PRO:HG3	1:D:73:ARG:HH11	1.82	0.42
1:D:82:ALA:CB	1:D:613:VAL:HG21	2.49	0.42
1:D:157:PHE:CE1	1:F:419:THR:HG22	2.54	0.42
1:D:241:LYS:HD3	1:D:286:GLU:OE1	2.18	0.42
1:D:633:MET:O	1:D:639:HIS:HE1	2.02	0.42
1:D:676:ARG:O	1:D:875:PHE:HB2	2.19	0.42
1:D:794:PHE:CD1	1:D:794:PHE:O	2.72	0.42
1:E:155:LYS:HD3	1:E:283:LEU:HD13	2.01	0.42
1:E:674:ALA:O	1:E:675:PHE:C	2.57	0.42
1:E:929:HIS:NE2	6:U:159:ARG:NH2	2.67	0.42
1:E:952:THR:HG22	1:E:952:THR:OXT	2.19	0.42
1:F:311:ASN:C	1:F:313:VAL:N	2.73	0.42
1:F:537:HIS:C	1:F:539:ARG:N	2.71	0.42
1:F:579:TYR:CE1	1:F:936:ILE:HG22	2.54	0.42
1:G:286:GLU:CD	1:G:286:GLU:H	2.18	0.42
1:G:695:PHE:HB3	1:G:697:PRO:HD3	2.01	0.42
1:G:785:GLU:OE1	1:G:788:LYS:HE3	2.19	0.42
1:G:935:VAL:O	1:G:935:VAL:CG1	2.66	0.42
1:H:19:ASP:C	1:H:23:TYR:CD2	2.92	0.42
1:H:135:TRP:HB3	1:H:307:SER:O	2.19	0.42
1:H:352:LEU:HB3	6:V:110:GLY:HA2	2.01	0.42
1:H:398:ILE:HG21	1:H:477:VAL:HG11	2.01	0.42
1:H:478:ALA:HB2	1:H:514:VAL:CG1	2.49	0.42
1:I:63:ARG:HH11	1:I:63:ARG:HG3	1.84	0.42
1:I:78:TYR:HE1	1:I:79:LEU:HG	1.76	0.42
1:I:79:LEU:HD21	1:I:341:ASN:ND2	2.34	0.42
1:I:653:LEU:HD23	1:I:917:TYR:CD2	2.34	0.42
1:I:705:ILE:O	1:I:709:ASP:CB	2.66	0.42
1:I:737:LEU:N	1:I:737:LEU:CD2	2.82	0.42
1:I:809:ILE:CD1	5:S:41:VAL:HG11	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:122:ASN:HA	1:K:825:ASN:CB	2.49	0.42
1:J:278:LYS:NZ	1:L:428:ILE:CG2	2.66	0.42
1:J:396:ARG:NH2	1:J:865:LEU:HD21	2.34	0.42
1:J:438:SER:OG	1:K:278:LYS:CB	2.67	0.42
1:J:589:VAL:CG1	1:J:602:ARG:HA	2.49	0.42
1:J:768:VAL:HG13	1:J:879:PHE:HE2	1.82	0.42
1:J:853:GLN:HG3	1:L:111:PRO:HB3	2.00	0.42
1:K:65:THR:HA	1:K:618:THR:HA	2.01	0.42
1:K:153:VAL:HG11	1:K:309:GLU:OE2	2.20	0.42
1:K:300:LYS:C	1:K:301:PRO:O	2.57	0.42
1:L:148:GLN:O	1:L:150:GLU:N	2.52	0.42
1:L:397:ILE:O	1:L:399:GLU:HG3	2.19	0.42
1:L:493:LYS:H	1:L:493:LYS:HG3	1.64	0.42
1:L:498:THR:CB	1:L:503:TYR:CE2	3.02	0.42
1:L:760:ASN:ND2	1:L:760:ASN:C	2.70	0.42
1:L:772:SER:O	1:L:773:HIS:C	2.57	0.42
1:L:878:ASN:OD1	1:L:880:MET:CG	2.67	0.42
1:L:929:HIS:CD2	1:L:930:GLN:N	2.87	0.42
2:N:270:ASP:C	2:N:272:GLU:H	2.21	0.42
4:M:160:THR:HG22	4:M:160:THR:O	2.18	0.42
4:M:275:GLU:O	4:M:279:VAL:HG23	2.18	0.42
5:P:9:GLU:HA	5:Q:27:VAL:O	2.19	0.42
5:Q:18:THR:HB	5:Q:19:THR:H	1.58	0.42
5:R:27:VAL:C	5:R:28:ARG:CG	2.88	0.42
6:U:33:TRP:CE3	6:U:33:TRP:C	2.92	0.42
6:U:41:ILE:O	6:U:41:ILE:HG23	2.19	0.42
1:A:189:ALA:HB1	1:A:254:LEU:CD1	2.49	0.42
1:A:202:GLU:C	1:A:206:GLU:CD	2.76	0.42
1:A:309:GLU:O	1:C:205:GLN:NE2	2.52	0.42
1:A:325:GLY:O	1:A:593:LEU:HA	2.18	0.42
1:A:619:PHE:O	1:A:621:PRO:HD3	2.20	0.42
1:A:822:GLN:HB3	1:A:846:PHE:HD1	1.82	0.42
1:B:46:ARG:HD2	1:C:644:ASN:ND2	2.31	0.42
1:B:68:PHE:HB2	1:B:615:LEU:CD1	2.50	0.42
1:B:96:MET:CE	1:B:574:LEU:HD22	2.48	0.42
1:B:126:PRO:O	1:B:128:GLY:N	2.53	0.42
1:B:500:THR:HG23	1:B:503:TYR:HB3	2.01	0.42
1:C:34:ALA:O	7:2:24:GLU:HA	2.19	0.42
1:C:216:LEU:O	1:C:217:LYS:C	2.55	0.42
1:C:255:ASP:CG	1:C:286:GLU:HB2	2.39	0.42
1:C:552:ASN:O	1:C:552:ASN:CG	2.56	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:675:PHE:HB2	1:C:944:PRO:HG3	2.01	0.42
1:C:756:VAL:HG22	1:C:757:ALA:N	2.34	0.42
1:C:807:ASP:HB3	1:C:859:VAL:HB	2.00	0.42
1:D:49:THR:HB	1:E:884:ALA:CB	2.48	0.42
1:D:156:THR:HG22	1:F:451:GLN:CD	2.40	0.42
1:D:298:VAL:HG21	1:D:317:MET:HB3	2.01	0.42
1:D:361:ARG:O	1:D:361:ARG:HD2	2.18	0.42
1:D:451:GLN:HB2	1:E:156:THR:O	2.18	0.42
1:D:536:ASN:HB3	1:D:596:SER:O	2.19	0.42
1:E:90:ASP:HB2	1:J:350:SER:HB2	2.01	0.42
1:E:131:ASN:HD22	1:E:225:CYS:HB2	1.77	0.42
1:E:255:ASP:C	1:E:256:ILE:HG13	2.38	0.42
1:E:421:SER:HG	1:E:423:TYR:HE1	1.67	0.42
1:E:445:ALA:N	1:E:449:GLN:OE1	2.53	0.42
1:E:561:GLN:NE2	1:F:756:VAL:C	2.72	0.42
1:E:747:ARG:O	1:E:747:ARG:CG	2.66	0.42
1:F:68:PHE:CD1	1:F:68:PHE:N	2.78	0.42
1:F:217:LYS:HZ3	1:F:285:THR:HG21	1.80	0.42
1:F:243:LYS:O	1:F:244:PRO:C	2.55	0.42
1:F:400:ASN:CB	1:F:469:TRP:CZ2	3.02	0.42
1:F:442:LYS:HG2	1:F:443:ASP:N	2.33	0.42
1:F:560:ILE:HD12	1:F:560:ILE:C	2.34	0.42
1:F:689:PRO:N	1:F:699:PHE:CE1	2.87	0.42
1:F:871:TRP:CE3	1:F:871:TRP:HA	2.55	0.42
1:F:912:GLU:CG	1:F:913:PRO:HD2	2.49	0.42
1:G:78:TYR:CD2	1:G:695:PHE:CE1	3.07	0.42
1:G:162:THR:HG1	1:G:193:PHE:HD1	1.54	0.42
1:G:289:ASN:O	1:G:291:GLU:HG3	2.20	0.42
1:G:425:GLY:C	1:G:441:GLU:HG3	2.39	0.42
1:G:695:PHE:HZ	5:R:76:ARG:CD	2.26	0.42
1:G:784:PRO:HD2	1:G:795:PHE:CD2	2.54	0.42
1:G:942:ARG:O	1:G:943:THR:C	2.57	0.42
1:H:348:GLN:HB3	1:H:579:TYR:HA	2.01	0.42
1:H:416:GLY:HA2	1:I:126:PRO:HG2	2.01	0.42
1:H:442:LYS:CD	1:I:150:GLU:OE1	2.67	0.42
1:H:589:VAL:HG11	1:H:606:ALA:HB1	2.01	0.42
1:H:842:TYR:CD2	1:H:843:PRO:HD2	2.54	0.42
1:I:38:TYR:OH	7:6:24:GLU:HG2	2.17	0.42
1:I:135:TRP:CD1	1:I:135:TRP:N	2.87	0.42
1:I:192:THR:C	1:I:193:PHE:CG	2.93	0.42
1:I:269:PRO:CB	1:I:273:SER:O	2.64	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:362:ASN:O	1:I:362:ASN:CG	2.56	0.42
1:I:372:ASP:HB2	1:I:377:ARG:HG2	2.01	0.42
1:I:481:LEU:HB3	1:I:485:TYR:CD2	2.54	0.42
1:I:705:ILE:CD1	1:I:708:LEU:HG	2.49	0.42
1:I:737:LEU:HB2	1:I:740:PRO:HA	2.00	0.42
1:J:152:ASP:C	1:L:445:ALA:H	2.21	0.42
1:J:678:TRP:HZ2	1:J:901:LEU:CD2	2.28	0.42
1:J:685:THR:HG22	1:J:913:PRO:O	2.19	0.42
1:J:730:SER:O	1:J:732:PRO:CD	2.67	0.42
1:J:774:TYR:HB3	1:J:788:LYS:CD	2.49	0.42
1:J:827:GLY:HA2	1:J:839:GLY:C	2.40	0.42
1:K:214:ARG:HG2	1:K:214:ARG:NH1	2.34	0.42
1:K:577:GLY:HA3	1:K:934:GLY:HA2	2.01	0.42
1:L:62:GLN:O	1:L:62:GLN:CG	2.66	0.42
1:L:96:MET:O	1:L:99:THR:OG1	2.34	0.42
1:L:161:ALA:HB1	1:L:198:GLN:CD	2.32	0.42
1:L:398:ILE:HG23	1:L:526:LEU:H	1.83	0.42
1:L:423:TYR:O	1:L:450:ASN:CB	2.67	0.42
1:L:564:GLN:HA	1:L:564:GLN:NE2	2.35	0.42
1:L:634:LEU:HD12	1:L:634:LEU:HA	1.75	0.42
1:L:670:ARG:HH22	1:L:945:PHE:CB	2.17	0.42
1:L:924:ASP:OD2	1:L:942:ARG:CD	2.68	0.42
2:N:343:ILE:HB	2:N:346:THR:OG1	2.19	0.42
2:N:393:MET:HE3	2:N:479:LEU:HD13	1.96	0.42
2:N:496:ARG:HD2	2:N:496:ARG:HA	1.44	0.42
5:S:17:LEU:C	5:S:19:THR:H	2.21	0.42
6:V:70:ASN:C	6:V:71:PRO:O	2.56	0.42
1:A:16:ALA:HA	1:A:48:PRO:HB3	2.00	0.42
1:A:514:VAL:O	1:A:514:VAL:HG13	2.18	0.42
1:A:537:HIS:C	1:A:539:ARG:N	2.72	0.42
1:A:811:TYR:CD2	1:A:814:TYR:HB2	2.54	0.42
1:B:29:VAL:CG2	1:B:30:GLN:N	2.82	0.42
1:B:135:TRP:CE3	1:B:153:VAL:HG21	2.54	0.42
1:B:237:GLY:HA3	1:C:821:PHE:HB3	2.02	0.42
1:B:298:VAL:CG2	1:B:317:MET:HG3	2.45	0.42
1:B:333:LEU:O	1:B:333:LEU:HG	2.19	0.42
1:B:495:PRO:HG3	1:B:502:GLU:HG3	2.00	0.42
1:C:631:GLU:C	1:C:633:MET:N	2.70	0.42
1:C:670:ARG:HB2	1:C:670:ARG:HH11	1.83	0.42
1:C:819:LEU:C	1:C:821:PHE:H	2.23	0.42
1:D:136:GLU:HA	1:D:151:LYS:HA	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:198:GLN:HE22	1:F:456:ASN:CG	2.15	0.42
1:D:233:THR:HG23	1:D:234:ASN:N	2.33	0.42
1:D:330:PHE:CB	1:D:562:VAL:HG12	2.49	0.42
1:D:405:ASP:HB3	1:D:465:GLN:HB2	2.01	0.42
1:D:882:MET:H	1:D:882:MET:HG3	1.68	0.42
1:E:192:THR:HG23	1:E:193:PHE:CE1	2.53	0.42
1:E:223:LYS:CG	1:E:292:THR:HG21	2.49	0.42
1:E:362:ASN:HB2	1:E:651:ASN:ND2	2.35	0.42
1:E:602:ARG:HE	1:E:602:ARG:HB2	1.53	0.42
1:F:136:GLU:OE1	1:F:150:GLU:C	2.57	0.42
1:F:217:LYS:CA	1:F:285:THR:CG2	2.93	0.42
1:F:241:LYS:HD3	1:F:255:ASP:O	2.19	0.42
1:F:300:LYS:HG2	1:F:301:PRO:CD	2.37	0.42
1:F:344:VAL:HG13	1:F:582:GLU:HG3	2.01	0.42
1:F:387:ALA:HB3	1:F:546:ARG:HH21	1.85	0.42
1:F:424:GLN:HB2	1:F:446:ILE:HA	2.01	0.42
1:F:641:GLN:HB2	1:F:643:PHE:CZ	2.54	0.42
1:F:651:ASN:C	1:F:652:MET:HG2	2.39	0.42
1:F:673:ALA:O	1:F:674:ALA:HB3	2.19	0.42
1:F:683:LEU:H	1:F:683:LEU:CD2	2.07	0.42
1:F:875:PHE:CE2	1:F:889:GLY:HA2	2.51	0.42
1:G:31:PHE:C	1:G:33:ARG:H	2.22	0.42
1:G:151:LYS:O	1:G:154:THR:CA	2.67	0.42
1:G:216:LEU:HD13	1:G:288:VAL:CG1	2.49	0.42
1:G:501:TYR:O	1:G:503:TYR:N	2.52	0.42
1:G:524:TRP:CD2	1:G:803:ARG:HG3	2.54	0.42
1:G:537:HIS:C	1:G:539:ARG:N	2.72	0.42
1:G:794:PHE:HA	1:G:869:VAL:HG21	2.01	0.42
1:H:137:THR:HG21	1:H:152:ASP:OD1	2.01	0.42
1:H:232:PRO:O	1:I:815:LYS:CG	2.67	0.42
1:H:277:TYR:HE1	1:H:278:LYS:CB	2.26	0.42
1:H:353:ASN:HD21	1:H:355:VAL:H	1.54	0.42
1:H:653:LEU:CD2	1:H:915:LEU:HD13	2.49	0.42
1:H:826:SER:C	1:H:828:PHE:H	2.21	0.42
1:I:74:GLU:O	1:I:74:GLU:HG3	2.17	0.42
1:I:154:THR:HG22	1:I:155:LYS:HE2	1.99	0.42
1:I:241:LYS:HG3	1:I:254:LEU:CD2	2.36	0.42
1:I:479:LEU:CD2	1:I:509:VAL:HG22	2.50	0.42
1:I:674:ALA:O	1:I:675:PHE:O	2.38	0.42
1:I:761:MET:CG	1:I:766:PHE:HB2	2.49	0.42
1:I:852:GLY:O	1:I:854:THR:N	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:864:PHE:HD1	1:I:865:LEU:N	2.17	0.42
1:J:173:LEU:HB2	1:J:185:LYS:HZ3	1.84	0.42
1:J:403:VAL:HG23	1:J:405:ASP:CB	2.49	0.42
1:J:523:ARG:HB3	1:L:548:MET:CE	2.49	0.42
1:J:603:VAL:HA	5:P:40:PRO:HB3	2.01	0.42
1:J:681:THR:HG21	1:J:712:PHE:CD1	2.55	0.42
1:J:685:THR:HB	1:J:914:THR:CA	2.48	0.42
1:J:742:GLU:HG2	5:Q:24:TRP:CZ3	2.53	0.42
1:K:61:SER:HA	1:L:734:ASN:ND2	2.33	0.42
1:K:328:ASP:OD2	1:K:328:ASP:C	2.56	0.42
1:K:714:LEU:O	1:K:716:HIS:N	2.52	0.42
1:K:745:ILE:HG12	1:K:765:TRP:CD2	2.54	0.42
1:L:52:PRO:HB3	7:8:24:GLU:O	2.20	0.42
1:L:61:SER:O	1:L:61:SER:OG	2.31	0.42
1:L:88:VAL:HG22	1:L:88:VAL:O	2.19	0.42
1:L:173:LEU:CD1	1:L:185:LYS:HZ3	2.25	0.42
1:L:267:SER:N	1:L:268:PRO:HD3	2.33	0.42
1:L:362:ASN:C	1:L:364:GLU:H	2.22	0.42
1:L:588:ASP:OD2	1:L:589:VAL:N	2.52	0.42
1:L:599:ASN:OD1	1:L:599:ASN:C	2.57	0.42
1:L:701:TYR:OH	1:L:704:SER:N	2.52	0.42
2:N:120:ASN:ND2	2:N:168:PHE:HB3	2.32	0.42
2:N:251:LEU:HB2	2:N:380:CYS:SG	2.60	0.42
4:M:187:PHE:HB3	4:M:197:VAL:CG1	2.39	0.42
5:Q:34:SER:C	5:Q:43:PRO:CD	2.86	0.42
5:R:42:LEU:C	5:R:43:PRO:O	2.56	0.42
5:S:73:THR:O	5:S:77:LEU:HD12	2.19	0.42
6:U:72:ARG:HD2	6:U:72:ARG:HA	1.69	0.42
1:A:90:ASP:C	1:A:92:ARG:H	2.23	0.42
1:A:288:VAL:CG2	1:A:289:ASN:N	2.82	0.42
1:A:397:ILE:HG21	1:A:523:ARG:HH21	1.84	0.42
1:A:427:LYS:HG3	1:A:441:GLU:HB3	2.01	0.42
1:A:573:LEU:HB3	1:A:641:GLN:NE2	2.34	0.42
1:A:778:TYR:O	1:A:779:GLN:CG	2.67	0.42
1:B:327:ARG:NH2	1:B:705:ILE:CG1	2.81	0.42
1:B:424:GLN:NE2	1:C:263:VAL:O	2.33	0.42
1:B:667:ILE:HD13	1:B:672:TRP:HH2	1.83	0.42
1:B:827:GLY:HA2	1:B:839:GLY:HA3	2.01	0.42
1:C:83:ARG:HH12	1:J:69:VAL:HB	1.78	0.42
1:C:91:ASN:O	1:C:627:ALA:CB	2.63	0.42
1:C:328:ASP:OD2	1:C:386:SER:C	2.58	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:681:THR:O	1:C:917:TYR:HB3	2.19	0.42
1:C:725:PHE:CE1	1:C:901:LEU:CD1	2.90	0.42
1:C:726:ASP:N	1:C:900:ALA:O	2.47	0.42
1:D:150:GLU:CB	1:F:443:ASP:HB3	2.46	0.42
1:D:359:GLN:CA	1:D:359:GLN:HE21	2.32	0.42
1:D:377:ARG:NE	1:D:388:VAL:CG1	2.82	0.42
1:D:517:TYR:CD1	1:D:517:TYR:C	2.93	0.42
1:D:560:ILE:HG22	1:D:561:GLN:H	1.80	0.42
1:D:816:ALA:O	1:F:235:GLU:CB	2.46	0.42
1:E:77:THR:HB	5:P:76:ARG:HE	1.84	0.42
1:E:94:LEU:HB2	1:E:619:PHE:HD2	1.83	0.42
1:E:107:LEU:C	1:E:107:LEU:CD1	2.82	0.42
1:E:454:LYS:H	1:E:454:LYS:HG3	1.49	0.42
1:E:582:GLU:O	1:E:582:GLU:HG3	2.19	0.42
1:E:670:ARG:HB2	1:E:670:ARG:CZ	2.49	0.42
1:E:718:PHE:CE1	1:E:907:VAL:HG12	2.55	0.42
1:E:937:GLU:HA	6:U:110:GLY:HA2	2.02	0.42
1:F:186:ASP:O	1:F:188:TYR:N	2.52	0.42
1:F:192:THR:C	1:F:193:PHE:HD1	2.13	0.42
1:F:296:HIS:CE1	1:F:317:MET:CG	3.02	0.42
1:F:337:ASN:HA	1:F:357:ASP:OD2	2.20	0.42
1:F:497:ASN:O	1:F:500:THR:CG2	2.63	0.42
1:F:595:SER:O	1:F:703:GLY:HA2	2.20	0.42
1:F:675:PHE:HB2	1:F:944:PRO:HG2	2.01	0.42
1:F:680:PHE:CD1	1:F:871:TRP:HB2	2.52	0.42
1:F:886:THR:O	1:F:890:GLN:HG2	2.19	0.42
1:G:102:ASP:CG	1:G:616:TYR:CE1	2.82	0.42
1:G:116:TYR:N	1:G:116:TYR:CD1	2.83	0.42
1:G:203:ASN:OD1	1:G:204:TRP:CD2	2.72	0.42
1:G:663:VAL:HG13	1:G:905:PHE:O	2.17	0.42
1:H:115:PRO:HA	1:H:322:ASN:O	2.19	0.42
1:H:517:TYR:HA	1:H:520:ILE:CG2	2.49	0.42
1:H:801:MET:HE1	1:H:865:LEU:HB3	1.97	0.42
1:H:853:GLN:NE2	1:H:853:GLN:N	2.68	0.42
1:I:55:ASP:HB3	1:I:626:THR:HG22	1.88	0.42
1:I:121:TYR:CD1	1:I:121:TYR:N	2.87	0.42
1:I:264:PRO:O	1:I:265:GLY:O	2.37	0.42
1:I:417:THR:CG2	1:I:457:VAL:HA	2.48	0.42
1:I:705:ILE:C	1:I:707:TYR:H	2.22	0.42
1:J:44:LYS:HB3	1:K:641:GLN:HB3	2.02	0.42
1:J:534:PRO:HD2	1:J:713:TYR:HB3	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:937:GLU:HA	1:J:937:GLU:OE1	2.19	0.42
1:J:951:THR:HG21	8:X:6:UNK:O	2.18	0.42
1:K:250:GLN:HA	1:K:251:PRO:HD2	1.85	0.42
1:K:324:ILE:HA	1:K:595:SER:HB3	2.02	0.42
1:K:412:PHE:HB3	1:K:413:PRO:HD2	2.01	0.42
1:K:425:GLY:HA2	1:L:260:TYR:O	2.19	0.42
1:K:515:ASP:C	1:K:517:TYR:H	2.22	0.42
1:K:573:LEU:O	1:K:641:GLN:NE2	2.40	0.42
1:K:875:PHE:O	1:K:875:PHE:CG	2.73	0.42
1:K:927:ARG:O	1:K:938:ALA:HA	2.19	0.42
1:L:243:LYS:O	1:L:244:PRO:C	2.55	0.42
1:L:320:ARG:NH1	1:L:504:MET:O	2.50	0.42
1:L:490:ALA:O	1:L:491:ASN:HB2	2.19	0.42
1:L:737:LEU:HD11	1:L:743:PHE:CE2	2.55	0.42
1:L:745:ILE:HG23	1:L:746:LYS:N	2.33	0.42
2:N:196:GLU:HB3	2:N:447:PHE:HE2	1.83	0.42
4:M:79:LEU:HG	4:M:84:ALA:HB3	2.01	0.42
4:M:98:LEU:HD23	4:M:98:LEU:HA	1.78	0.42
4:M:188:GLN:NE2	4:M:189:THR:O	2.53	0.42
6:U:14:GLN:HG3	6:U:14:GLN:O	2.19	0.42
6:U:74:TRP:HB3	6:U:75:PRO:HD2	1.99	0.42
6:U:205:PRO:HA	6:U:208:TYR:CE2	2.55	0.42
6:V:204:SER:C	6:V:206:GLY:H	2.21	0.42
1:A:160:ALA:HB1	1:A:211:TYR:HB3	2.01	0.42
1:A:327:ARG:NH2	1:A:705:ILE:HG13	2.34	0.42
1:A:406:GLU:HG3	1:C:474:TYR:HE2	1.83	0.42
1:A:554:ARG:HG2	1:A:554:ARG:NH1	2.35	0.42
1:A:582:GLU:HG2	1:A:583:TRP:N	2.34	0.42
1:A:641:GLN:HB3	1:C:44:LYS:HB3	2.01	0.42
1:A:731:TRP:N	1:A:732:PRO:CD	2.81	0.42
1:A:737:LEU:HD21	1:A:743:PHE:CE2	2.54	0.42
1:B:3:THR:O	1:B:4:PRO:C	2.56	0.42
1:B:33:ARG:CG	1:B:33:ARG:HH11	2.33	0.42
1:B:241:LYS:HD3	1:B:256:ILE:CG1	2.33	0.42
1:B:390:SER:HA	1:B:535:PHE:CE1	2.55	0.42
1:C:250:GLN:HG3	1:C:251:PRO:N	2.34	0.42
1:C:666:SER:CB	1:C:902:ASP:HB2	2.49	0.42
1:C:713:TYR:CD2	1:C:713:TYR:N	2.88	0.42
1:C:846:PHE:HB3	1:C:847:PRO:CD	2.49	0.42
1:D:214:ARG:NH2	1:D:241:LYS:HE2	2.34	0.42
1:D:461:GLU:OE2	1:D:461:GLU:CA	2.66	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:24:LEU:HD23	1:F:639:HIS:ND1	2.34	0.42
1:E:67:ARG:HB2	1:E:616:TYR:HE2	1.83	0.42
1:E:136:GLU:CA	1:E:151:LYS:HA	2.45	0.42
1:E:203:ASN:OD1	1:E:204:TRP:CE3	2.72	0.42
1:E:239:GLN:NE2	1:E:240:ALA:H	2.10	0.42
1:F:261:PHE:O	1:F:280:ASP:HA	2.19	0.42
1:F:275:GLU:HB3	1:F:276:GLU:H	1.59	0.42
1:F:392:ASP:OD1	1:F:393:PRO:CD	2.63	0.42
1:F:392:ASP:OD1	1:F:394:ASP:N	2.46	0.42
1:F:451:GLN:C	1:F:452:ILE:HG13	2.36	0.42
1:F:515:ASP:OD2	1:F:517:TYR:CE2	2.73	0.42
1:F:566:PHE:HE1	1:F:568:ALA:HB3	1.85	0.42
1:F:684:LYS:HE2	1:F:912:GLU:OE1	2.17	0.42
1:F:685:THR:CG2	1:F:913:PRO:O	2.68	0.42
1:G:161:ALA:HB2	1:G:198:GLN:HE21	1.54	0.42
1:G:204:TRP:CE3	1:H:313:VAL:CG2	2.74	0.42
1:G:650:ALA:CB	1:G:942:ARG:NH2	2.82	0.42
1:G:721:VAL:HG11	1:G:873:ILE:HD11	2.01	0.42
1:G:724:MET:HE3	1:G:728:SER:O	2.15	0.42
1:H:239:GLN:OE1	1:I:845:ASN:HB3	2.18	0.42
1:H:662:ASN:O	1:H:664:PRO:HD3	2.19	0.42
1:H:756:VAL:O	1:H:757:ALA:HB3	2.19	0.42
1:H:918:LEU:CG	1:H:919:LEU:N	2.83	0.42
1:I:16:ALA:HA	1:I:48:PRO:CB	2.49	0.42
1:I:49:THR:HG23	7:5:21:THR:HB	2.02	0.42
1:I:132:PRO:HB3	1:I:158:GLY:HA2	2.00	0.42
1:I:134:GLN:NE2	1:I:217:LYS:HG3	2.34	0.42
1:I:413:PRO:CD	1:I:458:TYR:O	2.66	0.42
1:I:510:ALA:HB1	1:I:511:PRO:HD2	2.01	0.42
1:I:864:PHE:CD1	1:I:864:PHE:C	2.93	0.42
1:J:114:LYS:HB2	1:K:851:ILE:HD12	2.01	0.42
1:J:150:GLU:HB3	1:L:443:ASP:HB3	2.00	0.42
1:J:190:ASP:OD2	1:J:236:LYS:HD2	2.20	0.42
1:J:308:SER:O	1:J:311:ASN:HB2	2.19	0.42
1:J:454:LYS:HG2	1:K:211:TYR:CE1	2.55	0.42
1:J:463:ASN:HD22	1:J:466:ALA:CB	2.32	0.42
1:J:664:PRO:HD2	5:P:12:LEU:CG	2.50	0.42
1:K:186:ASP:OD2	1:K:193:PHE:CZ	2.72	0.42
1:K:241:LYS:HE2	1:K:286:GLU:OE2	1.95	0.42
1:K:398:ILE:CD1	1:K:477:VAL:HG11	2.48	0.42
1:K:529:MET:O	1:K:529:MET:CG	2.64	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:917:TYR:CG	1:K:917:TYR:O	2.72	0.42
1:K:952:THR:HG22	1:K:952:THR:OXT	2.18	0.42
1:L:307:SER:O	1:L:308:SER:HB2	2.20	0.42
1:L:464:LEU:O	1:L:468:LEU:CB	2.66	0.42
1:L:474:TYR:CD2	1:L:474:TYR:O	2.72	0.42
1:L:564:GLN:HE21	1:L:564:GLN:CA	2.32	0.42
1:L:683:LEU:C	1:L:684:LYS:O	2.56	0.42
1:L:921:GLU:O	1:L:922:VAL:CG1	2.67	0.42
2:N:106:TRP:O	2:N:479:LEU:HB3	2.19	0.42
2:N:226:TYR:HE2	2:N:429:VAL:HG13	1.83	0.42
4:M:227:THR:C	4:M:229:ASN:N	2.73	0.42
4:M:228:PRO:HB3	4:M:231:ARG:NH2	2.35	0.42
4:M:229:ASN:HD22	4:M:229:ASN:C	2.20	0.42
4:M:272:THR:O	4:M:276:ILE:HG13	2.20	0.42
5:Q:4:THR:HG22	5:Q:13:PHE:CE2	2.28	0.42
5:Q:21:LEU:HD11	5:Q:27:VAL:HG11	2.00	0.42
5:S:29:GLN:HE21	5:S:48:THR:HG21	1.84	0.42
6:U:79:VAL:O	6:U:80:TYR:C	2.55	0.42
6:V:89:VAL:HG12	6:V:90:LEU:N	2.35	0.42
1:A:37:THR:HB	1:A:38:TYR:CD2	2.54	0.42
1:A:338:SER:C	1:A:340:GLY:N	2.73	0.42
1:A:774:TYR:CE1	1:A:784:PRO:HB3	2.55	0.42
1:B:102:ASP:O	1:B:613:VAL:HA	2.19	0.42
1:B:625:ASN:OD1	1:B:625:ASN:C	2.58	0.42
1:B:731:TRP:HB3	1:B:732:PRO:HD2	1.99	0.42
1:B:738:LEU:CG	1:B:754:TYR:HE2	2.31	0.42
1:C:76:THR:N	1:C:79:LEU:O	2.51	0.42
1:C:137:THR:CG2	1:C:152:ASP:O	2.63	0.42
1:C:188:TYR:O	1:C:188:TYR:HD1	1.97	0.42
1:C:544:ARG:O	1:C:547:SER:HB3	2.18	0.42
1:C:683:LEU:HD11	1:C:707:TYR:HA	2.01	0.42
1:D:7:MET:HB3	1:D:8:PRO:CD	2.48	0.42
1:D:267:SER:N	1:D:268:PRO:CD	2.83	0.42
1:D:427:LYS:HZ2	1:D:441:GLU:CD	2.20	0.42
1:E:25:SER:HB3	1:F:639:HIS:HE1	1.76	0.42
1:E:104:ARG:NH1	1:F:753:GLY:H	2.18	0.42
1:E:336:TYR:CZ	1:E:565:LYS:HG3	2.54	0.42
1:F:162:THR:HB	1:F:193:PHE:HE2	1.84	0.42
1:F:241:LYS:HD2	1:F:256:ILE:HD11	1.78	0.42
1:F:294:ASP:HB2	1:F:319:ASN:ND2	2.33	0.42
1:F:567:PHE:CD1	1:F:645:ASP:N	2.87	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:633:MET:O	1:F:636:ASN:CB	2.68	0.42
1:F:635:ARG:NH2	1:F:933:ARG:N	2.67	0.42
1:F:649:ALA:HB3	1:F:919:LEU:HD21	1.98	0.42
1:F:666:SER:O	1:F:667:ILE:HG23	2.19	0.42
1:F:764:ASP:O	1:F:767:LEU:N	2.50	0.42
1:F:851:ILE:HG13	1:F:852:GLY:N	2.35	0.42
1:G:135:TRP:CE3	1:G:136:GLU:O	2.73	0.42
1:G:223:LYS:HE2	1:G:292:THR:HG23	2.01	0.42
1:G:224:PRO:C	1:G:226:TYR:N	2.71	0.42
1:G:527:ASP:CG	1:G:863:LYS:NZ	2.70	0.42
1:G:759:CYS:O	1:G:761:MET:N	2.46	0.42
1:H:438:SER:O	1:H:438:SER:OG	2.37	0.42
1:H:443:ASP:OD1	1:I:151:LYS:N	2.50	0.42
1:H:575:LEU:H	1:H:930:GLN:HE22	1.68	0.42
1:H:782:HIS:ND1	1:H:782:HIS:O	2.53	0.42
1:I:3:THR:O	1:I:5:SER:N	2.53	0.42
1:I:7:MET:O	1:I:9:GLN:N	2.52	0.42
1:I:170:GLN:NE2	1:I:185:LYS:CG	2.69	0.42
1:I:191:LYS:O	1:I:193:PHE:N	2.45	0.42
1:I:217:LYS:HB2	1:I:286:GLU:CA	2.49	0.42
1:I:261:PHE:O	1:I:279:ALA:O	2.37	0.42
1:I:480:TYR:CZ	1:I:537:HIS:HD2	2.37	0.42
1:I:738:LEU:HB2	1:I:764:ASP:HB3	2.01	0.42
1:J:26:PRO:CA	1:J:29:VAL:HG12	2.48	0.42
1:J:41:LEU:HD22	1:K:630:LEU:HD11	2.02	0.42
1:J:64:LEU:HD11	1:J:621:PRO:CD	2.49	0.42
1:J:348:GLN:HG3	1:J:349:ALA:N	2.35	0.42
1:J:409:ASN:ND2	1:J:464:LEU:HB2	2.34	0.42
1:J:481:LEU:HD23	1:J:529:MET:HG2	2.01	0.42
1:J:714:LEU:HD21	1:J:910:MET:HE1	2.01	0.42
1:J:764:ASP:C	1:J:766:PHE:H	2.23	0.42
1:J:809:ILE:HG21	5:Q:41:VAL:CG1	2.50	0.42
1:K:80:TYR:O	1:K:584:ASN:CB	2.68	0.42
1:K:676:ARG:HB2	1:K:921:GLU:HB3	2.00	0.42
1:K:682:ARG:NH2	1:K:910:MET:HB3	2.34	0.42
1:L:261:PHE:HE1	1:L:283:LEU:HD12	1.84	0.42
1:L:308:SER:O	1:L:310:ILE:N	2.53	0.42
1:L:352:LEU:HD23	1:L:937:GLU:CB	2.50	0.42
1:L:457:VAL:O	1:L:458:TYR:C	2.56	0.42
2:N:82:VAL:O	2:N:84:GLN:HG2	2.20	0.42
2:N:492:THR:OG1	2:N:496:ARG:HD2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:141:LEU:O	4:M:145:LEU:HB2	2.20	0.42
4:M:231:ARG:CD	4:M:259:TYR:OH	2.66	0.42
4:M:238:ALA:HB3	4:M:239:PRO:CD	2.49	0.42
5:P:2:ASN:HB3	5:P:6:GLY:CA	2.48	0.42
5:P:5:GLY:O	5:P:7:ALA:N	2.52	0.42
5:P:9:GLU:CD	5:P:13:PHE:HB2	2.37	0.42
5:P:114:GLN:O	5:P:118:LEU:CB	2.67	0.42
6:U:3:LYS:HD3	6:U:3:LYS:N	2.21	0.42
6:V:7:THR:HG22	6:V:25:GLN:HB3	2.02	0.42
1:A:35:THR:O	1:A:36:ASP:C	2.58	0.42
1:A:50:VAL:HG22	1:B:885:LEU:HD12	2.01	0.42
1:A:79:LEU:HD12	1:A:80:TYR:N	2.34	0.42
1:A:329:ASN:HD22	1:A:367:TYR:HE2	1.68	0.42
1:A:377:ARG:CD	1:A:388:VAL:HG11	2.49	0.42
1:A:412:PHE:CE2	1:A:459:ALA:CB	3.02	0.42
1:A:761:MET:HG3	1:A:798:PHE:CE1	2.53	0.42
1:B:88:VAL:CG1	1:B:576:PRO:HA	2.48	0.42
1:B:110:GLY:HA2	1:B:554:ARG:HE	1.84	0.42
1:B:167:ILE:HG22	1:B:168:THR:N	2.35	0.42
1:B:174:LEU:HD11	1:B:186:ASP:OD2	2.20	0.42
1:C:13:MET:O	1:C:14:HIS:HB2	2.20	0.42
1:C:486:LYS:CG	1:C:509:VAL:HG12	2.39	0.42
1:C:530:ASP:HB2	1:C:863:LYS:HZ1	1.85	0.42
1:C:623:ALA:O	1:C:626:THR:HG23	2.20	0.42
1:C:631:GLU:O	1:C:632:ALA:CB	2.66	0.42
1:C:725:PHE:C	1:C:726:ASP:O	2.57	0.42
1:C:737:LEU:C	1:C:739:THR:N	2.70	0.42
1:D:31:PHE:CE2	1:D:35:THR:HG21	2.55	0.42
1:D:135:TRP:HB3	1:D:307:SER:HB3	2.02	0.42
1:D:208:GLU:O	1:D:211:TYR:CE1	2.73	0.42
1:D:585:PHE:N	1:D:585:PHE:CD1	2.88	0.42
1:D:707:TYR:HE1	1:D:917:TYR:HE1	1.67	0.42
1:D:924:ASP:HB3	1:D:942:ARG:HD3	2.00	0.42
1:E:572:LEU:HD13	1:E:574:LEU:HB3	1.98	0.42
1:E:680:PHE:HB3	1:E:918:LEU:CD1	2.49	0.42
1:E:738:LEU:HD22	1:E:754:TYR:HE2	1.84	0.42
1:E:757:ALA:CB	1:E:798:PHE:CZ	3.03	0.42
1:F:308:SER:O	1:F:311:ASN:HB2	2.20	0.42
1:F:398:ILE:O	1:F:399:GLU:O	2.36	0.42
1:F:670:ARG:NH1	1:H:726:ASP:HB2	2.35	0.42
1:G:19:ASP:O	1:G:23:TYR:HD2	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:84:PHE:CD1	1:G:84:PHE:N	2.87	0.42
1:G:113:PHE:HB2	1:G:324:ILE:CD1	2.50	0.42
1:G:218:LYS:HG3	1:G:219:ASP:N	2.35	0.42
1:G:244:PRO:O	1:G:246:ASN:HB2	2.20	0.42
1:G:309:GLU:HA	1:G:309:GLU:OE2	2.20	0.42
1:G:428:ILE:C	1:G:429:THR:O	2.58	0.42
1:H:109:ARG:NH1	1:H:109:ARG:CG	2.81	0.42
1:H:330:PHE:CZ	1:H:560:ILE:HB	2.55	0.42
1:H:414:LEU:HD23	1:H:414:LEU:HA	1.81	0.42
1:H:787:TYR:CD1	1:H:788:LYS:N	2.87	0.42
1:H:860:THR:O	5:R:56:ASN:HA	2.20	0.42
1:H:885:LEU:CG	1:H:890:GLN:HE21	2.26	0.42
1:I:231:ARG:O	1:I:240:ALA:HB2	2.20	0.42
1:I:246:ASN:HD22	1:I:251:PRO:HA	1.83	0.42
1:I:296:HIS:CE1	1:I:317:MET:HG3	2.55	0.42
1:I:333:LEU:HA	1:I:592:ILE:HG22	2.00	0.42
1:I:723:ILE:HG22	1:I:724:MET:N	2.35	0.42
1:I:731:TRP:CE3	1:I:732:PRO:HA	2.55	0.42
1:I:758:GLN:HB3	1:I:862:LYS:HZ1	1.83	0.42
1:I:936:ILE:HG12	1:I:937:GLU:N	2.35	0.42
1:J:20:ALA:HB3	1:J:47:ASN:ND2	2.26	0.42
1:J:297:VAL:HA	1:J:316:SER:CB	2.46	0.42
1:J:524:TRP:CD1	1:J:525:SER:O	2.72	0.42
1:J:924:ASP:OD2	1:J:942:ARG:CD	2.66	0.42
1:K:490:ALA:O	1:K:491:ASN:CB	2.67	0.42
1:K:658:ALA:HB2	1:K:913:PRO:HG3	1.97	0.42
1:K:806:VAL:HA	1:K:858:SER:HB2	2.01	0.42
1:K:929:HIS:HB3	6:U:40:MET:CE	2.48	0.42
1:L:86:LEU:HD13	1:L:86:LEU:C	2.40	0.42
1:L:193:PHE:CE1	1:L:214:ARG:HG3	2.53	0.42
1:L:240:ALA:O	1:L:288:VAL:HG12	2.20	0.42
1:L:808:GLU:HB3	1:L:814:TYR:CE2	2.54	0.42
1:L:942:ARG:HH11	1:L:942:ARG:CB	2.33	0.42
2:N:282:VAL:N	2:N:283:PRO:CD	2.83	0.42
2:N:344:GLN:OE1	2:N:344:GLN:HA	2.18	0.42
6:U:62:THR:HG22	6:U:190:GLU:HG3	2.02	0.42
1:A:84:PHE:HE1	1:A:101:PHE:CE2	2.38	0.42
1:A:93:VAL:HG21	1:A:573:LEU:HG	2.01	0.42
1:A:342:MET:C	1:A:343:GLY:O	2.58	0.42
1:A:367:TYR:CG	1:A:565:LYS:HB2	2.55	0.42
1:A:423:TYR:O	1:A:450:ASN:HB2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:542:GLY:O	1:A:546:ARG:HG2	2.20	0.42
1:A:585:PHE:N	1:A:585:PHE:CD1	2.88	0.42
1:A:740:PRO:HG2	1:E:339:THR:HG22	2.01	0.42
1:A:757:ALA:C	1:A:758:GLN:HG3	2.40	0.42
1:A:770:MET:HG3	1:A:776:ILE:HG13	2.02	0.42
1:A:833:ALA:HB1	1:A:835:THR:HG23	2.01	0.42
1:A:852:GLY:C	1:A:854:THR:N	2.73	0.42
1:A:926:VAL:CG1	1:A:940:TYR:HD2	1.86	0.42
1:B:83:ARG:HH21	2:N:400:ARG:NH2	2.13	0.42
1:B:103:ILE:HG21	1:B:610:PHE:CD2	2.55	0.42
1:B:268:PRO:HA	1:B:269:PRO:HD3	1.77	0.42
1:B:390:SER:HA	1:B:535:PHE:HE1	1.85	0.42
1:B:437:GLU:HA	1:B:437:GLU:OE1	2.20	0.42
1:B:662:ASN:HA	1:B:906:GLU:HA	2.01	0.42
1:B:679:SER:HA	1:B:871:TRP:O	2.19	0.42
1:B:705:ILE:C	1:B:707:TYR:H	2.22	0.42
1:C:133:SER:HA	1:C:215:ALA:HB1	2.01	0.42
1:C:280:ASP:O	1:C:281:ILE:HG13	2.20	0.42
1:C:354:ALA:HB2	1:C:936:ILE:CD1	2.50	0.42
1:D:58:THR:HG23	1:E:736:ARG:HH22	1.85	0.42
1:D:303:THR:HG22	1:D:303:THR:O	2.20	0.42
1:D:320:ARG:NH2	1:D:597:LEU:HD11	2.34	0.42
1:D:731:TRP:CD1	1:D:732:PRO:HD2	2.54	0.42
1:D:908:ASP:HB2	1:D:909:PRO:CD	2.50	0.42
1:D:924:ASP:HB3	1:D:942:ARG:HG3	2.02	0.42
1:E:215:ALA:O	1:E:285:THR:HA	2.18	0.42
1:E:532:VAL:O	1:E:532:VAL:HG12	2.18	0.42
1:E:871:TRP:CE3	1:E:871:TRP:HA	2.54	0.42
1:F:131:ASN:OD1	1:F:225:CYS:HA	2.19	0.42
1:F:498:THR:CA	1:F:503:TYR:CD2	3.02	0.42
1:F:550:LEU:HD12	1:F:550:LEU:HA	1.89	0.42
1:F:603:VAL:HA	5:R:40:PRO:CG	2.50	0.42
1:F:675:PHE:N	1:F:944:PRO:HG3	2.35	0.42
1:G:107:LEU:HD12	1:G:108:ASP:H	1.84	0.42
1:G:152:ASP:C	1:G:154:THR:H	2.18	0.42
1:G:377:ARG:HG2	1:G:377:ARG:NH1	2.29	0.42
1:G:543:LEU:CD1	1:G:594:GLN:HG2	2.50	0.42
1:G:819:LEU:HD22	1:G:832:LEU:HD11	2.01	0.42
1:H:383:MET:HE3	1:H:561:GLN:HG2	2.02	0.42
1:H:464:LEU:O	1:H:464:LEU:HD23	2.19	0.42
1:H:494:LEU:HB3	1:H:495:PRO:HD2	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:567:PHE:CZ	1:H:926:VAL:HG13	2.55	0.42
1:H:698:TYR:CD2	1:H:698:TYR:N	2.87	0.42
1:H:756:VAL:CG2	1:H:763:LYS:HA	2.50	0.42
1:H:774:TYR:CE1	1:H:789:ASP:HB2	2.52	0.42
1:H:803:ARG:HH21	1:H:861:GLN:HG3	1.85	0.42
1:I:12:TYR:O	1:I:12:TYR:CG	2.72	0.42
1:I:196:GLU:OE1	1:I:196:GLU:N	2.52	0.42
1:I:255:ASP:HB3	1:I:286:GLU:HB2	2.02	0.42
1:I:404:GLU:OE1	1:I:404:GLU:N	2.36	0.42
1:I:761:MET:O	1:I:761:MET:CG	2.66	0.42
1:I:922:VAL:HG21	1:I:942:ARG:HD2	2.02	0.42
1:I:927:ARG:O	1:I:927:ARG:HG2	2.19	0.42
1:I:937:GLU:HB3	8:Z:10:UNK:CB	2.50	0.42
1:J:52:PRO:CD	7:9:23:ASN:HD22	2.11	0.42
1:J:160:ALA:CB	1:J:213:GLY:N	2.80	0.42
1:J:665:ILE:HD12	1:J:665:ILE:C	2.40	0.42
1:J:795:PHE:HE2	1:L:379:ARG:HE	1.67	0.42
1:K:134:GLN:CD	1:K:154:THR:HG23	2.39	0.42
1:K:155:LYS:HZ2	1:K:283:LEU:HD22	1.85	0.42
1:K:242:PHE:HE2	1:K:289:ASN:ND2	2.16	0.42
1:K:414:LEU:HD23	1:K:414:LEU:HA	1.80	0.42
1:K:476:ASN:O	1:K:480:TYR:HD2	2.02	0.42
1:K:543:LEU:HD13	1:K:594:GLN:CD	2.40	0.42
1:K:567:PHE:CG	1:K:568:ALA:N	2.87	0.42
1:K:831:TYR:CD1	1:K:832:LEU:HG	2.55	0.42
1:K:837:ARG:CG	1:K:837:ARG:O	2.68	0.42
1:L:101:PHE:CZ	1:L:581:TYR:HE1	2.38	0.42
1:L:352:LEU:HD23	1:L:937:GLU:CG	2.50	0.42
1:L:387:ALA:HB3	1:L:546:ARG:NH2	2.35	0.42
2:N:170:GLU:OE1	2:N:462:THR:HB	2.20	0.42
2:N:218:LEU:HD23	2:N:280:LEU:HB2	2.01	0.42
2:N:237:PRO:CD	2:N:350:LEU:HB3	2.48	0.42
4:M:145:LEU:HD21	4:M:163:ILE:CG2	2.48	0.42
4:M:388:TRP:CG	4:M:389:LEU:N	2.88	0.42
5:Q:19:THR:C	5:Q:21:LEU:H	2.22	0.42
5:Q:39:ARG:NH1	5:Q:60:ASP:CB	2.82	0.42
5:R:82:MET:CG	5:R:88:SER:OG	2.67	0.42
5:S:31:VAL:O	5:S:32:MET:C	2.58	0.42
7:4:18:PHE:O	7:4:19:MET:CE	2.68	0.42
1:A:256:ILE:HD11	1:A:284:TYR:HD2	1.73	0.42
1:A:268:PRO:HA	1:A:269:PRO:HD2	1.99	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:495:PRO:HD3	1:A:502:GLU:OE1	2.19	0.42
1:A:581:TYR:O	1:A:582:GLU:HB2	2.20	0.42
1:A:730:SER:O	1:A:732:PRO:N	2.53	0.42
1:A:756:VAL:HG23	1:A:763:LYS:CB	2.50	0.42
1:B:47:ASN:HB2	1:B:48:PRO:HD2	2.01	0.42
1:B:130:PRO:CB	1:B:312:LEU:HD11	2.50	0.42
1:B:419:THR:HG23	1:B:451:GLN:HG3	2.00	0.42
1:B:546:ARG:HG2	1:B:546:ARG:O	2.20	0.42
1:C:66:LEU:CD1	1:C:619:PHE:CZ	3.00	0.42
1:C:121:TYR:HB2	1:C:227:GLY:C	2.40	0.42
1:C:193:PHE:CD1	1:C:284:TYR:HD1	2.28	0.42
1:C:436:GLU:O	1:C:436:GLU:CG	2.53	0.42
1:C:567:PHE:CD1	1:C:568:ALA:N	2.88	0.42
1:D:43:ASN:HA	7:3:8:SER:HB3	2.01	0.42
1:D:196:GLU:HG3	1:E:823:HIS:HB3	2.02	0.42
1:D:244:PRO:HD2	1:D:253:ASP:CA	2.50	0.42
1:D:244:PRO:HD2	1:D:253:ASP:HB2	2.02	0.42
1:D:398:ILE:CD1	1:D:526:LEU:HB2	2.49	0.42
1:D:589:VAL:HG23	1:D:593:LEU:HD12	2.00	0.42
1:E:224:PRO:HG2	1:E:316:SER:OG	2.20	0.42
1:E:346:ALA:HA	1:E:353:ASN:HA	2.01	0.42
1:E:540:ASN:O	1:E:544:ARG:HG2	2.20	0.42
1:F:1:MET:O	1:F:1:MET:SD	2.78	0.42
1:F:497:ASN:HD22	1:F:497:ASN:N	2.18	0.42
1:F:599:ASN:O	1:F:599:ASN:CG	2.58	0.42
1:F:676:ARG:NE	1:F:921:GLU:CG	2.70	0.42
1:F:797:ASN:N	1:F:797:ASN:OD1	2.51	0.42
1:G:150:GLU:C	1:G:152:ASP:N	2.73	0.42
1:G:299:TYR:O	1:G:299:TYR:CD2	2.72	0.42
1:G:391:TYR:CE1	1:G:396:ARG:HB2	2.55	0.42
1:G:414:LEU:CD1	1:H:837:ARG:HD3	2.50	0.42
1:G:723:ILE:O	1:G:730:SER:HB2	2.20	0.42
1:G:746:LYS:HD2	1:G:760:ASN:HD21	1.84	0.42
1:G:798:PHE:CD2	1:G:800:PRO:HD3	2.54	0.42
1:G:843:PRO:HA	1:I:228:SER:O	2.20	0.42
1:H:38:TYR:OH	7:5:24:GLU:HG2	2.20	0.42
1:H:124:LEU:HD23	1:H:124:LEU:HA	1.64	0.42
1:H:172:LEU:HD23	1:H:172:LEU:O	2.20	0.42
1:H:515:ASP:C	1:H:517:TYR:H	2.22	0.42
1:H:681:THR:OG1	1:H:682:ARG:N	2.52	0.42
1:I:86:LEU:C	1:I:86:LEU:HD22	2.39	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:174:LEU:HD12	1:I:191:LYS:HZ1	1.83	0.42
1:I:328:ASP:CA	1:I:546:ARG:NH1	2.83	0.42
1:I:533:ASN:HA	1:I:713:TYR:CE1	2.55	0.42
1:J:94:LEU:HD23	1:J:574:LEU:HD12	1.98	0.42
1:J:131:ASN:HD22	1:J:225:CYS:HA	1.85	0.42
1:J:256:ILE:HD12	1:J:256:ILE:N	2.34	0.42
1:J:320:ARG:HG3	1:J:321:PRO:O	2.20	0.42
1:J:359:GLN:O	1:J:359:GLN:CG	2.68	0.42
1:J:432:ASN:HA	1:K:169:ASN:HD21	1.85	0.42
1:J:546:ARG:NH1	1:J:546:ARG:CB	2.83	0.42
1:J:840:GLN:HG3	1:L:198:GLN:NE2	2.34	0.42
1:K:34:ALA:HA	7:8:15:THR:HB	2.01	0.42
1:K:103:ILE:HG21	1:K:610:PHE:CE2	2.55	0.42
1:K:199:VAL:O	1:K:200:GLY:C	2.58	0.42
1:K:397:ILE:CD1	1:K:523:ARG:NH1	2.81	0.42
1:K:515:ASP:HB3	1:K:517:TYR:CZ	2.54	0.42
1:L:176:THR:HG22	1:L:177:ASP:H	1.80	0.42
1:L:192:THR:O	1:L:193:PHE:C	2.57	0.42
1:L:379:ARG:HH11	1:L:379:ARG:CB	2.33	0.42
1:L:515:ASP:OD1	1:L:516:ALA:N	2.51	0.42
1:L:572:LEU:HA	1:L:643:PHE:CZ	2.54	0.42
1:L:944:PRO:O	1:L:945:PHE:CD1	2.72	0.42
2:N:382:ALA:O	2:N:415:LEU:HD22	2.20	0.42
2:N:433:LEU:C	2:N:435:ARG:N	2.72	0.42
5:Q:47:SER:HA	5:Q:51:TYR:CE1	2.54	0.42
5:R:49:MET:HE1	5:R:50:THR:HA	2.02	0.42
6:V:47:VAL:O	6:V:49:SER:N	2.53	0.42
7:5:16:ARG:CZ	7:5:21:THR:CG2	2.95	0.42
1:A:277:TYR:CD1	1:A:279:ALA:N	2.88	0.42
1:A:637:ASP:HB3	1:A:929:HIS:CE1	2.55	0.42
1:A:691:LEU:O	1:A:691:LEU:HG	2.20	0.42
1:A:783:VAL:HG12	1:A:784:PRO:N	2.35	0.42
1:A:851:ILE:HD11	1:C:116:TYR:CZ	2.52	0.42
1:B:785:GLU:OE1	1:B:787:TYR:CE2	2.73	0.42
1:C:715:ASN:ND2	1:C:871:TRP:NE1	2.65	0.42
1:D:198:GLN:HE21	1:E:838:GLN:HB3	1.83	0.42
1:D:353:ASN:OD1	1:D:355:VAL:HG12	2.20	0.42
1:D:361:ARG:O	1:D:361:ARG:CG	2.67	0.42
1:D:451:GLN:C	1:D:452:ILE:HG13	2.41	0.42
1:E:675:PHE:CE1	1:E:920:PHE:HD1	2.36	0.42
1:E:774:TYR:OH	1:E:795:PHE:HB3	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:837:ARG:HG2	1:F:456:ASN:HD21	1.85	0.42
