



wwPDB EM Map/Model Validation Report ⓘ

Aug 30, 2016 – 11:18 AM EDT

PDB ID : 5GJR
EMDB ID: : EMD-9512
Title : An atomic structure of the human 26S proteasome
Authors : Huang, X.L.; Luan, B.; Wu, J.P.; Shi, Y.G.
Deposited on : 2016-07-01
Resolution : 3.50 Å(reported)

This is a wwPDB EM Map/Model Validation Report for a publicly released PDB/EMDB entry.
For rigid body fitted models, validation errors reported here could stem from errors in the original structure(s) used in the fitting.
We welcome your comments at validation@mail.wwpdb.org
A user guide is available at
<http://wwpdb.org/validation/2016/EMValidationReportHelp>

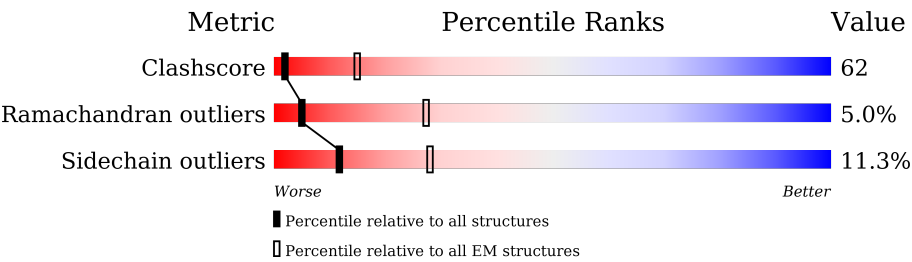
MolProbity : 4.02b-467
Mogul : 1.7.1 (RC1), CSD as537be (2016)
Percentile statistics : 20151230.v01 (using entries in the PDB archive December 30th 2015)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et. al. (1996)
Validation Pipeline (wwPDB-VP) : rb-20027939

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 3.50 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.





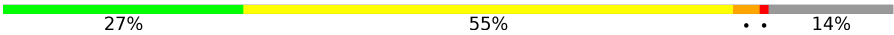
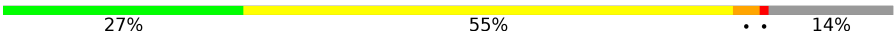


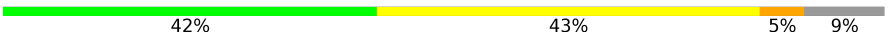
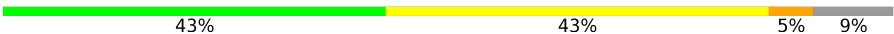
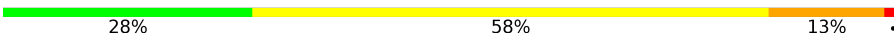
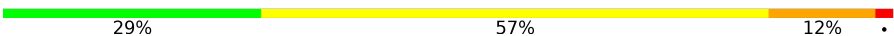
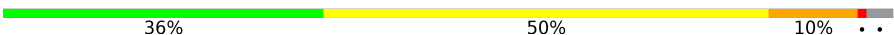
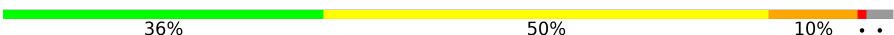


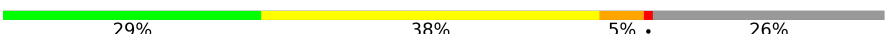
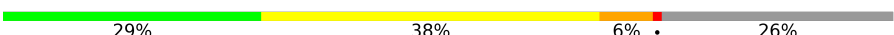


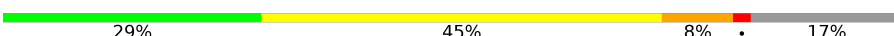




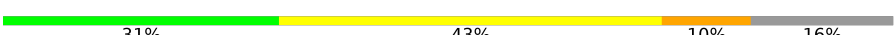
Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	114402	924
Ramachandran outliers	111179	726
Sidechain outliers	111093	686

The table below summarises the geometric issues observed across the polymeric chains. The red, orange, yellow and green segments on the bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$

Mol	Chain	Length	Quality of chain
1	I	440	<div><div>14%</div><div>52%</div><div>13%</div><div>•</div><div>18%</div></div>
1	w	440	<div><div>61%</div><div>18%</div><div>•</div><div>18%</div></div>
2	H	433	<div><div>18%</div><div>51%</div><div>16%</div><div>•</div><div>12%</div></div>
2	v	433	<div><div>65%</div><div>20%</div><div>•</div><div>12%</div></div>
3	L	389	<div><div>19%</div><div>58%</div><div>16%</div><div>•</div><div>•</div></div>
3	z	389	<div><div>73%</div><div>19%</div><div>•</div><div>•</div></div>
4	0	439	<div><div>20%</div><div>47%</div><div>17%</div><div>•</div><div>14%</div></div>
4	M	439	<div><div>19%</div><div>48%</div><div>17%</div><div>•</div><div>14%</div></div>
5	J	406	<div><div>17%</div><div>51%</div><div>17%</div><div>•</div><div>12%</div></div>




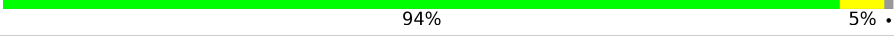




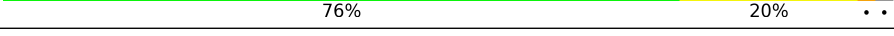
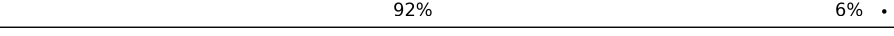
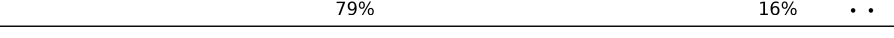
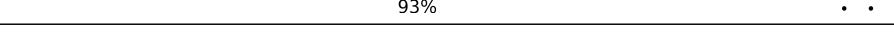

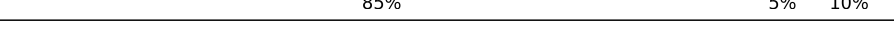


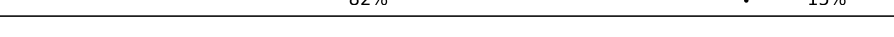

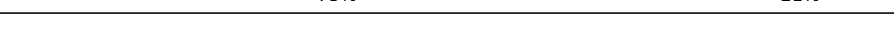






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Mol	Chain	Length	Quality of chain
5	x	406	
6	K	418	
6	y	418	
7	1	953	
7	N	953	
8	2	376	
8	O	376	
9	3	456	
9	P	456	
10	4	422	
10	Q	422	
11	5	389	
11	R	389	
12	6	525	
12	S	525	
13	7	350	
13	T	350	
14	8	324	
14	U	324	
15	9	310	
15	V	310	
16	AA	377	
16	W	377	
17	AB	70	
17	Y	70	




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Mol	Chain	Length	Quality of chain
18	AC	908	
18	Z	908	
19	B	246	
19	h	246	
20	C	234	
20	i	234	
21	D	261	
21	j	261	
22	E	248	
22	k	248	
23	F	241	
23	l	241	
24	G	263	
24	m	263	
25	X	255	
25	n	255	
26	a	239	
26	o	239	
27	b	277	
27	p	277	
28	c	205	
28	q	205	
29	d	201	
29	r	201	
30	e	263	

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Mol	Chain	Length	Quality of chain
30	s	263	 74% 24%
31	f	241	 85% 12%
31	t	241	 85% 12%
32	g	264	 77% 5% 18%
32	u	264	 77% 5% 18%

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

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
33	ADP	0	501	-	-	X	-
33	ADP	I	501	-	-	X	-
33	ADP	J	501	-	-	X	-
33	ADP	K	501	-	-	X	-
33	ADP	L	401	-	-	X	-
33	ADP	M	501	-	-	X	-

2 Entry composition

There are 33 unique types of molecules in this entry. The entry contains 142753 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 26S protease regulatory subunit 4.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	I	359	Total	C	N	O	S	0	0
			2720	1708	465	535	12		
1	w	359	Total	C	N	O	S	0	0
			2720	1708	465	535	12		

- Molecule 2 is a protein called 26S protease regulatory subunit 7.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	H	380	Total	C	N	O	S	0	0
			2893	1817	515	543	18		
2	v	380	Total	C	N	O	S	0	0
			2893	1817	515	543	18		

- Molecule 3 is a protein called 26S protease regulatory subunit 10B.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	L	375	Total	C	N	O	S	0	0
			2860	1796	512	536	16		
3	z	375	Total	C	N	O	S	0	0
			2860	1796	512	536	16		

- Molecule 4 is a protein called 26S protease regulatory subunit 6A.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	M	376	Total	C	N	O	S	0	0
			2858	1802	496	545	15		
4	0	376	Total	C	N	O	S	0	0
			2858	1802	496	545	15		

- Molecule 5 is a protein called 26S protease regulatory subunit 8.

Mol	Chain	Residues	Atoms					AltConf	Trace
5	J	358	Total	C	N	O	S	0	0
			2820	1780	506	518	16		
5	x	358	Total	C	N	O	S	0	0
			2820	1780	506	518	16		

- Molecule 6 is a protein called 26S protease regulatory subunit 6B.

Mol	Chain	Residues	Atoms					AltConf	Trace
6	K	380	Total	C	N	O	S	0	0
			3039	1923	524	579	13		
6	y	380	Total	C	N	O	S	0	0
			3039	1923	524	579	13		

- Molecule 7 is a protein called 26S proteasome non-ATPase regulatory subunit 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
7	N	821	Total	C	N	O	S	0	0
			5449	3491	931	1009	18		
7	1	821	Total	C	N	O	S	0	0
			5449	3491	931	1009	18		

- Molecule 8 is a protein called 26S proteasome non-ATPase regulatory subunit 13.

Mol	Chain	Residues	Atoms					AltConf	Trace
8	O	372	Total	C	N	O	S	0	0
			2369	1515	405	438	11		
8	2	372	Total	C	N	O	S	0	0
			2375	1521	405	438	11		

- Molecule 9 is a protein called 26S proteasome non-ATPase regulatory subunit 12.

Mol	Chain	Residues	Atoms					AltConf	Trace
9	P	413	Total	C	N	O	S	0	0
			2832	1821	489	516	6		
9	3	413	Total	C	N	O	S	0	0
			2831	1820	489	516	6		

- Molecule 10 is a protein called 26S proteasome non-ATPase regulatory subunit 11.

Mol	Chain	Residues	Atoms					AltConf	Trace
10	Q	421	Total	C	N	O	S	0	0
			2956	1866	512	569	9		

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Mol	Chain	Residues	Atoms					AltConf	Trace
10	4	421	Total	C	N	O	S	0	0
			2956	1866	512	569	9		

- Molecule 11 is a protein called 26S proteasome non-ATPase regulatory subunit 6.

Mol	Chain	Residues	Atoms					AltConf	Trace
11	R	376	Total	C	N	O	S	0	0
			2767	1794	461	504	8		
11	5	376	Total	C	N	O	S	0	0
			2770	1796	461	504	9		

- Molecule 12 is a protein called 26S proteasome non-ATPase regulatory subunit 3.

Mol	Chain	Residues	Atoms					AltConf	Trace
12	S	421	Total	C	N	O	S	0	0
			2723	1737	484	499	3		
12	6	421	Total	C	N	O	S	0	0
			2732	1741	487	501	3		

- Molecule 13 is a protein called 26S proteasome non-ATPase regulatory subunit 8.

Mol	Chain	Residues	Atoms					AltConf	Trace
13	T	258	Total	C	N	O	S	0	0
			1699	1099	280	315	5		
13	7	258	Total	C	N	O	S	0	0
			1699	1099	280	315	5		

- Molecule 14 is a protein called 26S proteasome non-ATPase regulatory subunit 7.

Mol	Chain	Residues	Atoms					AltConf	Trace
14	U	283	Total	C	N	O	S	0	0
			2131	1370	369	388	4		
14	8	283	Total	C	N	O	S	0	0
			2131	1370	369	388	4		

- Molecule 15 is a protein called 26S proteasome non-ATPase regulatory subunit 14.

Mol	Chain	Residues	Atoms					AltConf	Trace
15	V	257	Total	C	N	O	S	0	0
			2011	1276	341	377	17		
15	9	257	Total	C	N	O	S	0	0
			2009	1274	341	377	17		

- Molecule 16 is a protein called 26S proteasome non-ATPase regulatory subunit 4.

Mol	Chain	Residues	Atoms					AltConf	Trace
16	W	193	Total	C	N	O	S	0	0
			1300	818	228	250	4		
16	AA	193	Total	C	N	O	S	0	0
			1300	818	228	250	4		

- Molecule 17 is a protein called 26S proteasome complex subunit DSS1.

Mol	Chain	Residues	Atoms				AltConf	Trace
17	Y	59	Total	C	N	O	0	0
			316	191	60	65		
17	AB	59	Total	C	N	O	0	0
			316	191	60	65		

- Molecule 18 is a protein called 26S proteasome non-ATPase regulatory subunit 2.

Mol	Chain	Residues	Atoms				AltConf	Trace
18	Z	732	Total	C	N	O	0	0
			3608	2144	732	732		
18	AC	732	Total	C	N	O	0	0
			3608	2144	732	732		

- Molecule 19 is a protein called Proteasome subunit alpha type-6.

Mol	Chain	Residues	Atoms					AltConf	Trace
19	B	244	Total	C	N	O	S	0	0
			1845	1171	309	352	13		
19	h	244	Total	C	N	O	S	0	0
			1853	1177	311	352	13		

- Molecule 20 is a protein called Proteasome subunit alpha type-2.

Mol	Chain	Residues	Atoms					AltConf	Trace
20	C	231	Total	C	N	O	S	0	0
			1737	1106	289	336	6		
20	i	231	Total	C	N	O	S	0	0
			1744	1112	290	336	6		

- Molecule 21 is a protein called Proteasome subunit alpha type-4.

Mol	Chain	Residues	Atoms					AltConf	Trace
21	D	250	Total	C	N	O	S	0	0
			1916	1206	330	372	8		
21	j	250	Total	C	N	O	S	0	0
			1913	1203	330	372	8		

- Molecule 22 is a protein called Proteasome subunit alpha type-7.

Mol	Chain	Residues	Atoms					AltConf	Trace
22	E	243	Total	C	N	O	S	0	0
			1724	1068	312	339	5		
22	k	243	Total	C	N	O	S	0	0
			1691	1051	309	327	4		

- Molecule 23 is a protein called Proteasome subunit alpha type-5.

Mol	Chain	Residues	Atoms					AltConf	Trace
23	F	234	Total	C	N	O	S	0	0
			1766	1108	290	357	11		
23	l	234	Total	C	N	O	S	0	0
			1726	1107	291	317	11		

- Molecule 24 is a protein called Proteasome subunit alpha type-1.

Mol	Chain	Residues	Atoms					AltConf	Trace
24	G	238	Total	C	N	O	S	0	0
			1850	1159	334	346	11		
24	m	238	Total	C	N	O	S	0	0
			1850	1159	334	346	11		

- Molecule 25 is a protein called Proteasome subunit alpha type-3.

Mol	Chain	Residues	Atoms					AltConf	Trace
25	X	243	Total	C	N	O	S	0	0
			1873	1189	317	356	11		
25	n	243	Total	C	N	O	S	0	0
			1873	1189	317	356	11		

- Molecule 26 is a protein called Proteasome subunit beta type-6.

Mol	Chain	Residues	Atoms					AltConf	Trace
26	a	202	Total	C	N	O	S	0	0
			1509	945	258	294	12		

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Mol	Chain	Residues	Atoms					AltConf	Trace
26	o	202	Total	C	N	O	S	0	0
			1509	945	258	294	12		

- Molecule 27 is a protein called Proteasome subunit beta type-7.

Mol	Chain	Residues	Atoms					AltConf	Trace
27	b	220	Total	C	N	O	S	0	0
			1643	1033	280	318	12		
27	p	220	Total	C	N	O	S	0	0
			1643	1033	280	318	12		

- Molecule 28 is a protein called Proteasome subunit beta type-3.

Mol	Chain	Residues	Atoms					AltConf	Trace
28	c	204	Total	C	N	O	S	0	0
			1585	1010	262	294	19		
28	q	204	Total	C	N	O	S	0	0
			1585	1010	262	294	19		

- Molecule 29 is a protein called Proteasome subunit beta type-2.

Mol	Chain	Residues	Atoms					AltConf	Trace
29	d	199	Total	C	N	O	S	0	0
			1570	1006	265	290	9		
29	r	199	Total	C	N	O	S	0	0
			1570	1006	265	290	9		

- Molecule 30 is a protein called Proteasome subunit beta type-5.

Mol	Chain	Residues	Atoms					AltConf	Trace
30	e	201	Total	C	N	O	S	0	0
			1548	974	273	292	9		
30	s	201	Total	C	N	O	S	0	0
			1551	977	273	292	9		

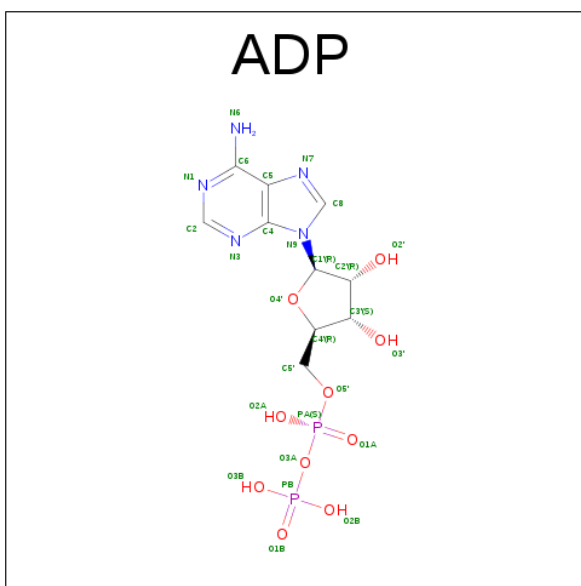
- Molecule 31 is a protein called Proteasome subunit beta type-1.

Mol	Chain	Residues	Atoms					AltConf	Trace
31	f	213	Total	C	N	O	S	0	0
			1644	1039	282	313	10		
31	t	213	Total	C	N	O	S	0	0
			1644	1039	282	313	10		

- Molecule 32 is a protein called Proteasome subunit beta type-4.

Mol	Chain	Residues	Atoms					AltConf	Trace
32	g	216	Total 1672	C 1055	N 286	O 319	S 12	0	0
32	u	217	Total 1678	C 1058	N 290	O 318	S 12	0	0

- Molecule 33 is ADENOSINE-5'-DIPHOSPHATE (three-letter code: ADP) (formula: $\text{C}_{10}\text{H}_{15}\text{N}_5\text{O}_{10}\text{P}_2$).



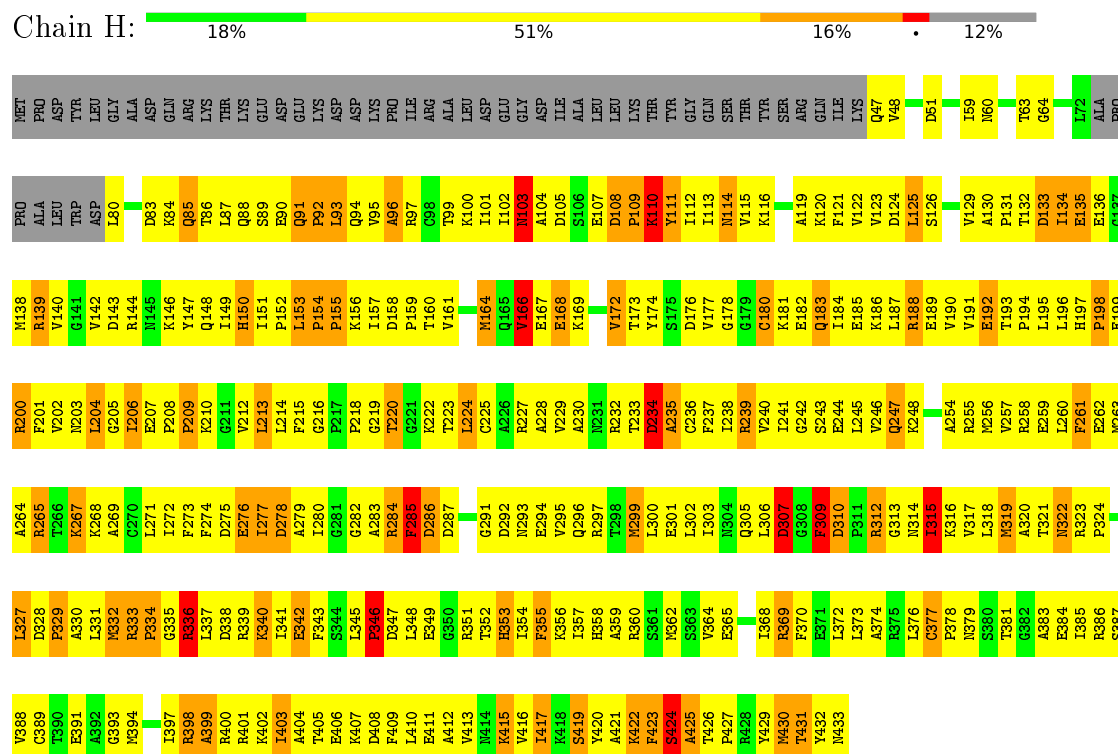
Mol	Chain	Residues	Atoms					AltConf
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33	H	1	Total 27	C 10	N 5	O 10	P 2	0
33	L	1	Total 27	C 10	N 5	O 10	P 2	0
33	M	1	Total 27	C 10	N 5	O 10	P 2	0
33	J	1	Total 27	C 10	N 5	O 10	P 2	0
33	K	1	Total 27	C 10	N 5	O 10	P 2	0
33	v	1	Total 27	C 10	N 5	O 10	P 2	0
33	w	1	Total 27	C 10	N 5	O 10	P 2	0

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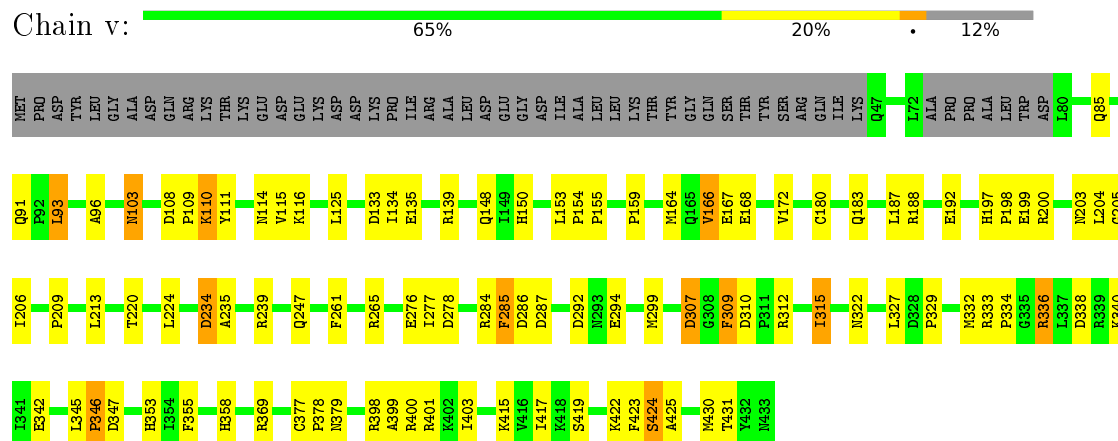
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Mol	Chain	Residues	Atoms					AltConf
33	x	1	Total	C	N	O	P	0
			27	10	5	10	2	
33	y	1	Total	C	N	O	P	0
			27	10	5	10	2	
33	z	1	Total	C	N	O	P	0
			27	10	5	10	2	
33	0	1	Total	C	N	O	P	0
			27	10	5	10	2	

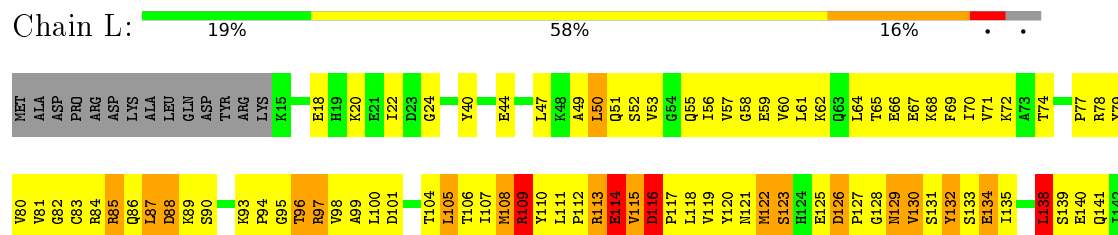
- Molecule 2: 26S protease regulatory subunit 7

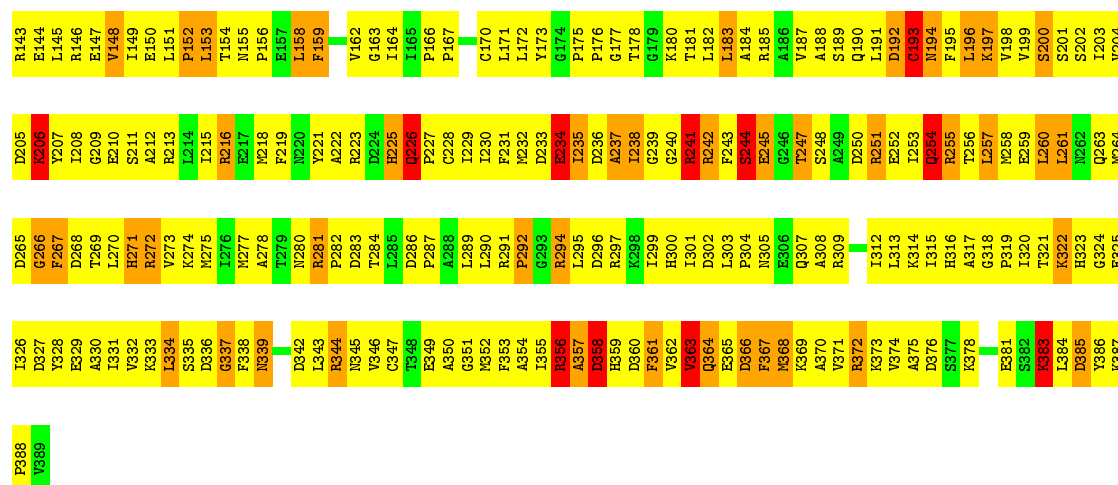


- Molecule 2: 26S protease regulatory subunit 7



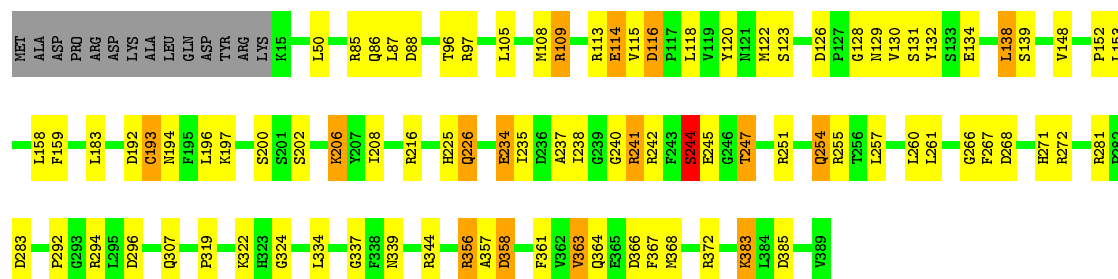
- Molecule 3: 26S protease regulatory subunit 10B





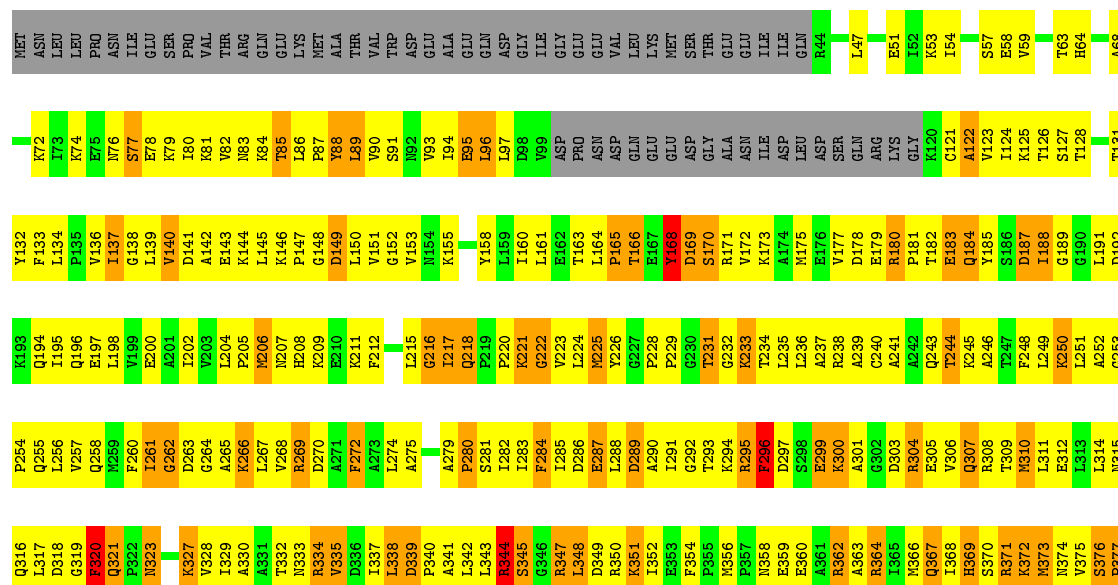
• Molecule 3: 26S protease regulatory subunit 10B

Chain z: 73% 19%



• Molecule 4: 26S protease regulatory subunit 6A

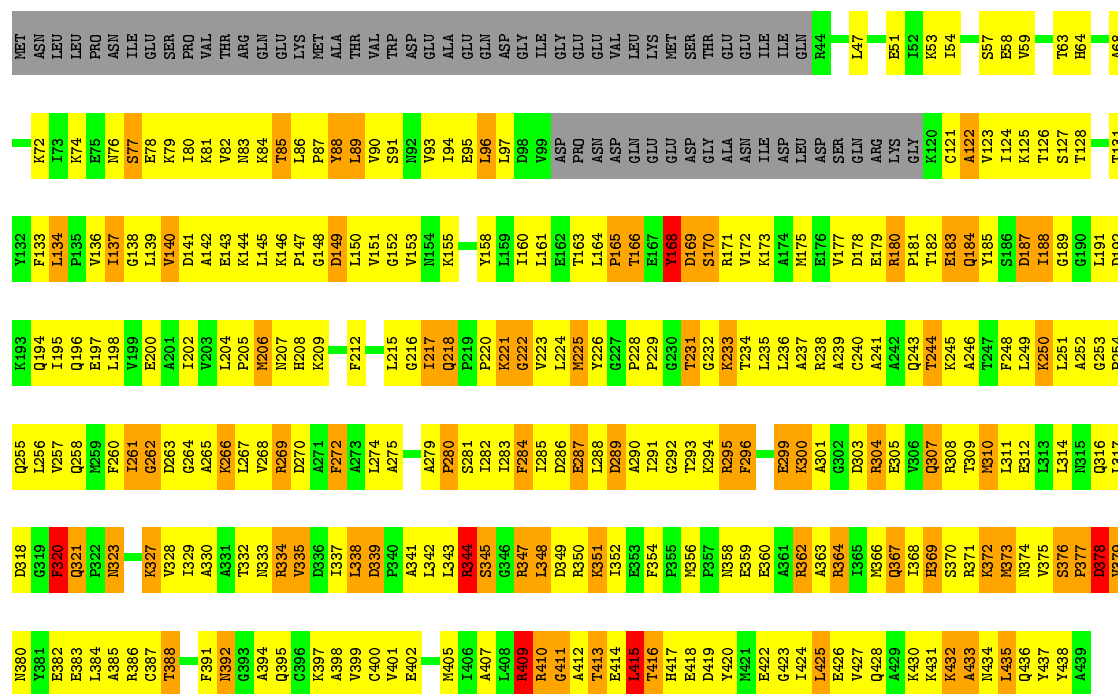
Chain M: 19% 48% 17% 14%





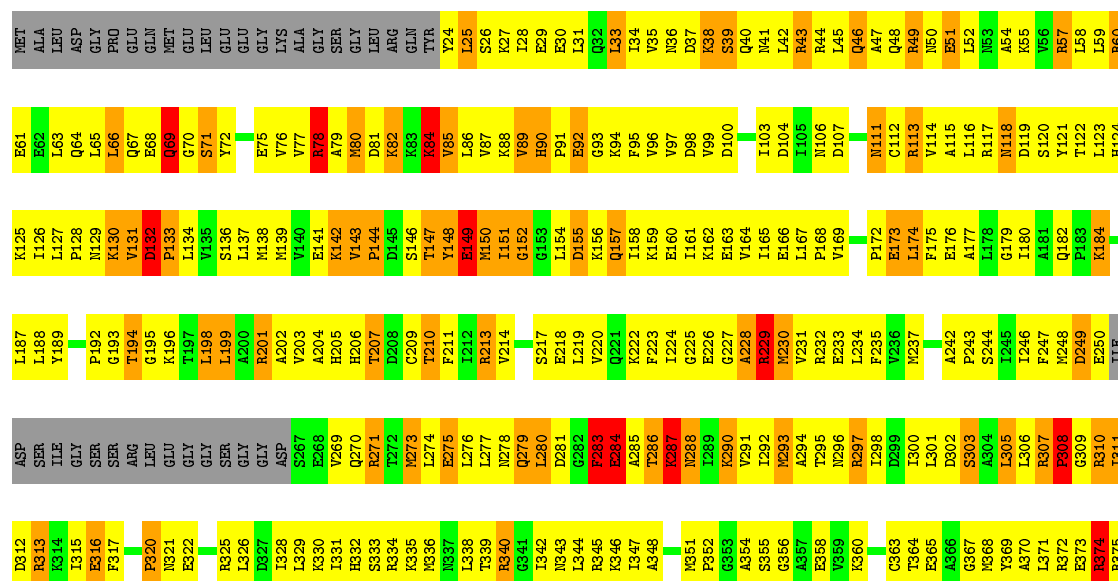
• Molecule 4: 26S protease regulatory subunit 6A

Chain 0: 20% 47% 17% 14%



• Molecule 5: 26S protease regulatory subunit 8

Chain J: 17% 51% 17% 12%



V376
H377
Q380
E381
D382
F383
V387
A388
K391
Q392
K393
S394
E396
K397
ASN
MET
SER
ILE
GLN
LYS
LEU
TRP
LYS

• Molecule 5: 26S protease regulatory subunit 8

Chain x: 66% 19% 12%

MET ALA ASP LEU GLY PRO GLU GLN MET MET LEU GLU GLU GLU GLY LYS LYS GLY SER GLY LEU ARG TTR Y24 L25 S26 R27 L33 D37 K38 S39 R43 Q46 R49 R50 E51 B57 R60 E61 L66 A69 Q69 G70 S71 R78 A79 R80 R81 R82 R83 R84
V85 V89 H90 P91 E92 M111 C112 R113 M118 K130 V131 D132 A133 P133 M139 K142 V143 P144 T147 Y148 E149 M150 I151 G152 D155 K156 Q157 E173 L174 Q182 P183 K184 P192 G193 T194 L198 L199 A200 R201 T207 T210 T213 S217 E226
K227 A228 R229 M230 A242 D249 E250 ILE ASP SER ILE GLY SER SER ARG LEU GLY GLY ASP S267 Q270 R271 T272 T273 L274 E275 Q279 L280 F283 E284 A285 T286 K287 N288 T289 K290 M293 R297 S303 A304 L305 L306 K307 P308 G309 R310 I311 D312
R313 E316 P320 R340 P352 R374 Q382 K397 ASN MET SER LEU ILE LYS LYS LEU TRP LYS

• Molecule 6: 26S protease regulatory subunit 6B

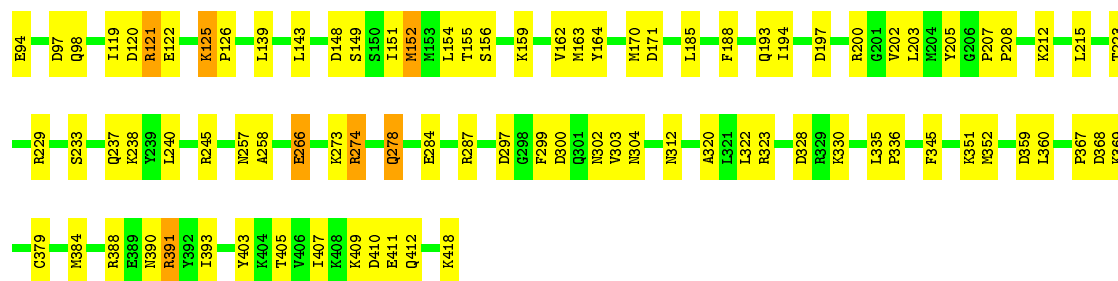
Chain K: 13% 56% 20% 9%

MET GLU GLU ILE GLY ILE VAL GLU LYS ALA ASP GLU ILE PRO ARG ALA THR GLY LEU SER P39 L40 Y41 S42 R43 Y44 K45 L46 T47 Q48 Q49 M110 L51 E52 F53 L54 E55 V56 Q57 E58 T59 V60
I61 K62 D63 E64 Q65 K66 M67 L68 K69 K70 E71 F72 L73 H74 A75 Q76 E77 E78 V79 K80 R81 I82 Q83 S84 I85 P86 L87 V88 I89 G90 Q91 F92 L93 E94 A95 V96 D97 Q98 M99 T100 Y101 I102 S103 G104 Y105 S106 T107 G108 S109 M110 L111 Y112 Y113 R114 L115 L116 S117 T118 I119 D120
R121 E122 L123 L124 K125 P126 M127 A128 S129 V130 A131 L132 H133 K134 H135 H136 S136 M137 A138 L139 V140 D141 V142 L143 M144 P145 E146 A147 D148 S149 S150 T151 M152 M153 L154 T155 S156 K159 P160 D161 V162 M163 Y164 A165 D166 I167 G168 G169 M170 D171 I172 Q173 K174 Q175 Q176 V177 R178 Y179 A180 V181
E182 L183 P184 L185 T186 H187 F188 E189 E190 K191 L192 Q193 L194 G195 I196 D197 P198 P199 R200 G201 V202 L203 M204 Y205 G206 P207 P208 G209 C210 G211 T212 K213 M214 L215 A216 K217 A218 V219 A220 H221 R222 T223 T224 A225 A226 F227 I228 R229 V230 V231 G232 S233 E234 F235 V236 Q237 K238 Y239 L240 G241
E242 G243 P244 R245 V246 M247 R248 D249 A310 R311 R312 R313 R314 L315 K255 E256 D257 A258 P259 A260 L261 L262 G263 F263 G264 D265 D266 L267 D268 A269 I270 A271 T272 K273 K274 F275 D276 A277 R278 T279 D282 R283 E284 V285 Q286 R287 T288 L289 L290 E291 L292 L293 M294 Q295 M296 D297 C298 F299 D300 Q301 N302
V303 M304 V305 K306 V307 I308 M309 A310 R311 R312 R313 R314 L315 K255 E256 D257 A258 P259 A260 L261 L262 G263 F263 G264 D265 D266 L267 D268 A269 I270 A271 T272 K273 K274 F275 D276 A277 R278 T279 D282 R283 E284 V285 Q286 R287 T288 L289 L290 E291 L292 L293 M294 Q295 M296 D297 C298 F299 D300 Q301 N302
V364 A365 P366 R367 D368 K369 L370 S371 G372 A373 D374 L375 V376 S377 G383 G384 A385 A386 V387 R388 E389 R390 R391 Y392 K393 V394 L395 A396 K397 D398 F399 E400 K401 A402 Y403 T404 V405 L406 L407 K408 K409 D410 E411 Q412 K418

• Molecule 6: 26S protease regulatory subunit 6B

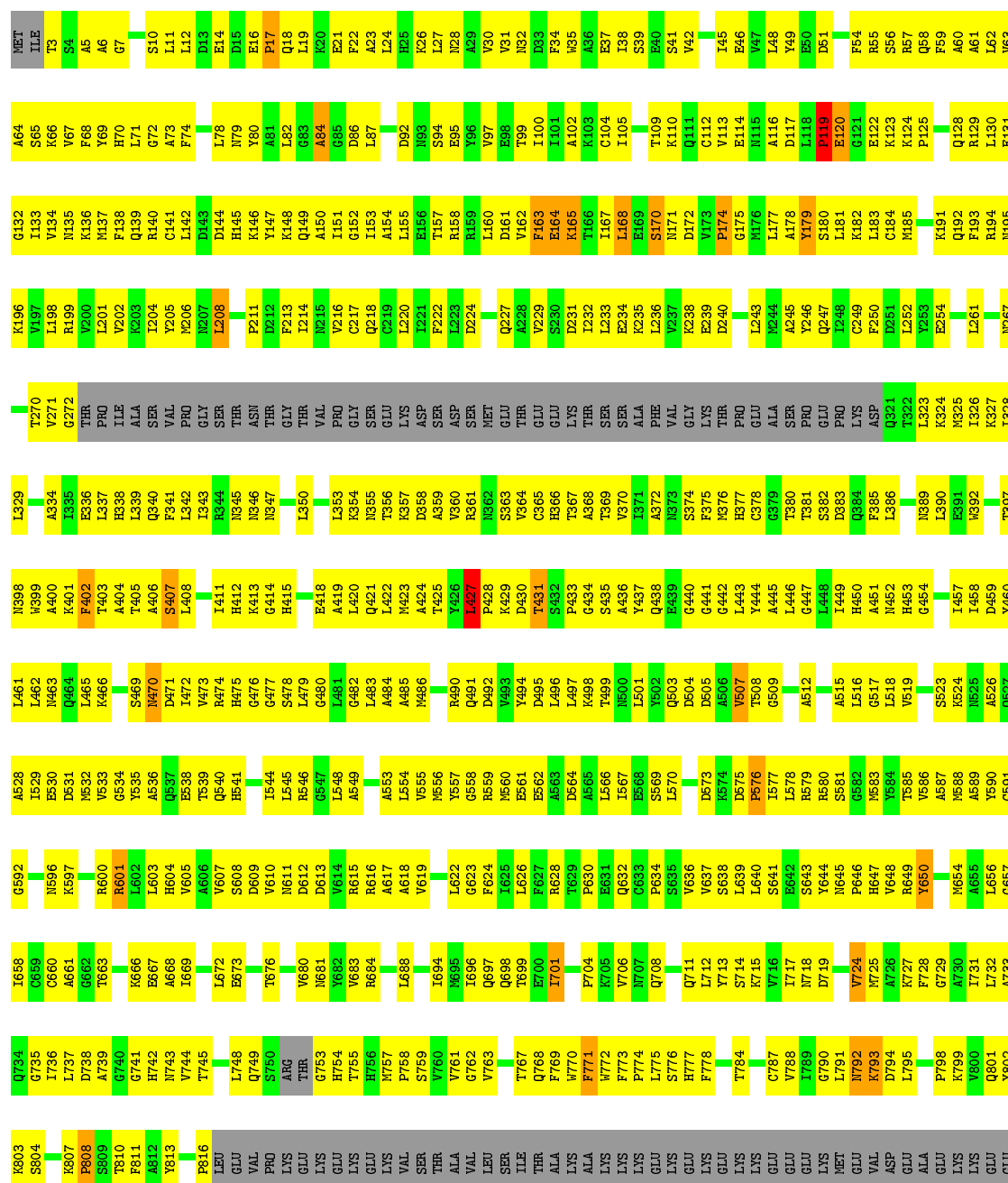
Chain y: 67% 22% 9%

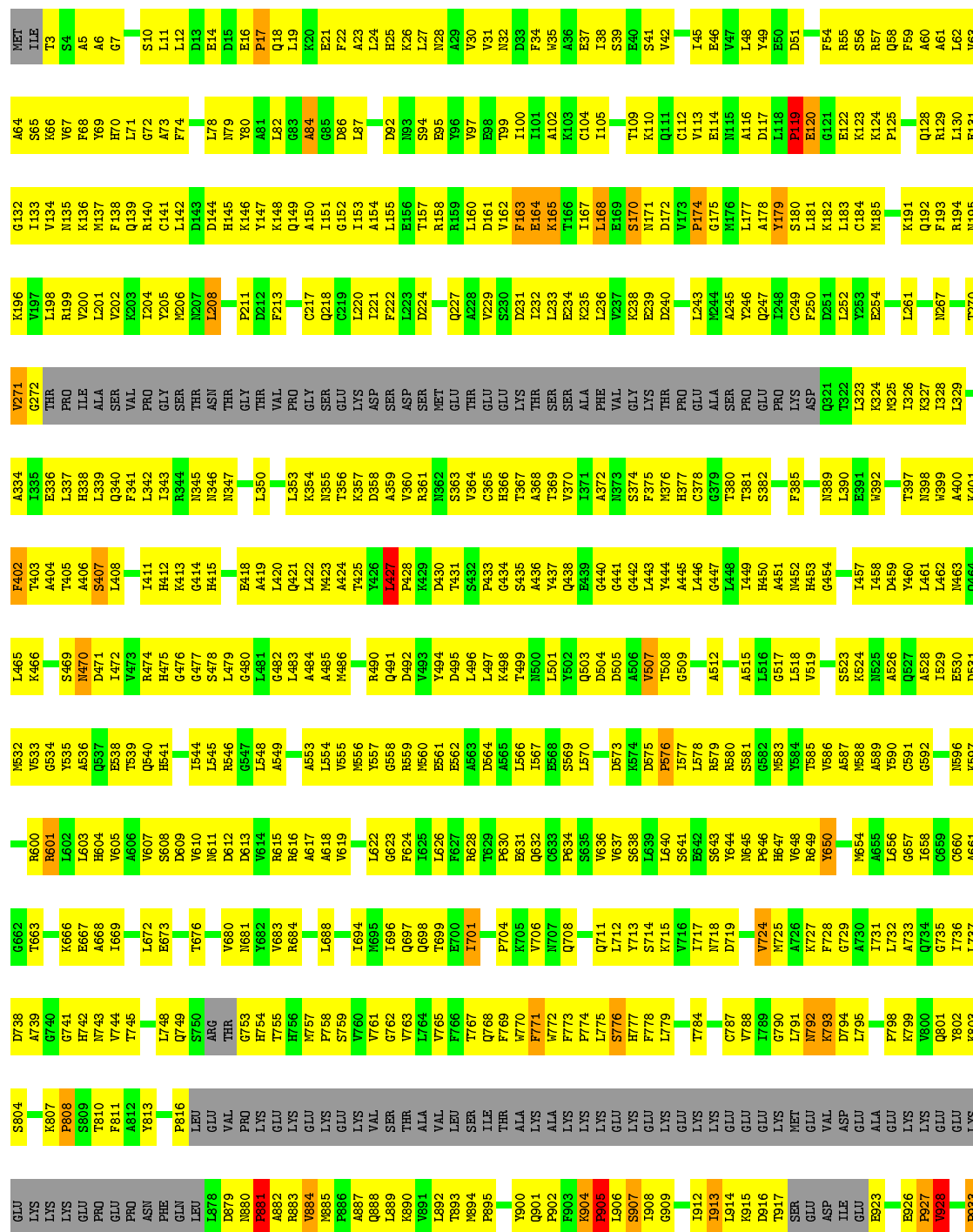
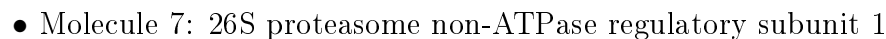
MET GLU GLU ILE GLY ILE VAL GLU LYS ALA GLN ASP GLU ILE PRO ARG ALA LEU SER VAL SER ARG PRO GLN THR GLY LEU SER PHE LEU GLY PRO L39 L40 L51 E52 F53 L54 E58 Q65 F72 L73 I82 I85 P86 L87 L93

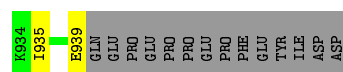


• Molecule 7: 26S proteasome non-ATPase regulatory subunit 1

Chain N: 27% 55% 14%

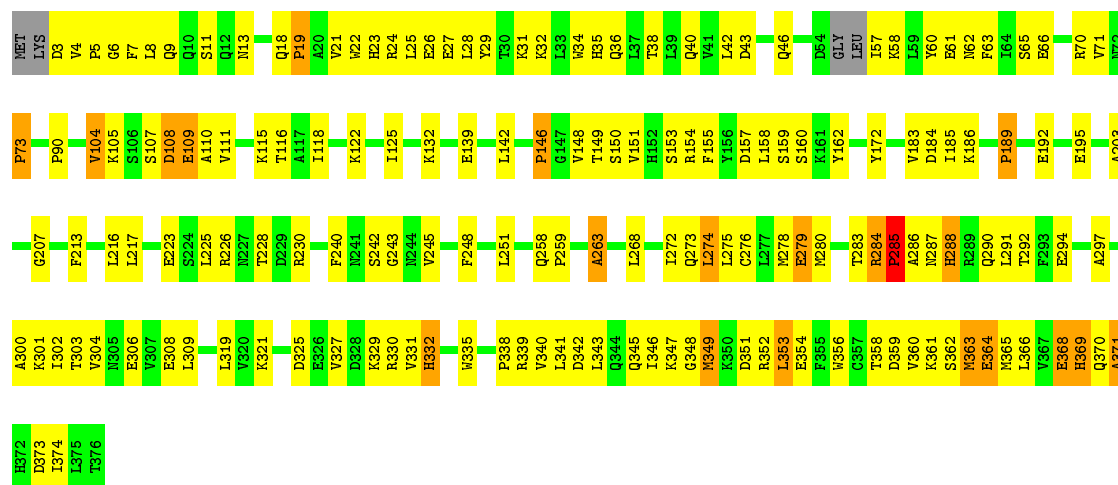






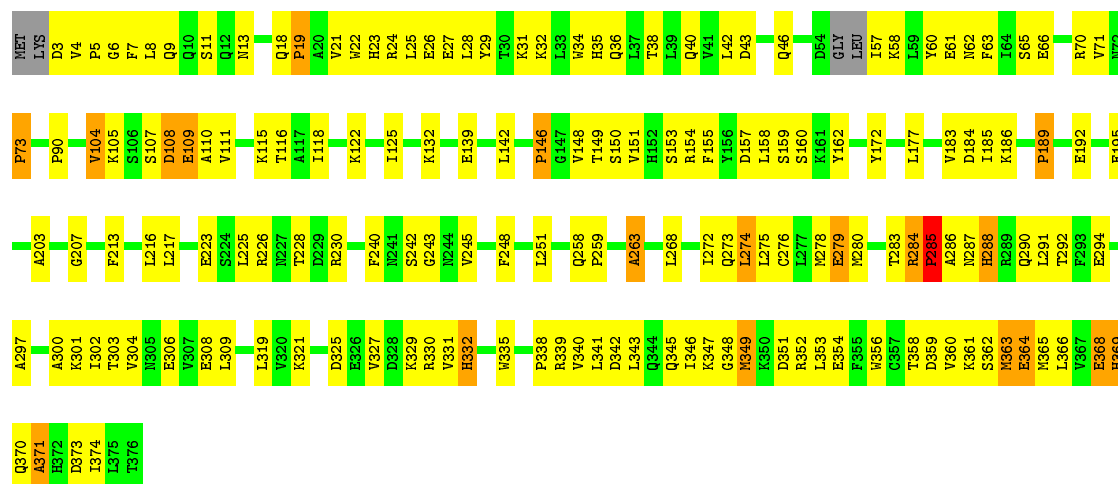
• Molecule 8: 26S proteasome non-ATPase regulatory subunit 13

Chain O: 55% 38% 5%



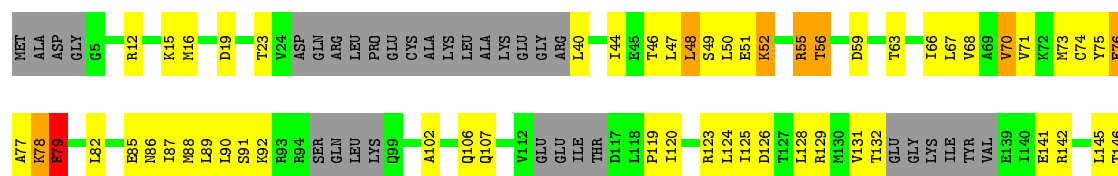
• Molecule 8: 26S proteasome non-ATPase regulatory subunit 13

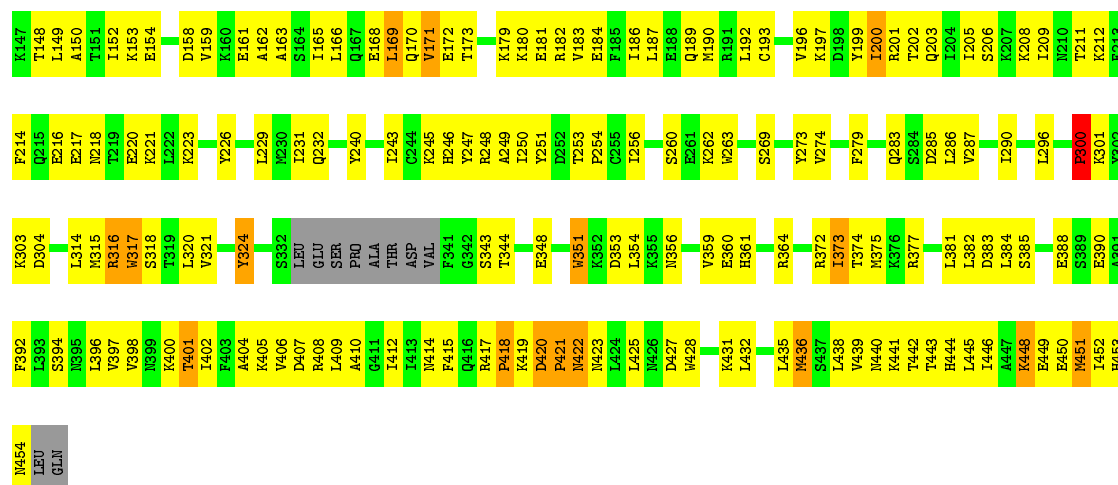
Chain 2: 55% 39% 5%

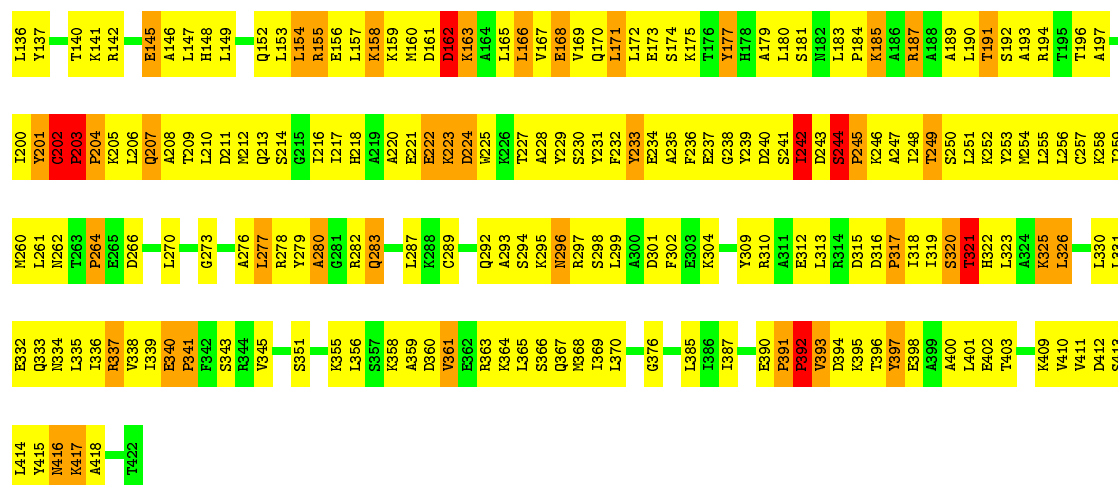


• Molecule 9: 26S proteasome non-ATPase regulatory subunit 12

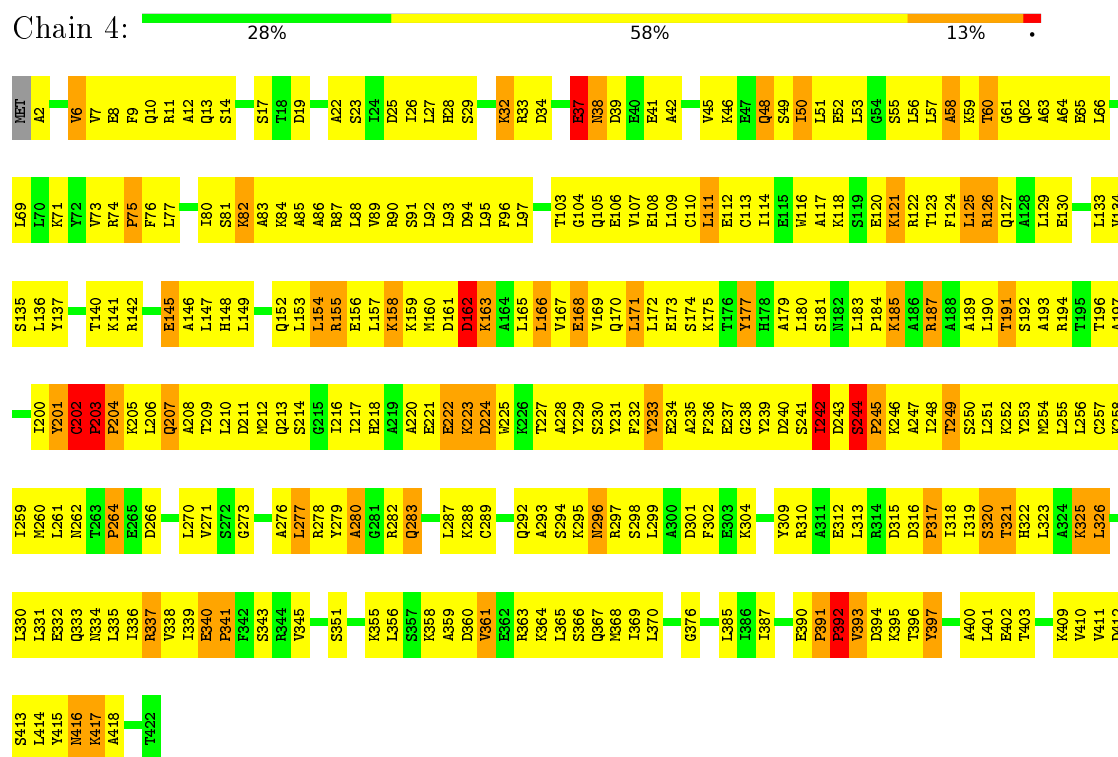
Chain P: 43% 43% 5% 9%



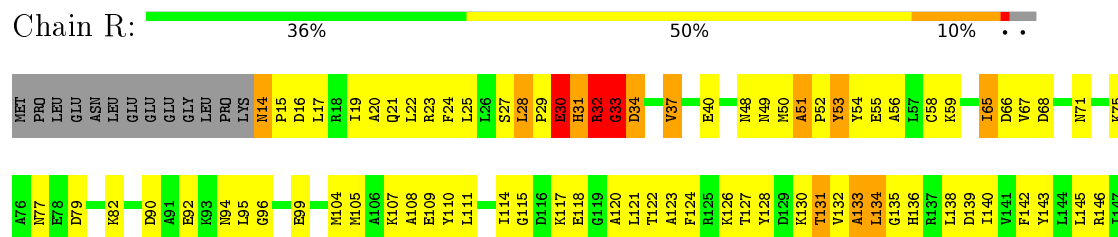


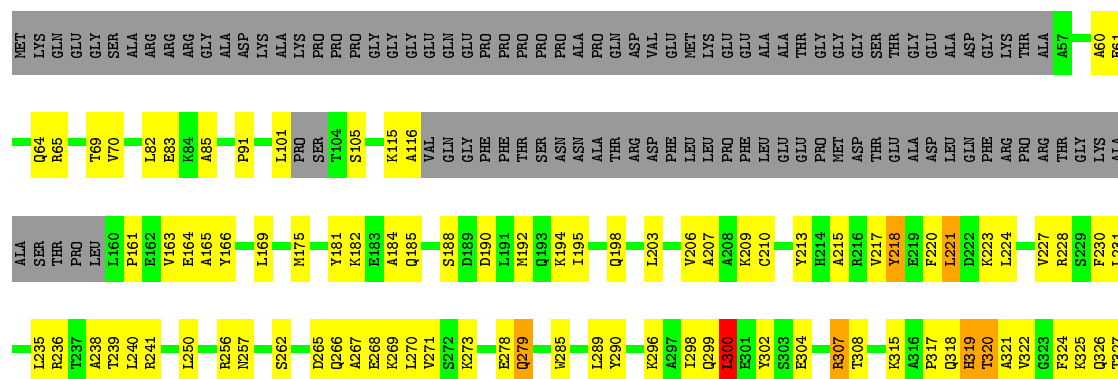


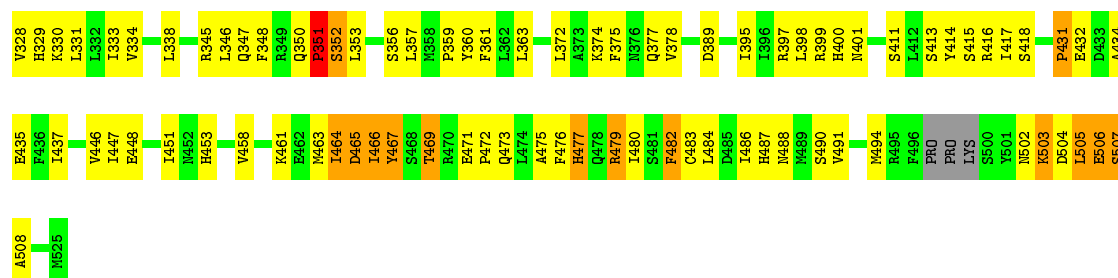
- Molecule 10: 26S proteasome non-ATPase regulatory subunit 11



- Molecule 11: 26S proteasome non-ATPase regulatory subunit 6

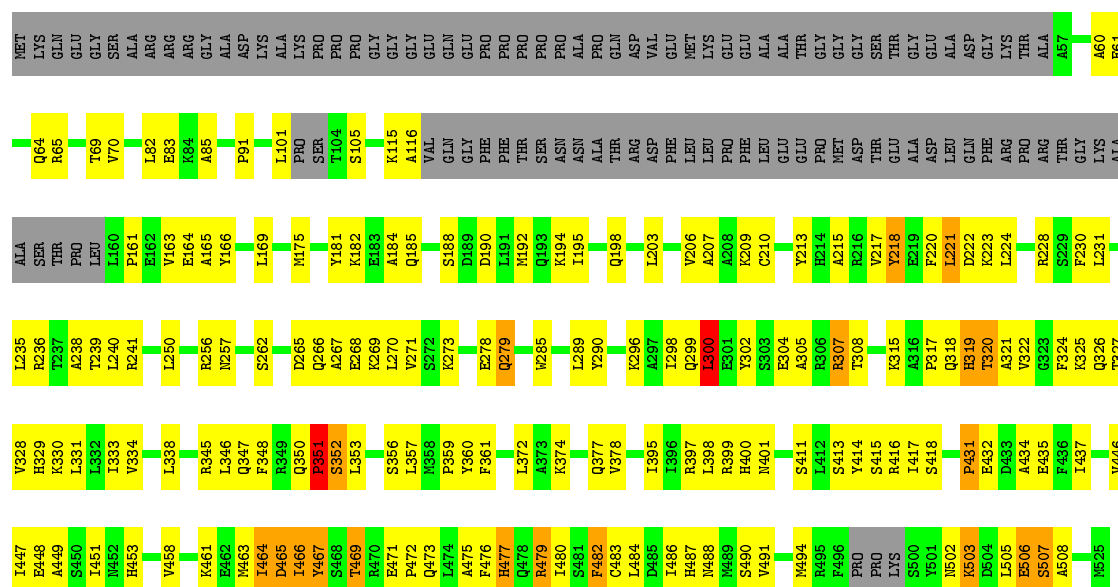






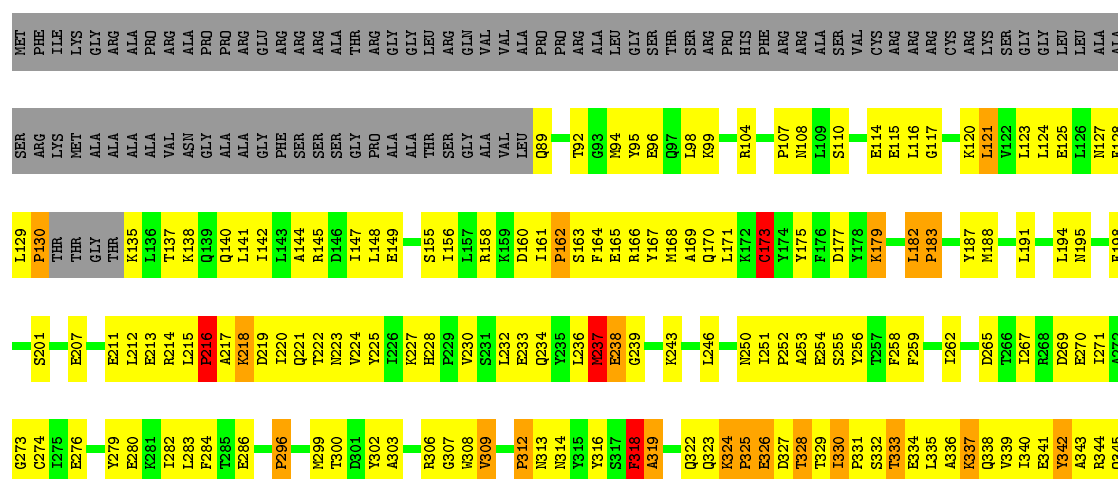
- Molecule 12: 26S proteasome non-ATPase regulatory subunit 3

Chain 6: 48% 28% 20%

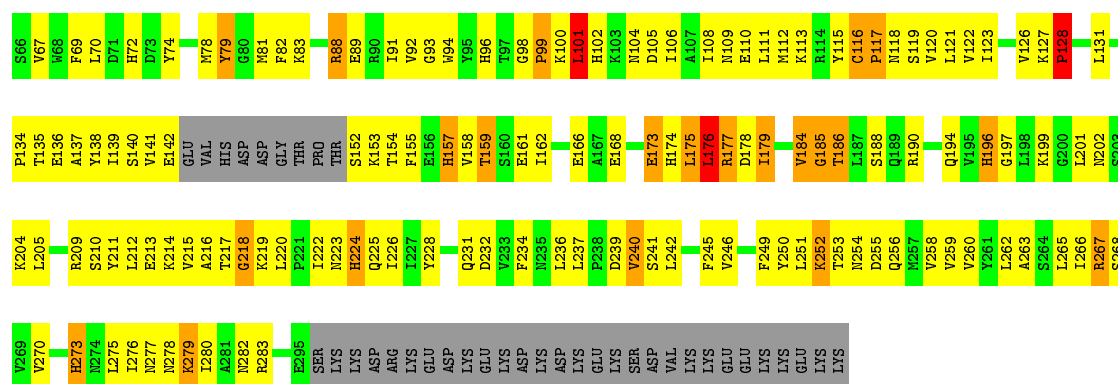


- Molecule 13: 26S proteasome non-ATPase regulatory subunit 8

Chain T: 29% 38% 6% 26%

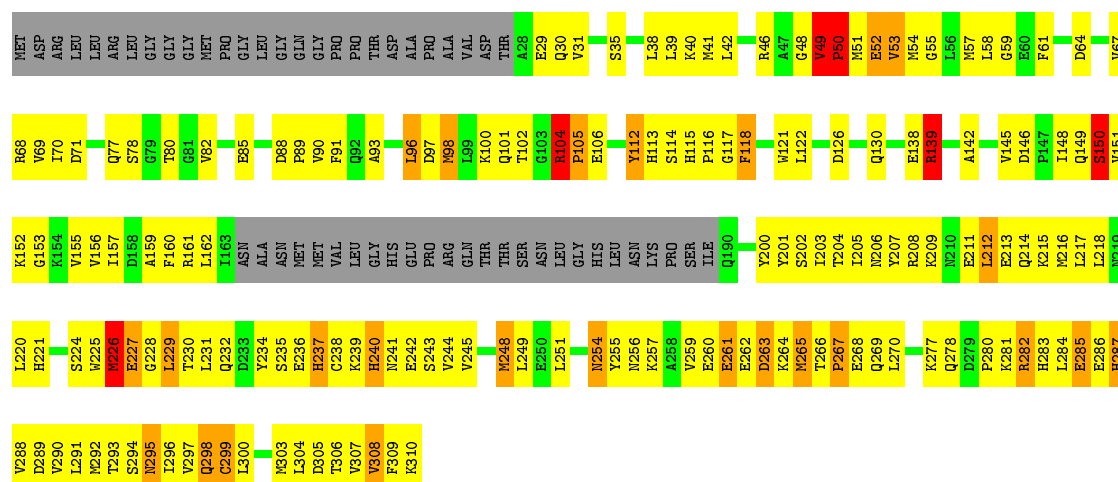






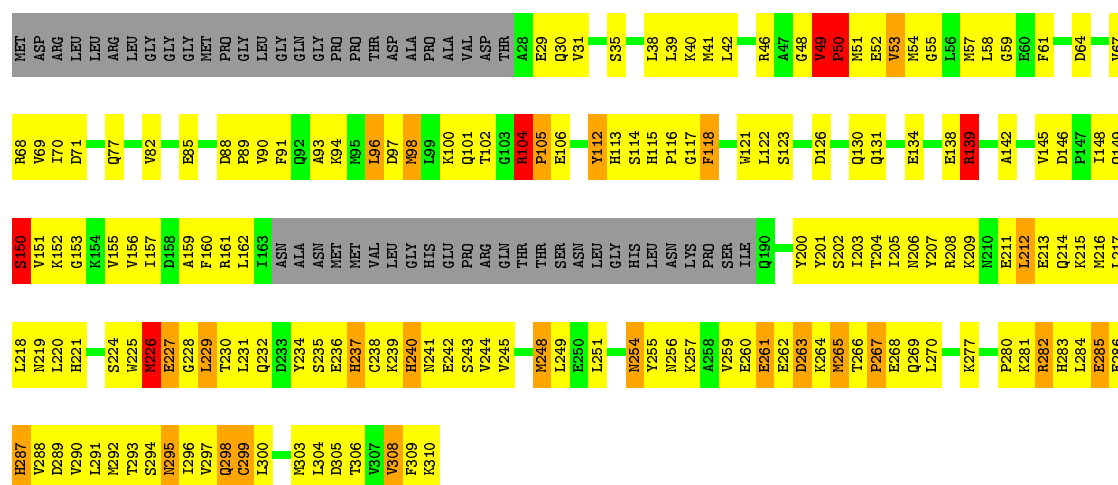
- Molecule 15: 26S proteasome non-ATPase regulatory subunit 14

Chain V: 29% 44% 8% 17%



- Molecule 15: 26S proteasome non-ATPase regulatory subunit 14


Chain 9: 29% 45% 8% 17%

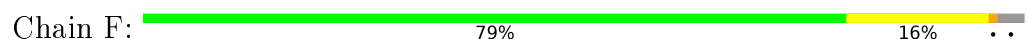


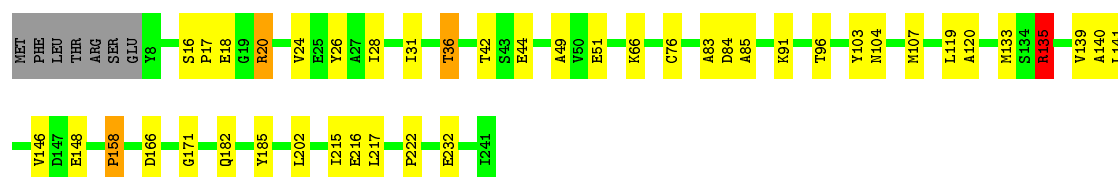
- Molecule 16: 26S proteasome non-ATPase regulatory subunit 4



- [illegible]

- Chain AC: 





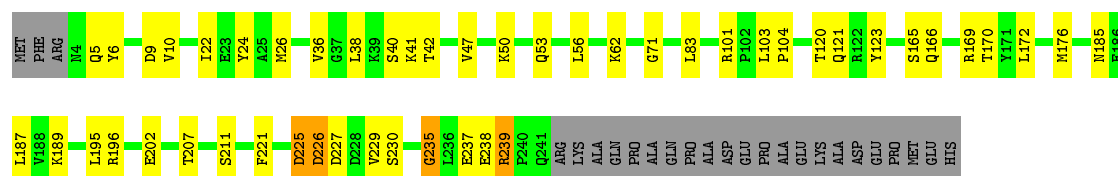
- Molecule 23: Proteasome subunit alpha type-5

Chain l: 93%



- Molecule 24: Proteasome subunit alpha type-1

Chain G: 72% 17% 10%



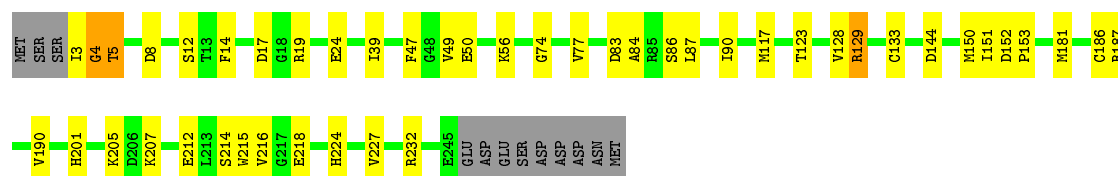
- Molecule 24: Proteasome subunit alpha type-1

Chain m: 85% 5% 10%



- Molecule 25: Proteasome subunit alpha type-3

Chain X: 77% 17% 5%



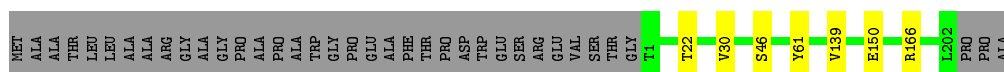
- Molecule 25: Proteasome subunit alpha type-3

Chain n: 91% 5% 5%



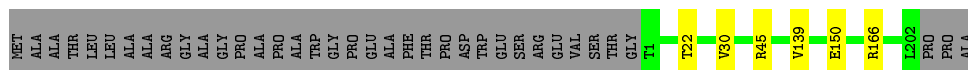
- Molecule 26: Proteasome subunit beta type-6

Chain a: 82% 15%



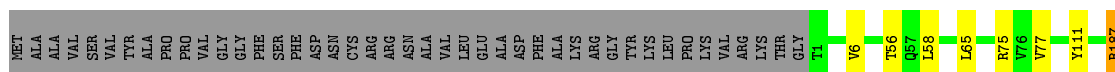
- Molecule 26: Proteasome subunit beta type-6

Chain o: 82% 15%



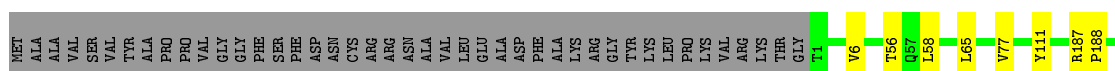
- Molecule 27: Proteasome subunit beta type-7

Chain b: 75% 21%



- Molecule 27: Proteasome subunit beta type-7

Chain p: 76% 21%



- Molecule 28: Proteasome subunit beta type-3

Chain c: 94% 5%



- Molecule 28: Proteasome subunit beta type-3

Chain q: 94% 5%

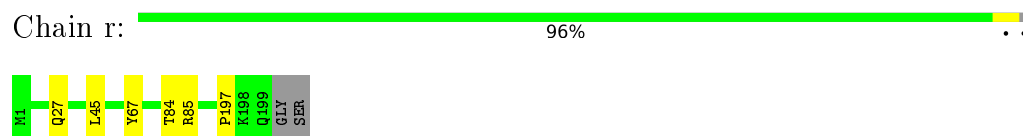


- Molecule 29: Proteasome subunit beta type-2

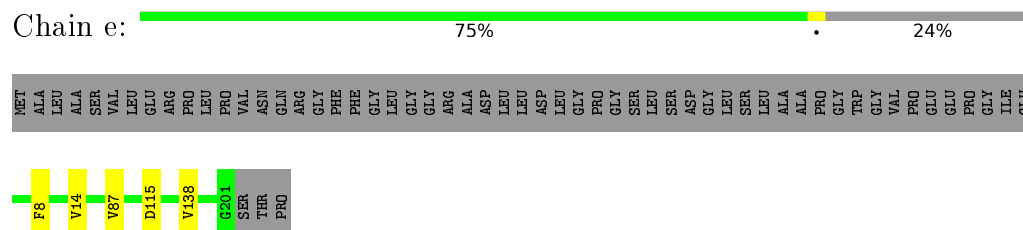
Chain d: 96% 2%



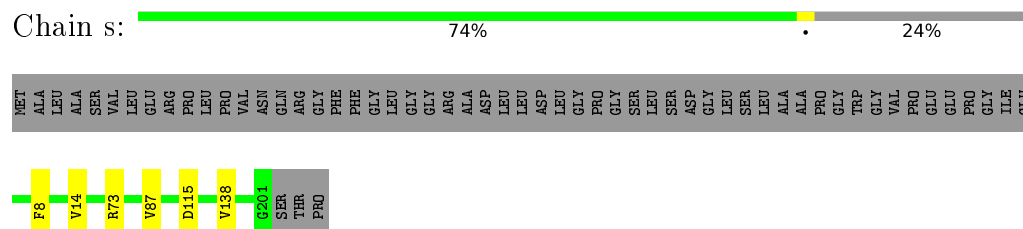
- Molecule 29: Proteasome subunit beta type-2



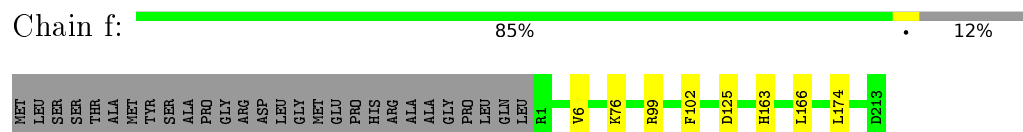
- Molecule 30: Proteasome subunit beta type-5



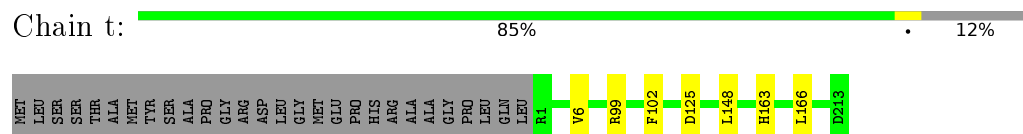
- Molecule 30: Proteasome subunit beta type-5



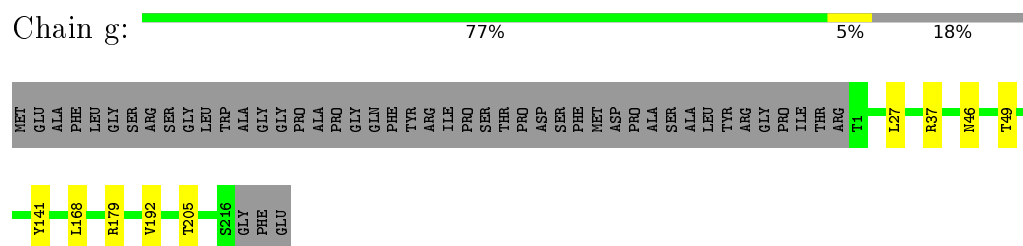
- Molecule 31: Proteasome subunit beta type-1



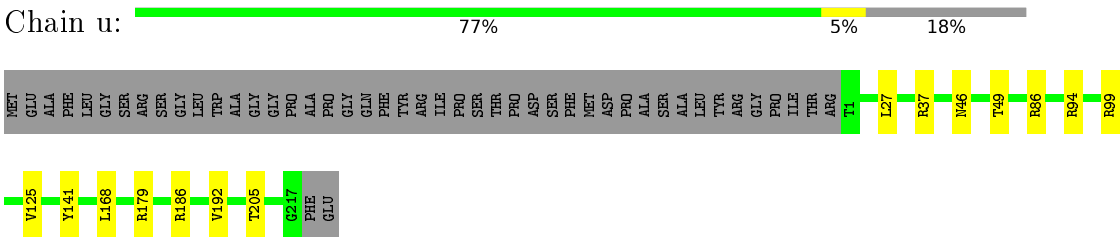
- Molecule 31: Proteasome subunit beta type-1



- Molecule 32: Proteasome subunit beta type-4



- Molecule 32: Proteasome subunit beta type-4



4 Experimental information

Property	Value	Source
Reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	Depositor
Number of particles used	165699	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	Not provided	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	Not provided	Depositor
Minimum defocus (nm)	Not provided	Depositor
Maximum defocus (nm)	Not provided	Depositor
Magnification	Not provided	Depositor
Image detector	Not provided	Depositor

5 Model quality ⓘ

5.1 Standard geometry ⓘ

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

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 > 2$	RMSZ	# $ Z > 2$
1	I	0.66	2/2756 (0.1%)	1.09	7/3727 (0.2%)
1	w	0.66	2/2756 (0.1%)	1.09	7/3727 (0.2%)
10	4	0.49	2/2989 (0.1%)	0.63	6/4054 (0.1%)
10	Q	0.48	1/2989 (0.0%)	0.63	6/4054 (0.1%)
11	5	0.48	0/2820	0.65	3/3815 (0.1%)
11	R	0.48	0/2817	0.65	3/3812 (0.1%)
12	6	0.41	0/2754	0.59	3/3728 (0.1%)
12	S	0.41	0/2745	0.58	2/3717 (0.1%)
13	7	0.41	0/1713	0.63	4/2306 (0.2%)
13	T	0.41	0/1713	0.63	4/2306 (0.2%)
14	8	0.46	0/2167	0.60	0/2936
14	U	0.46	0/2167	0.60	0/2936
15	9	0.47	0/2045	0.73	2/2760 (0.1%)
15	V	0.47	0/2047	0.72	2/2763 (0.1%)
16	AA	0.44	0/1312	0.76	4/1769 (0.2%)
16	W	0.44	0/1312	0.76	4/1769 (0.2%)
17	AB	0.43	0/315	0.74	1/433 (0.2%)
17	Y	0.43	0/315	0.74	1/433 (0.2%)
18	AC	0.32	0/3603	0.55	1/5005 (0.0%)
18	Z	0.32	0/3603	0.55	1/5005 (0.0%)
19	B	0.75	0/1878	0.74	0/2549
19	h	0.81	0/1886	0.77	0/2557
2	H	0.76	3/2939 (0.1%)	0.96	9/3970 (0.2%)
2	v	0.76	2/2939 (0.1%)	0.97	11/3970 (0.3%)
20	C	0.85	1/1773 (0.1%)	0.78	1/2409 (0.0%)
20	i	0.86	1/1780 (0.1%)	0.79	1/2417 (0.0%)
21	D	1.13	4/1946 (0.2%)	0.85	6/2633 (0.2%)
21	j	1.39	3/1943 (0.2%)	0.83	6/2629 (0.2%)
22	E	0.77	0/1748	0.77	0/2386
22	k	0.78	0/1716	0.80	1/2347 (0.0%)
23	F	0.78	1/1794 (0.1%)	0.79	1/2430 (0.0%)
23	l	0.80	1/1753 (0.1%)	0.83	2/2346 (0.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >2	RMSZ	# Z >2
24	G	0.75	0/1885	0.77	0/2552
24	m	0.77	1/1885 (0.1%)	0.79	0/2552
25	X	0.83	2/1908 (0.1%)	0.76	0/2575
25	n	0.81	1/1908 (0.1%)	0.76	0/2575
26	a	0.88	5/1535 (0.3%)	0.86	4/2078 (0.2%)
26	o	0.86	3/1535 (0.2%)	0.87	4/2078 (0.2%)
27	b	0.79	1/1670 (0.1%)	0.84	3/2265 (0.1%)
27	p	0.80	1/1670 (0.1%)	0.82	2/2265 (0.1%)
28	c	0.87	0/1614	0.85	1/2177 (0.0%)
28	q	0.87	0/1614	0.85	1/2177 (0.0%)
29	d	0.87	1/1603 (0.1%)	0.83	0/2174
29	r	0.87	1/1603 (0.1%)	0.83	0/2174
3	L	0.66	0/2904	0.80	5/3924 (0.1%)
3	z	0.65	0/2904	0.79	4/3924 (0.1%)
30	e	0.92	0/1579	0.85	1/2134 (0.0%)
30	s	0.91	0/1582	0.84	1/2138 (0.0%)
31	f	0.85	0/1674	0.81	0/2257
31	t	0.85	0/1674	0.81	1/2257 (0.0%)
32	g	0.90	2/1705 (0.1%)	0.86	4/2312 (0.2%)
32	u	0.89	2/1711 (0.1%)	0.85	4/2319 (0.2%)
4	0	0.65	0/2896	0.81	6/3912 (0.2%)
4	M	0.65	0/2896	0.81	6/3912 (0.2%)
5	J	0.59	0/2857	0.75	3/3844 (0.1%)
5	x	0.59	0/2857	0.75	3/3844 (0.1%)
6	K	0.61	0/3089	0.80	3/4168 (0.1%)
6	y	0.61	0/3089	0.80	3/4168 (0.1%)
7	1	0.41	0/5506	0.60	1/7425 (0.0%)
7	N	0.41	0/5506	0.60	1/7425 (0.0%)
8	2	0.43	0/2390	0.65	2/3215 (0.1%)
8	O	0.43	0/2383	0.65	2/3206 (0.1%)
9	3	0.45	0/2860	0.67	3/3860 (0.1%)
9	P	0.45	0/2861	0.67	3/3861 (0.1%)
All	All	0.66	43/144386 (0.0%)	0.76	170/195445 (0.1%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	I	0	4
1	w	0	4

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Mol	Chain	#Chirality outliers	#Planarity outliers
10	4	0	7
10	Q	0	7
11	5	0	9
11	R	0	9
13	7	0	2
13	T	0	2
14	8	0	1
14	U	0	1
15	9	0	3
15	V	0	3
16	AA	0	8
16	W	0	8
17	AB	0	2
17	Y	0	2
18	AC	0	7
18	Z	0	7
2	H	0	1
2	v	0	1
27	b	0	2
3	L	0	3
3	z	0	3
4	0	0	3
4	M	0	3
5	J	0	1
5	x	0	1
6	K	0	2
6	y	0	2
7	1	0	3
7	N	0	3
8	2	0	1
8	O	0	1
9	3	0	2
9	P	0	2
All	All	0	120

All (43) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	j	70	GLU	CD-OE1	44.40	1.74	1.25
21	D	70	GLU	CD-OE1	23.09	1.51	1.25
21	D	70	GLU	CD-OE2	22.37	1.50	1.25
21	j	70	GLU	CD-OE2	18.38	1.45	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	D	70	GLU	CG-CD	13.41	1.72	1.51
21	j	70	GLU	CG-CD	13.30	1.72	1.51
32	g	179	ARG	CZ-NH1	9.58	1.45	1.33
32	u	179	ARG	CZ-NH1	8.86	1.44	1.33
32	g	179	ARG	NE-CZ	7.49	1.42	1.33
10	4	48	GLN	C-N	7.39	1.51	1.34
10	Q	163	LYS	N-CA	-7.03	1.32	1.46
10	4	163	LYS	N-CA	-7.03	1.32	1.46
27	p	111	TYR	CE2-CZ	-6.94	1.29	1.38
32	u	179	ARG	NE-CZ	6.52	1.41	1.33
2	H	336	ARG	CD-NE	-6.43	1.35	1.46
2	v	336	ARG	CD-NE	-6.43	1.35	1.46
26	o	166	ARG	NE-CZ	6.30	1.41	1.33
26	a	166	ARG	NE-CZ	6.20	1.41	1.33
20	C	12	PHE	CG-CD2	-6.20	1.29	1.38
26	a	61	TYR	CB-CG	6.18	1.60	1.51
20	i	12	PHE	CG-CD2	-6.08	1.29	1.38
26	a	61	TYR	CG-CD1	5.89	1.46	1.39
2	v	346	PRO	N-CD	5.89	1.56	1.47
26	o	166	ARG	CZ-NH1	5.86	1.40	1.33
25	X	218	GLU	CD-OE2	5.78	1.32	1.25
26	o	166	ARG	CD-NE	5.69	1.56	1.46
26	a	166	ARG	CZ-NH1	5.66	1.40	1.33
1	I	142	ASP	CB-CG	5.58	1.63	1.51
1	w	142	ASP	CB-CG	5.58	1.63	1.51
25	n	14	PHE	CG-CD2	-5.57	1.30	1.38
27	b	111	TYR	CE2-CZ	-5.54	1.31	1.38
2	H	346	PRO	N-CD	5.53	1.55	1.47
25	X	14	PHE	CG-CD2	-5.38	1.30	1.38
21	D	70	GLU	CB-CG	5.28	1.62	1.52
23	F	103	TYR	CG-CD2	-5.22	1.32	1.39
1	I	142	ASP	CG-OD1	5.14	1.37	1.25
1	w	142	ASP	CG-OD1	5.14	1.37	1.25
26	a	166	ARG	CD-NE	5.11	1.55	1.46
29	r	67	TYR	CE1-CZ	-5.11	1.31	1.38
2	H	92	PRO	N-CD	5.10	1.54	1.47
23	l	103	TYR	CG-CD2	-5.07	1.32	1.39
24	m	24	TYR	CE1-CZ	-5.06	1.31	1.38
29	d	67	TYR	CE1-CZ	-5.02	1.32	1.38

All (170) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	142	ASP	CB-CG-OD1	34.78	149.61	118.30
1	w	142	ASP	CB-CG-OD1	34.78	149.61	118.30
1	I	142	ASP	CB-CG-OD2	-25.59	95.27	118.30
1	w	142	ASP	CB-CG-OD2	-25.59	95.27	118.30
2	H	336	ARG	NE-CZ-NH1	-19.14	110.73	120.30
2	v	336	ARG	NE-CZ-NH1	-19.14	110.73	120.30
6	K	200	ARG	NE-CZ-NH2	-15.05	112.77	120.30
6	y	200	ARG	NE-CZ-NH2	-15.05	112.77	120.30
26	a	166	ARG	NE-CZ-NH1	14.49	127.55	120.30
26	o	166	ARG	NE-CZ-NH1	14.05	127.33	120.30
15	V	139	ARG	NE-CZ-NH2	-13.90	113.35	120.30
15	9	139	ARG	NE-CZ-NH2	-13.90	113.35	120.30
6	K	200	ARG	NE-CZ-NH1	13.86	127.23	120.30
6	y	200	ARG	NE-CZ-NH1	13.86	127.23	120.30
9	P	420	ASP	C-N-CD	-13.65	90.58	120.60
9	3	420	ASP	C-N-CD	-13.65	90.58	120.60
32	g	179	ARG	NE-CZ-NH2	-12.65	113.97	120.30
28	q	27	ARG	NE-CZ-NH2	-11.46	114.57	120.30
32	g	179	ARG	NE-CZ-NH1	11.28	125.94	120.30
32	u	179	ARG	NE-CZ-NH2	-10.97	114.82	120.30
28	c	27	ARG	NE-CZ-NH2	-10.84	114.88	120.30
2	H	336	ARG	NE-CZ-NH2	10.64	125.62	120.30
2	v	336	ARG	NE-CZ-NH2	10.64	125.62	120.30
15	V	139	ARG	NE-CZ-NH1	10.13	125.36	120.30
15	9	139	ARG	NE-CZ-NH1	10.13	125.36	120.30
4	M	168	TYR	CB-CA-C	-10.01	90.39	110.40
4	0	168	TYR	CB-CA-C	-10.01	90.39	110.40
32	u	179	ARG	NE-CZ-NH1	9.60	125.10	120.30
16	W	52	ILE	CB-CA-C	-8.84	93.92	111.60
16	AA	52	ILE	CB-CA-C	-8.84	93.92	111.60
1	I	263	GLY	C-N-CD	-8.72	101.42	120.60
1	w	263	GLY	C-N-CD	-8.72	101.42	120.60
2	H	336	ARG	CD-NE-CZ	8.62	135.66	123.60
2	v	336	ARG	CD-NE-CZ	8.62	135.66	123.60
21	j	99	LEU	CB-CG-CD1	-8.38	96.76	111.00
21	D	99	LEU	CB-CG-CD1	-8.38	96.76	111.00
2	H	315	ILE	N-CA-C	-8.24	88.74	111.00
2	v	315	ILE	N-CA-C	-8.24	88.74	111.00
8	O	263	ALA	N-CA-C	7.67	131.71	111.00
8	2	263	ALA	N-CA-C	7.67	131.71	111.00
27	b	58	LEU	CB-CG-CD1	-7.60	98.08	111.00
1	I	325	VAL	N-CA-C	-7.46	90.84	111.00
1	w	325	VAL	N-CA-C	-7.46	90.84	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	M	169	ASP	N-CA-C	7.39	130.95	111.00
4	0	169	ASP	N-CA-C	7.39	130.95	111.00
3	L	148	VAL	CB-CA-C	7.38	125.41	111.40
3	z	148	VAL	CB-CA-C	7.38	125.41	111.40
16	W	58	CYS	CA-CB-SG	-7.21	101.02	114.00
16	AA	58	CYS	CA-CB-SG	-7.21	101.02	114.00
27	p	58	LEU	CB-CG-CD1	-7.20	98.77	111.00
21	j	70	GLU	CG-CD-OE2	7.16	132.62	118.30
23	l	135	ARG	NE-CZ-NH2	-6.82	116.89	120.30
10	Q	397	TYR	CB-CG-CD1	6.72	125.03	121.00
10	4	397	TYR	CB-CG-CD1	6.72	125.03	121.00
4	M	169	ASP	N-CA-CB	-6.62	98.68	110.60
4	0	169	ASP	N-CA-CB	-6.62	98.68	110.60
27	p	65	LEU	CB-CG-CD1	-6.61	99.76	111.00
1	I	346	ARG	NE-CZ-NH1	6.59	123.60	120.30
1	w	346	ARG	NE-CZ-NH1	6.59	123.60	120.30
11	R	33	GLY	N-CA-C	-6.55	96.72	113.10
11	5	33	GLY	N-CA-C	-6.55	96.72	113.10
13	T	173	CYS	CA-CB-SG	-6.53	102.24	114.00
13	7	173	CYS	CA-CB-SG	-6.53	102.24	114.00
23	l	135	ARG	NE-CZ-NH1	6.53	123.56	120.30
10	Q	75	PRO	N-CA-CB	6.53	111.13	103.30
10	4	75	PRO	N-CA-CB	6.53	111.13	103.30
18	Z	201	GLU	N-CA-CB	-6.51	98.88	110.60
18	AC	201	GLU	N-CA-CB	-6.51	98.88	110.60
4	M	320	PHE	CB-CG-CD1	-6.51	116.25	120.80
4	0	320	PHE	CB-CG-CD1	-6.51	116.25	120.80
23	F	135	ARG	NE-CZ-NH2	-6.47	117.07	120.30
21	j	70	GLU	CG-CD-OE1	-6.36	105.57	118.30
3	L	356	ARG	NE-CZ-NH1	6.29	123.45	120.30
3	z	356	ARG	NE-CZ-NH1	6.29	123.45	120.30
27	b	65	LEU	CB-CG-CD1	-6.25	100.38	111.00
5	J	311	ILE	N-CA-C	-6.23	94.18	111.00
5	x	311	ILE	N-CA-C	-6.23	94.18	111.00
13	T	121	LEU	CB-CG-CD2	-6.19	100.47	111.00
13	7	121	LEU	CB-CG-CD2	-6.19	100.47	111.00
2	H	224	LEU	CB-CG-CD1	-6.19	100.48	111.00
2	v	224	LEU	CB-CG-CD1	-6.19	100.48	111.00
12	S	91	PRO	N-CA-CB	6.18	110.72	103.30
12	6	91	PRO	N-CA-CB	6.18	110.72	103.30
1	I	216	ILE	CB-CA-C	6.17	123.94	111.60
1	w	216	ILE	CB-CA-C	6.17	123.94	111.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
32	g	125	VAL	CG1-CB-CG2	-6.15	101.06	110.90
32	u	125	VAL	CG1-CB-CG2	-6.12	101.10	110.90
32	g	27	LEU	CB-CG-CD1	-6.06	100.70	111.00
7	N	427	LEU	C-N-CD	6.03	141.07	128.40
7	1	427	LEU	C-N-CD	6.03	141.07	128.40
3	L	318	GLY	C-N-CD	6.01	141.03	128.40
16	W	65	THR	N-CA-C	5.98	127.15	111.00
16	AA	65	THR	N-CA-C	5.98	127.15	111.00
4	M	320	PHE	CB-CG-CD2	5.96	124.97	120.80
4	0	320	PHE	CB-CG-CD2	5.96	124.97	120.80
2	v	91	GLN	C-N-CD	5.92	140.83	128.40
4	M	269	ARG	NE-CZ-NH2	5.90	123.25	120.30
4	0	269	ARG	NE-CZ-NH2	5.90	123.25	120.30
21	D	98	LEU	CB-CG-CD1	-5.87	101.01	111.00
21	j	98	LEU	CB-CG-CD1	-5.87	101.02	111.00
30	e	14	VAL	CG1-CB-CG2	-5.87	101.52	110.90
13	T	252	PRO	N-CA-CB	5.86	110.33	103.30
13	7	252	PRO	N-CA-CB	5.86	110.33	103.30
2	H	91	GLN	C-N-CD	5.82	140.62	128.40
32	u	27	LEU	CB-CG-CD1	-5.81	101.12	111.00
2	v	346	PRO	CA-N-CD	-5.79	103.39	111.50
10	Q	203	PRO	CA-N-CD	-5.79	103.39	111.50
10	4	203	PRO	CA-N-CD	-5.79	103.39	111.50
11	R	383	LEU	CB-CG-CD1	5.77	120.81	111.00
11	5	383	LEU	CB-CG-CD1	5.77	120.81	111.00
21	j	44	LEU	CA-CB-CG	5.76	128.56	115.30
9	P	324	TYR	CA-C-N	5.76	127.71	116.20
9	3	324	TYR	CA-C-N	5.76	127.71	116.20
2	v	346	PRO	N-CA-C	5.74	127.02	112.10
2	H	336	ARG	CG-CD-NE	5.73	123.83	111.80
2	v	336	ARG	CG-CD-NE	5.73	123.83	111.80
26	o	166	ARG	CD-NE-CZ	5.71	131.59	123.60
26	a	166	ARG	NH1-CZ-NH2	-5.69	113.14	119.40
6	K	215	LEU	CB-CG-CD1	-5.66	101.39	111.00
6	y	215	LEU	CB-CG-CD1	-5.66	101.39	111.00
21	D	44	LEU	CA-CB-CG	5.65	128.29	115.30
30	s	14	VAL	CG1-CB-CG2	-5.65	101.86	110.90
2	H	155	PRO	CA-C-N	-5.64	104.80	117.20
2	v	155	PRO	CA-C-N	-5.64	104.80	117.20
26	o	45	ARG	NE-CZ-NH2	-5.62	117.49	120.30
8	O	332	HIS	N-CA-C	-5.60	95.88	111.00
8	2	332	HIS	N-CA-C	-5.60	95.88	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
10	Q	162	ASP	C-N-CA	-5.55	107.81	121.70
10	4	162	ASP	C-N-CA	-5.55	107.81	121.70
20	i	127	ARG	NE-CZ-NH2	-5.54	117.53	120.30
26	a	166	ARG	CD-NE-CZ	5.49	131.29	123.60
9	P	79	GLU	N-CA-CB	-5.47	100.75	110.60
9	3	79	GLU	N-CA-CB	-5.47	100.75	110.60
13	T	283	LEU	CA-CB-CG	-5.47	102.72	115.30
13	7	283	LEU	CA-CB-CG	-5.47	102.72	115.30
21	D	70	GLU	CG-CD-OE2	5.44	129.18	118.30
22	k	53	LEU	CB-CG-CD2	-5.44	101.76	111.00
26	a	61	TYR	CB-CG-CD1	5.42	124.25	121.00
20	C	127	ARG	NE-CZ-NH2	-5.39	117.60	120.30
17	Y	7	PRO	N-CA-CB	5.33	109.70	103.30
17	AB	7	PRO	N-CA-CB	5.33	109.70	103.30
10	Q	162	ASP	CA-C-N	-5.31	105.52	117.20
10	4	162	ASP	CA-C-N	-5.31	105.52	117.20
26	o	166	ARG	NH1-CZ-NH2	-5.30	113.57	119.40
2	H	261	PHE	CB-CA-C	5.28	120.95	110.40
2	v	261	PHE	CB-CA-C	5.28	120.95	110.40
5	J	374	ARG	NE-CZ-NH1	5.24	122.92	120.30
11	R	96	GLY	N-CA-C	-5.24	100.00	113.10
5	x	374	ARG	NE-CZ-NH1	5.24	122.92	120.30
11	5	96	GLY	N-CA-C	-5.24	100.00	113.10
12	6	222	ASP	CB-CG-OD2	5.21	122.99	118.30
10	Q	203	PRO	C-N-CD	5.20	139.33	128.40
10	4	203	PRO	C-N-CD	5.20	139.33	128.40
27	b	75	ARG	NE-CZ-NH1	5.19	122.89	120.30
12	S	465	ASP	CB-CG-OD2	5.18	122.97	118.30
12	6	465	ASP	CB-CG-OD2	5.18	122.97	118.30
21	D	147	LEU	CB-CG-CD1	-5.18	102.19	111.00
5	J	374	ARG	NE-CZ-NH2	-5.12	117.74	120.30
5	x	374	ARG	NE-CZ-NH2	-5.12	117.74	120.30
21	j	147	LEU	CB-CG-CD1	-5.11	102.32	111.00
3	L	294	ARG	NE-CZ-NH1	5.10	122.85	120.30
16	W	22	LEU	CA-CB-CG	-5.10	103.57	115.30
3	z	294	ARG	NE-CZ-NH1	5.10	122.85	120.30
16	AA	22	LEU	CA-CB-CG	-5.10	103.57	115.30
21	D	70	GLU	CG-CD-OE1	-5.08	108.14	118.30
1	I	226	GLY	C-N-CD	5.06	139.03	128.40
1	w	226	GLY	C-N-CD	5.06	139.03	128.40
31	t	148	LEU	CB-CG-CD2	-5.05	102.42	111.00
3	L	50	LEU	N-CA-C	5.03	124.58	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	z	50	LEU	N-CA-C	5.03	124.58	111.00

There are no chirality outliers.

All (120) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
4	0	279	ALA	Mainchain,Peptide
4	0	362	ARG	Sidechain
7	1	208	LEU	Peptide
7	1	724	VAL	Peptide
7	1	807	LYS	Peptide
8	2	285	PRO	Peptide
9	3	78	LYS	Mainchain,Peptide
10	4	162	ASP	Peptide
10	4	202	CYS	Mainchain,Peptide
10	4	32	LYS	Mainchain,Peptide
10	4	37	GLU	Mainchain,Peptide
11	5	14	ASN	Mainchain,Peptide
11	5	30	GLU	Mainchain,Peptide
11	5	32	ARG	Mainchain,Peptide
11	5	33	GLY	Peptide
11	5	95	LEU	Mainchain,Peptide
13	7	318	PHE	Mainchain,Peptide
14	8	239	ASP	Peptide
15	9	112	TYR	Peptide
15	9	49	VAL	Mainchain,Peptide
16	AA	103	LYS	Peptide
16	AA	145	GLU	Peptide
16	AA	146	GLU	Peptide
16	AA	160	LEU	Peptide
16	AA	161	ASN	Peptide
16	AA	2	VAL	Peptide
16	AA	22	LEU	Mainchain,Peptide
17	AB	16	ASP	Peptide
17	AB	43	TRP	Peptide
18	AC	147	SER	Peptide
18	AC	200	ALA	Mainchain,Peptide
18	AC	260	SER	Mainchain,Peptide
18	AC	355	ASN	Peptide
18	AC	837	LEU	Peptide
2	H	336	ARG	Sidechain
1	I	105	THR	Peptide

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Mol	Chain	Res	Type	Group
1	I	137	SER	Peptide
1	I	299	SER	Mainchain,Peptide
5	J	242	ALA	Peptide
6	K	149	SER	Mainchain,Peptide
3	L	226	GLN	Mainchain,Peptide
3	L	244	SER	Peptide
4	M	279	ALA	Mainchain,Peptide
4	M	362	ARG	Sidechain
7	N	208	LEU	Peptide
7	N	724	VAL	Peptide
7	N	807	LYS	Peptide
8	O	285	PRO	Peptide
9	P	78	LYS	Mainchain,Peptide
10	Q	162	ASP	Peptide
10	Q	202	CYS	Mainchain,Peptide
10	Q	32	LYS	Mainchain,Peptide
10	Q	37	GLU	Mainchain,Peptide
11	R	14	ASN	Mainchain,Peptide
11	R	30	GLU	Mainchain,Peptide
11	R	32	ARG	Mainchain,Peptide
11	R	33	GLY	Peptide
11	R	95	LEU	Mainchain,Peptide
13	T	318	PHE	Mainchain,Peptide
14	U	239	ASP	Peptide
15	V	112	TYR	Peptide
15	V	49	VAL	Mainchain,Peptide
16	W	103	LYS	Peptide
16	W	145	GLU	Peptide
16	W	146	GLU	Peptide
16	W	160	LEU	Peptide
16	W	161	ASN	Peptide
16	W	2	VAL	Peptide
16	W	22	LEU	Mainchain,Peptide
17	Y	16	ASP	Peptide
17	Y	43	TRP	Peptide
18	Z	147	SER	Peptide
18	Z	200	ALA	Mainchain,Peptide
18	Z	260	SER	Mainchain,Peptide
18	Z	355	ASN	Peptide
18	Z	837	LEU	Peptide
27	b	187	ARG	Mainchain,Peptide
2	v	336	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	w	105	THR	Peptide
1	w	137	SER	Peptide
1	w	299	SER	Mainchain,Peptide
5	x	242	ALA	Peptide
6	y	149	SER	Mainchain,Peptide
3	z	226	GLN	Mainchain,Peptide
3	z	244	SER	Peptide

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	I	2720	0	2686	879	0
1	w	2720	0	2686	0	0
2	H	2893	0	2843	712	0
2	v	2893	0	2843	0	0
3	L	2860	0	2826	796	0
3	z	2860	0	2826	0	0
4	0	2858	0	2853	623	0
4	M	2858	0	2853	691	0
5	J	2820	0	2927	756	0
5	x	2820	0	2927	0	0
6	K	3039	0	3076	951	0
6	y	3039	0	3076	0	0
7	1	5449	0	4576	626	0
7	N	5449	0	4576	642	0
8	2	2375	0	1869	215	0
8	O	2369	0	1862	201	0
9	3	2831	0	2386	358	0
9	P	2832	0	2388	347	0
10	4	2956	0	2669	567	0
10	Q	2956	0	2669	558	0
11	5	2770	0	2480	450	0
11	R	2767	0	2473	475	0
12	6	2732	0	2215	279	0
12	S	2723	0	2202	281	0
13	7	1699	0	1364	221	0
13	T	1699	0	1364	226	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
14	8	2131	0	2039	393	0
14	U	2131	0	2039	388	0
15	9	2009	0	1973	276	0
15	V	2011	0	1980	287	0
16	AA	1300	0	1134	200	0
16	W	1300	0	1134	215	0
17	AB	316	0	160	24	0
17	Y	316	0	160	25	0
18	AC	3608	0	1688	192	0
18	Z	3608	0	1688	203	0
19	B	1845	0	1805	62	0
19	h	1853	0	1827	0	0
20	C	1737	0	1673	67	0
20	i	1744	0	1693	0	0
21	D	1916	0	1857	37	0
21	j	1913	0	1848	0	0
22	E	1724	0	1525	43	0
22	k	1691	0	1468	0	0
23	F	1766	0	1714	40	0
23	l	1726	0	1722	0	0
24	G	1850	0	1822	48	0
24	m	1850	0	1822	0	0
25	X	1873	0	1832	43	0
25	n	1873	0	1832	0	0
26	a	1509	0	1473	0	0
26	o	1509	0	1473	0	0
27	b	1643	0	1644	0	0
27	p	1643	0	1644	0	0
28	c	1585	0	1598	0	0
28	q	1585	0	1598	0	0
29	d	1570	0	1547	0	0
29	r	1570	0	1547	0	0
30	e	1548	0	1499	0	0
30	s	1551	0	1508	0	0
31	f	1644	0	1627	0	0
31	t	1644	0	1627	0	0
32	g	1672	0	1630	0	0
32	u	1678	0	1640	0	0
33	0	27	0	12	9	0
33	H	27	0	12	6	0
33	I	27	0	12	23	0
33	J	27	0	12	21	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
33	K	27	0	12	23	0
33	L	27	0	12	16	0
33	M	27	0	12	11	0
33	v	27	0	12	0	0
33	w	27	0	12	0	0
33	x	27	0	12	0	0
33	y	27	0	12	0	0
33	z	27	0	12	0	0
All	All	142753	0	130149	12299	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 62.

All (12299) 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)
14:8:70:LEU:HD21	14:8:111:LEU:CD2	1.28	1.64
3:L:238:ILE:HD11	3:L:257:LEU:CA	1.17	1.63
1:I:339:PRO:HB3	2:H:425:ALA:CB	1.28	1.61
18:Z:667:GLY:HA2	18:Z:671:ALA:CB	1.19	1.61
5:J:151:ILE:HD11	5:J:198:LEU:CD2	1.11	1.58
5:J:137:LEU:CD1	5:J:220:VAL:HG13	1.12	1.58
18:AC:667:GLY:HA2	18:AC:671:ALA:CB	1.19	1.57
6:K:207:PRO:HG2	6:K:335:LEU:CD2	1.23	1.56
3:L:338:PHE:CZ	3:L:375:ALA:HB2	1.37	1.55
6:K:100:THR:HG21	6:K:112:TYR:CZ	1.35	1.54
7:1:616:ARG:CZ	7:1:650:TYR:HD2	1.15	1.54
18:Z:667:GLY:CA	18:Z:671:ALA:HB3	1.34	1.54
6:K:115:ILE:HD11	6:K:121:ARG:CZ	1.33	1.54
14:8:23:PHE:CE2	14:8:126:VAL:HG11	1.01	1.54
1:I:424:GLU:HA	1:I:428:TYR:CD2	1.38	1.54
18:AC:667:GLY:CA	18:AC:671:ALA:HB3	1.34	1.53
14:U:23:PHE:CE2	14:U:126:VAL:HG11	1.01	1.53
7:N:616:ARG:CZ	7:N:650:TYR:HD2	1.15	1.53
14:8:22:HIS:CD2	14:8:35:VAL:CG1	1.92	1.52
1:I:230:THR:CG2	1:I:353:PHE:HB3	1.30	1.52
14:U:72:HIS:CE1	14:U:111:LEU:HD11	1.44	1.52
3:L:338:PHE:HD1	3:L:378:LYS:NZ	1.01	1.50
14:U:22:HIS:CD2	14:U:35:VAL:CG1	1.92	1.50
6:K:207:PRO:CG	6:K:335:LEU:HD21	1.04	1.50
10:4:253:TYR:CD1	10:4:319:ILE:HD11	1.49	1.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:K:115:ILE:CD1	6:K:121:ARG:NH1	1.74	1.46
6:K:207:PRO:CB	6:K:335:LEU:HD21	1.40	1.46
10:Q:253:TYR:CD1	10:Q:319:ILE:HD11	1.49	1.46
2:H:111:TYR:CE1	2:H:125:LEU:CD2	1.96	1.45
4:M:212:PHE:CD1	4:M:217:ILE:HD11	1.49	1.45
12:S:228:ARG:HH21	12:S:257:ASN:CG	1.16	1.45
5:J:86:LEU:HD23	5:J:96:VAL:CG2	1.44	1.45
2:H:157:ILE:HG21	2:H:263:MET:SD	1.56	1.45
18:Z:671:ALA:O	18:Z:675:PHE:CB	1.64	1.45
6:K:133:HIS:ND1	6:K:136:SER:HB2	1.13	1.45
14:8:23:PHE:CE2	14:8:126:VAL:CG1	1.98	1.44
2:H:99:THR:CG2	2:H:142:VAL:HG21	1.47	1.44
18:AC:671:ALA:O	18:AC:675:PHE:CB	1.64	1.44
14:U:23:PHE:CE2	14:U:126:VAL:CG1	1.98	1.44
11:5:186:LEU:N	11:5:201:PHE:HZ	1.15	1.44
6:K:293:LEU:HD22	6:K:326:ARG:NH1	1.16	1.43
7:1:616:ARG:CZ	7:1:650:TYR:CD2	2.00	1.43
14:8:224:HIS:O	14:8:228:TYR:CD1	1.70	1.43
5:J:151:ILE:CD1	5:J:198:LEU:CD2	1.94	1.43
5:J:151:ILE:CD1	5:J:198:LEU:HD22	1.49	1.43
12:6:448:GLU:O	12:6:461:LYS:CG	1.67	1.43
14:U:224:HIS:O	14:U:228:TYR:CD1	1.70	1.43
4:0:212:PHE:CD1	4:0:217:ILE:HD11	1.49	1.43
5:J:137:LEU:CD1	5:J:224:ILE:HD11	1.47	1.43
3:L:145:LEU:HG	3:L:149:ILE:CD1	1.48	1.42
5:J:133:PRO:HG2	5:J:237:MET:CE	1.50	1.42
5:J:189:TYR:CZ	5:J:316:GLU:HG2	1.53	1.42
4:M:399:VAL:CA	4:M:427:VAL:HG21	1.48	1.42
11:R:186:LEU:N	11:R:201:PHE:CZ	1.88	1.42
7:N:616:ARG:CZ	7:N:650:TYR:CD2	2.00	1.42
1:I:118:ASP:OD1	1:I:120:HIS:CD2	1.71	1.41
12:S:448:GLU:O	12:S:461:LYS:CG	1.67	1.41
4:0:399:VAL:CA	4:0:427:VAL:HG21	1.48	1.41
12:6:228:ARG:HH21	12:6:257:ASN:CG	1.16	1.41
3:L:238:ILE:CD1	3:L:257:LEU:HA	1.50	1.40
2:H:299:MET:HE3	2:H:328:ASP:CB	1.52	1.40
3:L:338:PHE:CD1	3:L:378:LYS:NZ	1.87	1.40
6:K:115:ILE:HD11	6:K:121:ARG:NH1	1.21	1.40
11:5:186:LEU:N	11:5:201:PHE:CZ	1.88	1.40
11:5:185:GLY:C	11:5:201:PHE:CZ	1.94	1.40
11:R:183:TYR:CE1	11:R:213:LEU:HD11	1.55	1.39

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:8:79:TYR:CE2	14:8:91:ILE:CG1	2.05	1.39
11:R:185:GLY:C	11:R:201:PHE:CZ	1.94	1.39
2:H:111:TYR:CE1	2:H:125:LEU:HD23	1.53	1.39
1:I:234:LEU:HD11	33:I:501:ADP:N3	1.31	1.39
5:J:137:LEU:CD1	5:J:220:VAL:CG1	1.97	1.39
11:R:344:HIS:CE1	11:R:359:PRO:HG3	1.56	1.39
11:5:183:TYR:CE1	11:5:213:LEU:HD11	1.55	1.39
14:U:23:PHE:HE2	14:U:126:VAL:CG1	1.32	1.39
18:Z:659:LEU:O	18:Z:662:MET:CB	1.68	1.38
11:R:186:LEU:N	11:R:201:PHE:HZ	1.15	1.38
3:L:126:ASP:OD2	3:L:197:LYS:CE	1.71	1.38
1:I:287:ILE:CD1	1:I:331:THR:CG2	2.00	1.38
3:L:265:ASP:OD2	3:L:291:ARG:NH2	1.57	1.38
6:K:100:THR:HG21	6:K:112:TYR:CE1	1.59	1.37
14:U:94:TRP:CE3	14:U:121:LEU:HD13	1.59	1.37
14:U:215:VAL:HA	14:U:220:LEU:CB	1.54	1.37
14:8:94:TRP:CE3	14:8:121:LEU:HD13	1.59	1.36
2:H:99:THR:HG21	2:H:142:VAL:CG2	1.54	1.36
3:L:69:PHE:CE2	3:L:83:CYS:SG	2.16	1.36
6:K:345:PHE:CD2	6:K:360:LEU:HG	1.58	1.36
3:L:198:VAL:CG1	3:L:203:ILE:HD11	1.55	1.36
3:L:69:PHE:HE2	3:L:83:CYS:SG	1.47	1.36
5:J:235:PHE:CE1	5:J:276:LEU:HD22	1.60	1.36
11:5:344:HIS:CE1	11:5:359:PRO:HG3	1.56	1.35
6:K:93:LEU:CD1	6:K:94:GLU:HG3	1.54	1.35
14:8:23:PHE:HE2	14:8:126:VAL:CG1	1.32	1.35
4:0:249:LEU:CD2	4:0:283:ILE:HG12	1.56	1.35
14:U:72:HIS:HE1	14:U:111:LEU:CD1	1.38	1.35
2:H:190:VAL:CG2	2:H:212:VAL:HG21	1.53	1.34
1:I:223:ILE:CG1	1:I:347:ILE:HG21	1.56	1.34
11:5:229:ILE:HG13	11:5:295:TYR:CE1	1.63	1.34
5:J:151:ILE:CG1	5:J:198:LEU:HD22	1.55	1.34
14:8:79:TYR:CE2	14:8:91:ILE:HG12	1.59	1.34
5:J:189:TYR:OH	5:J:316:GLU:HG2	1.26	1.34
14:8:215:VAL:HA	14:8:220:LEU:CB	1.54	1.33
4:M:249:LEU:CD2	4:M:283:ILE:HG12	1.56	1.33
6:K:348:ILE:HG22	6:K:379:CYS:SG	1.69	1.33
11:R:229:ILE:HG13	11:R:295:TYR:CE1	1.63	1.33
1:I:230:THR:CG2	1:I:353:PHE:CB	2.04	1.33
1:I:287:ILE:CD1	1:I:331:THR:HG23	1.53	1.33
3:L:238:ILE:CD1	3:L:257:LEU:CA	2.05	1.33

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:226:GLN:HB3	3:L:273:VAL:CG2	1.59	1.33
12:S:476:PHE:O	12:S:480:ILE:CD1	1.77	1.32
2:H:255:ARG:O	2:H:259:GLU:HG2	1.27	1.32
12:S:165:ALA:CB	12:S:203:LEU:HD11	1.59	1.32
5:J:86:LEU:CD2	5:J:96:VAL:HG22	1.59	1.32
18:Z:317:LEU:O	18:Z:321:MET:CB	1.78	1.32
10:Q:396:THR:OG1	15:V:242:GLU:HG2	1.16	1.32
3:L:148:VAL:O	3:L:152:PRO:HG3	1.30	1.31
4:O:295:ARG:CD	4:O:339:ASP:OD2	1.77	1.31
12:6:165:ALA:CB	12:6:203:LEU:HD11	1.59	1.31
14:U:94:TRP:CZ3	14:U:121:LEU:HD13	1.65	1.31
4:M:295:ARG:CD	4:M:339:ASP:OD2	1.77	1.31
1:I:387:LYS:CB	1:I:390:LEU:HD23	1.60	1.31
18:AC:317:LEU:O	18:AC:321:MET:CB	1.78	1.31
13:T:345:GLN:O	13:T:349:ILE:HG13	1.15	1.31
1:I:230:THR:CG2	1:I:353:PHE:O	1.77	1.30
4:M:212:PHE:HD1	4:M:217:ILE:CD1	1.43	1.30
13:T:345:GLN:O	13:T:349:ILE:CG1	1.79	1.30
5:J:30:GLU:O	5:J:34:ILE:CG1	1.80	1.30
5:J:279:GLN:O	5:J:284:GLU:HB3	1.18	1.30
12:6:476:PHE:O	12:6:480:ILE:CD1	1.77	1.30
4:O:212:PHE:HD1	4:O:217:ILE:CD1	1.43	1.30
2:H:111:TYR:CZ	2:H:125:LEU:HD22	1.65	1.30
3:L:322:LYS:NZ	3:L:328:TYR:OH	1.62	1.30
16:W:54:LEU:CB	16:W:85:THR:CB	2.10	1.30
6:K:184:PRO:HA	6:K:191:TYR:CE2	1.66	1.29
14:8:94:TRP:CZ3	14:8:121:LEU:HD13	1.65	1.29
1:I:287:ILE:HD11	1:I:331:THR:CB	1.62	1.29
11:R:256:VAL:O	11:R:259:TYR:CD1	1.85	1.29
4:O:294:LYS:HA	4:O:339:ASP:OD1	1.15	1.29
9:3:55:ARG:O	9:3:56:THR:HG23	1.12	1.29
10:4:105:GLN:O	10:4:109:LEU:HG	1.18	1.29
5:J:137:LEU:CG	5:J:224:ILE:HD11	1.58	1.29
13:7:120:LYS:O	13:7:124:LEU:CB	1.81	1.29
2:H:355:PHE:CE1	2:H:385:ILE:CG2	2.16	1.29
5:J:137:LEU:HD13	5:J:224:ILE:CD1	1.62	1.29
12:S:299:GLN:O	12:S:300:LEU:HD23	1.11	1.29
16:AA:55:ALA:HA	16:AA:83:LYS:O	1.15	1.28
6:K:116:LEU:O	6:K:119:ILE:HD13	1.26	1.28
4:M:80:ILE:O	4:M:84:LYS:HB2	1.15	1.28
11:5:256:VAL:O	11:5:259:TYR:CD1	1.85	1.28

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:339:PRO:CB	2:H:425:ALA:CB	2.09	1.28
16:AA:54:LEU:CB	16:AA:85:THR:CB	2.10	1.28
13:7:345:GLN:O	13:7:349:ILE:CG1	1.79	1.28
5:J:320:PRO:O	5:J:325:ARG:NH1	1.65	1.28
2:H:280:ILE:O	2:H:295:VAL:HG12	1.33	1.28
5:J:118:ASN:HD22	5:J:119:ASP:N	1.32	1.28
6:K:226:ALA:CB	6:K:257:ASN:HD22	1.44	1.28
5:J:86:LEU:CD2	5:J:96:VAL:CG2	2.10	1.28
14:8:224:HIS:O	14:8:228:TYR:HD1	0.96	1.28
3:L:126:ASP:OD2	3:L:197:LYS:CD	1.80	1.28
5:J:189:TYR:CD1	5:J:298:ILE:HD11	1.65	1.28
10:Q:105:GLN:O	10:Q:109:LEU:HG	1.18	1.28
4:O:80:ILE:O	4:O:84:LYS:HB2	1.15	1.27
9:3:209:ILE:HG21	9:3:226:TYR:CZ	1.68	1.27
12:6:228:ARG:NH2	12:6:257:ASN:CG	1.88	1.27
6:K:403:TYR:O	6:K:407:ILE:HD13	1.33	1.27
4:O:249:LEU:HD23	4:O:283:ILE:CG1	1.63	1.27
9:P:243:ILE:CG1	9:P:247:TYR:HE2	1.47	1.27
14:U:23:PHE:CD2	14:U:126:VAL:HG11	1.70	1.27
6:K:90:GLY:O	6:K:130:VAL:HG22	1.28	1.27
6:K:133:HIS:CE1	6:K:136:SER:HB2	1.69	1.27
3:L:150:GLU:O	3:L:153:LEU:HG	1.16	1.27
12:6:299:GLN:O	12:6:300:LEU:HD23	1.11	1.27
5:J:189:TYR:CE2	5:J:316:GLU:CG	2.17	1.27
6:K:170:MET:O	6:K:174:LYS:HB2	1.31	1.27
9:P:209:ILE:HG21	9:P:226:TYR:CZ	1.68	1.27
2:H:88:GLN:O	2:H:92:PRO:HD3	1.24	1.26
1:I:343:ARG:HH21	1:I:346:ARG:NH2	1.33	1.26
13:7:345:GLN:O	13:7:349:ILE:HG13	1.15	1.26
4:M:249:LEU:HD23	4:M:283:ILE:CG1	1.63	1.26
9:P:55:ARG:O	9:P:56:THR:HG23	1.12	1.26
6:K:100:THR:CG2	6:K:112:TYR:CE1	2.19	1.26
8:O:11:SER:O	8:O:19:PRO:CG	1.83	1.26
9:3:55:ARG:O	9:3:56:THR:CG2	1.83	1.26
10:4:264:PRO:CB	10:4:295:LYS:HE3	1.65	1.26
10:4:396:THR:OG1	15:9:242:GLU:HG2	1.16	1.26
7:1:616:ARG:NE	7:1:650:TYR:CD2	2.03	1.26
8:2:35:HIS:CG	16:AA:14:GLU:HG2	1.71	1.26
13:T:120:LYS:O	13:T:124:LEU:CB	1.81	1.26
1:I:118:ASP:OD1	1:I:120:HIS:HD2	0.95	1.26
6:K:207:PRO:CG	6:K:335:LEU:CD2	1.90	1.26

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:W:55:ALA:HA	16:W:83:LYS:O	1.15	1.26
14:8:22:HIS:CD2	14:8:35:VAL:HG11	1.61	1.26
9:3:243:ILE:CG1	9:3:247:TYR:HE2	1.47	1.25
2:H:284:ARG:HA	2:H:296:GLN:OE1	1.24	1.25
5:J:118:ASN:ND2	5:J:119:ASP:H	1.34	1.25
3:L:126:ASP:OD2	3:L:197:LYS:NZ	1.67	1.25
2:H:209:PRO:HD3	4:M:405:MET:SD	1.75	1.25
8:O:35:HIS:CG	16:W:14:GLU:HG2	1.71	1.25
3:L:327:ASP:CG	3:L:330:ALA:HB3	1.56	1.25
3:L:383:LYS:HG2	3:L:386:TYR:OH	1.34	1.25
9:P:55:ARG:O	9:P:56:THR:CG2	1.83	1.25
10:Q:163:LYS:HD2	10:Q:200:ILE:CG2	1.66	1.25
8:2:11:SER:O	8:2:19:PRO:CG	1.83	1.25
14:8:23:PHE:CD2	14:8:126:VAL:HG11	1.70	1.25
3:L:84:ARG:O	3:L:85:ARG:HG2	1.33	1.25
14:8:70:LEU:CD2	14:8:111:LEU:CD2	2.16	1.24
10:Q:264:PRO:CB	10:Q:295:LYS:HE3	1.65	1.24
12:S:228:ARG:NH2	12:S:257:ASN:CG	1.88	1.24
1:I:313:LEU:CD1	1:I:340:ALA:HB1	1.66	1.24
4:M:294:LYS:HA	4:M:339:ASP:OD1	1.15	1.24
7:N:616:ARG:NE	7:N:650:TYR:CD2	2.03	1.24
10:4:183:LEU:HD11	10:4:220:ALA:CB	1.67	1.24
1:I:398:ILE:HG22	1:I:419:PHE:CD1	1.72	1.24
3:L:326:ILE:HG21	3:L:328:TYR:CE2	1.72	1.24
2:H:245:LEU:CD1	2:H:280:ILE:HD13	1.65	1.24
1:I:230:THR:HG21	1:I:353:PHE:CB	1.64	1.24
5:J:143:VAL:HG11	5:J:213:ARG:CD	1.67	1.24
1:I:103:ARG:HG2	1:I:160:ILE:CG2	1.67	1.24
3:L:338:PHE:HZ	3:L:375:ALA:CB	1.48	1.24
10:4:163:LYS:HD2	10:4:200:ILE:CG2	1.66	1.24
5:J:184:LYS:NZ	5:J:281:ASP:OD1	1.66	1.24
5:J:354:ALA:HA	5:J:358:GLU:OE1	1.07	1.24
6:K:184:PRO:CG	6:K:191:TYR:OH	1.84	1.24
14:U:224:HIS:O	14:U:228:TYR:HD1	0.96	1.24
6:K:344:ILE:O	6:K:348:ILE:HG12	1.30	1.24
10:4:264:PRO:HB3	10:4:295:LYS:CE	1.68	1.24
14:8:72:HIS:CE1	14:8:111:LEU:HD11	1.72	1.23
1:I:369:THR:HB	1:I:374:LEU:CD1	1.66	1.23
6:K:394:VAL:CG1	6:K:398:ASP:CB	2.17	1.23
3:L:264:MET:SD	3:L:275:MET:HE1	1.78	1.23
25:X:150:MET:O	25:X:151:ILE:HG13	2.92	1.23

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:299:MET:CE	2:H:303:ILE:HD11	1.68	1.23
4:O:374:ASN:O	4:O:414:GLU:CB	1.85	1.23
1:I:122:ILE:HD11	1:I:130:GLU:CB	1.68	1.23
12:6:472:PRO:O	12:6:476:PHE:CD2	1.91	1.23
5:J:372:ARG:NH1	6:K:179:GLU:OE2	1.70	1.23
6:K:348:ILE:CG2	6:K:379:CYS:SG	2.26	1.23
4:M:231:THR:O	33:M:501:ADP:N7	1.70	1.23
18:Z:318:THR:O	18:Z:322:SER:CB	1.87	1.23
12:6:448:GLU:O	12:6:461:LYS:CB	1.86	1.23
1:I:287:ILE:HD11	1:I:331:THR:OG1	1.16	1.23
6:K:394:VAL:HG13	6:K:398:ASP:CB	1.67	1.23
4:M:374:ASN:O	4:M:414:GLU:CB	1.85	1.23
9:P:107:GLN:O	9:P:141:GLU:OE2	1.57	1.23
8:2:35:HIS:HB2	16:AA:14:GLU:CG	1.68	1.23
10:Q:183:LEU:HD11	10:Q:220:ALA:CB	1.67	1.23
14:U:70:LEU:HD11	14:U:111:LEU:CD2	1.67	1.23
10:Q:264:PRO:HB3	10:Q:295:LYS:CE	1.68	1.23
12:S:472:PRO:O	12:S:476:PHE:CD2	1.91	1.23
9:3:46:THR:O	9:3:50:LEU:CD2	1.86	1.23
5:J:160:GLU:HB3	5:J:315:ILE:CD1	1.69	1.23
4:M:295:ARG:HD2	4:M:339:ASP:OD2	1.05	1.23
14:8:79:TYR:CD2	14:8:91:ILE:HG13	1.74	1.22
3:L:338:PHE:CZ	3:L:375:ALA:CB	2.19	1.22
8:O:35:HIS:HB2	16:W:14:GLU:CG	1.68	1.22
5:J:189:TYR:CZ	5:J:316:GLU:CG	2.22	1.22
3:L:138:LEU:O	3:L:140:GLU:N	1.70	1.22
4:O:226:TYR:CB	4:O:335:VAL:CG2	2.17	1.22
2:H:280:ILE:O	2:H:295:VAL:CG1	1.87	1.22
2:H:225:CYS:O	2:H:229:VAL:HG23	1.35	1.22
6:K:345:PHE:CD2	6:K:360:LEU:CG	2.22	1.22
4:O:399:VAL:HA	4:O:427:VAL:CG2	1.69	1.22
9:P:46:THR:O	9:P:50:LEU:CD2	1.86	1.22
9:3:107:GLN:O	9:3:141:GLU:OE2	1.57	1.22
1:I:223:ILE:CD1	1:I:347:ILE:HG21	1.69	1.22
5:J:160:GLU:OE1	5:J:313:ARG:NE	1.68	1.22
6:K:292:LEU:O	6:K:296:MET:HB2	1.34	1.22
15:V:306:THR:O	15:V:310:LYS:CE	1.88	1.22
4:O:231:THR:O	33:O:501:ADP:N7	1.70	1.22
3:L:195:PHE:CE1	3:L:229:ILE:HG13	1.74	1.22
3:L:195:PHE:CD1	3:L:229:ILE:HB	1.72	1.22
12:S:448:GLU:O	12:S:461:LYS:CB	1.86	1.22

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:156:VAL:CG1	2:H:95:VAL:HB	1.70	1.22
6:K:293:LEU:CD2	6:K:326:ARG:NH1	2.02	1.21
4:M:226:TYR:CB	4:M:335:VAL:CG2	2.17	1.21
4:M:80:ILE:HG23	4:M:84:LYS:CG	1.69	1.21
4:M:180:ARG:NH1	4:M:241:ALA:O	1.71	1.21
5:J:150:MET:O	5:J:151:ILE:HG13	1.37	1.21
4:O:180:ARG:NH1	4:O:241:ALA:O	1.71	1.21
11:5:229:ILE:HD11	11:5:295:TYR:CZ	1.76	1.21
3:L:235:ILE:O	3:L:239:GLY:N	1.72	1.21
4:O:373:MET:CE	4:O:415:LEU:HD11	1.71	1.21
14:8:70:LEU:HD11	14:8:72:HIS:CE1	1.75	1.21
5:J:279:GLN:O	5:J:284:GLU:CB	1.88	1.21
6:K:225:ALA:HB1	6:K:259:PRO:O	1.37	1.21
5:J:72:TYR:CE2	5:J:121:TYR:OH	1.92	1.21
3:L:215:ILE:HD13	3:L:260:LEU:CD2	1.69	1.21
10:4:236:PHE:CE1	10:4:251:LEU:HG	1.76	1.21
5:J:41:ASN:O	5:J:44:ARG:HB2	1.41	1.21
6:K:394:VAL:CG1	6:K:398:ASP:HB2	1.69	1.21
4:O:80:ILE:HG23	4:O:84:LYS:CG	1.69	1.21
11:R:256:VAL:O	11:R:259:TYR:HD1	1.21	1.21
10:4:258:LYS:CE	10:4:266:ASP:HB3	1.70	1.20
7:1:35:TRP:CH2	12:6:273:LYS:HD2	1.76	1.20
4:M:399:VAL:HA	4:M:427:VAL:CG2	1.69	1.20
15:9:306:THR:O	15:9:310:LYS:CE	1.88	1.20
8:2:341:LEU:HB3	8:2:345:GLN:OE1	1.42	1.20
3:L:184:ALA:HB2	3:L:231:PHE:CE1	1.76	1.20
10:Q:258:LYS:CE	10:Q:266:ASP:HB3	1.70	1.20
4:O:341:ALA:O	4:O:347:ARG:NH1	1.75	1.19
13:T:332:SER:OG	15:V:303:MET:O	1.59	1.19
4:O:225:MET:HG2	4:O:354:PHE:CE2	1.77	1.19
2:H:245:LEU:HD12	2:H:280:ILE:CD1	1.71	1.19
1:I:136:LEU:CD2	2:H:87:LEU:HD22	1.72	1.19
4:M:225:MET:HG2	4:M:354:PHE:CE2	1.77	1.19
10:Q:236:PHE:CE1	10:Q:251:LEU:HG	1.76	1.19
3:L:150:GLU:O	3:L:153:LEU:CG	1.90	1.19
9:3:231:ILE:CG1	9:3:247:TYR:OH	1.90	1.19
1:I:421:LYS:O	1:I:425:ASN:HB2	1.40	1.19
6:K:149:SER:N	6:K:150:SER:HA	1.44	1.19
4:M:139:LEU:O	4:M:140:VAL:HG13	1.39	1.19
9:P:48:LEU:HD21	9:P:90:LEU:CD1	1.72	1.19
18:AC:318:THR:O	18:AC:322:SER:CB	1.89	1.19