1:E:864:PHE:O	1:E:864:PHE:CG	2.73	0.42
1:E:922:VAL:CG1	1:E:944:PRO:CB	2.90	0.42
1:F:33:ARG:CD	7:4:12:ARG:CB	2.79	0.42
1:F:301:PRO:CG	1:F:302:GLY:H	2.27	0.42
1:F:369:LEU:HD12	1:F:646:TYR:CE1	2.54	0.42
1:F:518:ILE:H	1:F:518:ILE:HG13	1.73	0.42
1:F:656:ILE:O	1:F:656:ILE:CG1	2.67	0.42
1:F:819:LEU:HB3	1:F:820:PRO:HD3	2.02	0.42
1:F:943:THR:CG2	1:F:944:PRO:CD	2.93	0.42
1:G:93:VAL:O	1:G:94:LEU:C	2.58	0.42
1:G:140:LYS:HG3	1:G:147:VAL:CG2	2.50	0.42
1:G:152:ASP:C	1:G:154:THR:N	2.72	0.42
1:G:486:LYS:O	1:G:507:ARG:NH2	2.53	0.42
1:G:633:MET:O	1:G:636:ASN:CB	2.68	0.42
1:G:713:TYR:CD1	1:G:713:TYR:C	2.93	0.42
1:G:713:TYR:CD1	1:G:714:LEU:N	2.88	0.42
1:G:811:TYR:HD2	1:G:814:TYR:HB2	1.83	0.42
1:H:77:THR:HA	1:H:587:LYS:NZ	2.35	0.42
1:H:198:GLN:NE2	1:H:198:GLN:O	2.53	0.42
1:H:305:ASP:N	1:H:305:ASP:OD1	2.45	0.42
1:H:382:SER:HB2	1:H:549:LEU:HD21	2.02	0.42
1:H:685:THR:OG1	1:H:913:PRO:O	2.35	0.42
1:I:154:THR:CG2	1:I:155:LYS:CE	2.98	0.42
1:I:268:PRO:O	1:I:270:ALA:N	2.53	0.42
1:I:474:TYR:CZ	1:I:479:LEU:HD21	2.55	0.42
1:J:31:PHE:HZ	1:K:630:LEU:HB2	1.80	0.42
1:J:134:GLN:HE21	1:J:154:THR:HG21	1.85	0.42
1:J:310:ILE:HD12	1:J:310:ILE:N	2.35	0.42
1:J:571:ASN:HD22	1:L:43:ASN:ND2	2.18	0.42
1:K:388:VAL:O	1:K:388:VAL:CG1	2.68	0.42
1:K:545:TYR:HA	1:K:548:MET:CE	2.49	0.42
1:K:837:ARG:HD3	1:L:459:ALA:HB2	2.01	0.42
1:L:134:GLN:NE2	1:L:285:THR:HG21	2.35	0.42
1:L:328:ASP:O	1:L:329:ASN:CB	2.67	0.42
1:L:365:LEU:O	1:L:365:LEU:CG	2.65	0.42
1:L:485:TYR:OH	1:L:528:PRO:HB3	2.20	0.42
1:L:624:HIS:C	1:L:626:THR:H	2.22	0.42
1:L:659:LYS:HB2	1:L:659:LYS:HZ3	1.78	0.42
1:L:696:ASP:HA	1:L:697:PRO:HD3	1.94	0.42
1:L:723:ILE:CD1	1:L:903:MET:HE1	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:89:THR:O	2:N:91:ALA:N	2.52	0.42
2:N:377:ASP:OD2	2:N:379:THR:HG22	2.19	0.42
2:N:467:ASN:O	2:N:469:PRO:HD3	2.20	0.42
4:M:273:PHE:O	4:M:273:PHE:CD2	2.72	0.42
4:M:323:VAL:CG1	4:M:344:MET:HE1	2.42	0.42
4:M:358:ARG:HB2	4:M:359:PRO:CD	2.49	0.42
5:Q:104:LEU:O	5:Q:108:LEU:HB2	2.20	0.42
6:U:79:VAL:HA	6:U:187:GLN:HE21	1.85	0.42
7:8:9:LEU:O	7:8:9:LEU:CG	2.62	0.42
1:A:50:VAL:O	7:2:22:TRP:HA	2.20	0.41
1:A:173:LEU:HB2	1:A:185:LYS:NZ	2.35	0.41
1:A:244:PRO:O	1:A:245:VAL:O	2.38	0.41
1:A:427:LYS:CG	1:A:441:GLU:HB3	2.50	0.41
1:A:495:PRO:HD3	1:A:502:GLU:CD	2.41	0.41
1:A:517:TYR:C	1:A:520:ILE:HG23	2.41	0.41
1:A:761:MET:HE3	1:A:766:PHE:CA	2.50	0.41
1:A:925:VAL:HG23	1:C:13:MET:CG	2.50	0.41
1:B:57:THR:HG22	1:B:58:THR:O	2.20	0.41
1:B:136:GLU:CD	1:B:218:LYS:HZ2	2.23	0.41
1:B:325:GLY:O	1:B:593:LEU:HA	2.19	0.41
1:B:408:PRO:HG2	1:B:410:TYR:HE1	1.85	0.41
1:B:636:ASN:O	1:B:637:ASP:CB	2.67	0.41
1:B:711:THR:O	1:B:711:THR:HG23	2.19	0.41
1:B:921:GLU:O	1:B:944:PRO:HG2	2.20	0.41
1:C:20:ALA:HB3	1:C:47:ASN:HB3	1.99	0.41
1:C:163:GLY:HA3	1:C:208:GLU:CG	2.40	0.41
1:C:199:VAL:HG11	1:C:206:GLU:CG	2.50	0.41
1:C:234:ASN:C	1:C:236:LYS:H	2.24	0.41
1:C:500:THR:O	1:C:501:TYR:C	2.58	0.41
1:C:515:ASP:CG	1:C:516:ALA:N	2.72	0.41
1:C:544:ARG:CG	1:C:545:TYR:N	2.76	0.41
1:C:688:THR:OG1	1:C:707:TYR:HB2	2.20	0.41
1:C:798:PHE:O	1:C:800:PRO:CD	2.66	0.41
1:D:7:MET:O	1:D:10:TRP:HB3	2.19	0.41
1:D:13:MET:HE2	1:E:941:LEU:CB	2.50	0.41
1:D:110:GLY:C	1:D:112:SER:N	2.73	0.41
1:D:140:LYS:O	1:F:448:ARG:NH2	2.53	0.41
1:D:206:GLU:HA	1:D:206:GLU:OE1	2.20	0.41
1:D:524:TRP:CG	1:D:525:SER:N	2.84	0.41
1:D:704:SER:OG	1:D:711:THR:HG21	2.20	0.41
1:D:943:THR:CB	1:D:944:PRO:CD	2.98	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:222:MET:CE	1:E:307:SER:HA	2.50	0.41
1:E:410:TYR:HA	1:E:461:GLU:CB	2.49	0.41
1:E:809:ILE:H	1:E:809:ILE:HG13	1.43	0.41
1:E:887:ASP:OD1	1:E:887:ASP:C	2.56	0.41
1:F:56:VAL:HG12	1:F:57:THR:H	1.84	0.41
1:F:798:PHE:HA	1:F:866:CYS:HB2	2.02	0.41
1:F:837:ARG:O	1:F:837:ARG:CD	2.67	0.41
1:G:53:THR:HG22	1:G:54:HIS:N	2.34	0.41
1:G:55:ASP:OD2	1:G:55:ASP:N	2.53	0.41
1:G:76:THR:OG1	1:G:79:LEU:HD12	2.20	0.41
1:G:261:PHE:HA	1:I:424:GLN:O	2.20	0.41
1:G:369:LEU:O	1:G:370:LEU:C	2.58	0.41
1:G:390:SER:OG	1:G:541:ALA:CB	2.64	0.41
1:G:392:ASP:OD1	1:G:392:ASP:C	2.59	0.41
1:G:575:LEU:CB	1:G:635:ARG:NH2	2.82	0.41
1:G:696:ASP:O	1:G:698:TYR:N	2.53	0.41
1:G:795:PHE:HE1	1:I:381:PHE:CD1	2.38	0.41
1:H:104:ARG:O	1:H:611:ASP:HB2	2.19	0.41
1:H:138:LYS:HD3	1:H:149:GLN:OE1	2.20	0.41
1:H:166:ASN:HA	1:H:210:PHE:CD1	2.54	0.41
1:H:187:ILE:C	1:H:189:ALA:N	2.74	0.41
1:H:204:TRP:NE1	1:H:415:ASN:HA	2.34	0.41
1:H:250:GLN:HG3	1:H:250:GLN:O	2.20	0.41
1:H:369:LEU:HA	1:H:369:LEU:HD12	1.75	0.41
1:H:737:LEU:HD12	1:H:764:ASP:HB2	2.01	0.41
1:I:55:ASP:O	1:I:57:THR:N	2.52	0.41
1:I:56:VAL:HG22	1:I:56:VAL:O	2.19	0.41
1:I:71:VAL:HG12	1:I:72:ASP:OD2	2.19	0.41
1:I:344:VAL:HA	1:I:355:VAL:HG12	2.02	0.41
1:I:581:TYR:HE2	1:I:583:TRP:HE3	1.67	0.41
1:J:124:LEU:HD21	1:K:467:ASN:HA	2.02	0.41
1:J:460:MET:CE	1:K:413:PRO:HA	2.50	0.41
1:J:571:ASN:ND2	1:L:43:ASN:ND2	2.68	0.41
1:J:597:LEU:HD13	1:J:597:LEU:O	2.20	0.41
1:J:602:ARG:HG2	1:J:602:ARG:NH1	2.33	0.41
1:J:605:GLY:O	1:J:606:ALA:HB2	2.20	0.41
1:J:707:TYR:HE1	1:J:917:TYR:CE1	2.38	0.41
1:J:783:VAL:HG23	1:J:795:PHE:CZ	2.55	0.41
1:K:94:LEU:O	1:K:94:LEU:CG	2.42	0.41
1:K:140:LYS:HA	1:K:147:VAL:H	1.84	0.41
1:K:149:GLN:C	1:K:150:GLU:CG	2.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:243:LYS:CB	1:K:244:PRO:HD2	2.33	0.41
1:K:476:ASN:O	1:K:537:HIS:CE1	2.70	0.41
1:K:676:ARG:C	1:K:875:PHE:HB2	2.32	0.41
1:L:96:MET:C	1:L:98:SER:H	2.22	0.41
1:L:398:ILE:HD12	1:L:398:ILE:C	2.39	0.41
2:N:170:GLU:HG3	2:N:171:THR:N	2.35	0.41
2:N:354:TRP:HH2	2:N:373:LEU:HB3	1.85	0.41
4:M:45:ARG:HG2	4:M:45:ARG:O	2.20	0.41
4:M:73:LEU:HA	4:M:76:VAL:HG12	2.02	0.41
4:M:202:ALA:O	4:M:230:SER:HB3	2.20	0.41
5:P:5:GLY:C	5:P:7:ALA:H	2.23	0.41
6:U:212:PHE:O	6:U:214:PRO:HD3	2.20	0.41
6:V:59:ALA:CA	6:V:193:VAL:HG21	2.49	0.41
7:2:17:PRO:CG	7:2:22:TRP:CZ2	3.03	0.41
1:A:18:GLN:HG3	1:A:23:TYR:HB3	2.01	0.41
1:A:109:ARG:HD3	1:A:113:PHE:CG	2.55	0.41
1:A:160:ALA:O	1:C:455:GLY:N	2.40	0.41
1:A:198:GLN:O	1:A:201:GLU:OE2	2.38	0.41
1:A:329:ASN:O	1:A:330:PHE:HB2	2.19	0.41
1:A:427:LYS:HB2	1:A:441:GLU:H	1.84	0.41
1:B:103:ILE:CG2	1:B:610:PHE:CD2	3.03	0.41
1:B:155:LYS:CE	1:B:259:ALA:CB	2.95	0.41
1:B:160:ALA:HB1	1:B:212:GLY:O	2.20	0.41
1:C:424:GLN:HA	1:C:445:ALA:O	2.19	0.41
1:C:497:ASN:H	1:C:497:ASN:ND2	2.09	0.41
1:C:676:ARG:HG3	1:C:921:GLU:HB3	2.02	0.41
1:C:807:ASP:H	1:C:858:SER:HA	1.85	0.41
1:C:827:GLY:CA	1:C:839:GLY:HA3	2.49	0.41
1:C:835:THR:HB	1:C:836:MET:H	1.69	0.41
1:C:836:MET:HG3	1:C:837:ARG:N	2.35	0.41
1:C:915:LEU:HD12	1:C:915:LEU:C	2.40	0.41
1:D:129:ALA:HB2	1:F:416:GLY:H	1.85	0.41
1:D:167:ILE:HB	1:D:282:ILE:HD13	2.02	0.41
1:D:432:ASN:ND2	1:E:169:ASN:CG	2.74	0.41
1:D:571:ASN:HD22	1:D:571:ASN:HA	1.56	0.41
1:D:603:VAL:HG12	1:D:603:VAL:O	2.19	0.41
1:E:239:GLN:CG	1:E:240:ALA:N	2.82	0.41
1:E:572:LEU:HD21	1:E:928:VAL:HG11	2.01	0.41
1:E:608:VAL:HG23	1:E:610:PHE:CE1	2.54	0.41
1:F:88:VAL:HG13	1:F:577:GLY:N	2.21	0.41
1:F:166:ASN:O	1:F:172:LEU:O	2.37	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:348:GLN:O	1:F:348:GLN:HG2	2.20	0.41
1:F:362:ASN:ND2	1:F:365:LEU:N	2.68	0.41
1:F:390:SER:O	1:F:391:TYR:C	2.58	0.41
1:F:481:LEU:HD23	1:F:529:MET:CG	2.49	0.41
1:F:581:TYR:CD2	1:F:582:GLU:N	2.88	0.41
1:F:654:TYR:CE1	1:F:665:ILE:HD12	2.56	0.41
1:F:656:ILE:HG22	1:F:663:VAL:CG2	2.50	0.41
1:F:708:LEU:HD12	1:F:709:ASP:N	2.35	0.41
1:F:760:ASN:ND2	1:F:760:ASN:N	2.68	0.41
1:G:103:ILE:HD13	1:G:560:ILE:CG1	2.44	0.41
1:G:531:ASN:C	1:G:531:ASN:HD22	2.22	0.41
1:G:767:LEU:HD23	1:G:771:LEU:HB2	2.01	0.41
1:H:15:ILE:HG13	1:I:925:VAL:HG11	2.02	0.41
1:H:197:PRO:HD2	1:H:198:GLN:H	1.86	0.41
1:H:224:PRO:HG3	1:H:314:GLN:HB2	2.02	0.41
1:H:329:ASN:OD1	1:H:386:SER:HB3	2.20	0.41
1:H:360:ASP:OD2	1:H:360:ASP:N	2.53	0.41
1:H:508:VAL:CG2	1:H:509:VAL:N	2.83	0.41
1:H:540:ASN:O	1:H:541:ALA:C	2.58	0.41
1:H:603:VAL:O	5:Q:40:PRO:HG2	2.19	0.41
1:H:850:LEU:H	1:H:851:ILE:HD13	1.84	0.41
1:I:173:LEU:HA	1:I:185:LYS:HD3	2.02	0.41
1:I:293:PRO:O	1:I:294:ASP:OD1	2.38	0.41
1:J:173:LEU:HB2	1:J:185:LYS:HZ2	1.84	0.41
1:J:461:GLU:O	1:K:411:CYS:CA	2.65	0.41
1:J:748:SER:HA	5:Q:54:VAL:HG13	2.02	0.41
1:J:756:VAL:HG23	1:L:383:MET:SD	2.61	0.41
1:K:333:LEU:HD22	1:K:333:LEU:O	2.20	0.41
1:K:344:VAL:HG13	1:K:344:VAL:O	2.20	0.41
1:K:587:LYS:HG2	1:K:587:LYS:O	2.20	0.41
1:K:787:TYR:CG	1:K:788:LYS:N	2.88	0.41
1:L:333:LEU:HD11	1:L:560:ILE:HD12	2.00	0.41
1:L:537:HIS:CG	1:L:538:PRO:HD2	2.54	0.41
1:L:572:LEU:HD11	1:L:641:GLN:OE1	2.14	0.41
4:M:116:LEU:HA	4:M:116:LEU:HD23	1.86	0.41
4:M:173:VAL:O	4:M:177:GLU:OE2	2.37	0.41
5:Q:39:ARG:NH1	5:Q:60:ASP:CA	2.81	0.41
5:R:19:THR:CG2	5:R:22:PRO:HD3	2.49	0.41
5:R:49:MET:CE	5:R:50:THR:CA	2.98	0.41
6:U:57:GLU:O	6:U:59:ALA:N	2.53	0.41
6:V:2:SER:CB	6:V:200:PRO:HD3	2.49	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:V:69:LEU:O	6:V:211:GLU:OE2	2.38	0.41
6:V:90:LEU:HD13	6:V:168:TYR:CE1	2.56	0.41
7:5:15:THR:HG22	7:5:16:ARG:CA	2.50	0.41
1:A:403:VAL:O	1:A:403:VAL:HG23	2.20	0.41
1:A:514:VAL:O	1:A:514:VAL:HG22	2.21	0.41
1:A:571:ASN:HD22	1:A:571:ASN:HA	1.52	0.41
1:A:644:ASN:H	1:C:46:ARG:HD3	1.85	0.41
1:B:96:MET:HE2	1:B:574:LEU:HD22	2.02	0.41
1:B:199:VAL:CG1	1:B:200:GLY:H	2.32	0.41
1:B:203:ASN:HB2	1:C:836:MET:HE2	2.00	0.41
1:B:725:PHE:CD1	1:B:901:LEU:CD1	3.03	0.41
1:C:23:TYR:CD1	1:C:24:LEU:N	2.88	0.41
1:C:323:TYR:HB2	1:C:596:SER:HB2	2.01	0.41
1:C:523:ARG:O	1:C:801:MET:HB2	2.21	0.41
1:C:734:ASN:C	1:C:736:ARG:N	2.73	0.41
1:D:66:LEU:HD12	1:D:619:PHE:CZ	2.55	0.41
1:D:524:TRP:CE3	1:D:524:TRP:CA	2.92	0.41
1:D:537:HIS:CG	1:D:538:PRO:HD2	2.55	0.41
1:D:828:PHE:HB3	1:E:412:PHE:HZ	1.84	0.41
1:E:184:LYS:HZ3	1:E:191:LYS:HD3	1.85	0.41
1:E:209:ALA:HB3	1:E:210:PHE:CE1	2.55	0.41
1:E:320:ARG:H	1:E:320:ARG:HG2	1.46	0.41
1:E:330:PHE:CZ	1:E:560:ILE:HB	2.56	0.41
1:E:341:ASN:OD1	1:E:341:ASN:N	2.52	0.41
1:E:444:ASP:OD1	1:F:154:THR:CG2	2.60	0.41
1:E:499:ASN:HB3	1:E:600:ASP:HB2	2.02	0.41
1:E:543:LEU:HD21	1:E:594:GLN:NE2	2.34	0.41
1:E:590:ASN:HD21	1:E:702:SER:HB3	1.79	0.41
1:E:665:ILE:HD12	1:E:666:SER:N	2.35	0.41
1:E:893:LEU:HB2	1:E:894:TYR:CE1	2.55	0.41
1:F:575:LEU:H	1:F:930:GLN:NE2	2.18	0.41
1:F:623:ALA:HB3	1:F:626:THR:CG2	2.49	0.41
1:F:803:ARG:HH12	1:F:805:VAL:CG2	2.34	0.41
1:F:878:ASN:ND2	1:F:880:MET:HG3	2.35	0.41
1:F:915:LEU:O	1:F:915:LEU:CD1	2.64	0.41
1:G:31:PHE:C	1:G:33:ARG:N	2.73	0.41
1:G:99:THR:HA	1:G:616:TYR:O	2.21	0.41
1:G:391:TYR:O	1:G:392:ASP:C	2.58	0.41
1:G:428:ILE:O	1:G:429:THR:O	2.38	0.41
1:G:443:ASP:O	1:H:152:ASP:HB3	2.20	0.41
1:G:481:LEU:CD1	1:G:513:LEU:HD21	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:485:TYR:CD2	1:G:485:TYR:N	2.88	0.41
1:G:495:PRO:CG	1:G:500:THR:HG21	2.50	0.41
1:G:575:LEU:CB	1:G:635:ARG:HH22	2.33	0.41
1:G:665:ILE:CD1	1:G:918:LEU:HD22	2.50	0.41
1:H:346:ALA:CA	1:H:353:ASN:HA	2.45	0.41
1:H:464:LEU:CD2	1:H:464:LEU:C	2.89	0.41
1:H:533:ASN:C	1:H:533:ASN:HD22	2.23	0.41
1:H:575:LEU:CB	1:H:635:ARG:NH2	2.83	0.41
1:H:871:TRP:CE3	1:H:871:TRP:HA	2.56	0.41
1:I:6:MET:O	1:I:8:PRO:N	2.53	0.41
1:I:79:LEU:HD21	1:I:341:ASN:HD21	1.85	0.41
1:I:88:VAL:O	1:I:89:GLY:C	2.58	0.41
1:I:90:ASP:O	1:I:91:ASN:C	2.58	0.41
1:I:107:LEU:HB2	1:I:558:PHE:HD2	1.83	0.41
1:I:132:PRO:HB2	1:I:215:ALA:CA	2.47	0.41
1:I:258:PHE:CE2	1:I:284:TYR:CD2	3.03	0.41
1:I:486:LYS:H	1:I:486:LYS:HG3	1.73	0.41
1:I:575:LEU:HB3	1:I:631:GLU:HG3	2.03	0.41
1:I:721:VAL:O	1:I:742:GLU:CB	2.50	0.41
1:I:872:ARG:HH11	1:I:872:ARG:HG2	1.85	0.41
1:J:151:LYS:CB	1:J:154:THR:HG21	2.49	0.41
1:J:165:ILE:HG22	1:J:166:ASN:N	2.35	0.41
1:J:190:ASP:CG	1:J:191:LYS:N	2.74	0.41
1:J:201:GLU:C	1:K:836:MET:HE2	2.41	0.41
1:J:235:GLU:C	1:J:237:GLY:N	2.73	0.41
1:J:545:TYR:C	1:J:547:SER:N	2.72	0.41
1:K:217:LYS:HE3	1:K:285:THR:HG23	2.01	0.41
1:K:267:SER:HB2	1:K:268:PRO:CD	2.47	0.41
1:K:719:LYS:HZ2	1:K:746:LYS:HD3	1.85	0.41
1:L:119:THR:CG2	1:L:226:TYR:CE1	3.03	0.41
1:L:193:PHE:O	1:L:194:GLN:O	2.39	0.41
1:L:239:GLN:O	1:L:240:ALA:O	2.38	0.41
1:L:524:TRP:CD2	1:L:803:ARG:CG	2.99	0.41
1:L:663:VAL:O	1:L:663:VAL:HG12	2.20	0.41
2:N:117:ASN:ND2	2:N:503:TYR:HD2	2.16	0.41
2:N:135:MET:HA	2:N:155:GLU:O	2.20	0.41
2:N:237:PRO:HA	2:N:268:TYR:CG	2.55	0.41
5:R:40:PRO:O	5:R:41:VAL:C	2.58	0.41
5:S:49:MET:O	5:S:50:THR:HB	2.20	0.41
6:U:217:ASP:O	6:U:219:VAL:N	2.54	0.41
6:V:76:SER:HB3	6:V:180:SER:HB3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:152:ASP:HB2	1:C:444:ASP:C	2.40	0.41
1:A:163:GLY:HA2	1:A:210:PHE:O	2.19	0.41
1:A:877:SER:HB2	1:C:57:THR:OG1	2.21	0.41
1:A:916:LEU:O	1:A:916:LEU:HG	2.20	0.41
1:B:433:ASP:O	1:B:434:GLY:C	2.58	0.41
1:B:537:HIS:C	1:B:539:ARG:N	2.69	0.41
1:B:767:LEU:O	1:B:771:LEU:HB3	2.21	0.41
1:C:7:MET:O	1:C:7:MET:CG	2.59	0.41
1:C:27:GLY:H	1:C:29:VAL:HG12	1.84	0.41
1:C:366:SER:CB	1:C:647:LEU:HB3	2.49	0.41
1:C:422:THR:CB	1:C:448:ARG:O	2.64	0.41
1:D:301:PRO:HG2	1:D:302:GLY:H	1.85	0.41
1:D:409:ASN:HB3	1:F:467:ASN:CG	2.37	0.41
1:D:421:SER:O	1:D:423:TYR:CE1	2.74	0.41
1:D:479:LEU:HA	1:D:509:VAL:HG21	2.03	0.41
1:D:500:THR:HG23	1:D:503:TYR:HB2	2.01	0.41
1:D:769:GLN:HE22	1:D:872:ARG:H	1.67	0.41
1:E:177:ASP:O	1:E:181:GLU:HA	2.19	0.41
1:E:822:GLN:O	1:E:822:GLN:CG	2.68	0.41
1:F:398:ILE:CD1	1:F:473:LEU:CD1	2.80	0.41
1:F:684:LYS:HA	1:F:914:THR:CG2	2.50	0.41
1:F:684:LYS:HB2	1:F:684:LYS:NZ	2.35	0.41
1:F:888:LEU:O	1:F:888:LEU:HG	2.20	0.41
1:G:139:GLU:CG	1:G:140:LYS:H	2.32	0.41
1:G:161:ALA:HB3	1:G:198:GLN:CG	2.46	0.41
1:G:322:ASN:C	1:G:322:ASN:ND2	2.74	0.41
1:G:494:LEU:CD1	1:G:507:ARG:HD2	2.49	0.41
1:G:587:LYS:O	1:G:587:LYS:CG	2.68	0.41
1:G:796:ARG:HG3	1:G:796:ARG:NH1	2.31	0.41
1:H:116:TYR:CD1	1:H:116:TYR:C	2.94	0.41
1:H:133:SER:C	1:H:154:THR:O	2.57	0.41
1:H:177:ASP:OD2	1:H:178:GLU:HB3	2.20	0.41
1:H:243:LYS:HA	1:H:244:PRO:HD3	1.95	0.41
1:H:275:GLU:HB3	1:H:276:GLU:H	1.66	0.41
1:H:389:ASP:OD1	1:H:390:SER:N	2.54	0.41
1:H:436:GLU:OE1	1:H:436:GLU:HA	2.20	0.41
1:H:495:PRO:HG2	1:H:503:TYR:HB2	2.03	0.41
1:H:749:VAL:HA	5:R:55:GLY:CA	2.49	0.41
1:I:7:MET:N	1:I:8:PRO:HD2	2.36	0.41
1:I:15:ILE:O	1:I:15:ILE:HG22	2.20	0.41
1:I:170:GLN:HE21	1:I:185:LYS:HB2	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:231:ARG:HH22	1:I:289:ASN:ND2	2.19	0.41
1:I:509:VAL:O	1:I:509:VAL:HG23	2.20	0.41
1:I:552:ASN:O	1:I:552:ASN:CG	2.59	0.41
1:J:426:VAL:O	1:J:441:GLU:HG2	2.20	0.41
1:J:488:THR:O	1:J:488:THR:CG2	2.69	0.41
1:J:616:TYR:CE2	1:K:763:LYS:HD2	2.55	0.41
1:J:861:GLN:OE1	5:Q:53:THR:CG2	2.68	0.41
1:J:872:ARG:CG	1:J:873:ILE:N	2.83	0.41
1:K:25:SER:HB3	1:L:639:HIS:NE2	2.35	0.41
1:K:162:THR:CB	1:K:193:PHE:CD2	3.03	0.41
1:K:243:LYS:CB	1:K:244:PRO:CD	2.91	0.41
1:K:358:LEU:HD13	1:K:947:ALA:HB2	2.01	0.41
1:K:572:LEU:HD23	1:K:572:LEU:H	1.84	0.41
1:L:220:THR:OG1	1:L:287:ASN:CB	2.69	0.41
1:L:260:TYR:CD2	1:L:282:ILE:HG23	2.52	0.41
1:L:370:LEU:C	1:L:372:ASP:H	2.23	0.41
1:L:469:TRP:CZ2	1:L:473:LEU:HD22	2.55	0.41
1:L:517:TYR:CE1	1:L:847:PRO:HG3	2.55	0.41
1:L:943:THR:HG22	1:L:944:PRO:HD3	2.02	0.41
2:N:74:ASP:OD2	2:N:74:ASP:N	2.51	0.41
2:N:114:LEU:CD1	2:N:502:VAL:HG13	2.47	0.41
2:N:185:TYR:HE1	2:N:194:VAL:HG23	1.83	0.41
4:M:129:ARG:HB3	4:M:133:GLU:OE2	2.21	0.41
4:M:353:MET:HE2	4:M:353:MET:HA	2.02	0.41
5:S:8:PHE:CG	5:S:9:GLU:N	2.61	0.41
5:S:19:THR:O	5:S:20:ARG:C	2.55	0.41
6:U:90:LEU:HD13	6:U:168:TYR:CD1	2.55	0.41
1:A:101:PHE:HB2	1:A:562:VAL:CG2	2.50	0.41
1:A:181:GLU:OE1	1:A:181:GLU:HA	2.19	0.41
1:A:193:PHE:CE1	1:A:213:GLY:HA2	2.55	0.41
1:A:198:GLN:CD	1:B:838:GLN:C	2.74	0.41
1:A:326:PHE:CZ	1:A:560:ILE:HD11	2.56	0.41
1:A:331:VAL:CG1	1:A:565:LYS:NZ	2.58	0.41
1:B:122:ASN:OD1	1:B:122:ASN:N	2.53	0.41
1:B:131:ASN:HB3	1:B:225:CYS:CB	2.50	0.41
1:B:134:GLN:NE2	1:B:151:LYS:NZ	2.68	0.41
1:B:476:ASN:O	1:B:477:VAL:HG12	2.21	0.41
1:B:633:MET:O	1:B:633:MET:HG3	2.20	0.41
1:B:880:MET:HE3	1:B:880:MET:HB2	1.78	0.41
1:C:187:ILE:O	1:C:189:ALA:N	2.54	0.41
1:C:210:PHE:CD1	1:C:210:PHE:N	2.88	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:292:THR:O	1:C:292:THR:OG1	2.37	0.41
1:C:337:ASN:OD1	1:C:361:ARG:O	2.39	0.41
1:C:413:PRO:HD2	1:C:458:TYR:O	2.20	0.41
1:C:481:LEU:HB3	1:C:485:TYR:HD2	1.85	0.41
1:C:723:ILE:O	1:C:729:VAL:HG22	2.19	0.41
1:C:891:ASN:OD1	1:C:891:ASN:C	2.58	0.41
1:D:6:MET:CE	1:D:10:TRP:HE3	2.33	0.41
1:D:106:VAL:HG12	1:D:557:PRO:HB3	2.01	0.41
1:D:723:ILE:HB	1:D:730:SER:HB3	2.02	0.41
1:D:769:GLN:NE2	1:D:872:ARG:HG2	2.35	0.41
1:D:809:ILE:H	1:D:809:ILE:HG13	1.31	0.41
1:D:869:VAL:O	1:D:869:VAL:CG1	2.69	0.41
1:E:200:GLY:O	1:F:836:MET:CE	2.68	0.41
1:E:217:LYS:CG	1:E:286:GLU:O	2.66	0.41
1:E:277:TYR:CE1	1:E:279:ALA:HB2	2.56	0.41
1:E:322:ASN:HD22	1:E:597:LEU:H	1.68	0.41
1:E:377:ARG:HA	1:E:377:ARG:HD3	1.77	0.41
1:E:380:TYR:CD1	1:E:387:ALA:CB	3.04	0.41
1:E:436:GLU:CA	1:E:436:GLU:OE1	2.68	0.41
1:E:586:ARG:HH11	1:E:586:ARG:HG2	1.85	0.41
1:E:794:PHE:HA	1:E:869:VAL:CG2	2.51	0.41
1:F:325:GLY:O	1:F:593:LEU:HA	2.21	0.41
1:F:334:MET:CE	1:F:583:TRP:CD1	3.04	0.41
1:F:764:ASP:C	1:F:767:LEU:H	2.22	0.41
1:F:908:ASP:CB	1:F:909:PRO:CD	2.99	0.41
1:G:52:PRO:HB2	1:G:56:VAL:CG2	2.48	0.41
1:H:134:GLN:HA	1:H:154:THR:CA	2.51	0.41
1:H:345:LEU:C	1:H:345:LEU:HD13	2.40	0.41
1:H:676:ARG:CB	1:H:921:GLU:HB3	2.49	0.41
1:H:766:PHE:O	1:H:767:LEU:C	2.56	0.41
1:H:929:HIS:O	1:H:931:PRO:HD3	2.20	0.41
1:I:50:VAL:HG13	7:5:22:TRP:HD1	1.85	0.41
1:I:55:ASP:C	1:I:57:THR:H	2.23	0.41
1:I:187:ILE:C	1:I:189:ALA:N	2.73	0.41
1:I:223:LYS:HE3	1:I:223:LYS:HB3	1.93	0.41
1:I:345:LEU:HD13	1:I:345:LEU:C	2.36	0.41
1:I:878:ASN:ND2	1:I:880:MET:HG3	2.35	0.41
1:I:921:GLU:OE1	1:I:921:GLU:HA	2.20	0.41
1:J:4:PRO:C	1:J:6:MET:H	2.24	0.41
1:J:6:MET:HE1	6:U:51:ARG:NH2	2.34	0.41
1:J:54:HIS:CB	7:9:25:ILE:HD11	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:235:GLU:C	1:J:237:GLY:H	2.22	0.41
1:J:410:TYR:CD1	1:J:410:TYR:N	2.88	0.41
1:J:485:TYR:N	1:J:485:TYR:CD2	2.89	0.41
1:J:622:MET:HB3	1:J:627:ALA:HB2	2.02	0.41
1:J:724:MET:HE2	5:Q:20:ARG:CZ	2.51	0.41
1:J:727:SER:CA	5:Q:20:ARG:NH2	2.62	0.41
1:K:204:TRP:HZ3	1:L:312:LEU:HB3	1.85	0.41
1:L:19:ASP:HB3	7:8:20:GLY:HA2	2.03	0.41
1:L:20:ALA:CB	1:L:23:TYR:CE2	3.03	0.41
1:L:309:GLU:C	1:L:311:ASN:N	2.72	0.41
1:L:634:LEU:O	1:L:639:HIS:HB2	2.21	0.41
1:L:852:GLY:O	1:L:854:THR:N	2.53	0.41
1:L:922:VAL:O	1:L:922:VAL:HG23	2.20	0.41
2:N:112:THR:HG21	2:N:387:TRP:CE2	2.55	0.41
2:N:134:VAL:CG1	2:N:135:MET:H	2.14	0.41
2:N:173:THR:CG2	2:N:251:LEU:HD21	2.50	0.41
2:N:343:ILE:HG12	2:N:350:LEU:CD1	2.50	0.41
5:Q:14:SER:OG	5:R:15:PRO:CG	2.66	0.41
5:S:62:THR:O	5:S:62:THR:CG2	2.57	0.41
5:S:104:LEU:HD23	5:S:104:LEU:C	2.39	0.41
6:U:14:GLN:CA	6:U:14:GLN:NE2	2.83	0.41
6:U:213:ILE:HD11	6:U:216:PHE:HD1	1.81	0.41
6:V:88:THR:O	6:V:88:THR:CG2	2.67	0.41
1:A:46:ARG:HG2	1:B:642:SER:O	2.20	0.41
1:A:361:ARG:O	1:A:361:ARG:CG	2.68	0.41
1:A:639:HIS:HB2	1:C:24:LEU:CD2	2.50	0.41
1:A:765:TRP:O	1:A:769:GLN:HG2	2.20	0.41
1:A:781:PHE:O	1:C:381:PHE:CE2	2.73	0.41
1:A:921:GLU:O	1:A:922:VAL:HG13	2.21	0.41
1:B:9:GLN:HE21	1:B:9:GLN:CA	2.33	0.41
1:B:202:GLU:OE1	1:C:301:PRO:HA	2.20	0.41
1:B:268:PRO:HB3	1:B:275:GLU:HA	2.01	0.41
1:B:323:TYR:O	1:B:596:SER:N	2.42	0.41
1:B:670:ARG:HH12	2:N:92:GLU:CD	2.24	0.41
1:B:720:LYS:HG3	1:B:742:GLU:CD	2.40	0.41
1:B:747:ARG:NH1	1:B:754:TYR:CB	2.82	0.41
1:C:52:PRO:CG	7:1:24:GLU:HB3	2.49	0.41
1:C:72:ASP:HB2	1:J:73:ARG:CZ	2.42	0.41
1:C:113:PHE:CE2	1:C:115:PRO:HD3	2.56	0.41
1:C:215:ALA:O	1:C:285:THR:HA	2.20	0.41
1:C:330:PHE:CE1	1:C:385:ASN:OD1	2.71	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:336:TYR:O	1:C:337:ASN:C	2.59	0.41
1:C:367:TYR:CE2	1:C:371:LEU:HD12	2.56	0.41
1:D:79:LEU:CG	1:D:80:TYR:N	2.81	0.41
1:E:6:MET:HE3	1:E:6:MET:O	2.20	0.41
1:E:69:VAL:HA	1:E:614:ASN:HB3	2.02	0.41
1:E:133:SER:O	1:E:155:LYS:HA	2.21	0.41
1:E:157:PHE:HB2	1:E:312:LEU:HD21	2.02	0.41
1:E:172:LEU:HD13	1:E:193:PHE:CZ	2.54	0.41
1:E:193:PHE:CE1	1:E:212:GLY:CA	2.97	0.41
1:E:296:HIS:CE1	1:E:317:MET:CG	3.00	0.41
1:E:440:TRP:CD1	1:E:440:TRP:C	2.89	0.41
1:E:603:VAL:HG13	1:E:604:ASP:OD2	2.21	0.41
1:E:683:LEU:HD22	1:E:915:LEU:HB2	2.01	0.41
1:F:23:TYR:C	1:F:23:TYR:CD1	2.93	0.41
1:F:250:GLN:HB3	1:F:251:PRO:HD2	2.03	0.41
1:F:328:ASP:HB2	1:F:546:ARG:CZ	2.50	0.41
1:F:743:PHE:CD1	1:F:743:PHE:N	2.87	0.41
1:G:18:GLN:HG2	1:G:23:TYR:CB	2.40	0.41
1:G:202:GLU:CA	1:H:313:VAL:HG11	2.50	0.41
1:G:662:ASN:ND2	1:G:663:VAL:H	2.06	0.41
1:G:701:TYR:CZ	1:G:703:GLY:N	2.88	0.41
1:G:914:THR:C	1:G:915:LEU:HD12	2.40	0.41
1:H:7:MET:O	1:H:9:GLN:N	2.53	0.41
1:H:88:VAL:O	1:H:89:GLY:C	2.58	0.41
1:H:110:GLY:HA2	1:H:554:ARG:NH2	2.35	0.41
1:H:301:PRO:HG2	1:H:310:ILE:O	2.21	0.41
1:H:328:ASP:O	1:H:331:VAL:HG23	2.20	0.41
1:H:350:SER:HB3	1:L:90:ASP:CB	2.45	0.41
1:H:353:ASN:HD21	1:H:355:VAL:CA	2.34	0.41
1:H:384:TRP:NE1	1:I:781:PHE:O	2.54	0.41
1:H:426:VAL:O	1:H:426:VAL:CG2	2.68	0.41
1:H:442:LYS:HG3	1:I:150:GLU:CG	2.43	0.41
1:H:662:ASN:HA	1:H:906:GLU:CA	2.40	0.41
1:H:726:ASP:OD1	1:H:726:ASP:N	2.51	0.41
1:I:31:PHE:HD2	1:I:32:ALA:CA	2.34	0.41
1:I:88:VAL:CG2	1:I:577:GLY:H	2.34	0.41
1:I:243:LYS:HE3	1:I:251:PRO:HB2	2.02	0.41
1:J:56:VAL:CG2	7:9:24:GLU:CB	2.98	0.41
1:J:96:MET:HB3	1:J:572:LEU:H	1.86	0.41
1:J:170:GLN:HG2	1:J:185:LYS:HG3	2.03	0.41
1:J:403:VAL:CG1	1:J:466:ALA:HA	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:424:GLN:HG3	1:J:446:ILE:O	2.20	0.41
1:J:570:LYS:HE3	1:J:570:LYS:HB3	1.63	0.41
1:K:10:TRP:CD1	6:V:16:GLN:OE1	2.73	0.41
1:K:216:LEU:HA	1:K:286:GLU:O	2.20	0.41
1:K:282:ILE:HD13	1:K:283:LEU:N	2.36	0.41
1:K:385:ASN:C	1:K:385:ASN:HD22	2.24	0.41
1:K:662:ASN:CB	1:K:906:GLU:HA	2.50	0.41
1:K:910:MET:HE2	1:K:914:THR:OG1	2.19	0.41
1:K:948:GLY:HA3	6:U:32:ASN:N	2.35	0.41
1:L:240:ALA:HB3	1:L:288:VAL:CG1	2.50	0.41
1:L:550:LEU:HA	1:L:550:LEU:HD12	1.79	0.41
1:L:706:PRO:HA	1:L:711:THR:CG2	2.51	0.41
1:L:846:PHE:CB	1:L:847:PRO:HD3	2.47	0.41
2:N:39:ARG:HH22	2:N:518:THR:HG21	1.86	0.41
2:N:119:PRO:CG	2:N:122:ASN:HB3	2.43	0.41
2:N:123:GLU:HG3	2:N:124:TYR:N	2.35	0.41
2:N:332:GLU:CG	2:N:333:LYS:H	2.30	0.41
2:N:390:PRO:HG3	2:N:408:TYR:CD2	2.56	0.41
5:P:13:PHE:CG	5:P:14:SER:N	2.87	0.41
5:R:4:THR:HA	5:R:13:PHE:CZ	2.55	0.41
5:R:28:ARG:O	5:R:30:ASN:N	2.53	0.41
6:U:19:LEU:HA	6:U:19:LEU:HD12	1.85	0.41
1:A:135:TRP:CZ2	1:A:153:VAL:O	2.74	0.41
1:A:229:PHE:CE1	1:B:847:PRO:O	2.73	0.41
1:A:240:ALA:HB3	1:A:288:VAL:CG2	2.50	0.41
1:A:326:PHE:CE1	1:A:560:ILE:HD11	2.56	0.41
1:A:468:LEU:HD23	1:B:465:GLN:NE2	2.35	0.41
1:A:495:PRO:HD3	1:A:502:GLU:OE2	2.20	0.41
1:A:811:TYR:CE1	1:A:857:PRO:HD2	2.54	0.41
1:B:26:PRO:HB3	6:U:176:SER:CB	2.44	0.41
1:B:36:ASP:O	1:B:37:THR:O	2.38	0.41
1:B:116:TYR:CB	1:C:520:ILE:HG23	2.44	0.41
1:B:153:VAL:O	1:B:153:VAL:HG23	2.21	0.41
1:B:230:ALA:HB3	1:B:239:GLN:NE2	2.35	0.41
1:B:354:ALA:HB2	1:B:936:ILE:CG2	2.51	0.41
1:B:397:ILE:O	1:B:397:ILE:HG22	2.21	0.41
1:B:680:PHE:CD1	1:B:680:PHE:N	2.88	0.41
1:B:756:VAL:CG1	1:B:757:ALA:N	2.84	0.41
1:C:196:GLU:N	1:C:197:PRO:CD	2.83	0.41
1:C:362:ASN:HD21	1:C:365:LEU:H	1.69	0.41
1:C:417:THR:HG21	1:C:453:CYS:CB	2.46	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:446:ILE:HB	1:C:447:SER:H	1.44	0.41
1:C:561:GLN:HA	1:C:561:GLN:OE1	2.20	0.41
1:D:20:ALA:HA	1:D:23:TYR:CE2	2.55	0.41
1:D:22:GLU:H	1:D:22:GLU:HG3	1.76	0.41
1:D:230:ALA:HB1	1:D:288:VAL:HG22	2.02	0.41
1:D:406:GLU:HB2	1:D:407:LEU:HD12	2.03	0.41
1:D:515:ASP:OD2	1:D:517:TYR:CE2	2.73	0.41
1:D:682:ARG:HH22	1:D:910:MET:HG3	1.86	0.41
1:D:824:ASN:HA	1:D:844:ALA:HB1	2.03	0.41
1:E:309:GLU:O	1:E:310:ILE:C	2.59	0.41
1:E:323:TYR:O	1:E:324:ILE:HG13	2.20	0.41
1:E:626:THR:HG23	1:E:627:ALA:N	2.25	0.41
1:E:678:TRP:NE1	1:E:903:MET:HE1	2.35	0.41
1:E:869:VAL:CG2	1:E:870:MET:N	2.71	0.41
1:F:46:ARG:HG2	7:4:7:ALA:H	1.84	0.41
1:F:415:ASN:O	1:F:417:THR:N	2.54	0.41
1:F:590:ASN:HB2	1:F:602:ARG:CG	2.43	0.41
1:F:662:ASN:HA	1:F:906:GLU:HA	2.02	0.41
1:F:862:LYS:O	1:F:863:LYS:HB3	2.20	0.41
1:F:867:ASP:O	1:F:868:ARG:HB2	2.20	0.41
1:G:94:LEU:HD13	1:G:95:ASP:N	2.36	0.41
1:G:345:LEU:HD21	1:G:936:ILE:HD12	2.02	0.41
1:G:630:LEU:HD11	1:I:41:LEU:HD11	2.02	0.41
1:G:811:TYR:CZ	1:G:813:ASP:HB3	2.55	0.41
1:G:825:ASN:HA	1:I:122:ASN:HA	2.03	0.41
1:G:831:TYR:CD1	1:G:831:TYR:O	2.74	0.41
1:G:932:HIS:O	1:G:935:VAL:HG12	2.21	0.41
1:H:187:ILE:H	1:H:187:ILE:HG13	1.59	0.41
1:H:188:TYR:N	1:H:188:TYR:CD2	2.87	0.41
1:H:384:TRP:CE3	1:H:384:TRP:CA	3.03	0.41
1:H:445:ALA:O	1:H:449:GLN:CD	2.50	0.41
1:H:614:ASN:HB2	1:H:616:TYR:HE1	1.86	0.41
1:H:778:TYR:O	1:H:779:GLN:HG2	2.21	0.41
1:H:828:PHE:HZ	1:H:841:PRO:HG3	1.76	0.41
1:H:875:PHE:CD2	1:H:875:PHE:O	2.74	0.41
1:I:339:THR:CG2	1:I:342:MET:HE2	2.50	0.41
1:I:364:GLU:C	1:I:366:SER:N	2.73	0.41
1:I:547:SER:C	1:I:549:LEU:H	2.24	0.41
1:I:564:GLN:HE22	1:I:566:PHE:HB3	1.86	0.41
1:I:754:TYR:O	1:I:763:LYS:N	2.54	0.41
1:I:762:THR:CG2	1:I:764:ASP:OD1	2.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:867:ASP:O	1:I:868:ARG:CB	2.69	0.41
1:J:46:ARG:HG2	1:J:47:ASN:N	2.36	0.41
1:J:174:LEU:HD13	1:J:191:LYS:HE2	2.03	0.41
1:J:327:ARG:CG	1:J:594:GLN:HB2	2.33	0.41
1:J:447:SER:OG	1:K:264:PRO:HB3	2.20	0.41
1:J:487:TYR:CD1	1:J:487:TYR:C	2.93	0.41
1:J:515:ASP:OD2	1:J:517:TYR:CE2	2.73	0.41
1:J:697:PRO:O	5:P:34:SER:HB3	2.20	0.41
1:J:922:VAL:O	1:J:922:VAL:HG23	2.19	0.41
1:K:84:PHE:HB2	1:K:615:LEU:HD12	2.03	0.41
1:K:465:GLN:OE1	1:K:465:GLN:HA	2.19	0.41
1:K:644:ASN:HB2	1:K:924:ASP:O	2.21	0.41
1:K:737:LEU:N	1:K:737:LEU:CD2	2.83	0.41
1:K:744:GLU:HA	1:K:744:GLU:OE1	2.21	0.41
1:K:943:THR:CB	1:K:944:PRO:CD	2.98	0.41
1:L:31:PHE:O	1:L:34:ALA:N	2.52	0.41
1:L:74:GLU:HG3	1:L:81:LYS:CB	2.35	0.41
1:L:169:ASN:ND2	1:L:169:ASN:H	2.19	0.41
1:L:184:LYS:O	1:L:184:LYS:CG	2.52	0.41
1:L:187:ILE:C	1:L:189:ALA:N	2.73	0.41
1:L:296:HIS:NE2	1:L:317:MET:HE1	2.36	0.41
1:L:379:ARG:CB	1:L:379:ARG:NH1	2.84	0.41
1:L:500:THR:O	1:L:501:TYR:C	2.57	0.41
1:L:512:SER:O	1:L:513:LEU:C	2.58	0.41
1:L:586:ARG:HE	1:L:586:ARG:HB2	1.39	0.41
1:L:745:ILE:HG13	1:L:765:TRP:CD1	2.56	0.41
2:N:88:PHE:CB	2:N:93:ALA:HB2	2.47	0.41
2:N:385:VAL:CG1	2:N:386:TYR:H	2.33	0.41
4:M:107:THR:HG23	4:M:108:ASN:H	1.86	0.41
4:M:115:ARG:O	4:M:119:ASP:HB2	2.20	0.41
4:M:298:LEU:HD11	6:U:57:GLU:HG3	2.03	0.41
5:P:110:ALA:O	5:P:114:GLN:NE2	2.53	0.41
5:S:115:LEU:HD23	5:S:115:LEU:HA	1.89	0.41
5:S:128:GLN:O	5:S:128:GLN:HG3	2.21	0.41
6:U:20:ALA:HB2	6:U:192:PHE:CZ	2.56	0.41
1:A:224:PRO:HG3	1:A:316:SER:OG	2.20	0.41
1:A:587:LYS:O	1:A:608:VAL:HG22	2.21	0.41
1:B:3:THR:OG1	1:B:4:PRO:HD3	2.15	0.41
1:B:25:SER:O	1:B:29:VAL:HG13	2.20	0.41
1:B:104:ARG:O	1:B:611:ASP:HB2	2.21	0.41
1:B:155:LYS:CD	1:B:283:LEU:HD13	2.44	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:197:PRO:N	1:C:831:TYR:CE1	2.88	0.41
1:B:235:GLU:HB2	1:C:816:ALA:HB3	2.03	0.41
1:B:372:ASP:CG	1:B:791:MET:HB3	2.40	0.41
1:B:452:ILE:HG23	1:C:158:GLY:CA	2.48	0.41
1:B:495:PRO:HG3	1:B:502:GLU:CG	2.51	0.41
1:B:636:ASN:HD22	4:M:16:SER:CB	2.31	0.41
1:B:651:ASN:HD22	1:B:919:LEU:CD2	2.33	0.41
1:C:126:PRO:C	1:C:128:GLY:N	2.72	0.41
1:C:131:ASN:HA	1:C:132:PRO:HD2	1.78	0.41
1:C:662:ASN:CB	1:C:906:GLU:HG3	2.41	0.41
1:C:827:GLY:HA3	1:C:839:GLY:O	2.02	0.41
1:D:19:ASP:HA	1:D:48:PRO:HD2	2.02	0.41
1:D:103:ILE:HG21	1:D:610:PHE:HD2	1.78	0.41
1:D:638:THR:CG2	1:D:639:HIS:N	2.83	0.41
1:D:676:ARG:O	1:D:875:PHE:CB	2.69	0.41
1:D:794:PHE:CD1	1:D:794:PHE:C	2.94	0.41
1:D:827:GLY:C	1:D:828:PHE:CD2	2.93	0.41
1:D:828:PHE:CE1	1:F:125:ALA:CB	3.04	0.41
1:D:892:MET:HE3	1:D:892:MET:N	2.35	0.41
1:E:58:THR:HG23	1:E:60:ARG:O	2.21	0.41
1:E:109:ARG:HH22	1:E:551:GLY:H	1.68	0.41
1:E:246:ASN:ND2	1:E:249:GLU:O	2.54	0.41
1:E:387:ALA:HB3	1:E:546:ARG:HG3	2.03	0.41
1:E:569:ILE:O	1:E:569:ILE:CG2	2.66	0.41
1:E:774:TYR:CE2	1:E:784:PRO:HG3	2.55	0.41
1:F:31:PHE:C	1:F:31:PHE:CD2	2.94	0.41
1:F:370:LEU:C	1:F:372:ASP:N	2.74	0.41
1:F:372:ASP:HA	1:F:377:ARG:HG2	2.01	0.41
1:F:464:LEU:HD23	1:F:464:LEU:HA	1.87	0.41
1:F:491:ASN:ND2	1:F:491:ASN:N	2.68	0.41
1:F:664:PRO:CB	5:P:19:THR:HG23	2.51	0.41
1:F:722:SER:O	1:F:903:MET:HA	2.21	0.41
1:G:199:VAL:CG1	1:I:456:ASN:OD1	2.68	0.41
1:G:312:LEU:HD23	1:I:204:TRP:CZ3	2.56	0.41
1:G:478:ALA:C	1:G:480:TYR:H	2.24	0.41
1:G:651:ASN:CB	1:G:919:LEU:HA	2.50	0.41
1:H:74:GLU:OE1	1:L:69:VAL:HG13	2.11	0.41
1:H:198:GLN:C	1:H:200:GLY:N	2.74	0.41
1:H:424:GLN:O	1:I:261:PHE:CA	2.57	0.41
1:H:941:LEU:HD23	6:V:106:VAL:HG22	2.03	0.41
1:I:290:LEU:HD12	1:I:290:LEU:HA	1.81	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:649:ALA:HB2	1:I:921:GLU:OE1	2.21	0.41
1:I:689:PRO:HB2	1:I:691:LEU:HD23	2.02	0.41
1:J:320:ARG:CB	1:J:505:ASN:HD22	2.33	0.41
1:J:482:PRO:HD3	1:J:529:MET:CB	2.50	0.41
1:J:839:GLY:H	1:L:198:GLN:CG	2.33	0.41
1:K:178:GLU:HG2	1:K:179:THR:CA	2.38	0.41
1:K:203:ASN:OD1	1:K:203:ASN:N	2.53	0.41
1:K:377:ARG:HH11	1:K:388:VAL:CG2	2.33	0.41
1:K:677:GLY:C	1:K:921:GLU:HB2	2.38	0.41
1:K:724:MET:CE	1:K:724:MET:HA	2.47	0.41
1:L:114:LYS:HE3	1:L:294:ASP:HB2	2.03	0.41
1:L:333:LEU:CB	1:L:592:ILE:CG2	2.93	0.41
1:L:364:GLU:HB3	1:L:708:LEU:O	2.21	0.41
1:L:384:TRP:O	1:L:385:ASN:HB3	2.21	0.41
1:L:646:TYR:CD1	1:L:646:TYR:C	2.94	0.41
1:L:723:ILE:HD13	1:L:903:MET:HE1	2.02	0.41
2:N:47:LEU:HD12	2:N:47:LEU:N	2.36	0.41
2:N:82:VAL:CG2	2:N:487:GLN:HG3	2.50	0.41
2:N:236:LEU:HB3	2:N:237:PRO:HD2	2.03	0.41
2:N:472:THR:HG22	2:N:473:ASP:N	2.34	0.41
6:U:76:SER:HA	6:U:180:SER:HB3	2.03	0.41
6:V:16:GLN:OE1	6:V:16:GLN:HA	2.20	0.41
1:A:121:TYR:O	1:A:227:GLY:HA2	2.21	0.41
1:A:232:PRO:HG2	1:B:848:TYR:OH	2.21	0.41
1:A:327:ARG:HH11	1:A:594:GLN:HB2	1.86	0.41
1:A:330:PHE:CZ	1:A:385:ASN:CB	3.01	0.41
1:A:409:ASN:CB	1:C:467:ASN:OD1	2.68	0.41
1:A:575:LEU:HD22	1:A:631:GLU:CB	2.51	0.41
1:A:637:ASP:OD1	1:A:637:ASP:C	2.58	0.41
1:A:644:ASN:ND2	1:A:644:ASN:O	2.54	0.41
1:A:742:GLU:N	1:A:742:GLU:OE1	2.54	0.41
1:A:759:CYS:C	1:A:761:MET:H	2.16	0.41
1:A:791:MET:HA	1:A:796:ARG:HG3	2.03	0.41
1:A:804:GLN:HE22	1:C:552:ASN:N	2.17	0.41
1:A:825:ASN:CB	1:C:122:ASN:HA	2.50	0.41
1:A:882:MET:HE2	1:A:882:MET:HB2	1.81	0.41
1:B:22:GLU:N	1:B:22:GLU:OE2	2.53	0.41
1:B:89:GLY:HA3	1:B:92:ARG:NE	2.34	0.41
1:B:327:ARG:NH1	1:B:594:GLN:HG3	2.36	0.41
1:B:336:TYR:CZ	1:B:565:LYS:HG3	2.55	0.41
1:B:339:THR:CB	1:B:342:MET:HE2	2.40	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:410:TYR:CE2	1:C:414:LEU:HD21	2.56	0.41
1:B:415:ASN:OD1	1:B:417:THR:HG22	2.21	0.41
1:B:554:ARG:HG2	1:B:554:ARG:NH1	2.36	0.41
1:B:640:ASP:OD2	1:B:640:ASP:N	2.53	0.41
1:B:771:LEU:CD1	1:B:880:MET:HE1	2.49	0.41
1:B:837:ARG:NH1	1:C:459:ALA:N	2.69	0.41
1:B:926:VAL:HA	1:B:939:VAL:O	2.20	0.41
1:C:4:PRO:O	1:C:5:SER:C	2.58	0.41
1:C:109:ARG:HG3	1:C:324:ILE:HG21	2.03	0.41
1:C:131:ASN:OD1	1:C:225:CYS:CA	2.69	0.41
1:C:222:MET:HG3	1:C:307:SER:OG	2.21	0.41
1:C:337:ASN:CB	1:C:361:ARG:O	2.68	0.41
1:C:357:ASP:OD1	1:C:566:PHE:HZ	1.99	0.41
1:C:445:ALA:HB3	1:C:450:ASN:ND2	2.35	0.41
1:C:653:LEU:CD2	1:C:917:TYR:CD1	3.04	0.41
1:C:675:PHE:HB2	1:C:944:PRO:CG	2.50	0.41
1:C:705:ILE:CG2	1:C:708:LEU:H	2.20	0.41
1:D:92:ARG:O	1:D:92:ARG:HG3	2.20	0.41
1:D:157:PHE:CZ	1:F:415:ASN:ND2	2.86	0.41
1:D:162:THR:O	1:D:162:THR:HG22	2.20	0.41
1:D:195:PRO:HG2	1:E:823:HIS:CG	2.53	0.41
1:D:199:VAL:CG2	1:D:208:GLU:HG2	2.50	0.41
1:D:412:PHE:CE1	1:F:828:PHE:HD2	2.39	0.41
1:D:686:LYS:HZ1	1:D:701:TYR:HB2	1.86	0.41
1:D:748:SER:O	1:D:749:VAL:HB	2.21	0.41
1:D:789:ASP:HB2	1:D:793:SER:HB3	2.02	0.41
1:D:811:TYR:CD1	1:D:856:VAL:HB	2.56	0.41
1:E:85:THR:CG2	1:E:580:THR:HG22	2.50	0.41
1:E:94:LEU:HD22	1:E:619:PHE:CE2	2.49	0.41
1:E:109:ARG:NH2	1:E:550:LEU:HB3	2.35	0.41
1:E:234:ASN:OD1	1:E:238:GLY:HA3	2.21	0.41
1:E:250:GLN:H	1:E:250:GLN:HG2	1.50	0.41
1:E:367:TYR:O	1:E:367:TYR:CD2	2.74	0.41
1:E:377:ARG:HD2	1:E:388:VAL:HB	2.03	0.41
1:E:384:TRP:HB2	1:E:386:SER:OG	2.20	0.41
1:E:440:TRP:HB2	1:E:441:GLU:H	1.52	0.41
1:E:503:TYR:C	1:E:505:ASN:N	2.73	0.41
1:E:608:VAL:HG21	1:E:610:PHE:HE1	1.81	0.41
1:E:924:ASP:O	1:E:924:ASP:OD1	2.39	0.41
1:F:103:ILE:C	1:F:560:ILE:HD11	2.39	0.41
1:F:198:GLN:O	1:F:200:GLY:N	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:236:LYS:C	1:F:238:GLY:H	2.23	0.41
1:F:344:VAL:HA	1:F:353:ASN:OD1	2.21	0.41
1:F:492:VAL:HG23	1:F:492:VAL:O	2.20	0.41
1:F:517:TYR:HA	1:F:520:ILE:HG23	2.03	0.41
1:F:575:LEU:HD22	1:F:631:GLU:HB2	2.03	0.41
1:F:719:LYS:HA	1:F:745:ILE:HG22	2.02	0.41
1:F:725:PHE:CD1	1:F:731:TRP:HB2	2.56	0.41
1:F:827:GLY:CA	1:F:839:GLY:O	2.65	0.41
1:F:875:PHE:CD2	1:F:875:PHE:C	2.94	0.41
1:G:91:ASN:C	1:G:92:ARG:HG2	2.41	0.41
1:G:134:GLN:HA	1:G:155:LYS:H	1.86	0.41
1:G:312:LEU:CD2	1:I:204:TRP:CH2	2.84	0.41
1:G:314:GLN:N	1:I:203:ASN:ND2	2.68	0.41
1:G:336:TYR:HE2	1:G:565:LYS:HD3	1.86	0.41
1:G:357:ASP:OD1	1:G:357:ASP:N	2.53	0.41
1:G:384:TRP:HA	1:G:384:TRP:CE3	2.55	0.41
1:G:423:TYR:HB3	1:H:261:PHE:HB3	2.03	0.41
1:G:463:ASN:C	1:G:463:ASN:ND2	2.73	0.41
1:G:568:ALA:O	1:G:643:PHE:CE1	2.74	0.41
1:G:644:ASN:CB	1:G:925:VAL:HG12	2.50	0.41
1:G:650:ALA:HB1	1:G:942:ARG:HH21	1.84	0.41
1:G:715:ASN:C	1:G:715:ASN:OD1	2.59	0.41
1:G:785:GLU:HG2	1:G:786:GLY:N	2.36	0.41
1:G:795:PHE:CD2	1:I:379:ARG:NH2	2.88	0.41
1:G:816:ALA:O	1:I:235:GLU:CB	2.65	0.41
1:G:840:GLN:HB3	1:I:159:VAL:HG12	2.02	0.41
1:G:878:ASN:CB	1:I:621:PRO:HG2	2.51	0.41
1:G:929:HIS:O	1:G:937:GLU:HG2	2.21	0.41
1:H:49:THR:CG2	1:I:884:ALA:CB	2.97	0.41
1:H:190:ASP:CG	1:H:191:LYS:H	2.23	0.41
1:H:194:GLN:NE2	1:H:196:GLU:OE1	2.50	0.41
1:H:478:ALA:HB2	1:H:514:VAL:HG12	2.02	0.41
1:H:562:VAL:HG23	1:H:562:VAL:O	2.21	0.41
1:H:766:PHE:O	1:H:768:VAL:N	2.53	0.41
1:H:768:VAL:HG13	1:H:769:GLN:N	2.36	0.41
1:H:809:ILE:O	1:H:809:ILE:HG22	2.21	0.41
1:H:850:LEU:HD23	1:H:850:LEU:HA	1.94	0.41
1:I:58:THR:HG21	1:I:62:GLN:NE2	2.36	0.41
1:I:365:LEU:O	1:I:365:LEU:HG	2.21	0.41
1:I:510:ALA:CB	1:I:832:LEU:HA	2.51	0.41
1:I:676:ARG:HD2	1:I:884:ALA:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:683:LEU:N	1:I:683:LEU:CD2	2.80	0.41
1:I:707:TYR:C	1:I:709:ASP:H	2.23	0.41
1:I:736:ARG:NH1	1:I:736:ARG:HG2	2.34	0.41
1:I:744:GLU:HB3	1:I:762:THR:OG1	2.21	0.41
1:I:785:GLU:OE1	1:I:787:TYR:CE2	2.74	0.41
1:J:35:THR:HG22	1:J:38:TYR:CE1	2.55	0.41
1:J:66:LEU:HD21	1:J:619:PHE:CE1	2.54	0.41
1:J:96:MET:CE	1:J:574:LEU:CD1	2.88	0.41
1:J:106:VAL:CG1	1:J:609:ARG:HD2	2.50	0.41
1:J:114:LYS:CA	1:K:851:ILE:HD12	2.50	0.41
1:J:114:LYS:HZ1	1:J:117:SER:CA	2.34	0.41
1:J:122:ASN:HA	1:K:825:ASN:CA	2.51	0.41
1:J:152:ASP:HA	1:L:444:ASP:CA	2.48	0.41
1:J:156:THR:O	1:L:451:GLN:O	2.38	0.41
1:J:204:TRP:CH2	1:K:128:GLY:O	2.74	0.41
1:J:205:GLN:HA	1:J:205:GLN:OE1	2.20	0.41
1:J:256:ILE:HG23	1:J:286:GLU:OE1	2.21	0.41
1:J:383:MET:HG2	1:J:384:TRP:CE3	2.55	0.41
1:J:524:TRP:HA	1:J:524:TRP:CE3	2.56	0.41
1:J:531:ASN:O	1:J:713:TYR:HE1	1.99	0.41
1:J:552:ASN:OD1	1:K:522:ALA:HB2	2.20	0.41
1:J:714:LEU:HD21	1:J:910:MET:CE	2.50	0.41
1:J:842:TYR:CE1	1:J:843:PRO:HD2	2.56	0.41
1:J:886:THR:C	1:J:888:LEU:N	2.73	0.41
1:K:194:GLN:HG3	1:K:197:PRO:CD	2.50	0.41
1:K:199:VAL:HG22	1:K:206:GLU:HG2	2.03	0.41
1:K:202:GLU:CB	1:L:313:VAL:HG11	2.51	0.41
1:K:241:LYS:HG2	1:K:286:GLU:OE2	1.75	0.41
1:K:672:TRP:CH2	1:K:901:LEU:HD23	2.56	0.41
1:K:730:SER:C	1:K:732:PRO:HD2	2.41	0.41
1:K:773:HIS:O	1:K:774:TYR:CD1	2.74	0.41
1:K:829:THR:O	1:K:837:ARG:HA	2.20	0.41
1:L:31:PHE:HD2	1:L:32:ALA:CA	2.32	0.41
1:L:220:THR:OG1	1:L:287:ASN:HB2	2.21	0.41
1:L:364:GLU:C	1:L:366:SER:H	2.22	0.41
1:L:403:VAL:HG21	1:L:465:GLN:C	2.41	0.41
1:L:412:PHE:CD1	1:L:412:PHE:N	2.89	0.41
1:L:498:THR:HA	1:L:503:TYR:CE2	2.56	0.41
1:L:564:GLN:NE2	1:L:564:GLN:CA	2.84	0.41
1:L:575:LEU:HD21	1:L:634:LEU:HD23	2.02	0.41
1:L:660:ALA:HB2	5:Q:99:GLU:CG	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:764:ASP:OD1	1:L:764:ASP:N	2.44	0.41
1:L:785:GLU:HB3	1:L:788:LYS:HB2	2.03	0.41
1:L:890:GLN:O	1:L:890:GLN:HG3	2.19	0.41
2:N:44:TYR:CZ	2:N:83:VAL:HG21	2.53	0.41
2:N:58:LEU:HD13	2:N:389:LEU:HD22	2.02	0.41
2:N:140:HIS:CE1	2:N:141:PRO:HD2	2.56	0.41
2:N:154:LEU:O	2:N:155:GLU:OE2	2.39	0.41
2:N:258:GLN:HA	2:N:259:PRO:HD2	1.81	0.41
2:N:392:LEU:CD2	2:N:509:VAL:HG21	2.51	0.41
4:M:30:MET:HG2	4:M:30:MET:O	2.21	0.41
4:M:198:ASN:CA	6:U:199:ASN:HD22	2.33	0.41
5:P:120:GLN:O	5:P:124:GLU:HG3	2.20	0.41
5:Q:41:VAL:O	5:Q:41:VAL:HG12	2.20	0.41
6:V:19:LEU:HD12	6:V:19:LEU:HA	1.89	0.41
6:V:90:LEU:O	6:V:91:LEU:C	2.58	0.41
7:4:15:THR:CG2	7:4:16:ARG:N	2.84	0.41
1:A:154:THR:C	1:A:156:THR:N	2.74	0.41
1:A:462:ILE:HG12	1:A:463:ASN:O	2.20	0.41
1:A:573:LEU:HD22	1:C:41:LEU:HD22	2.03	0.41
1:A:723:ILE:HD11	1:A:873:ILE:HD12	2.03	0.41
1:A:729:VAL:C	1:A:730:SER:O	2.56	0.41
1:A:912:GLU:O	1:A:914:THR:HG23	2.21	0.41
1:B:151:LYS:HG2	1:B:151:LYS:O	2.21	0.41
1:B:200:GLY:CA	1:B:206:GLU:HG2	2.50	0.41
1:B:273:SER:O	1:B:274:GLY:O	2.39	0.41
1:B:410:TYR:CD2	1:B:461:GLU:HB3	2.56	0.41
1:B:683:LEU:HD13	1:B:707:TYR:HB2	2.02	0.41
1:B:731:TRP:CE3	1:B:732:PRO:N	2.88	0.41
1:B:770:MET:O	1:B:774:TYR:O	2.38	0.41
1:C:99:THR:O	1:C:100:TYR:HB3	2.21	0.41
1:C:141:GLN:HG3	1:C:142:GLY:N	2.35	0.41
1:C:377:ARG:HB2	1:C:377:ARG:CZ	2.50	0.41
1:C:424:GLN:HB2	1:C:424:GLN:HE21	1.61	0.41
1:C:515:ASP:H	1:C:518:ILE:CG2	2.34	0.41
1:C:518:ILE:CD1	1:C:526:LEU:HD21	2.51	0.41
1:D:196:GLU:CG	1:E:823:HIS:HB3	2.50	0.41
1:D:527:ASP:N	1:D:528:PRO:CD	2.84	0.41
1:D:575:LEU:HD12	1:D:575:LEU:N	2.35	0.41
1:D:738:LEU:HD23	1:D:764:ASP:HB3	2.03	0.41
1:D:776:ILE:HD12	1:D:782:HIS:O	2.21	0.41
1:D:842:TYR:CD1	1:D:843:PRO:HD2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:14:HIS:C	1:E:16:ALA:H	2.23	0.41
1:E:19:ASP:HA	1:E:48:PRO:HG2	2.02	0.41
1:E:78:TYR:CD2	1:E:695:PHE:CG	3.09	0.41
1:E:423:TYR:HB3	1:F:261:PHE:HB3	2.02	0.41
1:E:629:THR:O	1:E:633:MET:HG3	2.21	0.41
1:E:647:LEU:HD21	1:E:919:LEU:CD1	2.51	0.41
1:E:665:ILE:HD12	1:E:665:ILE:C	2.41	0.41
1:F:20:ALA:C	7:4:9:LEU:HD12	2.41	0.41
1:F:103:ILE:HG12	1:F:613:VAL:HG11	2.00	0.41
1:F:243:LYS:HB3	1:F:253:ASP:O	2.21	0.41
1:F:260:TYR:CD2	1:F:260:TYR:N	2.89	0.41
1:F:326:PHE:O	1:F:327:ARG:O	2.39	0.41
1:F:651:ASN:N	1:F:651:ASN:HD22	2.19	0.41
1:F:721:VAL:O	1:F:721:VAL:HG23	2.21	0.41
1:F:771:LEU:HD11	1:F:879:PHE:HB3	2.03	0.41
1:F:785:GLU:CG	1:F:788:LYS:H	2.32	0.41
1:G:20:ALA:CA	1:G:23:TYR:CE2	2.94	0.41
1:G:122:ASN:HA	1:H:825:ASN:CB	2.51	0.41
1:G:143:THR:HG22	1:G:144:THR:CB	2.51	0.41
1:G:267:SER:N	1:G:268:PRO:HD2	2.36	0.41
1:G:567:PHE:CD1	1:G:567:PHE:C	2.91	0.41
1:G:625:ASN:HD21	7:6:29:GLN:NE2	2.19	0.41
1:G:767:LEU:HD21	1:G:771:LEU:HD22	2.03	0.41
1:H:51:ALA:HB1	1:H:52:PRO:HD2	2.03	0.41
1:H:114:LYS:HA	1:I:851:ILE:HD12	2.02	0.41
1:H:300:LYS:HD2	1:H:305:ASP:HB3	2.03	0.41
1:H:775:ASN:ND2	1:H:880:MET:HE3	2.36	0.41
1:H:869:VAL:CG2	1:H:870:MET:H	2.13	0.41
1:I:36:ASP:OD1	1:I:39:PHE:O	2.39	0.41
1:I:76:THR:CG2	1:I:77:THR:H	2.24	0.41
1:I:93:VAL:O	1:I:93:VAL:HG23	2.21	0.41
1:I:154:THR:CG2	1:I:155:LYS:HD3	2.51	0.41
1:I:519:ASN:OD1	1:I:803:ARG:HD2	2.21	0.41
1:I:524:TRP:HA	1:I:801:MET:SD	2.60	0.41
1:I:665:ILE:HD13	1:I:918:LEU:HD22	1.99	0.41
1:I:676:ARG:HH11	1:I:676:ARG:HG2	1.85	0.41
1:I:701:TYR:CZ	1:I:703:GLY:CA	3.04	0.41
1:I:787:TYR:CD1	1:I:787:TYR:O	2.74	0.41
1:I:921:GLU:O	1:I:922:VAL:HG13	2.20	0.41
1:J:304:SER:HB3	1:J:306:ASN:OD1	2.21	0.41
1:J:591:MET:CE	1:J:689:PRO:HB3	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:622:MET:O	1:J:623:ALA:C	2.59	0.41
1:J:658:ALA:O	1:J:659:LYS:CB	2.68	0.41
1:J:679:SER:HA	1:J:871:TRP:O	2.22	0.41
1:J:707:TYR:CE1	1:J:917:TYR:CE1	3.09	0.41
1:J:919:LEU:HD23	1:J:919:LEU:N	2.33	0.41
1:J:921:GLU:OE1	1:J:921:GLU:HA	2.21	0.41
1:K:64:LEU:O	1:K:619:PHE:N	2.45	0.41
1:K:290:LEU:HD12	1:K:290:LEU:HA	1.89	0.41
1:K:416:GLY:C	1:K:417:THR:HG23	2.41	0.41
1:K:423:TYR:C	1:K:449:GLN:CB	2.90	0.41
1:K:774:TYR:CE2	1:K:784:PRO:HG3	2.56	0.41
1:L:16:ALA:HA	1:L:48:PRO:HB3	2.03	0.41
1:L:107:LEU:HD13	1:L:607:SER:CB	2.47	0.41
1:L:355:VAL:HG23	1:L:566:PHE:CE1	2.56	0.41
1:L:399:GLU:HG2	1:L:523:ARG:HA	2.03	0.41
1:L:462:ILE:CG1	1:L:463:ASN:N	2.77	0.41
1:L:503:TYR:CD2	1:L:504:MET:N	2.89	0.41
1:L:538:PRO:HG2	1:L:539:ARG:HG3	2.03	0.41
1:L:902:ASP:O	1:L:902:ASP:OD2	2.39	0.41
4:M:78:ALA:HA	4:M:81:GLU:HG2	2.02	0.41
4:M:165:ALA:HA	4:M:241:THR:OG1	2.21	0.41
4:M:352:SER:CB	4:M:355:ALA:HB3	2.48	0.41
5:Q:66:ALA:O	5:Q:70:ALA:HB2	2.21	0.41
5:R:80:SER:O	5:R:81:TYR:C	2.60	0.41
5:S:41:VAL:C	5:S:43:PRO:HD3	2.39	0.41
5:S:76:ARG:HD3	5:S:76:ARG:C	2.41	0.41
6:U:14:GLN:HE21	6:U:15:PRO:N	2.19	0.41
6:V:53:GLN:O	6:V:53:GLN:HG2	2.21	0.41
1:A:31:PHE:CD2	1:A:31:PHE:C	2.94	0.40
1:A:421:SER:OG	1:A:452:ILE:O	2.25	0.40
1:A:795:PHE:HE1	1:C:381:PHE:CD1	2.39	0.40
1:A:795:PHE:HE1	1:C:381:PHE:CE1	2.39	0.40
1:A:832:LEU:O	1:A:832:LEU:HG	2.20	0.40
1:A:852:GLY:C	1:A:854:THR:H	2.24	0.40
1:B:51:ALA:HB2	1:C:882:MET:O	2.21	0.40
1:B:187:ILE:O	1:B:191:LYS:C	2.60	0.40
1:B:245:VAL:H	1:B:245:VAL:HG23	1.59	0.40
1:B:263:VAL:HG13	1:B:264:PRO:HD2	2.03	0.40
1:B:441:GLU:OE1	1:B:441:GLU:HA	2.20	0.40
1:B:463:ASN:O	1:B:465:GLN:N	2.53	0.40
1:B:675:PHE:HA	1:B:944:PRO:HG3	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:731:TRP:HZ3	1:B:743:PHE:CZ	2.28	0.40
1:C:188:TYR:CE1	1:C:256:ILE:HB	2.56	0.40
1:C:631:GLU:OE2	1:C:632:ALA:N	2.54	0.40
1:D:19:ASP:CB	1:D:47:ASN:HB2	2.27	0.40
1:D:93:VAL:HG12	1:D:575:LEU:HG	2.03	0.40
1:D:94:LEU:HD11	1:D:99:THR:CG2	2.51	0.40
1:D:235:GLU:CD	1:E:815:LYS:HB3	2.41	0.40
1:D:262:ASP:OD1	1:D:263:VAL:N	2.54	0.40
1:D:288:VAL:HG22	1:D:289:ASN:H	1.85	0.40
1:D:377:ARG:NH1	1:D:377:ARG:CG	2.78	0.40
1:D:439:GLU:HA	1:D:439:GLU:OE1	2.21	0.40
1:D:446:ILE:HD12	1:E:141:GLN:HB3	1.91	0.40
1:D:519:ASN:O	1:D:520:ILE:C	2.59	0.40
1:D:544:ARG:CZ	1:E:401:HIS:NE2	2.84	0.40
1:D:677:GLY:O	1:D:921:GLU:HG2	2.21	0.40
1:D:778:TYR:O	1:D:779:GLN:HG2	2.21	0.40
1:E:49:THR:HB	1:F:884:ALA:HB3	2.04	0.40
1:E:78:TYR:CD2	1:E:695:PHE:CD2	3.09	0.40
1:E:120:ALA:HB3	1:E:121:TYR:CE1	2.56	0.40
1:E:485:TYR:HE2	1:E:528:PRO:HB3	1.83	0.40
1:E:564:GLN:HG3	1:E:581:TYR:OH	2.21	0.40
1:E:779:GLN:HE22	1:F:39:PHE:HA	1.86	0.40
1:F:186:ASP:OD2	1:F:192:THR:O	2.39	0.40
1:F:256:ILE:HG22	1:F:257:ASP:N	2.36	0.40
1:F:545:TYR:C	1:F:547:SER:H	2.24	0.40
1:F:701:TYR:CE1	1:F:703:GLY:HA3	2.56	0.40
1:G:43:ASN:HD22	1:G:43:ASN:N	2.19	0.40
1:G:280:ASP:OD1	1:G:280:ASP:C	2.58	0.40
1:G:460:MET:HA	1:G:460:MET:HE2	2.02	0.40
1:H:53:THR:HG22	1:H:54:HIS:N	2.28	0.40
1:H:56:VAL:HG13	7:7:24:GLU:HB2	2.04	0.40
1:H:90:ASP:O	1:H:90:ASP:OD1	2.39	0.40
1:H:197:PRO:CD	1:H:198:GLN:N	2.84	0.40
1:H:262:ASP:OD1	1:H:276:GLU:OE1	2.39	0.40
1:H:338:SER:O	1:H:342:MET:HB3	2.21	0.40
1:H:716:HIS:CE1	1:H:717:THR:HG23	2.56	0.40
1:H:878:ASN:OD1	1:H:880:MET:HG3	2.21	0.40
1:H:906:GLU:O	1:H:906:GLU:HG3	2.20	0.40
1:H:936:ILE:O	1:H:936:ILE:HG12	2.20	0.40
1:I:135:TRP:CZ3	1:I:309:GLU:HG3	2.56	0.40
1:I:246:ASN:OD1	1:I:247:GLU:CA	2.60	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:685:THR:CG2	1:I:686:LYS:N	2.83	0.40
1:I:809:ILE:CG1	1:I:810:ASN:CG	2.84	0.40
1:J:101:PHE:HZ	1:J:581:TYR:HE2	1.68	0.40
1:J:196:GLU:O	1:J:198:GLN:N	2.48	0.40
1:J:403:VAL:HG11	1:J:466:ALA:CA	2.51	0.40
1:J:501:TYR:O	1:J:503:TYR:N	2.54	0.40
1:J:681:THR:O	1:J:917:TYR:N	2.54	0.40
1:J:827:GLY:C	1:J:828:PHE:CD1	2.94	0.40
1:J:849:PRO:HD3	1:L:229:PHE:CZ	2.55	0.40
1:J:883:GLY:HA3	1:L:49:THR:O	2.20	0.40
1:K:109:ARG:CD	1:K:324:ILE:HB	2.51	0.40
1:K:140:LYS:CB	1:K:147:VAL:H	2.32	0.40
1:K:164:GLY:HA3	1:K:173:LEU:O	2.21	0.40
1:K:224:PRO:HG3	1:K:316:SER:OG	2.20	0.40
1:K:301:PRO:O	1:K:302:GLY:C	2.57	0.40
1:K:374:LEU:HD12	1:K:374:LEU:HA	1.71	0.40
1:K:423:TYR:CE1	1:K:452:ILE:HB	2.56	0.40
1:K:811:TYR:HD2	1:K:814:TYR:HB2	1.86	0.40
1:K:948:GLY:HA2	6:U:32:ASN:CA	2.52	0.40
1:L:169:ASN:HD22	1:L:169:ASN:C	2.24	0.40
1:L:388:VAL:O	1:L:389:ASP:C	2.58	0.40
1:L:731:TRP:O	1:L:732:PRO:C	2.58	0.40
2:N:104:SER:HB2	2:N:513:VAL:HG13	2.04	0.40
2:N:248:LEU:HD23	2:N:251:LEU:HB3	2.03	0.40
2:N:395:ASP:C	2:N:396:PRO:O	2.60	0.40
4:M:98:LEU:O	4:M:100:ARG:N	2.53	0.40
4:M:116:LEU:C	4:M:118:THR:H	2.24	0.40
4:M:138:LEU:CD2	4:M:170:VAL:HB	2.51	0.40
4:M:197:VAL:O	6:U:199:ASN:HB2	2.20	0.40
5:Q:35:THR:N	5:Q:43:PRO:CG	2.85	0.40
5:Q:45:ASN:O	5:Q:46:SER:OG	2.35	0.40
6:U:209:PRO:HB3	6:U:212:PHE:CD1	2.24	0.40
7:2:16:ARG:HH11	7:2:16:ARG:CG	2.29	0.40
7:2:17:PRO:CG	7:2:22:TRP:CH2	3.04	0.40
7:4:17:PRO:CG	7:4:22:TRP:CE2	2.86	0.40
7:6:18:PHE:C	7:6:20:GLY:H	2.24	0.40
7:6:18:PHE:HB3	7:6:19:MET:HE3	2.03	0.40
7:9:15:THR:HG23	7:9:16:ARG:N	2.36	0.40
1:A:194:GLN:OE1	1:A:194:GLN:HA	2.21	0.40
1:A:478:ALA:HA	1:A:514:VAL:HG11	2.02	0.40
1:A:725:PHE:CE1	1:E:951:THR:HG21	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:940:TYR:HB2	1:A:950:ALA:HB2	2.02	0.40
1:B:241:LYS:HZ3	1:B:256:ILE:CG1	2.33	0.40
1:B:339:THR:HG21	2:N:486:VAL:HB	2.02	0.40
1:B:682:ARG:NH1	1:B:910:MET:CB	2.81	0.40
1:B:682:ARG:CZ	1:B:910:MET:HE3	2.51	0.40
1:C:93:VAL:HG23	1:C:622:MET:HE3	2.03	0.40
1:C:140:LYS:H	1:C:140:LYS:HG2	1.55	0.40
1:C:224:PRO:HG3	1:C:316:SER:OG	2.19	0.40
1:C:256:ILE:CG2	1:C:284:TYR:HD2	2.33	0.40
1:C:334:MET:O	1:C:335:TYR:C	2.60	0.40
1:C:487:TYR:CA	1:C:507:ARG:HH12	2.34	0.40
1:C:633:MET:O	1:C:639:HIS:CE1	2.75	0.40
1:C:769:GLN:HE22	1:C:872:ARG:H	1.69	0.40
1:D:28:LEU:HD22	1:D:28:LEU:O	2.21	0.40
1:D:59:ASP:OD1	1:D:59:ASP:N	2.54	0.40
1:D:149:GLN:O	1:D:150:GLU:OE1	2.35	0.40
1:D:398:ILE:HD11	1:D:526:LEU:HB2	2.04	0.40
1:D:721:VAL:HG23	1:D:905:PHE:CD1	2.56	0.40
1:D:922:VAL:HG12	1:D:944:PRO:HG2	2.04	0.40
1:E:25:SER:O	1:E:27:GLY:N	2.55	0.40
1:E:64:LEU:CD1	1:F:736:ARG:HD2	2.50	0.40
1:E:81:LYS:HA	1:E:584:ASN:HA	2.04	0.40
1:E:246:ASN:HD21	1:E:249:GLU:C	2.23	0.40
1:E:255:ASP:O	1:E:256:ILE:CG1	2.69	0.40
1:E:329:ASN:HD21	1:E:377:ARG:NH2	2.18	0.40
1:E:575:LEU:CB	1:E:576:PRO:CD	2.95	0.40
1:F:2:ALA:CA	1:F:4:PRO:HD2	2.52	0.40
1:F:255:ASP:C	1:F:256:ILE:HG13	2.39	0.40
1:F:298:VAL:HG22	1:F:298:VAL:O	2.22	0.40
1:F:410:TYR:CE2	1:F:461:GLU:HG2	2.57	0.40
1:F:486:LYS:H	1:F:486:LYS:HG3	1.60	0.40
1:F:517:TYR:O	1:F:520:ILE:HG13	2.21	0.40
1:F:873:ILE:H	1:F:873:ILE:HG13	1.66	0.40
1:G:126:PRO:HD2	1:H:828:PHE:CZ	2.56	0.40
1:G:222:MET:H	1:G:222:MET:HG3	1.32	0.40
1:G:275:GLU:O	1:G:276:GLU:HG3	2.21	0.40
1:G:282:ILE:HD13	1:G:282:ILE:O	2.21	0.40
1:G:576:PRO:HD2	1:G:635:ARG:HH21	1.86	0.40
1:G:600:ASP:OD2	1:G:700:VAL:CB	2.70	0.40
1:G:747:ARG:O	1:G:747:ARG:CD	2.69	0.40
1:G:853:GLN:CB	1:I:111:PRO:HB3	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:161:ALA:HB1	1:H:198:GLN:HG2	2.03	0.40
1:H:267:SER:HB2	1:H:268:PRO:HD2	2.03	0.40
1:H:524:TRP:CE2	1:H:803:ARG:CG	3.03	0.40
1:H:572:LEU:CG	1:H:573:LEU:N	2.70	0.40
1:H:577:GLY:HA2	1:H:933:ARG:HH12	1.85	0.40
1:H:838:GLN:HA	1:I:456:ASN:ND2	2.30	0.40
1:H:892:MET:CB	1:H:896:ASN:ND2	2.83	0.40
1:I:33:ARG:NH1	7:6:12:ARG:HD3	2.37	0.40
1:I:69:VAL:HG22	1:I:70:PRO:N	2.36	0.40
1:I:173:LEU:HB2	1:I:185:LYS:CE	2.51	0.40
1:I:370:LEU:HD13	1:I:646:TYR:CE2	2.56	0.40
1:I:422:THR:HA	1:I:451:GLN:CA	2.52	0.40
1:I:517:TYR:CA	1:I:520:ILE:CD1	2.70	0.40
1:I:831:TYR:CE1	1:I:832:LEU:CD1	3.03	0.40
1:J:96:MET:CG	1:J:569:ILE:O	2.67	0.40
1:J:281:ILE:O	1:J:281:ILE:HG12	2.21	0.40
1:J:437:GLU:O	1:J:438:SER:HB3	2.20	0.40
1:J:663:VAL:O	1:J:663:VAL:HG22	2.21	0.40
1:K:68:PHE:HB2	1:K:615:LEU:HB2	2.02	0.40
1:K:334:MET:HE2	1:K:562:VAL:CG2	2.51	0.40
1:K:445:ALA:CB	1:L:153:VAL:CG2	2.88	0.40
1:K:675:PHE:O	1:K:875:PHE:HD2	2.05	0.40
1:L:90:ASP:O	1:L:92:ARG:HG3	2.20	0.40
1:L:359:GLN:O	1:L:359:GLN:HG3	2.20	0.40
1:L:397:ILE:HG13	1:L:799:GLN:NE2	2.36	0.40
1:L:566:PHE:O	1:L:570:LYS:HB2	2.20	0.40
1:L:648:SER:O	1:L:922:VAL:N	2.52	0.40
1:L:811:TYR:HD2	1:L:814:TYR:CB	2.34	0.40
2:N:200:GLY:HA2	2:N:236:LEU:HD12	2.03	0.40
2:N:210:LEU:HD23	2:N:225:THR:HG21	2.03	0.40
4:M:107:THR:CG2	4:M:108:ASN:N	2.84	0.40
4:M:108:ASN:O	4:M:112:ASN:ND2	2.55	0.40
4:M:138:LEU:HG	4:M:170:VAL:CG1	2.48	0.40
5:P:33:GLY:C	5:P:34:SER:O	2.56	0.40
5:Q:42:LEU:H	5:Q:43:PRO:HD3	1.85	0.40
5:R:48:THR:O	5:R:48:THR:HG23	2.22	0.40
5:S:30:ASN:CA	5:S:46:SER:HB3	2.41	0.40
6:V:50:HIS:O	6:V:52:ASN:N	2.54	0.40
6:V:57:GLU:O	6:V:61:VAL:HB	2.21	0.40
7:9:17:PRO:HG2	7:9:22:TRP:CE3	2.55	0.40
1:A:12:TYR:CD1	1:B:927:ARG:NH2	2.90	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:166:ASN:C	1:A:166:ASN:ND2	2.73	0.40
1:A:198:GLN:O	1:A:199:VAL:O	2.39	0.40
1:A:774:TYR:OH	1:A:795:PHE:HB3	2.21	0.40
1:A:853:GLN:N	1:C:111:PRO:HB3	2.37	0.40
1:B:3:THR:CB	1:B:4:PRO:HD2	2.51	0.40
1:B:88:VAL:HG13	1:B:576:PRO:O	2.20	0.40
1:B:114:LYS:HE3	1:B:116:TYR:O	2.21	0.40
1:B:119:THR:CG2	1:B:226:TYR:CE1	3.04	0.40
1:B:131:ASN:N	1:B:131:ASN:HD22	2.18	0.40
1:B:135:TRP:CE3	1:B:308:SER:HA	2.55	0.40
1:B:207:ASN:HD22	1:B:207:ASN:HA	1.55	0.40
1:B:297:VAL:O	1:B:297:VAL:CG2	2.69	0.40
1:B:362:ASN:ND2	1:B:365:LEU:CB	2.78	0.40
1:B:676:ARG:NE	1:B:921:GLU:HB3	2.35	0.40
1:B:723:ILE:HA	1:B:903:MET:CB	2.51	0.40
1:B:819:LEU:N	1:B:820:PRO:CD	2.85	0.40
1:B:851:ILE:HD13	1:B:851:ILE:N	2.34	0.40
1:C:525:SER:OG	1:C:865:LEU:HD12	2.21	0.40
1:C:724:MET:SD	1:C:729:VAL:CG1	3.01	0.40
1:D:121:TYR:CD1	1:D:121:TYR:N	2.90	0.40
1:D:139:GLU:OE1	1:D:152:ASP:HB2	2.22	0.40
1:D:244:PRO:O	1:D:245:VAL:C	2.59	0.40
1:D:341:ASN:HB3	1:D:584:ASN:ND2	2.35	0.40
1:D:460:MET:HE2	1:D:460:MET:HB3	1.73	0.40
1:D:520:ILE:N	1:D:520:ILE:CD1	2.70	0.40
1:D:546:ARG:NH2	1:D:594:GLN:OE1	2.54	0.40
1:D:684:LYS:O	1:D:688:THR:HG22	2.20	0.40
1:E:69:VAL:HG12	1:E:614:ASN:HB3	2.03	0.40
1:E:173:LEU:O	1:E:173:LEU:CG	2.66	0.40
1:E:193:PHE:CZ	1:E:212:GLY:CA	2.72	0.40
1:E:214:ARG:HG2	1:E:214:ARG:NH1	2.35	0.40
1:E:233:THR:O	1:F:815:LYS:HE2	2.21	0.40
1:E:437:GLU:OE1	1:E:437:GLU:CA	2.68	0.40
1:E:533:ASN:HB2	1:E:713:TYR:CZ	2.56	0.40
1:E:550:LEU:HD23	1:E:556:VAL:HG21	2.02	0.40
1:E:730:SER:CB	1:E:732:PRO:CD	2.90	0.40
1:F:651:ASN:HD22	1:F:651:ASN:H	1.70	0.40
1:F:756:VAL:HG21	1:F:766:PHE:CD1	2.56	0.40
1:F:893:LEU:HD22	1:J:949:ASN:C	2.42	0.40
1:G:61:SER:HA	1:H:734:ASN:ND2	2.35	0.40
1:G:144:THR:O	1:G:144:THR:HG23	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:211:TYR:CE1	1:I:454:LYS:CD	2.89	0.40
1:G:239:GLN:OE1	1:H:845:ASN:HB3	2.21	0.40
1:G:314:GLN:N	1:I:203:ASN:HD21	2.19	0.40
1:G:634:LEU:HD23	1:G:634:LEU:HA	1.84	0.40
1:G:849:PRO:HD3	1:I:229:PHE:CZ	2.57	0.40
1:G:941:LEU:CD2	1:I:13:MET:HG3	2.50	0.40
1:H:176:THR:HG22	1:H:177:ASP:H	1.86	0.40
1:H:198:GLN:CD	1:I:839:GLY:N	2.74	0.40
1:H:299:TYR:CD1	1:H:300:LYS:N	2.89	0.40
1:H:417:THR:HG21	1:I:159:VAL:CG2	2.51	0.40
1:H:444:ASP:C	1:I:152:ASP:HA	2.41	0.40
1:H:569:ILE:O	1:H:570:LYS:C	2.59	0.40
1:H:582:GLU:C	1:H:582:GLU:CD	2.80	0.40
1:I:21:SER:HB2	7:6:11:PRO:HG3	2.03	0.40
1:I:106:VAL:HA	1:I:557:PRO:HA	2.02	0.40
1:I:515:ASP:O	1:I:518:ILE:HG23	2.21	0.40
1:I:680:PHE:CD1	1:I:680:PHE:N	2.89	0.40
1:I:723:ILE:O	1:I:724:MET:HB2	2.21	0.40
1:I:910:MET:CE	1:I:912:GLU:HB2	2.51	0.40
1:I:922:VAL:HG12	1:I:944:PRO:HG2	2.02	0.40
1:J:198:GLN:NE2	1:K:840:GLN:N	2.69	0.40
1:J:260:TYR:HB2	1:L:426:VAL:HG22	2.03	0.40
1:J:276:GLU:CA	1:L:440:TRP:CH2	3.04	0.40
1:J:836:MET:SD	1:J:837:ARG:HG3	2.61	0.40
1:K:19:ASP:HB2	1:K:48:PRO:HD2	2.01	0.40
1:K:71:VAL:O	1:K:72:ASP:HB3	2.22	0.40
1:K:85:THR:HG22	1:K:580:THR:HA	2.04	0.40
1:K:135:TRP:HZ3	1:K:137:THR:HG23	1.86	0.40
1:K:260:TYR:HB3	1:K:280:ASP:OD2	2.21	0.40
1:K:623:ALA:O	1:K:626:THR:HG23	2.22	0.40
1:K:712:PHE:CD2	1:K:712:PHE:N	2.88	0.40
1:L:157:PHE:CE1	1:L:312:LEU:HD23	2.51	0.40
1:L:236:LYS:C	1:L:238:GLY:H	2.24	0.40
1:L:423:TYR:CD1	1:L:452:ILE:HG13	2.56	0.40
1:L:773:HIS:HB2	1:L:774:TYR:CE2	2.55	0.40
1:L:850:LEU:HD23	1:L:850:LEU:HA	1.89	0.40
1:L:878:ASN:O	1:L:879:PHE:HB2	2.22	0.40
2:N:220:MET:C	2:N:222:GLY:H	2.25	0.40
5:P:16:TYR:HD1	5:Q:16:TYR:CD1	2.39	0.40
5:Q:24:TRP:CD1	5:Q:24:TRP:C	2.95	0.40
5:Q:39:ARG:HG3	5:Q:41:VAL:CG2	2.50	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:S:36:VAL:HB	5:S:39:ARG:HB3	2.03	0.40
6:V:62:THR:HG23	6:V:190:GLU:HB3	1.95	0.40
6:V:90:LEU:O	6:V:90:LEU:HG	2.21	0.40
1:A:199:VAL:HG22	1:A:200:GLY:N	2.37	0.40
1:A:202:GLU:H	1:A:202:GLU:HG3	1.45	0.40
1:A:371:LEU:HD23	1:A:371:LEU:HA	1.91	0.40
1:A:396:ARG:NH1	1:A:865:LEU:HD11	2.37	0.40
1:A:838:GLN:HG3	1:C:196:GLU:O	2.20	0.40
1:A:922:VAL:HG12	1:A:944:PRO:CB	2.46	0.40
1:B:4:PRO:HB3	1:B:9:GLN:HE22	1.86	0.40
1:B:13:MET:HB2	1:B:15:ILE:HG13	2.04	0.40
1:B:25:SER:C	1:B:27:GLY:H	2.25	0.40
1:B:132:PRO:HA	1:B:157:PHE:O	2.22	0.40
1:B:137:THR:OG1	1:B:138:LYS:N	2.51	0.40
1:B:202:GLU:CG	1:C:299:TYR:HE2	2.05	0.40
1:B:372:ASP:OD1	1:B:791:MET:HB3	2.21	0.40
1:B:445:ALA:HB2	1:C:153:VAL:H	1.86	0.40
1:B:575:LEU:HB3	1:B:576:PRO:HD3	1.96	0.40
1:B:636:ASN:HD22	4:M:16:SER:HA	1.85	0.40
1:B:811:TYR:HD1	1:B:857:PRO:CD	2.14	0.40
1:C:377:ARG:O	1:C:377:ARG:HG3	2.21	0.40
1:C:622:MET:O	1:C:623:ALA:C	2.60	0.40
1:C:639:HIS:CG	1:C:639:HIS:O	2.75	0.40
1:C:801:MET:SD	1:C:863:LYS:O	2.79	0.40
1:C:827:GLY:N	1:C:839:GLY:C	2.71	0.40
1:D:410:TYR:CD1	1:D:410:TYR:N	2.89	0.40
1:D:474:TYR:HA	1:D:478:ALA:CB	2.51	0.40
1:D:565:LYS:O	1:D:565:LYS:HG2	2.22	0.40
1:D:811:TYR:HD2	1:D:814:TYR:CA	2.34	0.40
1:E:194:GLN:O	1:E:197:PRO:HG2	2.19	0.40
1:E:230:ALA:HB3	1:E:239:GLN:HE22	1.87	0.40
1:E:284:TYR:CD1	1:E:284:TYR:N	2.89	0.40
1:E:650:ALA:HB3	1:E:920:PHE:HB2	2.02	0.40
1:F:76:THR:CG2	1:F:79:LEU:HD12	2.50	0.40
1:F:96:MET:CG	1:F:572:LEU:O	2.69	0.40
1:F:225:CYS:O	1:F:227:GLY:N	2.54	0.40
1:F:483:ASP:OD1	1:F:507:ARG:NH1	2.55	0.40
1:F:696:ASP:OD1	1:F:697:PRO:N	2.54	0.40
1:F:756:VAL:HG11	1:F:766:PHE:CB	2.52	0.40
1:F:860:THR:OG1	1:F:861:GLN:N	2.54	0.40
1:G:104:ARG:NH1	1:H:753:GLY:CA	2.84	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:134:GLN:O	1:G:135:TRP:HB3	2.21	0.40
1:G:220:THR:CG2	1:G:290:LEU:HD23	2.51	0.40
1:G:445:ALA:CA	1:H:152:ASP:HB2	2.52	0.40
1:G:533:ASN:HA	1:G:534:PRO:HD2	1.98	0.40
1:G:668:PRO:O	1:G:900:ALA:HB2	2.22	0.40
1:G:713:TYR:HA	1:G:867:ASP:HB2	2.03	0.40
1:G:731:TRP:CZ2	1:G:874:PRO:O	2.75	0.40
1:G:914:THR:HB	1:G:915:LEU:H	1.70	0.40
1:H:235:GLU:C	1:H:237:GLY:N	2.75	0.40
1:H:239:GLN:O	1:H:241:LYS:HG2	2.22	0.40
1:H:391:TYR:HD1	1:H:391:TYR:O	2.04	0.40
1:H:451:GLN:H	1:H:451:GLN:HG2	1.51	0.40
1:H:731:TRP:C	1:H:731:TRP:CD2	2.72	0.40
1:H:829:THR:HG23	1:H:830:GLY:O	2.22	0.40
1:H:941:LEU:CD2	6:V:106:VAL:HG22	2.51	0.40
1:I:110:GLY:O	1:I:112:SER:N	2.54	0.40
1:I:151:LYS:HZ3	1:I:218:LYS:HD3	1.87	0.40
1:I:546:ARG:CG	1:I:546:ARG:O	2.70	0.40
1:I:601:LEU:CD2	1:I:702:SER:HB2	2.51	0.40
1:I:656:ILE:C	1:I:657:PRO:O	2.59	0.40
1:I:670:ARG:H	1:I:670:ARG:HG3	1.78	0.40
1:I:686:LYS:O	1:I:686:LYS:CG	2.69	0.40
1:I:698:TYR:O	1:I:700:VAL:N	2.55	0.40
1:I:738:LEU:HD12	1:I:738:LEU:HA	1.64	0.40
1:J:19:ASP:O	1:J:23:TYR:CD2	2.75	0.40
1:J:188:TYR:C	1:J:192:THR:OG1	2.59	0.40
1:J:191:LYS:CA	1:J:194:GLN:HG3	2.44	0.40
1:J:276:GLU:O	1:L:440:TRP:HH2	2.00	0.40
1:K:25:SER:OG	1:K:26:PRO:N	2.54	0.40
1:K:204:TRP:CH2	1:L:130:PRO:HG3	2.57	0.40
1:K:381:PHE:CD1	1:L:795:PHE:HE1	2.38	0.40
1:K:396:ARG:C	1:K:396:ARG:CD	2.90	0.40
1:K:450:ASN:ND2	1:L:156:THR:N	2.69	0.40
1:K:513:LEU:HD12	1:K:513:LEU:HA	1.94	0.40
1:K:828:PHE:HB3	1:L:412:PHE:CZ	2.57	0.40
2:N:119:PRO:HG2	2:N:122:ASN:CB	2.42	0.40
4:M:138:LEU:HD23	4:M:170:VAL:HB	2.04	0.40
4:M:327:VAL:O	4:M:327:VAL:CG1	2.68	0.40
5:R:72:MET:C	5:R:75:THR:CG2	2.90	0.40
7:2:17:PRO:HG2	7:2:22:TRP:CE2	2.56	0.40
1:A:1:MET:O	1:A:1:MET:HG2	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:64:LEU:O	1:A:618:THR:HG23	2.22	0.40
1:A:104:ARG:O	1:A:611:ASP:HB3	2.22	0.40
1:A:107:LEU:HB2	1:A:558:PHE:CD2	2.57	0.40
1:A:196:GLU:H	1:A:197:PRO:HD2	1.87	0.40
1:A:214:ARG:H	1:B:840:GLN:HE22	1.69	0.40
1:A:288:VAL:CG2	1:A:289:ASN:H	2.33	0.40
1:A:323:TYR:HB3	1:A:547:SER:OG	2.21	0.40
1:A:411:CYS:HB3	1:A:460:MET:O	2.21	0.40
1:A:427:LYS:C	1:A:428:ILE:HG22	2.42	0.40
1:A:564:GLN:OE1	1:A:581:TYR:OH	2.35	0.40
1:A:890:GLN:O	1:A:894:TYR:HE1	2.04	0.40
1:B:27:GLY:HA3	1:C:633:MET:HE2	2.04	0.40
1:B:84:PHE:CD1	1:B:615:LEU:HD12	2.56	0.40
1:B:119:THR:HG22	1:B:226:TYR:CE1	2.56	0.40
1:B:380:TYR:CD2	1:B:545:TYR:CD2	3.10	0.40
1:B:485:TYR:CG	1:B:513:LEU:HD21	2.56	0.40
1:B:917:TYR:CZ	1:B:919:LEU:HD21	2.57	0.40
1:B:924:ASP:OD1	1:B:924:ASP:N	2.54	0.40
1:C:70:PRO:HD2	1:C:73:ARG:HH21	1.85	0.40
1:C:103:ILE:HG23	1:C:610:PHE:CD2	2.37	0.40
1:C:121:TYR:C	1:C:227:GLY:HA2	2.42	0.40
1:C:191:LYS:O	1:C:191:LYS:CD	2.69	0.40
1:C:544:ARG:HB2	1:C:544:ARG:NH1	2.34	0.40
1:C:548:MET:C	1:C:550:LEU:H	2.25	0.40
1:C:571:ASN:O	1:C:572:LEU:C	2.59	0.40
1:C:668:PRO:HG3	1:K:664:PRO:HG3	2.03	0.40
1:C:731:TRP:CZ2	1:C:875:PHE:CE1	3.05	0.40
1:C:893:LEU:CG	6:U:227:ASP:HB2	2.34	0.40
1:D:401:HIS:HE1	1:F:544:ARG:HD3	1.76	0.40
1:D:427:LYS:CB	1:D:441:GLU:CD	2.89	0.40
1:D:738:LEU:HA	1:F:63:ARG:NH1	2.37	0.40
1:E:49:THR:HB	1:F:884:ALA:CB	2.51	0.40
1:E:300:LYS:CG	1:E:301:PRO:HD2	2.47	0.40
1:E:319:ASN:HB3	1:E:505:ASN:ND2	2.34	0.40
1:E:719:LYS:HD2	1:E:906:GLU:OE2	2.22	0.40
1:E:720:LYS:HB2	1:E:744:GLU:OE1	2.22	0.40
1:E:823:HIS:O	1:E:844:ALA:CB	2.68	0.40
1:F:94:LEU:HG	1:F:95:ASP:N	2.36	0.40
1:F:126:PRO:O	1:F:127:LYS:C	2.60	0.40
1:F:355:VAL:HG13	1:F:566:PHE:CE1	2.56	0.40
1:F:358:LEU:HD13	1:F:942:ARG:HH21	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:398:ILE:HG21	1:F:526:LEU:CD2	2.45	0.40
1:F:533:ASN:OD1	1:F:533:ASN:C	2.59	0.40
1:F:598:GLY:HA2	1:F:703:GLY:H	1.86	0.40
1:F:885:LEU:HD23	1:F:885:LEU:HA	1.85	0.40
1:G:294:ASP:HB2	1:G:319:ASN:HD21	1.87	0.40
1:G:701:TYR:OH	1:G:704:SER:N	2.55	0.40
1:G:923:PHE:O	1:G:925:VAL:N	2.55	0.40
1:H:13:MET:HB3	1:I:925:VAL:HG21	2.03	0.40
1:H:75:ALA:CB	1:H:80:TYR:CD1	2.64	0.40
1:H:113:PHE:CG	1:H:324:ILE:HD12	2.53	0.40
1:H:132:PRO:HD3	1:I:841:PRO:O	2.22	0.40
1:H:222:MET:CG	1:H:307:SER:CB	2.90	0.40
1:H:542:GLY:O	1:H:544:ARG:N	2.54	0.40
1:H:630:LEU:O	1:H:630:LEU:CD1	2.67	0.40
1:H:752:GLU:O	1:H:752:GLU:HG2	2.20	0.40
1:H:771:LEU:O	1:H:775:ASN:N	2.54	0.40
1:H:797:ASN:HD22	1:H:797:ASN:H	1.70	0.40
1:H:804:GLN:HB3	1:H:860:THR:HG22	2.04	0.40
1:H:804:GLN:CG	1:H:860:THR:HG22	2.50	0.40
1:H:811:TYR:HE1	1:H:857:PRO:HD2	1.83	0.40
1:H:950:ALA:CB	1:J:892:MET:CE	2.98	0.40
1:I:430:ASN:OD1	1:I:430:ASN:O	2.39	0.40
1:I:444:ASP:CG	1:I:450:ASN:HD21	2.22	0.40
1:I:646:TYR:CD1	1:I:646:TYR:C	2.95	0.40
1:I:682:ARG:NE	1:I:907:VAL:CG2	2.68	0.40
1:I:696:ASP:OD1	1:I:696:ASP:O	2.39	0.40
1:I:811:TYR:HD2	1:I:814:TYR:HB2	1.87	0.40
1:J:63:ARG:HA	1:K:735:ASP:O	2.21	0.40
1:J:116:TYR:CE2	1:K:520:ILE:HD12	2.57	0.40
1:J:127:LYS:HE3	1:J:127:LYS:HB2	1.88	0.40
1:J:150:GLU:HB2	1:J:152:ASP:OD1	2.22	0.40
1:J:167:ILE:HG12	1:J:168:THR:N	2.35	0.40
1:J:379:ARG:HG3	1:J:379:ARG:NH1	2.35	0.40
1:J:549:LEU:HD11	1:K:758:GLN:OE1	2.22	0.40
1:K:637:ASP:C	1:K:639:HIS:N	2.74	0.40
1:K:680:PHE:CD1	1:K:680:PHE:N	2.76	0.40
1:K:695:PHE:CD1	1:K:696:ASP:N	2.89	0.40
1:K:733:GLY:HA3	1:K:736:ARG:CG	2.51	0.40
1:K:811:TYR:CZ	1:K:856:VAL:HG11	2.57	0.40
1:L:176:THR:HG23	1:L:182:ASN:O	2.22	0.40
1:L:269:PRO:CA	1:L:274:GLY:O	2.68	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:494:LEU:CB	1:L:495:PRO:HD2	2.46	0.40
1:L:608:VAL:H	1:L:608:VAL:HG12	1.63	0.40
1:L:670:ARG:CG	1:L:671:ASN:N	2.84	0.40
1:L:706:PRO:HA	1:L:711:THR:HG22	2.03	0.40
2:N:163:LEU:HD21	2:N:177:MET:CA	2.52	0.40
4:M:49:GLN:O	4:M:49:GLN:HG2	2.21	0.40
4:M:110:GLN:O	4:M:113:LEU:N	2.54	0.40
4:M:232:LEU:O	4:M:232:LEU:HD12	2.22	0.40
4:M:315:GLU:H	4:M:315:GLU:HG3	1.68	0.40
4:M:349:MET:O	4:M:353:MET:HA	2.22	0.40
5:Q:74:ALA:HA	5:Q:77:LEU:CB	2.51	0.40
6:U:2:SER:OG	6:U:200:PRO:CD	2.70	0.40
6:V:64:THR:HG21	6:V:78:LEU:HD13	2.04	0.40
6:V:91:LEU:HD21	6:V:169:LEU:HD22	2.04	0.40
7:7:9:LEU:C	7:7:11:PRO:HD3	2.42	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	947/952 (100%)	670 (71%)	190 (20%)	87 (9%)	1 9
1	B	947/952 (100%)	714 (75%)	173 (18%)	60 (6%)	1 17
1	C	944/952 (99%)	646 (68%)	207 (22%)	91 (10%)	0 8
1	D	945/952 (99%)	683 (72%)	195 (21%)	67 (7%)	1 15
1	E	945/952 (99%)	705 (75%)	170 (18%)	70 (7%)	1 13
1	F	948/952 (100%)	681 (72%)	178 (19%)	89 (9%)	0 9
1	G	945/952 (99%)	684 (72%)	194 (20%)	67 (7%)	1 15
1	H	945/952 (99%)	654 (69%)	216 (23%)	75 (8%)	1 12