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:J:189:TYR:CE2	5:J:316:GLU:HG2	1.76	1.19
4:M:373:MET:CE	4:M:415:LEU:HD11	1.71	1.19
8:O:341:LEU:HB3	8:O:345:GLN:OE1	1.42	1.19
4:O:295:ARG:HD2	4:O:339:ASP:OD2	1.05	1.19
6:K:64:GLU:O	6:K:68:LEU:HD12	1.42	1.19
6:K:160:PRO:CG	6:K:220:ALA:HB3	1.71	1.19
1:I:287:ILE:O	1:I:290:ILE:HG22	1.43	1.19
4:M:226:TYR:HB2	4:M:335:VAL:CG2	1.73	1.18
7:N:549:ALA:HB1	7:N:581:SER:CB	1.72	1.18
9:P:231:ILE:CG1	9:P:247:TYR:OH	1.90	1.18
1:I:180:PRO:HG3	1:I:240:ALA:C	1.61	1.18
3:L:58:GLY:CA	3:L:74:THR:HG23	1.72	1.18
4:O:226:TYR:HB2	4:O:335:VAL:CG2	1.73	1.18
13:7:330:ILE:CG2	13:7:334:GLU:OE1	1.92	1.18
3:L:67:GLU:O	3:L:82:GLY:HA2	1.39	1.18
4:O:139:LEU:O	4:O:140:VAL:HG13	1.39	1.18
5:J:224:ILE:HG23	5:J:237:MET:SD	1.83	1.18
7:N:35:TRP:CH2	12:S:273:LYS:HD2	1.76	1.18
6:K:86:PRO:O	6:K:134:LYS:HE3	1.38	1.18
13:7:332:SER:OG	15:9:303:MET:O	1.59	1.18
1:I:230:THR:HG21	1:I:353:PHE:O	1.31	1.18
3:L:148:VAL:HG22	3:L:167:PRO:CB	1.73	1.18
13:T:330:ILE:CG2	13:T:334:GLU:OE1	1.92	1.18
7:1:35:TRP:CH2	12:6:273:LYS:CE	2.27	1.18
9:P:384:LEU:HB3	9:P:388:GLU:HB2	1.20	1.18
5:J:354:ALA:CA	5:J:358:GLU:OE1	1.90	1.18
12:S:472:PRO:HB2	12:S:476:PHE:HE2	1.09	1.18
4:M:376:SER:HB3	4:M:414:GLU:OE1	1.44	1.18
9:3:48:LEU:HD21	9:3:90:LEU:CD1	1.72	1.17
1:I:250:VAL:CG2	1:I:270:LEU:HD13	1.71	1.17
4:M:187:ASP:O	4:M:368:ILE:HD13	1.44	1.17
4:M:341:ALA:O	4:M:347:ARG:NH1	1.75	1.17
14:U:79:TYR:CD2	14:U:91:ILE:HG13	1.79	1.17
7:1:549:ALA:HB1	7:1:581:SER:CB	1.72	1.17
5:J:114:VAL:CG1	5:J:126:ILE:HG23	1.73	1.17
14:U:23:PHE:CD2	14:U:126:VAL:HG21	1.79	1.17
4:O:374:ASN:O	4:O:414:GLU:HB2	1.01	1.17
20:C:132:SER:HB3	20:C:162:MET:CE	1.74	1.17
6:K:54:LEU:O	6:K:58:GLU:HB2	1.41	1.17
3:L:327:ASP:OD1	3:L:330:ALA:CB	1.93	1.17
11:R:127:THR:O	11:R:131:THR:HG23	1.41	1.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:U:70:LEU:CD1	14:U:111:LEU:HD21	1.74	1.17
14:U:215:VAL:CA	14:U:220:LEU:CB	2.23	1.17
15:V:267:PRO:HD2	15:V:268:GLU:OE1	1.45	1.17
14:8:94:TRP:CZ3	14:8:121:LEU:CD1	2.28	1.17
5:J:137:LEU:HD22	5:J:224:ILE:CD1	1.74	1.17
7:1:474:ARG:O	7:1:478:SER:OG	1.61	1.16
8:2:341:LEU:CB	8:2:345:GLN:OE1	1.91	1.16
1:I:230:THR:HG21	1:I:353:PHE:C	1.63	1.16
14:U:79:TYR:CE2	14:U:91:ILE:HG13	1.78	1.16
9:3:388:GLU:O	9:3:392:PHE:HD2	1.26	1.16
11:5:127:THR:O	11:5:131:THR:HG23	1.41	1.16
6:K:133:HIS:ND1	6:K:136:SER:CB	2.08	1.16
5:J:67:GLN:HA	6:K:136:SER:OG	1.45	1.16
4:M:374:ASN:O	4:M:414:GLU:HB2	1.01	1.16
5:J:137:LEU:HD13	5:J:220:VAL:CG1	1.66	1.16
9:3:384:LEU:HB3	9:3:388:GLU:HB2	1.20	1.16
11:5:186:LEU:HD11	11:5:287:LEU:HG	1.22	1.16
11:5:256:VAL:O	11:5:259:TYR:HD1	1.21	1.16
10:4:402:GLU:HG3	15:9:249:LEU:HD11	1.18	1.16
15:9:267:PRO:HD2	15:9:268:GLU:OE1	1.45	1.16
4:0:376:SER:HB3	4:0:414:GLU:OE1	1.44	1.16
6:K:92:PHE:O	6:K:127:ASN:OD1	1.63	1.16
7:N:35:TRP:CH2	12:S:273:LYS:CE	2.27	1.16
8:O:341:LEU:CB	8:O:345:GLN:OE1	1.91	1.16
8:2:132:LYS:HB2	8:2:162:TYR:OH	1.45	1.16
6:K:184:PRO:HG3	6:K:191:TYR:OH	1.03	1.16
3:L:277:MET:HG3	3:L:295:LEU:HD21	1.23	1.16
3:L:58:GLY:HA2	3:L:74:THR:CG2	1.76	1.16
9:P:388:GLU:O	9:P:392:PHE:HD2	1.26	1.16
14:U:94:TRP:CZ3	14:U:121:LEU:CD1	2.28	1.16
10:4:297:ARG:HB3	10:4:333:GLN:HB3	1.17	1.16
10:4:84:LYS:HE3	10:4:88:LEU:CD2	1.76	1.16
14:8:23:PHE:CD2	14:8:126:VAL:HG21	1.79	1.16
1:I:343:ARG:NH2	1:I:346:ARG:HH21	1.44	1.16
1:I:369:THR:CB	1:I:374:LEU:HD13	1.75	1.16
14:8:215:VAL:CA	14:8:220:LEU:CB	2.23	1.15
10:Q:212:MET:HG3	10:Q:235:ALA:HB1	1.27	1.15
14:U:70:LEU:CD1	14:U:111:LEU:CD2	2.23	1.15
1:I:283:PHE:CE1	1:I:328:ILE:HG22	1.80	1.15
6:K:345:PHE:CD2	6:K:360:LEU:CD2	2.29	1.15
3:L:327:ASP:OD1	3:L:330:ALA:HB3	1.43	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:R:133:ALA:HB3	11:R:136:HIS:HD2	1.03	1.15
5:J:338:LEU:HD21	5:J:383:PHE:HE2	1.06	1.15
7:N:474:ARG:O	7:N:478:SER:OG	1.61	1.15
1:I:170:LEU:CD1	1:I:269:GLU:HB3	1.76	1.15
6:K:163:MET:CG	6:K:221:HIS:HE1	1.59	1.15
11:R:344:HIS:NE2	11:R:359:PRO:HG3	1.61	1.15
14:U:22:HIS:CD2	14:U:35:VAL:HG11	1.61	1.15
1:I:156:VAL:HG12	2:H:95:VAL:CB	1.75	1.15
6:K:121:ARG:O	6:K:123:LEU:N	1.79	1.15
8:O:132:LYS:HB2	8:O:162:TYR:OH	1.45	1.15
10:Q:84:LYS:HE3	10:Q:88:LEU:CD2	1.76	1.15
9:3:243:ILE:CG1	9:3:247:TYR:CE2	2.30	1.15
8:O:35:HIS:CA	16:W:14:GLU:OE2	1.95	1.15
6:K:219:VAL:O	6:K:223:THR:HB	1.45	1.14
4:0:187:ASP:O	4:0:368:ILE:HD13	1.44	1.14
6:K:90:GLY:O	6:K:130:VAL:CG2	1.95	1.14
9:P:317:TRP:HZ2	9:P:351:TRP:CZ3	1.64	1.14
9:3:317:TRP:HZ2	9:3:351:TRP:CZ3	1.64	1.14
10:4:190:LEU:HD23	10:4:217:ILE:HD12	1.29	1.14
13:7:250:ASN:O	13:7:253:ALA:HB3	1.47	1.14
10:Q:402:GLU:HG3	15:V:249:LEU:HD11	1.18	1.14
4:0:288:LEU:HD21	4:0:342:LEU:HD13	1.21	1.14
12:6:299:GLN:O	12:6:300:LEU:CD2	1.94	1.14
2:H:99:THR:CG2	2:H:142:VAL:CG2	2.15	1.14
1:I:200:SER:HB2	1:I:219:PRO:HG3	1.27	1.14
10:Q:163:LYS:HD2	10:Q:200:ILE:HG21	1.17	1.14
1:I:187:ILE:CD1	1:I:194:ILE:HD11	1.76	1.14
6:K:125:LYS:HB3	6:K:126:PRO:CD	1.77	1.14
6:K:93:LEU:HD12	6:K:94:GLU:HG3	1.14	1.14
15:9:53:VAL:HG12	15:9:77:GLN:HE22	1.04	1.14
6:K:57:GLN:O	6:K:61:ILE:HG12	1.47	1.14
3:L:345:ASN:OD1	4:M:349:ASP:OD1	1.66	1.14
14:U:94:TRP:CH2	14:U:121:LEU:HD22	1.83	1.14
8:2:35:HIS:CA	16:AA:14:GLU:OE2	1.95	1.14
11:5:133:ALA:HB3	11:5:136:HIS:HD2	1.03	1.14
6:K:100:THR:CG2	6:K:112:TYR:CZ	2.30	1.14
12:S:299:GLN:O	12:S:300:LEU:CD2	1.94	1.14
11:5:344:HIS:NE2	11:5:359:PRO:HG3	1.61	1.14
20:C:134:LEU:HG	20:C:162:MET:SD	1.88	1.14
3:L:226:GLN:CB	3:L:273:VAL:HG23	1.76	1.14
7:1:154:ALA:HA	7:1:157:THR:CB	1.77	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:5:344:HIS:CE1	11:5:359:PRO:CG	2.30	1.13
1:I:339:PRO:CB	2:H:425:ALA:HB1	1.75	1.13
11:5:250:LEU:CD2	11:5:257:ARG:HB3	1.77	1.13
11:R:250:LEU:CD2	11:R:257:ARG:HB3	1.77	1.13
12:S:169:LEU:HD11	12:S:206:VAL:HG23	1.25	1.13
3:L:205:ASP:CB	3:L:210:GLU:HG2	1.78	1.13
15:V:53:VAL:HG12	15:V:77:GLN:HE22	1.04	1.13
2:H:190:VAL:HG11	2:H:212:VAL:CG2	1.77	1.13
2:H:387:SER:O	2:H:391:GLU:HB2	1.47	1.13
6:K:173:GLN:HE22	6:K:334:PRO:HD3	1.08	1.13
7:N:7:GLY:HA2	13:T:170:GLN:HG2	1.31	1.13
6:K:167:ILE:CD1	6:K:218:ALA:HB2	1.79	1.13
12:6:484:LEU:HD13	13:7:345:GLN:HB3	1.28	1.13
14:8:79:TYR:CZ	14:8:91:ILE:HG12	1.82	1.13
2:H:333:ARG:HG2	2:H:334:PRO:HD2	1.19	1.13
7:N:154:ALA:HA	7:N:157:THR:CB	1.77	1.13
9:P:243:ILE:CG1	9:P:247:TYR:CE2	2.30	1.13
14:8:94:TRP:CH2	14:8:121:LEU:HD22	1.83	1.13
5:J:90:HIS:HB3	5:J:91:PRO:CD	1.79	1.13
8:O:242:SER:O	8:O:279:GLU:OE2	1.67	1.13
1:I:200:SER:CB	1:I:219:PRO:HG3	1.77	1.13
12:S:484:LEU:HD13	13:T:345:GLN:HB3	1.28	1.13
1:I:118:ASP:CG	1:I:120:HIS:CD2	2.22	1.13
6:K:145:PRO:HG2	6:K:256:GLU:HG3	1.31	1.13
2:H:355:PHE:CE1	2:H:385:ILE:HG22	1.80	1.12
2:H:88:GLN:O	2:H:92:PRO:CD	1.95	1.12
2:H:143:ASP:OD2	2:H:146:LYS:HB2	1.47	1.12
2:H:157:ILE:CG2	2:H:263:MET:SD	2.36	1.12
5:J:77:VAL:HB	5:J:86:LEU:HD12	1.20	1.12
3:L:126:ASP:CG	3:L:197:LYS:HD3	1.69	1.12
2:H:119:ALA:HB1	4:M:127:SER:HB3	1.22	1.12
11:R:344:HIS:CE1	11:R:359:PRO:CG	2.30	1.12
3:L:215:ILE:HD13	3:L:260:LEU:HD23	1.27	1.12
4:O:80:ILE:O	4:O:84:LYS:CB	1.97	1.12
5:J:154:LEU:O	5:J:158:ILE:HG13	1.48	1.12
5:J:160:GLU:CB	5:J:315:ILE:CD1	2.26	1.12
1:I:115:ILE:HA	1:I:121:ALA:HB2	1.29	1.12
10:Q:332:GLU:OE1	10:Q:364:LYS:HD3	1.49	1.12
4:O:177:VAL:HG21	4:O:248:PHE:CD2	1.85	1.12
2:H:125:LEU:HA	2:H:149:ILE:HB	1.31	1.12
5:J:189:TYR:CZ	5:J:316:GLU:HB3	1.83	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:J:45:LEU:O	5:J:49:ARG:HB2	1.50	1.12
4:M:202:ILE:HG21	4:M:282:ILE:HD11	1.30	1.12
8:O:73:PRO:HB3	8:O:110:ALA:HB2	1.26	1.12
14:U:79:TYR:CE2	14:U:91:ILE:CG1	2.32	1.12
10:4:212:MET:HG3	10:4:235:ALA:HB1	1.27	1.12
2:H:190:VAL:HG21	2:H:212:VAL:CG2	1.79	1.12
1:I:223:ILE:HG13	1:I:347:ILE:CG2	1.80	1.12
5:J:133:PRO:CG	5:J:237:MET:HE1	1.78	1.12
4:M:177:VAL:HG21	4:M:248:PHE:CD2	1.85	1.12
14:U:43:TRP:HA	14:U:48:LEU:CD2	1.80	1.12
16:AA:52:ILE:HG13	16:AA:52:ILE:O	1.47	1.12
1:I:122:ILE:CD1	1:I:130:GLU:HB3	1.80	1.12
14:U:22:HIS:NE2	14:U:35:VAL:HG13	1.64	1.12
2:H:330:ALA:HB1	2:H:336:ARG:NH1	1.64	1.12
9:3:168:GLU:O	9:3:170:GLN:N	1.83	1.11
12:6:165:ALA:HB2	12:6:203:LEU:HD11	1.28	1.11
15:9:306:THR:O	15:9:310:LYS:HE2	0.94	1.11
1:I:246:THR:OG1	1:I:280:SER:HB3	1.50	1.11
5:J:333:SER:HB2	5:J:338:LEU:CD1	1.80	1.11
3:L:354:ALA:HB1	4:M:215:LEU:HD11	1.27	1.11
9:P:168:GLU:O	9:P:170:GLN:N	1.83	1.11
13:T:116:LEU:O	13:T:120:LYS:HB2	1.50	1.11
10:4:183:LEU:HD11	10:4:220:ALA:HB1	1.16	1.11
10:4:202:CYS:HB2	10:4:203:PRO:HA	1.26	1.11
9:P:448:LYS:HE3	14:U:154:THR:OG1	1.50	1.11
14:8:22:HIS:NE2	14:8:35:VAL:HG13	1.64	1.11
2:H:220:THR:HG21	2:H:343:PHE:HB3	1.23	1.11
1:I:250:VAL:HG21	1:I:270:LEU:HD13	1.21	1.11
1:I:365:PHE:HZ	1:I:383:LEU:HD13	1.08	1.11
6:K:271:ALA:HB2	6:K:289:LEU:HD21	1.26	1.11
12:S:165:ALA:HB2	12:S:203:LEU:HD11	1.28	1.11
13:T:250:ASN:O	13:T:253:ALA:HB3	1.47	1.11
15:V:306:THR:O	15:V:310:LYS:HE2	0.94	1.11
9:P:190:MET:O	9:P:193:CYS:SG	2.08	1.11
11:R:186:LEU:HD11	11:R:287:LEU:HG	1.22	1.11
14:U:131:LEU:HD11	14:U:199:LYS:HD3	1.28	1.11
2:H:90:GLU:HA	2:H:93:LEU:HD23	1.14	1.11
1:I:424:GLU:CA	1:I:428:TYR:CD2	2.34	1.11
7:N:401:LYS:HG2	7:N:438:GLN:CG	1.80	1.11
11:5:241:ILE:HD13	11:5:260:LEU:HD11	1.15	1.11
14:8:43:TRP:HA	14:8:48:LEU:CD2	1.80	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:233:THR:O	2:H:234:ASP:HB2	1.49	1.11
6:K:403:TYR:O	6:K:407:ILE:CD1	1.99	1.11
4:O:226:TYR:CG	4:O:335:VAL:HG21	1.86	1.11
4:M:226:TYR:CG	4:M:335:VAL:HG21	1.86	1.11
13:T:120:LYS:O	13:T:124:LEU:HB2	0.95	1.11
9:3:190:MET:O	9:3:193:CYS:SG	2.08	1.11
14:8:72:HIS:HE1	14:8:111:LEU:CD1	1.64	1.11
1:I:232:LYS:HA	1:I:353:PHE:CE2	1.85	1.11
12:6:448:GLU:C	12:6:461:LYS:CG	2.19	1.11
6:K:371:SER:O	6:K:375:ILE:CD1	1.99	1.11
4:M:202:ILE:CD1	4:M:329:ILE:HD11	1.81	1.11
10:Q:202:CYS:HB2	10:Q:203:PRO:HA	1.26	1.11
10:Q:183:LEU:HD11	10:Q:220:ALA:HB1	1.16	1.11
5:J:90:HIS:HB3	5:J:91:PRO:HD3	1.16	1.10
6:K:371:SER:O	6:K:375:ILE:HD12	1.49	1.10
4:O:384:LEU:HA	4:O:387:CYS:SG	1.91	1.10
7:1:470:ASN:H	7:1:474:ARG:HB2	1.14	1.10
11:5:50:MET:HE3	11:5:53:TYR:HE2	1.15	1.10
14:8:131:LEU:HD11	14:8:199:LYS:HD3	1.28	1.10
2:H:180:CYS:SG	2:H:183:GLN:HG3	1.91	1.10
1:I:106:PRO:HB2	5:J:97:VAL:HG12	1.26	1.10
3:L:238:ILE:HD12	3:L:257:LEU:HB2	1.31	1.10
8:2:242:SER:O	8:2:279:GLU:OE2	1.67	1.10
10:4:163:LYS:HD2	10:4:200:ILE:HG21	1.17	1.10
2:H:172:VAL:CG1	2:H:224:LEU:HD22	1.80	1.10
2:H:245:LEU:HD12	2:H:280:ILE:CG1	1.81	1.10
6:K:354:LEU:HA	6:K:393:ILE:CG2	1.80	1.10
4:M:373:MET:HE3	4:M:415:LEU:HD11	1.25	1.10
4:M:384:LEU:HA	4:M:387:CYS:SG	1.91	1.10
9:3:448:LYS:HE3	14:8:154:THR:OG1	1.50	1.10
13:7:120:LYS:O	13:7:124:LEU:HB2	0.95	1.10
2:H:299:MET:HE3	2:H:328:ASP:CG	1.70	1.10
1:I:187:ILE:HD12	1:I:194:ILE:HD11	1.25	1.10
5:J:30:GLU:O	5:J:34:ILE:HG13	0.95	1.10
3:L:126:ASP:OD2	3:L:197:LYS:HD3	1.42	1.10
9:3:388:GLU:O	9:3:392:PHE:CD2	2.05	1.10
2:H:299:MET:HE2	2:H:303:ILE:HD11	1.26	1.10
5:J:273:MET:CE	5:J:305:LEU:HD21	1.82	1.10
4:M:80:ILE:O	4:M:84:LYS:CB	1.97	1.10
4:O:202:ILE:HG21	4:O:282:ILE:HD11	1.30	1.10
5:J:147:THR:O	5:J:150:MET:HG2	1.49	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:303:LEU:HD22	3:L:339:ASN:HA	1.19	1.10
9:P:449:GLU:OE2	14:U:223:ASN:ND2	1.84	1.10
7:1:401:LYS:HG2	7:1:438:GLN:CG	1.80	1.10
6:K:276:ASP:HB3	6:K:282:ASP:OD2	1.51	1.10
14:U:70:LEU:HD11	14:U:111:LEU:HD22	1.20	1.10
18:Z:322:SER:O	18:Z:332:ALA:CB	1.98	1.10
10:4:332:GLU:OE1	10:4:364:LYS:HD3	1.49	1.10
6:K:82:ILE:HG21	6:K:116:LEU:HD11	1.20	1.10
12:S:448:GLU:C	12:S:461:LYS:CG	2.19	1.10
1:I:136:LEU:HA	2:H:87:LEU:HD21	1.33	1.10
18:Z:164:GLY:HA2	18:Z:167:ALA:HB3	1.26	1.10
1:I:387:LYS:HB3	1:I:390:LEU:HD23	1.17	1.10
1:I:424:GLU:HG2	1:I:428:TYR:CE2	1.86	1.10
5:J:187:LEU:HD12	5:J:293:MET:O	1.50	1.10
7:N:402:PHE:HB2	7:N:437:TYR:HB3	1.33	1.10
13:T:330:ILE:HG23	13:T:334:GLU:CD	1.73	1.10
9:3:449:GLU:OE2	14:8:223:ASN:ND2	1.84	1.09
2:H:161:VAL:HG21	2:H:259:GLU:CB	1.82	1.09
3:L:143:ARG:CG	3:L:147:GLU:OE2	2.00	1.09
4:0:202:ILE:CD1	4:0:329:ILE:HD11	1.81	1.09
4:0:373:MET:HE3	4:0:415:LEU:HD11	1.30	1.09
18:AC:792:ALA:CB	18:AC:824:ALA:HB2	1.82	1.09
5:J:114:VAL:HG12	5:J:126:ILE:HA	1.32	1.09
8:2:248:PHE:CE1	8:2:272:ILE:HG13	1.86	1.09
10:4:155:ARG:HA	10:4:158:LYS:HG2	1.26	1.09
5:J:137:LEU:HD22	5:J:224:ILE:HD13	1.29	1.09
3:L:195:PHE:CD1	3:L:229:ILE:CB	2.33	1.09
6:K:128:ALA:CB	6:K:142:VAL:HG13	1.82	1.09
3:L:205:ASP:HB2	3:L:210:GLU:HG2	1.32	1.09
7:1:419:ALA:HB1	7:1:449:ILE:HD12	1.26	1.09
1:I:102:LEU:HD13	2:H:87:LEU:HD13	1.25	1.09
1:I:234:LEU:CD1	33:I:501:ADP:N3	2.16	1.09
7:N:35:TRP:CH2	12:S:273:LYS:CD	2.35	1.09
10:Q:190:LEU:HD23	10:Q:217:ILE:HD12	1.29	1.09
11:5:133:ALA:HB3	11:5:136:HIS:CD2	1.86	1.09
6:K:225:ALA:CB	6:K:259:PRO:O	1.99	1.09
3:L:172:LEU:HD22	3:L:301:ILE:HD11	1.35	1.09
9:P:209:ILE:HG21	9:P:226:TYR:CE1	1.87	1.09
9:P:444:HIS:CE1	14:U:138:TYR:OH	2.06	1.09
11:R:133:ALA:HB3	11:R:136:HIS:CD2	1.86	1.09
7:1:402:PHE:HB2	7:1:437:TYR:HB3	1.33	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:4:212:MET:HG3	10:4:235:ALA:CB	1.82	1.09
11:5:50:MET:CE	11:5:53:TYR:CE2	2.36	1.09
16:AA:55:ALA:CA	16:AA:83:LYS:O	1.99	1.09
1:I:102:LEU:CD1	2:H:87:LEU:HD13	1.81	1.09
5:J:335:LYS:HA	11:R:173:ASP:HB3	1.13	1.09
4:0:142:ALA:HA	4:0:145:LEU:HD12	1.35	1.09
8:2:132:LYS:HB2	8:2:162:TYR:CZ	1.88	1.09
1:I:171:VAL:O	1:I:175:LYS:HB2	1.47	1.09
4:M:312:GLU:O	4:M:316:GLN:HG2	1.53	1.09
7:N:423:MET:HE1	7:N:445:ALA:HB1	1.33	1.09
16:W:52:ILE:O	16:W:52:ILE:HG13	1.47	1.09
4:0:83:ASN:OD1	4:0:161:LEU:HD22	1.53	1.09
12:6:477:HIS:O	13:7:342:TYR:OH	1.70	1.09
13:7:330:ILE:HG23	13:7:334:GLU:CD	1.73	1.09
1:I:103:ARG:HG2	1:I:160:ILE:HG21	1.10	1.09
6:K:343:LEU:O	6:K:347:THR:HG23	1.51	1.09
4:M:376:SER:HB2	4:M:377:PRO:HD2	1.35	1.09
12:S:477:HIS:O	13:T:342:TYR:OH	1.70	1.09
11:5:241:ILE:CD1	11:5:260:LEU:HD11	1.83	1.09
12:6:169:LEU:HD11	12:6:206:VAL:HG23	1.25	1.09
18:AC:164:GLY:HA2	18:AC:167:ALA:HB3	1.26	1.09
2:H:299:MET:CE	2:H:328:ASP:OD2	2.01	1.09
1:I:386:ALA:HB1	1:I:423:LYS:HE3	1.34	1.09
7:N:35:TRP:CH2	12:S:273:LYS:HE2	1.88	1.09
7:1:35:TRP:CH2	12:6:273:LYS:CD	2.35	1.08
5:J:235:PHE:CE1	5:J:276:LEU:CD2	2.35	1.08
9:P:149:LEU:HD11	9:P:165:ILE:CD1	1.83	1.08
7:N:470:ASN:H	7:N:474:ARG:CB	1.66	1.08
7:1:406:ALA:HA	7:1:445:ALA:HB2	1.10	1.08
7:1:22:PHE:HB3	13:7:121:LEU:HD21	1.09	1.08
7:1:7:GLY:HA2	13:7:170:GLN:HG2	1.31	1.08
20:C:198:PHE:CZ	20:C:206:ASN:HB3	1.87	1.08
1:I:313:LEU:HG	1:I:346:ARG:NH1	1.67	1.08
9:P:388:GLU:O	9:P:392:PHE:CD2	2.05	1.08
16:W:55:ALA:CA	16:W:83:LYS:O	1.99	1.08
7:1:35:TRP:CH2	12:6:273:LYS:HE2	1.88	1.08
13:7:116:LEU:O	13:7:120:LYS:HB2	1.50	1.08
1:I:107:MET:HE3	1:I:160:ILE:HD12	1.28	1.08
6:K:210:CYS:SG	6:K:335:LEU:HD23	1.93	1.08
8:2:73:PRO:HB3	8:2:110:ALA:HB2	1.26	1.08
18:AC:667:GLY:C	18:AC:671:ALA:HB3	1.73	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:355:PHE:CE1	2:H:385:ILE:HG23	1.86	1.08
5:J:143:VAL:CG1	5:J:213:ARG:HD3	1.82	1.08
3:L:258:MET:HA	3:L:261:LEU:HD12	1.17	1.08
4:O:80:ILE:CG2	4:O:84:LYS:HG3	1.84	1.08
9:3:209:ILE:HG21	9:3:226:TYR:OH	1.51	1.08
12:S:476:PHE:O	12:S:480:ILE:HD12	1.52	1.08
23:F:20:ARG:HB3	4:O:435:LEU:HD11	1.35	1.08
7:1:791:LEU:O	7:1:792:ASN:HB2	1.46	1.08
10:4:48:GLN:O	10:4:52:GLU:N	1.86	1.08
7:N:419:ALA:HB1	7:N:449:ILE:HD12	1.26	1.08
10:Q:297:ARG:HB3	10:Q:333:GLN:HB3	1.14	1.08
9:3:149:LEU:HD11	9:3:165:ILE:CD1	1.83	1.08
6:K:128:ALA:HB1	6:K:142:VAL:HG13	1.34	1.08
6:K:226:ALA:HB1	6:K:257:ASN:ND2	1.68	1.08
4:O:217:ILE:HG13	4:O:218:GLN:N	1.69	1.08
4:O:312:GLU:O	4:O:316:GLN:HG2	1.53	1.08
7:1:470:ASN:H	7:1:474:ARG:CB	1.66	1.08
7:N:470:ASN:H	7:N:474:ARG:HB2	1.14	1.08
23:F:18:GLU:OE2	4:O:431:LYS:HD2	1.51	1.08
18:AC:667:GLY:HA2	18:AC:671:ALA:HB2	1.28	1.08
1:I:287:ILE:HD12	1:I:331:THR:HG23	1.13	1.08
6:K:226:ALA:HB1	6:K:257:ASN:HD22	1.13	1.08
3:L:258:MET:HA	3:L:261:LEU:CD1	1.83	1.08
4:M:142:ALA:HA	4:M:145:LEU:HD12	1.35	1.08
9:P:46:THR:O	9:P:50:LEU:HD22	1.53	1.08
11:R:241:ILE:HD13	11:R:260:LEU:HD11	1.15	1.08
9:3:444:HIS:CE1	14:8:138:TYR:CZ	2.41	1.07
9:3:444:HIS:CE1	14:8:138:TYR:OH	2.06	1.07
2:H:111:TYR:CE1	2:H:125:LEU:HD22	1.71	1.07
1:I:200:SER:CA	1:I:219:PRO:HG3	1.83	1.07
3:L:145:LEU:CG	3:L:149:ILE:CD1	2.30	1.07
4:M:80:ILE:CG2	4:M:84:LYS:HG3	1.84	1.07
10:Q:212:MET:HG3	10:Q:235:ALA:CB	1.82	1.07
7:N:22:PHE:HB3	13:T:121:LEU:HD21	1.09	1.07
9:3:344:THR:HA	9:3:348:GLU:CB	1.84	1.07
14:8:70:LEU:HD21	14:8:111:LEU:HD22	1.15	1.07
14:8:70:LEU:HD21	14:8:111:LEU:HD23	1.37	1.07
4:M:288:LEU:HD21	4:M:342:LEU:HD13	1.21	1.07
9:P:344:THR:HA	9:P:348:GLU:CB	1.84	1.07
9:P:396:LEU:HD22	9:P:401:THR:CB	1.84	1.07
18:Z:322:SER:O	18:Z:332:ALA:HB1	1.53	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:Z:667:GLY:HA2	18:Z:671:ALA:HB2	1.28	1.07
18:Z:667:GLY:C	18:Z:671:ALA:HB3	1.73	1.07
9:3:209:ILE:HG21	9:3:226:TYR:CE1	1.87	1.07
8:2:35:HIS:HB2	16:AA:14:GLU:HG3	1.37	1.07
2:H:112:ILE:HG12	2:H:122:VAL:HG22	1.34	1.07
1:I:401:GLU:HG2	1:I:422:SER:HA	1.29	1.07
6:K:149:SER:O	6:K:230:VAL:CG2	2.03	1.07
9:P:444:HIS:CE1	14:U:138:TYR:CZ	2.41	1.07
9:3:209:ILE:CG2	9:3:226:TYR:OH	2.02	1.07
11:5:250:LEU:HD22	11:5:257:ARG:HB3	1.08	1.07
1:I:144:LEU:HD11	1:I:162:VAL:CG2	1.84	1.07
4:0:87:PRO:CB	4:0:155:LYS:HE2	1.85	1.07
8:2:332:HIS:O	8:2:332:HIS:CG	2.06	1.07
11:R:241:ILE:CD1	11:R:260:LEU:HD11	1.83	1.07
14:U:94:TRP:CZ2	14:U:109:ASN:OD1	2.08	1.07
15:V:229:LEU:HD13	15:V:305:ASP:OD1	1.54	1.07
4:0:376:SER:HB2	4:0:377:PRO:HD2	1.35	1.07
15:9:229:LEU:HD13	15:9:305:ASP:OD1	1.54	1.07
7:N:791:LEU:O	7:N:792:ASN:HB2	1.46	1.07
10:Q:258:LYS:HE2	10:Q:266:ASP:CB	1.84	1.07
11:5:50:MET:HE3	11:5:53:TYR:CE2	1.89	1.07
2:H:223:THR:O	2:H:227:ARG:HG3	1.53	1.07
1:I:313:LEU:CD1	1:I:340:ALA:CB	2.32	1.07
7:N:406:ALA:HA	7:N:445:ALA:HB2	1.08	1.07
9:P:209:ILE:HG21	9:P:226:TYR:OH	1.51	1.07
10:Q:339:ILE:HB	10:Q:387:ILE:HD11	1.09	1.07
10:4:336:ILE:O	10:4:340:GLU:HG3	1.54	1.07
14:8:94:TRP:CZ2	14:8:109:ASN:OD1	2.08	1.07
6:K:207:PRO:HG2	6:K:335:LEU:HD23	1.27	1.07
4:0:226:TYR:HB2	4:0:335:VAL:HG23	1.37	1.06
10:4:256:LEU:HD21	10:4:319:ILE:HG23	1.35	1.06
10:4:256:LEU:HD22	10:4:319:ILE:HD12	1.35	1.06
4:M:80:ILE:CG2	4:M:84:LYS:CD	2.33	1.06
8:O:132:LYS:HB2	8:O:162:TYR:CZ	1.88	1.06
9:3:396:LEU:HD22	9:3:401:THR:CB	1.84	1.06
12:6:448:GLU:O	12:6:461:LYS:HB2	1.51	1.06
2:H:254:ALA:O	2:H:258:ARG:HG2	1.54	1.06
3:L:363:VAL:HG23	3:L:364:GLN:H	1.17	1.06
18:Z:792:ALA:CB	18:Z:824:ALA:HB2	1.82	1.06
1:I:234:LEU:HD11	33:I:501:ADP:C4	1.89	1.06
6:K:309:MET:SD	6:K:327:LEU:HD11	1.93	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:358:ASP:O	3:L:359:HIS:ND1	1.89	1.06
4:O:80:ILE:CG2	4:O:84:LYS:CD	2.33	1.06
5:J:114:VAL:HG12	5:J:126:ILE:CA	1.84	1.06
12:S:348:PHE:CE2	12:S:361:PHE:HA	1.89	1.06
11:5:142:PHE:CZ	11:5:180:LEU:HD23	1.91	1.06
5:J:151:ILE:HD11	5:J:198:LEU:CG	1.85	1.06
12:6:348:PHE:CE2	12:6:361:PHE:HA	1.89	1.06
6:K:378:ILE:HG13	6:K:406:VAL:HG21	1.34	1.06
8:O:371:ALA:HB2	13:T:340:ILE:HG23	1.37	1.06
4:O:202:ILE:HD11	4:O:329:ILE:HD11	1.36	1.06
4:O:228:PRO:HG2	4:O:356:MET:HG3	1.10	1.06
11:5:185:GLY:C	11:5:201:PHE:CE2	2.28	1.06
1:I:283:PHE:CD1	1:I:328:ILE:CG2	2.38	1.06
4:M:202:ILE:HD11	4:M:329:ILE:HD11	1.36	1.06
9:P:209:ILE:CG2	9:P:226:TYR:OH	2.02	1.06
10:Q:155:ARG:HA	10:Q:158:LYS:HG2	1.26	1.06
1:I:313:LEU:HG	1:I:346:ARG:HH11	0.91	1.06
6:K:275:PHE:CZ	6:K:289:LEU:HD12	1.91	1.06
4:M:83:ASN:HA	4:M:161:LEU:HD13	1.37	1.06
9:P:149:LEU:HD11	9:P:165:ILE:HD13	1.07	1.06
10:Q:256:LEU:HD22	10:Q:319:ILE:HD12	1.35	1.06
10:4:258:LYS:HE2	10:4:266:ASP:CB	1.84	1.06
12:6:472:PRO:HB2	12:6:476:PHE:HE2	1.09	1.06
1:I:365:PHE:CZ	1:I:383:LEU:HD13	1.91	1.06
5:J:137:LEU:HD11	5:J:220:VAL:CG1	1.75	1.06
13:T:250:ASN:O	13:T:253:ALA:CB	2.04	1.06
13:7:250:ASN:O	13:7:253:ALA:CB	2.04	1.05
5:J:162:LYS:CG	5:J:166:GLU:OE1	2.04	1.05
4:M:83:ASN:OD1	4:M:161:LEU:HD22	1.53	1.05
6:K:93:LEU:CD1	6:K:94:GLU:CG	2.35	1.05
4:M:399:VAL:HG22	4:M:427:VAL:HB	1.37	1.05
11:R:185:GLY:C	11:R:201:PHE:CE2	2.28	1.05
4:M:198:LEU:HD11	4:M:240:CYS:SG	1.96	1.05
8:2:38:THR:O	8:2:42:LEU:CG	2.05	1.05
1:I:200:SER:O	1:I:219:PRO:CG	2.03	1.05
7:N:35:TRP:CZ3	12:S:273:LYS:HD2	1.90	1.05
10:Q:276:ALA:O	10:Q:278:ARG:N	1.90	1.05
10:Q:336:ILE:O	10:Q:340:GLU:HG3	1.54	1.05
13:T:330:ILE:CG2	13:T:334:GLU:CD	2.25	1.05
10:Q:19:ASP:CB	10:Q:55:SER:CB	2.35	1.05
18:AC:322:SER:O	18:AC:332:ALA:HB1	1.56	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:Q:84:LYS:HE3	10:Q:88:LEU:HD21	1.39	1.05
11:R:142:PHE:CZ	11:R:180:LEU:HD23	1.91	1.05
9:3:317:TRP:CZ2	9:3:351:TRP:CZ3	2.45	1.05
6:K:207:PRO:CB	6:K:335:LEU:CD2	2.19	1.05
3:L:264:MET:SD	3:L:275:MET:CE	2.45	1.05
8:O:38:THR:O	8:O:42:LEU:CG	2.05	1.05
4:O:198:LEU:HD11	4:O:240:CYS:SG	1.96	1.05
18:AC:322:SER:O	18:AC:332:ALA:CB	2.05	1.05
6:K:213:THR:HB	33:K:501:ADP:O2A	1.56	1.05
10:Q:256:LEU:HD21	10:Q:319:ILE:HG23	1.35	1.05
4:O:83:ASN:HA	4:O:161:LEU:HD13	1.37	1.05
11:5:229:ILE:HD11	11:5:295:TYR:OH	1.55	1.05
2:H:190:VAL:CG1	2:H:212:VAL:CG2	2.34	1.05
10:Q:253:TYR:CE1	10:Q:319:ILE:HD11	1.91	1.05
13:T:95:TYR:O	13:T:99:LYS:HB2	1.57	1.05
7:1:35:TRP:CZ3	12:6:273:LYS:HD2	1.90	1.04
1:I:223:ILE:HG13	1:I:347:ILE:HG21	1.08	1.04
4:M:226:TYR:CB	4:M:335:VAL:HG21	1.86	1.04
13:7:95:TYR:O	13:7:99:LYS:HB2	1.57	1.04
1:I:227:PRO:HD2	1:I:355:LEU:HD21	1.39	1.04
9:P:317:TRP:CZ2	9:P:351:TRP:CZ3	2.45	1.04
18:Z:792:ALA:HB2	18:Z:824:ALA:CB	1.86	1.04
12:6:476:PHE:O	12:6:480:ILE:HD12	1.52	1.04
19:B:96:TYR:CZ	19:B:100:ASN:OD1	2.09	1.04
2:H:247:GLN:N	2:H:247:GLN:HE21	1.55	1.04
6:K:226:ALA:CB	6:K:257:ASN:ND2	2.17	1.04
3:L:148:VAL:CG2	3:L:167:PRO:CG	2.35	1.04
2:H:284:ARG:CA	2:H:296:GLN:OE1	2.04	1.04
4:M:142:ALA:O	4:M:145:LEU:N	1.89	1.04
18:AC:309:GLU:O	18:AC:313:GLU:N	1.91	1.04
6:K:160:PRO:HG2	6:K:220:ALA:CB	1.88	1.04
3:L:305:ASN:N	3:L:308:ALA:HB3	1.71	1.04
4:M:249:LEU:CG	4:M:283:ILE:HG12	1.87	1.04
11:R:229:ILE:CG1	11:R:295:TYR:CE1	2.39	1.04
11:5:25:LEU:O	11:5:28:LEU:CG	2.06	1.04
6:K:115:ILE:HD12	6:K:121:ARG:NH1	1.66	1.04
4:M:87:PRO:CB	4:M:155:LYS:HE2	1.85	1.04
4:M:217:ILE:HG13	4:M:218:GLN:N	1.69	1.04
10:4:397:TYR:HD2	11:5:365:GLN:CD	1.60	1.04
1:I:187:ILE:HD12	1:I:190:LEU:HD12	1.34	1.04
5:J:137:LEU:HD13	5:J:224:ILE:HD11	1.07	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:7:330:ILE:CG2	13:7:334:GLU:CD	2.25	1.04
15:9:248:MET:HE2	15:9:284:LEU:HD23	1.39	1.04
4:M:228:PRO:HG2	4:M:356:MET:HG3	1.10	1.04
4:M:231:THR:O	33:M:501:ADP:C8	2.10	1.04
11:R:186:LEU:CA	11:R:201:PHE:HZ	1.70	1.04
10:4:253:TYR:CE1	10:4:319:ILE:HD11	1.91	1.04
2:H:220:THR:CG2	2:H:343:PHE:HB3	1.88	1.04
1:I:230:THR:CG2	1:I:353:PHE:C	2.21	1.04
9:P:71:VAL:O	9:P:74:CYS:SG	2.16	1.04
4:0:249:LEU:CG	4:0:283:ILE:HG12	1.87	1.04
10:4:339:ILE:HB	10:4:387:ILE:CD1	1.86	1.04
11:5:27:SER:O	11:5:28:LEU:O	1.76	1.04
1:I:288:ASP:HB3	1:I:331:THR:CG2	1.88	1.04
1:I:230:THR:HG21	1:I:353:PHE:CA	1.86	1.04
11:R:250:LEU:HD22	11:R:257:ARG:HB3	1.08	1.04
10:4:157:LEU:HB2	10:4:166:LEU:HD12	1.38	1.03
10:4:339:ILE:HB	10:4:387:ILE:HD11	1.09	1.03
1:I:170:LEU:HD13	1:I:269:GLU:HB3	1.32	1.03
5:J:189:TYR:CZ	5:J:316:GLU:CB	2.39	1.03
5:J:160:GLU:CB	5:J:315:ILE:HD11	1.88	1.03
6:K:267:ILE:HD13	6:K:309:MET:HB3	1.34	1.03
8:O:332:HIS:O	8:O:332:HIS:CG	2.06	1.03
10:Q:190:LEU:CD2	10:Q:217:ILE:HD12	1.87	1.03
10:Q:411:VAL:HG13	10:Q:415:TYR:CE2	1.93	1.03
10:4:258:LYS:CE	10:4:266:ASP:CB	2.36	1.03
11:5:186:LEU:CA	11:5:201:PHE:HZ	1.70	1.03
1:I:313:LEU:HD12	1:I:340:ALA:CB	1.86	1.03
1:I:409:GLU:OE1	1:I:411:ARG:NH2	1.91	1.03
3:L:49:ALA:O	3:L:52:SER:OG	1.74	1.03
3:L:69:PHE:CZ	3:L:83:CYS:SG	2.51	1.03
4:M:136:VAL:O	4:M:138:GLY:N	1.91	1.03
10:Q:412:ASP:O	10:Q:416:ASN:OD1	1.76	1.03
11:R:140:ILE:O	11:R:143:TYR:CG	2.11	1.03
4:0:136:VAL:O	4:0:138:GLY:N	1.91	1.03
5:J:63:LEU:HD12	6:K:79:VAL:HG21	1.40	1.03
18:AC:792:ALA:HB2	18:AC:824:ALA:CB	1.86	1.03
1:I:227:PRO:CD	1:I:355:LEU:HD21	1.89	1.03
10:Q:157:LEU:HB2	10:Q:166:LEU:HD12	1.38	1.03
4:0:226:TYR:CB	4:0:335:VAL:HG21	1.86	1.03
10:4:190:LEU:CD2	10:4:217:ILE:HD12	1.87	1.03
10:4:276:ALA:O	10:4:278:ARG:N	1.90	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:4:412:ASP:O	10:4:416:ASN:OD1	1.76	1.03
1:I:136:LEU:HD23	2:H:87:LEU:CD2	1.88	1.03
1:I:283:PHE:CE1	1:I:328:ILE:CG2	2.40	1.03
5:J:151:ILE:HG12	5:J:198:LEU:HD22	1.40	1.03
6:K:80:LYS:HB2	15:V:151:VAL:HG21	1.40	1.03
12:S:448:GLU:O	12:S:461:LYS:HB2	1.51	1.03
4:0:142:ALA:O	4:0:145:LEU:N	1.89	1.03
18:AC:164:GLY:HA2	18:AC:167:ALA:CB	1.89	1.03
6:K:210:CYS:SG	6:K:335:LEU:CD2	2.46	1.03
11:R:225:TYR:OH	11:R:278:VAL:HG13	1.59	1.03
4:0:294:LYS:CA	4:0:339:ASP:OD1	2.07	1.03
9:3:71:VAL:O	9:3:74:CYS:SG	2.16	1.03
1:I:424:GLU:CA	1:I:428:TYR:HD2	1.70	1.03
10:Q:258:LYS:CE	10:Q:266:ASP:CB	2.36	1.03
10:Q:339:ILE:HB	10:Q:387:ILE:CD1	1.86	1.03
18:Z:309:GLU:O	18:Z:313:GLU:N	1.91	1.03
4:0:272:PHE:CD2	4:0:316:GLN:HB3	1.93	1.03
8:2:371:ALA:HB2	13:7:340:ILE:HG23	1.37	1.03
11:5:140:ILE:O	11:5:143:TYR:CG	2.11	1.03
2:H:218:PRO:HD3	2:H:429:TYR:HD2	1.15	1.03
9:3:46:THR:O	9:3:50:LEU:HD22	1.53	1.03
6:K:190:LEU:HD22	6:K:194:ILE:HD11	1.04	1.03
14:U:70:LEU:HD13	14:U:111:LEU:HD21	1.37	1.03
1:I:115:ILE:HA	1:I:121:ALA:CB	1.88	1.03
6:K:90:GLY:O	6:K:130:VAL:N	1.90	1.03
3:L:143:ARG:HG2	3:L:147:GLU:OE2	1.57	1.03
10:Q:397:TYR:HD2	11:R:365:GLN:CD	1.60	1.03
4:0:399:VAL:HG22	4:0:427:VAL:HB	1.37	1.02
9:3:149:LEU:HD11	9:3:165:ILE:HD13	1.07	1.02
15:9:30:GLN:HG2	15:9:204:THR:OG1	1.59	1.02
1:I:144:LEU:CD1	1:I:162:VAL:CG2	2.37	1.02
1:I:402:ALA:HB1	1:I:414:VAL:HG11	1.35	1.02
5:J:86:LEU:HD23	5:J:96:VAL:HG22	1.13	1.02
8:O:225:LEU:CG	8:O:230:ARG:CG	2.37	1.02
6:K:163:MET:HG2	6:K:221:HIS:HE1	1.18	1.02
18:Z:318:THR:O	18:Z:322:SER:N	1.92	1.02
7:1:22:PHE:CB	13:7:121:LEU:HD21	1.89	1.02
9:3:279:PHE:CE2	9:3:364:ARG:HD2	1.94	1.02
2:H:246:VAL:C	2:H:247:GLN:HE21	1.63	1.02
5:J:116:LEU:CD2	5:J:121:TYR:CD1	2.42	1.02
6:K:93:LEU:HD23	6:K:102:ILE:HG22	1.39	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:2:284:ARG:NH1	8:2:291:LEU:CD2	2.23	1.02
1:I:401:GLU:HB3	1:I:422:SER:HB2	1.40	1.02
11:R:25:LEU:O	11:R:28:LEU:CG	2.06	1.02
11:5:225:TYR:OH	11:5:278:VAL:HG13	1.59	1.02
11:5:360:ASP:OD2	12:6:466:ILE:HG21	1.58	1.02
4:M:226:TYR:HB2	4:M:335:VAL:HG23	1.37	1.02
4:M:294:LYS:CA	4:M:339:ASP:OD1	2.07	1.02
1:I:144:LEU:HG	1:I:162:VAL:CG2	1.89	1.02
6:K:354:LEU:HA	6:K:393:ILE:HG23	1.03	1.02
8:O:35:HIS:HB2	16:W:14:GLU:HG3	1.37	1.02
11:R:250:LEU:HD22	11:R:257:ARG:CB	1.88	1.02
18:Z:271:MET:O	18:Z:273:ASN:N	1.92	1.02
18:Z:667:GLY:CA	18:Z:671:ALA:CB	2.10	1.02
10:4:297:ARG:CB	10:4:333:GLN:HB3	1.89	1.02
10:4:19:ASP:CB	10:4:55:SER:CB	2.38	1.02
14:8:79:TYR:CE2	14:8:91:ILE:HG13	1.87	1.02
18:AC:318:THR:O	18:AC:322:SER:N	1.92	1.02
1:I:365:PHE:CZ	1:I:383:LEU:CD1	2.43	1.02
5:J:189:TYR:OH	5:J:316:GLU:CG	2.05	1.02
4:M:272:PHE:CD2	4:M:316:GLN:HB3	1.93	1.02
4:M:80:ILE:HG23	4:M:84:LYS:HG3	1.03	1.02
4:0:137:ILE:HG22	4:0:140:VAL:HG23	1.38	1.02
8:2:225:LEU:CG	8:2:230:ARG:CG	2.37	1.02
10:4:411:VAL:HG13	10:4:415:TYR:CE2	1.93	1.02
11:5:250:LEU:HD22	11:5:257:ARG:CB	1.88	1.02
18:AC:667:GLY:CA	18:AC:671:ALA:CB	2.10	1.02
1:I:144:LEU:CG	1:I:162:VAL:CG2	2.37	1.02
8:O:284:ARG:NH1	8:O:291:LEU:CD2	2.23	1.02
9:P:344:THR:HA	9:P:348:GLU:HB2	1.42	1.02
11:R:27:SER:O	11:R:28:LEU:O	1.76	1.02
15:V:248:MET:HE2	15:V:284:LEU:HD23	1.41	1.02
10:4:302:PHE:CG	10:4:330:LEU:CD1	2.43	1.02
2:H:180:CYS:SG	2:H:183:GLN:CG	2.47	1.02
1:I:287:ILE:CD1	1:I:331:THR:OG1	2.07	1.02
9:P:279:PHE:CE2	9:P:364:ARG:HD2	1.94	1.02
10:Q:297:ARG:HB3	10:Q:333:GLN:CB	1.89	1.02
4:0:314:LEU:CD2	4:0:342:LEU:HD23	1.90	1.01
2:H:218:PRO:HD3	2:H:429:TYR:CD2	1.95	1.01
1:I:187:ILE:CD1	1:I:194:ILE:CD1	2.37	1.01
5:J:31:LEU:HA	5:J:34:ILE:HD12	1.38	1.01
4:M:422:GLU:HA	4:M:425:LEU:HB2	1.42	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:N:22:PHE:CB	13:T:121:LEU:HD21	1.89	1.01
10:Q:302:PHE:CG	10:Q:330:LEU:CD1	2.43	1.01
4:0:137:ILE:HD13	4:0:145:LEU:HD13	1.40	1.01
4:0:231:THR:O	33:0:501:ADP:C8	2.10	1.01
1:I:206:THR:O	1:I:208:PRO:HD2	1.59	1.01
1:I:189:GLY:HA3	1:I:360:THR:HB	1.39	1.01
14:U:43:TRP:HA	14:U:48:LEU:HD23	1.42	1.01
11:5:229:ILE:CD1	11:5:295:TYR:CZ	2.41	1.01
5:J:335:LYS:HA	11:R:173:ASP:CB	1.90	1.01
18:Z:164:GLY:HA2	18:Z:167:ALA:CB	1.89	1.01
18:AC:271:MET:O	18:AC:273:ASN:N	1.92	1.01
1:I:102:LEU:CD1	2:H:87:LEU:CD1	2.38	1.01
6:K:116:LEU:O	6:K:119:ILE:CD1	2.07	1.01
3:L:344:ARG:NE	33:L:401:ADP:O2'	1.91	1.01
11:R:363:ASN:ND2	12:S:466:ILE:HG23	1.75	1.01
15:V:30:GLN:HG2	15:V:204:THR:OG1	1.59	1.01
9:3:304:ASP:CG	9:3:324:TYR:OH	1.99	1.01
9:3:67:LEU:HD13	9:3:106:GLN:CB	1.91	1.01
13:7:116:LEU:HD21	13:7:147:ILE:HG21	1.40	1.01
14:8:79:TYR:HE1	14:8:83:LYS:HE2	1.26	1.01
4:M:314:LEU:CD2	4:M:342:LEU:HD23	1.90	1.01
16:W:54:LEU:C	16:W:85:THR:OG1	1.98	1.01
10:4:411:VAL:HG13	10:4:415:TYR:HE2	1.24	1.01
1:I:287:ILE:HD13	1:I:331:THR:CG2	1.87	1.01
6:K:170:MET:O	6:K:174:LYS:CB	2.06	1.01
10:4:253:TYR:CD1	10:4:319:ILE:CD1	2.43	1.01
16:AA:54:LEU:C	16:AA:85:THR:OG1	1.98	1.01
2:H:190:VAL:HG21	2:H:212:VAL:HG21	1.02	1.01
5:J:207:THR:HG23	5:J:209:CYS:SG	1.99	1.01
6:K:164:TYR:HD1	6:K:222:HIS:HD2	1.08	1.01
4:M:96:LEU:HD11	4:M:145:LEU:HB2	1.41	1.01
10:Q:396:THR:OG1	15:V:242:GLU:CG	2.08	1.01
8:O:35:HIS:CB	16:W:14:GLU:CG	2.39	1.01
4:0:342:LEU:O	4:0:348:LEU:CD1	2.08	1.01
9:3:149:LEU:CD1	9:3:165:ILE:HD13	1.91	1.01
15:9:265:MET:HG3	15:9:269:GLN:OE1	1.61	1.01
1:I:339:PRO:HB3	2:H:425:ALA:HB2	1.05	1.01
3:L:171:LEU:HD12	3:L:277:MET:O	1.61	1.01
4:M:137:ILE:HG22	4:M:140:VAL:HG23	1.38	1.01
12:6:330:LYS:HG2	12:6:360:TYR:HE2	1.26	1.01
14:8:22:HIS:NE2	14:8:35:VAL:CG1	2.22	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:8:94:TRP:CE3	14:8:121:LEU:CD1	2.42	1.01
1:I:257:GLN:HE22	1:I:266:LEU:HG	1.22	1.01
3:L:176:PRO:O	4:M:344:ARG:HD3	1.60	1.01
4:M:137:ILE:HD13	4:M:145:LEU:HD13	1.40	1.01
4:M:374:ASN:C	4:M:414:GLU:HB2	1.82	1.01
7:N:576:PRO:CG	7:N:611:ASN:HD22	1.74	1.01
9:P:304:ASP:CG	9:P:324:TYR:OH	1.99	1.01
4:0:177:VAL:HG21	4:0:248:PHE:HD2	1.17	1.01
18:AC:412:ALA:HA	18:AC:447:ALA:HB2	1.43	1.01
5:J:85:VAL:HG22	5:J:99:VAL:HG12	1.39	1.01
6:K:244:PRO:HA	6:K:291:GLU:HG3	1.38	1.01
14:U:22:HIS:CD2	14:U:35:VAL:HG12	1.95	1.01
10:4:396:THR:OG1	15:9:242:GLU:CG	2.08	1.00
1:I:200:SER:HB2	1:I:219:PRO:CG	1.91	1.00
1:I:313:LEU:HD12	1:I:340:ALA:HB1	1.34	1.00
15:V:53:VAL:HG12	15:V:77:GLN:NE2	1.74	1.00
4:0:96:LEU:HD11	4:0:145:LEU:HB2	1.41	1.00
11:5:228:MET:HE3	11:5:263:LEU:HD22	1.40	1.00
14:8:22:HIS:CD2	14:8:35:VAL:HG12	1.95	1.00
2:H:245:LEU:CD1	2:H:280:ILE:CD1	2.33	1.00
1:I:349:ARG:NH2	2:H:394:MET:HG3	1.75	1.00
5:J:41:ASN:O	5:J:44:ARG:CB	2.09	1.00
9:P:46:THR:O	9:P:50:LEU:HD23	1.61	1.00
13:T:116:LEU:HD21	13:T:147:ILE:HG21	1.40	1.00
7:1:161:ASP:O	7:1:164:GLU:HB2	1.61	1.00
10:4:96:PHE:CE1	10:4:106:GLU:OE2	2.14	1.00
2:H:161:VAL:HG13	2:H:260:LEU:HD12	1.41	1.00
6:K:163:MET:CG	6:K:221:HIS:CE1	2.44	1.00
3:L:145:LEU:CG	3:L:149:ILE:HD12	1.89	1.00
4:M:177:VAL:HG21	4:M:248:PHE:HD2	1.17	1.00
12:S:169:LEU:HD11	12:S:206:VAL:CG2	1.92	1.00
4:0:80:ILE:HG23	4:0:84:LYS:HG3	1.03	1.00
12:6:169:LEU:HD11	12:6:206:VAL:CG2	1.92	1.00
1:I:144:LEU:HD11	1:I:162:VAL:HG22	1.40	1.00
1:I:230:THR:HG23	1:I:353:PHE:O	1.60	1.00
5:J:160:GLU:HB2	5:J:315:ILE:HD13	1.41	1.00
6:K:86:PRO:O	6:K:134:LYS:CE	2.08	1.00
6:K:149:SER:HB2	6:K:250:VAL:HG22	1.42	1.00
10:Q:96:PHE:CE1	10:Q:106:GLU:OE2	2.14	1.00
10:Q:253:TYR:CD1	10:Q:319:ILE:CD1	2.43	1.00
10:Q:273:GLY:O	10:Q:277:LEU:HB2	1.60	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AC:272:LEU:O	18:AC:274:ASP:N	1.95	1.00
5:J:338:LEU:HD21	5:J:383:PHE:CE2	1.95	1.00
6:K:154:LEU:O	6:K:155:THR:HG23	1.59	1.00
6:K:335:LEU:O	6:K:336:PRO:O	1.78	1.00
11:5:259:TYR:CD1	11:5:260:LEU:N	2.30	1.00
15:9:64:ASP:HA	15:9:139:ARG:NH1	1.75	1.00
15:9:53:VAL:HG12	15:9:77:GLN:NE2	1.74	1.00
2:H:258:ARG:O	2:H:262:GLU:N	1.93	1.00
5:J:116:LEU:HD21	5:J:121:TYR:CD1	1.95	1.00
7:N:161:ASP:O	7:N:164:GLU:HB2	1.61	1.00
9:3:146:THR:HG21	9:3:169:LEU:HD13	1.42	1.00
18:AC:698:SER:HA	18:AC:702:PRO:CB	1.92	1.00
6:K:128:ALA:HB1	6:K:142:VAL:CG1	1.92	1.00
3:L:342:ASP:O	3:L:346:VAL:HG23	1.61	1.00
9:P:149:LEU:CD1	9:P:165:ILE:HD13	1.91	1.00
6:K:125:LYS:HB3	6:K:126:PRO:HD3	1.03	1.00
5:J:160:GLU:HB3	5:J:315:ILE:HD11	1.01	1.00
6:K:345:PHE:CG	6:K:360:LEU:CD2	2.44	1.00
3:L:198:VAL:HG21	3:L:218:MET:SD	2.01	1.00
3:L:331:ILE:CD1	3:L:367:PHE:CD1	2.45	1.00
1:I:423:LYS:HG3	1:I:427:LEU:HD12	1.39	1.00
5:J:151:ILE:O	5:J:152:GLY:O	1.77	1.00
5:J:160:GLU:CB	5:J:315:ILE:HD13	1.88	1.00
5:J:169:VAL:O	5:J:172:PRO:HD3	1.60	1.00
14:U:94:TRP:CE3	14:U:121:LEU:CD1	2.42	1.00
4:0:374:ASN:C	4:0:414:GLU:HB2	1.82	0.99
10:4:337:ARG:HA	10:4:340:GLU:CD	1.83	0.99
2:H:258:ARG:HD3	2:H:305:GLN:HE22	1.27	0.99
1:I:284:ILE:HG22	1:I:287:ILE:HG23	1.44	0.99
7:1:576:PRO:CG	7:1:611:ASN:HD22	1.74	0.99
9:3:274:VAL:CG1	9:3:287:VAL:CG2	2.39	0.99
1:I:233:THR:OG1	33:I:501:ADP:O2A	1.78	0.99
5:J:247:PHE:CE1	5:J:292:ILE:CG2	2.45	0.99
3:L:303:LEU:CD2	3:L:339:ASN:HA	1.92	0.99
7:N:406:ALA:HA	7:N:445:ALA:CB	1.91	0.99
9:P:274:VAL:CG1	9:P:287:VAL:CG2	2.39	0.99
11:R:229:ILE:HD11	11:R:295:TYR:CZ	1.96	0.99
16:W:169:HIS:CD2	16:W:187:PRO:CG	2.45	0.99
4:0:314:LEU:HD21	4:0:342:LEU:CD2	1.92	0.99
2:H:190:VAL:CG2	2:H:212:VAL:CG2	2.37	0.99
1:I:207:HIS:CD2	1:I:210:TYR:OH	2.16	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:J:151:ILE:HD11	5:J:198:LEU:HD23	1.01	0.99
3:L:148:VAL:HG22	3:L:167:PRO:HB3	1.40	0.99
4:M:314:LEU:HD21	4:M:342:LEU:CD2	1.92	0.99
4:M:342:LEU:O	4:M:348:LEU:CD1	2.08	0.99
11:5:201:PHE:HB3	11:5:223:THR:HG22	1.44	0.99
9:P:67:LEU:HD13	9:P:106:GLN:CB	1.91	0.99
10:Q:302:PHE:HB2	10:Q:330:LEU:HD13	1.42	0.99
12:S:165:ALA:HB3	12:S:203:LEU:HD11	1.45	0.99
8:2:35:HIS:CB	16:AA:14:GLU:CG	2.39	0.99
2:H:89:SER:O	2:H:92:PRO:HD2	1.62	0.99
6:K:149:SER:H	6:K:150:SER:CA	1.75	0.99
9:P:344:THR:HA	9:P:348:GLU:CG	1.93	0.99
12:S:231:LEU:HB3	12:S:250:LEU:HD11	1.44	0.99
15:V:64:ASP:HA	15:V:139:ARG:NH1	1.75	0.99
14:U:266:ILE:CD1	15:V:284:LEU:HD22	1.92	0.99
8:O:34:TRP:CB	16:W:17:ARG:HH12	1.75	0.99
18:Z:272:LEU:O	18:Z:274:ASP:N	1.95	0.99
18:Z:698:SER:HA	18:Z:702:PRO:CB	1.92	0.99
4:O:137:ILE:HG21	4:O:145:LEU:HD11	1.45	0.99
12:6:487:HIS:O	12:6:491:VAL:HG23	1.63	0.99
3:L:238:ILE:CD1	3:L:257:LEU:CB	2.41	0.99
10:Q:297:ARG:CB	10:Q:333:GLN:HB3	1.92	0.99
10:4:84:LYS:HE3	10:4:88:LEU:HD21	1.39	0.99
13:7:224:VAL:HG23	13:7:225:TYR:H	1.27	0.99
2:H:190:VAL:CB	2:H:212:VAL:HG21	1.93	0.99
1:I:398:ILE:HA	1:I:422:SER:OG	1.63	0.99
3:L:145:LEU:HG	3:L:149:ILE:HD12	1.00	0.99
13:T:224:VAL:HG13	13:T:225:TYR:H	1.27	0.99
19:B:132:ARG:NH1	25:X:123:THR:O	1.96	0.99
10:4:302:PHE:HB2	10:4:330:LEU:HD13	1.42	0.99
4:M:249:LEU:HD23	4:M:283:ILE:HG12	0.99	0.99
7:1:423:MET:HE1	7:1:445:ALA:HB1	1.43	0.99
10:4:264:PRO:HB3	10:4:295:LYS:HE3	0.99	0.99
14:8:70:LEU:HD21	14:8:111:LEU:HD21	1.45	0.99
8:2:34:TRP:CB	16:AA:17:ARG:HH12	1.75	0.99
1:I:103:ARG:CG	1:I:160:ILE:CG2	2.41	0.99
5:J:85:VAL:CG2	5:J:99:VAL:HG12	1.92	0.99
10:Q:411:VAL:HG13	10:Q:415:TYR:HE2	1.24	0.99
11:R:120:ALA:HB1	11:R:124:PHE:CE2	1.95	0.99
1:I:349:ARG:HH21	2:H:394:MET:HG3	1.21	0.98
1:I:122:ILE:HD11	1:I:130:GLU:HB3	1.00	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:264:PRO:O	1:I:268:ARG:HG3	1.63	0.98
1:I:288:ASP:HB3	1:I:331:THR:HG22	1.42	0.98
5:J:373:GLU:HG2	5:J:375:ARG:CD	1.93	0.98
6:K:248:ARG:HG3	6:K:295:GLN:HE22	1.25	0.98
3:L:264:MET:CG	3:L:275:MET:HE1	1.92	0.98
10:Q:273:GLY:HA2	10:Q:277:LEU:CB	1.93	0.98
12:S:469:THR:HG21	14:U:250:TYR:CG	1.98	0.98
11:5:142:PHE:CE1	11:5:180:LEU:HD23	1.99	0.98
5:J:273:MET:HE1	5:J:305:LEU:HD21	1.45	0.98
6:K:190:LEU:CD2	6:K:194:ILE:HD11	1.94	0.98
3:L:219:PHE:O	3:L:223:ARG:HG2	1.63	0.98
10:Q:337:ARG:HA	10:Q:340:GLU:CD	1.83	0.98
11:R:201:PHE:HB3	11:R:223:THR:HG22	1.44	0.98
13:7:296:PRO:O	13:7:299:MET:CG	2.11	0.98
1:I:313:LEU:HD11	1:I:340:ALA:HB1	1.42	0.98
5:J:137:LEU:HD11	5:J:220:VAL:HG13	1.35	0.98
5:J:137:LEU:CD2	5:J:224:ILE:HD11	1.92	0.98
4:M:137:ILE:HG21	4:M:145:LEU:HD11	1.45	0.98
11:R:259:TYR:CD1	11:R:260:LEU:N	2.30	0.98
9:3:344:THR:HA	9:3:348:GLU:CG	1.93	0.98
9:3:48:LEU:O	9:3:52:LYS:HD2	1.63	0.98
9:3:74:CYS:O	9:3:78:LYS:HB2	1.64	0.98
13:7:215:LEU:O	13:7:217:ALA:N	1.97	0.98
14:8:266:ILE:CD1	15:9:284:LEU:HD22	1.92	0.98
2:H:209:PRO:HG2	2:H:339:ARG:HG3	1.41	0.98
5:J:114:VAL:HG12	5:J:126:ILE:CB	1.92	0.98
3:L:138:LEU:HD13	3:L:141:GLN:OE1	1.61	0.98
15:V:265:MET:HG3	15:V:269:GLN:OE1	1.61	0.98
10:4:273:GLY:O	10:4:277:LEU:HB2	1.60	0.98
1:I:230:THR:HG22	1:I:353:PHE:CB	1.81	0.98
3:L:70:ILE:HD13	6:K:146:GLU:OE1	1.62	0.98
3:L:198:VAL:HG11	3:L:203:ILE:HD11	1.02	0.98
5:J:377:HIS:NE2	11:R:206:SER:CB	2.26	0.98
4:0:422:GLU:HA	4:0:425:LEU:HB2	1.42	0.98
11:5:183:TYR:CE1	11:5:213:LEU:CD1	2.47	0.98
8:2:35:HIS:CG	16:AA:14:GLU:CG	2.47	0.98
2:H:302:LEU:HD11	2:H:306:LEU:HD22	1.45	0.98
14:U:101:LEU:O	14:U:102:HIS:ND1	1.96	0.98
14:U:174:HIS:CD2	15:V:155:VAL:HG12	1.98	0.98
4:0:153:VAL:CG1	4:0:158:TYR:HA	1.94	0.98
4:0:249:LEU:HD23	4:0:283:ILE:HG12	0.99	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:0:407:ALA:CB	4:0:415:LEU:HD22	1.94	0.98
4:0:435:LEU:HD21	4:0:438:TYR:CZ	1.98	0.98
12:6:231:LEU:HB3	12:6:250:LEU:HD11	1.44	0.98
14:8:101:LEU:O	14:8:102:HIS:ND1	1.96	0.98
2:H:302:LEU:O	2:H:306:LEU:HB2	1.63	0.98
7:N:549:ALA:CB	7:N:581:SER:CB	2.41	0.98
15:V:146:ASP:OD2	15:V:149:GLN:HG2	1.63	0.98
8:O:35:HIS:CG	16:W:14:GLU:CG	2.47	0.98
14:8:174:HIS:CD2	15:9:155:VAL:HG12	1.98	0.98
15:9:146:ASP:OD2	15:9:149:GLN:HG2	1.63	0.98
2:H:161:VAL:HG21	2:H:259:GLU:HB3	1.45	0.98
2:H:172:VAL:HG11	2:H:224:LEU:HD22	1.42	0.98
2:H:333:ARG:HG2	2:H:334:PRO:CD	1.94	0.98
2:H:86:THR:HA	2:H:89:SER:OG	1.63	0.98
1:I:182:GLU:O	1:I:241:ASN:ND2	1.97	0.98
3:L:184:ALA:HB2	3:L:231:PHE:CZ	1.98	0.98
9:P:48:LEU:O	9:P:52:LYS:HD2	1.63	0.98
12:S:472:PRO:O	12:S:476:PHE:HD2	1.47	0.98
14:U:22:HIS:NE2	14:U:35:VAL:CG1	2.22	0.98
7:1:549:ALA:CB	7:1:581:SER:CB	2.41	0.98
14:8:263:ALA:HB1	15:9:288:VAL:HG13	1.46	0.98
5:J:137:LEU:CD2	5:J:224:ILE:CD1	2.40	0.98
6:K:345:PHE:HD2	6:K:360:LEU:HG	1.20	0.98
3:L:181:THR:HB	33:L:401:ADP:O2A	1.62	0.98
3:L:197:LYS:NZ	4:M:320:PHE:CZ	2.31	0.98
11:R:241:ILE:HD11	11:R:260:LEU:HD21	1.46	0.98
14:U:79:TYR:CZ	14:U:91:ILE:HG12	1.99	0.98
14:8:43:TRP:HA	14:8:48:LEU:HD23	1.42	0.97
1:I:392:GLY:HA3	33:I:501:ADP:N7	1.79	0.97
5:J:302:ASP:OD1	5:J:303:SER:N	1.95	0.97
6:K:176:GLU:HG3	6:K:331:ILE:HD11	1.45	0.97
3:L:104:THR:HG21	15:V:50:PRO:HB3	1.46	0.97
4:M:153:VAL:CG1	4:M:158:TYR:HA	1.94	0.97
4:M:407:ALA:CB	4:M:415:LEU:HD22	1.94	0.97
11:R:142:PHE:CE1	11:R:180:LEU:HD23	1.99	0.97
4:0:410:ARG:NH2	4:0:419:ASP:OD1	1.97	0.97
9:3:344:THR:HA	9:3:348:GLU:HB2	1.42	0.97
10:Q:292:GLN:O	10:Q:296:ASN:OD1	1.82	0.97
7:1:406:ALA:HA	7:1:445:ALA:CB	1.93	0.97
10:4:273:GLY:HA2	10:4:277:LEU:CB	1.93	0.97
12:6:165:ALA:HB3	12:6:203:LEU:HD11	1.45	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:102:LEU:HD11	2:H:87:LEU:HD12	1.46	0.97
1:I:398:ILE:CG2	1:I:419:PHE:HD1	1.77	0.97
6:K:184:PRO:CA	6:K:191:TYR:CE2	2.47	0.97
6:K:237:GLN:NE2	6:K:242:GLU:HG2	1.79	0.97
3:L:145:LEU:HG	3:L:149:ILE:HD11	1.42	0.97
3:L:363:VAL:CG2	3:L:364:GLN:H	1.75	0.97
4:M:410:ARG:NH2	4:M:419:ASP:OD1	1.97	0.97
13:T:215:LEU:O	13:T:217:ALA:N	1.97	0.97
9:3:444:HIS:HE1	14:8:138:TYR:OH	1.44	0.97
10:4:292:GLN:O	10:4:296:ASN:OD1	1.82	0.97
11:5:229:ILE:HG13	11:5:295:TYR:HE1	1.15	0.97
1:I:106:PRO:HG3	5:J:121:TYR:CB	1.93	0.97
5:J:77:VAL:HB	5:J:86:LEU:CD1	1.93	0.97
6:K:115:ILE:CD1	6:K:121:ARG:CZ	2.23	0.97
13:T:296:PRO:O	13:T:299:MET:CG	2.11	0.97
10:4:302:PHE:CG	10:4:330:LEU:HD12	1.99	0.97
11:5:204:THR:OG1	11:5:219:PHE:HZ	1.48	0.97
2:H:102:ILE:CD1	2:H:120:LYS:CD	2.43	0.97
1:I:387:LYS:HB2	1:I:390:LEU:HD23	1.41	0.97
7:N:198:LEU:O	7:N:201:LEU:CG	2.13	0.97
11:R:204:THR:OG1	11:R:219:PHE:HZ	1.48	0.97
14:U:263:ALA:HB1	15:V:288:VAL:HG13	1.46	0.97
8:2:35:HIS:HA	16:AA:14:GLU:OE2	1.64	0.97
11:5:229:ILE:CG1	11:5:295:TYR:CE1	2.48	0.97
2:H:119:ALA:HB2	4:M:127:SER:O	1.64	0.97
1:I:290:ILE:CD1	1:I:309:MET:HE3	1.95	0.97
1:I:398:ILE:HG22	1:I:419:PHE:HD1	1.17	0.97
5:J:247:PHE:CE1	5:J:292:ILE:HG22	1.98	0.97
3:L:322:LYS:CD	3:L:326:ILE:HD11	1.94	0.97
4:M:435:LEU:HD21	4:M:438:TYR:CZ	1.98	0.97
5:J:151:ILE:CD1	5:J:198:LEU:HB3	1.95	0.97
9:P:146:THR:HG21	9:P:169:LEU:HD13	1.42	0.97
10:Q:302:PHE:CG	10:Q:330:LEU:HD12	1.99	0.97
10:Q:84:LYS:CE	10:Q:88:LEU:CD2	2.43	0.97
12:S:330:LYS:HG2	12:S:360:TYR:HE2	1.26	0.97
14:U:215:VAL:O	14:U:220:LEU:CB	2.12	0.97
24:G:166:GLN:HE22	4:0:386:ARG:CB	1.76	0.97
7:1:198:LEU:O	7:1:201:LEU:CG	2.13	0.97
10:4:249:THR:HG23	10:4:253:TYR:HE2	1.30	0.97
5:J:133:PRO:HG2	5:J:237:MET:HE1	0.99	0.97
3:L:363:VAL:CG2	3:L:364:GLN:N	2.22	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:Z:412:ALA:HA	18:Z:447:ALA:HB2	1.43	0.97
18:Z:792:ALA:HB2	18:Z:824:ALA:HB2	0.97	0.97
11:5:241:ILE:HD11	11:5:260:LEU:HD21	1.46	0.97
14:8:79:TYR:CD2	14:8:91:ILE:CG1	2.40	0.97
6:K:116:LEU:C	6:K:119:ILE:HD13	1.84	0.97
3:L:123:SER:OG	3:L:196:LEU:HD22	1.64	0.97
3:L:227:PRO:HG3	3:L:272:ARG:HG2	1.43	0.97
4:M:96:LEU:HD11	4:M:145:LEU:CB	1.95	0.97
10:Q:194:ARG:NH1	10:Q:214:SER:OG	1.98	0.97
10:Q:264:PRO:HB3	10:Q:295:LYS:HE3	0.99	0.97
12:S:487:HIS:O	12:S:491:VAL:HG23	1.63	0.97
14:8:215:VAL:O	14:8:220:LEU:CB	2.12	0.96
12:6:469:THR:HG21	14:8:250:TYR:CG	1.98	0.96
1:I:424:GLU:HA	1:I:428:TYR:CE2	2.00	0.96
6:K:125:LYS:CB	6:K:126:PRO:HD3	1.94	0.96
12:S:101:LEU:O	12:S:105:SER:CB	2.13	0.96
11:5:186:LEU:HD11	11:5:287:LEU:CG	1.94	0.96
11:5:50:MET:CE	11:5:53:TYR:HE2	1.73	0.96
19:B:96:TYR:CE2	19:B:100:ASN:OD1	2.18	0.96
2:H:258:ARG:CD	2:H:305:GLN:HE22	1.78	0.96
1:I:102:LEU:HD11	2:H:87:LEU:CD1	1.94	0.96
5:J:85:VAL:HG22	5:J:99:VAL:CG1	1.95	0.96
7:N:419:ALA:HB2	7:N:449:ILE:HD13	1.46	0.96
14:U:74:TYR:CE1	15:V:98:MET:SD	2.58	0.96
9:3:46:THR:O	9:3:50:LEU:HD23	1.61	0.96
12:6:101:LEU:O	12:6:105:SER:CB	2.13	0.96
12:6:231:LEU:O	12:6:250:LEU:HD21	1.65	0.96
6:K:91:GLN:HA	6:K:128:ALA:O	1.63	0.96
10:Q:302:PHE:HB2	10:Q:330:LEU:CD1	1.95	0.96
7:1:419:ALA:HB2	7:1:449:ILE:HD13	1.46	0.96
5:J:167:LEU:HD11	5:J:174:LEU:HD12	1.47	0.96
6:K:96:VAL:HG21	6:K:112:TYR:CE1	1.99	0.96
9:P:453:HIS:O	9:P:454:ASN:ND2	1.99	0.96
11:R:120:ALA:HB1	11:R:124:PHE:CZ	2.01	0.96
4:0:96:LEU:HD11	4:0:145:LEU:CB	1.95	0.96
11:5:347:ILE:O	12:6:415:SER:N	1.98	0.96
15:9:240:HIS:O	15:9:244:VAL:HG23	1.66	0.96
6:K:293:LEU:HD22	6:K:326:ARG:HH11	1.15	0.96
3:L:258:MET:CA	3:L:261:LEU:HD12	1.94	0.96
11:R:186:LEU:CD1	11:R:287:LEU:HG	1.96	0.96
11:R:347:ILE:O	12:S:415:SER:N	1.98	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:4:194:ARG:NH1	10:4:214:SER:OG	1.98	0.96
10:4:297:ARG:HB3	10:4:333:GLN:CB	1.96	0.96
5:J:232:ARG:HE	5:J:279:GLN:HE22	1.11	0.96
6:K:345:PHE:CE2	6:K:360:LEU:HD11	2.01	0.96
3:L:215:ILE:CD1	3:L:260:LEU:CD2	2.43	0.96
4:M:217:ILE:HG13	4:M:218:GLN:H	1.28	0.96
11:R:183:TYR:CE1	11:R:213:LEU:CD1	2.47	0.96
15:V:203:ILE:HG22	15:V:204:THR:H	1.30	0.96
1:I:271:PHE:HZ	1:I:316:LEU:CD1	1.78	0.96
6:K:190:LEU:HD22	6:K:194:ILE:CD1	1.96	0.96
3:L:322:LYS:CB	3:L:326:ILE:HD11	1.95	0.96
8:O:374:ILE:HD13	14:U:188:SER:HA	1.47	0.96
14:U:72:HIS:CE1	14:U:111:LEU:CD1	2.24	0.96
12:6:231:LEU:CB	12:6:250:LEU:HD11	1.96	0.96
2:H:103:ASN:HB3	2:H:136:GLU:OE2	1.65	0.96
1:I:271:PHE:HZ	1:I:316:LEU:HD13	1.25	0.96
6:K:293:LEU:CD2	6:K:326:ARG:HH11	1.69	0.96
7:N:365:CYS:SG	7:N:724:VAL:CB	2.53	0.96
4:0:169:ASP:CB	4:0:172:VAL:HG23	1.95	0.96
4:0:217:ILE:HG13	4:0:218:GLN:H	1.28	0.96
10:4:76:PHE:CB	10:4:80:ILE:CB	2.44	0.96
10:4:84:LYS:CE	10:4:88:LEU:CD2	2.43	0.96
6:K:394:VAL:HG12	6:K:398:ASP:HB2	1.48	0.96
3:L:195:PHE:CE1	3:L:229:ILE:CG1	2.48	0.96
9:P:74:CYS:O	9:P:78:LYS:HB2	1.64	0.96
11:R:186:LEU:HD11	11:R:287:LEU:CG	1.94	0.96
15:9:309:PHE:O	15:9:310:LYS:NZ	1.98	0.96
2:H:284:ARG:O	2:H:285:PHE:O	1.84	0.96
1:I:369:THR:HB	1:I:374:LEU:HD13	0.99	0.96
3:L:331:ILE:HD11	3:L:367:PHE:CG	2.01	0.96
2:H:121:PHE:HA	4:M:88:TYR:O	1.66	0.96
10:Q:249:THR:HG23	10:Q:253:TYR:HE2	1.30	0.96
2:H:112:ILE:HG12	2:H:122:VAL:CG2	1.95	0.95
1:I:275:GLU:HG3	1:I:322:ARG:NH1	1.80	0.95
1:I:366:GLN:O	1:I:370:SER:HB3	1.66	0.95
5:J:143:VAL:HG11	5:J:213:ARG:HD3	0.96	0.95
15:V:309:PHE:O	15:V:310:LYS:NZ	1.98	0.95
4:0:373:MET:HE1	4:0:415:LEU:HD11	1.48	0.95
13:7:123:LEU:CG	13:7:140:GLN:O	2.14	0.95
5:J:46:GLN:O	5:J:50:ASN:N	1.98	0.95
6:K:164:TYR:CD1	6:K:222:HIS:HD2	1.83	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:237:ALA:CB	4:M:284:PHE:CE2	2.49	0.95
9:3:153:LYS:CE	9:3:162:ALA:HA	1.97	0.95
14:8:74:TYR:CE1	15:9:98:MET:SD	2.58	0.95
18:AC:783:SER:CB	18:AC:897:PHE:CB	2.45	0.95
1:I:136:LEU:HD23	2:H:87:LEU:HD22	0.96	0.95
1:I:200:SER:O	1:I:219:PRO:CD	2.14	0.95
5:J:114:VAL:HG12	5:J:126:ILE:HG23	1.47	0.95
5:J:232:ARG:NE	5:J:279:GLN:HE22	1.64	0.95
6:K:184:PRO:HB3	6:K:191:TYR:CZ	1.99	0.95
3:L:173:TYR:CE1	3:L:388:PRO:HD3	2.02	0.95
11:R:241:ILE:HD11	11:R:260:LEU:CD2	1.97	0.95
4:0:314:LEU:HD21	4:0:342:LEU:HD23	1.46	0.95
8:2:374:ILE:HD13	14:8:188:SER:HA	1.47	0.95
3:L:126:ASP:OD1	4:M:320:PHE:CD2	2.18	0.95
10:Q:105:GLN:O	10:Q:109:LEU:CG	2.14	0.95
12:S:231:LEU:CB	12:S:250:LEU:HD11	1.96	0.95
16:W:169:HIS:CD2	16:W:187:PRO:HG3	2.01	0.95
7:1:365:CYS:SG	7:1:724:VAL:CB	2.53	0.95
9:3:274:VAL:CG1	9:3:287:VAL:HG22	1.97	0.95
12:6:472:PRO:HB2	12:6:476:PHE:CE2	2.01	0.95
1:I:132:TYR:HE2	2:H:153:LEU:HD21	1.32	0.95
5:J:162:LYS:HG3	5:J:166:GLU:OE1	1.66	0.95
3:L:251:ARG:NH1	6:K:274:ARG:O	2.00	0.95
3:L:327:ASP:CG	3:L:330:ALA:CB	2.32	0.95
4:M:206:MET:HB2	4:M:327:LYS:NZ	1.82	0.95
4:M:225:MET:HG2	4:M:354:PHE:HE2	1.21	0.95
10:Q:76:PHE:CB	10:Q:80:ILE:CB	2.44	0.95
4:0:206:MET:HB2	4:0:327:LYS:NZ	1.82	0.95
4:0:237:ALA:CB	4:0:284:PHE:CE2	2.49	0.95
10:4:302:PHE:HB2	10:4:330:LEU:CD1	1.95	0.95
13:7:89:GLN:CG	13:7:115:GLU:OE1	2.14	0.95
15:9:203:ILE:HG22	15:9:204:THR:H	1.30	0.95
5:J:137:LEU:CD1	5:J:224:ILE:CD1	2.32	0.95
5:J:373:GLU:HG2	5:J:375:ARG:HD2	1.47	0.95
6:K:167:ILE:HD13	6:K:218:ALA:HB2	1.46	0.95
6:K:184:PRO:HG3	6:K:191:TYR:HH	1.13	0.95
9:P:66:ILE:O	9:P:70:VAL:HG12	1.66	0.95
2:H:355:PHE:CD1	2:H:385:ILE:CG2	2.49	0.95
6:K:147:ALA:HB1	6:K:249:ASP:OD2	1.65	0.95
15:V:240:HIS:O	15:V:244:VAL:HG23	1.66	0.95
4:0:198:LEU:CD1	4:0:240:CYS:SG	2.54	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AC:792:ALA:HB2	18:AC:824:ALA:HB2	0.97	0.95
6:K:149:SER:H	6:K:150:SER:HA	1.01	0.95
6:K:345:PHE:CG	6:K:360:LEU:HD21	2.02	0.95
6:K:360:LEU:HD12	6:K:363:TYR:CD2	2.02	0.95
4:M:198:LEU:CD1	4:M:240:CYS:SG	2.54	0.95
11:5:186:LEU:CD1	11:5:287:LEU:HG	1.96	0.95
2:H:334:PRO:HG2	2:H:334:PRO:O	1.66	0.95
5:J:114:VAL:HG12	5:J:126:ILE:CG2	1.96	0.95
9:P:153:LYS:CE	9:P:162:ALA:HA	1.97	0.95
15:V:203:ILE:HG22	15:V:204:THR:N	1.81	0.95
18:Z:783:SER:CB	18:Z:897:PHE:CB	2.45	0.95
20:C:198:PHE:HZ	20:C:206:ASN:HB3	1.25	0.95
1:I:106:PRO:CB	5:J:97:VAL:HG12	1.97	0.95
6:K:273:LYS:O	6:K:275:PHE:N	1.99	0.95
4:M:169:ASP:CB	4:M:172:VAL:HG23	1.95	0.95
9:3:66:ILE:O	9:3:70:VAL:HG12	1.66	0.94
6:K:248:ARG:HG3	6:K:295:GLN:NE2	1.81	0.94
6:K:93:LEU:HB3	6:K:102:ILE:O	1.65	0.94
3:L:238:ILE:CD1	3:L:257:LEU:HB2	1.95	0.94
3:L:61:LEU:HD12	3:L:78:ARG:HG2	1.48	0.94
3:L:253:ILE:HG13	4:M:308:ARG:HH22	1.29	0.94
10:Q:411:VAL:CG1	10:Q:415:TYR:HE2	1.79	0.94
4:0:137:ILE:HD13	4:0:145:LEU:CD1	1.97	0.94
11:5:241:ILE:HD11	11:5:260:LEU:CD2	1.97	0.94
6:K:164:TYR:CD1	6:K:222:HIS:CD2	2.56	0.94
6:K:95:ALA:HA	6:K:101:ALA:HA	1.46	0.94
3:L:257:LEU:O	3:L:261:LEU:CD1	2.14	0.94
3:L:199:VAL:HG11	4:M:315:ASN:HD21	1.32	0.94
9:P:274:VAL:CG1	9:P:287:VAL:HG22	1.97	0.94
12:S:476:PHE:O	12:S:480:ILE:HD13	1.65	0.94
4:0:248:PHE:CZ	4:0:250:LYS:HB3	2.01	0.94
2:H:161:VAL:HG12	2:H:263:MET:HE2	1.46	0.94
3:L:148:VAL:HG22	3:L:167:PRO:CG	1.95	0.94
8:O:35:HIS:HA	16:W:14:GLU:OE2	1.64	0.94
9:P:48:LEU:HD21	9:P:90:LEU:HD12	1.48	0.94
10:4:337:ARG:HA	10:4:340:GLU:CG	1.98	0.94
3:L:253:ILE:HD11	4:M:261:ILE:HD11	1.46	0.94
11:R:146:ARG:HH12	11:R:213:LEU:HD12	1.33	0.94
13:T:123:LEU:CG	13:T:140:GLN:O	2.14	0.94
12:S:480:ILE:HB	13:T:342:TYR:OH	1.68	0.94
15:9:237:HIS:ND1	15:9:298:GLN:OE1	2.00	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:275:GLU:HG3	1:I:322:ARG:HH11	1.29	0.94
12:S:231:LEU:O	12:S:250:LEU:HD21	1.65	0.94
16:W:169:HIS:HD2	16:W:187:PRO:CB	1.80	0.94
6:K:394:VAL:HG13	6:K:398:ASP:HB3	1.49	0.94
10:Q:294:SER:O	10:Q:297:ARG:N	2.00	0.94
10:4:84:LYS:HE3	10:4:88:LEU:HD23	1.49	0.94
15:9:203:ILE:HG22	15:9:204:THR:N	1.81	0.94
1:I:290:ILE:HD13	1:I:309:MET:HE3	1.46	0.94
4:M:137:ILE:HD13	4:M:145:LEU:CD1	1.97	0.94
3:L:201:SER:HB3	4:M:312:GLU:OE1	1.66	0.94
12:S:472:PRO:HB2	12:S:476:PHE:CE2	2.01	0.94
15:V:267:PRO:HD2	15:V:268:GLU:H	1.33	0.94
4:0:225:MET:CG	4:0:354:PHE:CE2	2.50	0.94
7:1:22:PHE:HB3	13:7:121:LEU:CD2	1.98	0.94
7:1:616:ARG:NH2	7:1:650:TYR:HD2	1.64	0.94
10:4:105:GLN:O	10:4:109:LEU:CG	2.14	0.94
6:K:411:GLU:O	6:K:412:GLN:HB2	1.65	0.94
3:L:198:VAL:HG11	3:L:203:ILE:CD1	1.97	0.94
7:N:616:ARG:NH2	7:N:650:TYR:HD2	1.64	0.94
10:Q:260:MET:SD	10:Q:325:LYS:HB3	2.08	0.94
11:R:229:ILE:HG13	11:R:295:TYR:HE1	1.17	0.94
13:T:89:GLN:CG	13:T:115:GLU:OE1	2.14	0.94
9:3:453:HIS:O	9:3:454:ASN:ND2	1.99	0.94
10:4:334:ASN:O	10:4:338:VAL:HG23	1.68	0.94
10:4:411:VAL:CG1	10:4:415:TYR:HE2	1.79	0.94
2:H:174:TYR:HE2	2:H:184:ILE:HG23	1.30	0.94
11:R:360:ASP:OD2	12:S:466:ILE:HG21	1.66	0.94
15:V:237:HIS:ND1	15:V:298:GLN:OE1	2.00	0.94
10:4:203:PRO:HB2	10:4:204:PRO:HD3	1.50	0.94
2:H:174:TYR:HD2	2:H:184:ILE:HD13	1.28	0.94
10:Q:334:ASN:O	10:Q:338:VAL:HG23	1.68	0.94
14:U:122:VAL:HG22	14:U:137:ALA:HA	1.50	0.94
14:U:23:PHE:HE1	14:U:28:LYS:O	1.51	0.94
2:H:102:ILE:HD11	2:H:120:LYS:CD	1.97	0.94
4:M:248:PHE:CZ	4:M:250:LYS:HB3	2.01	0.94
13:T:330:ILE:N	13:T:331:PRO:CD	2.31	0.94
11:5:146:ARG:NH1	11:5:213:LEU:HD12	1.82	0.93
14:8:23:PHE:HE1	14:8:28:LYS:O	1.51	0.93
15:9:240:HIS:O	15:9:244:VAL:CG2	2.16	0.93
6:K:100:THR:HG22	6:K:112:TYR:CE1	2.03	0.93
3:L:129:ASN:O	3:L:189:SER:HB2	1.68	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:272:PHE:CE2	4:M:316:GLN:HB2	2.03	0.93
9:P:444:HIS:HE1	14:U:138:TYR:OH	1.44	0.93
4:0:376:SER:HB2	4:0:377:PRO:CD	1.97	0.93
4:0:384:LEU:O	4:0:387:CYS:SG	2.26	0.93
2:H:209:PRO:CG	2:H:339:ARG:HG3	1.97	0.93
6:K:391:ARG:NH1	6:K:395:LEU:HG	1.82	0.93
3:L:238:ILE:HD11	3:L:257:LEU:CB	1.97	0.93
3:L:352:MET:O	3:L:356:ARG:HG3	1.69	0.93
7:N:243:LEU:CB	7:N:915:LYS:CG	2.46	0.93
7:N:419:ALA:CB	7:N:449:ILE:CD1	2.47	0.93
10:Q:337:ARG:HA	10:Q:340:GLU:CG	1.98	0.93
11:R:146:ARG:NH1	11:R:213:LEU:HD12	1.82	0.93
4:0:293:THR:HG23	4:0:337:ILE:CG2	1.99	0.93
11:5:200:LEU:O	11:5:204:THR:HG23	1.68	0.93
1:I:144:LEU:CG	1:I:162:VAL:HG22	1.99	0.93
6:K:90:GLY:C	6:K:130:VAL:HG22	1.88	0.93
10:Q:61:GLY:O	10:Q:64:ALA:N	2.00	0.93
7:1:243:LEU:CB	7:1:915:LYS:CG	2.46	0.93
11:5:120:ALA:HB1	11:5:124:PHE:CE2	2.04	0.93
13:7:330:ILE:N	13:7:331:PRO:CD	2.31	0.93
2:H:255:ARG:O	2:H:259:GLU:CG	2.15	0.93
5:J:39:SER:CB	6:K:54:LEU:HD13	1.97	0.93
4:M:314:LEU:HD21	4:M:342:LEU:HD23	1.46	0.93
4:M:225:MET:CG	4:M:354:PHE:CE2	2.50	0.93
4:0:272:PHE:CE2	4:0:316:GLN:HB2	2.03	0.93
10:4:294:SER:O	10:4:297:ARG:N	2.00	0.93
2:H:351:ARG:CZ	2:H:377:CYS:O	2.17	0.93
1:I:315:GLN:HE22	1:I:322:ARG:HH21	1.17	0.93
5:J:321:ASN:O	5:J:325:ARG:HG3	1.67	0.93
5:J:320:PRO:HG3	5:J:355:SER:HA	1.49	0.93
6:K:267:ILE:HD13	6:K:309:MET:CB	1.98	0.93
6:K:354:LEU:CA	6:K:393:ILE:HG23	1.96	0.93
3:L:56:ILE:O	3:L:100:LEU:N	2.00	0.93
15:V:240:HIS:O	15:V:244:VAL:CG2	2.16	0.93
10:4:163:LYS:CD	10:4:200:ILE:HG21	1.98	0.93
15:9:259:VAL:O	15:9:263:ASP:HB2	1.69	0.93
2:H:125:LEU:CA	2:H:149:ILE:HB	1.98	0.93
2:H:245:LEU:HD12	2:H:280:ILE:HG12	1.49	0.93
2:H:299:MET:HE3	2:H:328:ASP:HB2	1.50	0.93
3:L:77:PRO:HG3	6:K:107:THR:HG22	1.47	0.93
3:L:143:ARG:HG3	3:L:147:GLU:OE2	1.67	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:376:SER:HB2	4:M:377:PRO:CD	1.97	0.93
4:O:89:LEU:CD1	4:O:128:THR:HG23	1.99	0.93
7:1:419:ALA:CB	7:1:449:ILE:HD12	1.99	0.93
10:4:260:MET:SD	10:4:325:LYS:HB3	2.08	0.93
14:8:79:TYR:HE1	14:8:83:LYS:CE	1.81	0.93
1:I:356:PRO:HB3	1:I:361:LYS:HG3	1.47	0.93
6:K:345:PHE:CE2	6:K:360:LEU:CG	2.52	0.93
4:M:272:PHE:CE2	4:M:316:GLN:CB	2.52	0.93
4:M:89:LEU:CD1	4:M:128:THR:HG23	1.99	0.93
10:Q:203:PRO:HB2	10:Q:204:PRO:HD3	1.50	0.93
23:F:20:ARG:HB3	4:O:435:LEU:CD1	1.99	0.93
7:1:419:ALA:CB	7:1:449:ILE:CD1	2.47	0.93
5:J:273:MET:HE2	5:J:293:MET:SD	2.09	0.93
12:6:476:PHE:O	12:6:480:ILE:HD13	1.65	0.93
1:I:283:PHE:CD1	1:I:328:ILE:HG22	1.99	0.93
1:I:342:ILE:HG21	2:H:423:PHE:HB3	1.50	0.93
3:L:259:GLU:OE2	6:K:233:SER:HB3	1.68	0.93
6:K:248:ARG:HB3	6:K:252:ARG:HH21	1.34	0.93
4:O:272:PHE:CE2	4:O:316:GLN:CB	2.52	0.93
4:O:435:LEU:HD21	4:O:438:TYR:CE1	2.04	0.93
10:4:155:ARG:HA	10:4:158:LYS:CG	1.99	0.93
12:6:472:PRO:HD2	12:6:473:GLN:H	1.34	0.93
12:6:480:ILE:HB	13:7:342:TYR:OH	1.68	0.93
14:8:240:VAL:CB	14:8:242:LEU:HG	1.99	0.93
10:Q:163:LYS:CD	10:Q:200:ILE:HG21	1.98	0.93
11:R:108:ALA:CB	11:R:124:PHE:CE1	2.52	0.93
11:R:200:LEU:O	11:R:204:THR:HG23	1.68	0.93
4:O:225:MET:HG2	4:O:354:PHE:HE2	1.21	0.92
4:O:80:ILE:HG22	4:O:84:LYS:HD2	1.48	0.92
23:F:18:GLU:OE2	4:O:431:LYS:CD	2.17	0.92
5:J:148:TYR:O	5:J:150:MET:N	2.02	0.92
6:K:103:VAL:HG11	6:K:139:LEU:HD21	1.50	0.92
6:K:359:ASP:O	6:K:361:GLU:N	2.00	0.92
7:1:35:TRP:HH2	12:6:273:LYS:CD	1.81	0.92
15:9:237:HIS:CE1	15:9:298:GLN:OE1	2.22	0.92
8:2:35:HIS:CB	16:AA:14:GLU:OE2	2.17	0.92
2:H:299:MET:HE3	2:H:328:ASP:HB3	1.50	0.92
2:H:413:VAL:HG13	2:H:417:ILE:HD12	1.50	0.92
1:I:387:LYS:CB	1:I:390:LEU:CD2	2.47	0.92
6:K:210:CYS:SG	6:K:334:PRO:O	2.26	0.92
4:M:88:TYR:HE1	4:M:161:LEU:HD12	1.34	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:215:LEU:HD23	4:M:217:ILE:CG2	1.99	0.92
4:M:384:LEU:O	4:M:387:CYS:SG	2.26	0.92
9:P:274:VAL:HG11	9:P:287:VAL:HG22	1.51	0.92
10:Q:258:LYS:HE2	10:Q:266:ASP:HB3	0.94	0.92
13:T:330:ILE:N	13:T:331:PRO:HD3	1.84	0.92
14:U:240:VAL:CB	14:U:242:LEU:HG	1.99	0.92
15:V:237:HIS:CE1	15:V:298:GLN:OE1	2.22	0.92
8:O:35:HIS:CB	16:W:14:GLU:OE2	2.17	0.92
8:2:248:PHE:CD1	8:2:272:ILE:HG13	2.03	0.92
1:I:107:MET:HE3	1:I:160:ILE:CD1	1.99	0.92
1:I:144:LEU:CD1	1:I:162:VAL:HG23	1.99	0.92
1:I:287:ILE:HD13	1:I:331:THR:HG21	1.48	0.92
6:K:93:LEU:HD11	6:K:94:GLU:CD	1.88	0.92
3:L:66:GLU:HB3	3:L:89:LYS:HD3	1.50	0.92
9:P:55:ARG:C	9:P:56:THR:HG23	1.89	0.92
15:V:35:SER:HB3	15:V:213:GLU:OE2	1.70	0.92
11:5:216:TYR:O	11:5:220:VAL:HG23	1.69	0.92
2:H:347:ASP:O	2:H:351:ARG:NH1	2.01	0.92
5:J:86:LEU:CD2	5:J:96:VAL:HG23	1.98	0.92
3:L:383:LYS:HG2	3:L:386:TYR:HH	1.23	0.92
2:H:353:HIS:O	2:H:357:ILE:HG13	1.70	0.92
1:I:284:ILE:CG2	1:I:287:ILE:HG23	1.98	0.92
5:J:67:GLN:CA	6:K:136:SER:OG	2.17	0.92
3:L:195:PHE:CD1	3:L:229:ILE:CG2	2.52	0.92
10:Q:84:LYS:HE3	10:Q:88:LEU:HD23	1.49	0.92
2:H:351:ARG:NH2	2:H:374:ALA:O	2.02	0.92
1:I:232:LYS:NZ	1:I:332:ASN:HD22	1.67	0.92
5:J:133:PRO:HG2	5:J:237:MET:HE3	1.49	0.92
7:N:419:ALA:CB	7:N:449:ILE:HD12	1.99	0.92
12:S:473:GLN:NE2	14:U:253:THR:HG21	1.84	0.92
14:8:22:HIS:HD2	14:8:35:VAL:CG1	1.63	0.92
2:H:102:ILE:HD11	2:H:120:LYS:HD3	1.50	0.92
2:H:83:ASP:HA	2:H:86:THR:OG1	1.70	0.92
1:I:118:ASP:CG	1:I:120:HIS:NE2	2.22	0.92
5:J:307:ARG:NH1	5:J:307:ARG:HB3	1.83	0.92
5:J:377:HIS:CD2	11:R:206:SER:HB2	2.05	0.92
3:L:325:GLU:OE1	3:L:364:GLN:HG2	1.70	0.92
4:M:80:ILE:HG22	4:M:84:LYS:HD2	1.48	0.92
7:N:22:PHE:HB3	13:T:121:LEU:CD2	1.98	0.92
10:Q:339:ILE:CB	10:Q:387:ILE:HD11	1.98	0.92
12:S:198:GLN:CB	12:S:203:LEU:HD23	1.99	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:0:215:LEU:HD23	4:0:217:ILE:CG2	1.99	0.92
7:1:586:VAL:HG11	7:1:601:ARG:HH22	1.34	0.92
8:2:274:LEU:HD23	8:2:275:LEU:N	1.85	0.92
9:3:374:THR:HG22	9:3:375:MET:H	1.32	0.92
10:4:253:TYR:HD1	10:4:319:ILE:CD1	1.81	0.92
14:8:122:VAL:HG22	14:8:137:ALA:HA	1.50	0.92
15:9:267:PRO:HD2	15:9:268:GLU:H	1.33	0.92
20:C:132:SER:HB3	20:C:162:MET:HE1	1.49	0.92
3:L:51:GLN:O	3:L:53:VAL:HG23	1.70	0.92
4:M:373:MET:CE	4:M:415:LEU:CD1	2.48	0.92
4:M:80:ILE:CG2	4:M:84:LYS:CG	2.42	0.92
7:N:220:LEU:O	7:N:224:ASP:N	2.03	0.92
9:P:374:THR:HG22	9:P:375:MET:H	1.32	0.92
10:Q:253:TYR:HD1	10:Q:319:ILE:CD1	1.81	0.92
11:R:344:HIS:O	11:R:357:ASN:OD1	1.88	0.92
12:S:472:PRO:HD2	12:S:473:GLN:H	1.34	0.92
4:0:88:TYR:HE1	4:0:161:LEU:HD12	1.34	0.92
11:5:53:TYR:HH	11:5:150:PHE:HZ	0.94	0.92
14:8:79:TYR:CE1	14:8:83:LYS:HE2	2.04	0.92
6:K:116:LEU:HB2	6:K:119:ILE:HD11	1.49	0.92
3:L:148:VAL:CG2	3:L:167:PRO:HB3	1.98	0.92
3:L:331:ILE:HD13	3:L:367:PHE:CD1	2.04	0.92
9:3:48:LEU:HD21	9:3:90:LEU:HD12	1.48	0.92
11:5:344:HIS:O	11:5:357:ASN:OD1	1.88	0.92
5:J:189:TYR:CE2	5:J:316:GLU:HG3	2.03	0.92
3:L:148:VAL:CG2	3:L:167:PRO:CB	2.48	0.92
4:M:293:THR:HG23	4:M:337:ILE:CG2	1.99	0.92
10:Q:155:ARG:HA	10:Q:158:LYS:CG	1.99	0.92
10:Q:48:GLN:O	10:Q:52:GLU:N	2.02	0.92
11:R:208:PHE:HD2	11:R:216:TYR:CD1	1.87	0.92
14:U:74:TYR:CD1	15:V:98:MET:SD	2.63	0.92
12:6:198:GLN:CB	12:6:203:LEU:HD23	1.99	0.91
2:H:365:GLU:OE1	2:H:405:THR:HA	1.67	0.91
6:K:345:PHE:CE2	6:K:360:LEU:HG	2.05	0.91
3:L:303:LEU:HD22	3:L:339:ASN:CA	1.99	0.91
14:8:23:PHE:CD2	14:8:126:VAL:CG2	2.52	0.91
1:I:225:TYR:HA	1:I:331:THR:O	1.70	0.91
6:K:160:PRO:HG2	6:K:220:ALA:HB3	0.93	0.91
3:L:138:LEU:C	3:L:140:GLU:H	1.69	0.91
4:M:188:ILE:HG22	4:M:189:GLY:H	1.33	0.91
10:Q:82:LYS:HB3	10:Q:122:ARG:NH2	1.86	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:3:55:ARG:C	9:3:56:THR:HG23	1.89	0.91
2:H:191:VAL:HG11	2:H:229:VAL:HG11	1.51	0.91
6:K:406:VAL:O	6:K:408:LYS:CG	2.17	0.91
3:L:101:ASP:O	3:L:105:LEU:HD22	1.68	0.91
9:3:274:VAL:HG11	9:3:287:VAL:HG22	1.51	0.91
1:I:144:LEU:CD1	1:I:162:VAL:HG22	1.97	0.91
1:I:234:LEU:CD1	33:I:501:ADP:C2	2.53	0.91
5:J:247:PHE:CD1	5:J:292:ILE:HG22	2.06	0.91
6:K:200:ARG:HH22	6:K:299:PHE:HB3	1.36	0.91
3:L:200:SER:HB3	3:L:234:GLU:O	1.70	0.91
3:L:291:ARG:HE	3:L:294:ARG:HH11	1.18	0.91
4:M:435:LEU:HD21	4:M:438:TYR:CE1	2.04	0.91
8:O:274:LEU:HD23	8:O:275:LEU:N	1.85	0.91
10:Q:337:ARG:HA	10:Q:340:GLU:HG3	1.52	0.91
11:R:241:ILE:CD1	11:R:260:LEU:CD1	2.49	0.91
14:U:23:PHE:CD2	14:U:126:VAL:CG2	2.52	0.91
9:3:448:LYS:CE	14:8:154:THR:OG1	2.18	0.91
2:H:190:VAL:CG1	2:H:212:VAL:HG23	1.98	0.91
5:J:232:ARG:HE	5:J:279:GLN:NE2	1.68	0.91
6:K:345:PHE:CD2	6:K:360:LEU:HD21	2.03	0.91
3:L:181:THR:HG21	4:M:319:GLY:HA2	1.52	0.91
3:L:215:ILE:CD1	3:L:260:LEU:HD21	2.00	0.91
4:M:399:VAL:HA	4:M:427:VAL:HG21	0.91	0.91
5:J:150:MET:O	5:J:151:ILE:CG1	2.18	0.91
6:K:145:PRO:CG	6:K:256:GLU:HG3	1.99	0.91
7:N:35:TRP:HH2	12:S:273:LYS:CD	1.81	0.91
4:O:169:ASP:HB3	4:O:172:VAL:HG23	1.50	0.91
14:8:266:ILE:HD11	15:9:284:LEU:HD22	1.50	0.91
1:I:136:LEU:HA	2:H:87:LEU:CD2	2.00	0.91
1:I:206:THR:C	1:I:208:PRO:HD2	1.91	0.91
5:J:338:LEU:HD22	5:J:342:ILE:CD1	2.01	0.91
6:K:149:SER:O	6:K:230:VAL:HG22	1.68	0.91
6:K:64:GLU:O	6:K:68:LEU:CD1	2.19	0.91
3:L:198:VAL:CG1	3:L:203:ILE:CD1	2.48	0.91
9:P:448:LYS:CE	14:U:154:THR:OG1	2.18	0.91
25:X:150:MET:O	25:X:151:ILE:CG1	3.55	0.91
9:3:317:TRP:CZ2	9:3:351:TRP:HZ3	1.87	0.91
10:4:258:LYS:HE2	10:4:266:ASP:HB3	0.94	0.91
12:6:473:GLN:NE2	14:8:253:THR:HG21	1.84	0.91
14:8:74:TYR:CD1	15:9:98:MET:SD	2.63	0.91
1:I:390:LEU:CD1	1:I:395:ILE:CG1	2.49	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:K:92:PHE:O	6:K:127:ASN:HA	1.71	0.91
4:M:399:VAL:CG2	4:M:427:VAL:HB	2.01	0.91
15:V:259:VAL:O	15:V:263:ASP:HB2	1.69	0.91
7:1:497:LEU:CD1	7:1:515:ALA:HB3	2.01	0.91
11:5:234:PRO:HD2	11:5:235:ASP:H	1.36	0.91
15:9:35:SER:HB3	15:9:213:GLU:OE2	1.70	0.91
5:J:194:THR:O	33:J:501:ADP:N7	2.03	0.91
3:L:145:LEU:CG	3:L:149:ILE:HD11	1.99	0.91
3:L:350:ALA:CB	3:L:366:ASP:O	2.19	0.91
7:N:497:LEU:CD1	7:N:515:ALA:HB3	2.01	0.91
10:Q:96:PHE:CZ	10:Q:106:GLU:OE2	2.23	0.91
10:4:82:LYS:HB3	10:4:122:ARG:NH2	1.86	0.91
11:5:208:PHE:HD2	11:5:216:TYR:CD1	1.87	0.91
13:7:330:ILE:N	13:7:331:PRO:HD3	1.84	0.91
1:I:184:TYR:OH	1:I:239:VAL:HG22	1.71	0.91
1:I:223:ILE:CD1	1:I:347:ILE:CG2	2.48	0.91
3:L:353:PHE:HA	3:L:356:ARG:HB2	1.51	0.91
11:R:108:ALA:HB2	11:R:123:ALA:HB3	1.51	0.91
13:T:322:GLN:O	13:T:324:LYS:N	2.03	0.91
12:S:480:ILE:HB	13:T:342:TYR:CZ	2.06	0.91
4:0:188:ILE:HG22	4:0:189:GLY:H	1.33	0.90
23:F:20:ARG:CB	4:0:435:LEU:HD11	2.00	0.90
4:0:80:ILE:CG2	4:0:84:LYS:CG	2.42	0.90
10:4:339:ILE:CB	10:4:387:ILE:HD11	1.98	0.90
15:9:251:LEU:CD1	15:9:283:HIS:HB3	2.01	0.90
19:B:207:SER:O	19:B:208:ILE:HD13	1.70	0.90
3:L:257:LEU:O	3:L:261:LEU:HD12	1.69	0.90
4:M:169:ASP:HB3	4:M:172:VAL:HG23	1.50	0.90
4:0:373:MET:CE	4:0:415:LEU:CD1	2.48	0.90
10:4:84:LYS:CE	10:4:88:LEU:HD21	2.01	0.90
11:5:300:ARG:NH1	11:5:333:GLU:CG	2.35	0.90
11:5:50:MET:HE2	11:5:53:TYR:CE2	2.05	0.90
2:H:215:PHE:CD2	2:H:324:PRO:HG3	2.06	0.90
1:I:230:THR:HG22	1:I:353:PHE:HB3	0.91	0.90
5:J:235:PHE:HE1	5:J:276:LEU:HD22	0.95	0.90
5:J:30:GLU:HB3	5:J:34:ILE:HD11	1.52	0.90
6:K:125:LYS:CB	6:K:126:PRO:CD	2.46	0.90
6:K:92:PHE:HB3	6:K:128:ALA:H	1.36	0.90
8:O:370:GLN:O	13:T:340:ILE:HG21	1.71	0.90
10:Q:84:LYS:CE	10:Q:88:LEU:HD21	2.01	0.90
9:3:78:LYS:N	9:3:79:GLU:HB3	1.86	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:4:96:PHE:CZ	10:4:106:GLU:OE2	2.23	0.90
10:4:337:ARG:HA	10:4:340:GLU:HG3	1.52	0.90
7:1:35:TRP:HH2	12:6:273:LYS:HD2	1.32	0.90
13:7:322:GLN:O	13:7:324:LYS:N	2.03	0.90
1:I:227:PRO:CG	1:I:355:LEU:HD21	2.01	0.90
3:L:114:GLU:OE1	3:L:114:GLU:N	2.05	0.90
3:L:148:VAL:O	3:L:152:PRO:CG	2.19	0.90
3:L:322:LYS:HB2	3:L:326:ILE:HD11	1.53	0.90
10:4:397:TYR:CD2	11:5:365:GLN:NE2	2.40	0.90
12:6:480:ILE:HB	13:7:342:TYR:CZ	2.06	0.90
3:L:323:HIS:O	3:L:325:GLU:N	2.04	0.90
10:Q:397:TYR:CD2	11:R:365:GLN:NE2	2.40	0.90
7:1:220:LEU:O	7:1:224:ASP:N	2.03	0.90
10:4:218:HIS:CD2	10:4:231:TYR:HE2	1.90	0.90
11:5:241:ILE:CD1	11:5:260:LEU:CD1	2.49	0.90
6:K:164:TYR:HB2	6:K:222:HIS:NE2	1.87	0.90
6:K:164:TYR:HD1	6:K:222:HIS:CD2	1.87	0.90
9:P:150:ALA:HB2	9:P:165:ILE:HD11	1.52	0.90
11:R:216:TYR:O	11:R:220:VAL:HG23	1.69	0.90
8:2:370:GLN:O	13:7:340:ILE:HG21	1.71	0.90
9:3:107:GLN:C	9:3:141:GLU:OE2	2.10	0.90
10:4:294:SER:HA	10:4:330:LEU:HD21	1.54	0.90
1:I:183:THR:HA	1:I:241:ASN:HD22	1.35	0.90
6:K:403:TYR:C	6:K:407:ILE:HD13	1.91	0.90
3:L:322:LYS:CG	3:L:326:ILE:HD11	2.01	0.90
14:U:266:ILE:HD11	15:V:284:LEU:HD22	1.50	0.90
2:H:48:VAL:CB	18:Z:235:SER:CB	2.49	0.90
9:3:150:ALA:HB2	9:3:165:ILE:HD11	1.52	0.90
2:H:355:PHE:CD1	2:H:385:ILE:HG22	2.07	0.90
9:P:78:LYS:N	9:P:79:GLU:HB3	1.86	0.90
10:Q:273:GLY:HA2	10:Q:277:LEU:HB2	1.53	0.90
7:1:524:LYS:CB	7:1:555:VAL:CB	2.50	0.90
1:I:246:THR:OG1	1:I:280:SER:CB	2.20	0.90
1:I:339:PRO:CB	2:H:425:ALA:HB2	1.84	0.90
9:P:420:ASP:HB3	9:P:421:PRO:HD3	1.53	0.90
7:N:35:TRP:HH2	12:S:273:LYS:HD2	1.32	0.90
1:I:204:PRO:O	1:I:208:PRO:HB3	1.70	0.90
1:I:232:LYS:HA	1:I:353:PHE:HE2	1.35	0.90
5:J:187:LEU:HD22	5:J:311:ILE:HD13	1.51	0.90
11:R:234:PRO:HD2	11:R:235:ASP:H	1.36	0.90
14:U:131:LEU:CD1	14:U:199:LYS:HD3	2.02	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:4:85:ALA:O	10:4:89:VAL:HG23	1.71	0.90
11:5:344:HIS:CE1	11:5:359:PRO:CB	2.55	0.90
17:AB:62:LYS:O	17:AB:66:LYS:N	2.05	0.90
4:M:150:LEU:HB2	4:M:164:LEU:HB2	1.54	0.90
10:Q:367:GLN:OE1	11:R:233:ARG:NH2	2.05	0.90
4:O:188:ILE:O	4:O:368:ILE:HD11	1.72	0.89
10:4:251:LEU:HD11	10:4:276:ALA:CB	2.02	0.89
2:H:299:MET:CE	2:H:328:ASP:CB	2.46	0.89
2:H:90:GLU:HA	2:H:93:LEU:CD2	2.01	0.89
5:J:298:ILE:HG23	5:J:301:LEU:HD21	1.52	0.89
7:N:524:LYS:CB	7:N:555:VAL:CB	2.50	0.89
9:P:420:ASP:O	9:P:422:ASN:N	2.05	0.89
10:Q:157:LEU:HB2	10:Q:166:LEU:CD1	2.02	0.89
10:4:279:TYR:O	10:4:280:ALA:O	1.91	0.89
11:5:108:ALA:HB2	11:5:123:ALA:HB3	1.51	0.89
2:H:190:VAL:CG1	2:H:212:VAL:HG21	1.98	0.89
5:J:65:LEU:HD12	5:J:68:GLU:OE2	1.72	0.89
14:8:72:HIS:HE1	14:8:111:LEU:HD11	1.07	0.89
1:I:132:TYR:CE2	2:H:153:LEU:HD21	2.06	0.89
1:I:103:ARG:CG	1:I:160:ILE:HG23	2.02	0.89
5:J:151:ILE:CG1	5:J:198:LEU:CD2	2.39	0.89
14:U:22:HIS:HD2	14:U:35:VAL:CG1	1.63	0.89
10:4:157:LEU:HB2	10:4:166:LEU:CD1	2.02	0.89
10:4:302:PHE:CB	10:4:330:LEU:CD1	2.50	0.89
2:H:303:ILE:HG23	2:H:336:ARG:CZ	2.03	0.89
7:N:586:VAL:HG11	7:N:601:ARG:HH22	1.34	0.89
10:Q:294:SER:HA	10:Q:330:LEU:HD21	1.54	0.89
10:Q:97:LEU:HD23	10:Q:106:GLU:HG2	1.55	0.89
11:5:146:ARG:HH12	11:5:213:LEU:HD12	1.33	0.89
6:K:181:VAL:O	6:K:185:LEU:HB2	1.70	0.89
3:L:148:VAL:HG23	3:L:167:PRO:CG	2.02	0.89
4:M:252:ALA:HB3	4:M:255:GLN:HG3	1.53	0.89
15:V:251:LEU:CD1	15:V:283:HIS:HB3	2.01	0.89
18:Z:318:THR:O	18:Z:322:SER:CA	2.21	0.89
4:O:399:VAL:HA	4:O:427:VAL:HG21	0.91	0.89
2:H:245:LEU:HD12	2:H:280:ILE:HD13	1.35	0.89
6:K:93:LEU:HD11	6:K:94:GLU:CG	2.00	0.89
10:Q:218:HIS:CD2	10:Q:231:TYR:HE2	1.90	0.89
11:R:300:ARG:NH1	11:R:333:GLU:CG	2.35	0.89
18:AC:259:PHE:CB	18:AC:262:PHE:CB	2.50	0.89
18:AC:318:THR:O	18:AC:322:SER:CA	2.21	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:G:166:GLN:HE22	4:0:386:ARG:HB3	1.33	0.89
2:H:245:LEU:HD11	2:H:280:ILE:HD13	1.55	0.89
6:K:184:PRO:HA	6:K:191:TYR:HE2	1.21	0.89
6:K:176:GLU:CG	6:K:331:ILE:CD1	2.51	0.89
6:K:391:ARG:HH12	6:K:395:LEU:HG	1.34	0.89
11:R:21:GLN:HG2	11:R:286:TRP:HE3	1.37	0.89
18:Z:227:ALA:O	18:Z:229:VAL:N	2.06	0.89
4:0:314:LEU:CD2	4:0:342:LEU:CD2	2.50	0.89
9:3:420:ASP:HB3	9:3:421:PRO:HD3	1.53	0.89
14:8:131:LEU:CD1	14:8:199:LYS:HD3	2.02	0.89
2:H:330:ALA:HB1	2:H:336:ARG:HH11	1.37	0.89
1:I:285:ASP:OD1	1:I:330:ALA:HB3	1.72	0.89
1:I:365:PHE:CD1	1:I:380:LEU:HD22	2.07	0.89
5:J:72:TYR:HE2	5:J:121:TYR:HH	0.89	0.89
5:J:333:SER:HB2	5:J:338:LEU:HD11	1.55	0.89
6:K:133:HIS:CE1	6:K:136:SER:CB	2.52	0.89
6:K:162:VAL:CG1	6:K:214:MET:CE	2.51	0.89
6:K:93:LEU:HD12	6:K:94:GLU:CG	1.99	0.89
3:L:250:ASP:O	3:L:254:GLN:HG2	1.71	0.89
9:P:107:GLN:C	9:P:141:GLU:OE2	2.10	0.89
9:P:344:THR:CA	9:P:348:GLU:HB2	2.03	0.89
11:R:241:ILE:HD13	11:R:260:LEU:CD1	2.03	0.89
18:Z:697:ILE:O	18:Z:701:ASN:N	2.06	0.89
2:H:261:PHE:CZ	2:H:306:LEU:HD13	2.07	0.89
5:J:137:LEU:HD11	5:J:220:VAL:HG11	1.52	0.89
3:L:148:VAL:HG23	3:L:167:PRO:HG3	1.54	0.89
3:L:235:ILE:O	3:L:239:GLY:CA	2.20	0.89
4:M:215:LEU:CD2	4:M:217:ILE:CG2	2.51	0.89
10:Q:302:PHE:CB	10:Q:330:LEU:CD1	2.50	0.89
15:V:203:ILE:CG2	15:V:204:THR:H	1.86	0.89
4:0:90:VAL:HG23	4:0:127:SER:OG	1.73	0.89
9:3:420:ASP:O	9:3:422:ASN:N	2.05	0.89
10:4:367:GLN:OE1	11:5:233:ARG:NH2	2.05	0.89
11:5:376:LEU:O	11:5:380:VAL:HG23	1.72	0.89
2:H:368:ILE:HB	2:H:406:GLU:OE1	1.72	0.89
6:K:176:GLU:OE2	6:K:329:ARG:HD2	1.72	0.89
3:L:331:ILE:HD11	3:L:367:PHE:CD1	2.08	0.89
4:M:228:PRO:HG2	4:M:356:MET:CG	2.02	0.89
9:P:317:TRP:CZ2	9:P:351:TRP:HZ3	1.87	0.89
10:Q:52:GLU:O	10:Q:56:LEU:N	2.06	0.89
11:R:344:HIS:CE1	11:R:359:PRO:CB	2.55	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:S:328:VAL:HG13	12:S:329:HIS:N	1.87	0.89
4:0:399:VAL:CG2	4:0:427:VAL:HB	2.01	0.88
11:5:21:GLN:HG2	11:5:286:TRP:HE3	1.37	0.88
1:I:106:PRO:O	1:I:154:HIS:CD2	2.26	0.88
5:J:333:SER:HB2	5:J:338:LEU:HD12	1.52	0.88
6:K:207:PRO:HB2	6:K:335:LEU:CD2	2.01	0.88
10:Q:251:LEU:HD11	10:Q:276:ALA:CB	2.02	0.88
4:0:183:GLU:O	4:0:184:GLN:O	1.90	0.88
10:4:52:GLU:O	10:4:56:LEU:N	2.06	0.88
11:5:259:TYR:HD1	11:5:260:LEU:H	1.17	0.88
12:6:472:PRO:O	12:6:476:PHE:HD2	1.47	0.88
17:AB:57:ARG:O	17:AB:61:GLU:N	2.06	0.88
1:I:272:ARG:HG2	1:I:272:ARG:HH11	1.38	0.88
5:J:196:LYS:HG2	5:J:317:PHE:CE1	2.09	0.88
3:L:322:LYS:NZ	3:L:326:ILE:HD12	1.87	0.88
4:M:90:VAL:HG23	4:M:127:SER:OG	1.73	0.88
10:Q:85:ALA:O	10:Q:89:VAL:HG23	1.71	0.88
11:R:376:LEU:O	11:R:380:VAL:HG23	1.72	0.88
4:0:215:LEU:CD2	4:0:217:ILE:CG2	2.51	0.88
8:2:4:VAL:CG1	8:2:26:GLU:OE2	2.22	0.88
10:4:273:GLY:HA2	10:4:277:LEU:HB2	1.53	0.88
16:AA:55:ALA:O	16:AA:85:THR:OG1	1.91	0.88
2:H:172:VAL:HG13	2:H:224:LEU:HD22	1.55	0.88
1:I:217:LYS:HB3	1:I:218:PRO:CD	2.03	0.88
1:I:227:PRO:HG2	1:I:355:LEU:HD11	1.54	0.88
5:J:247:PHE:CD1	5:J:292:ILE:CG2	2.57	0.88
3:L:325:GLU:OE1	3:L:363:VAL:HG23	1.73	0.88
7:N:350:LEU:O	7:N:354:LYS:N	2.05	0.88
8:2:248:PHE:CE2	8:2:272:ILE:HD11	2.09	0.88
9:3:384:LEU:CD1	9:3:392:PHE:CE2	2.57	0.88
10:4:332:GLU:OE1	10:4:364:LYS:CD	2.22	0.88
14:8:8:LYS:O	14:8:47:VAL:HG13	1.73	0.88
1:I:191:ASP:O	1:I:194:ILE:N	2.05	0.88
5:J:137:LEU:CG	5:J:224:ILE:CD1	2.50	0.88
6:K:378:ILE:HG23	6:K:402:ALA:HB1	1.54	0.88
11:R:225:TYR:OH	11:R:278:VAL:CG1	2.21	0.88
12:S:207:ALA:O	12:S:210:CYS:HB3	1.72	0.88
9:3:344:THR:CA	9:3:348:GLU:HB2	2.03	0.88
5:J:224:ILE:CG2	5:J:237:MET:SD	2.62	0.88
6:K:119:ILE:O	6:K:121:ARG:N	2.06	0.88
3:L:201:SER:CB	4:M:312:GLU:OE1	2.22	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:V:306:THR:C	15:V:310:LYS:HE2	1.93	0.88
1:I:65:LEU:CB	18:Z:206:ASP:CB	2.52	0.88
18:Z:291:GLN:O	18:Z:295:ALA:N	2.07	0.88
4:0:435:LEU:CD2	4:0:438:TYR:CE1	2.57	0.88
7:1:350:LEU:O	7:1:354:LYS:N	2.05	0.88
9:3:279:PHE:CD2	9:3:364:ARG:HD2	2.08	0.88
12:6:165:ALA:CB	12:6:203:LEU:CD1	2.51	0.88
12:6:207:ALA:O	12:6:210:CYS:HB3	1.72	0.88
12:6:328:VAL:HG13	12:6:329:HIS:N	1.87	0.88
15:9:306:THR:C	15:9:310:LYS:HE2	1.93	0.88
18:AC:227:ALA:O	18:AC:229:VAL:N	2.06	0.88
5:J:149:GLU:OE2	11:R:133:ALA:HB1	1.74	0.88
6:K:128:ALA:CB	6:K:142:VAL:CG1	2.51	0.88
3:L:255:ARG:HG3	3:L:255:ARG:HH21	1.39	0.88
3:L:383:LYS:HG2	3:L:386:TYR:CZ	2.08	0.88
3:L:56:ILE:HD13	4:M:132:TYR:CE1	2.08	0.88
1:I:401:GLU:HB3	1:I:422:SER:CB	2.04	0.88
3:L:61:LEU:CD1	3:L:78:ARG:CD	2.52	0.88
10:Q:332:GLU:OE1	10:Q:364:LYS:CD	2.22	0.88
10:4:402:GLU:CG	15:9:249:LEU:HD11	2.04	0.88
2:H:299:MET:HE3	2:H:328:ASP:OD2	1.65	0.88
3:L:77:PRO:HB2	6:K:106:THR:OG1	1.74	0.88
4:M:233:LYS:HG2	4:M:354:PHE:CD2	2.09	0.88
9:P:421:PRO:HD2	9:P:422:ASN:H	1.38	0.88
18:Z:259:PHE:CB	18:Z:262:PHE:CB	2.50	0.88
4:0:233:LYS:HG2	4:0:354:PHE:HD2	1.36	0.88
19:B:203:SER:O	19:B:207:SER:N	2.06	0.88
1:I:387:LYS:HB2	1:I:390:LEU:CD2	2.04	0.88
6:K:391:ARG:HH12	6:K:395:LEU:CG	1.86	0.88
3:L:122:MET:CE	3:L:218:MET:CG	2.52	0.88
3:L:61:LEU:CD1	3:L:78:ARG:CG	2.51	0.88
4:M:139:LEU:O	4:M:140:VAL:CG1	2.22	0.88
8:O:4:VAL:CG2	8:O:26:GLU:OE2	2.22	0.88
11:R:183:TYR:HE1	11:R:213:LEU:HD11	0.99	0.88
11:R:289:ALA:HB3	11:R:290:PRO:HD3	1.56	0.88
14:U:224:HIS:O	14:U:228:TYR:CE1	2.27	0.88
4:0:139:LEU:O	4:0:140:VAL:CG1	2.22	0.88
4:0:150:LEU:HB2	4:0:164:LEU:HB2	1.54	0.88
4:0:252:ALA:HB3	4:0:255:GLN:HG3	1.53	0.88
24:G:166:GLN:NE2	4:0:383:GLU:O	2.06	0.88
11:5:225:TYR:OH	11:5:278:VAL:CG1	2.21	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:5:289:ALA:HB3	11:5:290:PRO:HD3	1.56	0.88
18:AC:697:ILE:O	18:AC:701:ASN:N	2.06	0.88
2:H:174:TYR:CD2	2:H:184:ILE:HD13	2.09	0.88
9:P:384:LEU:CD1	9:P:392:PHE:CE2	2.57	0.88
9:P:384:LEU:CB	9:P:388:GLU:HB2	2.04	0.88
10:Q:19:ASP:O	10:Q:23:SER:N	2.07	0.88
4:0:248:PHE:CE2	4:0:250:LYS:HB3	2.09	0.87
2:H:224:LEU:O	2:H:228:ALA:N	2.07	0.87
2:H:161:VAL:HG12	2:H:263:MET:CE	2.04	0.87
5:J:188:LEU:HB2	5:J:294:ALA:HB1	1.56	0.87
5:J:209:CYS:SG	5:J:243:PRO:HB2	2.14	0.87
3:L:50:LEU:HD13	4:M:82:VAL:HG21	1.54	0.87
9:P:279:PHE:CD2	9:P:364:ARG:HD2	2.08	0.87
10:Q:212:MET:CG	10:Q:235:ALA:HB1	2.03	0.87
10:4:212:MET:CG	10:4:235:ALA:HB1	2.03	0.87
18:AC:256:PHE:CB	18:AC:260:SER:HA	2.04	0.87
2:H:233:THR:HG23	2:H:234:ASP:N	1.89	0.87
1:I:234:LEU:HD11	33:I:501:ADP:C2	2.09	0.87
25:X:3:ILE:O	25:X:5:THR:N	2.06	0.87
10:4:19:ASP:O	10:4:23:SER:N	2.07	0.87
1:I:390:LEU:CD1	1:I:395:ILE:HG13	2.04	0.87
5:J:41:ASN:C	5:J:44:ARG:HB2	1.93	0.87
3:L:346:VAL:HA	3:L:374:VAL:HG21	1.55	0.87
4:M:183:GLU:O	4:M:184:GLN:O	1.90	0.87
4:M:373:MET:HE1	4:M:415:LEU:HD11	1.54	0.87
11:R:120:ALA:O	11:R:124:PHE:CD2	2.27	0.87
11:R:51:ALA:HB3	11:R:52:PRO:HD3	1.56	0.87
4:0:233:LYS:HG2	4:0:354:PHE:CD2	2.09	0.87
3:L:338:PHE:HZ	3:L:375:ALA:CA	1.88	0.87
7:N:893:THR:HA	7:N:906:LEU:CG	2.04	0.87
17:Y:57:ARG:O	17:Y:61:GLU:N	2.06	0.87
4:0:376:SER:CB	4:0:414:GLU:OE1	2.22	0.87
7:1:803:LYS:N	7:1:879:ASP:OD2	2.08	0.87
11:5:21:GLN:HG3	11:5:286:TRP:CZ3	2.09	0.87
11:5:363:ASN:ND2	12:6:466:ILE:HG23	1.89	0.87
14:8:256:GLN:OE1	15:9:299:CYS:SG	2.32	0.87
2:H:302:LEU:CD1	2:H:306:LEU:HD22	2.04	0.87
5:J:161:ILE:CD1	5:J:199:LEU:HG	2.04	0.87
5:J:377:HIS:NE2	11:R:206:SER:HB2	1.86	0.87
6:K:115:ILE:HD11	6:K:121:ARG:NH2	1.90	0.87
6:K:366:ARG:NH1	6:K:403:TYR:CD2	2.42	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:143:ARG:O	3:L:147:GLU:OE1	1.92	0.87
4:M:188:ILE:O	4:M:368:ILE:HD11	1.72	0.87
4:M:233:LYS:HG2	4:M:354:PHE:HD2	1.36	0.87
4:M:248:PHE:CE2	4:M:250:LYS:HB3	2.09	0.87
4:M:435:LEU:CD2	4:M:438:TYR:CE1	2.57	0.87
9:P:209:ILE:CG2	9:P:226:TYR:CZ	2.57	0.87
11:R:158:THR:O	11:R:162:GLU:HG2	1.75	0.87
14:U:8:LYS:O	14:U:47:VAL:HG13	1.73	0.87
4:O:288:LEU:HD21	4:O:342:LEU:CD1	2.04	0.87
2:H:273:PHE:CE2	2:H:275:ASP:HB2	2.10	0.87
1:I:344:PRO:HG2	1:I:344:PRO:O	1.72	0.87
1:I:407:LEU:HD13	5:J:175:PHE:CE1	2.09	0.87
6:K:215:LEU:CD2	6:K:333:PHE:HZ	1.86	0.87
6:K:378:ILE:CG1	6:K:406:VAL:HG21	2.04	0.87
4:M:399:VAL:N	4:M:427:VAL:HG21	1.89	0.87
11:R:21:GLN:HG3	11:R:286:TRP:CZ3	2.09	0.87
12:S:345:ARG:O	12:S:347:GLN:N	2.08	0.87