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
1	I	947/952 (100%)	669 (71%)	192 (20%)	86 (9%)	1 9
1	J	949/952 (100%)	672 (71%)	206 (22%)	71 (8%)	1 13
1	K	949/952 (100%)	718 (76%)	160 (17%)	71 (8%)	1 13
1	L	945/952 (99%)	638 (68%)	235 (25%)	72 (8%)	1 13
2	N	469/497 (94%)	366 (78%)	76 (16%)	27 (6%)	1 19
3	O	17/19 (90%)	13 (76%)	3 (18%)	1 (6%)	1 18
4	M	372/388 (96%)	281 (76%)	63 (17%)	28 (8%)	1 13
5	P	116/134 (87%)	84 (72%)	25 (22%)	7 (6%)	1 18
5	Q	116/134 (87%)	89 (77%)	22 (19%)	5 (4%)	2 24
5	R	132/134 (98%)	97 (74%)	26 (20%)	9 (7%)	1 16
5	S	117/134 (87%)	83 (71%)	26 (22%)	8 (7%)	1 16
6	U	176/227 (78%)	131 (74%)	32 (18%)	13 (7%)	1 13
6	V	176/227 (78%)	126 (72%)	36 (20%)	14 (8%)	1 12
7	1	29/31 (94%)	20 (69%)	6 (21%)	3 (10%)	0 7
7	2	25/31 (81%)	15 (60%)	7 (28%)	3 (12%)	0 5
7	3	24/31 (77%)	12 (50%)	7 (29%)	5 (21%)	0 1
7	4	25/31 (81%)	13 (52%)	6 (24%)	6 (24%)	0 0
7	5	24/31 (77%)	14 (58%)	9 (38%)	1 (4%)	3 25
7	6	25/31 (81%)	15 (60%)	3 (12%)	7 (28%)	0 0
7	7	24/31 (77%)	13 (54%)	5 (21%)	6 (25%)	0 0
7	8	29/31 (94%)	20 (69%)	6 (21%)	3 (10%)	0 7
7	9	24/31 (77%)	15 (62%)	4 (17%)	5 (21%)	0 1
All	All	13276/13597 (98%)	9541 (72%)	2678 (20%)	1057 (8%)	2 12