17:Y:62:LYS:O	17:Y:66:LYS:N	2.05	0.87
18:Z:256:PHE:CB	18:Z:260:SER:HA	2.04	0.87
8:2:73:PRO:HB3	8:2:110:ALA:CB	2.05	0.87
11:5:158:THR:O	11:5:162:GLU:HG2	1.75	0.87
10:4:397:TYR:CZ	14:8:258:VAL:HG21	2.10	0.87
2:H:143:ASP:OD2	2:H:146:LYS:CB	2.23	0.87
5:J:133:PRO:CG	5:J:237:MET:CE	2.44	0.87
6:K:406:VAL:O	6:K:408:LYS:HG3	1.75	0.87
2:H:301:GLU:OE1	4:M:254:PRO:HB2	1.75	0.87
10:Q:279:TYR:O	10:Q:280:ALA:O	1.91	0.87
16:W:55:ALA:O	16:W:85:THR:OG1	1.91	0.87
4:O:399:VAL:HG22	4:O:427:VAL:CB	2.05	0.87
11:5:241:ILE:HD13	11:5:260:LEU:CD1	2.03	0.87
12:6:345:ARG:O	12:6:347:GLN:N	2.08	0.87
13:7:330:ILE:HG22	13:7:334:GLU:OE1	1.74	0.87
14:8:224:HIS:O	14:8:228:TYR:CE1	2.27	0.87
15:9:203:ILE:CG2	15:9:204:THR:H	1.86	0.87
18:AC:291:GLN:O	18:AC:295:ALA:N	2.07	0.87
5:J:143:VAL:CG1	5:J:213:ARG:CD	2.47	0.87
5:J:55:LYS:O	5:J:59:LEU:HB2	1.75	0.87
6:K:394:VAL:HG13	6:K:398:ASP:CG	1.95	0.87
4:M:153:VAL:HG12	4:M:158:TYR:HA	1.56	0.87
4:M:202:ILE:HG21	4:M:282:ILE:CD1	2.04	0.87
11:R:30:GLU:HA	11:R:31:HIS:CG	2.10	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:0:228:PRO:HG2	4:0:356:MET:CG	2.02	0.87
4:0:202:ILE:HG21	4:0:282:ILE:CD1	2.04	0.87
4:0:303:ASP:O	4:0:307:GLN:OE1	1.93	0.87
4:0:228:PRO:CG	4:0:356:MET:HG3	2.02	0.87
12:6:463:MET:O	12:6:466:ILE:N	2.08	0.87
14:8:40:LEU:HG	14:8:91:ILE:HD13	1.56	0.87
1:I:290:ILE:HD13	1:I:309:MET:CE	2.05	0.87
1:I:363:ARG:O	1:I:367:ILE:HG13	1.74	0.87
3:L:212:ALA:O	3:L:216:ARG:HD2	1.73	0.87
3:L:322:LYS:HD3	3:L:326:ILE:HD11	1.56	0.87
7:N:191:LYS:O	7:N:195:ASN:N	2.08	0.87
8:O:73:PRO:HB3	8:O:110:ALA:CB	2.05	0.87
14:U:256:GLN:OE1	15:V:299:CYS:SG	2.32	0.87
9:3:384:LEU:CB	9:3:388:GLU:HB2	2.04	0.86
10:4:183:LEU:HD11	10:4:220:ALA:HB3	1.57	0.86
17:AB:54:ASN:O	17:AB:58:ALA:N	2.08	0.86
1:I:162:VAL:HG13	1:I:163:LEU:N	1.90	0.86
1:I:193:GLN:OE1	1:I:352:GLU:O	1.93	0.86
1:I:214:MET:O	2:H:362:MET:HB2	1.75	0.86
1:I:401:GLU:CB	1:I:422:SER:HB2	2.04	0.86
5:J:214:VAL:HG21	5:J:234:LEU:HD21	1.57	0.86
5:J:86:LEU:HD22	5:J:96:VAL:HG22	1.55	0.86
7:1:191:LYS:O	7:1:195:ASN:N	2.08	0.86
10:4:97:LEU:HD23	10:4:106:GLU:HG2	1.55	0.86
2:H:351:ARG:HA	2:H:354:ILE:HD12	1.56	0.86
1:I:180:PRO:CG	1:I:241:ASN:N	2.38	0.86
5:J:162:LYS:HE2	5:J:166:GLU:OE1	1.75	0.86
4:M:246:ALA:HB2	4:M:280:PRO:HG2	1.57	0.86
7:N:470:ASN:N	7:N:474:ARG:CB	2.39	0.86
10:Q:397:TYR:CZ	14:U:258:VAL:HG21	2.10	0.86
4:0:384:LEU:CA	4:0:387:CYS:SG	2.63	0.86
7:1:696:ILE:HG12	7:1:737:LEU:HA	1.58	0.86
12:6:328:VAL:HG13	12:6:329:HIS:H	1.39	0.86
1:I:269:GLU:O	1:I:273:VAL:HG23	1.75	0.86
6:K:239:TYR:HE2	6:K:245:ARG:HH22	1.24	0.86
4:M:399:VAL:HG22	4:M:427:VAL:CB	2.05	0.86
8:2:348:GLY:O	8:2:352:ARG:HG3	1.75	0.86
11:5:30:GLU:HA	11:5:31:HIS:CG	2.10	0.86
1:I:234:LEU:CD1	33:I:501:ADP:C4	2.58	0.86
1:I:313:LEU:CG	1:I:346:ARG:HH11	1.83	0.86
5:J:328:ILE:HG12	33:J:501:ADP:N1	1.90	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:K:212:LYS:HG2	6:K:333:PHE:CD2	2.11	0.86
6:K:345:PHE:CE2	6:K:360:LEU:CD1	2.58	0.86
3:L:61:LEU:CD1	3:L:78:ARG:HG2	2.05	0.86
4:M:303:ASP:O	4:M:307:GLN:OE1	1.93	0.86
4:M:376:SER:CB	4:M:414:GLU:OE1	2.22	0.86
4:M:80:ILE:CG2	4:M:84:LYS:CE	2.53	0.86
9:P:274:VAL:HG11	9:P:287:VAL:CG2	2.05	0.86
10:Q:397:TYR:CD2	11:R:365:GLN:CD	2.49	0.86
14:U:262:LEU:O	14:U:266:ILE:HG22	1.76	0.86
4:O:153:VAL:HG12	4:O:158:TYR:HA	1.56	0.86
5:J:154:LEU:O	5:J:158:ILE:CG1	2.23	0.86
10:Q:402:GLU:CG	15:V:249:LEU:HD11	2.04	0.86
16:W:25:ARG:HH12	16:W:143:PHE:HB3	1.39	0.86
7:I:893:THR:HA	7:I:906:LEU:CG	2.04	0.86
9:3:421:PRO:HD2	9:3:422:ASN:H	1.38	0.86
1:I:203:LEU:HB3	1:I:204:PRO:HD3	1.55	0.86
1:I:180:PRO:CG	1:I:240:ALA:C	2.44	0.86
1:I:250:VAL:HG21	1:I:270:LEU:CD1	2.04	0.86
5:J:114:VAL:HG11	5:J:126:ILE:HG12	1.56	0.86
17:Y:54:ASN:O	17:Y:58:ALA:N	2.08	0.86
4:O:226:TYR:HB3	4:O:335:VAL:CG2	2.04	0.86
11:5:53:TYR:O	11:5:56:ALA:N	2.08	0.86
16:AA:53:THR:O	16:AA:58:CYS:HA	1.75	0.86
17:AB:59:GLU:O	17:AB:63:HIS:N	2.09	0.86
1:I:271:PHE:CG	1:I:315:GLN:NE2	2.44	0.86
6:K:160:PRO:CG	6:K:220:ALA:CB	2.51	0.86
11:R:263:LEU:HB2	11:R:271:PHE:CE2	2.11	0.86
18:AC:667:GLY:O	18:AC:672:LEU:N	2.09	0.86
1:I:365:PHE:HZ	1:I:383:LEU:CD1	1.82	0.86
5:J:72:TYR:CD2	5:J:121:TYR:OH	2.28	0.86
5:J:155:ASP:O	5:J:158:ILE:N	2.08	0.86
7:N:490:ARG:H	7:N:519:VAL:HG23	1.39	0.86
11:R:259:TYR:HD1	11:R:260:LEU:H	1.17	0.86
4:O:407:ALA:HB3	4:O:415:LEU:HD22	1.58	0.86
9:3:154:GLU:HB3	9:3:158:ASP:HB3	1.58	0.86
10:4:251:LEU:HD11	10:4:276:ALA:HB1	1.57	0.86
13:7:345:GLN:O	13:7:349:ILE:CD1	2.24	0.86
15:9:240:HIS:O	15:9:244:VAL:CB	2.24	0.86
15:9:283:HIS:O	15:9:287:HIS:HB2	1.76	0.86
2:H:191:VAL:HG13	2:H:271:LEU:HD21	1.58	0.86
1:I:154:HIS:HE1	5:J:95:PHE:CD1	1.94	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:J:340:ARG:HB3	5:J:340:ARG:HH11	1.38	0.86
6:K:273:LYS:HG3	6:K:274:ARG:H	1.38	0.86
4:M:217:ILE:O	4:M:218:GLN:HB2	1.74	0.86
4:M:288:LEU:HD21	4:M:342:LEU:CD1	2.04	0.86
7:N:803:LYS:N	7:N:879:ASP:OD2	2.08	0.86
9:P:343:SER:O	9:P:348:GLU:HB2	1.76	0.86
11:R:381:GLN:O	11:R:384:SER:OG	1.94	0.86
12:S:165:ALA:CB	12:S:203:LEU:CD1	2.51	0.86
4:O:80:ILE:CG2	4:O:84:LYS:CE	2.53	0.86
10:4:46:LYS:O	10:4:50:ILE:N	2.09	0.86
14:8:25:ARG:NH2	15:9:70:ILE:HG22	1.91	0.86
18:AC:721:VAL:O	18:AC:725:SER:N	2.09	0.86
2:H:125:LEU:HD13	2:H:129:VAL:HG23	1.56	0.86
1:I:190:LEU:CD1	1:I:194:ILE:HD11	2.06	0.86
1:I:407:LEU:CD1	5:J:175:PHE:CE1	2.59	0.86
3:L:199:VAL:HG11	4:M:315:ASN:ND2	1.91	0.86
4:M:226:TYR:HB3	4:M:335:VAL:CG2	2.04	0.86
7:N:232:ILE:O	7:N:236:LEU:N	2.09	0.86
7:N:419:ALA:HB1	7:N:449:ILE:CD1	2.03	0.86
10:Q:236:PHE:CE2	10:Q:240:ASP:OD2	2.29	0.86
13:T:330:ILE:H	13:T:331:PRO:HD3	1.39	0.86
7:1:490:ARG:H	7:1:519:VAL:HG23	1.39	0.85
10:4:239:TYR:HA	10:4:242:ILE:CG2	2.06	0.85
11:5:51:ALA:HB3	11:5:52:PRO:HD3	1.56	0.85
12:S:328:VAL:HG13	12:S:329:HIS:H	1.39	0.85
4:O:342:LEU:O	4:O:348:LEU:HD11	1.74	0.85
7:1:35:TRP:HH2	12:6:273:LYS:CE	1.86	0.85
1:I:369:THR:HG22	1:I:399:CYS:SG	2.16	0.85
11:R:53:TYR:O	11:R:56:ALA:N	2.08	0.85
8:2:11:SER:HB2	8:2:22:TRP:CG	2.11	0.85
18:AC:668:ALA:HB2	18:AC:701:ASN:CB	2.06	0.85
5:J:148:TYR:HD1	5:J:202:ALA:HB1	1.41	0.85
5:J:228:ALA:HB1	5:J:233:GLU:OE2	1.74	0.85
3:L:49:ALA:HB1	4:M:136:VAL:HG11	1.57	0.85
8:O:348:GLY:O	8:O:352:ARG:HG3	1.75	0.85
11:R:228:MET:HE1	11:R:271:PHE:HE2	1.40	0.85
14:U:12:HIS:CD2	14:U:50:VAL:O	2.30	0.85
18:Z:667:GLY:O	18:Z:672:LEU:N	2.09	0.85
8:2:366:LEU:O	13:7:337:LYS:NZ	2.10	0.85
16:AA:53:THR:O	16:AA:59:GLU:N	2.09	0.85
2:H:111:TYR:OH	2:H:131:PRO:HA	1.76	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:212:PHE:HD1	4:M:217:ILE:HD11	0.69	0.85
11:R:228:MET:CE	11:R:271:PHE:HE2	1.89	0.85
17:Y:59:GLU:O	17:Y:63:HIS:N	2.09	0.85
4:0:217:ILE:O	4:0:218:GLN:HB2	1.74	0.85
10:4:236:PHE:CE2	10:4:240:ASP:OD2	2.29	0.85
1:I:287:ILE:HD11	1:I:331:THR:CG2	1.85	0.85
10:Q:251:LEU:HD11	10:Q:276:ALA:HB1	1.57	0.85
4:0:385:ALA:O	4:0:388:THR:OG1	1.95	0.85
4:0:399:VAL:N	4:0:427:VAL:HG21	1.89	0.85
8:2:4:VAL:HG13	8:2:26:GLU:OE2	1.77	0.85
9:3:274:VAL:HG11	9:3:287:VAL:CG2	2.05	0.85
14:8:72:HIS:CE1	14:8:111:LEU:CD1	2.47	0.85
6:K:275:PHE:HZ	6:K:289:LEU:HD12	1.36	0.85
3:L:338:PHE:HA	3:L:378:LYS:NZ	1.92	0.85
11:R:228:MET:HE3	11:R:263:LEU:HD22	1.56	0.85
14:U:25:ARG:NH2	15:V:70:ILE:HG22	1.91	0.85
16:W:53:THR:O	16:W:58:CYS:HA	1.75	0.85
4:0:399:VAL:HG23	4:0:427:VAL:HG11	1.58	0.85
7:1:148:LYS:NZ	7:1:179:TYR:CD2	2.45	0.85
24:G:5:GLN:HE22	25:X:4:GLY:HA2	1.38	0.85
2:H:196:LEU:O	2:H:198:PRO:HD3	1.76	0.85
6:K:163:MET:HG3	6:K:221:HIS:CE1	2.11	0.85
4:M:314:LEU:CD2	4:M:342:LEU:CD2	2.50	0.85
7:1:470:ASN:N	7:1:474:ARG:CB	2.39	0.85
8:2:35:HIS:HB2	16:AA:14:GLU:CD	1.96	0.85
11:5:21:GLN:CG	11:5:286:TRP:CE3	2.60	0.85
1:I:204:PRO:HG3	1:I:211:TYR:CE2	2.12	0.85
1:I:285:ASP:HA	1:I:330:ALA:HB3	1.59	0.85
1:I:356:PRO:CB	1:I:361:LYS:HG3	2.05	0.85
6:K:147:ALA:CB	6:K:249:ASP:OD2	2.25	0.85
3:L:129:ASN:O	3:L:189:SER:CB	2.24	0.85
3:L:195:PHE:HD1	3:L:229:ILE:CG2	1.88	0.85
3:L:195:PHE:CD1	3:L:229:ILE:HG21	2.10	0.85
1:I:290:ILE:CD1	1:I:309:MET:HG2	2.07	0.85
5:J:116:LEU:HD23	5:J:121:TYR:CD1	2.09	0.85
6:K:372:GLY:HA2	6:K:375:ILE:CD1	2.07	0.85
3:L:171:LEU:HD13	3:L:277:MET:HB3	1.59	0.85
4:M:402:GLU:OE1	4:M:427:VAL:HG22	1.77	0.85
8:O:4:VAL:HG23	8:O:26:GLU:OE2	1.77	0.85
4:0:150:LEU:CB	4:0:164:LEU:HB2	2.06	0.85
4:0:246:ALA:HB2	4:0:280:PRO:HG2	1.57	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:1:423:MET:CE	7:1:445:ALA:HB1	2.07	0.85
9:3:445:LEU:O	9:3:449:GLU:HG3	1.77	0.85
14:8:12:HIS:CD2	14:8:50:VAL:O	2.30	0.85
16:AA:25:ARG:HH12	16:AA:143:PHE:HB3	1.39	0.85
1:I:94:GLU:O	1:I:98:LYS:N	2.09	0.85
5:J:247:PHE:HE1	5:J:292:ILE:CG2	1.87	0.85
6:K:184:PRO:CB	6:K:191:TYR:CZ	2.58	0.85
3:L:305:ASN:H	3:L:308:ALA:HB3	1.39	0.85
4:M:384:LEU:CA	4:M:387:CYS:SG	2.63	0.85
8:O:35:HIS:HB2	16:W:14:GLU:CD	1.96	0.85
11:R:108:ALA:HB1	11:R:124:PHE:CE1	2.12	0.85
8:2:11:SER:HA	8:2:22:TRP:CG	2.12	0.84
9:3:343:SER:O	9:3:348:GLU:HB2	1.76	0.84
10:4:273:GLY:CA	10:4:277:LEU:HB2	2.07	0.84
10:4:397:TYR:CD2	11:5:365:GLN:CD	2.49	0.84
14:8:262:LEU:O	14:8:266:ILE:HG22	1.76	0.84
1:I:283:PHE:HD1	1:I:328:ILE:CG2	1.89	0.84
1:I:373:THR:HG22	1:I:413:LYS:CE	2.07	0.84
4:M:385:ALA:O	4:M:388:THR:OG1	1.95	0.84
8:O:11:SER:HB2	8:O:22:TRP:CG	2.12	0.84
18:Z:721:VAL:O	18:Z:725:SER:N	2.09	0.84
8:2:11:SER:HB2	8:2:22:TRP:CB	2.07	0.84
11:5:185:GLY:C	11:5:201:PHE:HZ	1.52	0.84
8:2:370:GLN:HB2	13:7:337:LYS:HD3	1.59	0.84
1:I:424:GLU:CG	1:I:428:TYR:CE2	2.60	0.84
6:K:154:LEU:O	6:K:155:THR:CG2	2.25	0.84
6:K:162:VAL:HG11	6:K:214:MET:HE2	1.58	0.84
3:L:284:THR:HA	4:M:297:ASP:OD1	1.76	0.84
8:O:132:LYS:CB	8:O:162:TYR:OH	2.25	0.84
12:S:463:MET:O	12:S:466:ILE:N	2.10	0.84
15:V:283:HIS:O	15:V:287:HIS:HB2	1.76	0.84
4:O:212:PHE:HD1	4:O:217:ILE:HD11	0.69	0.84
11:5:134:LEU:HD13	11:5:138:LEU:CG	2.07	0.84
5:J:114:VAL:CG1	5:J:126:ILE:CG2	2.52	0.84
6:K:176:GLU:HG3	6:K:331:ILE:CD1	2.08	0.84
3:L:182:LEU:HD22	33:L:401:ADP:H3'	1.60	0.84
3:L:238:ILE:HD11	3:L:257:LEU:N	1.91	0.84
4:M:150:LEU:CB	4:M:164:LEU:HB2	2.06	0.84
8:O:240:PHE:O	8:O:275:LEU:HD13	1.78	0.84
8:O:284:ARG:NH1	8:O:291:LEU:HD23	1.90	0.84
10:Q:248:ILE:CG2	10:Q:283:GLN:OE1	2.25	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:T:345:GLN:O	13:T:349:ILE:CD1	2.24	0.84
18:Z:259:PHE:O	18:Z:261:ARG:HA	1.77	0.84
15:9:255:TYR:HA	15:9:280:PRO:HG2	1.59	0.84
1:I:271:PHE:HB3	1:I:322:ARG:NH2	1.91	0.84
5:J:116:LEU:CD2	5:J:121:TYR:HD1	1.88	0.84
4:M:407:ALA:HB3	4:M:415:LEU:HD22	1.58	0.84
10:Q:273:GLY:HA2	10:Q:277:LEU:CG	2.08	0.84
8:2:73:PRO:CB	8:2:110:ALA:HB2	2.08	0.84
12:6:473:GLN:HE21	14:8:253:THR:HG21	1.41	0.84
2:H:166:VAL:HG12	2:H:237:PHE:O	1.77	0.84
1:I:116:ILE:HB	1:I:118:ASP:OD1	1.76	0.84
1:I:398:ILE:CG2	1:I:419:PHE:CD1	2.54	0.84
5:J:147:THR:HG23	5:J:150:MET:HE2	1.60	0.84
7:N:696:ILE:HG12	7:N:737:LEU:HA	1.58	0.84
9:P:384:LEU:HD13	9:P:388:GLU:HB3	1.59	0.84
13:T:330:ILE:HG22	13:T:334:GLU:OE1	1.74	0.84
16:W:52:ILE:O	16:W:52:ILE:CG1	2.25	0.84
4:0:402:GLU:OE1	4:0:427:VAL:CG2	2.26	0.84
8:2:338:PRO:HB2	14:8:231:GLN:OE1	1.78	0.84
11:5:183:TYR:CZ	11:5:213:LEU:HD11	2.12	0.84
1:I:398:ILE:HG22	1:I:419:PHE:CE1	2.13	0.84
1:I:401:GLU:HG2	1:I:422:SER:CA	2.07	0.84
5:J:137:LEU:HD13	5:J:224:ILE:HD12	1.59	0.84
5:J:189:TYR:CE1	5:J:316:GLU:HB3	2.13	0.84
3:L:84:ARG:O	3:L:85:ARG:CG	2.23	0.84
4:M:342:LEU:O	4:M:348:LEU:HD11	1.74	0.84
4:M:228:PRO:CG	4:M:356:MET:HG3	2.02	0.84
7:N:697:GLN:NE2	7:N:742:HIS:O	2.11	0.84
10:Q:239:TYR:HA	10:Q:242:ILE:CG2	2.06	0.84
11:R:318:TYR:O	11:R:321:GLU:CG	2.26	0.84
18:Z:668:ALA:HB2	18:Z:701:ASN:CB	2.06	0.84
4:0:249:LEU:O	4:0:283:ILE:HA	1.78	0.84
4:0:80:ILE:HG23	4:0:84:LYS:CD	2.01	0.84
11:5:179:ARG:HB3	11:5:210:SER:OG	1.78	0.84
11:5:225:TYR:CZ	11:5:278:VAL:HG11	2.12	0.84
5:J:72:TYR:HE2	5:J:121:TYR:OH	1.41	0.84
5:J:273:MET:HE1	5:J:305:LEU:CD2	2.07	0.84
11:R:179:ARG:HB3	11:R:210:SER:OG	1.78	0.84
11:R:208:PHE:HD2	11:R:216:TYR:HD1	1.24	0.84
4:0:288:LEU:O	4:0:292:GLY:N	2.11	0.84
1:I:112:LEU:O	1:I:147:GLY:HA2	1.78	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:J:72:TYR:CD2	5:J:121:TYR:CE1	2.65	0.84
5:J:151:ILE:CG2	5:J:154:LEU:HD12	2.08	0.84
6:K:151:ILE:HG22	6:K:152:MET:H	1.42	0.84
6:K:212:LYS:HA	6:K:333:PHE:HE2	1.43	0.84
3:L:122:MET:O	3:L:196:LEU:HA	1.77	0.84
4:M:251:LEU:HD21	4:M:256:LEU:HD21	1.60	0.84
8:O:11:SER:HB2	8:O:22:TRP:HB3	1.59	0.84
8:O:366:LEU:O	13:T:337:LYS:NZ	2.10	0.84
10:Q:2:ALA:HB2	10:Q:34:ASP:H	1.43	0.84
11:R:21:GLN:CG	11:R:286:TRP:CE3	2.60	0.84
15:V:240:HIS:O	15:V:244:VAL:CB	2.24	0.84
16:W:53:THR:O	16:W:59:GLU:N	2.09	0.84
11:5:118:GLU:HA	11:5:121:LEU:HD12	1.60	0.84
11:5:318:TYR:O	11:5:321:GLU:CG	2.26	0.84
17:AB:16:ASP:CB	17:AB:17:ASP:HA	2.08	0.84
18:AC:259:PHE:O	18:AC:261:ARG:HA	1.77	0.84
2:H:387:SER:OG	2:H:416:VAL:HG11	1.78	0.84
5:J:161:ILE:HG21	5:J:203:VAL:HG21	1.60	0.84
5:J:86:LEU:HD23	5:J:96:VAL:HG21	1.57	0.84
4:M:249:LEU:O	4:M:283:ILE:HA	1.78	0.84
7:N:423:MET:CE	7:N:445:ALA:HB1	2.07	0.84
6:K:191:TYR:CD1	6:K:198:PRO:HB3	2.13	0.84
3:L:363:VAL:HG22	3:L:364:GLN:N	1.92	0.84
11:R:108:ALA:HB3	11:R:124:PHE:CE1	2.12	0.84
4:O:402:GLU:OE1	4:O:427:VAL:HG22	1.77	0.83
1:I:144:LEU:HD21	1:I:162:VAL:HG22	1.60	0.83
5:J:162:LYS:HG2	5:J:166:GLU:OE1	1.76	0.83
6:K:292:LEU:O	6:K:296:MET:CB	2.23	0.83
3:L:164:ILE:HD13	6:K:383:GLY:HA3	1.59	0.83
4:M:402:GLU:OE1	4:M:427:VAL:CG2	2.26	0.83
11:R:118:GLU:HA	11:R:121:LEU:HD12	1.60	0.83
11:R:134:LEU:HD13	11:R:138:LEU:CG	2.07	0.83
13:T:339:VAL:HG13	15:V:296:ILE:HG23	1.60	0.83
9:3:48:LEU:HD21	9:3:90:LEU:HD11	1.59	0.83
10:4:66:LEU:CB	10:4:109:LEU:HD11	2.08	0.83
11:5:108:ALA:HB2	11:5:123:ALA:CB	2.08	0.83
5:J:24:TYR:O	5:J:25:LEU:C	2.17	0.83
6:K:109:SER:HB2	6:K:111:TYR:CZ	2.13	0.83
3:L:258:MET:SD	6:K:266:GLU:HG2	2.17	0.83
7:N:148:LYS:NZ	7:N:179:TYR:CD2	2.45	0.83
10:Q:273:GLY:CA	10:Q:277:LEU:HB2	2.07	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:R:108:ALA:HB2	11:R:123:ALA:CB	2.08	0.83
11:R:225:TYR:CZ	11:R:278:VAL:HG11	2.12	0.83
8:2:132:LYS:CB	8:2:162:TYR:OH	2.25	0.83
10:4:248:ILE:CG2	10:4:283:GLN:OE1	2.25	0.83
11:5:381:GLN:O	11:5:384:SER:OG	1.94	0.83
12:6:215:ALA:O	12:6:218:TYR:HB2	1.79	0.83
14:8:40:LEU:HD11	14:8:91:ILE:CD1	2.08	0.83
16:AA:52:ILE:O	16:AA:52:ILE:CG1	2.25	0.83
2:H:172:VAL:HG11	2:H:224:LEU:CD2	2.06	0.83
1:I:107:MET:HE1	1:I:160:ILE:HB	1.60	0.83
5:J:307:ARG:HH11	5:J:307:ARG:HB3	1.36	0.83
4:M:89:LEU:HD11	4:M:128:THR:HG23	1.60	0.83
8:O:11:SER:HA	8:O:22:TRP:CG	2.12	0.83
11:R:183:TYR:CZ	11:R:213:LEU:HD11	2.12	0.83
12:S:215:ALA:O	12:S:218:TYR:HB2	1.79	0.83
4:0:146:LYS:HE2	4:0:149:ASP:OD2	1.79	0.83
4:0:80:ILE:CG2	4:0:84:LYS:HD2	2.04	0.83
10:4:202:CYS:CB	10:4:203:PRO:HA	2.04	0.83
10:4:411:VAL:CG1	10:4:415:TYR:CE2	2.58	0.83
7:1:35:TRP:CZ3	12:6:273:LYS:CD	2.59	0.83
1:I:250:VAL:HG23	1:I:270:LEU:HD13	1.60	0.83
5:J:31:LEU:CA	5:J:34:ILE:HD12	2.06	0.83
6:K:249:ASP:OD1	6:K:252:ARG:NH1	2.11	0.83
4:M:169:ASP:HB2	4:M:172:VAL:CG2	2.09	0.83
4:M:399:VAL:HG23	4:M:427:VAL:HG11	1.58	0.83
9:P:445:LEU:O	9:P:449:GLU:HG3	1.77	0.83
9:P:48:LEU:HD21	9:P:90:LEU:HD11	1.59	0.83
18:Z:800:LEU:O	18:Z:804:LEU:CB	2.27	0.83
4:0:373:MET:HE1	4:0:415:LEU:CD1	2.07	0.83
10:4:302:PHE:CB	10:4:330:LEU:HD13	2.08	0.83
15:9:240:HIS:O	15:9:244:VAL:HB	1.79	0.83
2:H:102:ILE:CD1	2:H:120:LYS:HD3	2.04	0.83
5:J:360:LYS:O	5:J:364:THR:HG23	1.79	0.83
5:J:86:LEU:HD22	5:J:96:VAL:CG2	2.04	0.83
6:K:83:GLN:O	6:K:87:LEU:HD21	1.78	0.83
6:K:88:VAL:O	6:K:132:LEU:HB2	1.78	0.83
4:M:146:LYS:HE2	4:M:149:ASP:OD2	1.79	0.83
4:M:237:ALA:HB2	4:M:284:PHE:CE2	2.13	0.83
10:Q:66:LEU:CB	10:Q:109:LEU:HD11	2.08	0.83
10:Q:302:PHE:CB	10:Q:330:LEU:HD13	2.08	0.83
11:R:229:ILE:CG1	11:R:295:TYR:CZ	2.61	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:T:120:LYS:C	13:T:124:LEU:HB2	1.99	0.83
13:T:163:SER:O	13:T:166:ARG:HB2	1.79	0.83
8:O:338:PRO:HB2	14:U:231:GLN:OE1	1.78	0.83
7:1:360:VAL:HG12	7:1:361:ARG:H	1.44	0.83
7:1:697:GLN:NE2	7:1:742:HIS:O	2.11	0.83
9:3:390:GLU:OE2	9:3:408:ARG:NH2	2.12	0.83
6:K:359:ASP:C	6:K:361:GLU:H	1.82	0.83
6:K:354:LEU:HD11	6:K:394:VAL:HB	1.60	0.83
4:M:80:ILE:HG23	4:M:84:LYS:CD	2.01	0.83
7:N:35:TRP:CZ3	12:S:273:LYS:CD	2.59	0.83
8:2:284:ARG:NH1	8:2:291:LEU:HD23	1.90	0.83
10:4:273:GLY:HA2	10:4:277:LEU:CG	2.08	0.83
11:5:344:HIS:CE1	11:5:359:PRO:HB3	2.14	0.83
2:H:125:LEU:CD1	2:H:129:VAL:HG23	2.08	0.83
5:J:151:ILE:CD1	5:J:198:LEU:HD23	1.81	0.83
11:R:229:ILE:CD1	11:R:295:TYR:CZ	2.61	0.83
12:S:473:GLN:HE21	14:U:253:THR:HG21	1.41	0.83
4:O:237:ALA:HB2	4:O:284:PHE:CE2	2.13	0.83
7:1:885:MET:O	7:1:889:LEU:CG	2.26	0.83
8:2:11:SER:HB2	8:2:22:TRP:HB3	1.58	0.83
8:2:240:PHE:O	8:2:275:LEU:HD13	1.78	0.83
9:3:384:LEU:HD13	9:3:388:GLU:HB3	1.59	0.83
11:5:183:TYR:HE1	11:5:213:LEU:CD1	1.87	0.83
12:6:472:PRO:CB	12:6:476:PHE:HE2	1.91	0.83
18:AC:388:ASP:O	18:AC:392:THR:N	2.11	0.83
5:J:228:ALA:CB	5:J:233:GLU:OE2	2.26	0.83
5:J:280:LEU:HA	5:J:284:GLU:HG2	1.59	0.83
5:J:90:HIS:CB	5:J:91:PRO:HD3	2.07	0.83
6:K:205:TYR:HD2	6:K:314:ALA:CB	1.90	0.83
3:L:235:ILE:HG13	3:L:278:ALA:O	1.78	0.83
4:M:310:MET:CE	4:M:339:ASP:HB2	2.09	0.83
7:N:147:TYR:O	7:N:151:ILE:N	2.12	0.83
7:N:397:THR:H	7:N:400:ALA:HB3	1.43	0.83
10:Q:256:LEU:CD2	10:Q:319:ILE:HD12	2.08	0.83
14:U:256:GLN:HG2	15:V:295:ASN:HD21	1.43	0.83
15:V:88:ASP:OD1	15:V:89:PRO:HD2	1.79	0.83
4:O:235:LEU:HD11	33:O:501:ADP:H2'	1.60	0.83
7:1:142:LEU:O	7:1:145:HIS:CG	2.32	0.83
10:4:256:LEU:CD2	10:4:319:ILE:HD12	2.08	0.83
13:7:330:ILE:H	13:7:331:PRO:HD3	1.39	0.83
19:B:120:ASP:OD1	20:C:83:ARG:NH1	2.12	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:125:LEU:HD12	2:H:126:SER:O	1.79	0.83
2:H:220:THR:HG21	2:H:343:PHE:CB	2.06	0.83
1:I:339:PRO:HB3	2:H:425:ALA:HB3	1.54	0.83
5:J:286:THR:O	5:J:287:LYS:HB2	1.75	0.83
6:K:383:GLY:O	6:K:387:VAL:HG23	1.79	0.83
6:K:70:LYS:O	6:K:73:LEU:HD12	1.79	0.83
2:H:209:PRO:CD	4:M:405:MET:SD	2.66	0.83
7:N:885:MET:O	7:N:889:LEU:CG	2.26	0.83
8:O:11:SER:HB2	8:O:22:TRP:CB	2.09	0.83
9:P:154:GLU:HB3	9:P:158:ASP:HB3	1.58	0.83
12:S:472:PRO:CB	12:S:476:PHE:HE2	1.91	0.83
8:O:370:GLN:HB2	13:T:337:LYS:HD3	1.59	0.83
4:O:169:ASP:HB2	4:O:172:VAL:CG2	2.09	0.83
7:1:232:ILE:O	7:1:236:LEU:N	2.09	0.83
5:J:247:PHE:CE1	5:J:292:ILE:HG21	2.13	0.83
6:K:372:GLY:HA2	6:K:375:ILE:HD13	1.58	0.83
9:P:153:LYS:HE2	9:P:162:ALA:HA	1.61	0.83
10:Q:202:CYS:CB	10:Q:203:PRO:HA	2.04	0.83
15:V:116:PRO:O	15:V:118:PHE:CE1	2.32	0.83
16:W:142:ASN:O	16:W:173:VAL:N	2.12	0.83
13:7:163:SER:O	13:7:166:ARG:HB2	1.79	0.82
13:7:339:VAL:HG13	15:9:296:ILE:HG23	1.60	0.82
2:H:119:ALA:HB1	4:M:127:SER:CB	2.08	0.82
2:H:254:ALA:O	2:H:258:ARG:CG	2.27	0.82
1:I:170:LEU:CD1	1:I:269:GLU:CB	2.56	0.82
5:J:151:ILE:HD13	5:J:198:LEU:HB3	1.60	0.82
3:L:104:THR:HG21	15:V:50:PRO:CB	2.08	0.82
3:L:119:VAL:O	3:L:123:SER:HB2	1.79	0.82
4:M:288:LEU:O	4:M:292:GLY:N	2.11	0.82
4:M:235:LEU:HD11	33:M:501:ADP:H2'	1.60	0.82
10:4:114:ILE:CG1	10:4:129:LEU:HD22	2.09	0.82
10:4:212:MET:CG	10:4:235:ALA:CB	2.57	0.82
12:6:326:GLN:HE21	12:6:356:SER:CB	1.92	0.82
2:H:273:PHE:HE2	2:H:275:ASP:HB2	1.42	0.82
5:J:137:LEU:HD12	5:J:220:VAL:HG13	1.53	0.82
3:L:184:ALA:CB	3:L:231:PHE:CZ	2.62	0.82
3:L:325:GLU:OE1	3:L:364:GLN:CG	2.27	0.82
3:L:350:ALA:HB1	3:L:366:ASP:O	1.78	0.82
4:O:251:LEU:HD21	4:O:256:LEU:HD21	1.60	0.82
4:O:256:LEU:HD12	4:O:291:ILE:HD13	1.62	0.82
4:O:310:MET:CE	4:O:339:ASP:HB2	2.09	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:5:225:TYR:CZ	11:5:278:VAL:CG1	2.63	0.82
14:8:215:VAL:C	14:8:220:LEU:CB	2.48	0.82
16:AA:16:MET:CG	16:AA:29:GLN:NE2	2.42	0.82
6:K:115:ILE:CD1	6:K:121:ARG:HH12	1.87	0.82
10:Q:183:LEU:HD11	10:Q:220:ALA:HB3	1.57	0.82
10:Q:212:MET:CG	10:Q:235:ALA:CB	2.57	0.82
12:S:326:GLN:HE21	12:S:356:SER:CB	1.92	0.82
14:U:25:ARG:HH22	15:V:70:ILE:HG22	1.44	0.82
18:Z:501:LEU:O	18:Z:505:MET:N	2.10	0.82
14:8:25:ARG:HH22	15:9:70:ILE:HG22	1.44	0.82
15:9:116:PRO:O	15:9:118:PHE:CE1	2.32	0.82
18:AC:800:LEU:O	18:AC:804:LEU:CB	2.27	0.82
2:H:114:ASN:HB3	2:H:120:LYS:HG2	1.61	0.82
5:J:222:LYS:HB3	6:K:286:GLN:HE22	1.45	0.82
4:M:256:LEU:HD12	4:M:291:ILE:HD13	1.62	0.82
7:N:100:ILE:O	7:N:104:CYS:SG	2.37	0.82
7:N:142:LEU:O	7:N:145:HIS:CG	2.32	0.82
6:K:60:TYR:OH	7:N:640:LEU:HD21	1.79	0.82
10:Q:222:GLU:HG3	10:Q:225:TRP:CH2	2.14	0.82
11:R:117:LYS:O	11:R:121:LEU:HG	1.80	0.82
11:R:123:ALA:O	11:R:127:THR:HG23	1.80	0.82
16:W:16:MET:CG	16:W:29:GLN:NE2	2.42	0.82
7:1:148:LYS:HE3	7:1:179:TYR:HD2	1.45	0.82
11:5:300:ARG:NH2	11:5:337:PHE:HZ	1.78	0.82
15:9:88:ASP:OD1	15:9:89:PRO:HD2	1.79	0.82
18:AC:367:SER:O	18:AC:371:ASN:N	2.12	0.82
2:H:151:ILE:HG22	2:H:152:PRO:HD2	1.59	0.82
2:H:174:TYR:CE2	2:H:184:ILE:HG23	2.15	0.82
2:H:190:VAL:HG11	2:H:212:VAL:HG23	1.56	0.82
6:K:391:ARG:HH12	6:K:395:LEU:CD1	1.93	0.82
3:L:143:ARG:O	3:L:147:GLU:CD	2.18	0.82
4:M:342:LEU:O	4:M:348:LEU:HD12	1.78	0.82
14:U:94:TRP:HZ2	14:U:109:ASN:CG	1.81	0.82
15:V:240:HIS:O	15:V:244:VAL:HB	1.79	0.82
18:Z:367:SER:O	18:Z:371:ASN:N	2.12	0.82
4:0:342:LEU:O	4:0:348:LEU:HD12	1.78	0.82
7:1:397:THR:H	7:1:400:ALA:HB3	1.43	0.82
9:3:154:GLU:CB	9:3:158:ASP:HB3	2.10	0.82
11:5:120:ALA:O	11:5:124:PHE:CD2	2.32	0.82
11:5:123:ALA:O	11:5:127:THR:HG23	1.80	0.82
2:H:242:GLY:HA2	2:H:280:ILE:HG12	1.62	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:227:PRO:HG2	1:I:355:LEU:HD21	1.59	0.82
6:K:143:LEU:HB3	6:K:146:GLU:OE2	1.80	0.82
6:K:394:VAL:HG12	6:K:395:LEU:N	1.92	0.82
18:Z:323:ASN:O	18:Z:332:ALA:O	1.97	0.82
4:O:90:VAL:CG2	4:O:127:SER:OG	2.27	0.82
7:1:419:ALA:HB1	7:1:449:ILE:CD1	2.03	0.82
12:6:482:PHE:CE1	12:6:486:ILE:HD11	2.15	0.82
13:7:329:THR:O	13:7:333:THR:OG1	1.98	0.82
15:9:248:MET:HE2	15:9:284:LEU:CD2	2.09	0.82
16:AA:142:ASN:O	16:AA:173:VAL:N	2.12	0.82
6:K:230:VAL:HG11	6:K:235:PHE:CE1	2.13	0.82
3:L:317:ALA:HB2	3:L:347:CYS:SG	2.19	0.82
3:L:326:ILE:CG2	3:L:328:TYR:CE2	2.60	0.82
7:N:195:ASN:HB3	7:N:199:ARG:HH12	1.44	0.82
8:O:274:LEU:HD11	8:O:319:LEU:CD1	2.10	0.82
11:R:344:HIS:CE1	11:R:359:PRO:HB3	2.14	0.82
7:1:195:ASN:HB3	7:1:199:ARG:HH12	1.44	0.82
9:3:408:ARG:O	9:3:410:ALA:N	2.13	0.82
5:J:138:MET:HE1	5:J:143:VAL:HG22	1.62	0.82
6:K:210:CYS:SG	6:K:335:LEU:HA	2.18	0.82
6:K:210:CYS:SG	6:K:335:LEU:HD22	2.20	0.82
6:K:275:PHE:HZ	6:K:289:LEU:CD1	1.91	0.82
3:L:145:LEU:CD1	3:L:149:ILE:HD11	2.09	0.82
3:L:205:ASP:HB2	3:L:210:GLU:CG	2.09	0.82
4:M:90:VAL:CG2	4:M:127:SER:OG	2.27	0.82
9:P:390:GLU:OE2	9:P:408:ARG:NH2	2.12	0.82
11:R:229:ILE:HD13	11:R:299:MET:SD	2.20	0.82
14:U:131:LEU:HD11	14:U:199:LYS:CD	2.10	0.82
14:U:17:LEU:HD12	15:V:39:LEU:HD12	1.62	0.82
17:Y:16:ASP:CB	17:Y:17:ASP:HA	2.08	0.82
18:Z:388:ASP:O	18:Z:392:THR:N	2.11	0.82
4:O:89:LEU:HD11	4:O:128:THR:HG23	1.60	0.82
2:H:164:MET:SD	2:H:240:VAL:HG22	2.19	0.82
2:H:299:MET:HE1	2:H:303:ILE:HD11	1.61	0.82
1:I:180:PRO:CD	1:I:241:ASN:HA	2.08	0.82
3:L:238:ILE:CD1	3:L:257:LEU:N	2.43	0.82
3:L:61:LEU:HD11	3:L:78:ARG:CG	2.10	0.82
10:Q:258:LYS:HE3	10:Q:266:ASP:CB	2.09	0.82
14:8:94:TRP:HZ2	14:8:109:ASN:CG	1.81	0.82
15:9:29:GLU:OE2	15:9:139:ARG:NH2	2.13	0.82
2:H:126:SER:N	2:H:149:ILE:O	2.13	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:J:189:TYR:HE2	5:J:316:GLU:CG	1.89	0.82
6:K:200:ARG:HH22	6:K:299:PHE:CB	1.92	0.82
6:K:367:PRO:O	6:K:369:LYS:N	2.12	0.82
3:L:58:GLY:HA2	3:L:74:THR:HG23	0.85	0.82
11:R:229:ILE:CD1	11:R:295:TYR:CE1	2.62	0.82
12:S:482:PHE:CE1	12:S:486:ILE:HD11	2.15	0.82
13:T:254:GLU:CG	13:T:255:SER:H	1.93	0.82
4:0:142:ALA:O	4:0:145:LEU:CB	2.28	0.81
12:6:488:ASN:OD1	13:7:349:ILE:HG23	1.80	0.81
12:6:473:GLN:HE21	14:8:253:THR:CG2	1.92	0.81
17:AB:12:LEU:O	17:AB:15:GLU:O	1.98	0.81
1:I:175:LYS:HE3	1:I:277:HIS:CE1	2.15	0.81
5:J:214:VAL:HG11	5:J:234:LEU:HD22	1.62	0.81
5:J:77:VAL:CB	5:J:86:LEU:HD12	2.09	0.81
6:K:168:GLY:O	33:K:501:ADP:N6	2.11	0.81
6:K:93:LEU:HD11	6:K:94:GLU:HG3	1.55	0.81
9:3:146:THR:HG21	9:3:169:LEU:CD1	2.10	0.81
10:4:82:LYS:HB3	10:4:122:ARG:HH21	1.44	0.81
11:5:208:PHE:HD2	11:5:216:TYR:HD1	1.24	0.81
14:8:17:LEU:HD12	15:9:39:LEU:HD12	1.62	0.81
2:H:99:THR:HG23	2:H:142:VAL:CG2	2.09	0.81
5:J:47:ALA:O	5:J:51:GLU:N	2.10	0.81
3:L:363:VAL:HG22	3:L:365:GLU:H	1.44	0.81
10:4:148:HIS:CE1	10:4:152:GLN:NE2	2.48	0.81
10:4:222:GLU:HG3	10:4:225:TRP:CH2	2.14	0.81
10:4:57:LEU:O	10:4:59:LYS:N	2.13	0.81
12:6:231:LEU:HB3	12:6:250:LEU:CD1	2.11	0.81
14:8:94:TRP:HD1	14:8:112:MET:CG	1.94	0.81
2:H:224:LEU:HD23	2:H:227:ARG:HH11	1.44	0.81
2:H:277:ILE:HD11	2:H:321:THR:HB	1.60	0.81
1:I:107:MET:HE2	1:I:151:LEU:HD22	1.59	0.81
4:M:294:LYS:HA	4:M:339:ASP:CG	2.00	0.81
9:P:68:VAL:O	9:P:71:VAL:HG22	1.80	0.81
10:Q:340:GLU:HB2	10:Q:341:PRO:HD3	1.63	0.81
14:U:23:PHE:HD2	14:U:126:VAL:HG21	1.45	0.81
4:0:121:CYS:HB3	4:0:133:PHE:CE1	2.16	0.81
4:0:399:VAL:CG2	4:0:427:VAL:CB	2.58	0.81
7:1:788:VAL:H	7:1:881:PRO:HA	1.46	0.81
11:5:185:GLY:CA	11:5:201:PHE:CZ	2.64	0.81
14:8:256:GLN:HG2	15:9:295:ASN:HD21	1.43	0.81
5:J:72:TYR:CD2	5:J:121:TYR:HE1	1.98	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:J:65:LEU:HD12	5:J:68:GLU:CD	2.00	0.81
6:K:244:PRO:CA	6:K:291:GLU:HG3	2.10	0.81
3:L:381:GLU:HB3	3:L:384:LEU:HD21	1.62	0.81
4:M:121:CYS:HB3	4:M:133:PHE:CE1	2.16	0.81
4:M:375:VAL:HG12	4:M:376:SER:N	1.96	0.81
4:M:399:VAL:CG2	4:M:427:VAL:CB	2.58	0.81
8:O:327:VAL:HG21	9:P:412:ILE:HG12	1.62	0.81
10:Q:114:ILE:CG1	10:Q:129:LEU:HD22	2.09	0.81
10:Q:148:HIS:CE1	10:Q:152:GLN:NE2	2.48	0.81
12:S:473:GLN:HE21	14:U:253:THR:CG2	1.92	0.81
15:V:255:TYR:HA	15:V:280:PRO:HG2	1.59	0.81
15:V:29:GLU:OE2	15:V:139:ARG:NH2	2.13	0.81
9:3:68:VAL:O	9:3:71:VAL:HG22	1.80	0.81
10:4:127:GLN:NE2	10:4:156:GLU:O	2.13	0.81
18:AC:345:PRO:O	18:AC:349:TYR:N	2.12	0.81
1:I:232:LYS:CA	1:I:353:PHE:CE2	2.63	0.81
1:I:278:ALA:HB1	1:I:279:PRO:CD	2.11	0.81
6:K:151:ILE:HG22	6:K:152:MET:N	1.94	0.81
3:L:216:ARG:NH2	3:L:259:GLU:OE2	2.12	0.81
9:P:154:GLU:CB	9:P:158:ASP:HB3	2.10	0.81
14:U:94:TRP:HD1	14:U:112:MET:CG	1.94	0.81
18:Z:345:PRO:O	18:Z:349:TYR:N	2.12	0.81
4:0:91:SER:HB2	4:0:124:ILE:HG22	1.63	0.81
4:0:284:PHE:HD1	4:0:285:ILE:N	1.79	0.81
20:C:191:ILE:HG21	20:C:229:LEU:HD23	1.60	0.81
24:G:5:GLN:NE2	25:X:4:GLY:HA2	1.95	0.81
2:H:319:MET:SD	2:H:337:LEU:HD11	2.20	0.81
2:H:411:GLU:O	2:H:415:LYS:N	2.13	0.81
1:I:106:PRO:CG	5:J:121:TYR:HB2	2.10	0.81
1:I:227:PRO:HD2	1:I:355:LEU:CD2	2.10	0.81
5:J:58:LEU:HG	7:N:644:TYR:HA	1.62	0.81
6:K:162:VAL:CG1	6:K:214:MET:HE3	2.11	0.81
6:K:237:GLN:HE22	6:K:242:GLU:HG2	1.46	0.81
6:K:248:ARG:O	6:K:252:ARG:HB2	1.79	0.81
5:J:222:LYS:CB	6:K:286:GLN:HE22	1.93	0.81
4:M:91:SER:O	4:M:151:VAL:HG22	1.81	0.81
7:N:360:VAL:HG22	7:N:361:ARG:H	1.44	0.81
10:Q:236:PHE:HE1	10:Q:251:LEU:HG	1.43	0.81
10:Q:9:PHE:O	10:Q:13:GLN:N	2.13	0.81
11:R:183:TYR:HE1	11:R:213:LEU:CD1	1.87	0.81
4:0:294:LYS:HA	4:0:339:ASP:CG	2.00	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:1:100:ILE:O	7:1:104:CYS:SG	2.37	0.81
11:5:117:LYS:O	11:5:121:LEU:HG	1.80	0.81
13:7:254:GLU:CG	13:7:255:SER:H	1.93	0.81
18:AC:501:LEU:O	18:AC:505:MET:N	2.10	0.81
2:H:90:GLU:CA	2:H:93:LEU:HD23	2.06	0.81
1:I:283:PHE:HE1	1:I:328:ILE:CG2	1.93	0.81
1:I:234:LEU:HG	33:I:501:ADP:H2'	1.62	0.81
5:J:219:LEU:HD23	6:K:286:GLN:HG2	1.63	0.81
3:L:338:PHE:CZ	3:L:375:ALA:CA	2.61	0.81
3:L:312:ILE:HD13	33:L:401:ADP:N6	1.95	0.81
3:L:253:ILE:HG13	4:M:308:ARG:NH2	1.95	0.81
11:R:225:TYR:CZ	11:R:278:VAL:CG1	2.63	0.81
10:4:273:GLY:C	10:4:277:LEU:HB2	2.01	0.81
12:6:256:ARG:NH2	17:AB:13:LEU:O	2.14	0.81
5:J:114:VAL:HG13	5:J:126:ILE:HG23	1.61	0.81
3:L:326:ILE:HG21	3:L:328:TYR:CD2	2.16	0.81
10:Q:82:LYS:HB3	10:Q:122:ARG:HH21	1.44	0.81
7:N:35:TRP:HH2	12:S:273:LYS:CE	1.86	0.81
12:S:326:GLN:HE21	12:S:356:SER:HB3	1.45	0.81
15:V:150:SER:OG	15:V:156:VAL:HG12	1.81	0.81
16:W:157:VAL:HG11	16:W:170:LEU:HB2	1.62	0.81
16:W:16:MET:HB3	16:W:26:LEU:HB2	1.63	0.81
16:W:54:LEU:CA	16:W:85:THR:CB	2.59	0.81
7:1:147:TYR:O	7:1:151:ILE:N	2.12	0.81
14:8:23:PHE:CD2	14:8:126:VAL:CB	2.63	0.81
15:9:267:PRO:CD	15:9:268:GLU:OE1	2.28	0.81
6:K:176:GLU:HG2	6:K:331:ILE:CD1	2.10	0.81
6:K:408:LYS:O	6:K:410:ASP:N	2.13	0.81
9:P:146:THR:HG21	9:P:169:LEU:CD1	2.10	0.81
9:P:443:THR:HG21	14:U:204:LYS:HD2	1.63	0.81
10:Q:411:VAL:CG1	10:Q:415:TYR:CE2	2.58	0.81
12:S:469:THR:O	12:S:473:GLN:HG3	1.81	0.81
14:U:215:VAL:C	14:U:220:LEU:CB	2.48	0.81
15:V:53:VAL:CG1	15:V:77:GLN:HE22	1.92	0.81
7:1:902:PRO:HA	7:1:915:LYS:HB3	1.63	0.81
11:5:229:ILE:CD1	11:5:295:TYR:OH	2.28	0.81
13:7:120:LYS:C	13:7:124:LEU:HB2	1.99	0.81
2:H:258:ARG:HD3	2:H:305:GLN:NE2	1.93	0.81
1:I:373:THR:HG22	1:I:413:LYS:HE2	1.63	0.81
6:K:96:VAL:CG2	6:K:112:TYR:CE1	2.64	0.81
6:K:162:VAL:HG11	6:K:214:MET:CE	2.08	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:155:ASN:N	3:L:156:PRO:CD	2.43	0.81
13:T:116:LEU:CD2	13:T:147:ILE:HG21	2.11	0.81
17:Y:12:LEU:O	17:Y:15:GLU:O	1.98	0.81
4:0:142:ALA:O	4:0:145:LEU:HB2	1.81	0.81
4:0:180:ARG:CZ	4:0:241:ALA:O	2.29	0.81
9:3:274:VAL:CG1	9:3:287:VAL:HG23	2.09	0.81
8:2:327:VAL:HG21	9:3:412:ILE:HG12	1.62	0.81
10:4:258:LYS:HE3	10:4:266:ASP:CB	2.09	0.81
13:7:116:LEU:CD2	13:7:147:ILE:HG21	2.11	0.81
16:AA:16:MET:HB3	16:AA:26:LEU:HB2	1.63	0.81
1:I:390:LEU:HD13	1:I:395:ILE:HG13	1.62	0.81
5:J:189:TYR:CE1	5:J:298:ILE:HD11	2.15	0.81
5:J:189:TYR:CE2	5:J:316:GLU:CB	2.62	0.81
6:K:190:LEU:O	6:K:196:ILE:HD12	1.80	0.81
6:K:263:PHE:HE1	6:K:265:ASP:HB2	1.46	0.81
7:N:148:LYS:HE3	7:N:179:TYR:HD2	1.45	0.81
11:R:300:ARG:NH2	11:R:337:PHE:HZ	1.78	0.81
4:0:141:ASP:OD2	4:0:144:LYS:NZ	2.14	0.80
8:2:274:LEU:HD11	8:2:319:LEU:CD1	2.10	0.80
9:3:209:ILE:CG2	9:3:226:TYR:CZ	2.57	0.80
10:4:340:GLU:HB2	10:4:341:PRO:HD3	1.63	0.80
2:H:324:PRO:HD2	2:H:432:TYR:CD1	2.16	0.80
2:H:353:HIS:O	2:H:357:ILE:CG1	2.28	0.80
3:L:226:GLN:HB3	3:L:273:VAL:HG23	0.83	0.80
7:N:419:ALA:HB2	7:N:449:ILE:CD1	2.11	0.80
10:Q:127:GLN:NE2	10:Q:156:GLU:O	2.13	0.80
12:S:484:LEU:HD22	13:T:349:ILE:HD11	1.62	0.80
14:U:94:TRP:CZ2	14:U:109:ASN:CG	2.54	0.80
12:6:224:LEU:O	12:6:228:ARG:HB2	1.81	0.80
8:2:70:ARG:C	16:AA:17:ARG:HH21	1.83	0.80
16:AA:54:LEU:CA	16:AA:85:THR:CB	2.59	0.80
2:H:188:ARG:HG3	2:H:192:GLU:HB3	1.60	0.80
2:H:47:GLN:O	2:H:51:ASP:N	2.14	0.80
1:I:275:GLU:HB2	1:I:322:ARG:HH12	1.45	0.80
6:K:312:ASN:HD22	6:K:313:ARG:H	1.28	0.80
3:L:327:ASP:OD2	3:L:330:ALA:CB	2.29	0.80
4:M:142:ALA:O	4:M:145:LEU:CB	2.28	0.80
4:M:87:PRO:HB2	4:M:155:LYS:HE2	1.64	0.80
4:M:373:MET:HE3	4:M:415:LEU:CD1	2.08	0.80
8:O:73:PRO:CB	8:O:110:ALA:HB2	2.08	0.80
9:P:274:VAL:CG1	9:P:287:VAL:HG23	2.09	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:P:408:ARG:O	9:P:410:ALA:N	2.13	0.80
10:Q:273:GLY:C	10:Q:277:LEU:HB2	2.01	0.80
14:U:23:PHE:CD2	14:U:126:VAL:CB	2.63	0.80
4:O:88:TYR:CE1	4:O:161:LEU:HD12	2.16	0.80
9:3:384:LEU:HD22	9:3:388:GLU:CG	2.12	0.80
10:4:93:LEU:CD1	10:4:129:LEU:HD11	2.11	0.80
14:8:131:LEU:HD11	14:8:199:LYS:CD	2.10	0.80
2:H:299:MET:HE1	2:H:328:ASP:OD2	1.80	0.80
1:I:180:PRO:HG2	1:I:241:ASN:N	1.96	0.80
6:K:401:LYS:O	6:K:405:THR:N	2.15	0.80
3:L:162:VAL:HG21	6:K:387:VAL:HG22	1.63	0.80
8:2:34:TRP:H	16:AA:18:ASN:ND2	1.80	0.80
12:6:228:ARG:CZ	12:6:257:ASN:CG	2.49	0.80
6:K:271:ALA:CB	6:K:289:LEU:HD21	2.09	0.80
6:K:344:ILE:O	6:K:348:ILE:CG1	2.22	0.80
6:K:394:VAL:CG1	6:K:398:ASP:HB3	2.02	0.80
4:M:80:ILE:CG2	4:M:84:LYS:HD2	2.04	0.80
12:S:488:ASN:OD1	13:T:349:ILE:HG23	1.80	0.80
10:4:114:ILE:HD13	10:4:133:LEU:HD22	1.62	0.80
12:6:285:TRP:CD1	12:6:315:LYS:HG2	2.17	0.80
12:6:484:LEU:HD22	13:7:349:ILE:HD11	1.62	0.80
14:8:23:PHE:HD2	14:8:126:VAL:HG21	1.45	0.80
16:AA:142:ASN:ND2	16:AA:148:VAL:O	2.14	0.80
1:I:156:VAL:HG12	2:H:95:VAL:HB	0.85	0.80
5:J:184:LYS:HD2	5:J:280:LEU:O	1.81	0.80
10:Q:256:LEU:CD2	10:Q:319:ILE:HG23	2.12	0.80
11:R:228:MET:CE	11:R:271:PHE:CE2	2.65	0.80
12:S:224:LEU:O	12:S:228:ARG:HB2	1.81	0.80
12:S:228:ARG:CZ	12:S:257:ASN:CG	2.49	0.80
8:O:70:ARG:C	16:W:17:ARG:HH21	1.83	0.80
12:6:494:MET:CB	14:8:275:LEU:HD23	2.12	0.80
14:8:102:HIS:N	14:8:105:ASP:OD2	2.15	0.80
14:8:21:ASP:OD2	15:9:104:ARG:NH1	2.15	0.80
2:H:95:VAL:HG13	2:H:96:ALA:H	1.44	0.80
1:I:315:GLN:NE2	1:I:322:ARG:HH21	1.78	0.80
1:I:230:THR:CB	1:I:353:PHE:HB3	2.10	0.80
5:J:369:TYR:O	5:J:372:ARG:HG2	1.81	0.80
4:M:284:PHE:HD1	4:M:285:ILE:N	1.79	0.80
9:P:384:LEU:HD22	9:P:388:GLU:CG	2.12	0.80
12:S:231:LEU:HB3	12:S:250:LEU:CD1	2.11	0.80
13:T:329:THR:O	13:T:333:THR:OG1	1.98	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:4:256:LEU:CD2	10:4:319:ILE:HG23	2.12	0.80
2:H:355:PHE:HE1	2:H:385:ILE:CG2	1.82	0.80
2:H:83:ASP:HA	2:H:86:THR:HG1	1.43	0.80
1:I:144:LEU:CD2	1:I:162:VAL:HG22	2.12	0.80
5:J:114:VAL:CG1	5:J:126:ILE:HA	2.09	0.80
6:K:205:TYR:CD2	6:K:314:ALA:CB	2.65	0.80
4:M:141:ASP:OD2	4:M:144:LYS:NZ	2.14	0.80
4:M:88:TYR:CE1	4:M:161:LEU:HD12	2.16	0.80
3:L:197:LYS:NZ	4:M:320:PHE:CE2	2.50	0.80
10:Q:57:LEU:O	10:Q:59:LYS:N	2.13	0.80
11:R:300:ARG:O	11:R:304:TYR:CD1	2.35	0.80
18:Z:903:ASN:O	18:Z:907:ASP:N	2.15	0.80
2:H:174:TYR:CE2	2:H:184:ILE:CG2	2.65	0.80
1:I:369:THR:CG2	1:I:399:CYS:SG	2.68	0.80
6:K:210:CYS:HG	6:K:335:LEU:HA	1.46	0.80
6:K:211:GLY:HA2	33:K:501:ADP:O1A	1.82	0.80
4:M:180:ARG:CZ	4:M:241:ALA:O	2.29	0.80
12:S:256:ARG:NH2	17:Y:13:LEU:O	2.14	0.80
11:5:197:ALA:HB1	11:5:201:PHE:CD2	2.17	0.80
12:6:326:GLN:HE21	12:6:356:SER:HB3	1.45	0.80
24:G:53:GLN:HA	4:0:436:GLN:HE22	1.47	0.80
2:H:166:VAL:CG1	2:H:237:PHE:O	2.30	0.80
5:J:194:THR:HA	5:J:356:GLY:H	1.45	0.80
6:K:93:LEU:HA	6:K:127:ASN:OD1	1.82	0.80
6:K:343:LEU:O	6:K:347:THR:CG2	2.29	0.80
4:M:423:GLY:O	4:M:427:VAL:HG23	1.81	0.80
14:U:102:HIS:N	14:U:105:ASP:OD2	2.15	0.80
14:U:45:LYS:CG	14:U:46:LYS:H	1.95	0.80
9:3:153:LYS:HE2	9:3:162:ALA:HA	1.61	0.80
10:4:57:LEU:C	10:4:59:LYS:H	1.85	0.80
14:8:69:PHE:CE1	16:AA:60:VAL:HG21	2.17	0.80
16:AA:157:VAL:HG11	16:AA:170:LEU:HB2	1.62	0.80
2:H:208:PRO:HG2	2:H:316:LYS:NZ	1.98	0.80
1:I:369:THR:CB	1:I:374:LEU:CD1	2.46	0.80
1:I:407:LEU:HD13	5:J:175:PHE:CZ	2.16	0.80
6:K:163:MET:HG2	6:K:221:HIS:CE1	2.11	0.80
3:L:327:ASP:OD2	3:L:330:ALA:HB3	1.82	0.80
7:N:902:PRO:HA	7:N:915:LYS:HB3	1.63	0.80
11:R:185:GLY:CA	11:R:201:PHE:CZ	2.64	0.80
12:S:198:GLN:CB	12:S:203:LEU:CD2	2.60	0.80
12:S:285:TRP:CD1	12:S:315:LYS:HG2	2.17	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:0:91:SER:O	4:0:151:VAL:HG22	1.81	0.79
4:0:295:ARG:HH11	4:0:295:ARG:HB2	1.47	0.79
14:8:217:THR:O	14:8:219:LYS:N	2.15	0.79
15:9:150:SER:OG	15:9:156:VAL:HG12	1.81	0.79
1:I:230:THR:CG2	1:I:353:PHE:CA	2.54	0.79
1:I:363:ARG:O	1:I:367:ILE:CG1	2.29	0.79
4:M:91:SER:HB2	4:M:124:ILE:HG22	1.63	0.79
11:R:220:VAL:HG21	11:R:249:VAL:HG11	1.64	0.79
11:R:268:TYR:HE2	11:R:307:LEU:HB2	1.46	0.79
6:K:80:LYS:HB2	15:V:151:VAL:CG2	2.12	0.79
14:U:61:ASP:HA	16:W:95:LEU:HD11	1.64	0.79
10:4:9:PHE:O	10:4:13:GLN:N	2.13	0.79
11:5:300:ARG:O	11:5:304:TYR:CD1	2.35	0.79
13:7:187:TYR:O	13:7:191:LEU:HB2	1.82	0.79
18:AC:903:ASN:O	18:AC:907:ASP:N	2.15	0.79
2:H:284:ARG:HG3	2:H:296:GLN:CD	2.02	0.79
2:H:387:SER:O	2:H:391:GLU:CB	2.29	0.79
10:Q:336:ILE:O	10:Q:340:GLU:CG	2.31	0.79
14:U:40:LEU:HD11	14:U:91:ILE:HD13	1.63	0.79
4:0:423:GLY:O	4:0:427:VAL:HG23	1.81	0.79
10:4:264:PRO:CG	10:4:295:LYS:HE3	2.13	0.79
11:5:185:GLY:CA	11:5:201:PHE:CE2	2.65	0.79
11:5:225:TYR:O	11:5:229:ILE:HG12	1.82	0.79
14:8:70:LEU:CD2	14:8:111:LEU:HD21	2.03	0.79
18:AC:527:VAL:HA	18:AC:565:ASN:HA	1.65	0.79
6:K:371:SER:O	6:K:375:ILE:HD11	1.81	0.79
6:K:406:VAL:O	6:K:408:LYS:HG2	1.82	0.79
4:M:295:ARG:HB2	4:M:295:ARG:HH11	1.47	0.79
7:N:497:LEU:O	7:N:501:LEU:N	2.12	0.79
7:N:497:LEU:HD11	7:N:515:ALA:HB3	1.62	0.79
8:O:35:HIS:HB2	16:W:14:GLU:OE2	1.80	0.79
14:U:79:TYR:HE1	14:U:83:LYS:NZ	1.80	0.79
15:V:64:ASP:HA	15:V:139:ARG:HH11	1.44	0.79
7:1:643:SER:H	7:1:649:ARG:HE	1.30	0.79
11:5:268:TYR:HE2	11:5:307:LEU:HB2	1.46	0.79
12:6:469:THR:O	12:6:473:GLN:HG3	1.81	0.79
2:H:204:LEU:HD23	2:H:206:ILE:HG23	1.62	0.79
6:K:272:THR:HA	6:K:316:THR:O	1.81	0.79
4:M:142:ALA:O	4:M:145:LEU:HB2	1.81	0.79
10:Q:93:LEU:CD1	10:Q:129:LEU:HD11	2.11	0.79
13:T:187:TYR:O	13:T:191:LEU:HB2	1.82	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:U:69:PHE:CE1	16:W:60:VAL:HG21	2.17	0.79
7:1:497:LEU:HD11	7:1:515:ALA:HB3	1.62	0.79
10:4:2:ALA:HB2	10:4:34:ASP:H	1.43	0.79
12:6:198:GLN:CB	12:6:203:LEU:CD2	2.60	0.79
19:B:158:GLY:O	20:C:83:ARG:NH2	2.15	0.79
5:J:207:THR:CG2	5:J:209:CYS:SG	2.71	0.79
7:N:476:GLY:HA2	7:N:479:LEU:HD12	1.64	0.79
14:U:21:ASP:OD2	15:V:104:ARG:NH1	2.15	0.79
18:Z:498:LEU:O	18:Z:502:LEU:N	2.15	0.79
18:Z:533:ASP:O	18:Z:537:THR:N	2.15	0.79
5:J:130:LYS:O	5:J:131:VAL:HG23	1.81	0.79
5:J:88:LYS:HB2	5:J:94:LYS:HG2	1.64	0.79
7:N:788:VAL:H	7:N:881:PRO:HA	1.46	0.79
10:Q:135:SER:HB2	10:Q:172:LEU:HD21	1.65	0.79
4:0:375:VAL:HG12	4:0:376:SER:N	1.96	0.79
8:2:35:HIS:CB	16:AA:14:GLU:CD	2.51	0.79
18:AC:533:ASP:O	18:AC:537:THR:N	2.15	0.79
24:G:207:THR:HB	24:G:226:ASP:O	1.81	0.79
1:I:190:LEU:HD13	1:I:194:ILE:HD11	1.63	0.79
1:I:257:GLN:HG3	1:I:262:ASP:HB3	1.63	0.79
5:J:137:LEU:HB2	5:J:224:ILE:CG1	2.12	0.79
5:J:297:ARG:O	5:J:300:ILE:HG12	1.82	0.79
6:K:247:VAL:HG13	6:K:251:PHE:CE2	2.17	0.79
4:M:215:LEU:HD22	4:M:217:ILE:HG21	1.65	0.79
11:R:300:ARG:HH12	11:R:333:GLU:CG	1.95	0.79
15:V:248:MET:HE2	15:V:284:LEU:CD2	2.13	0.79
16:W:142:ASN:ND2	16:W:148:VAL:O	2.14	0.79
18:Z:527:VAL:HA	18:Z:565:ASN:HA	1.65	0.79
11:5:268:TYR:O	11:5:271:PHE:N	2.16	0.79
15:9:64:ASP:HA	15:9:139:ARG:HH11	1.44	0.79
14:8:25:ARG:NH2	15:9:70:ILE:CG2	2.45	0.79
14:8:61:ASP:HA	16:AA:95:LEU:HD11	1.64	0.79
2:H:263:MET:O	2:H:267:LYS:HD2	1.83	0.79
6:K:337:ASP:O	6:K:341:LYS:CD	2.31	0.79
6:K:366:ARG:HD2	6:K:403:TYR:HE2	1.46	0.79
3:L:215:ILE:CD1	3:L:260:LEU:HD23	2.11	0.79
3:L:383:LYS:CG	3:L:386:TYR:OH	2.27	0.79
9:P:301:LYS:CG	9:P:324:TYR:CD1	2.65	0.79
9:3:301:LYS:CG	9:3:324:TYR:CD1	2.65	0.79
10:4:415:TYR:CD1	11:5:383:LEU:HB3	2.18	0.79
14:8:45:LYS:CG	14:8:46:LYS:H	1.95	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:8:70:LEU:CD1	14:8:72:HIS:CE1	2.64	0.79
16:AA:55:ALA:N	16:AA:85:THR:OG1	2.16	0.79
18:AC:257:ARG:O	18:AC:259:PHE:N	2.16	0.79
18:AC:667:GLY:HA2	18:AC:671:ALA:HB3	0.79	0.79
2:H:111:TYR:HE1	2:H:125:LEU:HD23	1.01	0.79
2:H:307:ASP:OD2	2:H:335:GLY:C	2.22	0.79
1:I:271:PHE:CZ	1:I:316:LEU:CD1	2.64	0.79
1:I:387:LYS:HB3	1:I:390:LEU:CD2	2.07	0.79
6:K:411:GLU:HG2	6:K:412:GLN:N	1.97	0.79
3:L:148:VAL:CA	3:L:167:PRO:HG2	2.12	0.79
7:N:646:PRO:O	7:N:650:TYR:N	2.15	0.79
9:P:218:ASN:O	9:P:221:LYS:CG	2.31	0.79
10:Q:114:ILE:HD13	10:Q:133:LEU:HD22	1.62	0.79
16:W:55:ALA:N	16:W:85:THR:OG1	2.16	0.79
4:O:249:LEU:HD23	4:O:283:ILE:CD1	2.12	0.79
5:J:195:GLY:HA3	33:J:501:ADP:N7	1.98	0.79
4:M:121:CYS:HB3	4:M:133:PHE:CZ	2.17	0.79
10:Q:134:VAL:HG22	10:Q:149:LEU:HD23	1.65	0.79
5:J:149:GLU:CG	11:R:133:ALA:HB1	2.13	0.79
14:U:94:TRP:CD1	14:U:112:MET:CG	2.66	0.79
15:V:98:MET:CE	15:V:98:MET:HA	2.13	0.79
4:O:87:PRO:HB2	4:O:155:LYS:HE2	1.64	0.78
14:8:94:TRP:CD1	14:8:112:MET:CG	2.66	0.78
3:L:338:PHE:CD1	3:L:378:LYS:CE	2.66	0.78
10:Q:264:PRO:CG	10:Q:295:LYS:HE3	2.13	0.78
11:R:185:GLY:CA	11:R:201:PHE:CE2	2.65	0.78
16:W:65:THR:HG21	16:W:70:ARG:CG	2.14	0.78
4:O:121:CYS:HB3	4:O:133:PHE:CZ	2.17	0.78
4:O:249:LEU:HB3	4:O:283:ILE:HA	1.64	0.78
8:2:35:HIS:HB2	16:AA:14:GLU:OE2	1.80	0.78
9:3:443:THR:HG21	14:8:204:LYS:HD2	1.63	0.78
11:5:128:TYR:HA	11:5:131:THR:CG2	2.13	0.78
14:8:94:TRP:CZ2	14:8:109:ASN:CG	2.54	0.78
2:H:161:VAL:HG21	2:H:259:GLU:HB2	1.65	0.78
5:J:193:GLY:N	33:J:501:ADP:O2B	2.16	0.78
6:K:176:GLU:HG2	6:K:331:ILE:HD13	1.63	0.78
6:K:268:ASP:O	6:K:272:THR:HG23	1.82	0.78
6:K:176:GLU:CG	6:K:331:ILE:HD13	2.12	0.78
3:L:251:ARG:O	3:L:255:ARG:HG2	1.84	0.78
9:P:351:TRP:CZ3	9:P:354:LEU:HD23	2.18	0.78
11:R:128:TYR:HA	11:R:131:THR:CG2	2.13	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:Q:415:TYR:CD1	11:R:383:LEU:HB3	2.18	0.78
14:U:9:VAL:HG23	14:U:158:VAL:HG11	1.65	0.78
12:S:494:MET:CB	14:U:275:LEU:HD23	2.12	0.78
14:U:12:HIS:HD2	14:U:51:SER:HA	1.46	0.78
8:O:35:HIS:CB	16:W:14:GLU:CD	2.51	0.78
8:O:34:TRP:H	16:W:18:ASN:ND2	1.80	0.78
9:3:351:TRP:CZ3	9:3:354:LEU:HD23	2.18	0.78
14:8:22:HIS:CD2	14:8:35:VAL:HG13	1.95	0.78
18:AC:238:ASN:HA	18:AC:245:ASN:H	1.47	0.78
2:H:355:PHE:HE1	2:H:385:ILE:HG22	1.34	0.78
1:I:310:LEU:CD2	2:H:279:ALA:HB2	2.14	0.78
1:I:401:GLU:CG	1:I:422:SER:HA	2.11	0.78
5:J:164:VAL:C	5:J:168:PRO:HG2	2.04	0.78
6:K:372:GLY:C	33:K:501:ADP:C8	2.57	0.78
3:L:90:SER:O	3:L:93:LYS:HE3	1.81	0.78
11:R:225:TYR:HE1	11:R:256:VAL:CB	1.96	0.78
18:Z:257:ARG:O	18:Z:259:PHE:N	2.16	0.78
7:1:646:PRO:O	7:1:650:TYR:N	2.15	0.78
10:4:49:SER:O	10:4:53:LEU:CB	2.32	0.78
14:8:9:VAL:HG23	14:8:158:VAL:HG11	1.65	0.78
15:9:255:TYR:CA	15:9:280:PRO:HG2	2.13	0.78
1:I:342:ILE:HG23	1:I:350:LYS:CE	2.14	0.78
6:K:100:THR:HG21	6:K:112:TYR:OH	1.82	0.78
6:K:170:MET:O	6:K:174:LYS:HD3	1.84	0.78
6:K:276:ASP:CB	6:K:282:ASP:OD2	2.29	0.78
6:K:173:GLN:NE2	6:K:334:PRO:HD3	1.93	0.78
3:L:196:LEU:HD12	3:L:230:ILE:CD1	2.13	0.78
4:M:202:ILE:CG2	4:M:282:ILE:HD11	2.11	0.78
7:N:708:GLN:O	7:N:712:LEU:N	2.13	0.78
8:O:273:GLN:HE22	8:O:302:ILE:CB	1.96	0.78
7:1:497:LEU:O	7:1:501:LEU:N	2.12	0.78
11:5:225:TYR:HE1	11:5:256:VAL:CB	1.96	0.78
11:5:48:ASN:HB2	11:5:50:MET:SD	2.24	0.78
14:8:12:HIS:HD2	14:8:51:SER:HA	1.46	0.78
2:H:259:GLU:O	2:H:263:MET:HG3	1.83	0.78
5:J:148:TYR:CD1	5:J:202:ALA:HB1	2.17	0.78
6:K:162:VAL:HG13	6:K:214:MET:HE3	1.64	0.78
3:L:200:SER:OG	3:L:238:ILE:HG22	1.83	0.78
11:R:197:ALA:HB1	11:R:201:PHE:CD2	2.17	0.78
10:4:135:SER:HB2	10:4:172:LEU:HD21	1.65	0.78
13:7:330:ILE:HG21	13:7:334:GLU:OE1	1.82	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:301:GLU:OE1	4:M:254:PRO:CB	2.31	0.78
2:H:315:ILE:HD12	2:H:315:ILE:N	1.98	0.78
1:I:136:LEU:HD22	2:H:87:LEU:HD13	1.65	0.78
1:I:285:ASP:OD1	1:I:330:ALA:CB	2.31	0.78
6:K:207:PRO:HD2	6:K:333:PHE:O	1.82	0.78
3:L:123:SER:OG	3:L:196:LEU:CD2	2.30	0.78
4:M:249:LEU:HD23	4:M:283:ILE:CD1	2.12	0.78
14:U:25:ARG:NH2	15:V:70:ILE:CG2	2.45	0.78
18:Z:661:ALA:HB1	18:Z:693:ALA:O	1.84	0.78
7:1:151:ILE:O	7:1:155:LEU:N	2.14	0.78
11:5:21:GLN:HG2	11:5:286:TRP:CE3	2.19	0.78
10:4:396:THR:HG1	15:9:242:GLU:HG2	1.48	0.78
15:9:53:VAL:CG1	15:9:77:GLN:HE22	1.92	0.78
18:AC:323:ASN:O	18:AC:332:ALA:O	2.02	0.78
1:I:207:HIS:CG	1:I:210:TYR:OH	2.37	0.78
5:J:204:ALA:HB1	5:J:211:PHE:HB2	1.64	0.78
5:J:41:ASN:CA	5:J:44:ARG:HB2	2.14	0.78
18:Z:238:ASN:HA	18:Z:245:ASN:H	1.47	0.78
7:1:743:ASN:OD1	7:1:883:ARG:NH1	2.17	0.78
10:4:154:LEU:O	10:4:158:LYS:NZ	2.14	0.78
11:5:229:ILE:CG1	11:5:295:TYR:CZ	2.66	0.78
14:8:240:VAL:CB	14:8:242:LEU:CG	2.62	0.78
17:AB:60:LEU:O	17:AB:64:GLY:N	2.11	0.78
18:AC:654:VAL:CB	18:AC:685:THR:CB	2.62	0.78
1:I:257:GLN:NE2	1:I:262:ASP:O	2.16	0.78
1:I:290:ILE:HD13	1:I:309:MET:SD	2.24	0.78
6:K:109:SER:HB2	6:K:111:TYR:CE2	2.18	0.78
3:L:98:VAL:HA	3:L:110:TYR:HA	1.65	0.78
4:M:249:LEU:HB3	4:M:283:ILE:HA	1.64	0.78
11:R:204:THR:OG1	11:R:219:PHE:CZ	2.29	0.78
14:U:79:TYR:CE1	14:U:83:LYS:HE2	2.19	0.78
7:1:470:ASN:N	7:1:474:ARG:HB2	1.96	0.78
14:8:174:HIS:CD2	15:9:155:VAL:CG1	2.67	0.78
15:9:98:MET:HA	15:9:98:MET:CE	2.13	0.78
16:AA:65:THR:HG21	16:AA:70:ARG:CG	2.14	0.78
1:I:310:LEU:HD23	2:H:279:ALA:HB2	1.64	0.78
5:J:298:ILE:CG2	5:J:301:LEU:HD21	2.13	0.78
5:J:78:ARG:NH1	5:J:80:MET:HG2	1.99	0.78
6:K:372:GLY:CA	6:K:375:ILE:CD1	2.61	0.78
7:N:490:ARG:H	7:N:519:VAL:CG2	1.97	0.78
14:U:79:TYR:HE1	14:U:83:LYS:CE	1.96	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:4:169:VAL:O	10:4:173:GLU:CB	2.32	0.78
10:4:336:ILE:O	10:4:340:GLU:CG	2.31	0.78
2:H:256:MET:O	2:H:260:LEU:HD13	1.84	0.78
7:N:586:VAL:HG11	7:N:601:ARG:NH2	1.99	0.78
14:U:174:HIS:CD2	15:V:155:VAL:CG1	2.67	0.78
15:V:138:GLU:O	15:V:161:ARG:NH2	2.17	0.78
7:1:476:GLY:HA2	7:1:479:LEU:HD12	1.64	0.77
10:4:134:VAL:HG22	10:4:149:LEU:HD23	1.65	0.77
11:5:246:ILE:O	11:5:250:LEU:N	2.15	0.77
16:AA:2:VAL:HG13	16:AA:4:GLU:HG2	1.66	0.77
20:C:198:PHE:HE1	20:C:202:MET:HA	1.48	0.77
1:I:320:ASP:OD1	1:I:321:SER:N	2.13	0.77
1:I:362:LYS:HG3	1:I:384:ILE:CD1	2.13	0.77
1:I:387:LYS:HG2	1:I:390:LEU:HB3	1.64	0.77
3:L:121:ASN:O	3:L:125:GLU:HB3	1.84	0.77
2:H:119:ALA:CB	4:M:127:SER:O	2.32	0.77
4:M:168:TYR:CZ	4:M:274:LEU:HD23	2.19	0.77
4:M:188:ILE:HG22	4:M:189:GLY:N	1.99	0.77
7:N:576:PRO:CG	7:N:611:ASN:ND2	2.47	0.77
7:N:743:ASN:OD1	7:N:883:ARG:NH1	2.17	0.77
10:Q:253:TYR:HD1	10:Q:319:ILE:HD11	0.98	0.77
7:1:587:ALA:O	7:1:591:CYS:N	2.16	0.77
10:4:370:LEU:HG	11:5:233:ARG:NE	2.00	0.77
11:5:191:ILE:HG22	11:5:192:ARG:N	1.99	0.77
11:5:220:VAL:HG21	11:5:249:VAL:HG11	1.64	0.77
11:5:300:ARG:HH12	11:5:333:GLU:CG	1.95	0.77
1:I:275:GLU:CG	1:I:322:ARG:NH1	2.46	0.77
5:J:143:VAL:CG1	5:J:213:ARG:NE	2.47	0.77
5:J:214:VAL:HG21	5:J:234:LEU:CD2	2.13	0.77
5:J:273:MET:CE	5:J:305:LEU:CD2	2.62	0.77
3:L:114:GLU:HB2	4:M:95:GLU:OE2	1.85	0.77
3:L:148:VAL:HA	3:L:167:PRO:HG2	1.65	0.77
3:L:184:ALA:CB	3:L:231:PHE:CE1	2.64	0.77
3:L:353:PHE:CA	3:L:356:ARG:HB2	2.14	0.77
9:P:420:ASP:CB	9:P:421:PRO:HD3	2.11	0.77
10:Q:370:LEU:HG	11:R:233:ARG:NE	2.00	0.77
11:R:268:TYR:O	11:R:271:PHE:N	2.16	0.77
14:U:70:LEU:HD13	14:U:111:LEU:CD2	2.03	0.77
11:R:387:ILE:HD13	14:U:276:ILE:HG12	1.66	0.77
15:V:267:PRO:CD	15:V:268:GLU:OE1	2.28	0.77
7:1:474:ARG:O	7:1:478:SER:CB	2.33	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:3:448:LYS:O	9:3:452:ILE:HD12	1.85	0.77
11:5:201:PHE:O	11:5:204:THR:OG1	2.01	0.77
13:7:344:ARG:O	13:7:348:MET:N	2.17	0.77
6:K:345:PHE:CG	6:K:360:LEU:HD23	2.19	0.77
4:M:310:MET:CE	4:M:339:ASP:CB	2.62	0.77
8:O:9:GLN:O	8:O:13:ASN:HB3	1.84	0.77
10:Q:49:SER:O	10:Q:53:LEU:CB	2.32	0.77
4:0:359:GLU:O	4:0:362:ARG:N	2.18	0.77
11:5:135:GLY:O	11:5:139:ASP:HB2	1.84	0.77
13:7:335:LEU:O	13:7:339:VAL:N	2.16	0.77
2:H:90:GLU:O	2:H:93:LEU:HB2	1.85	0.77
1:I:401:GLU:CG	1:I:422:SER:HB2	2.14	0.77
5:J:189:TYR:HE2	5:J:316:GLU:HG3	1.47	0.77
5:J:193:GLY:O	5:J:355:SER:HB2	1.85	0.77
3:L:148:VAL:CG2	3:L:167:PRO:HG2	2.14	0.77
13:T:344:ARG:O	13:T:348:MET:N	2.17	0.77
4:0:215:LEU:HD22	4:0:217:ILE:HG21	1.65	0.77
7:1:413:LYS:HA	7:1:449:ILE:HG12	1.67	0.77
9:3:200:ILE:CG1	9:3:201:ARG:H	1.97	0.77
9:3:218:ASN:O	9:3:221:LYS:CG	2.31	0.77
11:5:33:GLY:H	11:5:34:ASP:HB3	1.49	0.77
12:6:472:PRO:C	12:6:476:PHE:CD2	2.58	0.77
16:AA:161:ASN:HD21	16:AA:164:ASP:HA	1.49	0.77
1:I:106:PRO:CG	5:J:121:TYR:CB	2.62	0.77
1:I:187:ILE:HD12	1:I:190:LEU:CD1	2.13	0.77
5:J:388:ALA:O	5:J:392:GLN:N	2.18	0.77
3:L:282:PRO:HB2	3:L:388:PRO:HB3	1.66	0.77
3:L:326:ILE:CG2	3:L:328:TYR:CD2	2.68	0.77
10:Q:203:PRO:O	10:Q:207:GLN:HB2	1.85	0.77
11:R:201:PHE:O	11:R:204:THR:OG1	2.01	0.77
11:R:33:GLY:H	11:R:34:ASP:HB3	1.49	0.77
4:0:91:SER:HB2	4:0:124:ILE:CG2	2.15	0.77
8:2:273:GLN:HE22	8:2:302:ILE:CB	1.96	0.77
10:4:236:PHE:CE1	10:4:251:LEU:CG	2.64	0.77
14:8:101:LEU:CD2	14:8:138:TYR:CE2	2.68	0.77
5:J:214:VAL:CG2	5:J:234:LEU:HD11	2.15	0.77
3:L:195:PHE:CE1	3:L:229:ILE:CB	2.68	0.77
7:N:587:ALA:O	7:N:591:CYS:N	2.16	0.77
10:Q:218:HIS:CD2	10:Q:231:TYR:CE2	2.73	0.77
14:U:23:PHE:CD2	14:U:126:VAL:CG1	2.46	0.77
17:Y:60:LEU:O	17:Y:64:GLY:N	2.11	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:1:576:PRO:CG	7:1:611:ASN:ND2	2.47	0.77
7:1:663:THR:O	7:1:698:GLN:NE2	2.17	0.77
10:4:203:PRO:O	10:4:207:GLN:HB2	1.85	0.77
13:7:344:ARG:HG3	13:7:348:MET:HG2	1.66	0.77
14:8:23:PHE:CD2	14:8:126:VAL:CG1	2.46	0.77
1:I:140:ASP:HB3	1:I:143:LEU:HG	1.67	0.77
3:L:56:ILE:CD1	4:M:132:TYR:CE1	2.67	0.77
7:N:160:LEU:O	7:N:164:GLU:N	2.18	0.77
9:P:448:LYS:O	9:P:452:ILE:HD12	1.85	0.77
10:Q:225:TRP:HZ2	10:Q:322:HIS:NE2	1.82	0.77
11:R:246:ILE:O	11:R:250:LEU:N	2.15	0.77
11:5:219:PHE:CE1	11:5:223:THR:CG2	2.68	0.77
14:8:174:HIS:CG	15:9:155:VAL:HG12	2.19	0.77
2:H:346:PRO:HB2	2:H:351:ARG:HG2	1.65	0.77
1:I:200:SER:C	1:I:219:PRO:HG3	2.04	0.77
1:I:94:GLU:HG3	1:I:98:LYS:HE3	1.66	0.77
5:J:30:GLU:C	5:J:34:ILE:CD1	2.54	0.77
6:K:216:ALA:HB2	6:K:263:PHE:CE2	2.20	0.77
3:L:338:PHE:HD1	3:L:378:LYS:HZ2	0.79	0.77
4:M:286:ASP:O	4:M:287:GLU:HG2	1.84	0.77
18:Z:654:VAL:CB	18:Z:685:THR:CB	2.62	0.77
4:0:198:LEU:HD11	4:0:240:CYS:HG	1.48	0.77
9:3:420:ASP:CB	9:3:421:PRO:HD3	2.11	0.77
10:4:249:THR:HG23	10:4:253:TYR:CE2	2.18	0.77
11:5:54:TYR:OH	11:5:65:ILE:O	2.03	0.77
12:6:463:MET:HB3	12:6:466:ILE:HD13	1.67	0.77
13:7:343:ALA:O	13:7:347:GLU:N	2.18	0.77
14:8:23:PHE:HD2	14:8:126:VAL:CB	1.98	0.77
2:H:157:ILE:HG21	2:H:263:MET:CG	2.15	0.77
2:H:174:TYR:CD2	2:H:184:ILE:HG21	2.20	0.77
2:H:330:ALA:CB	2:H:336:ARG:NH1	2.46	0.77
1:I:122:ILE:HD11	1:I:130:GLU:CA	2.15	0.77
5:J:279:GLN:O	5:J:284:GLU:CG	2.31	0.77
6:K:184:PRO:CB	6:K:191:TYR:OH	2.32	0.77
3:L:153:LEU:HD12	3:L:154:THR:HG23	1.67	0.77
3:L:180:LYS:HG2	3:L:301:ILE:HD12	1.66	0.77
3:L:67:GLU:O	3:L:82:GLY:CA	2.29	0.77
4:M:272:PHE:CD2	4:M:316:GLN:CB	2.68	0.77
7:N:643:SER:H	7:N:649:ARG:HE	1.30	0.77
9:P:149:LEU:CD1	9:P:165:ILE:CD1	2.56	0.77
9:P:200:ILE:CG1	9:P:201:ARG:H	1.97	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:Q:154:LEU:O	10:Q:158:LYS:NZ	2.14	0.77
10:Q:249:THR:HG23	10:Q:253:TYR:CE2	2.18	0.77
10:Q:260:MET:HE1	10:Q:325:LYS:HB2	1.65	0.77
11:R:53:TYR:HH	11:R:150:PHE:HZ	1.33	0.77
11:R:304:TYR:HD2	11:R:334:LEU:CD2	1.98	0.77
13:T:224:VAL:HG13	13:T:225:TYR:N	1.98	0.77
4:0:310:MET:CE	4:0:339:ASP:CB	2.62	0.77
8:2:58:LYS:HA	8:2:61:GLU:HB2	1.67	0.77
8:2:9:GLN:O	8:2:13:ASN:HB3	1.84	0.77
11:5:228:MET:CE	11:5:271:PHE:HE2	1.97	0.77
2:H:330:ALA:CB	2:H:336:ARG:HH11	1.97	0.77
1:I:200:SER:O	1:I:219:PRO:HD2	1.84	0.77
1:I:414:VAL:HG12	1:I:415:THR:H	1.50	0.77
5:J:41:ASN:HA	5:J:44:ARG:HB2	1.65	0.77
10:Q:169:VAL:O	10:Q:173:GLU:CB	2.32	0.77
11:R:71:ASN:O	11:R:75:LYS:HG3	1.85	0.77
14:U:21:ASP:O	14:U:25:ARG:HB2	1.85	0.77
15:V:255:TYR:CA	15:V:280:PRO:HG2	2.13	0.77
4:0:168:TYR:CZ	4:0:274:LEU:HD23	2.19	0.76
4:0:202:ILE:CG2	4:0:282:ILE:HD11	2.11	0.76
10:4:401:LEU:HD21	11:5:369:THR:HA	1.67	0.76
7:N:58:GLN:HB3	7:N:84:ALA:HA	1.67	0.76
11:R:21:GLN:HG2	11:R:286:TRP:CE3	2.19	0.76
13:T:344:ARG:HG3	13:T:348:MET:HG2	1.66	0.76
4:0:358:ASN:O	4:0:362:ARG:CZ	2.32	0.76
7:1:437:TYR:O	7:1:441:GLY:N	2.18	0.76
7:1:490:ARG:H	7:1:519:VAL:CG2	1.97	0.76
7:1:586:VAL:HG11	7:1:601:ARG:NH2	1.99	0.76
10:4:218:HIS:CD2	10:4:231:TYR:CE2	2.73	0.76
12:6:345:ARG:C	12:6:347:GLN:H	1.85	0.76
6:K:179:GLU:O	6:K:184:PRO:CG	2.32	0.76
3:L:236:ASP:HB2	4:M:311:LEU:HD11	1.68	0.76
7:N:663:THR:O	7:N:698:GLN:NE2	2.17	0.76
10:Q:37:GLU:CB	10:Q:39:ASP:N	2.48	0.76
10:Q:401:LEU:HD21	11:R:369:THR:HA	1.67	0.76
10:Q:415:TYR:CE1	11:R:383:LEU:HB2	2.20	0.76
13:T:330:ILE:HG21	13:T:334:GLU:OE1	1.82	0.76
14:U:40:LEU:CD1	14:U:91:ILE:HD13	2.15	0.76
16:W:161:ASN:HD21	16:W:164:ASP:HA	1.49	0.76
10:4:225:TRP:HZ2	10:4:322:HIS:NE2	1.82	0.76
11:5:304:TYR:HD2	11:5:334:LEU:CD2	1.98	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:9:138:GLU:O	15:9:161:ARG:NH2	2.17	0.76
5:J:25:LEU:HD11	7:N:105:ILE:HD13	1.67	0.76
6:K:211:GLY:CA	33:K:501:ADP:O1A	2.34	0.76
4:M:272:PHE:HD2	4:M:316:GLN:HB3	1.46	0.76
9:P:87:ILE:O	9:P:91:SER:N	2.17	0.76
10:Q:104:GLY:O	10:Q:108:GLU:N	2.19	0.76
10:Q:84:LYS:CE	10:Q:88:LEU:HD23	2.11	0.76
12:S:330:LYS:HG2	12:S:360:TYR:CE2	2.17	0.76
13:T:343:ALA:O	13:T:347:GLU:N	2.18	0.76
14:U:240:VAL:CB	14:U:242:LEU:CG	2.62	0.76
4:0:188:ILE:HG22	4:0:189:GLY:N	1.99	0.76
4:0:212:PHE:CD1	4:0:217:ILE:CD1	2.34	0.76
4:0:272:PHE:CD2	4:0:316:GLN:CB	2.68	0.76
10:4:238:GLY:O	10:4:242:ILE:HG22	1.85	0.76
14:8:48:LEU:CD1	14:8:120:VAL:HG21	2.15	0.76
18:AC:698:SER:HA	18:AC:702:PRO:CA	2.14	0.76
20:C:52:LYS:O	20:C:53:SER:OG	2.02	0.76
21:D:8:ARG:HB3	21:D:11:ILE:HD12	1.66	0.76
1:I:264:PRO:HA	1:I:311:GLU:HG2	1.68	0.76
5:J:115:ALA:N	5:J:125:LYS:O	2.17	0.76
5:J:137:LEU:CB	5:J:224:ILE:HD11	2.16	0.76
1:I:249:ARG:NH2	5:J:278:ASN:HB2	1.98	0.76
3:L:163:GLY:O	3:L:164:ILE:HG13	1.85	0.76
10:Q:238:GLY:O	10:Q:242:ILE:HG22	1.85	0.76
11:R:191:ILE:HG22	11:R:192:ARG:N	1.99	0.76
16:W:2:VAL:HG13	16:W:4:GLU:HG2	1.66	0.76
10:4:194:ARG:HH12	10:4:214:SER:HB3	1.51	0.76
10:4:37:GLU:CB	10:4:39:ASP:N	2.48	0.76
11:5:143:TYR:O	11:5:146:ARG:HB3	1.86	0.76
12:6:265:ASP:O	12:6:268:GLU:CG	2.33	0.76
1:I:406:ALA:HB2	1:I:414:VAL:HG22	1.67	0.76
14:U:217:THR:O	14:U:219:LYS:N	2.15	0.76
18:Z:322:SER:O	18:Z:332:ALA:HB3	1.84	0.76
18:Z:698:SER:HA	18:Z:702:PRO:CA	2.14	0.76
4:0:286:ASP:O	4:0:287:GLU:HG2	1.84	0.76
7:1:499:THR:O	7:1:503:GLN:N	2.18	0.76
7:1:935:ILE:O	7:1:939:GLU:N	2.19	0.76
10:4:66:LEU:CB	10:4:109:LEU:CD1	2.63	0.76
6:K:116:LEU:CA	6:K:119:ILE:HD13	2.15	0.76
3:L:122:MET:CE	3:L:218:MET:HG2	2.14	0.76
3:L:57:VAL:HG12	3:L:74:THR:HG21	1.65	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:N:7:GLY:HA2	13:T:170:GLN:CG	2.13	0.76
11:R:135:GLY:O	11:R:139:ASP:HB2	1.84	0.76
14:U:174:HIS:CG	15:V:155:VAL:HG12	2.19	0.76
15:V:89:PRO:HD2	15:V:90:VAL:H	1.49	0.76
7:1:397:THR:O	7:1:401:LYS:N	2.14	0.76
10:4:415:TYR:CE1	11:5:383:LEU:HB2	2.20	0.76
18:AC:724:ASN:O	18:AC:728:ALA:N	2.18	0.76
18:AC:792:ALA:CB	18:AC:824:ALA:CB	2.55	0.76
1:I:247:PHE:HE2	5:J:283:PHE:HZ	1.33	0.76
3:L:70:ILE:CD1	6:K:146:GLU:OE1	2.33	0.76
6:K:163:MET:HA	6:K:221:HIS:ND1	2.01	0.76
6:K:372:GLY:C	33:K:501:ADP:H8	1.89	0.76
3:L:227:PRO:HD3	3:L:272:ARG:HD3	1.68	0.76
4:M:359:GLU:O	4:M:362:ARG:N	2.18	0.76
7:N:11:LEU:HD11	13:T:124:LEU:CG	2.16	0.76
7:N:474:ARG:O	7:N:478:SER:CB	2.33	0.76
10:Q:66:LEU:CB	10:Q:109:LEU:CD1	2.63	0.76
11:R:219:PHE:CE1	11:R:223:THR:CG2	2.68	0.76
12:S:265:ASP:O	12:S:268:GLU:CG	2.33	0.76
12:S:472:PRO:C	12:S:476:PHE:CD2	2.58	0.76
14:U:101:LEU:CD2	14:U:138:TYR:CE2	2.68	0.76
14:U:48:LEU:CD1	14:U:120:VAL:HG21	2.15	0.76
11:5:183:TYR:HE1	11:5:213:LEU:HD11	0.99	0.76
2:H:299:MET:CE	2:H:303:ILE:CD1	2.58	0.76
5:J:373:GLU:HG2	5:J:375:ARG:HD3	1.66	0.76
6:K:348:ILE:HG21	6:K:379:CYS:SG	2.26	0.76
3:L:219:PHE:O	3:L:223:ARG:CG	2.32	0.76
3:L:264:MET:CE	3:L:275:MET:HE1	2.16	0.76
3:L:87:LEU:O	3:L:88:ASP:HB2	1.85	0.76
4:M:91:SER:HB2	4:M:124:ILE:CG2	2.15	0.76
7:N:413:LYS:HA	7:N:449:ILE:HG12	1.67	0.76
9:3:149:LEU:CD1	9:3:165:ILE:CD1	2.56	0.76
10:4:236:PHE:HE1	10:4:251:LEU:HG	1.43	0.76
11:5:21:GLN:CG	11:5:286:TRP:CZ3	2.69	0.76
13:7:224:VAL:HG23	13:7:225:TYR:N	1.98	0.76
1:I:106:PRO:HG3	5:J:121:TYR:HB3	1.67	0.76
1:I:283:PHE:CE1	1:I:328:ILE:HG21	2.20	0.76
6:K:93:LEU:HD23	6:K:102:ILE:CG2	2.13	0.76
11:R:263:LEU:HB2	11:R:271:PHE:HE2	1.51	0.76
11:5:185:GLY:O	11:5:201:PHE:CE2	2.39	0.76
14:8:34:ARG:NH2	14:8:102:HIS:HD2	1.84	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:112:ILE:CG1	2:H:122:VAL:HG22	2.15	0.76
1:I:187:ILE:CD1	1:I:190:LEU:HD12	2.15	0.76
1:I:290:ILE:HD11	1:I:309:MET:HG2	1.66	0.76
5:J:151:ILE:CD1	5:J:198:LEU:CB	2.63	0.76
5:J:30:GLU:O	5:J:34:ILE:CD1	2.33	0.76
6:K:147:ALA:HB3	6:K:249:ASP:CG	2.06	0.76
7:N:470:ASN:N	7:N:474:ARG:HB2	1.96	0.76
7:N:491:GLN:O	7:N:495:ASP:N	2.17	0.76
8:O:58:LYS:HA	8:O:61:GLU:HB2	1.67	0.76
5:J:335:LYS:CA	11:R:173:ASP:HB3	2.05	0.76
14:U:79:TYR:CE2	14:U:91:ILE:HG12	2.16	0.76
4:O:272:PHE:HD2	4:O:316:GLN:HB3	1.46	0.75
4:O:54:ILE:O	4:O:58:GLU:N	2.16	0.75
7:1:58:GLN:HB3	7:1:84:ALA:HA	1.67	0.75
9:3:444:HIS:CE1	14:8:138:TYR:CE1	2.74	0.75
12:6:469:THR:HA	14:8:254:ASN:HD21	1.51	0.75
20:C:198:PHE:CE1	20:C:202:MET:HA	2.20	0.75
22:E:120:GLN:NE2	23:F:133:MET:SD	2.59	0.75
5:J:354:ALA:CB	5:J:358:GLU:OE1	2.33	0.75
6:K:93:LEU:CB	6:K:102:ILE:O	2.34	0.75
6:K:124:LEU:O	6:K:125:LYS:O	2.04	0.75
8:O:374:ILE:HD12	13:T:347:GLU:OE2	1.86	0.75
10:Q:117:ALA:O	10:Q:121:LYS:N	2.18	0.75
9:P:408:ARG:CB	10:Q:345:VAL:HA	2.16	0.75
11:R:21:GLN:CG	11:R:286:TRP:CZ3	2.69	0.75
12:S:345:ARG:C	12:S:347:GLN:H	1.85	0.75
12:S:469:THR:CG2	14:U:250:TYR:CD2	2.69	0.75
4:O:237:ALA:CB	4:O:284:PHE:CD2	2.69	0.75
7:1:102:ALA:HA	7:1:105:ILE:HD12	1.68	0.75
14:8:40:LEU:CG	14:8:91:ILE:HD13	2.16	0.75
19:B:171:LYS:HB3	19:B:205:VAL:HG21	1.66	0.75
24:G:50:LYS:HE2	24:G:211:SER:OG	1.85	0.75
1:I:283:PHE:CD1	1:I:328:ILE:HG21	2.21	0.75
5:J:127:LEU:HD13	6:K:102:ILE:HD11	1.68	0.75
3:L:175:PRO:HD2	3:L:178:THR:HG21	1.67	0.75
7:N:423:MET:HE1	7:N:445:ALA:CB	2.13	0.75
11:R:143:TYR:O	11:R:146:ARG:HB3	1.86	0.75
11:R:229:ILE:HG13	11:R:295:TYR:CZ	2.22	0.75
11:R:54:TYR:OH	11:R:65:ILE:O	2.03	0.75
18:Z:164:GLY:CA	18:Z:167:ALA:HB3	2.13	0.75
18:Z:426:LEU:O	18:Z:430:ASP:CB	2.34	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:Z:792:ALA:CB	18:Z:824:ALA:CB	2.55	0.75
4:0:272:PHE:CE2	4:0:316:GLN:HB3	2.20	0.75
7:1:11:LEU:HD11	13:7:124:LEU:CG	2.16	0.75
11:5:228:MET:HE3	11:5:263:LEU:CD2	2.15	0.75
11:5:71:ASN:O	11:5:75:LYS:HG3	1.85	0.75
1:I:197:ILE:HG21	1:I:235:LEU:HD11	1.67	0.75
5:J:26:SER:O	5:J:29:GLU:HB2	1.86	0.75
16:W:124:LEU:HD13	16:W:152:LYS:HB3	1.68	0.75
18:Z:667:GLY:HA2	18:Z:671:ALA:HB3	0.79	0.75
4:0:236:LEU:CD1	4:0:354:PHE:CZ	2.69	0.75
7:1:11:LEU:HD21	13:7:120:LYS:CG	2.16	0.75
7:1:802:TYR:HB3	7:1:894:MET:HA	1.69	0.75
9:3:408:ARG:CB	10:4:345:VAL:HA	2.16	0.75
11:5:124:PHE:O	11:5:127:THR:OG1	2.03	0.75
14:8:94:TRP:HH2	14:8:121:LEU:HD22	1.49	0.75
14:8:21:ASP:O	14:8:25:ARG:HB2	1.85	0.75
15:9:89:PRO:HD2	15:9:90:VAL:H	1.49	0.75
2:H:330:ALA:O	2:H:336:ARG:NE	2.19	0.75
5:J:193:GLY:CA	33:J:501:ADP:O2B	2.35	0.75
6:K:258:ALA:HB1	6:K:259:PRO:CD	2.16	0.75
3:L:200:SER:OG	3:L:238:ILE:CG2	2.34	0.75
3:L:257:LEU:O	3:L:257:LEU:HD22	1.86	0.75
7:N:102:ALA:HA	7:N:105:ILE:HD12	1.68	0.75
7:N:151:ILE:O	7:N:155:LEU:N	2.14	0.75
7:N:437:TYR:O	7:N:441:GLY:N	2.18	0.75
8:O:132:LYS:CB	8:O:162:TYR:CZ	2.69	0.75
13:T:344:ARG:CG	13:T:348:MET:HG2	2.17	0.75
14:U:34:ARG:NH2	14:U:102:HIS:HD2	1.84	0.75
18:Z:724:ASN:O	18:Z:728:ALA:N	2.18	0.75
7:1:559:ARG:HB3	7:1:562:GLU:HB2	1.68	0.75
20:C:132:SER:HB3	20:C:162:MET:HE2	1.66	0.75
2:H:151:ILE:HG22	2:H:152:PRO:CD	2.15	0.75
1:I:313:LEU:CD2	2:H:276:GLU:OE2	2.34	0.75
3:L:97:ARG:NH2	3:L:112:PRO:O	2.18	0.75
3:L:254:GLN:O	3:L:257:LEU:N	2.19	0.75
7:N:164:GLU:C	7:N:165:LYS:HG3	2.07	0.75
10:Q:301:ASP:O	10:Q:304:LYS:CG	2.35	0.75
11:R:197:ALA:HB1	11:R:201:PHE:CE2	2.22	0.75
11:R:185:GLY:C	11:R:201:PHE:HZ	1.52	0.75
14:U:22:HIS:CD2	14:U:35:VAL:HG13	1.95	0.75
7:1:160:LEU:O	7:1:164:GLU:N	2.18	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:4:301:ASP:O	10:4:304:LYS:CG	2.35	0.75
11:5:197:ALA:HB1	11:5:201:PHE:CE2	2.22	0.75
18:AC:684:PRO:O	18:AC:688:ARG:N	2.17	0.75
2:H:111:TYR:HH	2:H:131:PRO:HA	1.51	0.75
1:I:144:LEU:HG	1:I:162:VAL:HG23	1.64	0.75
1:I:180:PRO:HG3	1:I:241:ASN:N	2.01	0.75
5:J:247:PHE:C	5:J:248:MET:HG3	2.07	0.75
5:J:188:LEU:HB2	5:J:294:ALA:CB	2.17	0.75
6:K:214:MET:SD	33:K:501:ADP:H2'	2.26	0.75
6:K:293:LEU:HD22	6:K:326:ARG:HH12	0.93	0.75
3:L:20:LYS:O	3:L:24:GLY:N	2.16	0.75
4:M:237:ALA:HB1	4:M:284:PHE:CD2	2.21	0.75
4:M:236:LEU:CD1	4:M:354:PHE:CZ	2.69	0.75
8:O:242:SER:C	8:O:279:GLU:OE2	2.25	0.75
9:P:444:HIS:CE1	14:U:138:TYR:CE1	2.74	0.75
14:U:94:TRP:HH2	14:U:121:LEU:HD22	1.49	0.75
9:3:420:ASP:O	9:3:423:ASN:N	2.20	0.75
18:AC:426:LEU:O	18:AC:430:ASP:CB	2.34	0.75
1:I:111:THR:HA	1:I:149:SER:HA	1.67	0.75
1:I:122:ILE:HD11	1:I:130:GLU:C	2.07	0.75
1:I:107:MET:CE	1:I:160:ILE:HB	2.16	0.75
5:J:137:LEU:HD13	5:J:220:VAL:HG13	0.76	0.75
6:K:293:LEU:CD2	6:K:326:ARG:HH12	1.86	0.75
6:K:354:LEU:HD21	6:K:399:PHE:CZ	2.21	0.75
4:M:169:ASP:CB	4:M:172:VAL:CG2	2.64	0.75
10:Q:91:SER:O	10:Q:95:LEU:HD12	1.86	0.75
16:W:169:HIS:HD2	16:W:187:PRO:CG	1.91	0.75
9:3:274:VAL:HG12	9:3:287:VAL:CG2	2.17	0.75
10:4:279:TYR:O	10:4:280:ALA:C	2.25	0.75
10:4:255:LEU:HB2	10:4:287:LEU:HD13	1.69	0.75
10:4:253:TYR:HD1	10:4:319:ILE:HD11	0.98	0.75
9:3:406:VAL:O	10:4:343:SER:N	2.19	0.75
5:J:343:ASN:HB3	5:J:346:LYS:HD3	1.67	0.75
10:4:84:LYS:CE	10:4:88:LEU:HD23	2.11	0.75
12:6:285:TRP:HD1	12:6:315:LYS:HG2	1.52	0.75
20:C:44:VAL:HG22	20:C:183:LEU:HD11	1.69	0.75
1:I:421:LYS:O	1:I:425:ASN:CB	2.28	0.75
6:K:207:PRO:HG2	6:K:335:LEU:CG	2.16	0.75
6:K:270:ILE:HD12	6:K:288:ILE:HG21	1.67	0.75
6:K:299:PHE:CD1	6:K:303:VAL:HG11	2.22	0.75
3:L:321:THR:OG1	3:L:361:PHE:HA	1.87	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:304:ARG:O	4:M:308:ARG:HG3	1.87	0.75
10:Q:202:CYS:HB2	10:Q:203:PRO:CA	2.13	0.75
12:S:467:TYR:CE1	14:U:254:ASN:ND2	2.55	0.75
13:T:116:LEU:O	13:T:120:LYS:CB	2.34	0.75
4:0:74:LYS:HA	4:0:77:SER:OG	1.87	0.74
11:5:387:ILE:HD13	14:8:276:ILE:HG12	1.66	0.74
12:6:469:THR:CG2	14:8:250:TYR:CD2	2.69	0.74
18:AC:498:LEU:O	18:AC:502:LEU:N	2.15	0.74
2:H:114:ASN:HD22	2:H:114:ASN:H	1.33	0.74
1:I:288:ASP:O	1:I:292:THR:HG22	1.87	0.74
1:I:405:MET:CE	1:I:421:LYS:HD2	2.17	0.74
6:K:87:LEU:HB3	6:K:132:LEU:O	1.86	0.74
3:L:244:SER:H	3:L:245:GLU:HA	1.52	0.74
4:M:212:PHE:CG	4:M:217:ILE:HD11	2.19	0.74
4:M:237:ALA:CB	4:M:284:PHE:CD2	2.69	0.74
4:M:288:LEU:H	4:M:332:THR:HG22	1.50	0.74
7:N:802:TYR:HB3	7:N:894:MET:HA	1.69	0.74
11:R:185:GLY:O	11:R:201:PHE:CE2	2.39	0.74
11:R:304:TYR:HD2	11:R:334:LEU:HD21	1.52	0.74
16:W:25:ARG:HH22	16:W:143:PHE:H	1.33	0.74
4:0:288:LEU:H	4:0:332:THR:HG22	1.50	0.74
11:5:127:THR:C	11:5:131:THR:HG23	2.07	0.74
14:8:23:PHE:HD2	14:8:126:VAL:CG2	1.97	0.74
16:AA:25:ARG:HH22	16:AA:143:PHE:H	1.33	0.74
1:I:187:ILE:HD11	1:I:194:ILE:CD1	2.15	0.74
1:I:343:ARG:HH21	1:I:346:ARG:HH21	0.76	0.74
5:J:391:MET:HA	5:J:394:ASP:HB2	1.69	0.74
5:J:70:GLY:O	5:J:118:ASN:OD1	2.04	0.74
6:K:283:ARG:O	6:K:287:ARG:HG3	1.86	0.74
3:L:145:LEU:CD1	3:L:299:ILE:CD1	2.65	0.74
4:0:87:PRO:HB3	4:0:155:LYS:HE2	1.69	0.74
10:4:242:ILE:HG13	10:4:243:ASP:H	1.50	0.74
1:I:106:PRO:HG3	5:J:121:TYR:HB2	1.65	0.74
1:I:290:ILE:O	1:I:305:ILE:HG21	1.86	0.74
6:K:154:LEU:C	6:K:155:THR:HG23	2.07	0.74
6:K:378:ILE:HG23	6:K:402:ALA:CB	2.16	0.74
3:L:253:ILE:O	3:L:257:LEU:N	2.17	0.74
9:P:406:VAL:O	10:Q:343:SER:N	2.19	0.74
24:G:166:GLN:HE22	4:0:386:ARG:HB2	1.51	0.74
7:1:7:GLY:HA2	13:7:170:GLN:CG	2.13	0.74
9:3:384:LEU:CD1	9:3:392:PHE:HE2	2.00	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AC:444:ALA:O	18:AC:448:CYS:N	2.20	0.74
2:H:161:VAL:HG13	2:H:260:LEU:CD1	2.17	0.74
5:J:130:LYS:C	5:J:131:VAL:HG23	2.07	0.74
7:N:499:THR:O	7:N:503:GLN:N	2.18	0.74
10:Q:242:ILE:HG13	10:Q:243:ASP:H	1.50	0.74
11:R:124:PHE:O	11:R:127:THR:OG1	2.05	0.74
12:S:231:LEU:CA	12:S:250:LEU:HD11	2.17	0.74
4:0:233:LYS:HD3	33:0:501:ADP:O1B	1.87	0.74
7:1:414:GLY:H	7:1:449:ILE:HG23	1.51	0.74
10:4:202:CYS:HB2	10:4:203:PRO:CA	2.13	0.74
10:4:297:ARG:CG	10:4:333:GLN:HB3	2.17	0.74
12:6:231:LEU:CA	12:6:250:LEU:HD11	2.17	0.74
7:1:610:VAL:HG11	14:8:178:ASP:OD2	1.88	0.74
16:AA:15:TYR:CE2	16:AA:144:GLY:HA2	2.23	0.74
2:H:272:ILE:HD12	2:H:315:ILE:CG2	2.18	0.74
1:I:110:GLY:O	1:I:150:VAL:N	2.15	0.74
6:K:200:ARG:NH2	6:K:299:PHE:CB	2.51	0.74
6:K:360:LEU:HD12	6:K:363:TYR:HD2	1.53	0.74
6:K:372:GLY:HA3	33:K:501:ADP:C8	2.23	0.74
6:K:96:VAL:CG2	6:K:112:TYR:HE1	1.98	0.74
3:L:151:LEU:N	3:L:152:PRO:HD2	2.01	0.74
3:L:387:LYS:HG2	3:L:388:PRO:CD	2.17	0.74
10:Q:170:GLN:O	10:Q:174:SER:HB2	1.88	0.74
12:S:374:LYS:O	12:S:377:GLN:CG	2.36	0.74
13:T:234:GLN:O	13:T:237:MET:HB2	1.88	0.74
4:0:212:PHE:CG	4:0:217:ILE:HD11	2.19	0.74
11:5:71:ASN:HB3	11:5:75:LYS:NZ	2.03	0.74
2:H:188:ARG:HG3	2:H:192:GLU:CB	2.16	0.74
2:H:365:GLU:HB2	2:H:404:ALA:O	1.87	0.74
5:J:149:GLU:OE2	11:R:134:LEU:N	2.20	0.74
6:K:90:GLY:C	6:K:130:VAL:CG2	2.48	0.74
6:K:409:LYS:O	6:K:412:GLN:NE2	2.19	0.74
3:L:93:LYS:HB3	3:L:94:PRO:CD	2.17	0.74
4:M:206:MET:HB2	4:M:327:LYS:HZ1	1.50	0.74
4:M:373:MET:HE1	4:M:415:LEU:CD1	2.11	0.74
9:P:384:LEU:CD1	9:P:392:PHE:HE2	2.00	0.74
14:U:23:PHE:HD2	14:U:126:VAL:CB	1.98	0.74
4:0:237:ALA:HB1	4:0:284:PHE:CD2	2.21	0.74
4:0:304:ARG:O	4:0:308:ARG:HG3	1.87	0.74
10:4:169:VAL:O	10:4:173:GLU:HB2	1.88	0.74
10:4:170:GLN:O	10:4:174:SER:HB2	1.88	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:8:179:ILE:HG22	15:9:218:LEU:HD21	1.70	0.74
2:H:263:MET:O	2:H:267:LYS:CD	2.35	0.74
2:H:242:GLY:CA	2:H:280:ILE:HG12	2.17	0.74
2:H:183:GLN:NE2	2:H:342:GLU:O	2.21	0.74
5:J:151:ILE:HD11	5:J:198:LEU:CB	2.16	0.74
6:K:354:LEU:CD1	6:K:394:VAL:HB	2.17	0.74
4:M:233:LYS:HD3	33:M:501:ADP:O1B	1.87	0.74
7:N:148:LYS:CE	7:N:179:TYR:CD2	2.71	0.74
9:P:48:LEU:CD2	9:P:90:LEU:CD1	2.62	0.74
10:Q:202:CYS:O	10:Q:206:LEU:HD22	1.88	0.74
10:Q:194:ARG:HH12	10:Q:214:SER:HB3	1.51	0.74
14:U:179:ILE:HG22	15:V:218:LEU:HD21	1.70	0.74
8:2:245:VAL:CB	8:2:276:CYS:SG	2.76	0.74
8:2:374:ILE:HD12	13:7:347:GLU:OE2	1.86	0.74
10:4:91:SER:O	10:4:95:LEU:HD12	1.86	0.74
12:6:467:TYR:CE1	14:8:254:ASN:ND2	2.55	0.74
13:7:328:THR:N	13:7:331:PRO:HG2	2.03	0.74
13:7:344:ARG:CG	13:7:348:MET:HG2	2.17	0.74
18:AC:164:GLY:CA	18:AC:167:ALA:HB3	2.13	0.74
18:AC:496:ASP:O	18:AC:500:LEU:N	2.19	0.74
2:H:125:LEU:HA	2:H:149:ILE:CB	2.15	0.74
2:H:233:THR:HG23	2:H:234:ASP:H	1.51	0.74
2:H:284:ARG:HG3	2:H:296:GLN:NE2	2.01	0.74
6:K:231:VAL:HG12	6:K:233:SER:H	1.52	0.74
6:K:275:PHE:CZ	6:K:289:LEU:CD1	2.67	0.74
3:L:113:ARG:HG3	3:L:113:ARG:HH11	1.53	0.74
4:M:74:LYS:HA	4:M:77:SER:OG	1.87	0.74
7:N:397:THR:O	7:N:401:LYS:N	2.14	0.74
7:N:673:GLU:O	7:N:676:THR:OG1	2.05	0.74
7:N:935:ILE:O	7:N:939:GLU:N	2.19	0.74
10:Q:255:LEU:HB2	10:Q:287:LEU:HD13	1.69	0.74
11:R:146:ARG:NH1	11:R:213:LEU:CD1	2.51	0.74
11:R:99:GLU:OE1	11:R:99:GLU:N	2.21	0.74
16:W:131:LEU:O	16:W:135:LYS:N	2.21	0.74
4:0:358:ASN:O	4:0:362:ARG:NH1	2.20	0.74
7:1:708:GLN:O	7:1:712:LEU:N	2.13	0.74
8:2:11:SER:CB	8:2:22:TRP:CG	2.71	0.74
8:2:132:LYS:CB	8:2:162:TYR:CZ	2.69	0.74
2:H:402:LYS:HE2	2:H:403:ILE:HG12	1.70	0.74
1:I:356:PRO:HB2	1:I:361:LYS:HE3	1.68	0.74
1:I:387:LYS:CG	1:I:390:LEU:HB3	2.17	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:K:222:HIS:O	6:K:223:THR:O	2.05	0.74
6:K:176:GLU:CG	6:K:331:ILE:HD11	2.13	0.74
3:L:244:SER:N	3:L:245:GLU:HA	2.02	0.74
7:N:414:GLY:H	7:N:449:ILE:HG23	1.51	0.74
10:Q:203:PRO:CB	10:Q:204:PRO:HD3	2.18	0.74
13:T:328:THR:N	13:T:331:PRO:HG2	2.03	0.74
4:O:206:MET:HB2	4:O:327:LYS:HZ1	1.51	0.74
7:1:148:LYS:CE	7:1:179:TYR:CD2	2.71	0.74
8:2:4:VAL:HG11	8:2:26:GLU:OE1	1.88	0.74
10:4:260:MET:HE1	10:4:325:LYS:HB2	1.70	0.74
11:5:146:ARG:NH1	11:5:213:LEU:CD1	2.51	0.74
5:J:43:ARG:HA	5:J:46:GLN:OE1	1.86	0.74
1:I:108:SER:HA	5:J:95:PHE:CD1	2.23	0.74
3:L:195:PHE:CE1	3:L:229:ILE:HG21	2.22	0.74
18:Z:684:PRO:O	18:Z:688:ARG:N	2.17	0.74
7:1:164:GLU:C	7:1:165:LYS:HG3	2.07	0.73
7:1:791:LEU:HB2	7:1:913:ILE:HA	1.70	0.73
8:2:242:SER:C	8:2:279:GLU:OE2	2.25	0.73
11:5:228:MET:CE	11:5:263:LEU:HD22	2.17	0.73
1:I:189:GLY:HA3	1:I:360:THR:CB	2.17	0.73
1:I:234:LEU:HD13	33:I:501:ADP:C2	2.23	0.73
5:J:165:ILE:C	5:J:168:PRO:HD2	2.08	0.73
6:K:246:MET:O	6:K:249:ASP:N	2.18	0.73
6:K:235:PHE:HB2	6:K:270:ILE:HD11	1.70	0.73
3:L:338:PHE:CE1	3:L:378:LYS:HE3	2.23	0.73
2:H:119:ALA:CB	4:M:127:SER:HB3	2.11	0.73
9:P:274:VAL:HG12	9:P:287:VAL:CG2	2.17	0.73
11:R:228:MET:CE	11:R:263:LEU:HD22	2.17	0.73
7:N:11:LEU:HD21	13:T:120:LYS:CG	2.16	0.73
7:1:419:ALA:HB2	7:1:449:ILE:CD1	2.11	0.73
10:4:104:GLY:O	10:4:108:GLU:N	2.19	0.73
12:6:463:MET:O	12:6:465:ASP:N	2.21	0.73
16:AA:60:VAL:HG12	16:AA:62:THR:H	1.52	0.73
2:H:204:LEU:HD23	2:H:206:ILE:CG2	2.17	0.73
1:I:190:LEU:HD13	1:I:194:ILE:CD1	2.19	0.73
5:J:193:GLY:HA2	33:J:501:ADP:O2B	1.88	0.73
6:K:95:ALA:HA	6:K:101:ALA:CA	2.18	0.73
3:L:248:SER:HB3	6:K:279:THR:HG21	1.70	0.73
3:L:238:ILE:HD12	3:L:257:LEU:CB	2.08	0.73
4:M:399:VAL:HG23	4:M:427:VAL:CG1	2.17	0.73
12:S:285:TRP:HD1	12:S:315:LYS:HG2	1.52	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:G:166:GLN:NE2	4:0:386:ARG:HB3	2.04	0.73
8:2:35:HIS:N	16:AA:14:GLU:OE2	2.21	0.73
9:3:153:LYS:HE2	9:3:162:ALA:CB	2.18	0.73
11:5:348:ASP:HB3	11:5:353:ILE:HG22	1.69	0.73
16:AA:124:LEU:HD13	16:AA:152:LYS:HB3	1.68	0.73
1:I:387:LYS:HD3	1:I:427:LEU:HD13	1.70	0.73
5:J:187:LEU:CD1	5:J:293:MET:O	2.34	0.73
6:K:54:LEU:O	6:K:58:GLU:CB	2.30	0.73
7:N:810:THR:H	7:N:888:GLN:HE22	1.35	0.73
8:O:245:VAL:CB	8:O:276:CYS:SG	2.76	0.73
8:O:4:VAL:CG2	8:O:26:GLU:OE1	2.35	0.73
16:W:107:MET:O	16:W:137:ASN:N	2.16	0.73
18:Z:496:ASP:O	18:Z:500:LEU:N	2.19	0.73
4:0:191:LEU:O	4:0:195:ILE:HG13	1.88	0.73
10:4:203:PRO:CB	10:4:204:PRO:HD3	2.18	0.73
11:5:304:TYR:HD2	11:5:334:LEU:HD21	1.52	0.73
12:6:374:LYS:O	12:6:377:GLN:CG	2.36	0.73
5:J:338:LEU:HD22	5:J:342:ILE:HD12	1.70	0.73
4:M:212:PHE:CD1	4:M:217:ILE:CD1	2.34	0.73
7:N:427:LEU:HB3	7:N:428:PRO:CD	2.18	0.73
7:N:601:ARG:O	7:N:605:VAL:HG23	1.88	0.73
8:O:11:SER:CB	8:O:22:TRP:CG	2.71	0.73
4:0:249:LEU:HG	4:0:283:ILE:HG23	1.70	0.73
4:0:374:ASN:O	4:0:414:GLU:CA	2.36	0.73
8:2:4:VAL:CG1	8:2:26:GLU:OE1	2.35	0.73
9:3:87:ILE:O	9:3:91:SER:N	2.17	0.73
11:5:237:ARG:HB3	11:5:264:TYR:CE1	2.24	0.73
13:7:234:GLN:O	13:7:237:MET:HB2	1.88	0.73
1:I:339:PRO:HB2	2:H:425:ALA:HB1	1.69	0.73
1:I:171:VAL:HG13	1:I:277:HIS:NE2	2.04	0.73
1:I:365:PHE:CZ	1:I:383:LEU:HD12	2.22	0.73
1:I:388:ASP:OD1	1:I:389:ASP:OD1	2.07	0.73
1:I:414:VAL:HG12	1:I:415:THR:N	2.04	0.73
6:K:230:VAL:CG1	6:K:235:PHE:CE1	2.72	0.73
6:K:395:LEU:N	6:K:398:ASP:OD2	2.22	0.73
3:L:354:ALA:HB1	4:M:215:LEU:CD1	2.13	0.73
8:O:4:VAL:HG21	8:O:26:GLU:OE1	1.88	0.73
9:P:384:LEU:HD13	9:P:388:GLU:CB	2.19	0.73
11:R:127:THR:C	11:R:131:THR:HG23	2.07	0.73
18:Z:784:ASP:CB	18:Z:895:GLU:O	2.36	0.73
4:0:169:ASP:CB	4:0:172:VAL:CG2	2.64	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:0:202:ILE:HD11	4:0:329:ILE:CD1	2.18	0.73
2:H:239:ARG:HG2	2:H:239:ARG:O	1.88	0.73
1:I:103:ARG:HG3	1:I:160:ILE:HG23	1.71	0.73
4:M:191:LEU:O	4:M:195:ILE:HG13	1.88	0.73
4:M:226:TYR:CB	4:M:335:VAL:HG22	2.17	0.73
9:P:153:LYS:HE2	9:P:162:ALA:CB	2.18	0.73
12:S:469:THR:HA	14:U:254:ASN:HD21	1.51	0.73
7:N:610:VAL:HG11	14:U:178:ASP:OD2	1.88	0.73
16:W:7:MET:HA	16:W:50:GLY:H	1.54	0.73
4:0:384:LEU:C	4:0:387:CYS:HG	1.90	0.73
4:0:399:VAL:HG23	4:0:427:VAL:CG1	2.17	0.73
14:8:70:LEU:CD2	14:8:111:LEU:HD23	2.02	0.73
16:AA:131:LEU:O	16:AA:135:LYS:N	2.21	0.73
1:I:364:ILE:HG12	33:I:501:ADP:N6	2.04	0.73
6:K:145:PRO:HG2	6:K:256:GLU:CG	2.13	0.73
6:K:173:GLN:NE2	6:K:333:PHE:HA	2.03	0.73
6:K:219:VAL:O	6:K:223:THR:CB	2.32	0.73
3:L:132:TYR:HD2	3:L:146:ARG:HE	1.34	0.73
12:S:463:MET:O	12:S:465:ASP:N	2.21	0.73
7:1:601:ARG:O	7:1:605:VAL:HG23	1.88	0.73
7:1:95:GLU:O	7:1:99:THR:N	2.22	0.73
9:3:154:GLU:CG	9:3:162:ALA:HB2	2.19	0.73
11:5:204:THR:OG1	11:5:219:PHE:CZ	2.29	0.73
13:7:104:ARG:O	13:7:108:ASN:HB2	1.89	0.73
5:J:43:ARG:HG3	6:K:61:ILE:HG13	1.69	0.73
4:M:80:ILE:HG21	4:M:84:LYS:CE	2.19	0.73
7:N:559:ARG:HB3	7:N:562:GLU:HB2	1.68	0.73
11:R:71:ASN:HB3	11:R:75:LYS:NZ	2.03	0.73
14:U:256:GLN:O	14:U:260:VAL:HG23	1.88	0.73
7:1:791:LEU:O	7:1:792:ASN:CB	2.33	0.73
10:4:117:ALA:O	10:4:121:LYS:N	2.18	0.73
10:4:153:LEU:HD12	10:4:156:GLU:HB2	1.71	0.73
14:8:256:GLN:O	14:8:260:VAL:HG23	1.88	0.73
2:H:229:VAL:O	2:H:233:THR:HB	1.89	0.73
2:H:99:THR:CG2	2:H:142:VAL:HG23	2.18	0.73
1:I:343:ARG:NH2	1:I:346:ARG:NH2	2.16	0.73
1:I:247:PHE:HE2	5:J:283:PHE:CZ	2.07	0.73
6:K:116:LEU:CB	6:K:119:ILE:CD1	2.67	0.73
6:K:303:VAL:HG12	6:K:305:VAL:HG23	1.70	0.73
3:L:109:ARG:HH11	3:L:109:ARG:HB3	1.52	0.73
4:M:295:ARG:CB	4:M:295:ARG:HH11	2.02	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:374:ASN:O	4:M:414:GLU:CA	2.36	0.73
7:N:354:LYS:O	7:N:358:ASP:N	2.22	0.73
7:N:713:TYR:O	7:N:717:ILE:N	2.16	0.73
9:P:420:ASP:O	9:P:423:ASN:N	2.20	0.73
10:Q:169:VAL:O	10:Q:173:GLU:HB2	1.88	0.73
10:Q:279:TYR:O	10:Q:280:ALA:C	2.25	0.73
10:Q:46:LYS:CB	10:Q:88:LEU:HD11	2.19	0.73
11:R:237:ARG:HB3	11:R:264:TYR:CE1	2.24	0.73
10:4:302:PHE:CD1	10:4:330:LEU:HD11	2.23	0.73
14:8:94:TRP:CH2	14:8:121:LEU:CD2	2.69	0.73
18:AC:288:VAL:O	18:AC:292:LYS:N	2.22	0.73
2:H:114:ASN:HB3	2:H:120:LYS:CG	2.18	0.73
1:I:259:TYR:O	1:I:262:ASP:HB2	1.89	0.73
5:J:189:TYR:CG	5:J:298:ILE:HD11	2.21	0.73
6:K:162:VAL:CG1	6:K:214:MET:HE2	2.17	0.73
6:K:94:GLU:O	6:K:102:ILE:N	2.18	0.73
4:M:384:LEU:C	4:M:387:CYS:HG	1.92	0.73
8:O:347:LYS:CE	8:O:351:ASP:OD2	2.37	0.73
8:O:9:GLN:O	8:O:13:ASN:CB	2.37	0.73
9:P:154:GLU:CG	9:P:162:ALA:HB2	2.19	0.73
10:Q:302:PHE:CD1	10:Q:330:LEU:HD11	2.23	0.73
10:Q:84:LYS:NZ	10:Q:88:LEU:CD2	2.52	0.73
16:W:15:TYR:CE2	16:W:144:GLY:HA2	2.23	0.73
16:W:60:VAL:HG12	16:W:62:THR:H	1.52	0.73
10:4:193:ALA:HA	10:4:196:THR:HG22	1.71	0.72
11:5:99:GLU:N	11:5:99:GLU:OE1	2.21	0.72
14:8:176:LEU:HD13	14:8:179:ILE:HB	1.69	0.72
1:I:118:ASP:CG	1:I:120:HIS:HE2	1.91	0.72
6:K:322:LEU:HD13	6:K:330:LYS:HE3	1.71	0.72
4:M:223:VAL:HG12	4:M:224:LEU:N	2.04	0.72
10:Q:193:ALA:HA	10:Q:196:THR:HG22	1.71	0.72
10:Q:236:PHE:CE1	10:Q:251:LEU:CG	2.64	0.72
10:Q:289:CYS:O	10:Q:293:ALA:HB2	1.89	0.72
13:T:104:ARG:O	13:T:108:ASN:HB2	1.89	0.72
14:U:101:LEU:HD21	14:U:138:TYR:CE2	2.24	0.72
8:O:35:HIS:N	16:W:14:GLU:OE2	2.21	0.72
16:W:157:VAL:O	16:W:168:SER:OG	2.08	0.72
8:2:9:GLN:O	8:2:13:ASN:CB	2.37	0.72
11:5:345:CYS:SG	11:5:346:LYS:N	2.62	0.72
12:6:330:LYS:HG2	12:6:360:TYR:CE2	2.17	0.72
13:7:116:LEU:O	13:7:120:LYS:CB	2.34	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AC:765:ALA:O	18:AC:769:THR:N	2.21	0.72
5:J:194:THR:C	33:J:501:ADP:N7	2.42	0.72
6:K:247:VAL:CG1	6:K:251:PHE:CE2	2.71	0.72
3:L:352:MET:O	3:L:356:ARG:CG	2.36	0.72
4:M:224:LEU:HD12	4:M:330:ALA:O	1.89	0.72