All (1057) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	20	ALA
1	A	89	GLY
1	A	151	LYS
1	A	199	VAL
1	A	248	GLY
1	A	267	SER
1	A	280	ASP

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Mol	Chain	Res	Type
1	A	331	VAL
1	A	343	GLY
1	A	430	ASN
1	A	445	ALA
1	A	448	ARG
1	A	449	GLN
1	A	456	ASN
1	A	462	ILE
1	A	516	ALA
1	A	733	GLY
1	A	749	VAL
1	A	794	PHE
1	A	795	PHE
1	A	827	GLY
1	A	896	ASN
1	A	907	VAL
1	A	931	PRO
1	B	21	SER
1	B	36	ASP
1	B	37	THR
1	B	127	LYS
1	B	154	THR
1	B	186	ASP
1	B	207	ASN
1	B	243	LYS
1	B	248	GLY
1	B	274	GLY
1	B	306	ASN
1	B	348	GLN
1	B	648	SER
1	B	749	VAL
1	B	791	MET
1	B	831	TYR
1	B	836	MET
1	B	930	GLN
1	C	217	LYS
1	C	221	LYS
1	C	235	GLU
1	C	245	VAL
1	C	247	GLU
1	C	335	TYR
1	C	382	SER

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Mol	Chain	Res	Type
1	C	440	TRP
1	C	453	CYS
1	C	501	TYR
1	C	605	GLY
1	C	608	VAL
1	C	677	GLY
1	C	699	PHE
1	C	749	VAL
1	C	760	ASN
1	C	813	ASP
1	C	827	GLY
1	C	836	MET
1	C	853	GLN
1	C	943	THR
1	D	7	MET
1	D	17	GLY
1	D	20	ALA
1	D	146	GLY
1	D	266	GLY
1	D	290	LEU
1	D	496	ALA
1	D	516	ALA
1	D	599	ASN
1	D	710	GLY
1	D	730	SER
1	D	753	GLY
1	D	754	TYR
1	D	809	ILE
1	D	918	LEU
1	E	153	VAL
1	E	201	GLU
1	E	235	GLU
1	E	274	GLY
1	E	398	ILE
1	E	516	ALA
1	E	546	ARG
1	E	627	ALA
1	E	637	ASP
1	E	736	ARG
1	E	760	ASN
1	E	886	THR
1	E	943	THR

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Mol	Chain	Res	Type
1	F	89	GLY
1	F	110	GLY
1	F	152	ASP
1	F	174	LEU
1	F	206	GLU
1	F	217	LYS
1	F	235	GLU
1	F	275	GLU
1	F	281	ILE
1	F	396	ARG
1	F	399	GLU
1	F	434	GLY
1	F	446	ILE
1	F	453	CYS
1	F	479	LEU
1	F	483	ASP
1	F	541	ALA
1	F	608	VAL
1	F	756	VAL
1	F	791	MET
1	F	794	PHE
1	F	827	GLY
1	G	17	GLY
1	G	94	LEU
1	G	127	LYS
1	G	152	ASP
1	G	170	GLN
1	G	188	TYR
1	G	225	CYS
1	G	247	GLU
1	G	429	THR
1	G	437	GLU
1	G	444	ASP
1	G	516	ALA
1	G	733	GLY
1	G	760	ASN
1	H	44	LYS
1	H	56	VAL
1	H	191	LYS
1	H	192	THR
1	H	197	PRO
1	H	199	VAL

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Mol	Chain	Res	Type
1	H	208	GLU
1	H	331	VAL
1	H	388	VAL
1	H	403	VAL
1	H	404	GLU
1	H	541	ALA
1	H	543	LEU
1	H	634	LEU
1	H	699	PHE
1	H	745	ILE
1	H	794	PHE
1	H	943	THR
1	I	86	LEU
1	I	89	GLY
1	I	199	VAL
1	I	204	TRP
1	I	277	TYR
1	I	403	VAL
1	I	546	ARG
1	I	578	SER
1	I	675	PHE
1	I	694	GLY
1	I	753	GLY
1	I	812	LYS
1	I	855	ALA
1	I	933	ARG
1	I	939	VAL
1	I	943	THR
1	J	127	LYS
1	J	174	LEU
1	J	199	VAL
1	J	203	ASN
1	J	253	ASP
1	J	301	PRO
1	J	348	GLN
1	J	351	GLN
1	J	395	VAL
1	J	496	ALA
1	J	497	ASN
1	J	733	GLY
1	J	753	GLY
1	J	943	THR

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Mol	Chain	Res	Type
1	K	89	GLY
1	K	156	THR
1	K	195	PRO
1	K	199	VAL
1	K	200	GLY
1	K	239	GLN
1	K	245	VAL
1	K	277	TYR
1	K	292	THR
1	K	302	GLY
1	K	344	VAL
1	K	479	LEU
1	K	483	ASP
1	K	516	ALA
1	K	597	LEU
1	K	603	VAL
1	K	605	GLY
1	K	627	ALA
1	K	673	ALA
1	K	730	SER
1	K	760	ASN
1	K	856	VAL
1	K	941	LEU
1	K	943	THR
1	L	63	ARG
1	L	127	LYS
1	L	235	GLU
1	L	245	VAL
1	L	266	GLY
1	L	457	VAL
1	L	516	ALA
1	L	560	ILE
1	L	673	ALA
1	L	788	LYS
1	L	863	LYS
2	N	75	HIS
2	N	123	GLU
2	N	124	TYR
2	N	277	PRO
2	N	396	PRO
2	N	508	ILE
3	O	14	VAL

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Mol	Chain	Res	Type
4	M	134	GLY
4	M	182	GLY
4	M	284	GLY
4	M	385	ASN
4	M	389	LEU
5	P	42	LEU
5	P	55	GLY
5	Q	35	THR
5	Q	57	SER
5	R	11	GLY
5	R	19	THR
5	R	29	GLN
5	S	9	GLU
5	S	41	VAL
5	S	55	GLY
6	U	4	GLU
6	U	72	ARG
6	U	203	GLY
6	V	44	VAL
7	1	26	GLY
7	2	19	MET
7	4	9	LEU
7	4	10	ALA
7	4	25	ILE
7	7	5	ASN
7	8	10	ALA
1	A	2	ALA
1	A	9	GLN
1	A	29	VAL
1	A	36	ASP
1	A	56	VAL
1	A	72	ASP
1	A	153	VAL
1	A	170	GLN
1	A	173	LEU
1	A	245	VAL
1	A	388	VAL
1	A	425	GLY
1	A	426	VAL
1	A	473	LEU
1	A	646	TYR
1	A	648	SER

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Mol	Chain	Res	Type
1	A	691	LEU
1	A	747	ARG
1	A	760	ASN
1	A	777	GLY
1	A	846	PHE
1	B	146	GLY
1	B	153	VAL
1	B	180	ALA
1	B	198	GLN
1	B	199	VAL
1	B	235	GLU
1	B	331	VAL
1	B	398	ILE
1	B	464	LEU
1	B	541	ALA
1	B	544	ARG
1	B	669	SER
1	B	694	GLY
1	B	813	ASP
1	B	904	THR
1	B	928	VAL
1	C	88	VAL
1	C	127	LYS
1	C	200	GLY
1	C	274	GLY
1	C	279	ALA
1	C	281	ILE
1	C	289	ASN
1	C	387	ALA
1	C	395	VAL
1	C	414	LEU
1	C	426	VAL
1	C	446	ILE
1	C	483	ASP
1	C	493	LYS
1	C	504	MET
1	C	546	ARG
1	C	554	ARG
1	C	599	ASN
1	C	686	LYS
1	C	733	GLY
1	C	893	LEU

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Mol	Chain	Res	Type
1	C	920	PHE
1	D	110	GLY
1	D	151	LYS
1	D	185	LYS
1	D	200	GLY
1	D	203	ASN
1	D	219	ASP
1	D	281	ILE
1	D	395	VAL
1	D	607	SER
1	D	624	HIS
1	D	749	VAL
1	D	786	GLY
1	D	835	THR
1	E	156	THR
1	E	248	GLY
1	E	283	LEU
1	E	310	ILE
1	E	339	THR
1	E	457	VAL
1	E	582	GLU
1	E	675	PHE
1	E	780	GLY
1	E	786	GLY
1	E	794	PHE
1	E	818	THR
1	E	891	ASN
1	F	86	LEU
1	F	146	GLY
1	F	188	TYR
1	F	226	TYR
1	F	238	GLY
1	F	245	VAL
1	F	270	ALA
1	F	274	GLY
1	F	309	GLU
1	F	389	ASP
1	F	457	VAL
1	F	504	MET
1	F	514	VAL
1	F	516	ALA
1	F	520	ILE

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Mol	Chain	Res	Type
1	F	526	LEU
1	F	542	GLY
1	F	578	SER
1	F	697	PRO
1	F	698	TYR
1	F	703	GLY
1	F	707	TYR
1	F	831	TYR
1	F	837	ARG
1	F	943	THR
1	G	35	THR
1	G	97	ALA
1	G	118	GLY
1	G	236	LYS
1	G	245	VAL
1	G	265	GLY
1	G	310	ILE
1	G	322	ASN
1	G	327	ARG
1	G	502	GLU
1	G	508	VAL
1	G	589	VAL
1	G	596	SER
1	G	668	PRO
1	G	710	GLY
1	G	727	SER
1	G	924	ASP
1	H	37	THR
1	H	89	GLY
1	H	153	VAL
1	H	156	THR
1	H	185	LYS
1	H	198	GLN
1	H	201	GLU
1	H	205	GLN
1	H	221	LYS
1	H	238	GLY
1	H	351	GLN
1	H	437	GLU
1	H	482	PRO
1	H	542	GLY
1	H	627	ALA

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Mol	Chain	Res	Type
1	H	669	SER
1	H	690	SER
1	H	703	GLY
1	H	889	GLY
1	H	907	VAL
1	H	936	ILE
1	I	42	GLY
1	I	188	TYR
1	I	248	GLY
1	I	265	GLY
1	I	266	GLY
1	I	274	GLY
1	I	362	ASN
1	I	402	GLY
1	I	457	VAL
1	I	464	LEU
1	I	483	ASP
1	I	502	GLU
1	I	504	MET
1	I	516	ALA
1	I	657	PRO
1	I	669	SER
1	I	673	ALA
1	I	747	ARG
1	I	761	MET
1	I	853	GLN
1	J	42	GLY
1	J	245	VAL
1	J	322	ASN
1	J	339	THR
1	J	359	GLN
1	J	389	ASP
1	J	404	GLU
1	J	502	GLU
1	J	508	VAL
1	J	546	ARG
1	J	703	GLY
1	J	786	GLY
1	J	798	PHE
1	J	805	VAL
1	J	836	MET
1	J	930	GLN

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Mol	Chain	Res	Type
1	K	21	SER
1	K	146	GLY
1	K	169	ASN
1	K	191	LYS
1	K	221	LYS
1	K	339	THR
1	K	362	ASN
1	K	662	ASN
1	K	710	GLY
1	K	715	ASN
1	K	740	PRO
1	K	777	GLY
1	K	812	LYS
1	L	72	ASP
1	L	74	GLU
1	L	75	ALA
1	L	97	ALA
1	L	100	TYR
1	L	116	TYR
1	L	226	TYR
1	L	240	ALA
1	L	256	ILE
1	L	309	GLU
1	L	460	MET
1	L	483	ASP
1	L	504	MET
1	L	760	ASN
1	L	796	ARG
1	L	846	PHE
2	N	193	GLY
2	N	263	GLY
2	N	271	LEU
2	N	392	LEU
4	M	49	GLN
4	M	67	PRO
4	M	93	VAL
4	M	317	GLU
4	M	388	TRP
5	P	34	SER
5	P	63	ALA
5	Q	129	GLN
5	R	33	GLY

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Mol	Chain	Res	Type
5	S	13	PHE
5	S	46	SER
6	U	60	ALA
6	U	61	VAL
6	U	92	PRO
6	U	219	VAL
6	V	34	LEU
6	V	82	GLU
6	V	106	VAL
7	2	14	GLY
7	2	24	GLU
7	3	7	ALA
7	4	20	GLY
7	5	14	GLY
7	6	4	ILE
7	6	5	ASN
7	6	8	SER
7	6	18	PHE
7	6	20	GLY
7	7	25	ILE
7	9	20	GLY
1	A	235	GLU
1	A	339	THR
1	A	496	ALA
1	A	504	MET
1	A	572	LEU
1	A	637	ASP
1	A	647	LEU
1	A	798	PHE
1	A	836	MET
1	B	193	PHE
1	B	236	LYS
1	B	332	GLY
1	B	363	THR
1	B	454	LYS
1	B	570	LYS
1	B	746	LYS
1	B	922	VAL
1	B	931	PRO
1	B	943	THR
1	C	26	PRO
1	C	128	GLY

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Mol	Chain	Res	Type
1	C	151	LYS
1	C	188	TYR
1	C	195	PRO
1	C	236	LYS
1	C	337	ASN
1	C	454	LYS
1	C	457	VAL
1	C	519	ASN
1	C	662	ASN
1	C	673	ALA
1	C	729	VAL
1	C	801	MET
1	C	854	THR
1	D	75	ALA
1	D	244	PRO
1	D	254	LEU
1	D	331	VAL
1	D	355	VAL
1	D	414	LEU
1	D	524	TRP
1	D	578	SER
1	D	796	ARG
1	D	920	PHE
1	D	946	SER
1	E	20	ALA
1	E	38	TYR
1	E	39	PHE
1	E	86	LEU
1	E	100	TYR
1	E	113	PHE
1	E	184	LYS
1	E	192	THR
1	E	264	PRO
1	E	282	ILE
1	E	331	VAL
1	E	377	ARG
1	E	644	ASN
1	E	732	PRO
1	E	846	PHE
1	E	931	PRO
1	F	32	ALA
1	F	92	ARG

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Mol	Chain	Res	Type
1	F	100	TYR
1	F	151	LYS
1	F	185	LYS
1	F	301	PRO
1	F	351	GLN
1	F	414	LEU
1	F	416	GLY
1	F	686	LYS
1	F	741	ASN
1	F	826	SER
1	F	934	GLY
1	G	204	TRP
1	G	221	LYS
1	G	441	GLU
1	G	464	LEU
1	G	574	LEU
1	G	642	SER
1	H	353	ASN
1	H	607	SER
1	H	708	LEU
1	H	732	PRO
1	H	793	SER
1	H	795	PHE
1	H	888	LEU
1	H	944	PRO
1	I	34	ALA
1	I	108	ASP
1	I	146	GLY
1	I	226	TYR
1	I	322	ASN
1	I	479	LEU
1	I	699	PHE
1	I	706	PRO
1	I	778	TYR
1	I	836	MET
1	I	846	PHE
1	I	860	THR
1	J	21	SER
1	J	108	ASP
1	J	201	GLU
1	J	236	LYS
1	J	265	GLY

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Mol	Chain	Res	Type
1	J	291	GLU
1	J	361	ARG
1	J	367	TYR
1	J	382	SER
1	J	394	ASP
1	J	414	LEU
1	J	427	LYS
1	J	438	SER
1	J	515	ASP
1	J	576	PRO
1	J	707	TYR
1	J	829	THR
1	J	928	VAL
1	K	72	ASP
1	K	95	ASP
1	K	97	ALA
1	K	166	ASN
1	K	179	THR
1	K	421	SER
1	K	424	GLN
1	K	593	LEU
1	K	596	SER
1	K	648	SER
1	K	712	PHE
1	K	750	ASP
1	K	931	PRO
1	L	89	GLY
1	L	173	LEU
1	L	188	TYR
1	L	195	PRO
1	L	312	LEU
1	L	371	LEU
1	L	437	GLU
1	L	479	LEU
1	L	566	PHE
1	L	637	ASP
1	L	675	PHE
1	L	786	GLY
1	L	816	ALA
2	N	197	SER
2	N	427	LEU
2	N	507	GLY

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Mol	Chain	Res	Type
4	M	16	SER
4	M	68	THR
4	M	69	HIS
4	M	105	ASN
4	M	183	PRO
4	M	250	SER
4	M	336	ALA
5	P	98	GLU
5	R	35	THR
5	S	17	LEU
5	S	44	ALA
6	U	3	LYS
6	V	51	ARG
6	V	95	ALA
6	V	219	VAL
7	3	13	HIS
7	3	27	THR
7	7	6	PHE
7	8	20	GLY
7	9	10	ALA
7	9	13	HIS
7	9	25	ILE
1	A	192	THR
1	A	294	ASP
1	A	414	LEU
1	A	418	GLY
1	A	578	SER
1	A	624	HIS
1	A	639	HIS
1	A	693	SER
1	A	943	THR
1	B	224	PRO
1	B	295	THR
1	B	552	ASN
1	B	786	GLY
1	C	132	PRO
1	C	140	LYS
1	C	169	ASN
1	C	179	THR
1	C	196	GLU
1	C	388	VAL
1	C	405	ASP

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Mol	Chain	Res	Type
1	C	552	ASN
1	C	572	LEU
1	C	574	LEU
1	C	668	PRO
1	C	694	GLY
1	C	747	ARG
1	C	831	TYR
1	C	855	ALA
1	D	153	VAL
1	D	304	SER
1	D	504	MET
1	D	574	LEU
1	D	646	TYR
1	D	801	MET
1	D	836	MET
1	D	922	VAL
1	E	19	ASP
1	E	298	VAL
1	E	504	MET
1	E	589	VAL
1	E	599	ASN
1	E	726	ASP
1	E	735	ASP
1	E	753	GLY
1	E	870	MET
1	F	62	GLN
1	F	178	GLU
1	F	192	THR
1	F	327	ARG
1	F	506	GLY
1	F	546	ARG
1	F	582	GLU
1	F	645	ASP
1	F	811	TYR
1	G	151	LYS
1	G	166	ASN
1	G	193	PHE
1	G	205	GLN
1	G	291	GLU
1	G	309	GLU
1	G	335	TYR
1	G	380	TYR

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Mol	Chain	Res	Type
1	G	520	ILE
1	G	526	LEU
1	G	641	GLN
1	G	870	MET
1	H	516	ALA
1	H	572	LEU
1	H	574	LEU
1	H	583	TRP
1	H	666	SER
1	H	730	SER
1	H	846	PHE
1	I	4	PRO
1	I	43	ASN
1	I	191	LYS
1	I	245	VAL
1	I	290	LEU
1	I	437	GLU
1	I	501	TYR
1	I	641	GLN
1	I	740	PRO
1	I	859	VAL
1	I	870	MET
1	I	871	TRP
1	I	935	VAL
1	J	36	ASP
1	J	156	THR
1	J	204	TRP
1	J	267	SER
1	J	462	ILE
1	J	668	PRO
1	J	699	PHE
1	J	731	TRP
1	J	908	ASP
1	K	22	GLU
1	K	109	ARG
1	K	127	LYS
1	K	201	GLU
1	K	218	LYS
1	K	645	ASP
1	K	846	PHE
1	L	185	LYS
1	L	203	ASN