10:Q:194:ARG:NH1	10:Q:214:SER:CB	2.52	0.72
10:4:212:MET:CE	10:4:250:SER:HB2	2.19	0.72
10:4:41:GLU:O	10:4:45:VAL:N	2.21	0.72
13:7:164:PHE:O	13:7:168:MET:N	2.17	0.72
16:AA:107:MET:O	16:AA:137:ASN:N	2.16	0.72
18:AC:444:ALA:HA	18:AC:447:ALA:HB3	1.72	0.72
18:AC:784:ASP:CB	18:AC:895:GLU:O	2.36	0.72
20:C:191:ILE:HG21	20:C:229:LEU:CD2	2.19	0.72
1:I:112:LEU:HB2	1:I:148:CYS:H	1.53	0.72
1:I:263:GLY:N	1:I:264:PRO:CD	2.51	0.72
5:J:203:VAL:O	5:J:207:THR:HB	1.89	0.72
4:M:54:ILE:O	4:M:58:GLU:N	2.16	0.72
4:M:80:ILE:HG22	4:M:84:LYS:CD	2.11	0.72
8:O:4:VAL:CG2	8:O:26:GLU:CD	2.58	0.72
10:Q:212:MET:CE	10:Q:250:SER:HB2	2.19	0.72
4:0:373:MET:HE3	4:0:415:LEU:CD1	2.12	0.72
4:0:402:GLU:OE2	4:0:426:GLU:OE1	2.07	0.72
4:0:83:ASN:HA	4:0:161:LEU:CD1	2.17	0.72
7:1:427:LEU:HB3	7:1:428:PRO:CD	2.18	0.72
8:2:4:VAL:CG1	8:2:26:GLU:CD	2.58	0.72
9:3:343:SER:O	9:3:348:GLU:CB	2.38	0.72
9:3:384:LEU:HD13	9:3:388:GLU:CB	2.19	0.72
14:8:101:LEU:HD21	14:8:138:TYR:CE2	2.24	0.72
16:AA:53:THR:N	16:AA:59:GLU:O	2.21	0.72
18:AC:698:SER:CA	18:AC:702:PRO:CB	2.68	0.72
2:H:125:LEU:CD1	2:H:129:VAL:CG2	2.67	0.72
2:H:125:LEU:HD13	2:H:129:VAL:CG2	2.19	0.72
2:H:166:VAL:O	2:H:168:GLU:N	2.22	0.72
1:I:154:HIS:HE1	5:J:95:PHE:CE1	2.08	0.72
6:K:215:LEU:HD23	6:K:333:PHE:HZ	1.53	0.72
6:K:370:ILE:HG23	6:K:374:ASP:HB2	1.72	0.72
3:L:322:LYS:HZ2	3:L:326:ILE:HD12	1.51	0.72
11:R:348:ASP:HB3	11:R:353:ILE:HG22	1.69	0.72
18:Z:403:LYS:O	18:Z:404:ASP:CB	2.36	0.72
7:1:153:ILE:O	7:1:157:THR:N	2.18	0.72
10:4:202:CYS:O	10:4:206:LEU:HD22	1.88	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:E:137:ASP:OD2	22:E:143:ARG:NH1	2.22	0.72
23:F:84:ASP:OD2	23:F:135:ARG:NH2	2.22	0.72
2:H:102:ILE:CD1	2:H:120:LYS:HD2	2.18	0.72
2:H:139:ARG:NH1	2:H:156:LYS:HG3	2.05	0.72
2:H:208:PRO:O	2:H:210:LYS:N	2.23	0.72
1:I:180:PRO:HG2	1:I:241:ASN:CA	2.19	0.72
5:J:250:GLU:O	5:J:269:VAL:HG21	1.90	0.72
6:K:116:LEU:CB	6:K:119:ILE:HD11	2.20	0.72
4:M:83:ASN:HA	4:M:161:LEU:CD1	2.17	0.72
4:M:180:ARG:NH2	4:M:246:ALA:O	2.23	0.72
4:M:375:VAL:C	4:M:414:GLU:HG3	2.10	0.72
11:R:134:LEU:CD1	11:R:138:LEU:CG	2.68	0.72
15:V:203:ILE:CG2	15:V:204:THR:N	2.46	0.72
4:O:223:VAL:HG12	4:O:224:LEU:N	2.04	0.72
4:O:375:VAL:C	4:O:414:GLU:HG3	2.10	0.72
7:1:724:VAL:O	7:1:728:PHE:HB2	1.89	0.72
14:8:79:TYR:CE2	14:8:91:ILE:CB	2.71	0.72
18:AC:670:MET:O	18:AC:674:THR:N	2.23	0.72
5:J:273:MET:CE	5:J:293:MET:SD	2.78	0.72
5:J:339:THR:OG1	5:J:377:HIS:HB3	1.90	0.72
6:K:299:PHE:CE1	6:K:303:VAL:HG11	2.23	0.72
6:K:267:ILE:CD1	6:K:309:MET:HB3	2.15	0.72
6:K:381:GLU:HG3	6:K:405:THR:HG21	1.71	0.72
6:K:97:ASP:OD1	6:K:98:GLN:N	2.23	0.72
3:L:101:ASP:OD2	3:L:104:THR:N	2.23	0.72
7:N:714:SER:O	7:N:718:ASN:N	2.19	0.72
11:R:345:CYS:SG	11:R:346:LYS:N	2.62	0.72
13:T:338:GLN:O	13:T:342:TYR:N	2.19	0.72
18:Z:247:ALA:O	18:Z:251:CYS:N	2.22	0.72
18:Z:444:ALA:HA	18:Z:447:ALA:HB3	1.72	0.72
4:O:295:ARG:HH11	4:O:295:ARG:CB	2.02	0.72
7:1:347:ASN:HD22	7:1:743:ASN:HD21	1.36	0.72
10:4:194:ARG:NH1	10:4:214:SER:CB	2.52	0.72
10:4:46:LYS:CB	10:4:88:LEU:HD11	2.19	0.72
10:4:84:LYS:NZ	10:4:88:LEU:CD2	2.52	0.72
14:8:185:GLY:O	14:8:186:THR:OG1	2.07	0.72
1:I:109:VAL:HB	5:J:94:LYS:O	1.88	0.72
3:L:51:GLN:O	3:L:53:VAL:CG2	2.38	0.72
4:M:249:LEU:HG	4:M:283:ILE:HG23	1.70	0.72
10:Q:157:LEU:CB	10:Q:166:LEU:HD12	2.19	0.72
14:U:176:LEU:HD13	14:U:179:ILE:HB	1.69	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:Z:765:ALA:O	18:Z:769:THR:N	2.21	0.72
7:1:202:VAL:O	7:1:206:MET:N	2.18	0.72
10:4:96:PHE:HE2	10:4:106:GLU:HA	1.55	0.72
11:5:379:ARG:HH11	11:5:379:ARG:HG3	1.55	0.72
16:AA:7:MET:HA	16:AA:50:GLY:H	1.54	0.72
18:AC:247:ALA:O	18:AC:251:CYS:N	2.22	0.72
19:B:171:LYS:HB3	19:B:205:VAL:CG2	2.18	0.72
1:I:283:PHE:HD1	1:I:328:ILE:CB	2.02	0.72
5:J:114:VAL:CG1	5:J:126:ILE:HG12	2.19	0.72
6:K:407:ILE:HD12	6:K:407:ILE:H	1.54	0.72
7:N:799:LYS:HD3	7:N:880:ASN:HD21	1.55	0.72
7:N:791:LEU:HB2	7:N:913:ILE:HA	1.70	0.72
14:U:67:VAL:HG11	16:W:88:THR:HG23	1.72	0.72
18:Z:288:VAL:O	18:Z:292:LYS:N	2.22	0.72
4:0:224:LEU:HD12	4:0:330:ALA:O	1.89	0.72
4:0:80:ILE:HG21	4:0:84:LYS:CE	2.19	0.72
8:2:284:ARG:HH11	8:2:291:LEU:HD23	1.54	0.72
8:2:347:LYS:CE	8:2:351:ASP:OD2	2.37	0.72
5:J:91:PRO:O	5:J:92:GLU:O	2.08	0.72
3:L:215:ILE:HD11	3:L:260:LEU:HD21	1.72	0.72
7:N:801:GLN:HB3	7:N:879:ASP:H	1.55	0.72
11:R:229:ILE:HD11	11:R:295:TYR:CE2	2.24	0.72
11:R:344:HIS:CG	11:R:359:PRO:HD3	2.25	0.72
13:T:335:LEU:O	13:T:339:VAL:N	2.16	0.72
14:U:131:LEU:CD1	14:U:199:LYS:CD	2.67	0.72
4:0:226:TYR:HB3	4:0:335:VAL:HG22	1.71	0.72
8:2:374:ILE:HD13	14:8:188:SER:CA	2.20	0.72
10:4:289:CYS:O	10:4:293:ALA:HB2	1.89	0.72
12:6:327:THR:O	12:6:330:LYS:HB2	1.90	0.72
15:9:35:SER:CB	15:9:213:GLU:OE2	2.38	0.72
15:9:291:LEU:O	15:9:295:ASN:HB2	1.90	0.72
23:F:16:SER:OG	23:F:20:ARG:HG2	1.89	0.72
2:H:219:GLY:O	2:H:381:THR:HB	1.90	0.72
2:H:272:ILE:HG21	2:H:274:PHE:CZ	2.25	0.72
2:H:334:PRO:CG	2:H:334:PRO:O	2.37	0.72
2:H:83:ASP:O	2:H:87:LEU:N	2.20	0.72
1:I:107:MET:HE1	1:I:151:LEU:HB3	1.70	0.72
1:I:392:GLY:CA	33:I:501:ADP:N7	2.53	0.72
1:I:234:LEU:CG	33:I:501:ADP:H2'	2.20	0.72
6:K:337:ASP:O	6:K:341:LYS:HD2	1.90	0.72
6:K:384:MET:SD	6:K:384:MET:N	2.61	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:S:328:VAL:CG1	12:S:329:HIS:H	2.03	0.72
14:U:94:TRP:CH2	14:U:121:LEU:CD2	2.69	0.72
15:V:229:LEU:CD1	15:V:305:ASP:OD1	2.36	0.72
16:W:169:HIS:CD2	16:W:187:PRO:CB	2.67	0.72
16:W:63:THR:HG23	16:W:64:LEU:N	2.05	0.72
18:Z:227:ALA:O	18:Z:228:LYS:C	2.26	0.72
10:4:108:GLU:O	10:4:112:GLU:HG3	1.90	0.71
15:9:229:LEU:CD1	15:9:305:ASP:OD1	2.36	0.71
2:H:296:GLN:NE2	2:H:299:MET:SD	2.63	0.71
1:I:133:VAL:HG23	1:I:159:VAL:HG23	1.69	0.71
3:L:257:LEU:O	3:L:261:LEU:HD11	1.90	0.71
4:M:402:GLU:OE2	4:M:426:GLU:OE1	2.07	0.71
5:J:149:GLU:HG2	11:R:133:ALA:HB1	1.71	0.71
15:V:227:GLU:OE1	15:V:228:GLY:N	2.23	0.71
9:P:432:LEU:HD22	15:V:309:PHE:CD2	2.25	0.71
7:1:801:GLN:HB3	7:1:879:ASP:H	1.55	0.71
23:F:18:GLU:OE2	4:0:431:LYS:CG	2.38	0.71
2:H:218:PRO:CD	2:H:429:TYR:CD2	2.71	0.71
6:K:141:ASP:OD1	6:K:142:VAL:N	2.22	0.71
7:N:724:VAL:O	7:N:728:PHE:HB2	1.89	0.71
8:O:109:GLU:CG	8:O:110:ALA:H	2.02	0.71
10:Q:96:PHE:HE2	10:Q:106:GLU:HA	1.55	0.71
12:S:175:MET:HB3	12:S:184:ALA:HB2	1.72	0.71
18:Z:670:MET:O	18:Z:674:THR:N	2.23	0.71
11:5:117:LYS:HB2	11:5:151:TYR:CE2	2.25	0.71
13:7:269:ASP:O	13:7:273:GLY:N	2.18	0.71
9:3:443:THR:HG21	14:8:204:LYS:CD	2.19	0.71
2:H:247:GLN:N	2:H:247:GLN:NE2	2.36	0.71
2:H:330:ALA:CA	2:H:336:ARG:HH11	2.04	0.71
6:K:53:PHE:O	6:K:57:GLN:OE1	2.08	0.71
6:K:82:ILE:HG21	6:K:116:LEU:CD1	2.12	0.71
3:L:166:PRO:HB2	3:L:274:LYS:NZ	2.05	0.71
6:K:41:TYR:CE1	7:N:183:LEU:CD2	2.73	0.71
7:N:95:GLU:O	7:N:99:THR:N	2.22	0.71
11:R:51:ALA:O	11:R:54:TYR:N	2.24	0.71
13:T:299:MET:CG	13:T:300:THR:H	2.03	0.71
15:V:88:ASP:OD1	15:V:89:PRO:CD	2.38	0.71
7:1:810:THR:H	7:1:888:GLN:HE22	1.35	0.71
10:4:183:LEU:CD1	10:4:220:ALA:CB	2.61	0.71
13:7:299:MET:CG	13:7:300:THR:H	2.03	0.71
2:H:254:ALA:HB1	2:H:258:ARG:NH2	2.06	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:112:LEU:N	1:I:148:CYS:O	2.21	0.71
1:I:164:MET:HE3	5:J:78:ARG:HH12	1.55	0.71
1:I:366:GLN:O	1:I:370:SER:CB	2.36	0.71
5:J:189:TYR:CD1	5:J:298:ILE:CD1	2.61	0.71
3:L:243:PHE:O	3:L:244:SER:OG	2.09	0.71
4:M:79:LYS:O	4:M:83:ASN:HB2	1.90	0.71
9:P:443:THR:HG21	14:U:204:LYS:CD	2.19	0.71
8:2:248:PHE:CE1	8:2:272:ILE:CG1	2.71	0.71
9:3:384:LEU:HD13	9:3:392:PHE:CE2	2.25	0.71
12:6:330:LYS:O	12:6:334:VAL:HG23	1.90	0.71
9:3:432:LEU:HD22	15:9:309:PHE:CD2	2.25	0.71
5:J:151:ILE:O	5:J:152:GLY:C	2.26	0.71
5:J:339:THR:HA	11:R:207:THR:CG2	2.21	0.71
5:J:69:GLN:NE2	5:J:69:GLN:HA	2.06	0.71
6:K:345:PHE:CD1	6:K:360:LEU:HD21	2.26	0.71
6:K:371:SER:C	6:K:375:ILE:HD11	2.11	0.71
4:M:310:MET:HE1	4:M:339:ASP:OD2	1.90	0.71
4:M:388:THR:HG22	4:M:391:PHE:CD2	2.25	0.71
4:M:64:HIS:O	4:M:68:ALA:N	2.23	0.71
7:N:364:VAL:O	7:N:367:THR:HB	1.91	0.71
10:Q:114:ILE:HG12	10:Q:129:LEU:HD22	1.71	0.71
8:O:338:PRO:HG3	14:U:232:ASP:OD1	1.91	0.71
12:6:278:GLU:O	12:6:279:GLN:C	2.29	0.71
14:8:67:VAL:HG11	16:AA:88:THR:HG23	1.72	0.71
15:9:293:THR:O	15:9:297:VAL:HG22	1.91	0.71
9:P:154:GLU:CG	9:P:162:ALA:CB	2.69	0.71
10:Q:183:LEU:O	10:Q:187:ARG:CB	2.39	0.71
10:Q:82:LYS:HG2	10:Q:120:GLU:OE2	1.90	0.71
11:R:260:LEU:HD22	11:R:260:LEU:O	1.91	0.71
8:2:109:GLU:CG	8:2:110:ALA:H	2.02	0.71
8:2:338:PRO:HG3	14:8:232:ASP:OD1	1.91	0.71
11:5:289:ALA:HB3	11:5:290:PRO:CD	2.20	0.71
12:6:328:VAL:CG1	12:6:329:HIS:H	2.03	0.71
8:2:370:GLN:C	13:7:340:ILE:HG21	2.11	0.71
15:9:234:TYR:CE1	15:9:298:GLN:NE2	2.59	0.71
2:H:373:LEU:O	2:H:377:CYS:SG	2.49	0.71
1:I:174:MET:O	1:I:248:LEU:HA	1.91	0.71
6:K:92:PHE:N	6:K:128:ALA:O	2.23	0.71
4:M:171:ARG:NH2	4:M:263:ASP:OD1	2.23	0.71
4:M:314:LEU:HD21	4:M:342:LEU:HD21	1.73	0.71
7:N:643:SER:O	7:N:649:ARG:NE	2.24	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:O:27:GLU:O	8:O:31:LYS:N	2.19	0.71
9:P:343:SER:O	9:P:348:GLU:CB	2.38	0.71
10:Q:153:LEU:HD12	10:Q:156:GLU:HB2	1.71	0.71
18:Z:758:ASN:O	18:Z:762:VAL:N	2.21	0.71
4:0:308:ARG:O	4:0:312:GLU:N	2.18	0.71
4:0:79:LYS:O	4:0:83:ASN:HB2	1.90	0.71
7:1:643:SER:O	7:1:649:ARG:NE	2.24	0.71
10:4:82:LYS:HG2	10:4:120:GLU:OE2	1.90	0.71
11:5:344:HIS:CG	11:5:359:PRO:HD3	2.25	0.71
18:AC:403:LYS:O	18:AC:404:ASP:CB	2.36	0.71
24:G:5:GLN:HE22	25:X:4:GLY:CA	2.04	0.71
6:K:227:PHE:CE1	6:K:261:ILE:HG21	2.26	0.71
3:L:303:LEU:HD13	3:L:337:GLY:O	1.89	0.71
4:M:308:ARG:O	4:M:312:GLU:N	2.18	0.71
8:O:3:ASP:O	8:O:7:PHE:N	2.23	0.71
4:0:180:ARG:NH2	4:0:246:ALA:O	2.23	0.71
7:1:364:VAL:O	7:1:367:THR:HB	1.91	0.71
8:2:342:ASP:CG	8:2:343:LEU:H	1.94	0.71
9:3:360:GLU:O	9:3:364:ARG:HB2	1.90	0.71
9:3:373:ILE:HG21	9:3:415:PHE:CE2	2.25	0.71
10:4:183:LEU:O	10:4:187:ARG:CB	2.39	0.71
11:5:51:ALA:O	11:5:54:TYR:N	2.24	0.71
13:7:141:LEU:HD13	13:7:182:LEU:HD13	1.73	0.71
16:AA:157:VAL:O	16:AA:168:SER:OG	2.08	0.71
18:AC:227:ALA:O	18:AC:228:LYS:C	2.26	0.71
19:B:206:LEU:O	19:B:207:SER:OG	2.08	0.71
22:E:33:VAL:HG11	22:E:168:VAL:HG11	1.73	0.71
23:F:42:THR:HG22	23:F:44:GLU:H	1.56	0.71
1:I:195:GLN:O	1:I:199:GLU:HB2	1.91	0.71
1:I:271:PHE:HB3	1:I:315:GLN:HE22	1.55	0.71
6:K:394:VAL:HG13	6:K:398:ASP:OD2	1.90	0.71
3:L:230:ILE:HB	3:L:275:MET:HG2	1.73	0.71
4:M:136:VAL:C	4:M:138:GLY:H	1.94	0.71
7:N:347:ASN:HD22	7:N:743:ASN:HD21	1.36	0.71
9:P:384:LEU:HD13	9:P:392:PHE:CE2	2.25	0.71
12:S:330:LYS:O	12:S:334:VAL:HG23	1.90	0.71
10:Q:400:ALA:CB	14:U:262:LEU:HD11	2.21	0.71
18:Z:163:ALA:O	18:Z:167:ALA:N	2.24	0.71
7:1:673:GLU:O	7:1:676:THR:OG1	2.05	0.71
15:9:237:HIS:C	15:9:237:HIS:CD2	2.65	0.71
19:B:67:THR:HG22	19:B:69:LEU:H	1.54	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:363:ARG:O	1:I:367:ILE:CD1	2.39	0.71
3:L:242:ARG:HG3	3:L:242:ARG:HH11	1.56	0.71
3:L:255:ARG:HG3	3:L:255:ARG:NH2	2.01	0.71
4:M:226:TYR:CG	4:M:335:VAL:CG2	2.65	0.71
4:M:89:LEU:HD21	4:M:126:THR:HB	1.73	0.71
9:P:373:ILE:HG21	9:P:415:PHE:CE2	2.25	0.71
10:Q:332:GLU:OE1	10:Q:364:LYS:CE	2.39	0.71
4:O:136:VAL:C	4:O:138:GLY:H	1.94	0.70
7:1:616:ARG:CZ	7:1:650:TYR:CE2	2.72	0.70
7:1:714:SER:O	7:1:718:ASN:N	2.19	0.70
10:4:118:LYS:HE2	10:4:126:ARG:CZ	2.21	0.70
10:4:97:LEU:HD23	10:4:106:GLU:CG	2.21	0.70
11:5:134:LEU:CD1	11:5:138:LEU:CG	2.68	0.70
14:8:12:HIS:CD2	14:8:51:SER:HA	2.26	0.70
1:I:271:PHE:CZ	1:I:316:LEU:HD13	2.17	0.70
6:K:205:TYR:HA	6:K:311:THR:O	1.91	0.70
6:K:366:ARG:HH11	6:K:403:TYR:HD2	1.34	0.70
4:M:169:ASP:OD2	4:M:270:ASP:OD2	2.09	0.70
7:N:419:ALA:CB	7:N:449:ILE:HD13	2.14	0.70
9:P:360:GLU:O	9:P:364:ARG:HB2	1.90	0.70
10:Q:37:GLU:H	10:Q:38:ASN:HA	1.56	0.70
11:R:21:GLN:HG3	11:R:286:TRP:HZ3	1.53	0.70
11:R:379:ARG:HG3	11:R:379:ARG:HH11	1.55	0.70
15:V:35:SER:CB	15:V:213:GLU:OE2	2.38	0.70
9:3:128:LEU:HA	9:3:131:VAL:HG12	1.74	0.70
10:4:225:TRP:HZ2	10:4:322:HIS:HE2	1.37	0.70
10:4:37:GLU:H	10:4:38:ASN:HA	1.56	0.70
1:I:401:GLU:CB	1:I:422:SER:CB	2.66	0.70
5:J:148:TYR:CD2	5:J:206:HIS:HD2	2.08	0.70
6:K:179:GLU:O	6:K:184:PRO:HG2	1.91	0.70
6:K:215:LEU:HD22	6:K:333:PHE:CZ	2.26	0.70
6:K:82:ILE:HD13	6:K:82:ILE:O	1.91	0.70
3:L:326:ILE:HG21	3:L:328:TYR:CZ	2.25	0.70
7:N:560:MET:HA	7:N:589:ALA:HB1	1.74	0.70
11:R:289:ALA:HB3	11:R:290:PRO:CD	2.20	0.70
12:S:165:ALA:HB3	12:S:203:LEU:CD1	2.19	0.70
18:Z:412:ALA:HA	18:Z:447:ALA:CB	2.21	0.70
4:O:64:HIS:O	4:O:68:ALA:N	2.23	0.70
15:9:227:GLU:OE1	15:9:228:GLY:N	2.23	0.70
1:I:288:ASP:OD2	1:I:292:THR:HG21	1.91	0.70
1:I:223:ILE:HD11	1:I:347:ILE:HG21	1.67	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:J:326:LEU:HD13	5:J:345:ARG:HG2	1.71	0.70
6:K:167:ILE:HD11	6:K:218:ALA:HB2	1.72	0.70
6:K:149:SER:CB	6:K:250:VAL:HG22	2.21	0.70
3:L:145:LEU:HD12	3:L:299:ILE:CD1	2.21	0.70
3:L:383:LYS:CG	3:L:386:TYR:CZ	2.74	0.70
4:M:87:PRO:HB3	4:M:155:LYS:HE2	1.69	0.70
8:O:284:ARG:HH11	8:O:291:LEU:HD23	1.54	0.70
10:Q:37:GLU:N	10:Q:38:ASN:HA	2.07	0.70
12:S:231:LEU:O	12:S:235:LEU:HB2	1.91	0.70
4:O:388:THR:HG22	4:O:391:PHE:CD2	2.25	0.70
10:4:114:ILE:HG12	10:4:129:LEU:HD22	1.71	0.70
10:4:332:GLU:OE1	10:4:364:LYS:CE	2.39	0.70
15:9:88:ASP:OD1	15:9:89:PRO:CD	2.38	0.70
18:AC:747:GLN:O	18:AC:750:GLN:N	2.25	0.70
2:H:143:ASP:OD2	2:H:146:LYS:HG3	1.91	0.70
5:J:195:GLY:CA	33:J:501:ADP:N7	2.55	0.70
3:L:248:SER:CB	6:K:279:THR:HG21	2.21	0.70
4:M:358:ASN:O	4:M:362:ARG:CZ	2.39	0.70
7:N:35:TRP:HA	7:N:38:ILE:HB	1.73	0.70
8:O:242:SER:O	8:O:279:GLU:CD	2.30	0.70
10:Q:118:LYS:HE2	10:Q:126:ARG:CZ	2.21	0.70
10:Q:41:GLU:O	10:Q:45:VAL:N	2.21	0.70
18:Z:698:SER:CA	18:Z:702:PRO:CB	2.68	0.70
4:O:288:LEU:N	4:O:332:THR:HG22	2.07	0.70
7:1:799:LYS:HD3	7:1:880:ASN:HD21	1.55	0.70
9:3:131:VAL:CG1	9:3:142:ARG:HB2	2.22	0.70
9:3:154:GLU:CG	9:3:162:ALA:CB	2.69	0.70
9:3:421:PRO:CD	9:3:422:ASN:H	2.04	0.70
10:4:239:TYR:O	10:4:244:SER:HA	1.92	0.70
10:4:248:ILE:HG22	10:4:283:GLN:OE1	1.91	0.70
10:4:76:PHE:O	10:4:80:ILE:N	2.25	0.70
2:H:206:ILE:HG13	2:H:207:GLU:N	2.05	0.70
2:H:215:PHE:CG	2:H:324:PRO:HG3	2.26	0.70
6:K:200:ARG:NH2	6:K:299:PHE:HB2	2.06	0.70
6:K:92:PHE:CE2	6:K:124:LEU:CD2	2.74	0.70
3:L:171:LEU:HD12	3:L:277:MET:C	2.11	0.70
3:L:172:LEU:HD22	3:L:301:ILE:CD1	2.19	0.70
7:N:153:ILE:O	7:N:157:THR:N	2.18	0.70
8:O:342:ASP:CG	8:O:343:LEU:H	1.94	0.70
10:Q:183:LEU:CD1	10:Q:220:ALA:CB	2.61	0.70
11:R:186:LEU:CA	11:R:201:PHE:CZ	2.58	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:R:221:THR:HG22	11:R:253:LEU:HD11	1.74	0.70
25:X:83:ASP:OD2	25:X:129:ARG:NH2	2.24	0.70
9:3:384:LEU:HD11	9:3:392:PHE:CE2	2.27	0.70
11:5:229:ILE:HG13	11:5:295:TYR:CZ	2.24	0.70
15:9:254:ASN:HB3	15:9:280:PRO:HB3	1.74	0.70
16:AA:25:ARG:NH1	16:AA:143:PHE:HB3	2.07	0.70
20:C:132:SER:CB	20:C:162:MET:CE	2.65	0.70
2:H:180:CYS:SG	2:H:183:GLN:HG2	2.28	0.70
1:I:122:ILE:CD1	1:I:130:GLU:C	2.59	0.70
1:I:200:SER:C	1:I:219:PRO:CG	2.59	0.70
5:J:247:PHE:HE1	5:J:292:ILE:HG21	1.53	0.70
6:K:212:LYS:HA	6:K:333:PHE:CE2	2.26	0.70
6:K:173:GLN:NE2	6:K:332:GLU:O	2.24	0.70
9:P:203:GLN:O	9:P:206:SER:OG	2.09	0.70
10:Q:108:GLU:O	10:Q:112:GLU:HG3	1.90	0.70
10:Q:239:TYR:O	10:Q:244:SER:HA	1.92	0.70
10:Q:294:SER:HA	10:Q:330:LEU:CD2	2.21	0.70
10:Q:76:PHE:O	10:Q:80:ILE:N	2.25	0.70
15:V:234:TYR:CE1	15:V:298:GLN:NE2	2.59	0.70
7:1:741:GLY:O	7:1:743:ASN:ND2	2.24	0.70
9:3:203:GLN:O	9:3:206:SER:OG	2.09	0.70
10:4:294:SER:HA	10:4:330:LEU:CD2	2.21	0.70
10:4:397:TYR:HD2	11:5:365:GLN:OE1	1.75	0.70
12:6:175:MET:HB3	12:6:184:ALA:HB2	1.72	0.70
14:8:270:VAL:HG11	15:9:285:GLU:HG3	1.74	0.70
20:C:110:VAL:HG22	20:C:135:ILE:HD12	1.73	0.70
2:H:416:VAL:HA	2:H:420:TYR:HD2	1.57	0.70
1:I:114:GLU:HA	1:I:114:GLU:OE1	1.92	0.70
1:I:107:MET:CE	1:I:151:LEU:HB3	2.22	0.70
1:I:180:PRO:HG3	1:I:240:ALA:O	1.91	0.70
1:I:286:GLU:N	1:I:330:ALA:O	2.21	0.70
1:I:393:ALA:O	1:I:396:LYS:N	2.25	0.70
1:I:92:GLN:O	1:I:96:ARG:N	2.17	0.70
3:L:150:GLU:O	3:L:153:LEU:CD1	2.39	0.70
3:L:338:PHE:CE1	3:L:378:LYS:CE	2.74	0.70
11:R:234:PRO:O	11:R:237:ARG:HG3	1.91	0.70
10:Q:415:TYR:CE1	11:R:383:LEU:CB	2.75	0.70
15:V:241:ASN:O	15:V:245:VAL:HG23	1.91	0.70
15:V:293:THR:O	15:V:297:VAL:HG22	1.91	0.70
15:V:291:LEU:O	15:V:295:ASN:HB2	1.90	0.70
16:W:25:ARG:NH1	16:W:143:PHE:HB3	2.07	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:W:53:THR:N	16:W:59:GLU:O	2.21	0.70
4:0:89:LEU:HD21	4:0:126:THR:HB	1.73	0.70
4:0:293:THR:HG23	4:0:337:ILE:HG22	1.74	0.70
7:1:887:ALA:O	7:1:890:LYS:N	2.25	0.70
8:2:245:VAL:HG21	8:2:300:ALA:HA	1.74	0.70
8:2:341:LEU:HB2	8:2:345:GLN:OE1	1.91	0.70
9:3:48:LEU:CD2	9:3:90:LEU:CD1	2.62	0.70
10:4:37:GLU:N	10:4:38:ASN:HA	2.07	0.70
11:5:186:LEU:CA	11:5:201:PHE:CZ	2.58	0.70
11:5:33:GLY:H	11:5:34:ASP:CB	2.05	0.70
12:6:231:LEU:O	12:6:235:LEU:HB2	1.91	0.70
15:9:48:GLY:O	15:9:49:VAL:C	2.30	0.70
2:H:319:MET:CE	2:H:337:LEU:HD11	2.22	0.70
1:I:180:PRO:HD2	1:I:241:ASN:HA	1.73	0.70
5:J:339:THR:HG22	5:J:340:ARG:H	1.56	0.70
6:K:75:ALA:O	6:K:79:VAL:HG23	1.91	0.70
3:L:108:MET:O	3:L:109:ARG:HB2	1.90	0.70
3:L:156:PRO:HA	3:L:159:PHE:HD2	1.56	0.70
3:L:327:ASP:OD1	3:L:330:ALA:HB2	1.88	0.70
7:N:887:ALA:O	7:N:890:LYS:N	2.25	0.70
8:O:374:ILE:HD13	14:U:188:SER:CA	2.20	0.70
14:U:270:VAL:HG11	15:V:285:GLU:HG3	1.74	0.70
15:V:146:ASP:OD2	15:V:149:GLN:CG	2.40	0.70
15:V:254:ASN:HB3	15:V:280:PRO:HB3	1.74	0.70
15:V:96:LEU:HD13	15:V:100:LYS:NZ	2.07	0.70
4:0:169:ASP:OD2	4:0:270:ASP:OD2	2.09	0.70
4:0:80:ILE:CG2	4:0:84:LYS:HE3	2.22	0.70
7:1:667:GLU:CG	7:1:668:ALA:H	2.05	0.70
9:3:200:ILE:CG1	9:3:201:ARG:N	2.54	0.70
9:3:453:HIS:C	9:3:454:ASN:HD22	1.95	0.70
10:4:183:LEU:O	10:4:187:ARG:HB3	1.92	0.70
11:5:221:THR:HG22	11:5:253:LEU:CD1	2.21	0.70
11:5:221:THR:HG22	11:5:253:LEU:HD11	1.74	0.70
10:4:400:ALA:CB	14:8:262:LEU:HD11	2.21	0.70
18:AC:163:ALA:O	18:AC:167:ALA:N	2.24	0.70
18:AC:485:LEU:HA	18:AC:488:ALA:HB3	1.72	0.70
21:D:154:GLY:O	22:E:81:ARG:NH2	2.24	0.70
2:H:103:ASN:CB	2:H:136:GLU:OE2	2.38	0.70
2:H:233:THR:CG2	2:H:234:ASP:N	2.54	0.70
1:I:152:LEU:HD22	1:I:157:HIS:O	1.92	0.70
1:I:232:LYS:NZ	1:I:332:ASN:ND2	2.39	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:402:ALA:HB1	1:I:414:VAL:CG1	2.19	0.70
3:L:180:LYS:NZ	3:L:280:ASN:OD1	2.24	0.70
3:L:322:LYS:NZ	3:L:328:TYR:CZ	2.60	0.70
4:M:142:ALA:O	4:M:145:LEU:CA	2.39	0.70
7:N:154:ALA:O	7:N:158:ARG:N	2.24	0.70
7:N:741:GLY:O	7:N:743:ASN:ND2	2.24	0.70
7:N:74:PHE:O	7:N:78:LEU:N	2.21	0.70
12:S:278:GLU:O	12:S:279:GLN:C	2.29	0.70
12:S:327:THR:O	12:S:330:LYS:HB2	1.90	0.70
4:O:197:GLU:OE2	4:O:350:ARG:NH2	2.25	0.70
4:O:399:VAL:CA	4:O:427:VAL:CG2	2.43	0.70
14:8:94:TRP:CZ3	14:8:121:LEU:HD11	2.27	0.70
15:9:241:ASN:O	15:9:245:VAL:HG23	1.91	0.70
16:AA:63:THR:HG23	16:AA:64:LEU:N	2.05	0.70
2:H:353:HIS:O	2:H:357:ILE:CD1	2.40	0.70
2:H:373:LEU:CD1	2:H:410:LEU:HD23	2.22	0.70
6:K:115:ILE:HD11	6:K:121:ARG:HH12	1.47	0.70
6:K:116:LEU:HB2	6:K:119:ILE:CD1	2.22	0.70
6:K:64:GLU:C	6:K:68:LEU:HD12	2.12	0.70
3:L:146:ARG:NH1	3:L:150:GLU:OE1	2.25	0.70
3:L:325:GLU:CD	3:L:364:GLN:HG2	2.10	0.70
4:M:93:VAL:HA	4:M:124:ILE:HG12	1.73	0.70
7:N:202:VAL:O	7:N:206:MET:N	2.18	0.70
11:R:117:LYS:HB2	11:R:151:TYR:CE2	2.25	0.70
11:R:151:TYR:O	11:R:152:MET:HB2	1.92	0.70
12:S:328:VAL:O	12:S:331:LEU:N	2.25	0.70
14:U:12:HIS:CD2	14:U:51:SER:HA	2.26	0.70
15:V:101:GLN:HE21	16:W:101:GLN:CD	1.95	0.70
15:V:237:HIS:C	15:V:237:HIS:CD2	2.65	0.70
4:O:226:TYR:CB	4:O:335:VAL:HG22	2.17	0.69
4:O:93:VAL:HA	4:O:124:ILE:HG12	1.73	0.69
7:1:360:VAL:HG12	7:1:361:ARG:N	2.07	0.69
7:1:616:ARG:CD	7:1:650:TYR:CD2	2.75	0.69
7:1:616:ARG:HH21	7:1:647:HIS:HA	1.57	0.69
9:3:420:ASP:CB	9:3:421:PRO:CD	2.70	0.69
17:AB:55:GLN:HA	17:AB:58:ALA:HB3	1.74	0.69
2:H:174:TYR:HE2	2:H:184:ILE:CG2	2.01	0.69
1:I:349:ARG:NH2	2:H:394:MET:CG	2.52	0.69
2:H:405:THR:N	2:H:408:ASP:OD2	2.24	0.69
1:I:284:ILE:CG2	1:I:287:ILE:CG2	2.69	0.69
5:J:144:PRO:O	5:J:201:ARG:HG3	1.91	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:K:116:LEU:CA	6:K:119:ILE:CD1	2.70	0.69
6:K:354:LEU:H	6:K:393:ILE:HG12	1.57	0.69
7:N:406:ALA:CA	7:N:445:ALA:HB2	2.04	0.69
10:Q:97:LEU:HD23	10:Q:106:GLU:CG	2.21	0.69
10:4:206:LEU:HD23	10:4:207:GLN:N	2.07	0.69
10:4:337:ARG:CA	10:4:340:GLU:HG3	2.22	0.69
12:6:165:ALA:HB3	12:6:203:LEU:CD1	2.19	0.69
15:9:101:GLN:HE21	16:AA:101:GLN:CD	1.95	0.69
18:AC:412:ALA:HA	18:AC:447:ALA:CB	2.21	0.69
2:H:242:GLY:HA3	2:H:280:ILE:HG13	1.73	0.69
1:I:344:PRO:O	1:I:344:PRO:CG	2.41	0.69
5:J:207:THR:HG23	5:J:209:CYS:HG	1.55	0.69
6:K:145:PRO:CB	6:K:256:GLU:HG3	2.21	0.69
6:K:215:LEU:CD2	6:K:333:PHE:CZ	2.72	0.69
3:L:126:ASP:OD2	3:L:197:LYS:HE3	1.88	0.69
7:N:497:LEU:HD13	7:N:515:ALA:HB3	1.75	0.69
7:N:804:SER:HB2	7:N:892:LEU:HA	1.73	0.69
9:P:453:HIS:C	9:P:454:ASN:HD22	1.95	0.69
12:S:320:THR:O	12:S:322:VAL:N	2.25	0.69
18:Z:485:LEU:HA	18:Z:488:ALA:HB3	1.72	0.69
4:O:142:ALA:O	4:O:145:LEU:CA	2.39	0.69
7:1:154:ALA:O	7:1:158:ARG:N	2.24	0.69
10:4:209:THR:O	10:4:213:GLN:HB2	1.92	0.69
10:4:222:GLU:HG3	10:4:225:TRP:CZ3	2.28	0.69
11:5:260:LEU:O	11:5:260:LEU:HD22	1.91	0.69
12:6:320:THR:O	12:6:322:VAL:N	2.25	0.69
13:7:173:CYS:O	13:7:177:ASP:HB3	1.92	0.69
5:J:220:VAL:CG1	5:J:224:ILE:HD12	2.22	0.69
9:P:384:LEU:HD11	9:P:392:PHE:CE2	2.27	0.69
13:T:173:CYS:O	13:T:177:ASP:HB3	1.92	0.69
14:U:240:VAL:O	14:U:242:LEU:N	2.25	0.69
14:U:250:TYR:O	14:U:253:THR:HG22	1.91	0.69
18:Z:503:PRO:O	18:Z:507:ASP:N	2.26	0.69
18:Z:747:GLN:O	18:Z:750:GLN:N	2.25	0.69
10:4:157:LEU:CB	10:4:166:LEU:HD12	2.19	0.69
11:5:234:PRO:O	11:5:237:ARG:HG3	1.91	0.69
1:I:200:SER:O	1:I:219:PRO:HG2	1.90	0.69
5:J:393:LYS:HA	5:J:396:GLU:HB3	1.74	0.69
4:M:295:ARG:HD2	4:M:339:ASP:CG	2.07	0.69
7:N:667:GLU:CG	7:N:668:ALA:H	2.05	0.69
10:Q:248:ILE:HG22	10:Q:283:GLN:OE1	1.91	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:Q:46:LYS:O	10:Q:50:ILE:N	2.20	0.69
14:U:185:GLY:O	14:U:186:THR:OG1	2.07	0.69
8:2:242:SER:O	8:2:279:GLU:CD	2.30	0.69
10:4:282:ARG:HD3	10:4:309:TYR:CE1	2.28	0.69
11:5:249:VAL:O	11:5:252:SER:N	2.25	0.69
10:4:415:TYR:CE1	11:5:383:LEU:CB	2.75	0.69
14:8:131:LEU:CD1	14:8:199:LYS:CD	2.67	0.69
14:8:69:PHE:CZ	16:AA:63:THR:HG21	2.27	0.69
2:H:102:ILE:HD11	2:H:120:LYS:CG	2.21	0.69
1:I:199:GLU:O	1:I:204:PRO:HD3	1.92	0.69
1:I:291:GLY:O	1:I:293:LYS:N	2.24	0.69
1:I:404:LEU:HD13	5:J:313:ARG:HH11	1.56	0.69
3:L:254:GLN:O	3:L:255:ARG:C	2.30	0.69
8:O:370:GLN:C	13:T:340:ILE:HG21	2.11	0.69
9:P:128:LEU:HA	9:P:131:VAL:HG12	1.74	0.69
9:P:19:ASP:O	9:P:23:THR:N	2.17	0.69
10:Q:337:ARG:CA	10:Q:340:GLU:HG3	2.22	0.69
14:U:256:GLN:HG2	15:V:295:ASN:ND2	2.07	0.69
16:W:6:THR:HB	16:W:49:VAL:HG22	1.74	0.69
18:Z:444:ALA:O	18:Z:448:CYS:N	2.20	0.69
4:O:314:LEU:HD21	4:O:342:LEU:HD21	1.73	0.69
8:2:3:ASP:O	8:2:7:PHE:N	2.23	0.69
9:3:78:LYS:HA	9:3:79:GLU:C	2.13	0.69
10:4:23:SER:O	10:4:27:LEU:N	2.25	0.69
14:8:250:TYR:O	14:8:253:THR:HG22	1.91	0.69
14:8:265:LEU:O	14:8:268:SER:OG	2.08	0.69
2:H:178:GLY:HA3	2:H:357:ILE:CD1	2.22	0.69
3:L:171:LEU:HD13	3:L:277:MET:CB	2.23	0.69
3:L:305:ASN:O	3:L:309:ARG:N	2.17	0.69
4:M:288:LEU:N	4:M:332:THR:HG22	2.07	0.69
4:M:375:VAL:C	4:M:414:GLU:CG	2.61	0.69
9:P:421:PRO:CD	9:P:422:ASN:H	2.04	0.69
10:Q:255:LEU:HD21	10:Q:270:LEU:CB	2.22	0.69
13:T:141:LEU:HD13	13:T:182:LEU:HD13	1.73	0.69
14:U:69:PHE:CZ	16:W:63:THR:HG21	2.27	0.69
18:Z:438:ASP:O	18:Z:442:SER:N	2.21	0.69
4:O:171:ARG:NH2	4:O:263:ASP:OD1	2.23	0.69
4:O:249:LEU:O	4:O:284:PHE:N	2.26	0.69
8:2:368:GLU:HG3	8:2:369:HIS:N	2.08	0.69
9:3:384:LEU:HD13	9:3:392:PHE:HE2	1.57	0.69
14:8:194:GLN:NE2	15:9:304:LEU:HD12	2.08	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:246:VAL:C	2:H:247:GLN:NE2	2.43	0.69
5:J:220:VAL:HG13	5:J:224:ILE:CD1	2.23	0.69
4:M:197:GLU:OE2	4:M:350:ARG:NH2	2.25	0.69
4:M:252:ALA:HB3	4:M:255:GLN:CG	2.23	0.69
7:N:360:VAL:HG22	7:N:361:ARG:N	2.07	0.69
11:R:108:ALA:HB1	11:R:124:PHE:CZ	2.28	0.69
11:R:221:THR:HG22	11:R:253:LEU:CD1	2.21	0.69
14:8:256:GLN:HG2	15:9:295:ASN:ND2	2.07	0.69
5:J:137:LEU:CD2	5:J:224:ILE:HD13	2.12	0.69
4:M:249:LEU:O	4:M:284:PHE:N	2.26	0.69
4:M:293:THR:HG23	4:M:337:ILE:HG22	1.74	0.69
9:P:420:ASP:CB	9:P:421:PRO:CD	2.70	0.69
9:P:449:GLU:O	9:P:453:HIS:HB2	1.92	0.69
10:Q:23:SER:O	10:Q:27:LEU:N	2.25	0.69
4:0:80:ILE:HG22	4:0:84:LYS:CD	2.11	0.69
7:1:402:PHE:CB	7:1:437:TYR:HB3	2.20	0.69
9:3:446:ILE:HD12	14:8:211:TYR:CD2	2.28	0.69
12:6:484:LEU:CD1	13:7:345:GLN:HB3	2.15	0.69
15:9:225:TRP:O	15:9:227:GLU:N	2.25	0.69
18:AC:842:VAL:O	18:AC:875:ALA:HA	1.93	0.69
2:H:111:TYR:OH	2:H:134:ILE:HD12	1.92	0.69
2:H:242:GLY:CA	2:H:280:ILE:CG1	2.71	0.69
1:I:356:PRO:HB2	1:I:361:LYS:CE	2.22	0.69
6:K:204:MET:SD	6:K:215:LEU:HD23	2.33	0.69
6:K:290:LEU:HA	6:K:293:LEU:HB2	1.75	0.69
6:K:205:TYR:HD2	6:K:314:ALA:HB1	1.56	0.69
3:L:234:GLU:OE2	4:M:315:ASN:HB2	1.92	0.69
9:P:131:VAL:CG1	9:P:142:ARG:HB2	2.22	0.69
9:P:153:LYS:HE2	9:P:162:ALA:CA	2.23	0.69
10:Q:206:LEU:HD23	10:Q:207:GLN:N	2.07	0.69
12:S:278:GLU:O	12:S:279:GLN:O	2.10	0.69
15:V:225:TRP:O	15:V:227:GLU:N	2.25	0.69
16:W:65:THR:CG2	16:W:70:ARG:CG	2.71	0.69
4:0:136:VAL:C	4:0:138:GLY:N	2.46	0.69
4:0:172:VAL:HG21	4:0:270:ASP:CB	2.23	0.69
4:0:333:ASN:O	4:0:334:ARG:HG2	1.93	0.69
7:1:354:LYS:O	7:1:358:ASP:N	2.22	0.69
7:1:560:MET:HA	7:1:589:ALA:HB1	1.74	0.69
10:4:97:LEU:CD2	10:4:106:GLU:HG2	2.23	0.69
11:5:32:ARG:HA	11:5:33:GLY:O	1.93	0.69
18:AC:322:SER:O	18:AC:332:ALA:HB3	1.91	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:111:TYR:CZ	2:H:125:LEU:CD2	2.42	0.69
2:H:233:THR:CG2	2:H:234:ASP:H	2.06	0.69
2:H:242:GLY:HA3	2:H:280:ILE:CG1	2.23	0.69
5:J:377:HIS:HE2	11:R:206:SER:CB	2.05	0.69
6:K:115:ILE:CD1	6:K:121:ARG:HH11	1.97	0.69
4:M:215:LEU:HD23	4:M:217:ILE:HG22	1.75	0.69
7:N:616:ARG:CD	7:N:650:TYR:CD2	2.75	0.69
8:O:341:LEU:HB2	8:O:345:GLN:OE1	1.91	0.69
10:Q:183:LEU:O	10:Q:187:ARG:HB3	1.92	0.69
10:Q:252:LYS:HA	10:Q:287:LEU:CD1	2.23	0.69
11:R:33:GLY:H	11:R:34:ASP:CB	2.05	0.69
7:1:35:TRP:HA	7:1:38:ILE:HB	1.73	0.69
10:4:167:VAL:HG22	10:4:196:THR:HG23	1.75	0.69
10:4:255:LEU:HD21	10:4:270:LEU:CB	2.22	0.69
10:4:302:PHE:CD1	10:4:330:LEU:CD1	2.75	0.69
10:4:51:LEU:O	10:4:55:SER:N	2.23	0.69
11:5:21:GLN:HG3	11:5:286:TRP:HZ3	1.53	0.69
13:7:344:ARG:HA	13:7:347:GLU:HB2	1.75	0.69
14:8:139:ILE:HG22	14:8:140:SER:N	2.08	0.69
2:H:284:ARG:CG	2:H:296:GLN:CD	2.61	0.69
1:I:106:PRO:O	1:I:154:HIS:HD2	1.72	0.69
1:I:108:SER:HA	5:J:95:PHE:HD1	1.58	0.69
6:K:103:VAL:CG1	6:K:139:LEU:HD21	2.22	0.69
6:K:190:LEU:O	6:K:196:ILE:CD1	2.40	0.69
4:M:333:ASN:O	4:M:334:ARG:HG2	1.93	0.69
6:K:70:LYS:HE2	14:U:182:THR:OG1	1.94	0.69
7:1:227:GLN:O	7:1:231:ASP:N	2.16	0.68
9:3:449:GLU:O	9:3:453:HIS:HB2	1.92	0.68
11:5:268:TYR:O	11:5:270:VAL:N	2.26	0.68
12:6:319:HIS:CG	12:6:320:THR:H	2.11	0.68
15:9:96:LEU:HD13	15:9:100:LYS:NZ	2.07	0.68
2:H:177:VAL:CG1	2:H:184:ILE:HD11	2.22	0.68
1:I:271:PHE:CD1	1:I:315:GLN:NE2	2.61	0.68
5:J:138:MET:CE	5:J:143:VAL:HG22	2.23	0.68
5:J:41:ASN:O	5:J:44:ARG:CA	2.41	0.68
3:L:175:PRO:O	3:L:178:THR:HG23	1.92	0.68
3:L:264:MET:CG	3:L:275:MET:CE	2.71	0.68
4:M:136:VAL:C	4:M:138:GLY:N	2.46	0.68
4:M:380:ASN:HB3	4:M:383:GLU:CD	2.13	0.68
7:N:148:LYS:HE3	7:N:179:TYR:CD2	2.28	0.68
7:N:616:ARG:HH21	7:N:647:HIS:HA	1.57	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:P:317:TRP:CZ2	9:P:351:TRP:CH2	2.81	0.68
10:Q:51:LEU:O	10:Q:55:SER:N	2.23	0.68
4:0:375:VAL:C	4:0:414:GLU:CG	2.61	0.68
24:G:166:GLN:HE21	4:0:383:GLU:C	1.95	0.68
7:1:497:LEU:HD13	7:1:515:ALA:HB3	1.75	0.68
8:2:292:THR:OG1	8:2:294:GLU:HG2	1.93	0.68
11:5:145:LEU:O	11:5:148:GLY:N	2.26	0.68
13:7:337:LYS:O	13:7:341:GLU:N	2.17	0.68
16:AA:54:LEU:HA	16:AA:58:CYS:HA	1.74	0.68
2:H:416:VAL:O	2:H:417:ILE:C	2.30	0.68
1:I:283:PHE:HD1	1:I:328:ILE:HB	1.58	0.68
1:I:313:LEU:HD12	1:I:340:ALA:HB3	1.74	0.68
6:K:284:GLU:HA	6:K:287:ARG:HD2	1.74	0.68
7:N:19:LEU:O	7:N:23:ALA:N	2.21	0.68
7:N:458:ILE:O	7:N:462:LEU:N	2.22	0.68
8:O:292:THR:OG1	8:O:294:GLU:HG2	1.93	0.68
10:Q:97:LEU:CD2	10:Q:106:GLU:HG2	2.23	0.68
10:Q:167:VAL:HG22	10:Q:196:THR:HG23	1.75	0.68
10:Q:209:THR:O	10:Q:213:GLN:HB2	1.92	0.68
11:R:21:GLN:HB2	11:R:286:TRP:CZ3	2.28	0.68
11:R:30:GLU:HA	11:R:31:HIS:O	1.94	0.68
11:R:300:ARG:NH2	11:R:337:PHE:CZ	2.62	0.68
12:S:298:ILE:HG21	13:T:213:GLU:HB2	1.76	0.68
12:S:484:LEU:CD1	13:T:345:GLN:HB3	2.15	0.68
14:U:139:ILE:HG22	14:U:140:SER:N	2.08	0.68
16:W:54:LEU:HA	16:W:58:CYS:HA	1.74	0.68
17:Y:55:GLN:HA	17:Y:58:ALA:HB3	1.74	0.68
18:Z:842:VAL:O	18:Z:875:ALA:HA	1.93	0.68
10:4:166:LEU:O	10:4:170:GLN:HG3	1.94	0.68
11:5:219:PHE:CE1	11:5:223:THR:HG21	2.28	0.68
11:5:30:GLU:HA	11:5:31:HIS:O	1.94	0.68
12:6:328:VAL:O	12:6:331:LEU:N	2.25	0.68
12:6:463:MET:C	12:6:465:ASP:N	2.46	0.68
18:AC:662:MET:O	18:AC:664:GLU:N	2.25	0.68
1:I:107:MET:HE1	1:I:151:LEU:HD13	1.75	0.68
1:I:197:ILE:HG23	1:I:198:LYS:N	2.09	0.68
1:I:180:PRO:CG	1:I:241:ASN:HA	2.22	0.68
5:J:184:LYS:O	5:J:290:LYS:HA	1.94	0.68
6:K:154:LEU:O	6:K:155:THR:CB	2.41	0.68
3:L:198:VAL:CG2	3:L:218:MET:SD	2.78	0.68
3:L:242:ARG:NH1	3:L:286:ASP:OD2	2.26	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:N:604:HIS:HA	7:N:607:VAL:HB	1.75	0.68
9:P:384:LEU:HB3	9:P:388:GLU:CB	2.13	0.68
12:S:484:LEU:HD13	13:T:345:GLN:CB	2.17	0.68
4:O:380:ASN:HB3	4:O:383:GLU:CD	2.13	0.68
7:1:442:GLY:O	7:1:446:LEU:N	2.25	0.68
7:1:491:GLN:O	7:1:495:ASP:N	2.17	0.68
7:1:609:ASP:O	7:1:615:ARG:NE	2.24	0.68
7:1:713:TYR:O	7:1:717:ILE:N	2.16	0.68
7:1:74:PHE:O	7:1:78:LEU:N	2.21	0.68
10:4:61:GLY:O	10:4:64:ALA:N	2.26	0.68
10:4:61:GLY:O	10:4:65:GLU:N	2.25	0.68
12:6:278:GLU:O	12:6:279:GLN:O	2.10	0.68
12:6:328:VAL:CG1	12:6:329:HIS:N	2.57	0.68
14:8:40:LEU:CD1	14:8:91:ILE:HD13	2.24	0.68
2:H:190:VAL:HG11	2:H:212:VAL:HG21	1.62	0.68
1:I:233:THR:CB	33:I:501:ADP:O2A	2.42	0.68
6:K:335:LEU:HD23	6:K:335:LEU:N	2.08	0.68
6:K:366:ARG:NH1	6:K:403:TYR:HD2	1.86	0.68
9:P:446:ILE:CD1	14:U:211:TYR:CD2	2.76	0.68
11:R:249:VAL:O	11:R:252:SER:N	2.25	0.68
11:R:289:ALA:CB	11:R:290:PRO:HD3	2.23	0.68
7:1:148:LYS:HE3	7:1:179:TYR:CD2	2.28	0.68
7:1:68:PHE:HB3	7:1:73:ALA:HB3	1.75	0.68
10:4:122:ARG:O	10:4:124:PHE:N	2.27	0.68
11:5:21:GLN:HB2	11:5:286:TRP:CZ3	2.28	0.68
11:5:300:ARG:NH2	11:5:337:PHE:CZ	2.62	0.68
14:8:47:VAL:HG12	14:8:48:LEU:N	2.09	0.68
1:I:255:LEU:HD11	1:I:267:VAL:HG22	1.74	0.68
1:I:284:ILE:HG21	1:I:287:ILE:CG2	2.23	0.68
1:I:290:ILE:HD13	1:I:309:MET:HG2	1.75	0.68
6:K:248:ARG:CB	6:K:252:ARG:HH21	2.06	0.68
4:M:202:ILE:HD11	4:M:329:ILE:CD1	2.18	0.68
4:M:80:ILE:CG2	4:M:84:LYS:HE3	2.22	0.68
8:O:368:GLU:HG3	8:O:369:HIS:N	2.08	0.68
11:R:268:TYR:O	11:R:270:VAL:N	2.26	0.68
15:V:267:PRO:CD	15:V:268:GLU:H	2.06	0.68
7:1:406:ALA:CA	7:1:445:ALA:HB2	2.06	0.68
7:1:804:SER:HB2	7:1:892:LEU:HA	1.73	0.68
9:3:446:ILE:CD1	14:8:211:TYR:CD2	2.76	0.68
11:5:14:ASN:N	11:5:15:PRO:HA	2.08	0.68
19:B:126:THR:HG22	20:C:127:ARG:HH21	1.58	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:356:LYS:O	2:H:360:ARG:HB2	1.92	0.68
1:I:131:HIS:HB3	2:H:95:VAL:HG23	1.76	0.68
1:I:115:ILE:O	1:I:116:ILE:HD13	1.93	0.68
5:J:301:LEU:HD12	5:J:301:LEU:O	1.93	0.68
6:K:105:SER:CB	6:K:109:SER:OG	2.41	0.68
6:K:207:PRO:HB2	6:K:335:LEU:HD22	1.73	0.68
6:K:372:GLY:CA	33:K:501:ADP:C8	2.76	0.68
3:L:300:HIS:NE2	3:L:302:ASP:OD1	2.27	0.68
10:Q:222:GLU:HG3	10:Q:225:TRP:CZ3	2.28	0.68
11:R:145:LEU:O	11:R:148:GLY:N	2.26	0.68
11:R:219:PHE:CE1	11:R:223:THR:HG21	2.28	0.68
12:S:328:VAL:CG1	12:S:329:HIS:N	2.57	0.68
14:U:23:PHE:HD2	14:U:126:VAL:CG2	1.97	0.68
4:0:232:GLY:HA3	33:0:501:ADP:C8	2.29	0.68
4:0:399:VAL:CB	4:0:427:VAL:HG21	2.24	0.68
7:1:35:TRP:HB2	7:1:67:VAL:HG22	1.75	0.68
8:2:341:LEU:CA	8:2:345:GLN:OE1	2.42	0.68
14:8:214:LYS:HA	14:8:218:GLY:H	1.59	0.68
16:AA:6:THR:HB	16:AA:49:VAL:HG22	1.74	0.68
18:AC:758:ASN:O	18:AC:762:VAL:N	2.21	0.68
2:H:161:VAL:CG1	2:H:260:LEU:HD12	2.22	0.68
5:J:287:LYS:O	5:J:288:ASN:HB2	1.93	0.68
5:J:46:GLN:HB3	6:K:61:ILE:HG21	1.75	0.68
3:L:338:PHE:CE2	3:L:375:ALA:HB2	2.19	0.68
4:M:226:TYR:HB3	4:M:335:VAL:HG22	1.71	0.68
4:M:229:PRO:CB	4:M:333:ASN:HD22	2.07	0.68
7:N:112:CYS:O	7:N:116:ALA:N	2.23	0.68
7:N:67:VAL:O	7:N:71:LEU:N	2.27	0.68
8:O:245:VAL:HG11	8:O:300:ALA:HA	1.74	0.68
10:Q:282:ARG:HD3	10:Q:309:TYR:CE1	2.28	0.68
10:Q:252:LYS:HA	10:Q:287:LEU:HD11	1.75	0.68
15:V:234:TYR:CZ	15:V:298:GLN:NE2	2.62	0.68
14:U:194:GLN:NE2	15:V:304:LEU:HD12	2.08	0.68
25:X:150:MET:C	25:X:151:ILE:HG13	3.20	0.68
9:3:317:TRP:CZ2	9:3:351:TRP:CH2	2.81	0.68
10:4:163:LYS:HD2	10:4:200:ILE:HG22	1.73	0.68
11:5:289:ALA:CB	11:5:290:PRO:HD3	2.23	0.68
15:9:160:PHE:HB2	15:9:201:TYR:O	1.94	0.68
6:K:240:LEU:N	6:K:240:LEU:HD23	2.07	0.68
6:K:348:ILE:CB	6:K:379:CYS:SG	2.81	0.68
3:L:199:VAL:CG1	4:M:315:ASN:ND2	2.56	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:358:ASN:O	4:M:362:ARG:NH1	2.26	0.68
4:M:232:GLY:HA3	33:M:501:ADP:C8	2.29	0.68
9:P:274:VAL:HG12	9:P:287:VAL:HG22	1.75	0.68
9:P:78:LYS:HA	9:P:79:GLU:C	2.13	0.68
9:P:446:ILE:HD12	14:U:211:TYR:CD2	2.28	0.68
14:U:214:LYS:HA	14:U:218:GLY:H	1.59	0.68
14:U:59:ASP:HB2	16:W:99:HIS:CD2	2.29	0.68
4:O:229:PRO:CB	4:O:333:ASN:HD22	2.07	0.68
4:O:96:LEU:HD11	4:O:145:LEU:HB3	1.76	0.68
7:1:462:LEU:O	7:1:466:LYS:N	2.22	0.68
2:H:254:ALA:HB1	2:H:258:ARG:HH21	1.57	0.68
6:K:199:PRO:HA	6:K:328:ASP:OD2	1.93	0.68
6:K:205:TYR:CE1	6:K:332:GLU:HA	2.29	0.68
8:O:284:ARG:HH11	8:O:291:LEU:CD2	2.07	0.68
10:Q:302:PHE:CD1	10:Q:330:LEU:CD1	2.75	0.68
13:T:344:ARG:HA	13:T:347:GLU:HB2	1.75	0.68
12:6:298:ILE:HG21	13:7:213:GLU:HB2	1.76	0.68
14:8:157:HIS:ND1	14:8:157:HIS:O	2.27	0.68
14:8:12:HIS:HD2	14:8:50:VAL:O	1.77	0.68
15:9:234:TYR:CZ	15:9:298:GLN:NE2	2.62	0.68
12:6:317:PRO:HG2	17:AB:7:PRO:CB	2.24	0.68
2:H:261:PHE:HB3	2:H:265:ARG:HH21	1.58	0.68
1:I:115:ILE:CA	1:I:121:ALA:HB2	2.16	0.68
5:J:150:MET:C	5:J:151:ILE:HG13	2.13	0.68
5:J:300:ILE:HG13	5:J:301:LEU:N	2.09	0.68
5:J:326:LEU:HD13	5:J:345:ARG:CG	2.24	0.68
6:K:170:MET:C	6:K:174:LYS:HD3	2.13	0.68
6:K:236:VAL:HG12	6:K:288:ILE:CD1	2.24	0.68
6:K:394:VAL:CG1	6:K:395:LEU:N	2.56	0.68
3:L:148:VAL:O	3:L:167:PRO:HG2	1.93	0.68
10:Q:122:ARG:O	10:Q:124:PHE:N	2.27	0.68
10:Q:84:LYS:NZ	10:Q:88:LEU:HD21	2.09	0.68
12:S:319:HIS:CG	12:S:320:THR:H	2.11	0.68
13:T:224:VAL:CG1	13:T:225:TYR:H	2.05	0.68
12:S:480:ILE:HB	13:T:342:TYR:CE1	2.28	0.68
15:V:160:PHE:HB2	15:V:201:TYR:O	1.94	0.68
18:Z:318:THR:C	18:Z:322:SER:CB	2.61	0.68
4:O:146:LYS:CE	4:O:149:ASP:OD2	2.42	0.67
7:1:86:ASP:OD1	7:1:87:LEU:N	2.25	0.67
9:3:153:LYS:HE2	9:3:162:ALA:CA	2.23	0.67
9:3:446:ILE:O	9:3:450:GLU:HG3	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:4:6:VAL:O	10:4:10:GLN:N	2.22	0.67
11:5:133:ALA:CB	11:5:136:HIS:CD2	2.74	0.67
11:5:151:TYR:O	11:5:152:MET:HB2	1.92	0.67
11:5:48:ASN:CB	11:5:50:MET:SD	2.82	0.67
12:6:477:HIS:HA	13:7:342:TYR:OH	1.94	0.67
14:8:45:LYS:CG	14:8:46:LYS:N	2.57	0.67
2:H:230:ALA:HB2	2:H:237:PHE:CD2	2.29	0.67
2:H:272:ILE:CG2	2:H:274:PHE:CE1	2.77	0.67
3:L:155:ASN:N	3:L:156:PRO:HD3	2.08	0.67
3:L:226:GLN:CB	3:L:273:VAL:CG2	2.54	0.67
4:M:399:VAL:HG22	4:M:427:VAL:CG2	2.24	0.67
9:P:384:LEU:HD13	9:P:392:PHE:HE2	1.57	0.67
10:Q:166:LEU:O	10:Q:170:GLN:HG3	1.94	0.67
10:Q:264:PRO:HB3	10:Q:295:LYS:HE2	1.74	0.67
10:Q:61:GLY:O	10:Q:65:GLU:N	2.27	0.67
13:T:269:ASP:O	13:T:273:GLY:N	2.18	0.67
13:T:95:TYR:O	13:T:99:LYS:CB	2.40	0.67
14:U:79:TYR:CE1	14:U:83:LYS:CE	2.77	0.67
7:1:147:TYR:CG	7:1:167:ILE:CG1	2.78	0.67
9:3:131:VAL:HG13	9:3:142:ARG:HB2	1.76	0.67
9:3:90:LEU:O	9:3:90:LEU:HD23	1.94	0.67
10:4:252:LYS:HA	10:4:287:LEU:CD1	2.23	0.67
10:4:252:LYS:HA	10:4:287:LEU:HD11	1.75	0.67
15:9:146:ASP:OD2	15:9:149:GLN:CG	2.40	0.67
2:H:282:GLY:O	2:H:328:ASP:N	2.27	0.67
7:N:35:TRP:HB2	7:N:67:VAL:HG22	1.75	0.67
7:N:791:LEU:O	7:N:792:ASN:CB	2.33	0.67
12:S:220:PHE:O	12:S:223:LYS:N	2.25	0.67
14:U:43:TRP:CA	14:U:48:LEU:CD2	2.67	0.67
15:V:82:VAL:HG11	15:V:113:HIS:CE1	2.29	0.67
16:W:130:ARG:HA	16:W:133:LYS:HD2	1.76	0.67
18:Z:667:GLY:O	18:Z:671:ALA:HB3	1.95	0.67
7:1:55:ARG:CG	7:1:56:SER:N	2.57	0.67
7:1:604:HIS:HA	7:1:607:VAL:HB	1.75	0.67
7:1:616:ARG:NH1	7:1:650:TYR:CD2	2.61	0.67
7:1:67:VAL:O	7:1:71:LEU:N	2.27	0.67
9:3:274:VAL:HG12	9:3:287:VAL:HG22	1.75	0.67
10:4:93:LEU:HD12	10:4:129:LEU:HD11	1.77	0.67
12:6:480:ILE:HB	13:7:342:TYR:CE1	2.28	0.67
18:AC:667:GLY:O	18:AC:671:ALA:HB3	1.95	0.67
5:J:173:GLU:O	5:J:177:ALA:CB	2.42	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:K:167:ILE:HG13	6:K:214:MET:HE1	1.76	0.67
6:K:401:LYS:O	6:K:405:THR:HB	1.94	0.67
7:N:609:ASP:O	7:N:615:ARG:NE	2.24	0.67
14:U:157:HIS:O	14:U:157:HIS:ND1	2.27	0.67