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Mol	Chain	Res	Type
1	L	241	LYS
1	L	244	PRO
1	L	253	ASP
1	L	268	PRO
1	L	289	ASN
1	L	363	THR
1	L	477	VAL
1	L	555	TYR
1	L	684	LYS
1	L	837	ARG
1	L	887	ASP
1	L	943	THR
2	N	110	LEU
2	N	417	PRO
4	M	152	VAL
4	M	228	PRO
5	Q	18	THR
5	Q	20	ARG
6	U	5	ILE
6	U	73	ASN
6	U	77	THR
7	4	17	PRO
7	4	21	THR
7	6	14	GLY
7	6	27	THR
7	7	17	PRO
7	8	17	PRO
7	9	19	MET
1	A	37	THR
1	A	194	GLN
1	A	196	GLU
1	A	246	ASN
1	A	533	ASN
1	A	621	PRO
1	A	669	SER
1	A	722	SER
1	A	785	GLU
1	A	826	SER
1	A	833	ALA
1	B	63	ARG
1	B	448	ARG
1	B	457	VAL

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Mol	Chain	Res	Type
1	B	706	PRO
1	B	716	HIS
1	B	731	TRP
1	C	8	PRO
1	C	63	ARG
1	C	286	GLU
1	C	492	VAL
1	C	691	LEU
1	C	794	PHE
1	C	817	VAL
1	C	846	PHE
1	D	61	SER
1	D	147	VAL
1	D	621	PRO
1	D	732	PRO
1	D	778	TYR
1	D	819	LEU
1	D	943	THR
1	E	26	PRO
1	E	115	PRO
1	E	117	SER
1	E	132	PRO
1	E	367	TYR
1	E	443	ASP
1	E	626	THR
1	E	642	SER
1	E	657	PRO
1	E	731	TRP
1	E	871	TRP
1	F	22	GLU
1	F	269	PRO
1	F	308	SER
1	F	752	GLU
1	F	776	ILE
1	F	846	PHE
1	G	93	VAL
1	G	95	ASP
1	G	453	CYS
1	G	477	VAL
1	G	506	GLY
1	G	528	PRO
1	G	599	ASN

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Mol	Chain	Res	Type
1	G	621	PRO
1	G	730	SER
1	G	846	PHE
1	G	943	THR
1	H	268	PRO
1	H	341	ASN
1	H	464	LEU
1	H	518	ILE
1	H	890	GLN
1	H	918	LEU
1	I	111	PRO
1	I	152	ASP
1	I	153	VAL
1	I	174	LEU
1	I	353	ASN
1	I	440	TRP
1	I	724	MET
1	I	773	HIS
1	I	834	PRO
1	I	867	ASP
1	J	170	GLN
1	J	424	GLN
1	J	426	VAL
1	J	464	LEU
1	J	621	PRO
1	K	39	PHE
1	K	56	VAL
1	K	193	PHE
1	K	576	PRO
1	L	152	ASP
1	L	191	LYS
1	L	196	GLU
1	L	889	GLY
2	N	117	ASN
2	N	134	VAL
2	N	341	ASN
2	N	502	VAL
4	M	99	GLU
4	M	180	GLN
4	M	181	SER
4	M	372	ALA
5	R	42	LEU

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Mol	Chain	Res	Type
5	R	55	GLY
6	V	32	ASN
6	V	60	ALA
6	V	65	PRO
6	V	184	GLY
7	1	11	PRO
7	7	10	ALA
7	7	27	THR
1	A	3	THR
1	A	118	GLY
1	A	428	ILE
1	A	853	GLN
1	B	188	TYR
1	B	227	GLY
1	B	482	PRO
1	C	248	GLY
1	C	301	PRO
1	C	339	THR
1	C	796	ARG
1	C	825	ASN
1	D	111	PRO
1	D	487	TYR
1	D	635	ARG
1	E	147	VAL
1	E	195	PRO
1	E	740	PRO
1	E	869	VAL
1	F	199	VAL
1	F	816	ALA
1	F	863	LYS
1	G	289	ASN
1	H	86	LEU
1	H	151	LYS
1	H	187	ILE
1	H	244	PRO
1	H	398	ILE
1	H	528	PRO
1	H	670	ARG
1	H	707	TYR
1	H	939	VAL
1	I	8	PRO
1	I	269	PRO

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Mol	Chain	Res	Type
1	I	272	GLY
1	I	398	ILE
1	J	107	LEU
1	J	184	LYS
1	J	281	ILE
1	J	749	VAL
1	J	811	TYR
1	J	931	PRO
1	K	318	PRO
1	K	382	SER
1	K	426	VAL
1	K	594	GLN
1	K	769	GLN
1	L	32	ALA
1	L	582	GLU
2	N	90	PRO
2	N	461	ILE
4	M	197	VAL
5	S	30	ASN
6	U	58	GLN
6	V	48	ARG
1	A	195	PRO
1	A	224	PRO
1	B	740	PRO
1	D	482	PRO
1	D	657	PRO
1	E	834	PRO
1	F	187	ILE
1	F	817	VAL
1	F	834	PRO
1	H	786	GLY
1	H	913	PRO
1	I	7	MET
1	I	163	GLY
1	I	533	ASN
1	I	848	TYR
1	I	849	PRO
1	I	869	VAL
1	J	834	PRO
1	L	388	VAL
1	L	562	VAL
1	L	928	VAL

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Mol	Chain	Res	Type
2	N	145	VAL
4	M	87	PRO
7	3	11	PRO
1	A	147	VAL
1	A	392	ASP
1	A	434	GLY
1	C	514	VAL
1	C	834	PRO
1	D	245	VAL
1	D	416	GLY
1	D	477	VAL
1	E	575	LEU
1	F	621	PRO
1	F	777	GLY
1	G	749	VAL
1	G	776	ILE
1	G	869	VAL
1	H	355	VAL
1	I	732	PRO
1	J	298	VAL
1	K	42	GLY
1	K	909	PRO
1	L	147	VAL
1	L	269	PRO
1	L	817	VAL
4	M	33	ILE
4	M	101	VAL
5	P	3	GLY
5	R	31	VAL
5	R	88	SER
6	V	86	PRO
7	3	17	PRO
1	A	200	GLY
1	C	103	ILE
1	C	922	VAL
1	D	132	PRO
1	D	697	PRO
1	F	153	VAL
1	F	159	VAL
1	F	613	VAL
1	G	452	ILE
1	H	834	PRO

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Mol	Chain	Res	Type
1	I	739	THR
1	L	50	VAL
1	L	324	ILE
1	L	520	ILE
6	U	189	VAL
1	A	42	GLY
1	A	111	PRO
1	A	697	PRO
1	B	477	VAL
1	D	506	GLY
1	D	613	VAL
1	D	703	GLY
1	E	689	PRO
1	F	267	SER
1	F	398	ILE
1	G	267	SER
1	H	159	VAL
1	H	706	PRO
1	I	268	PRO
1	I	749	VAL
1	I	777	GLY
1	J	922	VAL
1	K	250	GLN
1	K	621	PRO
1	K	732	PRO
2	N	274	GLY
2	N	283	PRO
2	N	500	PRO
4	M	149	PRO
6	V	214	PRO
7	1	10	ALA
1	B	608	VAL
1	C	268	PRO
1	E	266	GLY
1	F	936	ILE
1	G	197	PRO
1	L	71	VAL
1	L	569	ILE
1	L	668	PRO
2	N	144	VAL
2	N	448	PRO
5	P	27	VAL

5.3.2 Protein sidechains (i)

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all 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	817/818 (100%)	696 (85%)	121 (15%)	3 18
1	B	815/818 (100%)	662 (81%)	153 (19%)	1 10
1	C	814/818 (100%)	651 (80%)	163 (20%)	1 8
1	D	814/818 (100%)	675 (83%)	139 (17%)	2 13
1	E	814/818 (100%)	645 (79%)	169 (21%)	1 7
1	F	816/818 (100%)	603 (74%)	213 (26%)	0 4
1	G	814/818 (100%)	616 (76%)	198 (24%)	0 5
1	H	814/818 (100%)	604 (74%)	210 (26%)	0 4
1	I	815/818 (100%)	627 (77%)	188 (23%)	1 6
1	J	817/818 (100%)	609 (74%)	208 (26%)	0 4
1	K	817/818 (100%)	605 (74%)	212 (26%)	0 4
1	L	814/818 (100%)	635 (78%)	179 (22%)	1 6
2	N	428/443 (97%)	370 (86%)	58 (14%)	3 21
3	O	16/16 (100%)	14 (88%)	2 (12%)	4 23
4	M	317/327 (97%)	279 (88%)	38 (12%)	5 25
5	P	89/102 (87%)	77 (86%)	12 (14%)	4 21
5	Q	89/102 (87%)	73 (82%)	16 (18%)	1 11
5	R	102/102 (100%)	81 (79%)	21 (21%)	1 7
5	S	90/102 (88%)	72 (80%)	18 (20%)	1 8
6	U	153/190 (80%)	120 (78%)	33 (22%)	1 7
6	V	153/190 (80%)	124 (81%)	29 (19%)	1 9
7	1	24/24 (100%)	18 (75%)	6 (25%)	0 4
7	2	22/24 (92%)	13 (59%)	9 (41%)	0 0
7	3	21/24 (88%)	15 (71%)	6 (29%)	0 2
7	4	22/24 (92%)	18 (82%)	4 (18%)	1 11
7	5	21/24 (88%)	15 (71%)	6 (29%)	0 2

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
7	6	22/24 (92%)	21 (96%)	1 (4%)	27 57
7	7	21/24 (88%)	20 (95%)	1 (5%)	25 56
7	8	24/24 (100%)	20 (83%)	4 (17%)	2 14
7	9	21/24 (88%)	14 (67%)	7 (33%)	0 1
All	All	11416/11606 (98%)	8992 (79%)	2424 (21%)	3 7

All (2424) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	3	THR
1	A	5	SER
1	A	10	TRP
1	A	13	MET
1	A	22	GLU
1	A	23	TYR
1	A	25	SER
1	A	35	THR
1	A	36	ASP
1	A	41	LEU
1	A	55	ASP
1	A	58	THR
1	A	60	ARG
1	A	67	ARG
1	A	77	THR
1	A	83	ARG
1	A	84	PHE
1	A	85	THR
1	A	94	LEU
1	A	95	ASP
1	A	121	TYR
1	A	131	ASN
1	A	134	GLN
1	A	147	VAL
1	A	152	ASP
1	A	162	THR
1	A	172	LEU
1	A	196	GLU
1	A	202	GLU
1	A	203	ASN
1	A	204	TRP
1	A	225	CYS

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Mol	Chain	Res	Type
1	A	229	PHE
1	A	235	GLU
1	A	245	VAL
1	A	247	GLU
1	A	249	GLU
1	A	253	ASP
1	A	255	ASP
1	A	262	ASP
1	A	275	GLU
1	A	280	ASP
1	A	291	GLU
1	A	305	ASP
1	A	320	ARG
1	A	322	ASN
1	A	333	LEU
1	A	338	SER
1	A	341	ASN
1	A	350	SER
1	A	361	ARG
1	A	369	LEU
1	A	372	ASP
1	A	383	MET
1	A	384	TRP
1	A	390	SER
1	A	392	ASP
1	A	400	ASN
1	A	405	ASP
1	A	409	ASN
1	A	414	LEU
1	A	415	ASN
1	A	422	THR
1	A	426	VAL
1	A	428	ILE
1	A	429	THR
1	A	436	GLU
1	A	454	LYS
1	A	462	ILE
1	A	479	LEU
1	A	483	ASP
1	A	497	ASN
1	A	502	GLU
1	A	508	VAL

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Mol	Chain	Res	Type
1	A	527	ASP
1	A	537	HIS
1	A	539	ARG
1	A	546	ARG
1	A	555	TYR
1	A	571	ASN
1	A	595	SER
1	A	631	GLU
1	A	635	ARG
1	A	637	ASP
1	A	639	HIS
1	A	643	PHE
1	A	644	ASN
1	A	652	MET
1	A	681	THR
1	A	682	ARG
1	A	683	LEU
1	A	693	SER
1	A	704	SER
1	A	711	THR
1	A	717	THR
1	A	722	SER
1	A	731	TRP
1	A	732	PRO
1	A	748	SER
1	A	750	ASP
1	A	759	CYS
1	A	760	ASN
1	A	770	MET
1	A	804	GLN
1	A	812	LYS
1	A	813	ASP
1	A	814	TYR
1	A	818	THR
1	A	824	ASN
1	A	836	MET
1	A	837	ARG
1	A	861	GLN
1	A	873	ILE
1	A	880	MET
1	A	881	SER
1	A	902	ASP

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Mol	Chain	Res	Type
1	A	912	GLU
1	A	918	LEU
1	A	924	ASP
1	A	941	LEU
1	A	943	THR
1	B	5	SER
1	B	9	GLN
1	B	15	ILE
1	B	23	TYR
1	B	35	THR
1	B	44	LYS
1	B	46	ARG
1	B	47	ASN
1	B	49	THR
1	B	61	SER
1	B	66	LEU
1	B	67	ARG
1	B	91	ASN
1	B	92	ARG
1	B	93	VAL
1	B	107	LEU
1	B	108	ASP
1	B	109	ARG
1	B	112	SER
1	B	114	LYS
1	B	121	TYR
1	B	122	ASN
1	B	123	SER
1	B	131	ASN
1	B	148	GLN
1	B	154	THR
1	B	155	LYS
1	B	159	VAL
1	B	169	ASN
1	B	179	THR
1	B	186	ASP
1	B	210	PHE
1	B	222	MET
1	B	225	CYS
1	B	228	SER
1	B	231	ARG
1	B	239	GLN

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Mol	Chain	Res	Type
1	B	242	PHE
1	B	246	ASN
1	B	250	GLN
1	B	257	ASP
1	B	258	PHE
1	B	260	TYR
1	B	275	GLU
1	B	276	GLU
1	B	278	LYS
1	B	280	ASP
1	B	283	LEU
1	B	285	THR
1	B	291	GLU
1	B	292	THR
1	B	295	THR
1	B	313	VAL
1	B	315	GLN
1	B	317	MET
1	B	324	ILE
1	B	328	ASP
1	B	337	ASN
1	B	341	ASN
1	B	342	MET
1	B	345	LEU
1	B	348	GLN
1	B	350	SER
1	B	360	ASP
1	B	361	ARG
1	B	364	GLU
1	B	379	ARG
1	B	384	TRP
1	B	386	SER
1	B	388	VAL
1	B	389	ASP
1	B	396	ARG
1	B	414	LEU
1	B	420	ASN
1	B	426	VAL
1	B	429	THR
1	B	433	ASP
1	B	448	ARG
1	B	450	ASN

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Mol	Chain	Res	Type
1	B	456	ASN
1	B	460	MET
1	B	493	LYS
1	B	499	ASN
1	B	505	ASN
1	B	507	ARG
1	B	517	TYR
1	B	520	ILE
1	B	529	MET
1	B	531	ASN
1	B	532	VAL
1	B	539	ARG
1	B	540	ASN
1	B	544	ARG
1	B	565	LYS
1	B	567	PHE
1	B	572	LEU
1	B	579	TYR
1	B	581	TYR
1	B	584	ASN
1	B	608	VAL
1	B	614	ASN
1	B	615	LEU
1	B	625	ASN
1	B	626	THR
1	B	629	THR
1	B	636	ASN
1	B	637	ASP
1	B	640	ASP
1	B	643	PHE
1	B	644	ASN
1	B	651	ASN
1	B	652	MET
1	B	661	THR
1	B	662	ASN
1	B	669	SER
1	B	676	ARG
1	B	685	THR
1	B	696	ASP
1	B	709	ASP
1	B	719	LYS
1	B	720	LYS

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Mol	Chain	Res	Type
1	B	750	ASP
1	B	760	ASN
1	B	761	MET
1	B	769	GLN
1	B	774	TYR
1	B	787	TYR
1	B	790	ARG
1	B	797	ASN
1	B	812	LYS
1	B	813	ASP
1	B	821	PHE
1	B	836	MET
1	B	840	GLN
1	B	851	ILE
1	B	863	LYS
1	B	865	LEU
1	B	868	ARG
1	B	870	MET
1	B	878	ASN
1	B	880	MET
1	B	882	MET
1	B	887	ASP
1	B	888	LEU
1	B	892	MET
1	B	893	LEU
1	B	902	ASP
1	B	906	GLU
1	B	908	ASP
1	B	914	THR
1	B	924	ASP
1	B	932	HIS
1	B	939	VAL
1	C	5	SER
1	C	13	MET
1	C	23	TYR
1	C	50	VAL
1	C	58	THR
1	C	59	ASP
1	C	60	ARG
1	C	61	SER
1	C	65	THR
1	C	68	PHE

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Mol	Chain	Res	Type
1	C	69	VAL
1	C	72	ASP
1	C	74	GLU
1	C	84	PHE
1	C	90	ASP
1	C	93	VAL
1	C	104	ARG
1	C	107	LEU
1	C	108	ASP
1	C	119	THR
1	C	149	GLN
1	C	155	LYS
1	C	156	THR
1	C	162	THR
1	C	165	ILE
1	C	169	ASN
1	C	186	ASP
1	C	187	ILE
1	C	190	ASP
1	C	192	THR
1	C	222	MET
1	C	225	CYS
1	C	228	SER
1	C	229	PHE
1	C	231	ARG
1	C	235	GLU
1	C	243	LYS
1	C	247	GLU
1	C	249	GLU
1	C	260	TYR
1	C	267	SER
1	C	273	SER
1	C	285	THR
1	C	286	GLU
1	C	287	ASN
1	C	289	ASN
1	C	292	THR
1	C	304	SER
1	C	309	GLU
1	C	313	VAL
1	C	314	GLN
1	C	316	SER

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Mol	Chain	Res	Type
1	C	317	MET
1	C	320	ARG
1	C	337	ASN
1	C	341	ASN
1	C	348	GLN
1	C	359	GLN
1	C	362	ASN
1	C	363	THR
1	C	364	GLU
1	C	365	LEU
1	C	368	GLN
1	C	371	LEU
1	C	372	ASP
1	C	384	TRP
1	C	386	SER
1	C	388	VAL
1	C	389	ASP
1	C	392	ASP
1	C	394	ASP
1	C	395	VAL
1	C	396	ARG
1	C	400	ASN
1	C	405	ASP
1	C	407	LEU
1	C	424	GLN
1	C	438	SER
1	C	442	LYS
1	C	443	ASP
1	C	447	SER
1	C	451	GLN
1	C	461	GLU
1	C	469	TRP
1	C	472	PHE
1	C	473	LEU
1	C	497	ASN
1	C	499	ASN
1	C	505	ASN
1	C	507	ARG
1	C	514	VAL
1	C	519	ASN
1	C	527	ASP
1	C	532	VAL

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Mol	Chain	Res	Type
1	C	533	ASN
1	C	536	ASN
1	C	537	HIS
1	C	544	ARG
1	C	550	LEU
1	C	561	GLN
1	C	564	GLN
1	C	565	LYS
1	C	579	TYR
1	C	581	TYR
1	C	582	GLU
1	C	603	VAL
1	C	604	ASP
1	C	620	PHE
1	C	626	THR
1	C	629	THR
1	C	635	ARG
1	C	636	ASN
1	C	640	ASP
1	C	643	PHE
1	C	652	MET
1	C	670	ARG
1	C	681	THR
1	C	682	ARG
1	C	686	LYS
1	C	688	THR
1	C	701	TYR
1	C	715	ASN
1	C	725	PHE
1	C	726	ASP
1	C	736	ARG
1	C	739	THR
1	C	744	GLU
1	C	746	LYS
1	C	752	GLU
1	C	761	MET
1	C	762	THR
1	C	768	VAL
1	C	769	GLN
1	C	770	MET
1	C	771	LEU
1	C	774	TYR

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Mol	Chain	Res	Type
1	C	776	ILE
1	C	779	GLN
1	C	790	ARG
1	C	801	MET
1	C	803	ARG
1	C	810	ASN
1	C	828	PHE
1	C	836	MET
1	C	840	GLN
1	C	851	ILE
1	C	853	GLN
1	C	856	VAL
1	C	861	GLN
1	C	864	PHE
1	C	867	ASP
1	C	868	ARG
1	C	869	VAL
1	C	870	MET
1	C	881	SER
1	C	903	MET
1	C	914	THR
1	C	916	LEU
1	C	927	ARG
1	C	932	HIS
1	C	935	VAL
1	C	942	ARG
1	C	943	THR
1	D	7	MET
1	D	10	TRP
1	D	22	GLU
1	D	23	TYR
1	D	31	PHE
1	D	37	THR
1	D	38	TYR
1	D	46	ARG
1	D	62	GLN
1	D	64	LEU
1	D	76	THR
1	D	83	ARG
1	D	84	PHE
1	D	107	LEU
1	D	133	SER

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Mol	Chain	Res	Type
1	D	134	GLN
1	D	147	VAL
1	D	152	ASP
1	D	154	THR
1	D	155	LYS
1	D	156	THR
1	D	162	THR
1	D	165	ILE
1	D	186	ASP
1	D	187	ILE
1	D	188	TYR
1	D	190	ASP
1	D	194	GLN
1	D	196	GLU
1	D	204	TRP
1	D	205	GLN
1	D	214	ARG
1	D	218	LYS
1	D	231	ARG
1	D	246	ASN
1	D	286	GLU
1	D	287	ASN
1	D	294	ASP
1	D	314	GLN
1	D	316	SER
1	D	338	SER
1	D	341	ASN
1	D	348	GLN
1	D	359	GLN
1	D	361	ARG
1	D	371	LEU
1	D	372	ASP
1	D	384	TRP
1	D	392	ASP
1	D	398	ILE
1	D	403	VAL
1	D	409	ASN
1	D	412	PHE
1	D	417	THR
1	D	427	LYS
1	D	429	THR
1	D	436	GLU

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Mol	Chain	Res	Type
1	D	457	VAL
1	D	462	ILE
1	D	497	ASN
1	D	502	GLU
1	D	505	ASN
1	D	518	ILE
1	D	520	ILE
1	D	524	TRP
1	D	525	SER
1	D	552	ASN
1	D	563	PRO
1	D	564	GLN
1	D	565	LYS
1	D	567	PHE
1	D	571	ASN
1	D	580	THR
1	D	582	GLU
1	D	608	VAL
1	D	611	ASP
1	D	613	VAL
1	D	626	THR
1	D	639	HIS
1	D	640	ASP
1	D	642	SER
1	D	643	PHE
1	D	644	ASN
1	D	652	MET
1	D	653	LEU
1	D	665	ILE
1	D	676	ARG
1	D	679	SER
1	D	688	THR
1	D	690	SER
1	D	708	LEU
1	D	709	ASP
1	D	715	ASN
1	D	726	ASP
1	D	731	TRP
1	D	735	ASP
1	D	738	LEU
1	D	739	THR
1	D	741	ASN

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Mol	Chain	Res	Type
1	D	756	VAL
1	D	759	CYS
1	D	762	THR
1	D	769	GLN
1	D	774	TYR
1	D	787	TYR
1	D	794	PHE
1	D	797	ASN
1	D	803	ARG
1	D	804	GLN
1	D	806	VAL
1	D	809	ILE
1	D	818	THR
1	D	819	LEU
1	D	825	ASN
1	D	826	SER
1	D	837	ARG
1	D	850	LEU
1	D	851	ILE
1	D	862	LYS
1	D	863	LYS
1	D	868	ARG
1	D	870	MET
1	D	880	MET
1	D	881	SER
1	D	882	MET
1	D	894	TYR
1	D	902	ASP
1	D	903	MET
1	D	908	ASP
1	D	910	MET
1	D	911	ASP
1	D	912	GLU
1	D	919	LEU
1	D	924	ASP
1	D	927	ARG
1	D	928	VAL
1	D	937	GLU
1	D	939	VAL
1	D	952	THR
1	E	6	MET
1	E	7	MET

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Mol	Chain	Res	Type
1	E	23	TYR
1	E	25	SER
1	E	31	PHE
1	E	37	THR
1	E	47	ASN
1	E	49	THR
1	E	53	THR
1	E	55	ASP
1	E	56	VAL
1	E	57	THR
1	E	64	LEU
1	E	73	ARG
1	E	74	GLU
1	E	84	PHE
1	E	91	ASN
1	E	92	ARG
1	E	96	MET
1	E	101	PHE
1	E	107	LEU
1	E	116	TYR
1	E	137	THR
1	E	141	GLN
1	E	147	VAL
1	E	165	ILE
1	E	166	ASN
1	E	169	ASN
1	E	174	LEU
1	E	186	ASP
1	E	202	GLU
1	E	203	ASN
1	E	204	TRP
1	E	206	GLU
1	E	207	ASN
1	E	208	GLU
1	E	219	ASP
1	E	220	THR
1	E	225	CYS
1	E	226	TYR
1	E	228	SER
1	E	235	GLU
1	E	241	LYS
1	E	254	LEU

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Mol	Chain	Res	Type
1	E	260	TYR
1	E	277	TYR
1	E	278	LYS
1	E	284	TYR
1	E	292	THR
1	E	294	ASP
1	E	295	THR
1	E	303	THR
1	E	304	SER
1	E	306	ASN
1	E	313	VAL
1	E	314	GLN
1	E	315	GLN
1	E	319	ASN
1	E	324	ILE
1	E	334	MET
1	E	337	ASN
1	E	339	THR
1	E	342	MET
1	E	344	VAL
1	E	348	GLN
1	E	353	ASN
1	E	355	VAL
1	E	360	ASP
1	E	361	ARG
1	E	362	ASN
1	E	377	ARG
1	E	382	SER
1	E	383	MET
1	E	386	SER
1	E	396	ARG
1	E	398	ILE
1	E	399	GLU
1	E	403	VAL
1	E	407	LEU
1	E	426	VAL
1	E	438	SER
1	E	446	ILE
1	E	447	SER
1	E	452	ILE
1	E	454	LYS
1	E	458	TYR

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Mol	Chain	Res	Type
1	E	460	MET
1	E	461	GLU
1	E	471	SER
1	E	477	VAL
1	E	479	LEU
1	E	483	ASP
1	E	486	LYS
1	E	513	LEU
1	E	517	TYR
1	E	520	ILE
1	E	529	MET
1	E	537	HIS
1	E	543	LEU
1	E	544	ARG
1	E	561	GLN
1	E	564	GLN
1	E	565	LYS
1	E	567	PHE
1	E	571	ASN
1	E	572	LEU
1	E	574	LEU
1	E	582	GLU
1	E	589	VAL
1	E	590	ASN
1	E	593	LEU
1	E	594	GLN
1	E	595	SER
1	E	604	ASP
1	E	613	VAL
1	E	614	ASN
1	E	615	LEU
1	E	618	THR
1	E	625	ASN
1	E	626	THR
1	E	628	SER
1	E	630	LEU
1	E	631	GLU
1	E	634	LEU
1	E	641	GLN
1	E	643	PHE
1	E	659	LYS
1	E	661	THR

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Mol	Chain	Res	Type
1	E	669	SER
1	E	670	ARG
1	E	679	SER
1	E	682	ARG
1	E	683	LEU
1	E	695	PHE
1	E	708	LEU
1	E	720	LYS
1	E	726	ASP
1	E	731	TRP
1	E	734	ASN
1	E	742	GLU
1	E	749	VAL
1	E	755	ASN
1	E	761	MET
1	E	764	ASP
1	E	774	TYR
1	E	775	ASN
1	E	785	GLU
1	E	789	ASP
1	E	790	ARG
1	E	797	ASN
1	E	809	ILE
1	E	812	LYS
1	E	815	LYS
1	E	825	ASN
1	E	837	ARG
1	E	840	GLN
1	E	851	ILE
1	E	853	GLN
1	E	885	LEU
1	E	896	ASN
1	E	906	GLU
1	E	910	MET
1	E	919	LEU
1	E	921	GLU
1	E	930	GLN
1	E	932	HIS
1	E	937	GLU
1	E	941	LEU
1	E	942	ARG
1	F	1	MET

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Mol	Chain	Res	Type
1	F	5	SER
1	F	9	GLN
1	F	18	GLN
1	F	23	TYR
1	F	46	ARG
1	F	56	VAL
1	F	65	THR
1	F	68	PHE
1	F	71	VAL
1	F	72	ASP
1	F	84	PHE
1	F	86	LEU
1	F	92	ARG
1	F	102	ASP
1	F	104	ARG
1	F	109	ARG
1	F	117	SER
1	F	122	ASN
1	F	131	ASN
1	F	134	GLN
1	F	135	TRP
1	F	148	GLN
1	F	149	GLN
1	F	151	LYS
1	F	152	ASP
1	F	154	THR
1	F	155	LYS
1	F	165	ILE
1	F	166	ASN
1	F	170	GLN
1	F	177	ASP
1	F	178	GLU
1	F	179	THR
1	F	188	TYR
1	F	190	ASP
1	F	192	THR
1	F	196	GLU
1	F	201	GLU
1	F	203	ASN
1	F	207	ASN
1	F	217	LYS
1	F	220	THR

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Mol	Chain	Res	Type
1	F	222	MET
1	F	229	PHE
1	F	235	GLU
1	F	243	LYS
1	F	249	GLU
1	F	250	GLN
1	F	255	ASP
1	F	273	SER
1	F	275	GLU
1	F	276	GLU
1	F	280	ASP
1	F	286	GLU
1	F	289	ASN
1	F	291	GLU
1	F	297	VAL
1	F	309	GLU
1	F	313	VAL
1	F	314	GLN
1	F	328	ASP
1	F	329	ASN
1	F	333	LEU
1	F	337	ASN
1	F	341	ASN
1	F	344	VAL
1	F	348	GLN
1	F	350	SER
1	F	360	ASP
1	F	361	ARG
1	F	366	SER
1	F	372	ASP
1	F	373	SER
1	F	383	MET
1	F	384	TRP
1	F	388	VAL
1	F	396	ARG
1	F	407	LEU
1	F	429	THR
1	F	439	GLU
1	F	440	TRP
1	F	446	ILE
1	F	447	SER
1	F	449	GLN

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Mol	Chain	Res	Type
1	F	451	GLN
1	F	461	GLU
1	F	470	LYS
1	F	471	SER
1	F	484	SER
1	F	497	ASN
1	F	499	ASN
1	F	502	GLU
1	F	507	ARG
1	F	514	VAL
1	F	520	ILE
1	F	526	LEU
1	F	527	ASP
1	F	528	PRO
1	F	529	MET
1	F	537	HIS
1	F	545	TYR
1	F	549	LEU
1	F	556	VAL
1	F	565	LYS
1	F	567	PHE
1	F	571	ASN
1	F	573	LEU
1	F	574	LEU
1	F	581	TYR
1	F	582	GLU
1	F	583	TRP
1	F	584	ASN
1	F	586	ARG
1	F	595	SER
1	F	597	LEU
1	F	604	ASP
1	F	613	VAL
1	F	614	ASN
1	F	619	PHE
1	F	628	SER
1	F	629	THR
1	F	634	LEU
1	F	635	ARG
1	F	640	ASP
1	F	641	GLN
1	F	643	PHE

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Mol	Chain	Res	Type
1	F	647	LEU
1	F	648	SER
1	F	662	ASN
1	F	670	ARG
1	F	672	TRP
1	F	675	PHE
1	F	676	ARG
1	F	680	PHE
1	F	682	ARG
1	F	683	LEU
1	F	685	THR
1	F	686	LYS
1	F	690	SER
1	F	691	LEU
1	F	693	SER
1	F	695	PHE
1	F	696	ASP
1	F	701	TYR
1	F	708	LEU
1	F	712	PHE
1	F	717	THR
1	F	722	SER
1	F	723	ILE
1	F	724	MET
1	F	725	PHE
1	F	726	ASP
1	F	727	SER
1	F	729	VAL
1	F	730	SER
1	F	734	ASN
1	F	736	ARG
1	F	737	LEU
1	F	745	ILE
1	F	748	SER
1	F	752	GLU
1	F	754	TYR
1	F	756	VAL
1	F	758	GLN
1	F	759	CYS
1	F	760	ASN
1	F	769	GLN
1	F	771	LEU

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Mol	Chain	Res	Type
1	F	783	VAL
1	F	785	GLU
1	F	787	TYR
1	F	789	ASP
1	F	796	ARG
1	F	801	MET
1	F	803	ARG
1	F	805	VAL
1	F	810	ASN
1	F	823	HIS
1	F	824	ASN
1	F	835	THR
1	F	837	ARG
1	F	840	GLN
1	F	845	ASN
1	F	860	THR
1	F	865	LEU
1	F	866	CYS
1	F	867	ASP
1	F	868	ARG
1	F	869	VAL
1	F	870	MET
1	F	872	ARG
1	F	875	PHE
1	F	880	MET
1	F	885	LEU
1	F	886	THR
1	F	890	GLN
1	F	891	ASN
1	F	897	SER
1	F	901	LEU
1	F	902	ASP
1	F	903	MET
1	F	906	GLU
1	F	908	ASP
1	F	915	LEU
1	F	916	LEU
1	F	919	LEU
1	F	926	VAL
1	F	928	VAL
1	F	929	HIS
1	F	936	ILE

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Mol	Chain	Res	Type
1	F	939	VAL
1	F	941	LEU
1	G	6	MET
1	G	9	GLN
1	G	10	TRP
1	G	22	GLU
1	G	24	LEU
1	G	31	PHE
1	G	33	ARG
1	G	38	TYR
1	G	41	LEU
1	G	43	ASN
1	G	46	ARG
1	G	47	ASN
1	G	49	THR
1	G	50	VAL
1	G	53	THR
1	G	54	HIS
1	G	55	ASP
1	G	59	ASP
1	G	63	ARG
1	G	68	PHE
1	G	69	VAL
1	G	73	ARG
1	G	76	THR
1	G	79	LEU
1	G	84	PHE
1	G	88	VAL
1	G	90	ASP
1	G	92	ARG
1	G	93	VAL
1	G	99	THR
1	G	102	ASP
1	G	103	ILE
1	G	115	PRO
1	G	116	TYR
1	G	134	GLN
1	G	143	THR
1	G	144	THR
1	G	147	VAL
1	G	151	LYS
1	G	156	THR

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Mol	Chain	Res	Type
1	G	167	ILE
1	G	169	ASN
1	G	187	ILE
1	G	191	LYS
1	G	196	GLU
1	G	199	VAL
1	G	220	THR
1	G	222	MET
1	G	225	CYS
1	G	242	PHE
1	G	256	ILE
1	G	257	ASP
1	G	276	GLU
1	G	282	ILE
1	G	286	GLU
1	G	288	VAL
1	G	291	GLU
1	G	292	THR
1	G	295	THR
1	G	298	VAL
1	G	299	TYR
1	G	306	ASN
1	G	310	ILE
1	G	314	GLN
1	G	315	GLN
1	G	316	SER
1	G	319	ASN
1	G	323	TYR
1	G	342	MET
1	G	345	LEU
1	G	356	VAL
1	G	359	GLN
1	G	360	ASP
1	G	361	ARG
1	G	369	LEU
1	G	371	LEU
1	G	373	SER
1	G	374	LEU
1	G	376	ASP
1	G	378	THR
1	G	383	MET
1	G	390	SER

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Mol	Chain	Res	Type
1	G	403	VAL
1	G	407	LEU
1	G	412	PHE
1	G	414	LEU
1	G	415	ASN
1	G	417	THR
1	G	426	VAL
1	G	427	LYS
1	G	433	ASP
1	G	441	GLU
1	G	450	ASN
1	G	462	ILE
1	G	463	ASN
1	G	470	LYS
1	G	476	ASN
1	G	477	VAL
1	G	485	TYR
1	G	486	LYS
1	G	513	LEU
1	G	514	VAL
1	G	520	ILE
1	G	524	TRP
1	G	528	PRO
1	G	531	ASN
1	G	546	ARG
1	G	547	SER
1	G	554	ARG
1	G	559	HIS
1	G	561	GLN
1	G	564	GLN
1	G	565	LYS
1	G	567	PHE
1	G	572	LEU
1	G	582	GLU
1	G	584	ASN
1	G	585	PHE
1	G	590	ASN
1	G	591	MET
1	G	592	ILE
1	G	593	LEU
1	G	596	SER
1	G	604	ASP

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Mol	Chain	Res	Type
1	G	607	SER
1	G	611	ASP
1	G	612	SER
1	G	613	VAL
1	G	615	LEU
1	G	619	PHE
1	G	624	HIS
1	G	628	SER
1	G	643	PHE
1	G	647	LEU
1	G	648	SER
1	G	652	MET
1	G	671	ASN
1	G	676	ARG
1	G	683	LEU
1	G	687	GLU
1	G	696	ASP
1	G	701	TYR
1	G	712	PHE
1	G	719	LYS
1	G	720	LYS
1	G	723	ILE
1	G	725	PHE
1	G	726	ASP
1	G	728	SER
1	G	738	LEU
1	G	741	ASN
1	G	747	ARG
1	G	756	VAL
1	G	759	CYS
1	G	762	THR
1	G	764	ASP
1	G	767	LEU
1	G	768	VAL
1	G	769	GLN
1	G	773	HIS
1	G	774	TYR
1	G	775	ASN
1	G	776	ILE
1	G	789	ASP
1	G	801	MET
1	G	803	ARG

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Mol	Chain	Res	Type
1	G	807	ASP
1	G	822	GLN
1	G	831	TYR
1	G	837	ARG
1	G	840	GLN
1	G	853	GLN
1	G	861	GLN
1	G	865	LEU
1	G	866	CYS
1	G	868	ARG
1	G	874	PRO
1	G	878	ASN
1	G	882	MET
1	G	887	ASP
1	G	888	LEU
1	G	893	LEU
1	G	902	ASP
1	G	903	MET
1	G	904	THR
1	G	906	GLU
1	G	910	MET
1	G	911	ASP
1	G	912	GLU
1	G	916	LEU
1	G	919	LEU
1	G	924	ASP
1	G	927	ARG
1	G	929	HIS
1	G	930	GLN
1	G	946	SER
1	G	951	THR
1	G	952	THR
1	H	7	MET
1	H	19	ASP
1	H	23	TYR
1	H	28	LEU
1	H	31	PHE
1	H	33	ARG
1	H	36	ASP
1	H	37	THR
1	H	38	TYR
1	H	44	LYS

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Mol	Chain	Res	Type
1	H	45	PHE
1	H	46	ARG
1	H	47	ASN
1	H	49	THR
1	H	53	THR
1	H	55	ASP
1	H	56	VAL
1	H	58	THR
1	H	64	LEU
1	H	65	THR
1	H	69	VAL
1	H	73	ARG
1	H	78	TYR
1	H	79	LEU
1	H	84	PHE
1	H	86	LEU
1	H	91	ASN
1	H	92	ARG
1	H	109	ARG
1	H	117	SER
1	H	130	PRO
1	H	137	THR
1	H	156	THR
1	H	165	ILE
1	H	166	ASN
1	H	170	GLN
1	H	174	LEU
1	H	188	TYR
1	H	190	ASP
1	H	196	GLU
1	H	198	GLN
1	H	204	TRP
1	H	205	GLN
1	H	217	LYS
1	H	218	LYS
1	H	219	ASP
1	H	221	LYS
1	H	225	CYS
1	H	229	PHE
1	H	231	ARG
1	H	234	ASN
1	H	235	GLU

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Mol	Chain	Res	Type
1	H	247	GLU
1	H	273	SER
1	H	276	GLU
1	H	280	ASP
1	H	282	ILE
1	H	283	LEU
1	H	285	THR
1	H	292	THR
1	H	295	THR
1	H	298	VAL
1	H	304	SER
1	H	315	GLN
1	H	317	MET
1	H	327	ARG
1	H	337	ASN
1	H	345	LEU
1	H	348	GLN
1	H	351	GLN
1	H	353	ASN
1	H	360	ASP
1	H	361	ARG
1	H	364	GLU
1	H	366	SER
1	H	369	LEU
1	H	372	ASP
1	H	373	SER
1	H	377	ARG
1	H	391	TYR
1	H	394	ASP
1	H	396	ARG
1	H	404	GLU
1	H	407	LEU
1	H	417	THR
1	H	422	THR
1	H	428	ILE
1	H	433	ASP
1	H	438	SER
1	H	439	GLU
1	H	446	ILE
1	H	456	ASN
1	H	460	MET
1	H	461	GLU

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Mol	Chain	Res	Type
1	H	464	LEU
1	H	468	LEU
1	H	470	LYS
1	H	497	ASN
1	H	508	VAL
1	H	512	SER
1	H	524	TRP
1	H	526	LEU
1	H	528	PRO
1	H	529	MET
1	H	531	ASN
1	H	533	ASN
1	H	537	HIS
1	H	544	ARG
1	H	545	TYR
1	H	561	GLN
1	H	564	GLN
1	H	565	LYS
1	H	567	PHE
1	H	570	LYS
1	H	571	ASN
1	H	572	LEU
1	H	579	TYR
1	H	580	THR
1	H	581	TYR
1	H	582	GLU
1	H	589	VAL
1	H	590	ASN
1	H	591	MET
1	H	593	LEU
1	H	594	GLN
1	H	604	ASP
1	H	611	ASP
1	H	614	ASN
1	H	618	THR
1	H	619	PHE
1	H	625	ASN
1	H	626	THR
1	H	628	SER
1	H	631	GLU
1	H	635	ARG
1	H	636	ASN

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Mol	Chain	Res	Type
1	H	640	ASP
1	H	641	GLN
1	H	643	PHE
1	H	652	MET
1	H	653	LEU
1	H	659	LYS
1	H	662	ASN
1	H	670	ARG
1	H	684	LYS
1	H	687	GLU
1	H	691	LEU
1	H	695	PHE
1	H	701	TYR
1	H	708	LEU
1	H	712	PHE
1	H	719	LYS
1	H	724	MET
1	H	727	SER
1	H	728	SER
1	H	730	SER
1	H	734	ASN
1	H	735	ASP
1	H	736	ARG
1	H	742	GLU
1	H	746	LYS
1	H	752	GLU
1	H	760	ASN
1	H	769	GLN
1	H	770	MET
1	H	772	SER
1	H	779	GLN
1	H	783	VAL
1	H	785	GLU
1	H	787	TYR
1	H	789	ASP
1	H	791	MET
1	H	797	ASN
1	H	801	MET
1	H	803	ARG
1	H	804	GLN
1	H	805	VAL
1	H	812	LYS

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Mol	Chain	Res	Type
1	H	819	LEU
1	H	821	PHE
1	H	822	GLN
1	H	825	ASN
1	H	836	MET
1	H	837	ARG
1	H	840	GLN
1	H	851	ILE
1	H	853	GLN
1	H	863	LYS
1	H	864	PHE
1	H	874	PRO
1	H	882	MET
1	H	893	LEU
1	H	901	LEU
1	H	902	ASP
1	H	908	ASP
1	H	910	MET
1	H	912	GLU
1	H	921	GLU
1	H	922	VAL
1	H	923	PHE
1	H	924	ASP
1	H	930	GLN
1	H	936	ILE
1	H	937	GLU
1	H	939	VAL
1	H	940	TYR
1	H	941	LEU
1	H	942	ARG
1	H	943	THR
1	H	952	THR
1	I	23	TYR
1	I	31	PHE
1	I	36	ASP
1	I	37	THR
1	I	44	LYS
1	I	47	ASN
1	I	50	VAL
1	I	57	THR
1	I	58	THR
1	I	62	GLN

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Mol	Chain	Res	Type
1	I	65	THR
1	I	67	ARG
1	I	68	PHE
1	I	86	LEU
1	I	92	ARG
1	I	94	LEU
1	I	102	ASP
1	I	112	SER
1	I	117	SER
1	I	121	TYR
1	I	127	LYS
1	I	131	ASN
1	I	140	LYS
1	I	141	GLN
1	I	153	VAL
1	I	154	THR
1	I	157	PHE
1	I	165	ILE
1	I	168	THR
1	I	170	GLN
1	I	177	ASP
1	I	190	ASP
1	I	193	PHE
1	I	195	PRO
1	I	196	GLU
1	I	201	GLU
1	I	202	GLU
1	I	206	GLU
1	I	210	PHE
1	I	217	LYS
1	I	218	LYS
1	I	219	ASP
1	I	223	LYS
1	I	231	ARG
1	I	234	ASN
1	I	257	ASP
1	I	262	ASP
1	I	273	SER
1	I	281	ILE
1	I	282	ILE
1	I	286	GLU
1	I	291	GLU

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Mol	Chain	Res	Type
1	I	294	ASP
1	I	295	THR
1	I	306	ASN
1	I	308	SER
1	I	309	GLU
1	I	312	LEU
1	I	314	GLN
1	I	315	GLN
1	I	316	SER
1	I	320	ARG
1	I	341	ASN
1	I	348	GLN
1	I	364	GLU
1	I	371	LEU
1	I	372	ASP
1	I	383	MET
1	I	385	ASN
1	I	388	VAL
1	I	398	ILE
1	I	399	GLU
1	I	404	GLU
1	I	407	LEU
1	I	409	ASN
1	I	414	LEU
1	I	417	THR
1	I	419	THR
1	I	420	ASN
1	I	426	VAL
1	I	428	ILE
1	I	433	ASP
1	I	440	TRP
1	I	446	ILE
1	I	453	CYS
1	I	454	LYS
1	I	460	MET
1	I	464	LEU
1	I	465	GLN
1	I	471	SER
1	I	476	ASN
1	I	491	ASN
1	I	497	ASN
1	I	499	ASN

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Mol	Chain	Res	Type
1	I	500	THR
1	I	505	ASN
1	I	508	VAL
1	I	514	VAL
1	I	524	TRP
1	I	527	ASP
1	I	531	ASN
1	I	537	HIS
1	I	544	ARG
1	I	549	LEU
1	I	559	HIS
1	I	565	LYS
1	I	567	PHE
1	I	571	ASN
1	I	572	LEU
1	I	574	LEU
1	I	582	GLU
1	I	583	TRP
1	I	596	SER
1	I	599	ASN
1	I	601	LEU
1	I	607	SER
1	I	612	SER
1	I	614	ASN
1	I	618	THR
1	I	619	PHE
1	I	626	THR
1	I	633	MET
1	I	634	LEU
1	I	635	ARG
1	I	640	ASP
1	I	643	PHE
1	I	644	ASN
1	I	647	LEU
1	I	648	SER
1	I	651	ASN
1	I	652	MET
1	I	659	LYS
1	I	668	PRO
1	I	670	ARG
1	I	671	ASN
1	I	676	ARG

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Mol	Chain	Res	Type
1	I	683	LEU
1	I	685	THR
1	I	690	SER
1	I	695	PHE
1	I	715	ASN
1	I	726	ASP
1	I	734	ASN
1	I	735	ASP
1	I	737	LEU
1	I	755	ASN
1	I	760	ASN
1	I	762	THR
1	I	764	ASP
1	I	770	MET
1	I	774	TYR
1	I	783	VAL
1	I	787	TYR
1	I	790	ARG
1	I	797	ASN
1	I	801	MET
1	I	803	ARG
1	I	814	TYR
1	I	821	PHE
1	I	831	TYR
1	I	832	LEU
1	I	835	THR
1	I	837	ARG
1	I	840	GLN
1	I	853	GLN
1	I	860	THR
1	I	863	LYS
1	I	864	PHE
1	I	866	CYS
1	I	868	ARG
1	I	872	ARG
1	I	879	PHE
1	I	882	MET
1	I	885	LEU
1	I	890	GLN
1	I	891	ASN
1	I	897	SER
1	I	901	LEU

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Mol	Chain	Res	Type
1	I	902	ASP
1	I	903	MET
1	I	908	ASP
1	I	911	ASP
1	I	915	LEU
1	I	916	LEU
1	I	927	ARG
1	I	936	ILE
1	I	937	GLU
1	I	949	ASN
1	J	3	THR
1	J	7	MET
1	J	10	TRP
1	J	18	GLN
1	J	22	GLU
1	J	35	THR
1	J	37	THR
1	J	38	TYR
1	J	41	LEU
1	J	43	ASN
1	J	47	ASN
1	J	49	THR
1	J	55	ASP
1	J	60	ARG
1	J	66	LEU
1	J	68	PHE
1	J	74	GLU
1	J	79	LEU
1	J	84	PHE
1	J	85	THR
1	J	86	LEU
1	J	90	ASP
1	J	92	ARG
1	J	94	LEU
1	J	103	ILE
1	J	107	LEU
1	J	108	ASP
1	J	109	ARG
1	J	121	TYR
1	J	133	SER
1	J	147	VAL
1	J	148	GLN

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Mol	Chain	Res	Type
1	J	152	ASP
1	J	165	ILE
1	J	178	GLU
1	J	188	TYR
1	J	192	THR
1	J	201	GLU
1	J	210	PHE
1	J	218	LYS
1	J	219	ASP
1	J	220	THR
1	J	222	MET
1	J	225	CYS
1	J	228	SER
1	J	234	ASN
1	J	236	LYS
1	J	254	LEU
1	J	256	ILE
1	J	257	ASP
1	J	267	SER
1	J	282	ILE
1	J	285	THR
1	J	288	VAL
1	J	289	ASN
1	J	295	THR
1	J	297	VAL
1	J	315	GLN
1	J	319	ASN
1	J	322	ASN
1	J	328	ASP
1	J	329	ASN
1	J	337	ASN
1	J	341	ASN
1	J	351	GLN
1	J	360	ASP
1	J	362	ASN
1	J	364	GLU
1	J	371	LEU
1	J	372	ASP
1	J	376	ASP
1	J	377	ARG
1	J	379	ARG
1	J	383	MET

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Mol	Chain	Res	Type
1	J	384	TRP
1	J	388	VAL
1	J	389	ASP
1	J	392	ASP
1	J	398	ILE
1	J	400	ASN
1	J	405	ASP
1	J	407	LEU
1	J	409	ASN
1	J	412	PHE
1	J	414	LEU
1	J	415	ASN
1	J	421	SER
1	J	429	THR
1	J	436	GLU
1	J	439	GLU
1	J	441	GLU
1	J	444	ASP
1	J	446	ILE
1	J	449	GLN
1	J	450	ASN
1	J	453	CYS
1	J	454	LYS
1	J	456	ASN
1	J	462	ILE
1	J	473	LEU
1	J	476	ASN
1	J	483	ASP
1	J	500	THR
1	J	505	ASN
1	J	508	VAL
1	J	519	ASN
1	J	520	ILE
1	J	530	ASP
1	J	531	ASN
1	J	537	HIS
1	J	539	ARG
1	J	544	ARG
1	J	564	GLN
1	J	567	PHE
1	J	571	ASN
1	J	573	LEU

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Mol	Chain	Res	Type
1	J	574	LEU
1	J	584	ASN
1	J	587	LYS
1	J	590	ASN
1	J	592	ILE
1	J	593	LEU
1	J	602	ARG
1	J	604	ASP
1	J	607	SER
1	J	609	ARG
1	J	611	ASP
1	J	615	LEU
1	J	624	HIS
1	J	634	LEU
1	J	637	ASP
1	J	651	ASN
1	J	652	MET
1	J	653	LEU
1	J	661	THR
1	J	663	VAL
1	J	669	SER
1	J	675	PHE
1	J	676	ARG
1	J	679	SER
1	J	682	ARG
1	J	685	THR
1	J	695	PHE
1	J	708	LEU
1	J	711	THR
1	J	714	LEU
1	J	719	LYS
1	J	721	VAL
1	J	723	ILE
1	J	724	MET
1	J	726	ASP
1	J	727	SER
1	J	735	ASP
1	J	738	LEU
1	J	739	THR
1	J	741	ASN
1	J	742	GLU
1	J	744	GLU

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Mol	Chain	Res	Type
1	J	745	ILE
1	J	750	ASP
1	J	755	ASN
1	J	756	VAL
1	J	758	GLN
1	J	759	CYS
1	J	762	THR
1	J	769	GLN
1	J	771	LEU
1	J	774	TYR
1	J	775	ASN
1	J	776	ILE
1	J	779	GLN
1	J	787	TYR
1	J	789	ASP
1	J	791	MET
1	J	803	ARG
1	J	804	GLN
1	J	805	VAL
1	J	806	VAL
1	J	807	ASP
1	J	817	VAL
1	J	818	THR
1	J	822	GLN
1	J	828	PHE
1	J	836	MET
1	J	837	ARG
1	J	840	GLN
1	J	853	GLN
1	J	860	THR
1	J	862	LYS
1	J	863	LYS
1	J	865	LEU
1	J	866	CYS
1	J	880	MET
1	J	882	MET
1	J	886	THR
1	J	887	ASP
1	J	902	ASP
1	J	906	GLU
1	J	907	VAL
1	J	911	ASP

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Mol	Chain	Res	Type
1	J	918	LEU
1	J	919	LEU
1	J	925	VAL
1	J	926	VAL
1	J	929	HIS
1	J	930	GLN
1	J	939	VAL
1	J	943	THR
1	K	3	THR
1	K	5	SER
1	K	6	MET
1	K	9	GLN
1	K	10	TRP
1	K	18	GLN
1	K	19	ASP
1	K	24	LEU
1	K	25	SER
1	K	30	GLN
1	K	31	PHE
1	K	43	ASN
1	K	45	PHE
1	K	47	ASN
1	K	55	ASP
1	K	59	ASP
1	K	64	LEU
1	K	67	ARG
1	K	69	VAL
1	K	74	GLU
1	K	84	PHE
1	K	91	ASN
1	K	92	ARG
1	K	93	VAL
1	K	96	MET
1	K	119	THR
1	K	121	TYR
1	K	131	ASN
1	K	133	SER
1	K	136	GLU
1	K	137	THR
1	K	139	GLU
1	K	149	GLN
1	K	153	VAL

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Mol	Chain	Res	Type
1	K	156	THR
1	K	165	ILE
1	K	166	ASN
1	K	178	GLU
1	K	190	ASP
1	K	194	GLN
1	K	196	GLU
1	K	201	GLU
1	K	204	TRP
1	K	207	ASN
1	K	210	PHE
1	K	218	LYS
1	K	228	SER
1	K	229	PHE
1	K	235	GLU
1	K	236	LYS
1	K	243	LYS
1	K	245	VAL
1	K	246	ASN
1	K	249	GLU
1	K	253	ASP
1	K	282	ILE
1	K	287	ASN
1	K	289	ASN
1	K	290	LEU
1	K	294	ASP
1	K	295	THR
1	K	304	SER
1	K	310	ILE
1	K	313	VAL
1	K	314	GLN
1	K	315	GLN
1	K	316	SER
1	K	322	ASN
1	K	327	ARG
1	K	333	LEU
1	K	337	ASN
1	K	341	ASN
1	K	352	LEU
1	K	356	VAL
1	K	357	ASP
1	K	358	LEU

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Mol	Chain	Res	Type
1	K	361	ARG
1	K	362	ASN
1	K	364	GLU
1	K	366	SER
1	K	372	ASP
1	K	377	ARG
1	K	384	TRP
1	K	385	ASN
1	K	391	TYR
1	K	396	ARG
1	K	403	VAL
1	K	407	LEU
1	K	409	ASN
1	K	422	THR
1	K	426	VAL
1	K	438	SER
1	K	441	GLU
1	K	443	ASP
1	K	444	ASP
1	K	448	ARG
1	K	454	LYS
1	K	456	ASN
1	K	457	VAL
1	K	461	GLU
1	K	462	ILE
1	K	464	LEU
1	K	469	TRP
1	K	470	LYS
1	K	472	PHE
1	K	475	SER
1	K	477	VAL
1	K	485	TYR
1	K	507	ARG
1	K	509	VAL
1	K	523	ARG
1	K	526	LEU
1	K	531	ASN
1	K	532	VAL
1	K	534	PRO
1	K	536	ASN
1	K	544	ARG
1	K	545	TYR

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Mol	Chain	Res	Type
1	K	548	MET
1	K	552	ASN
1	K	573	LEU
1	K	574	LEU
1	K	580	THR
1	K	582	GLU
1	K	584	ASN
1	K	590	ASN
1	K	594	GLN
1	K	596	SER
1	K	603	VAL
1	K	604	ASP
1	K	607	SER
1	K	613	VAL
1	K	618	THR
1	K	625	ASN
1	K	626	THR
1	K	631	GLU
1	K	635	ARG
1	K	636	ASN
1	K	637	ASP
1	K	640	ASP
1	K	642	SER
1	K	643	PHE
1	K	644	ASN
1	K	652	MET
1	K	659	LYS
1	K	661	THR
1	K	662	ASN
1	K	669	SER
1	K	678	TRP
1	K	683	LEU
1	K	685	THR
1	K	688	THR
1	K	691	LEU
1	K	693	SER
1	K	695	PHE
1	K	708	LEU
1	K	709	ASP
1	K	711	THR
1	K	712	PHE
1	K	715	ASN

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Mol	Chain	Res	Type
1	K	719	LYS
1	K	721	VAL
1	K	722	SER
1	K	725	PHE
1	K	726	ASP
1	K	727	SER
1	K	731	TRP
1	K	734	ASN
1	K	737	LEU
1	K	738	LEU
1	K	749	VAL
1	K	752	GLU
1	K	760	ASN
1	K	761	MET
1	K	762	THR
1	K	763	LYS
1	K	767	LEU
1	K	773	HIS
1	K	779	GLN
1	K	783	VAL
1	K	799	GLN
1	K	803	ARG
1	K	804	GLN
1	K	807	ASP
1	K	808	GLU
1	K	821	PHE
1	K	822	GLN
1	K	825	ASN
1	K	836	MET
1	K	837	ARG
1	K	853	GLN
1	K	854	THR
1	K	860	THR
1	K	861	GLN
1	K	862	LYS
1	K	863	LYS
1	K	867	ASP
1	K	872	ARG
1	K	877	SER
1	K	881	SER
1	K	882	MET
1	K	886	THR

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Mol	Chain	Res	Type
1	K	887	ASP
1	K	890	GLN
1	K	897	SER
1	K	902	ASP
1	K	903	MET
1	K	916	LEU
1	K	921	GLU
1	K	935	VAL
1	K	941	LEU
1	K	949	ASN
1	L	13	MET
1	L	24	LEU
1	L	31	PHE
1	L	36	ASP
1	L	40	SER
1	L	44	LYS
1	L	46	ARG
1	L	50	VAL
1	L	56	VAL
1	L	57	THR
1	L	69	VAL
1	L	77	THR
1	L	79	LEU
1	L	88	VAL
1	L	90	ASP
1	L	92	ARG
1	L	93	VAL
1	L	94	LEU
1	L	99	THR
1	L	104	ARG
1	L	108	ASP
1	L	112	SER
1	L	115	PRO
1	L	124	LEU
1	L	131	ASN
1	L	169	ASN
1	L	172	LEU
1	L	178	GLU
1	L	190	ASP
1	L	193	PHE
1	L	196	GLU
1	L	201	GLU

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Mol	Chain	Res	Type
1	L	202	GLU
1	L	203	ASN
1	L	207	ASN
1	L	217	LYS
1	L	219	ASP
1	L	222	MET
1	L	235	GLU
1	L	236	LYS
1	L	246	ASN
1	L	247	GLU
1	L	255	ASP
1	L	256	ILE
1	L	257	ASP
1	L	258	PHE
1	L	280	ASP
1	L	289	ASN
1	L	291	GLU
1	L	292	THR
1	L	298	VAL
1	L	303	THR
1	L	309	GLU
1	L	311	ASN
1	L	315	GLN
1	L	322	ASN
1	L	333	LEU
1	L	334	MET
1	L	345	LEU
1	L	350	SER
1	L	357	ASP
1	L	365	LEU
1	L	372	ASP
1	L	386	SER
1	L	398	ILE
1	L	399	GLU
1	L	407	LEU
1	L	409	ASN
1	L	424	GLN
1	L	438	SER
1	L	440	TRP
1	L	447	SER
1	L	448	ARG
1	L	450	ASN

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Mol	Chain	Res	Type
1	L	453	CYS
1	L	454	LYS
1	L	464	LEU
1	L	465	GLN
1	L	469	TRP
1	L	475	SER
1	L	477	VAL
1	L	492	VAL
1	L	493	LYS
1	L	500	THR
1	L	502	GLU
1	L	507	ARG
1	L	508	VAL
1	L	512	SER
1	L	514	VAL
1	L	526	LEU
1	L	529	MET
1	L	530	ASP
1	L	531	ASN
1	L	533	ASN
1	L	537	HIS
1	L	544	ARG
1	L	555	TYR
1	L	561	GLN
1	L	567	PHE
1	L	571	ASN
1	L	583	TRP
1	L	586	ARG
1	L	590	ASN
1	L	591	MET
1	L	592	ILE
1	L	595	SER
1	L	596	SER
1	L	601	LEU
1	L	609	ARG
1	L	611	ASP
1	L	613	VAL
1	L	614	ASN
1	L	619	PHE
1	L	631	GLU
1	L	633	MET
1	L	635	ARG

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Mol	Chain	Res	Type
1	L	637	ASP
1	L	638	THR
1	L	643	PHE
1	L	647	LEU
1	L	652	MET
1	L	653	LEU
1	L	661	THR
1	L	666	SER
1	L	678	TRP
1	L	690	SER
1	L	693	SER
1	L	701	TYR
1	L	708	LEU
1	L	712	PHE
1	L	715	ASN
1	L	720	LYS
1	L	724	MET
1	L	726	ASP
1	L	727	SER
1	L	729	VAL
1	L	730	SER
1	L	748	SER
1	L	756	VAL
1	L	759	CYS
1	L	761	MET
1	L	764	ASP
1	L	769	GLN
1	L	770	MET
1	L	774	TYR
1	L	789	ASP
1	L	797	ASN
1	L	798	PHE
1	L	803	ARG
1	L	807	ASP
1	L	810	ASN
1	L	812	LYS
1	L	814	TYR
1	L	828	PHE
1	L	835	THR
1	L	840	GLN
1	L	853	GLN
1	L	856	VAL

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Mol	Chain	Res	Type
1	L	864	PHE
1	L	865	LEU
1	L	868	ARG
1	L	870	MET
1	L	872	ARG
1	L	882	MET
1	L	891	ASN
1	L	896	ASN
1	L	897	SER
1	L	901	LEU
1	L	903	MET
1	L	908	ASP
1	L	910	MET
1	L	911	ASP
1	L	915	LEU
1	L	924	ASP
1	L	927	ARG
1	L	933	ARG
1	L	936	ILE
1	L	937	GLU
1	L	942	ARG
2	N	52	ASP
2	N	53	THR
2	N	54	THR
2	N	60	ASP
2	N	79	LEU
2	N	84	GLN
2	N	85	ASN
2	N	89	THR
2	N	98	ILE
2	N	99	ASN
2	N	104	SER
2	N	142	GLU
2	N	153	LYS
2	N	155	GLU
2	N	168	PHE
2	N	175	ASP
2	N	190	ARG
2	N	194	VAL
2	N	198	ASP
2	N	247	ARG
2	N	248	LEU

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Mol	Chain	Res	Type
2	N	254	ILE
2	N	262	GLU
2	N	265	ARG
2	N	266	ILE
2	N	287	GLU
2	N	292	VAL
2	N	324	LYS
2	N	325	LYS
2	N	326	VAL
2	N	336	SER
2	N	342	LEU
2	N	362	ASP
2	N	364	GLU
2	N	373	LEU
2	N	383	GLU
2	N	405	VAL
2	N	416	MET
2	N	424	TYR
2	N	430	TYR
2	N	439	SER
2	N	440	LEU
2	N	450	ASN
2	N	452	ILE
2	N	454	CYS
2	N	465	SER
2	N	467	ASN
2	N	474	HIS
2	N	477	LEU
2	N	488	ARG
2	N	496	ARG
2	N	497	ARG
2	N	498	THR
2	N	499	CYS
2	N	503	TYR
2	N	504	LYS
2	N	512	ARG
2	N	518	THR
3	O	4	ARG
3	O	10	ASP
4	M	34	MET
4	M	58	GLU
4	M	64	ARG

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Mol	Chain	Res	Type
4	M	65	THR
4	M	88	ASP
4	M	97	LEU
4	M	110	GLN
4	M	114	ASP
4	M	133	GLU
4	M	144	PHE
4	M	148	GLN
4	M	151	ASN
4	M	152	VAL
4	M	180	GLN
4	M	186	PHE
4	M	192	GLN
4	M	197	VAL
4	M	203	PHE
4	M	206	LEU
4	M	210	TRP
4	M	212	VAL
4	M	220	SER
4	M	221	THR
4	M	223	SER
4	M	229	ASN
4	M	235	LEU
4	M	242	ASP
4	M	248	ARG
4	M	250	SER
4	M	281	ARG
4	M	334	GLU
4	M	353	MET
4	M	360	PHE
4	M	374	MET
4	M	377	ASP
4	M	378	TYR
4	M	385	ASN
4	M	389	LEU
5	P	2	ASN
5	P	14	SER
5	P	17	LEU
5	P	20	ARG
5	P	29	GLN
5	P	32	MET
5	P	36	VAL

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Mol	Chain	Res	Type
5	P	41	VAL
5	P	56	ASN
5	P	57	SER
5	P	59	LEU
5	P	105	LEU
5	Q	20	ARG
5	Q	24	TRP
5	Q	27	VAL
5	Q	28	ARG
5	Q	30	ASN
5	Q	36	VAL
5	Q	37	ASP
5	Q	42	LEU
5	Q	45	ASN
5	Q	47	SER
5	Q	49	MET
5	Q	53	THR
5	Q	57	SER
5	Q	60	ASP
5	Q	62	THR
5	Q	126	ARG
5	R	4	THR
5	R	12	LEU
5	R	14	SER
5	R	16	TYR
5	R	19	THR
5	R	20	ARG
5	R	24	TRP
5	R	27	VAL
5	R	30	ASN
5	R	36	VAL
5	R	42	LEU
5	R	48	THR
5	R	49	MET
5	R	50	THR
5	R	51	TYR
5	R	77	LEU
5	R	81	TYR
5	R	82	MET
5	R	88	SER
5	R	90	SER
5	R	118	LEU

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Mol	Chain	Res	Type
5	S	9	GLU
5	S	17	LEU
5	S	31	VAL
5	S	32	MET
5	S	34	SER
5	S	35	THR
5	S	36	VAL
5	S	46	SER
5	S	47	SER
5	S	56	ASN
5	S	72	MET
5	S	76	ARG
5	S	80	SER
5	S	118	LEU
5	S	119	THR
5	S	120	GLN
5	S	121	GLN
5	S	130	GLN
6	U	3	LYS
6	U	4	GLU
6	U	5	ILE
6	U	6	PRO
6	U	10	MET
6	U	14	GLN
6	U	17	MET
6	U	24	SER
6	U	29	THR
6	U	41	ILE
6	U	47	VAL
6	U	53	GLN
6	U	57	GLU
6	U	63	SER
6	U	64	THR
6	U	66	ARG
6	U	70	ASN
6	U	72	ARG
6	U	77	THR
6	U	93	ARG
6	U	107	GLN
6	U	159	ARG
6	U	160	SER
6	U	179	ARG

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Mol	Chain	Res	Type
6	U	180	SER
6	U	185	THR
6	U	189	VAL
6	U	198	PHE
6	U	204	SER
6	U	208	TYR
6	U	215	ASN
6	U	220	ARG
6	U	226	TYR
6	V	3	LYS
6	V	17	MET
6	V	19	LEU
6	V	28	SER
6	V	35	SER
6	V	51	ARG
6	V	53	GLN
6	V	54	ILE
6	V	58	GLN
6	V	63	SER
6	V	69	LEU
6	V	72	ARG
6	V	73	ASN
6	V	77	THR
6	V	83	ILE
6	V	87	THR
6	V	88	THR
6	V	96	LEU
6	V	102	THR
6	V	108	LEU
6	V	163	THR
6	V	179	ARG
6	V	180	SER
6	V	185	THR
6	V	190	GLU
6	V	193	VAL
6	V	213	ILE
6	V	215	ASN
6	V	220	ARG
7	1	3	ASP
7	1	9	LEU
7	1	19	MET
7	1	22	TRP

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Mol	Chain	Res	Type
7	1	25	ILE
7	1	30	LEU
7	2	5	ASN
7	2	8	SER
7	2	9	LEU
7	2	13	HIS
7	2	15	THR
7	2	16	ARG
7	2	18	PHE
7	2	19	MET
7	2	23	ASN
7	3	4	ILE
7	3	8	SER
7	3	9	LEU
7	3	12	ARG
7	3	21	THR
7	3	28	SER
7	4	8	SER
7	4	13	HIS
7	4	16	ARG
7	4	21	THR
7	5	5	ASN
7	5	13	HIS
7	5	16	ARG
7	5	22	TRP
7	5	24	GLU
7	5	27	THR
7	6	23	ASN
7	7	23	ASN
7	8	8	SER
7	8	16	ARG
7	8	22	TRP
7	8	25	ILE
7	9	3	ASP
7	9	5	ASN
7	9	15	THR
7	9	19	MET
7	9	21	THR
7	9	23	ASN
7	9	25	ILE

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (513) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	131	ASN
1	A	149	GLN
1	A	166	ASN
1	A	169	ASN
1	A	239	GLN
1	A	246	ASN
1	A	341	ASN
1	A	368	GLN
1	A	415	ASN
1	A	456	ASN
1	A	467	ASN
1	A	476	ASN
1	A	497	ASN
1	A	505	ASN
1	A	533	ASN
1	A	537	HIS
1	A	571	ASN
1	A	644	ASN
1	A	651	ASN
1	A	662	ASN
1	A	715	ASN
1	A	769	GLN
1	A	779	GLN
1	A	804	GLN
1	A	825	ASN
1	A	899	HIS
1	A	929	HIS
1	A	930	GLN
1	B	9	GLN
1	B	47	ASN
1	B	62	GLN
1	B	91	ASN
1	B	131	ASN
1	B	134	GLN
1	B	141	GLN
1	B	148	GLN
1	B	169	ASN
1	B	182	ASN
1	B	207	ASN
1	B	239	GLN
1	B	250	GLN
1	B	306	ASN
1	B	315	GLN

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Mol	Chain	Res	Type
1	B	337	ASN
1	B	348	GLN
1	B	368	GLN
1	B	401	HIS
1	B	409	ASN
1	B	449	GLN
1	B	450	ASN
1	B	465	GLN
1	B	467	ASN
1	B	499	ASN
1	B	533	ASN
1	B	536	ASN
1	B	540	ASN
1	B	564	GLN
1	B	584	ASN
1	B	644	ASN
1	B	715	ASN
1	B	773	HIS
1	B	797	ASN
1	B	804	GLN
1	B	822	GLN
1	B	825	ASN
1	B	838	GLN
1	B	890	GLN
1	C	166	ASN
1	C	169	ASN
1	C	194	GLN
1	C	203	ASN
1	C	246	ASN
1	C	250	GLN
1	C	359	GLN
1	C	385	ASN
1	C	409	ASN
1	C	424	GLN
1	C	449	GLN
1	C	450	ASN
1	C	476	ASN
1	C	491	ASN
1	C	497	ASN
1	C	505	ASN
1	C	519	ASN
1	C	533	ASN

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Mol	Chain	Res	Type
1	C	537	HIS
1	C	540	ASN
1	C	564	GLN
1	C	590	ASN
1	C	614	ASN
1	C	639	HIS
1	C	641	GLN
1	C	644	ASN
1	C	671	ASN
1	C	715	ASN
1	C	755	ASN
1	C	760	ASN
1	C	769	GLN
1	C	799	GLN
1	C	810	ASN
1	C	838	GLN
1	C	840	GLN
1	C	878	ASN
1	C	896	ASN
1	C	929	HIS
1	C	949	ASN
1	D	14	HIS
1	D	62	GLN
1	D	134	GLN
1	D	194	GLN
1	D	203	ASN
1	D	239	GLN
1	D	306	ASN
1	D	314	GLN
1	D	329	ASN
1	D	337	ASN
1	D	341	ASN
1	D	359	GLN
1	D	400	ASN
1	D	409	ASN
1	D	432	ASN
1	D	456	ASN
1	D	463	ASN
1	D	497	ASN
1	D	499	ASN
1	D	505	ASN
1	D	533	ASN

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Mol	Chain	Res	Type
1	D	552	ASN
1	D	559	HIS
1	D	571	ASN
1	D	584	ASN
1	D	644	ASN
1	D	662	ASN
1	D	769	GLN
1	D	773	HIS
1	D	822	GLN
1	D	825	ASN
1	D	838	GLN
1	D	861	GLN
1	E	14	HIS
1	E	131	ASN
1	E	134	GLN
1	E	141	GLN
1	E	169	ASN
1	E	182	ASN
1	E	239	GLN
1	E	246	ASN
1	E	311	ASN
1	E	315	GLN
1	E	322	ASN
1	E	329	ASN
1	E	362	ASN
1	E	424	GLN
1	E	450	ASN
1	E	456	ASN
1	E	465	GLN
1	E	476	ASN
1	E	552	ASN
1	E	571	ASN
1	E	584	ASN
1	E	590	ASN
1	E	594	GLN
1	E	614	ASN
1	E	636	ASN
1	E	641	GLN
1	E	644	ASN
1	E	715	ASN
1	E	734	ASN
1	E	773	HIS

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Mol	Chain	Res	Type
1	E	779	GLN
1	E	822	GLN
1	E	838	GLN
1	E	890	GLN
1	E	930	GLN
1	F	14	HIS
1	F	134	GLN
1	F	169	ASN
1	F	194	GLN
1	F	207	ASN
1	F	234	ASN
1	F	239	GLN
1	F	296	HIS
1	F	319	ASN
1	F	348	GLN
1	F	359	GLN
1	F	362	ASN
1	F	401	HIS
1	F	409	ASN
1	F	424	GLN
1	F	456	ASN
1	F	463	ASN
1	F	491	ASN
1	F	497	ASN
1	F	505	ASN
1	F	540	ASN
1	F	561	GLN
1	F	564	GLN
1	F	571	ASN
1	F	641	GLN
1	F	644	ASN
1	F	758	GLN
1	F	760	ASN
1	F	769	GLN
1	F	773	HIS
1	F	804	GLN
1	F	810	ASN
1	F	822	GLN
1	F	825	ASN
1	F	838	GLN
1	F	840	GLN
1	F	861	GLN

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Mol	Chain	Res	Type
1	F	890	GLN
1	F	891	ASN
1	F	899	HIS
1	F	930	GLN
1	G	9	GLN
1	G	43	ASN
1	G	91	ASN
1	G	134	GLN
1	G	194	GLN
1	G	203	ASN
1	G	239	GLN
1	G	296	HIS
1	G	314	GLN
1	G	315	GLN
1	G	319	ASN
1	G	322	ASN
1	G	341	ASN
1	G	359	GLN
1	G	362	ASN
1	G	385	ASN
1	G	400	ASN
1	G	415	ASN
1	G	449	GLN
1	G	450	ASN
1	G	463	ASN
1	G	497	ASN
1	G	531	ASN
1	G	540	ASN
1	G	625	ASN
1	G	644	ASN
1	G	662	ASN
1	G	671	ASN
1	G	769	GLN
1	G	773	HIS
1	G	804	GLN
1	G	822	GLN
1	G	825	ASN
1	G	861	GLN
1	G	878	ASN
1	G	891	ASN
1	G	932	HIS
1	H	131	ASN

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Mol	Chain	Res	Type
1	H	134	GLN
1	H	148	GLN
1	H	169	ASN
1	H	182	ASN
1	H	239	GLN
1	H	287	ASN
1	H	296	HIS
1	H	311	ASN
1	H	315	GLN
1	H	329	ASN
1	H	337	ASN
1	H	351	GLN
1	H	353	ASN
1	H	362	ASN
1	H	415	ASN
1	H	424	GLN
1	H	450	ASN
1	H	463	ASN
1	H	467	ASN
1	H	476	ASN
1	H	533	ASN
1	H	536	ASN
1	H	559	HIS
1	H	571	ASN
1	H	590	ASN
1	H	594	GLN
1	H	624	HIS
1	H	625	ASN
1	H	636	ASN
1	H	662	ASN
1	H	671	ASN
1	H	715	ASN
1	H	734	ASN
1	H	755	ASN
1	H	769	GLN
1	H	775	ASN
1	H	779	GLN
1	H	797	ASN
1	H	822	GLN
1	H	824	ASN
1	H	825	ASN
1	H	840	GLN

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Mol	Chain	Res	Type
1	H	853	GLN
1	H	890	GLN
1	H	896	ASN
1	H	930	GLN
1	I	14	HIS
1	I	148	GLN
1	I	149	GLN
1	I	170	GLN
1	I	194	GLN
1	I	203	ASN
1	I	205	GLN
1	I	315	GLN
1	I	329	ASN
1	I	351	GLN
1	I	359	GLN
1	I	362	ASN
1	I	368	GLN
1	I	385	ASN
1	I	409	ASN
1	I	415	ASN
1	I	424	GLN
1	I	451	GLN
1	I	491	ASN
1	I	497	ASN
1	I	499	ASN
1	I	505	ASN
1	I	537	HIS
1	I	564	GLN
1	I	571	ASN
1	I	584	ASN
1	I	590	ASN
1	I	594	GLN
1	I	599	ASN
1	I	644	ASN
1	I	715	ASN
1	I	734	ASN
1	I	769	GLN
1	I	773	HIS
1	I	775	ASN
1	I	779	GLN
1	I	797	ASN
1	I	822	GLN

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Mol	Chain	Res	Type
1	I	825	ASN
1	I	838	GLN
1	I	840	GLN
1	I	890	GLN
1	I	891	ASN
1	J	18	GLN
1	J	43	ASN
1	J	47	ASN
1	J	54	HIS
1	J	62	GLN
1	J	91	ASN
1	J	131	ASN
1	J	149	GLN
1	J	166	ASN
1	J	194	GLN
1	J	198	GLN
1	J	239	GLN
1	J	319	ASN
1	J	329	ASN
1	J	353	ASN
1	J	385	ASN
1	J	415	ASN
1	J	456	ASN
1	J	463	ASN
1	J	499	ASN
1	J	505	ASN
1	J	536	ASN
1	J	540	ASN
1	J	590	ASN
1	J	614	ASN
1	J	624	HIS
1	J	636	ASN
1	J	644	ASN
1	J	758	GLN
1	J	769	GLN
1	J	779	GLN
1	J	822	GLN
1	J	853	GLN
1	J	861	GLN
1	J	930	GLN
1	K	9	GLN
1	K	43	ASN

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Mol	Chain	Res	Type
1	K	47	ASN
1	K	91	ASN
1	K	131	ASN
1	K	134	GLN
1	K	141	GLN
1	K	170	GLN
1	K	182	ASN
1	K	194	GLN
1	K	205	GLN
1	K	239	GLN
1	K	287	ASN
1	K	289	ASN
1	K	314	GLN
1	K	315	GLN
1	K	329	ASN
1	K	337	ASN
1	K	341	ASN
1	K	362	ASN
1	K	385	ASN
1	K	409	ASN
1	K	424	GLN
1	K	430	ASN
1	K	449	GLN
1	K	456	ASN
1	K	476	ASN
1	K	537	HIS
1	K	559	HIS
1	K	561	GLN
1	K	584	ASN
1	K	590	ASN
1	K	625	ASN
1	K	636	ASN
1	K	644	ASN
1	K	773	HIS
1	K	775	ASN
1	K	779	GLN
1	K	824	ASN
1	K	838	GLN
1	K	861	GLN
1	K	929	HIS
1	K	930	GLN
1	K	949	ASN

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Mol	Chain	Res	Type
1	L	43	ASN
1	L	54	HIS
1	L	169	ASN
1	L	182	ASN
1	L	205	GLN
1	L	239	GLN
1	L	311	ASN
1	L	315	GLN
1	L	319	ASN
1	L	322	ASN
1	L	341	ASN
1	L	351	GLN
1	L	362	ASN
1	L	401	HIS
1	L	409	ASN
1	L	424	GLN
1	L	450	ASN
1	L	476	ASN
1	L	505	ASN
1	L	533	ASN
1	L	561	GLN
1	L	564	GLN
1	L	590	ASN
1	L	594	GLN
1	L	599	ASN
1	L	639	HIS
1	L	644	ASN
1	L	651	ASN
1	L	715	ASN
1	L	734	ASN
1	L	769	GLN
1	L	782	HIS
1	L	797	ASN
1	L	799	GLN
1	L	822	GLN
1	L	824	ASN
1	L	838	GLN
1	L	840	GLN
1	L	890	GLN
1	L	891	ASN
1	L	896	ASN
1	L	929	HIS

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Mol	Chain	Res	Type
1	L	949	ASN
2	N	40	ASN
2	N	61	ASN
2	N	70	ASN
2	N	73	ASN
2	N	117	ASN
2	N	178	ASN
2	N	184	ASN
2	N	230	HIS
2	N	261	GLN
2	N	403	GLN
2	N	404	GLN
2	N	450	ASN
4	M	15	GLN
4	M	47	GLN
4	M	69	HIS
4	M	148	GLN
4	M	188	GLN
4	M	198	ASN
4	M	201	GLN
4	M	362	ASN
5	P	29	GLN
5	P	114	GLN
5	Q	45	ASN
5	Q	128	GLN
5	Q	129	GLN
5	Q	130	GLN
5	R	129	GLN
5	R	132	GLN
5	S	29	GLN
5	S	131	GLN
6	U	14	GLN
6	U	58	GLN
6	U	70	ASN
6	U	81	GLN
6	U	107	GLN
6	U	166	GLN
6	U	199	ASN
6	V	16	GLN
6	V	165	ASN
6	V	172	GLN
6	V	187	GLN

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Mol	Chain	Res	Type
6	V	215	ASN
7	3	5	ASN
7	3	23	ASN
7	4	5	ASN
7	5	23	ASN
7	6	23	ASN
7	8	23	ASN
7	9	23	ASN

5.3.3 RNA (i)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates (i)

There are no monosaccharides in this entry.

5.6 Ligand geometry (i)

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	B	4
1	A	2
1	J	2
1	H	2

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Mol	Chain	Number of breaks
1	G	1
1	D	1
1	E	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	A	179:THR	C	180:ALA	N	2.03
1	B	432:ASN	C	433:ASP	N	1.65
1	B	429:THR	C	430:ASN	N	1.19
1	J	276:GLU	C	277:TYR	N	1.19
1	G	776:ILE	C	777:GLY	N	1.18
1	J	279:ALA	C	280:ASP	N	1.18
1	B	433:ASP	C	434:GLY	N	1.16
1	D	294:ASP	C	295:THR	N	1.14
1	H	70:PRO	C	71:VAL	N	1.14
1	E	773:HIS	C	774:TYR	N	1.02
1	A	18:GLN	C	19:ASP	N	0.98
1	H	326:PHE	C	327:ARG	N	0.96
1	B	431:GLY	C	432:ASN	N	0.91

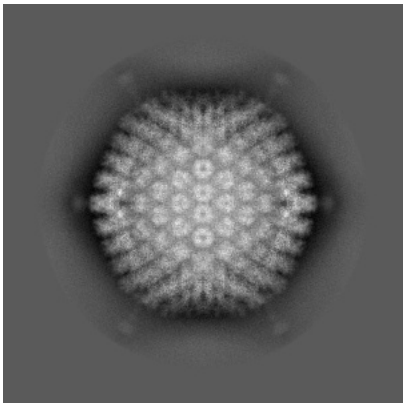
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-8471. These allow visual inspection of the internal detail of the map and identification of artifacts.

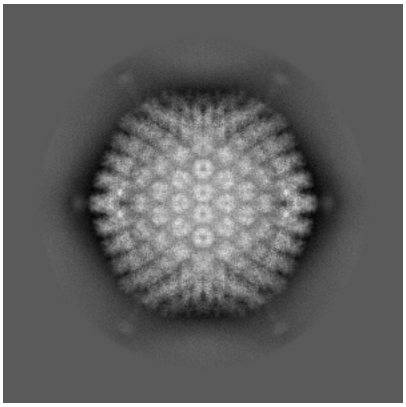
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections

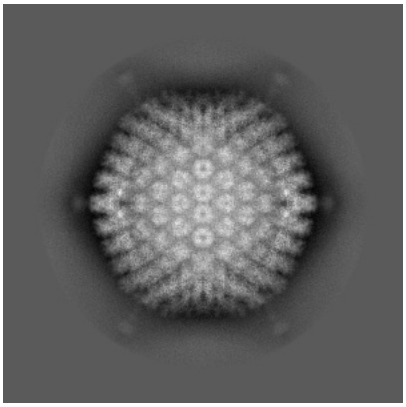
6.1.1 Primary map



X



Y

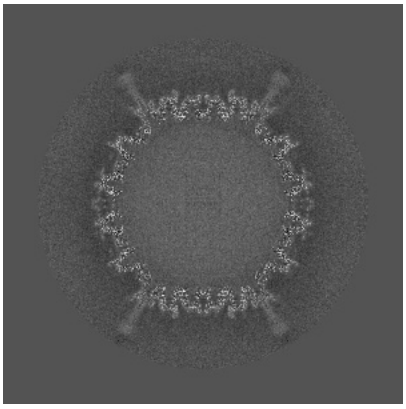


Z

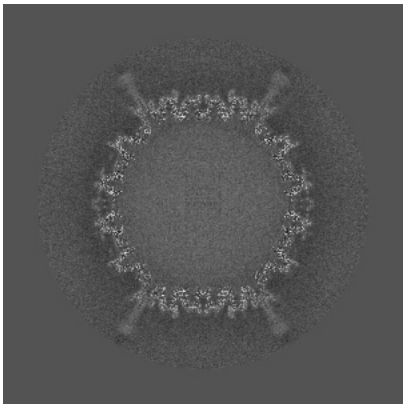
The images above show the map projected in three orthogonal directions.

6.2 Central slices

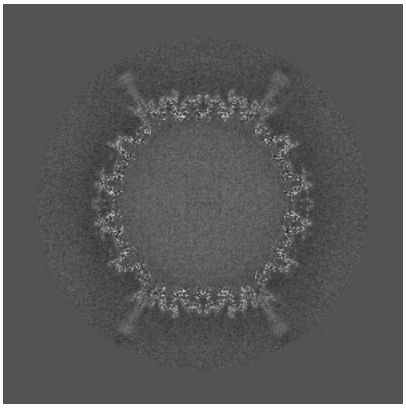
6.2.1 Primary map



X Index: 600



Y Index: 600

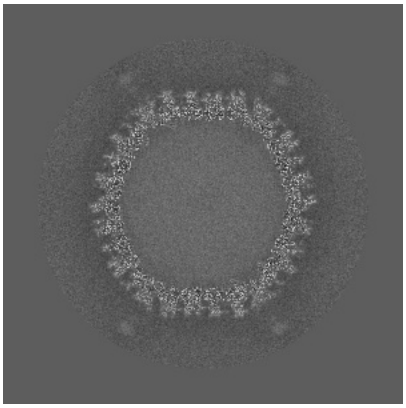


Z Index: 600

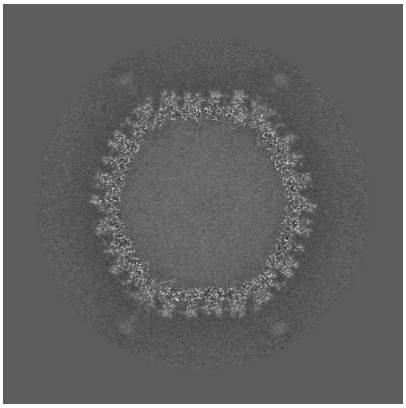
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

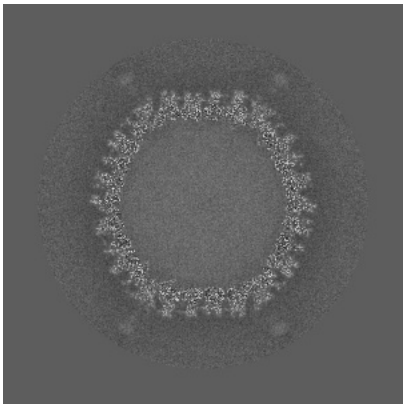
6.3.1 Primary map



X Index: 615



Y Index: 585

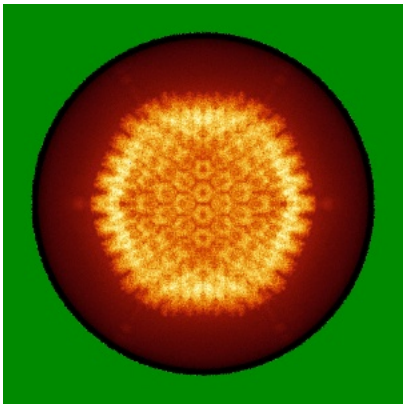


Z Index: 585

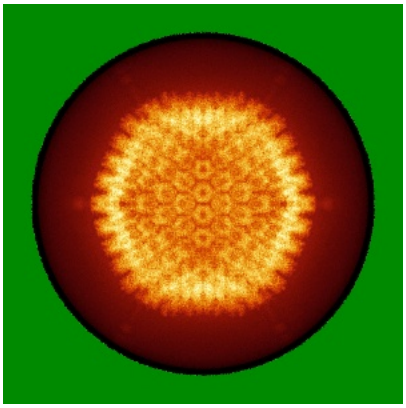
The images above show the largest variance slices of the map in three orthogonal directions.

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

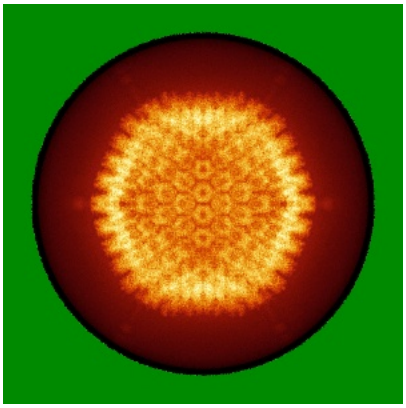
6.4.1 Primary map



X



Y

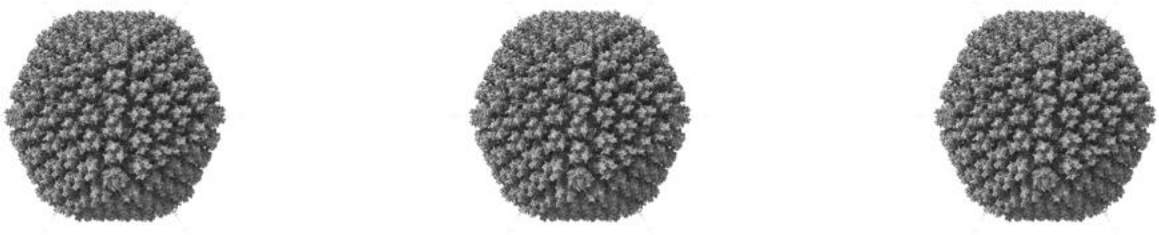


Z

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

6.5 Orthogonal surface views (i)

6.5.1 Primary map



X Y Z

The images above show the 3D surface view of the map at the recommended contour level 0.02. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

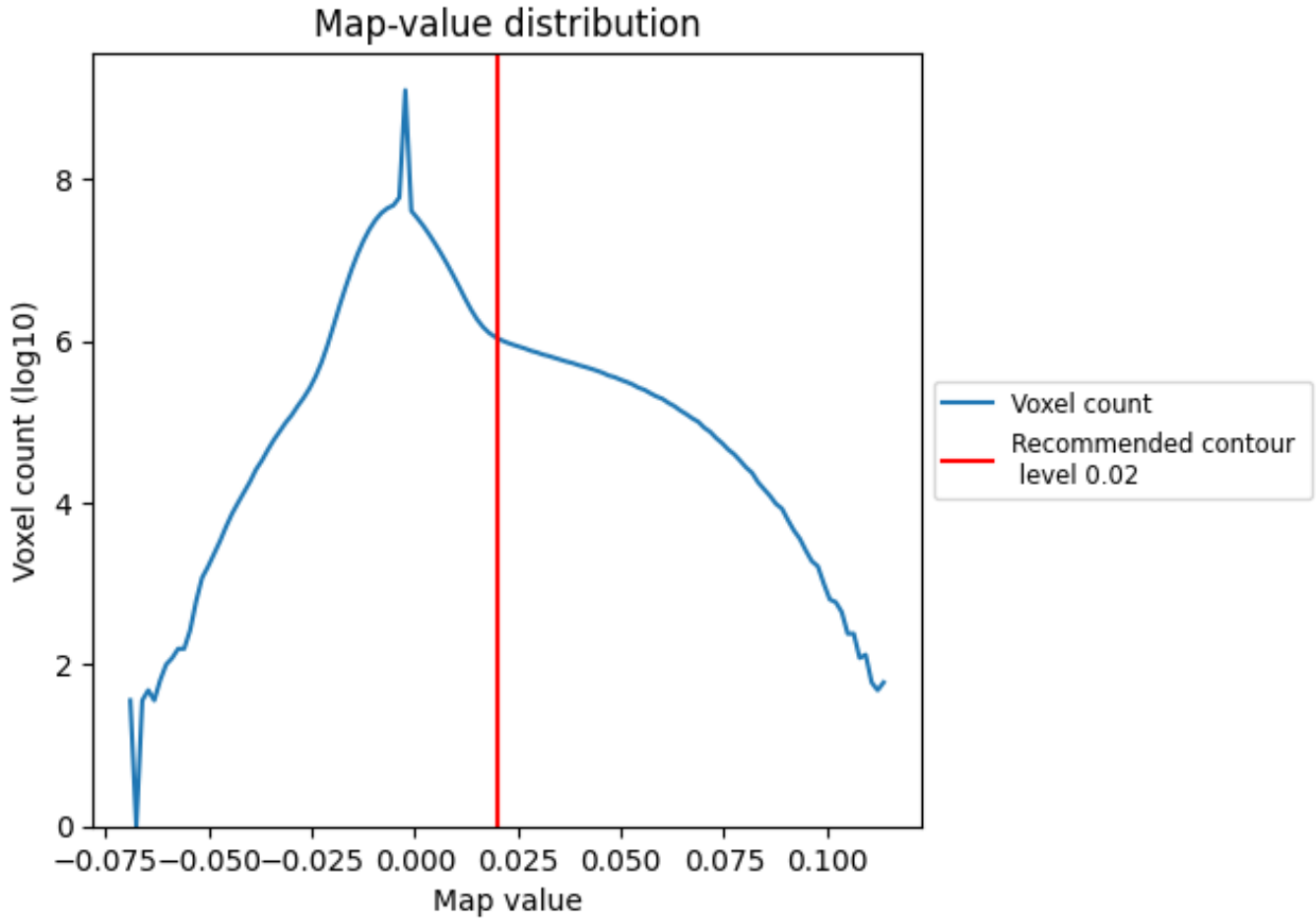
6.6 Mask visualisation (i)

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

7 Map analysis

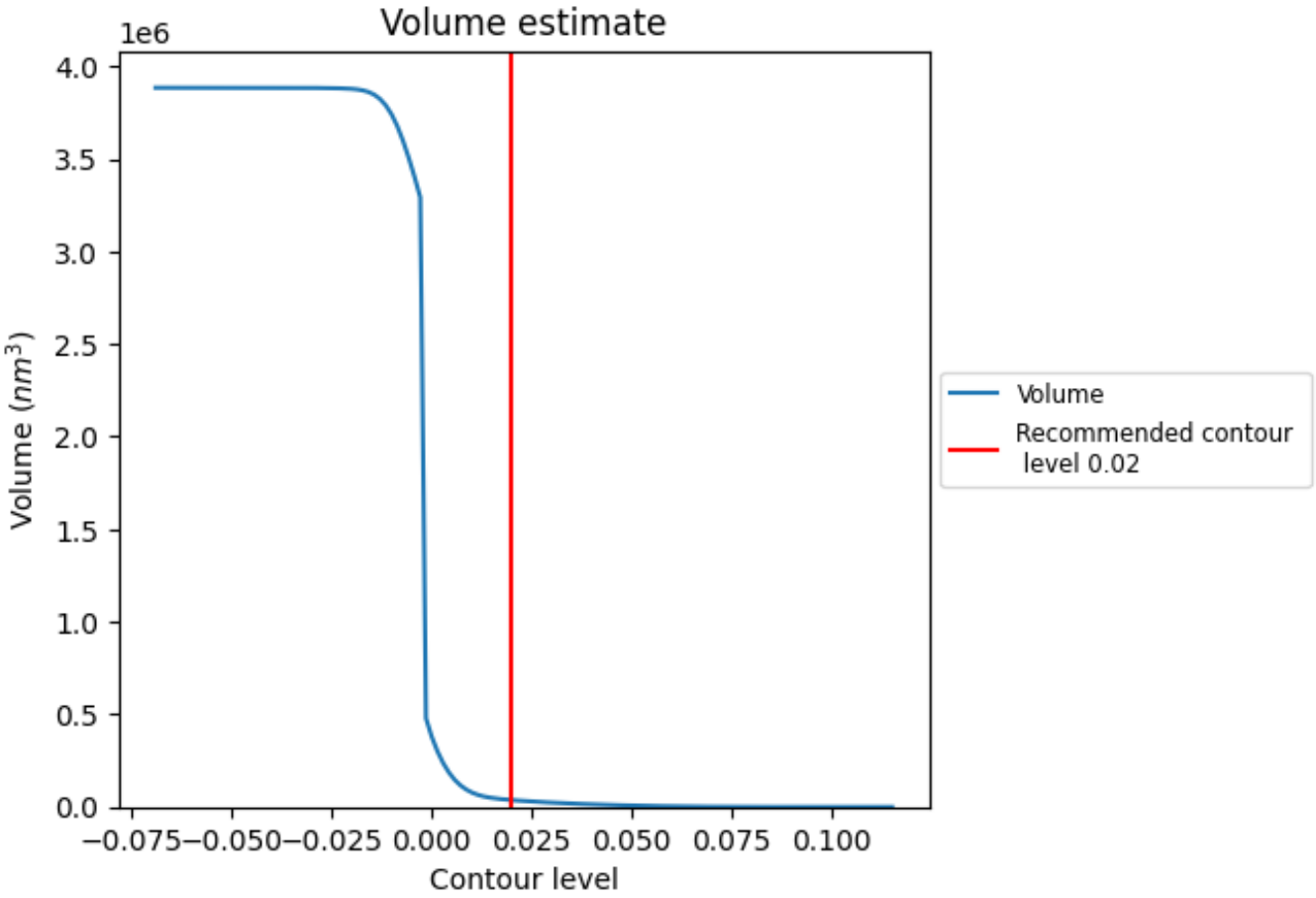
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution



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

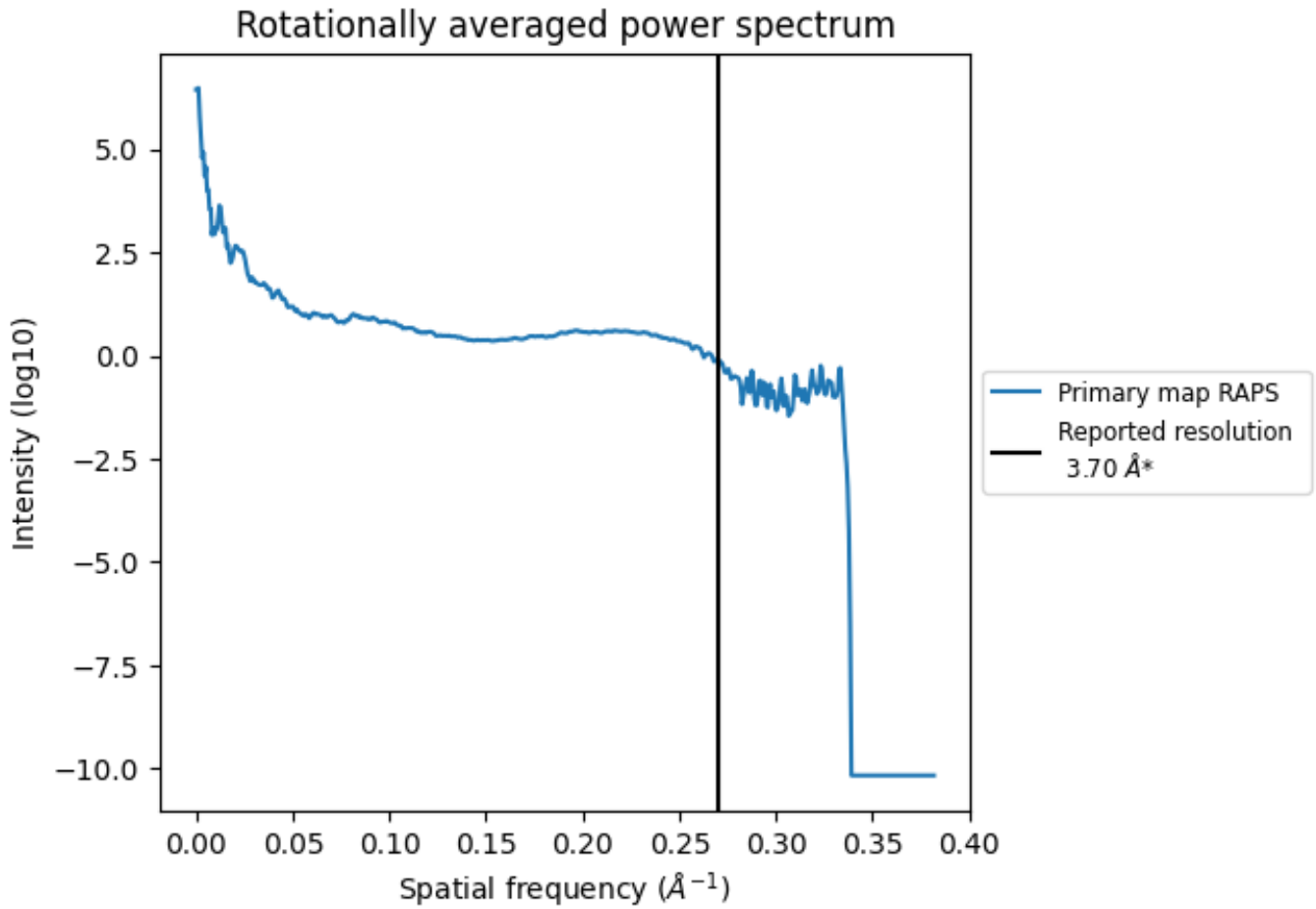
7.2 Volume estimate



The volume at the recommended contour level is 37384 nm^3; this corresponds to an approximate mass of 33770 kDa.

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

7.3 Rotationally averaged power spectrum (i)



*Reported resolution corresponds to spatial frequency of 0.270 $Å^{-1}$

8 Fourier-Shell correlation

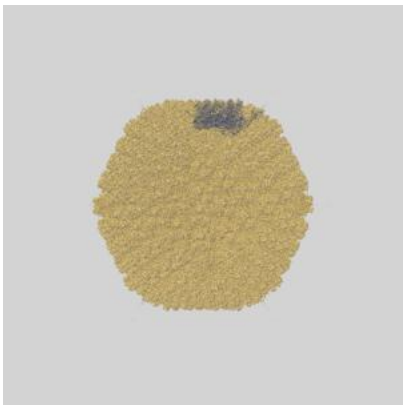
This section was not generated. No FSC curve or half-maps provided.

9 Map-model fit

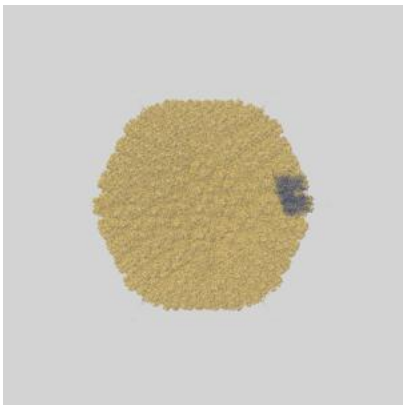
This section contains information regarding the fit between EMDB map EMD-8471 and PDB model 5TX1. Per-residue inclusion information can be found in section 3 on page 7.

9.1 Map-model overlays

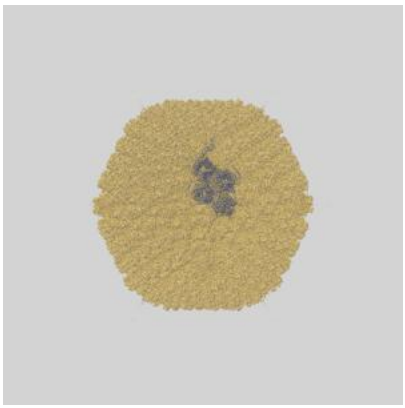
9.1.1 Map-model overlay



X

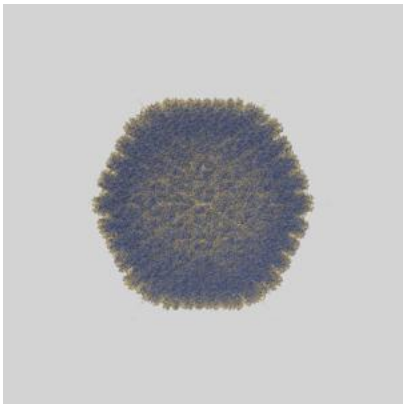


Y

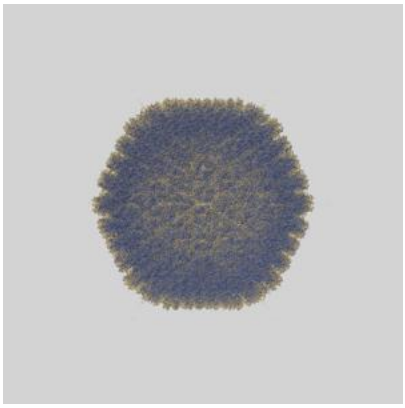


Z

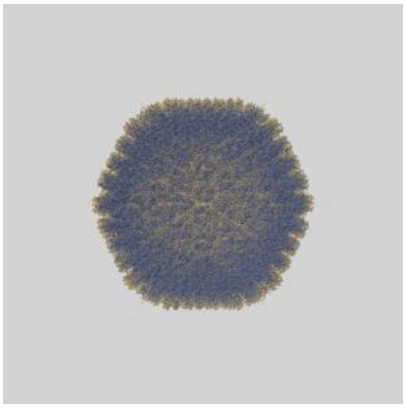
9.1.2 Map-model assembly overlay



X



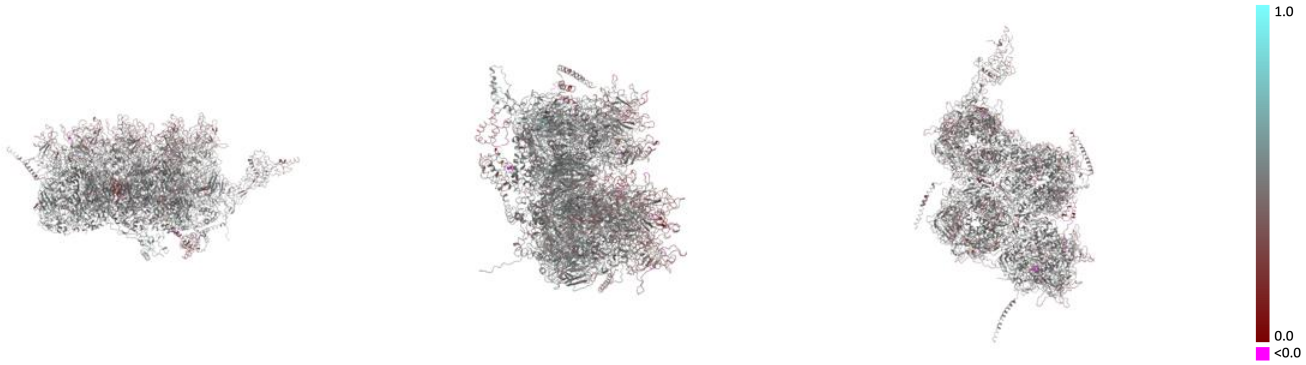
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.02 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

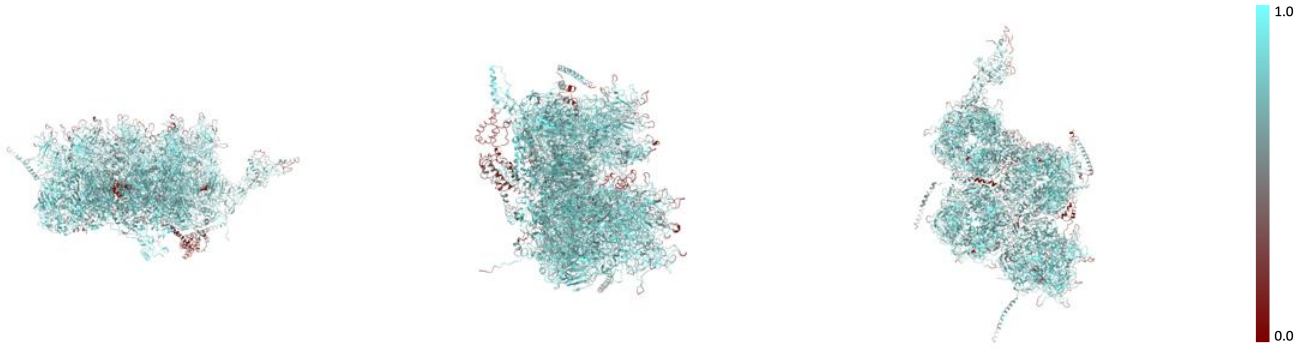
9.2 Q-score mapped to coordinate model



X Y Z

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

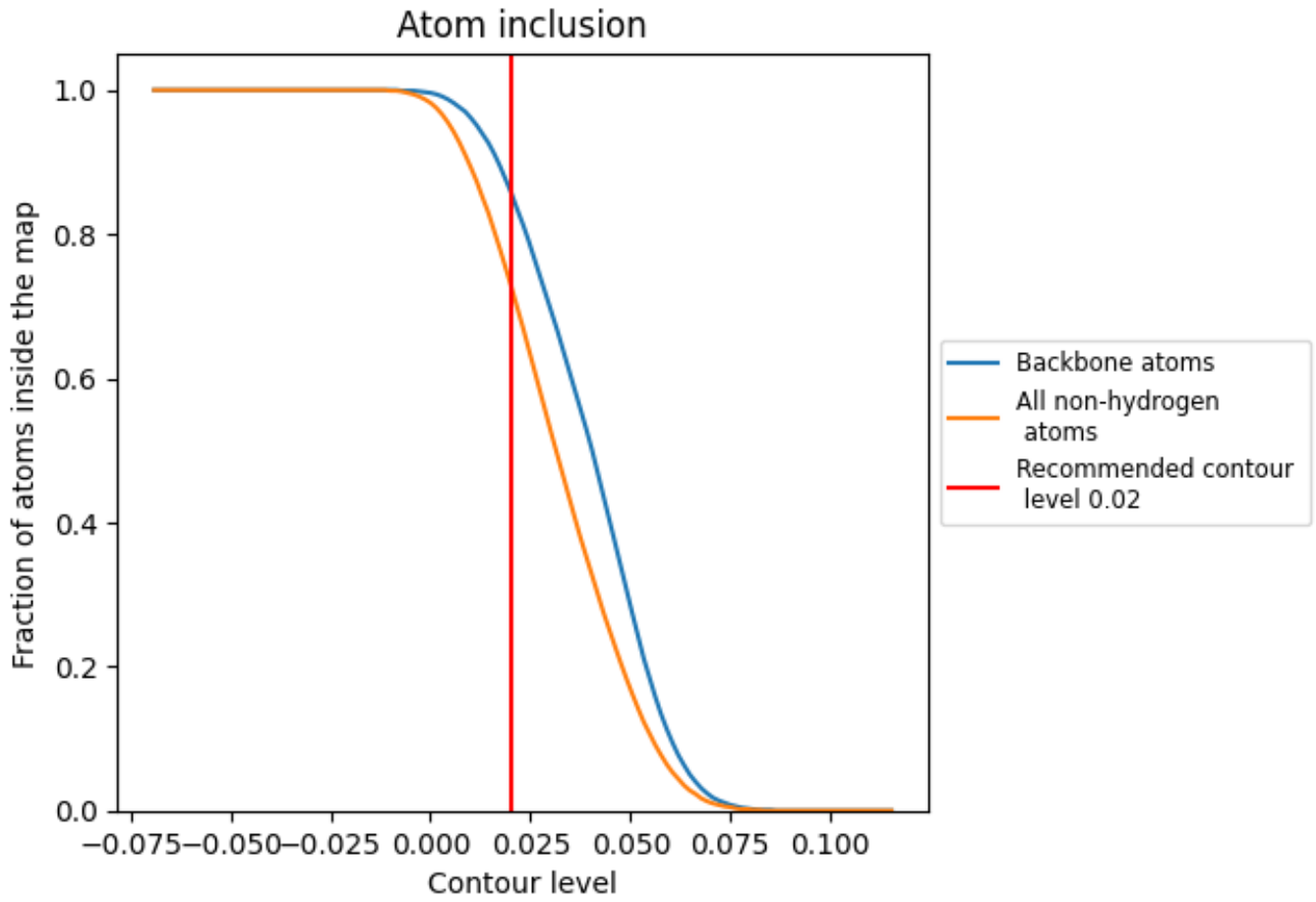
9.3 Atom inclusion mapped to coordinate model



X Y Z

The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.02).

9.4 Atom inclusion (i)



At the recommended contour level, 86% of all backbone atoms, 73% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary

The table lists the average atom inclusion at the recommended contour level (0.02) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.7310	0.4470
1	0.2640	0.3000
2	0.6410	0.4160
3	0.2180	0.3560
4	0.6070	0.3940
5	0.3250	0.3850
6	0.1070	0.3530
7	0.2280	0.3810
8	0.2380	0.3470
9	0.1570	0.3040
A	0.7550	0.4470
B	0.7530	0.4360
C	0.7670	0.4510
D	0.7620	0.4550
E	0.7620	0.4530
F	0.7740	0.4620
G	0.7790	0.4610
H	0.7740	0.4610
I	0.7780	0.4620
J	0.7730	0.4570
K	0.7670	0.4530
L	0.7720	0.4570
M	0.3330	0.3730
N	0.6280	0.4240
O	0.1160	0.3390
P	0.4590	0.3410
Q	0.4120	0.3280
R	0.5920	0.3940
S	0.4840	0.3420
U	0.7520	0.4900
V	0.7690	0.4900
X	0.1960	0.4500
Y	0.1760	0.3590
Z	0.3000	0.3330