4:O:215:LEU:HD23	4:O:217:ILE:HG22	1.75	0.67
4:O:233:LYS:CG	4:O:354:PHE:HD2	2.07	0.67
9:3:56:THR:H	9:3:59:ASP:CB	2.08	0.67
16:AA:65:THR:CG2	16:AA:70:ARG:CG	2.71	0.67
18:AC:200:ALA:HA	18:AC:201:GLU:CB	2.24	0.67
1:I:180:PRO:CG	1:I:241:ASN:CA	2.72	0.67
1:I:246:THR:HG21	1:I:277:HIS:HB3	1.75	0.67
1:I:342:ILE:HG23	1:I:350:LYS:HE2	1.76	0.67
5:J:104:ASP:OD2	5:J:107:ASP:OD2	2.13	0.67
5:J:33:LEU:HA	5:J:36:ASN:ND2	2.09	0.67
1:I:154:HIS:CE1	5:J:95:PHE:CE1	2.83	0.67
6:K:178:ARG:HA	6:K:182:GLU:HB3	1.76	0.67
6:K:392:TYR:O	6:K:393:ILE:HB	1.93	0.67
6:K:403:TYR:HA	6:K:407:ILE:CD1	2.25	0.67
3:L:61:LEU:CD1	3:L:78:ARG:HD3	2.25	0.67
4:M:338:LEU:N	4:M:338:LEU:HD23	2.09	0.67
7:N:442:GLY:O	7:N:446:LEU:N	2.25	0.67
11:R:198:ALA:O	11:R:202:LEU:HB2	1.95	0.67
11:R:51:ALA:HB3	11:R:52:PRO:CD	2.23	0.67
14:U:12:HIS:HD2	14:U:50:VAL:O	1.77	0.67
14:U:265:LEU:O	14:U:268:SER:OG	2.08	0.67
7:1:19:LEU:O	7:1:23:ALA:N	2.21	0.67
13:7:187:TYR:O	13:7:191:LEU:CB	2.42	0.67
14:8:283:ARG:HG2	14:8:283:ARG:HH11	1.60	0.67
16:AA:130:ARG:HA	16:AA:133:LYS:HD2	1.76	0.67
18:AC:318:THR:C	18:AC:322:SER:CB	2.61	0.67
1:I:214:MET:HE1	2:H:397:ILE:HG13	1.75	0.67
1:I:401:GLU:CG	1:I:422:SER:CB	2.71	0.67
1:I:94:GLU:CG	1:I:98:LYS:HE3	2.24	0.67
6:K:82:ILE:CG2	6:K:116:LEU:HD11	2.12	0.67
6:K:52:GLU:O	6:K:56:VAL:N	2.22	0.67
4:M:172:VAL:HG21	4:M:270:ASP:CB	2.23	0.67
7:N:147:TYR:CG	7:N:167:ILE:CG1	2.78	0.67
7:N:616:ARG:NH1	7:N:650:TYR:CD2	2.61	0.67
10:Q:212:MET:HE1	10:Q:249:THR:HG22	1.77	0.67
14:U:215:VAL:HG13	14:U:220:LEU:CB	2.24	0.67
10:4:193:ALA:O	10:4:196:THR:HG22	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:6:228:ARG:HE	12:6:257:ASN:CG	1.98	0.67
2:H:190:VAL:HG13	2:H:212:VAL:HG23	1.75	0.67
1:I:271:PHE:CZ	1:I:316:LEU:HD12	2.29	0.67
1:I:373:THR:HG22	1:I:413:LYS:HE3	1.76	0.67
1:I:421:LYS:O	1:I:425:ASN:N	2.28	0.67
6:K:114:ARG:O	6:K:138:ALA:HB1	1.95	0.67
6:K:89:ILE:HG23	6:K:143:LEU:HD23	1.75	0.67
6:K:212:LYS:CG	6:K:333:PHE:CD2	2.76	0.67
7:N:218:GLN:O	7:N:222:PHE:N	2.27	0.67
10:Q:397:TYR:HD2	11:R:365:GLN:OE1	1.75	0.67
11:R:14:ASN:N	11:R:15:PRO:HA	2.08	0.67
12:S:228:ARG:HE	12:S:257:ASN:CG	1.98	0.67
15:V:48:GLY:O	15:V:49:VAL:C	2.30	0.67
18:Z:200:ALA:HA	18:Z:201:GLU:CB	2.24	0.67
4:0:338:LEU:N	4:0:338:LEU:HD23	2.09	0.67
11:5:198:ALA:O	11:5:202:LEU:HB2	1.95	0.67
14:8:215:VAL:HG13	14:8:220:LEU:CB	2.24	0.67
18:AC:832:THR:O	18:AC:876:HIS:HA	1.95	0.67
1:I:197:ILE:HG23	1:I:198:LYS:H	1.59	0.67
5:J:214:VAL:HG21	5:J:234:LEU:HD11	1.75	0.67
3:L:178:THR:HB	3:L:301:ILE:O	1.95	0.67
3:L:305:ASN:H	3:L:308:ALA:CB	2.08	0.67
3:L:338:PHE:CE1	3:L:375:ALA:HA	2.30	0.67
7:N:497:LEU:HD11	7:N:515:ALA:CB	2.24	0.67
9:P:200:ILE:CG1	9:P:201:ARG:N	2.54	0.67
12:S:463:MET:C	12:S:465:ASP:N	2.46	0.67
13:T:164:PHE:O	13:T:168:MET:N	2.17	0.67
14:U:22:HIS:HD2	14:U:35:VAL:HG11	1.32	0.67
18:Z:832:THR:O	18:Z:876:HIS:HA	1.95	0.67
9:3:68:VAL:O	9:3:71:VAL:CG2	2.42	0.67
10:4:264:PRO:HB3	10:4:295:LYS:HE2	1.74	0.67
20:C:227:ASP:OD1	10:4:87:ARG:NH2	2.28	0.67
12:6:220:PHE:O	12:6:223:LYS:N	2.25	0.67
13:7:250:ASN:O	13:7:253:ALA:N	2.28	0.67
15:9:82:VAL:HG11	15:9:113:HIS:CE1	2.29	0.67
14:8:59:ASP:HB2	16:AA:99:HIS:CD2	2.29	0.67
2:H:120:LYS:HE2	4:M:90:VAL:HG21	1.76	0.67
2:H:86:THR:CA	2:H:89:SER:OG	2.41	0.67
1:I:252:GLY:HA2	1:I:255:LEU:HB2	1.76	0.67
6:K:210:CYS:HG	6:K:334:PRO:C	1.97	0.67
3:L:146:ARG:HH22	3:L:190:GLN:CD	1.98	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:70:ILE:HD13	6:K:146:GLU:CD	2.15	0.67
4:M:146:LYS:CE	4:M:149:ASP:OD2	2.42	0.67
7:N:68:PHE:HB3	7:N:73:ALA:HB3	1.75	0.67
9:P:446:ILE:O	9:P:450:GLU:HG3	1.94	0.67
9:P:90:LEU:O	9:P:90:LEU:HD23	1.94	0.67
10:Q:397:TYR:HD2	11:R:365:GLN:NE2	1.85	0.67
11:R:250:LEU:CD2	11:R:257:ARG:CB	2.62	0.67
11:R:32:ARG:HA	11:R:33:GLY:O	1.93	0.67
13:T:346:LEU:HA	13:T:349:ILE:HD12	1.77	0.67
14:U:45:LYS:CG	14:U:46:LYS:N	2.57	0.67
18:Z:720:GLU:O	18:Z:724:ASN:N	2.28	0.67
7:1:497:LEU:HD11	7:1:515:ALA:CB	2.24	0.67
14:8:43:TRP:CA	14:8:48:LEU:CD2	2.67	0.67
15:9:58:LEU:HB2	15:9:71:ASP:HB2	1.77	0.67
16:AA:119:ASP:OD1	16:AA:120:ASN:N	2.28	0.67
2:H:303:ILE:HG23	2:H:336:ARG:NH1	2.10	0.67
2:H:423:PHE:O	2:H:425:ALA:N	2.28	0.67
1:I:200:SER:HB2	1:I:219:PRO:CB	2.25	0.67
6:K:384:MET:O	6:K:388:ARG:HB2	1.94	0.67
3:L:232:MET:O	3:L:278:ALA:HB3	1.95	0.67
4:M:215:LEU:CD2	4:M:217:ILE:HG21	2.24	0.67
4:M:235:LEU:O	4:M:239:ALA:N	2.22	0.67
4:M:272:PHE:CE2	4:M:316:GLN:HB3	2.20	0.67
7:N:616:ARG:CZ	7:N:650:TYR:CE2	2.72	0.67
9:P:131:VAL:HG13	9:P:142:ARG:HB2	1.76	0.67
12:S:317:PRO:HG2	17:Y:7:PRO:CB	2.24	0.67
12:S:463:MET:O	12:S:466:ILE:HG13	1.95	0.67
9:P:444:HIS:NE2	14:U:138:TYR:CE1	2.63	0.67
14:U:22:HIS:HD2	14:U:35:VAL:HG12	1.42	0.67
14:U:40:LEU:HD11	14:U:91:ILE:CD1	2.24	0.67
9:3:444:HIS:NE2	14:8:138:TYR:CE1	2.63	0.67
11:5:51:ALA:HB3	11:5:52:PRO:CD	2.23	0.67
13:7:338:GLN:O	13:7:342:TYR:N	2.19	0.67
14:8:94:TRP:CZ3	14:8:121:LEU:HD22	2.30	0.67
15:9:267:PRO:CD	15:9:268:GLU:H	2.06	0.67
14:8:67:VAL:HG11	16:AA:88:THR:CG2	2.25	0.67
18:AC:503:PRO:O	18:AC:507:ASP:N	2.26	0.67
1:I:392:GLY:C	33:I:501:ADP:C8	2.68	0.67
5:J:162:LYS:HG3	5:J:166:GLU:CD	2.14	0.67
3:L:222:ALA:O	3:L:226:GLN:N	2.27	0.67
4:M:414:GLU:OE2	4:M:414:GLU:N	2.28	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:N:68:PHE:O	7:N:73:ALA:N	2.28	0.67
8:O:341:LEU:CA	8:O:345:GLN:OE1	2.42	0.67
10:Q:6:VAL:O	10:Q:10:GLN:N	2.22	0.67
12:S:477:HIS:HA	13:T:342:TYR:OH	1.94	0.67
15:V:96:LEU:HD22	15:V:100:LYS:NZ	2.09	0.67
4:O:217:ILE:O	4:O:218:GLN:CB	2.43	0.66
7:1:45:ILE:HG23	7:1:60:ALA:HB1	1.76	0.66
7:1:573:ASP:O	7:1:579:ARG:NE	2.28	0.66
8:2:11:SER:CA	8:2:22:TRP:CG	2.78	0.66
11:5:237:ARG:HB3	11:5:264:TYR:CZ	2.30	0.66
15:9:96:LEU:HD22	15:9:100:LYS:NZ	2.09	0.66
2:H:411:GLU:O	2:H:415:LYS:HB2	1.94	0.66
1:I:144:LEU:HD11	1:I:162:VAL:HA	1.76	0.66
1:I:356:PRO:CB	1:I:361:LYS:CG	2.72	0.66
6:K:149:SER:O	6:K:230:VAL:HG21	1.94	0.66
3:L:238:ILE:HG12	3:L:260:LEU:HD11	1.76	0.66
4:M:183:GLU:O	4:M:184:GLN:C	2.33	0.66
4:M:256:LEU:HD12	4:M:291:ILE:CD1	2.24	0.66
7:N:475:HIS:ND1	7:N:507:VAL:O	2.29	0.66
10:Q:118:LYS:HE2	10:Q:126:ARG:NE	2.10	0.66
12:S:469:THR:HG21	14:U:250:TYR:CD2	2.30	0.66
14:U:94:TRP:CZ3	14:U:121:LEU:CD2	2.78	0.66
14:U:47:VAL:HG12	14:U:48:LEU:N	2.09	0.66
14:U:74:TYR:CD1	15:V:98:MET:CE	2.78	0.66
4:O:347:ARG:HH11	4:O:347:ARG:HG3	1.60	0.66
4:O:399:VAL:HG22	4:O:427:VAL:CG2	2.24	0.66
10:4:84:LYS:NZ	10:4:88:LEU:HD21	2.09	0.66
1:I:197:ILE:HG12	1:I:235:LEU:HD11	1.76	0.66
5:J:148:TYR:OH	5:J:203:VAL:HG22	1.96	0.66
5:J:305:LEU:O	5:J:306:LEU:HD23	1.94	0.66
6:K:166:ASP:OD2	6:K:214:MET:HE3	1.94	0.66
4:M:202:ILE:HD13	4:M:329:ILE:HD11	1.75	0.66
3:L:114:GLU:CB	4:M:95:GLU:OE2	2.44	0.66
7:N:137:MET:O	7:N:141:CYS:N	2.26	0.66
7:N:45:ILE:HG23	7:N:60:ALA:HB1	1.76	0.66
10:Q:239:TYR:CB	10:Q:247:ALA:HB2	2.25	0.66
11:R:53:TYR:OH	11:R:150:PHE:HZ	1.77	0.66
12:S:228:ARG:NE	12:S:257:ASN:CG	2.49	0.66
18:Z:694:LEU:O	18:Z:698:SER:N	2.27	0.66
4:O:256:LEU:HD12	4:O:291:ILE:CD1	2.24	0.66
9:3:453:HIS:O	9:3:454:ASN:CB	2.44	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:5:105:MET:O	11:5:109:GLU:HB2	1.95	0.66
11:5:130:LYS:O	11:5:132:VAL:N	2.29	0.66
2:H:107:GLU:O	2:H:108:ASP:CG	2.34	0.66
2:H:307:ASP:HB2	2:H:336:ARG:CG	2.24	0.66
2:H:362:MET:CE	2:H:364:VAL:HG12	2.26	0.66
1:I:174:MET:CE	1:I:270:LEU:HA	2.25	0.66
1:I:235:LEU:O	1:I:239:VAL:HG23	1.95	0.66
5:J:154:LEU:HD21	5:J:317:PHE:CD2	2.29	0.66
6:K:190:LEU:O	6:K:194:ILE:HB	1.94	0.66
3:L:344:ARG:HE	33:L:401:ADP:HO2'	1.41	0.66
3:L:61:LEU:HD11	3:L:78:ARG:NE	2.11	0.66
4:M:233:LYS:CG	4:M:354:PHE:HD2	2.07	0.66
10:Q:93:LEU:HD12	10:Q:129:LEU:HD11	1.77	0.66
13:T:187:TYR:O	13:T:191:LEU:CB	2.42	0.66
18:Z:836:GLU:O	18:Z:837:LEU:CB	2.43	0.66
4:0:252:ALA:HB3	4:0:255:GLN:CG	2.23	0.66
8:2:27:GLU:O	8:2:31:LYS:N	2.19	0.66
8:2:321:LYS:HD2	8:2:335:TRP:NE1	2.11	0.66
9:3:390:GLU:OE2	9:3:408:ARG:CZ	2.43	0.66
10:4:222:GLU:OE2	10:4:225:TRP:HH2	1.79	0.66
10:4:239:TYR:CB	10:4:247:ALA:HB2	2.25	0.66
10:4:253:TYR:CE1	10:4:319:ILE:CD1	2.73	0.66
12:6:228:ARG:NE	12:6:257:ASN:CG	2.49	0.66
21:D:45:LEU:HD13	21:D:75:SER:HB2	1.77	0.66
2:H:327:LEU:HB3	2:H:332:MET:SD	2.35	0.66
1:I:140:ASP:OD1	1:I:141:LYS:N	2.28	0.66
1:I:407:LEU:HD11	5:J:175:PHE:CE1	2.31	0.66
3:L:77:PRO:HG3	6:K:107:THR:CG2	2.23	0.66
6:K:371:SER:C	6:K:375:ILE:CD1	2.63	0.66
6:K:41:TYR:CD1	7:N:183:LEU:HD22	2.31	0.66
4:M:90:VAL:HG12	4:M:164:LEU:HD11	1.77	0.66
10:Q:193:ALA:O	10:Q:196:THR:HG22	1.94	0.66
5:J:149:GLU:CD	11:R:133:ALA:HB1	2.15	0.66
11:R:237:ARG:HB3	11:R:264:TYR:CZ	2.30	0.66
4:0:206:MET:HB2	4:0:327:LYS:HZ3	1.61	0.66
7:1:475:HIS:ND1	7:1:507:VAL:O	2.29	0.66
10:4:239:TYR:HB3	10:4:247:ALA:H	1.61	0.66
11:5:344:HIS:HB3	11:5:357:ASN:O	1.96	0.66
14:8:74:TYR:CD1	15:9:98:MET:CE	2.78	0.66
14:8:94:TRP:CZ3	14:8:121:LEU:CD2	2.78	0.66
18:AC:166:VAL:O	18:AC:170:TRP:N	2.22	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:364:ILE:HG12	33:I:501:ADP:HN62	1.61	0.66
6:K:394:VAL:HG12	6:K:395:LEU:H	1.59	0.66
6:K:41:TYR:CE1	7:N:183:LEU:HD23	2.30	0.66
6:K:213:THR:CB	33:K:501:ADP:O2A	2.41	0.66
8:O:274:LEU:HD11	8:O:319:LEU:HD11	1.77	0.66
8:O:321:LYS:HD2	8:O:335:TRP:NE1	2.11	0.66
9:P:351:TRP:HZ3	9:P:354:LEU:HD23	1.61	0.66
9:P:390:GLU:OE2	9:P:408:ARG:CZ	2.43	0.66
9:P:427:ASP:O	9:P:431:LYS:HG3	1.96	0.66
12:S:469:THR:O	12:S:472:PRO:HD2	1.94	0.66
13:T:250:ASN:O	13:T:253:ALA:N	2.28	0.66
18:Z:166:VAL:O	18:Z:170:TRP:N	2.22	0.66
18:Z:255:VAL:O	18:Z:256:PHE:C	2.34	0.66
4:O:215:LEU:CD2	4:O:217:ILE:HG21	2.24	0.66
4:O:232:GLY:CA	33:O:501:ADP:C8	2.79	0.66
4:O:265:ALA:O	4:O:269:ARG:HG3	1.94	0.66
4:O:409:ARG:C	4:O:411:GLY:H	1.99	0.66
7:1:334:ALA:O	7:1:338:HIS:N	2.20	0.66
10:4:212:MET:HE1	10:4:250:SER:HB2	1.75	0.66
10:4:415:TYR:CG	11:5:383:LEU:HD13	2.31	0.66
12:6:463:MET:HB2	12:6:466:ILE:HD11	1.77	0.66
1:I:307:ARG:O	1:I:311:GLU:N	2.26	0.66
5:J:279:GLN:O	5:J:284:GLU:HG2	1.95	0.66
6:K:183:LEU:HB3	6:K:184:PRO:HD3	1.77	0.66
3:L:322:LYS:CB	3:L:326:ILE:CD1	2.74	0.66
7:N:140:ARG:O	7:N:144:ASP:N	2.28	0.66
7:N:459:ASP:HA	7:N:462:LEU:HB3	1.78	0.66
7:N:492:ASP:O	7:N:496:LEU:N	2.26	0.66
9:P:56:THR:H	9:P:59:ASP:CB	2.08	0.66
10:Q:297:ARG:HD3	10:Q:333:GLN:HB3	1.78	0.66
11:R:363:ASN:HD21	12:S:466:ILE:HG23	1.57	0.66
4:O:387:CYS:SG	4:O:424:ILE:HD13	2.36	0.66
7:1:459:ASP:HA	7:1:462:LEU:HB3	1.78	0.66
11:5:191:ILE:CG2	11:5:192:ARG:N	2.59	0.66
11:5:304:TYR:H	11:5:304:TYR:HD1	1.44	0.66
2:H:330:ALA:HB1	2:H:336:ARG:HH12	1.58	0.66
5:J:220:VAL:HG13	5:J:224:ILE:HD11	1.77	0.66
5:J:376:VAL:HA	6:K:194:ILE:HG12	1.78	0.66
5:J:79:ALA:C	5:J:80:MET:HG3	2.14	0.66
6:K:377:SER:O	6:K:381:GLU:HB2	1.96	0.66
3:L:343:LEU:O	3:L:346:VAL:HB	1.96	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:P:68:VAL:O	9:P:71:VAL:CG2	2.42	0.66
10:Q:194:ARG:HH12	10:Q:214:SER:CB	2.08	0.66
10:Q:203:PRO:HG2	10:Q:204:PRO:CD	2.26	0.66
11:R:130:LYS:O	11:R:132:VAL:N	2.29	0.66
7:1:218:GLN:O	7:1:222:PHE:N	2.27	0.66
10:4:194:ARG:HH12	10:4:214:SER:CB	2.08	0.66
12:6:482:PHE:HE1	12:6:486:ILE:HD11	1.60	0.66
14:8:23:PHE:CE1	14:8:28:LYS:O	2.43	0.66
1:I:298:ASN:ND2	1:I:299:SER:H	1.94	0.66
1:I:287:ILE:CD1	1:I:331:THR:CB	2.39	0.66
5:J:72:TYR:CD2	5:J:121:TYR:CZ	2.83	0.66
4:M:347:ARG:HG3	4:M:347:ARG:HH11	1.60	0.66
4:M:375:VAL:O	4:M:414:GLU:HG3	1.95	0.66
7:N:632:GLN:O	7:N:636:VAL:N	2.22	0.66
8:O:11:SER:CA	8:O:22:TRP:CG	2.78	0.66
9:P:153:LYS:CE	9:P:162:ALA:CA	2.73	0.66
10:Q:200:ILE:HD12	10:Q:201:TYR:C	2.16	0.66
11:R:105:MET:O	11:R:109:GLU:HB2	1.95	0.66
11:R:120:ALA:CB	11:R:124:PHE:CE2	2.77	0.66
6:K:70:LYS:HD3	14:U:182:THR:HG21	1.78	0.66
14:U:283:ARG:HG2	14:U:283:ARG:HH11	1.60	0.66
10:4:118:LYS:HE2	10:4:126:ARG:NE	2.10	0.66
10:4:162:ASP:OD2	10:4:165:LEU:HD12	1.96	0.66
7:1:610:VAL:HG11	14:8:178:ASP:CG	2.17	0.66
14:8:240:VAL:O	14:8:242:LEU:N	2.25	0.66
2:H:126:SER:OG	2:H:129:VAL:HG22	1.96	0.66
1:I:316:LEU:HD11	1:I:327:VAL:CG2	2.26	0.66
5:J:130:LYS:O	5:J:131:VAL:CG2	2.44	0.66
6:K:118:THR:O	6:K:120:ASP:N	2.29	0.66
6:K:275:PHE:CE2	6:K:289:LEU:HD12	2.31	0.66
3:L:205:ASP:OD2	3:L:210:GLU:OE2	2.14	0.66
3:L:194:ASN:HB3	3:L:228:CYS:HA	1.76	0.66
3:L:253:ILE:HG13	4:M:308:ARG:HH12	1.60	0.66
4:M:47:LEU:O	4:M:51:GLU:N	2.29	0.66
7:N:573:ASP:O	7:N:579:ARG:NE	2.28	0.66
5:J:57:ARG:NH1	7:N:644:TYR:CG	2.64	0.66
7:N:345:ASN:O	7:N:743:ASN:ND2	2.29	0.66
9:P:453:HIS:O	9:P:454:ASN:CB	2.44	0.66
16:W:19:GLY:HA2	16:W:25:ARG:H	1.61	0.66
14:U:67:VAL:HG11	16:W:88:THR:CG2	2.25	0.66
4:0:90:VAL:HG12	4:0:164:LEU:HD11	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:0:375:VAL:CG1	4:0:376:SER:N	2.59	0.66
7:1:616:ARG:HD3	7:1:650:TYR:CE2	2.31	0.66
9:3:15:LYS:CB	9:3:47:LEU:HD21	2.26	0.66
10:4:203:PRO:HB2	10:4:204:PRO:CD	2.25	0.66
11:5:90:ASP:O	11:5:94:ASN:CG	2.35	0.66
12:6:469:THR:O	12:6:472:PRO:HD2	1.94	0.66
16:AA:131:LEU:HD13	16:AA:138:VAL:HG21	1.76	0.66
2:H:102:ILE:HD11	2:H:120:LYS:HG2	1.77	0.66
2:H:191:VAL:HG11	2:H:229:VAL:CG1	2.25	0.66
2:H:164:MET:SD	2:H:244:GLU:OE1	2.53	0.66
1:I:190:LEU:HD12	1:I:194:ILE:HD11	1.77	0.66
1:I:248:LEU:HD12	1:I:274:ALA:HB2	1.77	0.66
1:I:275:GLU:CB	1:I:322:ARG:HH12	2.09	0.66
1:I:271:PHE:HB3	1:I:322:ARG:HH21	1.59	0.66
6:K:337:ASP:O	6:K:341:LYS:HG3	1.96	0.66
6:K:70:LYS:HA	6:K:73:LEU:CD1	2.26	0.66
3:L:148:VAL:HG22	3:L:167:PRO:HG2	1.77	0.66
3:L:185:ARG:HA	4:M:320:PHE:CZ	2.31	0.66
7:N:55:ARG:CG	7:N:56:SER:N	2.57	0.66
7:N:616:ARG:HD3	7:N:650:TYR:CE2	2.31	0.66
14:U:94:TRP:CZ3	14:U:121:LEU:HD22	2.30	0.66
14:U:94:TRP:CZ3	14:U:121:LEU:HD11	2.27	0.66
18:Z:353:LEU:O	18:Z:356:ASN:O	2.15	0.66
4:0:375:VAL:O	4:0:414:GLU:HG3	1.95	0.65
10:4:200:ILE:HD12	10:4:201:TYR:C	2.16	0.65
11:5:214:MET:HG3	11:5:218:THR:OG1	1.96	0.65
22:E:132:LEU:HD22	22:E:144:LEU:HD11	1.78	0.65
2:H:176:ASP:O	33:H:501:ADP:H2	1.79	0.65
2:H:431:THR:O	2:H:431:THR:HG23	1.96	0.65
1:I:122:ILE:CG1	1:I:130:GLU:HB3	2.25	0.65
1:I:390:LEU:HD13	1:I:395:ILE:CG1	2.20	0.65
6:K:226:ALA:HB2	6:K:257:ASN:ND2	2.08	0.65
4:M:217:ILE:O	4:M:218:GLN:CB	2.43	0.65
4:M:265:ALA:O	4:M:269:ARG:HG3	1.94	0.65
13:T:276:GLU:OE2	13:T:306:ARG:NH2	2.29	0.65
18:Z:730:GLY:O	18:Z:734:SER:N	2.27	0.65
4:0:175:MET:SD	4:0:251:LEU:HD13	2.37	0.65
10:4:133:LEU:HD11	10:4:137:TYR:CE2	2.31	0.65
10:4:276:ALA:C	10:4:278:ARG:N	2.50	0.65
8:2:35:HIS:CB	16:AA:14:GLU:HG2	2.12	0.65
18:AC:836:GLU:O	18:AC:837:LEU:CB	2.43	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:363:ARG:O	1:I:367:ILE:HD12	1.96	0.65
6:K:248:ARG:HB3	6:K:252:ARG:NH2	2.08	0.65
6:K:394:VAL:CG1	6:K:395:LEU:H	2.09	0.65
3:L:226:GLN:HB2	3:L:272:ARG:HB3	1.78	0.65
11:R:362:LYS:HA	11:R:362:LYS:HE2	1.78	0.65
15:V:71:ASP:OD2	15:V:104:ARG:HD3	1.96	0.65
6:K:80:LYS:CB	15:V:151:VAL:HG21	2.21	0.65
7:1:699:THR:HB	7:1:706:VAL:HG21	1.78	0.65
8:2:274:LEU:HD11	8:2:319:LEU:HD11	1.77	0.65
9:3:19:ASP:O	9:3:23:THR:N	2.17	0.65
10:4:222:GLU:HG3	10:4:225:TRP:HH2	1.59	0.65
13:7:327:ASP:C	13:7:331:PRO:HG2	2.17	0.65
14:8:99:PRO:O	14:8:123:ILE:HG21	1.97	0.65
18:AC:429:ILE:O	18:AC:433:LEU:N	2.29	0.65
18:AC:694:LEU:O	18:AC:698:SER:N	2.27	0.65
21:D:12:PHE:HB2	22:E:18:GLN:OE1	1.96	0.65
2:H:125:LEU:CB	2:H:149:ILE:HB	2.27	0.65
2:H:143:ASP:OD1	2:H:150:HIS:NE2	2.30	0.65
1:I:234:LEU:CD1	33:I:501:ADP:H2'	2.26	0.65
5:J:161:ILE:HD12	5:J:199:LEU:HG	1.77	0.65
5:J:214:VAL:HG21	5:J:234:LEU:CD1	2.26	0.65
6:K:337:ASP:O	6:K:341:LYS:CG	2.44	0.65
3:L:235:ILE:O	3:L:239:GLY:HA3	1.96	0.65
4:M:387:CYS:SG	4:M:424:ILE:HD13	2.36	0.65
7:N:523:SER:HA	7:N:559:ARG:HD2	1.77	0.65
9:P:15:LYS:CB	9:P:47:LEU:HD21	2.26	0.65
10:Q:109:LEU:O	10:Q:112:GLU:HB2	1.97	0.65
10:Q:415:TYR:CG	11:R:383:LEU:HD13	2.31	0.65
11:R:191:ILE:CG2	11:R:192:ARG:N	2.59	0.65
11:R:214:MET:HG3	11:R:218:THR:OG1	1.96	0.65
11:R:21:GLN:CG	11:R:286:TRP:HE3	2.02	0.65
11:R:268:TYR:CE2	11:R:307:LEU:HD13	2.31	0.65
11:R:344:HIS:HB3	11:R:357:ASN:O	1.96	0.65
8:O:35:HIS:CB	16:W:14:GLU:HG2	2.12	0.65
4:O:272:PHE:HE2	4:O:316:GLN:CB	2.08	0.65
7:1:423:MET:CE	7:1:445:ALA:CB	2.74	0.65
8:2:116:THR:OG1	8:2:154:ARG:CG	2.45	0.65
10:4:203:PRO:HG2	10:4:204:PRO:CD	2.26	0.65
11:5:71:ASN:HB3	11:5:75:LYS:HZ2	1.61	0.65
5:J:184:LYS:HG3	5:J:280:LEU:HD13	1.78	0.65
6:K:170:MET:O	6:K:174:LYS:CG	2.44	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:K:386:ALA:O	6:K:391:ARG:HG3	1.97	0.65
3:L:122:MET:HE2	3:L:218:MET:HG2	1.79	0.65
3:L:352:MET:O	3:L:356:ARG:CB	2.43	0.65
4:M:233:LYS:CG	4:M:354:PHE:CD2	2.79	0.65
4:M:175:MET:SD	4:M:251:LEU:HD13	2.37	0.65
4:M:409:ARG:C	4:M:411:GLY:H	1.99	0.65
7:N:35:TRP:O	7:N:39:SER:N	2.29	0.65
10:Q:133:LEU:HD11	10:Q:137:TYR:CE2	2.31	0.65
10:Q:57:LEU:C	10:Q:59:LYS:H	1.98	0.65
15:V:64:ASP:CA	15:V:139:ARG:NH1	2.57	0.65
15:V:288:VAL:O	15:V:292:MET:HG2	1.96	0.65
7:1:523:SER:HA	7:1:559:ARG:HD2	1.77	0.65
7:1:622:LEU:HB3	7:1:626:LEU:HD12	1.79	0.65
7:1:345:ASN:O	7:1:743:ASN:ND2	2.29	0.65
9:3:427:ASP:O	9:3:431:LYS:HG3	1.96	0.65
10:4:190:LEU:HD21	10:4:214:SER:HA	1.78	0.65
10:4:56:LEU:O	10:4:60:THR:N	2.30	0.65
11:5:362:LYS:HE2	11:5:362:LYS:HA	1.78	0.65
14:8:40:LEU:CD1	14:8:91:ILE:CD1	2.74	0.65
9:3:432:LEU:CD2	15:9:309:PHE:HD2	2.10	0.65
2:H:143:ASP:OD2	2:H:146:LYS:CG	2.45	0.65
2:H:176:ASP:O	33:H:501:ADP:C2	2.49	0.65
1:I:390:LEU:HD11	1:I:395:ILE:CG1	2.25	0.65
5:J:92:GLU:OE1	5:J:95:PHE:CE2	2.50	0.65
6:K:190:LEU:HB3	6:K:194:ILE:HD12	1.79	0.65
3:L:291:ARG:HE	3:L:294:ARG:NH1	1.90	0.65
3:L:385:ASP:OD1	3:L:385:ASP:N	2.29	0.65
3:L:316:HIS:HE1	33:L:401:ADP:N3	1.95	0.65
3:L:61:LEU:HD11	3:L:78:ARG:HE	1.62	0.65
4:M:359:GLU:O	4:M:363:ALA:N	2.27	0.65
7:N:12:LEU:HD11	7:N:48:LEU:HD11	1.78	0.65
7:N:610:VAL:HG11	14:U:178:ASP:CG	2.17	0.65
7:N:699:THR:HB	7:N:706:VAL:HG21	1.78	0.65
9:P:304:ASP:CG	9:P:324:TYR:HH	1.97	0.65
4:0:235:LEU:O	4:0:239:ALA:N	2.22	0.65
7:1:492:ASP:O	7:1:496:LEU:N	2.26	0.65
7:1:632:GLN:O	7:1:636:VAL:N	2.22	0.65
7:1:68:PHE:O	7:1:73:ALA:N	2.28	0.65
8:2:21:VAL:O	8:2:24:ARG:HB2	1.96	0.65
11:5:268:TYR:CE2	11:5:307:LEU:HD13	2.31	0.65
20:C:50:LYS:NZ	20:C:199:GLU:O	2.29	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:95:VAL:HG13	2:H:96:ALA:N	2.12	0.65
1:I:206:THR:C	1:I:208:PRO:CD	2.65	0.65
1:I:232:LYS:HZ2	1:I:332:ASN:HD22	1.45	0.65
1:I:94:GLU:HA	1:I:97:SER:OG	1.96	0.65
5:J:147:THR:O	5:J:150:MET:CG	2.37	0.65
5:J:203:VAL:O	5:J:207:THR:N	2.30	0.65
5:J:334:ARG:O	11:R:173:ASP:HB2	1.95	0.65
3:L:164:ILE:HD13	6:K:383:GLY:CA	2.26	0.65
6:K:370:ILE:HD11	6:K:407:ILE:HG13	1.78	0.65
6:K:93:LEU:C	6:K:93:LEU:HD12	2.17	0.65
3:L:56:ILE:CD1	4:M:132:TYR:HE1	2.10	0.65
4:M:360:GLU:O	4:M:364:ARG:N	2.29	0.65
4:M:232:GLY:CA	33:M:501:ADP:C8	2.79	0.65
7:N:86:ASP:OD1	7:N:87:LEU:N	2.25	0.65
8:O:116:THR:OG1	8:O:154:ARG:CG	2.45	0.65
8:O:132:LYS:HB2	8:O:162:TYR:HH	1.62	0.65
10:Q:222:GLU:OE2	10:Q:225:TRP:HH2	1.79	0.65
6:K:70:LYS:CE	14:U:182:THR:HG21	2.26	0.65
4:O:53:LYS:O	4:O:57:SER:N	2.20	0.65
7:1:696:ILE:HG22	7:1:697:GLN:HG2	1.79	0.65
11:5:237:ARG:HB2	11:5:264:TYR:OH	1.97	0.65
13:7:346:LEU:HA	13:7:349:ILE:HD12	1.77	0.65
18:AC:353:LEU:O	18:AC:356:ASN:O	2.15	0.65
1:I:136:LEU:CD2	2:H:87:LEU:CD2	2.63	0.65
3:L:253:ILE:CD1	4:M:308:ARG:HH12	2.10	0.65
10:Q:222:GLU:OE2	10:Q:225:TRP:CH2	2.50	0.65
10:Q:253:TYR:CE1	10:Q:319:ILE:CD1	2.73	0.65
14:U:38:VAL:HG13	14:U:56:VAL:HG21	1.79	0.65
16:W:131:LEU:HD13	16:W:138:VAL:HG21	1.76	0.65
9:3:166:LEU:O	9:3:189:GLN:HG2	1.97	0.65
10:4:96:PHE:CE2	10:4:106:GLU:HA	2.32	0.65
10:4:255:LEU:HD21	10:4:270:LEU:HB2	1.79	0.65
12:6:299:GLN:O	12:6:300:LEU:CG	2.45	0.65
12:6:330:LYS:CG	12:6:360:TYR:HE2	2.07	0.65
12:6:469:THR:HG21	14:8:250:TYR:CD2	2.30	0.65
14:8:108:ILE:O	14:8:111:LEU:HB3	1.97	0.65
14:8:83:LYS:NZ	14:8:89:GLU:O	2.30	0.65
14:8:96:HIS:HE1	14:8:100:LYS:O	1.80	0.65
15:9:71:ASP:OD2	15:9:104:ARG:HD3	1.96	0.65
2:H:132:THR:O	2:H:134:ILE:N	2.26	0.65
2:H:241:ILE:HG22	2:H:243:SER:H	1.62	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:212:VAL:HG22	2:H:339:ARG:HB2	1.79	0.65
1:I:276:GLU:C	1:I:278:ALA:H	1.99	0.65
6:K:92:PHE:CD2	6:K:124:LEU:HG	2.31	0.65
6:K:79:VAL:O	6:K:82:ILE:HG22	1.96	0.65
3:L:155:ASN:OD1	3:L:158:LEU:HD12	1.97	0.65
4:M:293:THR:HG23	4:M:337:ILE:HG23	1.79	0.65
8:O:108:ASP:O	8:O:111:VAL:N	2.30	0.65
9:P:82:LEU:O	9:P:86:ASN:N	2.30	0.65
10:Q:163:LYS:HD2	10:Q:200:ILE:HG22	1.73	0.65
10:Q:162:ASP:OD2	10:Q:165:LEU:HD12	1.96	0.65
10:Q:183:LEU:CD1	10:Q:220:ALA:HB1	2.10	0.65
10:Q:239:TYR:HB3	10:Q:247:ALA:H	1.61	0.65
11:R:71:ASN:HB3	11:R:75:LYS:HZ2	1.62	0.65
11:R:90:ASP:O	11:R:94:ASN:CG	2.35	0.65
13:T:327:ASP:C	13:T:331:PRO:HG2	2.17	0.65
16:W:139:ASP:OD2	16:W:187:PRO:O	2.15	0.65
4:0:233:LYS:CG	4:0:354:PHE:CD2	2.79	0.65
4:0:260:PHE:HB2	4:0:263:ASP:OD2	1.97	0.65
4:0:80:ILE:HG23	4:0:84:LYS:CE	2.25	0.65
8:2:38:THR:O	8:2:42:LEU:CB	2.45	0.65
11:5:50:MET:HE2	11:5:53:TYR:CD2	2.31	0.65
15:9:225:TRP:C	15:9:227:GLU:H	2.00	0.65
16:AA:19:GLY:HA2	16:AA:25:ARG:H	1.61	0.65
18:AC:255:VAL:O	18:AC:256:PHE:C	2.34	0.65
18:AC:730:GLY:O	18:AC:734:SER:N	2.27	0.65
1:I:162:VAL:CG1	1:I:163:LEU:N	2.59	0.65
5:J:271:ARG:HG2	5:J:275:GLU:OE1	1.97	0.65
3:L:338:PHE:HA	3:L:378:LYS:HZ2	1.61	0.65
4:M:229:PRO:HA	4:M:333:ASN:HD22	1.62	0.65
4:M:399:VAL:CB	4:M:427:VAL:HG21	2.24	0.65
8:O:21:VAL:O	8:O:24:ARG:HB2	1.96	0.65
9:P:209:ILE:HG23	9:P:226:TYR:OH	1.96	0.65
10:Q:260:MET:SD	10:Q:325:LYS:CB	2.85	0.65
4:0:310:MET:HE1	4:0:339:ASP:OD2	1.96	0.65
10:4:109:LEU:O	10:4:112:GLU:HB2	1.97	0.65
11:5:208:PHE:CD2	11:5:216:TYR:CD1	2.79	0.65
15:9:251:LEU:CD1	15:9:283:HIS:CB	2.75	0.65
16:AA:32:ALA:HB2	16:AA:179:LEU:HD23	1.79	0.65
2:H:277:ILE:HD12	2:H:277:ILE:N	2.12	0.65
1:I:390:LEU:HD11	1:I:395:ILE:HD11	1.79	0.65
1:I:405:MET:HE2	1:I:421:LYS:HD2	1.77	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:J:85:VAL:HG21	5:J:99:VAL:HG12	1.77	0.65
6:K:230:VAL:HG11	6:K:235:PHE:CZ	2.32	0.65
3:L:185:ARG:HA	4:M:320:PHE:HZ	1.61	0.65
7:N:347:ASN:CG	7:N:883:ARG:HH22	2.00	0.65
10:Q:255:LEU:HD21	10:Q:270:LEU:HB2	1.79	0.65
10:Q:410:VAL:HG22	15:V:256:ASN:HB2	1.78	0.65
14:U:139:ILE:O	14:U:155:PHE:HA	1.97	0.65
14:U:83:LYS:NZ	14:U:89:GLU:O	2.30	0.65
15:V:266:THR:HB	15:V:267:PRO:HD3	1.79	0.65
15:V:284:LEU:O	15:V:288:VAL:HG23	1.97	0.65
15:V:58:LEU:HB2	15:V:71:ASP:HB2	1.77	0.65
4:0:360:GLU:O	4:0:364:ARG:N	2.29	0.64
7:1:201:LEU:CG	7:1:202:VAL:N	2.59	0.64
13:7:276:GLU:OE2	13:7:306:ARG:NH2	2.29	0.64
14:8:139:ILE:O	14:8:155:PHE:HA	1.97	0.64
20:C:225:VAL:O	20:C:229:LEU:HG	1.98	0.64
1:I:250:VAL:HG11	1:I:270:LEU:HD22	1.78	0.64
5:J:115:ALA:O	5:J:124:HIS:N	2.31	0.64
5:J:328:ILE:HA	5:J:331:ILE:HD12	1.79	0.64
5:J:92:GLU:OE1	5:J:95:PHE:HE2	1.80	0.64
6:K:228:ILE:HG21	6:K:250:VAL:HG13	1.78	0.64
6:K:345:PHE:CE2	6:K:360:LEU:HD21	2.32	0.64
3:L:172:LEU:CD2	3:L:301:ILE:HD11	2.20	0.64
7:N:201:LEU:CG	7:N:202:VAL:N	2.59	0.64
7:N:696:ILE:HG22	7:N:697:GLN:HG2	1.79	0.64
8:O:38:THR:O	8:O:42:LEU:CB	2.45	0.64
10:Q:276:ALA:C	10:Q:278:ARG:N	2.50	0.64
11:R:237:ARG:HB2	11:R:264:TYR:OH	1.97	0.64
14:U:108:ILE:O	14:U:111:LEU:HB3	1.97	0.64
4:0:142:ALA:HA	4:0:145:LEU:CD1	2.21	0.64
4:0:265:ALA:HA	4:0:312:GLU:HG2	1.79	0.64
4:0:78:GLU:HA	4:0:81:LYS:HG3	1.80	0.64
8:2:223:GLU:HA	8:2:226:ARG:CG	2.27	0.64
9:3:231:ILE:CG1	9:3:247:TYR:CZ	2.80	0.64
9:3:23:THR:HA	9:3:40:LEU:CB	2.27	0.64
11:5:268:TYR:HB3	11:5:323:PHE:HE1	1.63	0.64
13:7:236:LEU:C	13:7:238:GLU:H	1.99	0.64
14:8:38:VAL:HG13	14:8:56:VAL:HG21	1.79	0.64
15:9:64:ASP:CA	15:9:139:ARG:NH1	2.57	0.64
23:F:20:ARG:HD2	4:0:435:LEU:CD1	2.27	0.64
2:H:177:VAL:HG11	2:H:184:ILE:HD11	1.78	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:132:TYR:OH	2:H:153:LEU:HD22	1.97	0.64
1:I:246:THR:HG1	1:I:280:SER:HB3	1.56	0.64
5:J:188:LEU:HB3	5:J:317:PHE:HE1	1.61	0.64
5:J:214:VAL:CG2	5:J:234:LEU:CD1	2.75	0.64
6:K:41:TYR:CZ	7:N:183:LEU:HD23	2.32	0.64
3:L:148:VAL:C	3:L:167:PRO:HG2	2.16	0.64
4:M:375:VAL:CG1	4:M:376:SER:N	2.59	0.64
4:M:399:VAL:CA	4:M:427:VAL:CG2	2.43	0.64
7:N:377:HIS:HB3	7:N:411:ILE:HG23	1.79	0.64
9:P:432:LEU:CD2	15:V:309:PHE:HD2	2.10	0.64
10:Q:190:LEU:HD21	10:Q:214:SER:HA	1.78	0.64
13:T:236:LEU:C	13:T:238:GLU:H	1.99	0.64
15:V:225:TRP:C	15:V:227:GLU:H	2.00	0.64
16:W:32:ALA:HB2	16:W:179:LEU:HD23	1.79	0.64
4:O:90:VAL:HA	4:O:151:VAL:O	1.98	0.64
7:1:146:LYS:O	7:1:149:GLN:HB3	1.97	0.64
7:1:35:TRP:O	7:1:39:SER:N	2.29	0.64
7:1:377:HIS:HB3	7:1:411:ILE:HG23	1.79	0.64
5:J:338:LEU:HD22	5:J:342:ILE:HD13	1.79	0.64
5:J:88:LYS:HA	5:J:94:LYS:HA	1.79	0.64
3:L:221:TYR:O	3:L:225:HIS:HB2	1.98	0.64
3:L:257:LEU:C	3:L:257:LEU:HD13	2.17	0.64
3:L:312:ILE:CD1	33:L:401:ADP:N6	2.59	0.64
3:L:344:ARG:CZ	33:L:401:ADP:O2'	2.44	0.64
8:O:223:GLU:HA	8:O:226:ARG:CG	2.27	0.64
9:P:384:LEU:HD22	9:P:388:GLU:CB	2.28	0.64
11:R:268:TYR:HB3	11:R:323:PHE:HE1	1.63	0.64
12:S:299:GLN:O	12:S:300:LEU:CG	2.45	0.64
4:O:47:LEU:O	4:O:51:GLU:N	2.29	0.64
4:O:87:PRO:HB2	4:O:155:LYS:CE	2.27	0.64
7:1:201:LEU:CG	7:1:202:VAL:H	2.11	0.64
10:4:218:HIS:HD2	10:4:231:TYR:CE2	2.15	0.64
12:6:480:ILE:HD12	12:6:480:ILE:H	1.63	0.64
15:9:266:THR:HB	15:9:267:PRO:HD3	1.79	0.64
16:AA:129:LYS:HB3	16:AA:133:LYS:HE3	1.80	0.64
18:AC:720:GLU:O	18:AC:724:ASN:N	2.28	0.64
2:H:307:ASP:HB2	2:H:336:ARG:HG2	1.79	0.64
2:H:307:ASP:OD2	2:H:335:GLY:O	2.15	0.64
1:I:204:PRO:O	1:I:208:PRO:CB	2.42	0.64
1:I:247:PHE:CE2	5:J:283:PHE:HZ	2.14	0.64
1:I:220:LYS:HB2	1:I:348:ASP:OD2	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:K:348:ILE:HG22	6:K:379:CYS:CB	2.27	0.64
7:N:405:THR:HG21	7:N:438:GLN:O	1.98	0.64
7:N:398:ASN:HB3	7:N:437:TYR:CD2	2.33	0.64
7:N:745:THR:O	7:N:784:THR:N	2.31	0.64
9:P:166:LEU:O	9:P:189:GLN:HG2	1.97	0.64
10:Q:218:HIS:HD2	10:Q:231:TYR:CE2	2.15	0.64
11:R:186:LEU:HA	11:R:201:PHE:CZ	2.31	0.64
14:U:69:PHE:HZ	16:W:63:THR:HG21	1.62	0.64
16:W:97:LEU:HD13	16:W:107:MET:HB3	1.78	0.64
4:0:246:ALA:CB	4:0:280:PRO:HG2	2.28	0.64
4:0:295:ARG:HD2	4:0:339:ASP:CG	2.07	0.64
4:0:312:GLU:O	4:0:316:GLN:CG	2.39	0.64
7:1:27:LEU:O	7:1:31:VAL:N	2.31	0.64
7:1:604:HIS:O	7:1:608:SER:N	2.31	0.64
7:1:616:ARG:NH1	7:1:650:TYR:CE2	2.65	0.64
9:3:401:THR:O	9:3:402:ILE:HG23	1.97	0.64
9:3:401:THR:O	9:3:402:ILE:CG2	2.46	0.64
10:4:251:LEU:CD1	10:4:276:ALA:HB1	2.27	0.64
10:4:260:MET:SD	10:4:325:LYS:CB	2.85	0.64
18:AC:265:ALA:O	18:AC:269:ALA:N	2.31	0.64
2:H:416:VAL:HA	2:H:420:TYR:CD2	2.32	0.64
1:I:252:GLY:O	1:I:255:LEU:N	2.30	0.64
1:I:369:THR:HG23	1:I:399:CYS:SG	2.37	0.64
5:J:329:LEU:CD2	5:J:344:LEU:HB3	2.27	0.64
6:K:129:SER:C	6:K:143:LEU:HB2	2.17	0.64
6:K:93:LEU:CG	6:K:94:GLU:HG3	2.26	0.64
3:L:145:LEU:HD13	3:L:299:ILE:HD13	1.80	0.64
3:L:61:LEU:HD11	3:L:72:LYS:HB2	1.80	0.64
4:M:225:MET:CG	4:M:354:PHE:CZ	2.80	0.64
4:M:260:PHE:HB2	4:M:263:ASP:OD2	1.97	0.64
7:N:616:ARG:NH1	7:N:650:TYR:CE2	2.65	0.64
8:O:4:VAL:HG22	8:O:26:GLU:OE2	1.97	0.64
9:P:317:TRP:HZ3	9:P:320:LEU:CG	2.10	0.64
10:Q:370:LEU:HD21	11:R:306:GLN:NE2	2.13	0.64
14:U:96:HIS:HE1	14:U:100:LYS:O	1.80	0.64
12:S:469:THR:CG2	14:U:250:TYR:CG	2.80	0.64
18:Z:661:ALA:CB	18:Z:693:ALA:O	2.46	0.64
7:1:399:TRP:O	7:1:403:THR:N	2.31	0.64
7:1:458:ILE:O	7:1:462:LEU:N	2.22	0.64
7:1:556:MET:HA	7:1:559:ARG:HD3	1.80	0.64
8:2:108:ASP:O	8:2:111:VAL:N	2.30	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:5:168:ILE:CG2	11:5:177:ARG:HE	2.10	0.64
14:8:69:PHE:HZ	16:AA:63:THR:HG21	1.62	0.64
18:AC:796:LEU:O	18:AC:799:VAL:N	2.31	0.64
1:I:234:LEU:O	1:I:238:ALA:N	2.25	0.64
1:I:313:LEU:CG	1:I:346:ARG:NH1	2.49	0.64
1:I:369:THR:HB	1:I:374:LEU:HD12	1.73	0.64
5:J:41:ASN:O	5:J:44:ARG:N	2.31	0.64
3:L:145:LEU:HD13	3:L:299:ILE:CD1	2.26	0.64
4:M:142:ALA:HA	4:M:145:LEU:CD1	2.21	0.64
2:H:120:LYS:HB2	4:M:90:VAL:CG2	2.27	0.64
9:P:401:THR:O	9:P:402:ILE:HG23	1.97	0.64
11:R:228:MET:HE1	11:R:263:LEU:HB2	1.80	0.64
13:T:89:GLN:CB	13:T:115:GLU:OE1	2.46	0.64
16:W:119:ASP:OD1	16:W:120:ASN:N	2.28	0.64
7:1:12:LEU:HD11	7:1:48:LEU:HD11	1.78	0.64
10:4:410:VAL:HG22	15:9:256:ASN:HB2	1.78	0.64
13:7:299:MET:CG	13:7:300:THR:N	2.60	0.64
16:AA:15:TYR:HB2	16:AA:114:GLY:HA2	1.80	0.64
16:AA:97:LEU:HD13	16:AA:107:MET:HB3	1.78	0.64
18:AC:734:SER:CB	18:AC:768:LEU:O	2.46	0.64
1:I:271:PHE:CB	1:I:315:GLN:NE2	2.60	0.64
1:I:290:ILE:O	1:I:305:ILE:CG2	2.45	0.64
5:J:274:LEU:HG	5:J:305:LEU:CD1	2.27	0.64
5:J:88:LYS:HE3	5:J:93:GLY:HA2	1.79	0.64
5:J:65:LEU:HD21	6:K:114:ARG:CZ	2.28	0.64
5:J:66:LEU:O	6:K:136:SER:HA	1.98	0.64
4:M:294:LYS:CG	4:M:339:ASP:OD1	2.46	0.64
4:M:231:THR:HG22	4:M:356:MET:HA	1.79	0.64
4:M:89:LEU:HD13	4:M:128:THR:HG23	1.80	0.64
4:M:89:LEU:HD21	4:M:126:THR:CG2	2.28	0.64
7:N:27:LEU:O	7:N:31:VAL:N	2.31	0.64
7:N:475:HIS:O	7:N:479:LEU:N	2.31	0.64
11:R:304:TYR:HD1	11:R:304:TYR:H	1.44	0.64
15:V:251:LEU:CD1	15:V:283:HIS:CB	2.75	0.64
16:W:13:SER:H	16:W:16:MET:HB2	1.62	0.64
4:0:89:LEU:HD21	4:0:126:THR:CG2	2.28	0.64
4:0:231:THR:HG22	4:0:356:MET:HA	1.79	0.64
7:1:801:GLN:HA	7:1:879:ASP:HB2	1.80	0.64
9:3:180:LYS:CG	9:3:181:GLU:H	2.11	0.64
9:3:269:SER:O	9:3:273:TYR:HD2	1.80	0.64
9:3:317:TRP:HZ3	9:3:320:LEU:CG	2.10	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:5:234:PRO:CD	11:5:235:ASP:H	2.10	0.64
13:7:349:ILE:HG21	14:8:267:ARG:HH22	1.63	0.64
16:AA:2:VAL:O	16:AA:47:ASN:ND2	2.28	0.64
2:H:233:THR:O	2:H:234:ASP:CB	2.30	0.64
1:I:424:GLU:CA	1:I:428:TYR:CE2	2.71	0.64
5:J:219:LEU:CD2	6:K:286:GLN:HG2	2.28	0.64
6:K:149:SER:HB2	6:K:250:VAL:CG2	2.25	0.64
6:K:372:GLY:O	33:K:501:ADP:C8	2.51	0.64
2:H:297:ARG:NH1	4:M:306:VAL:HG21	2.12	0.64
7:N:201:LEU:CG	7:N:202:VAL:H	2.11	0.64
4:0:225:MET:CG	4:0:354:PHE:CZ	2.80	0.64
4:0:229:PRO:HA	4:0:333:ASN:HD22	1.62	0.64
4:0:80:ILE:O	4:0:84:LYS:N	2.30	0.64
9:3:82:LEU:O	9:3:86:ASN:N	2.30	0.64
10:4:65:GLU:O	10:4:69:LEU:N	2.31	0.64
11:5:379:ARG:NH1	11:5:379:ARG:HG3	2.13	0.64
12:6:484:LEU:HD13	13:7:345:GLN:CB	2.17	0.64
15:9:284:LEU:O	15:9:288:VAL:HG23	1.97	0.64
15:9:288:VAL:O	15:9:292:MET:HG2	1.96	0.64
21:D:6:ASP:OD2	22:E:3:TYR:OH	2.10	0.64
2:H:271:LEU:HD23	2:H:316:LYS:HB2	1.80	0.64
2:H:394:MET:O	2:H:398:ARG:N	2.30	0.64
1:I:218:PRO:CG	1:I:326:LYS:NZ	2.61	0.64
1:I:339:PRO:CG	2:H:425:ALA:CB	2.75	0.64
3:L:235:ILE:CD1	3:L:277:MET:SD	2.85	0.64
4:M:384:LEU:C	4:M:387:CYS:SG	2.77	0.64
7:N:334:ALA:O	7:N:338:HIS:N	2.20	0.64
7:N:353:LEU:HG	7:N:357:LYS:HE2	1.80	0.64
12:S:296:LYS:HD3	12:S:304:GLU:CG	2.28	0.64
12:S:330:LYS:CG	12:S:360:TYR:HE2	2.07	0.64
16:W:15:TYR:HB2	16:W:114:GLY:HA2	1.80	0.64
18:Z:265:ALA:O	18:Z:269:ALA:N	2.31	0.64
4:0:175:MET:CE	4:0:251:LEU:HD13	2.28	0.64
4:0:397:LYS:O	4:0:401:VAL:N	2.26	0.64
8:2:347:LYS:NZ	8:2:351:ASP:OD2	2.31	0.64
9:3:304:ASP:CG	9:3:324:TYR:HH	2.02	0.64
10:4:171:LEU:HD21	10:4:210:LEU:HA	1.81	0.64
10:4:32:LYS:CB	10:4:33:ARG:CA	2.76	0.64
8:2:363:MET:HG3	15:9:308:VAL:HG22	1.80	0.64
2:H:299:MET:HE1	2:H:303:ILE:CD1	2.24	0.64
1:I:170:LEU:HD11	1:I:269:GLU:CB	2.26	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:J:189:TYR:HH	5:J:316:GLU:HG2	1.56	0.64
3:L:171:LEU:CD1	3:L:277:MET:C	2.66	0.64
3:L:87:LEU:HD11	3:L:107:ILE:HG22	1.78	0.64
4:M:395:GLN:O	4:M:427:VAL:HG11	1.98	0.64
9:P:180:LYS:CG	9:P:181:GLU:H	2.11	0.64
10:Q:302:PHE:CD2	10:Q:330:LEU:HD12	2.33	0.64
10:Q:332:GLU:CD	10:Q:364:LYS:HD3	2.19	0.64
12:S:480:ILE:H	12:S:480:ILE:HD12	1.63	0.64
14:U:174:HIS:O	14:U:177:ARG:HG2	1.98	0.64
7:1:353:LEU:HG	7:1:357:LYS:HE2	1.80	0.63
7:1:745:THR:O	7:1:784:THR:N	2.31	0.63
9:3:12:ARG:O	9:3:16:MET:N	2.30	0.63
9:3:153:LYS:CE	9:3:162:ALA:CA	2.73	0.63
9:3:451:MET:SD	9:3:451:MET:N	2.71	0.63
13:7:341:GLU:O	13:7:345:GLN:N	2.24	0.63
16:AA:139:ASP:OD2	16:AA:187:PRO:O	2.15	0.63
16:AA:13:SER:H	16:AA:16:MET:HB2	1.62	0.63
18:AC:318:THR:C	18:AC:322:SER:H	2.01	0.63
24:G:196:ARG:HD3	24:G:239:ARG:CZ	2.28	0.63
2:H:111:TYR:OH	2:H:125:LEU:HD22	1.98	0.63
1:I:230:THR:HG21	1:I:353:PHE:HB2	1.73	0.63
5:J:114:VAL:CG1	5:J:126:ILE:CB	2.72	0.63
5:J:160:GLU:OE1	5:J:313:ARG:CZ	2.45	0.63
5:J:81:ASP:O	5:J:82:LYS:HB2	1.96	0.63
3:L:356:ARG:O	3:L:358:ASP:N	2.30	0.63
3:L:93:LYS:HB3	3:L:94:PRO:HD3	1.79	0.63
4:M:175:MET:CE	4:M:251:LEU:HD13	2.28	0.63
4:M:80:ILE:O	4:M:84:LYS:N	2.30	0.63
7:N:158:ARG:HA	7:N:193:PHE:CE1	2.33	0.63
7:N:353:LEU:O	7:N:357:LYS:N	2.29	0.63
7:N:622:LEU:HB3	7:N:626:LEU:HD12	1.79	0.63
10:Q:171:LEU:HD21	10:Q:210:LEU:HA	1.81	0.63
12:S:482:PHE:HE1	12:S:486:ILE:HD11	1.60	0.63
13:T:299:MET:CG	13:T:300:THR:N	2.60	0.63
13:T:349:ILE:HG21	14:U:267:ARG:HH22	1.63	0.63
14:U:37:GLY:HA2	14:U:56:VAL:HG23	1.80	0.63
15:V:71:ASP:OD2	15:V:104:ARG:CD	2.47	0.63
15:V:248:MET:HE3	15:V:288:VAL:HG23	1.79	0.63
4:0:202:ILE:HD13	4:0:329:ILE:HD11	1.75	0.63
7:1:165:LYS:O	7:1:168:LEU:HB2	1.99	0.63
7:1:475:HIS:O	7:1:479:LEU:N	2.31	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:1:347:ASN:CG	7:1:883:ARG:HH22	2.00	0.63
10:4:157:LEU:CB	10:4:166:LEU:CD1	2.77	0.63
10:4:222:GLU:OE2	10:4:225:TRP:CH2	2.50	0.63
10:4:415:TYR:CZ	11:5:383:LEU:HB2	2.34	0.63
11:5:250:LEU:CD2	11:5:257:ARG:CB	2.62	0.63
18:AC:438:ASP:O	18:AC:442:SER:N	2.21	0.63
2:H:383:ALA:O	2:H:386:ARG:HB3	1.97	0.63
1:I:350:LYS:HB2	2:H:420:TYR:CE1	2.33	0.63
1:I:365:PHE:CE2	1:I:383:LEU:HB3	2.33	0.63
1:I:424:GLU:HG2	1:I:428:TYR:CZ	2.32	0.63
6:K:70:LYS:CD	14:U:182:THR:HG21	2.29	0.63
3:L:150:GLU:HA	3:L:153:LEU:HD21	1.79	0.63
7:N:680:VAL:HB	7:N:683:VAL:HG23	1.80	0.63
8:O:306:GLU:O	8:O:309:LEU:N	2.32	0.63
9:P:180:LYS:O	9:P:184:GLU:HB2	1.98	0.63
11:R:168:ILE:CG2	11:R:177:ARG:HE	2.10	0.63
11:R:208:PHE:CD2	11:R:216:TYR:CD1	2.79	0.63
10:Q:415:TYR:CD1	11:R:383:LEU:CB	2.81	0.63
7:1:140:ARG:O	7:1:144:ASP:N	2.28	0.63
7:1:398:ASN:HB3	7:1:437:TYR:CD2	2.33	0.63
7:1:56:SER:O	7:1:59:PHE:N	2.25	0.63
7:1:680:VAL:HB	7:1:683:VAL:HG23	1.80	0.63
8:2:306:GLU:O	8:2:309:LEU:N	2.32	0.63
9:3:180:LYS:O	9:3:184:GLU:HB2	1.98	0.63
9:3:48:LEU:HD21	9:3:90:LEU:CG	2.28	0.63
10:4:239:TYR:HB2	10:4:247:ALA:HB2	1.81	0.63
10:4:370:LEU:HD21	11:5:306:GLN:NE2	2.13	0.63
11:5:186:LEU:HA	11:5:201:PHE:CZ	2.31	0.63
12:6:296:LYS:HD3	12:6:304:GLU:CG	2.28	0.63
2:H:190:VAL:HG11	2:H:212:VAL:CB	2.28	0.63
2:H:299:MET:CE	2:H:328:ASP:HB3	2.23	0.63
1:I:399:CYS:HA	1:I:419:PHE:CE1	2.34	0.63
5:J:151:ILE:O	5:J:151:ILE:HG22	1.98	0.63
5:J:78:ARG:O	5:J:86:LEU:HB3	1.98	0.63
3:L:61:LEU:HD13	3:L:78:ARG:HD3	1.81	0.63
4:M:80:ILE:HG23	4:M:84:LYS:CE	2.25	0.63
4:M:80:ILE:HG23	4:M:84:LYS:HE3	1.80	0.63
9:P:231:ILE:CG1	9:P:247:TYR:CZ	2.80	0.63
9:P:256:ILE:HG22	9:P:262:LYS:HD3	1.81	0.63
9:P:451:MET:SD	9:P:451:MET:N	2.71	0.63
10:Q:65:GLU:O	10:Q:69:LEU:N	2.31	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:R:208:PHE:CD2	11:R:216:TYR:HD1	2.12	0.63
4:O:172:VAL:HG21	4:O:270:ASP:HB2	1.81	0.63
7:1:158:ARG:HA	7:1:193:PHE:CE1	2.33	0.63
7:1:233:LEU:HA	7:1:236:LEU:HB3	1.81	0.63
9:3:384:LEU:HD22	9:3:388:GLU:CB	2.28	0.63
10:4:415:TYR:CD1	11:5:383:LEU:CB	2.81	0.63
12:6:472:PRO:CD	12:6:473:GLN:H	2.09	0.63
15:9:251:LEU:HD13	15:9:283:HIS:HB3	1.81	0.63
18:AC:735:GLY:O	18:AC:776:LEU:O	2.16	0.63
2:H:138:MET:O	2:H:140:VAL:HG13	1.99	0.63
2:H:272:ILE:CG2	2:H:274:PHE:CZ	2.81	0.63
1:I:154:HIS:CE1	5:J:95:PHE:CD1	2.84	0.63
6:K:210:CYS:SG	6:K:334:PRO:C	2.75	0.63
6:K:354:LEU:HD12	6:K:394:VAL:H	1.62	0.63
3:L:195:PHE:CG	3:L:229:ILE:HB	2.31	0.63
3:L:281:ARG:HD3	3:L:284:THR:HG22	1.80	0.63
3:L:303:LEU:CD2	3:L:339:ASN:CA	2.64	0.63
3:L:312:ILE:HD13	33:L:401:ADP:C6	2.33	0.63
4:M:225:MET:HG2	4:M:354:PHE:CZ	2.30	0.63
7:N:146:LYS:O	7:N:149:GLN:HB3	1.97	0.63
9:P:401:THR:O	9:P:402:ILE:CG2	2.46	0.63
9:P:23:THR:HA	9:P:40:LEU:CB	2.27	0.63
10:Q:96:PHE:CE2	10:Q:106:GLU:HA	2.32	0.63
9:P:432:LEU:HD22	15:V:309:PHE:HD2	1.62	0.63
4:O:294:LYS:CG	4:O:339:ASP:OD1	2.46	0.63
4:O:80:ILE:HG23	4:O:84:LYS:HE3	1.80	0.63
7:1:389:ASN:HB3	7:1:392:TRP:HB2	1.81	0.63
10:4:76:PHE:O	10:4:80:ILE:O	2.17	0.63
12:6:472:PRO:HD2	12:6:473:GLN:N	2.12	0.63
13:7:95:TYR:O	13:7:99:LYS:CB	2.40	0.63
14:8:22:HIS:HD2	14:8:35:VAL:HG12	1.42	0.63
14:8:37:GLY:HA2	14:8:56:VAL:HG23	1.80	0.63
19:B:202:LEU:O	19:B:205:VAL:HG12	1.99	0.63
21:D:68:LEU:HD11	21:D:74:CYS:HB3	1.80	0.63
2:H:172:VAL:O	2:H:228:ALA:HA	1.99	0.63
1:I:315:GLN:HE22	1:I:322:ARG:NH2	1.92	0.63
1:I:349:ARG:HH11	1:I:349:ARG:HG3	1.64	0.63
6:K:113:VAL:HG23	6:K:139:LEU:HD12	1.80	0.63
6:K:363:TYR:HB3	6:K:403:TYR:CZ	2.34	0.63
3:L:122:MET:HE1	3:L:218:MET:CG	2.28	0.63
3:L:172:LEU:HD13	3:L:180:LYS:HA	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:265:ALA:HA	4:M:312:GLU:HG2	1.79	0.63
7:N:399:TRP:O	7:N:403:THR:N	2.31	0.63
9:P:269:SER:O	9:P:273:TYR:HD2	1.80	0.63
10:Q:297:ARG:CG	10:Q:333:GLN:HB3	2.29	0.63
11:R:345:CYS:SG	11:R:354:VAL:HG13	2.38	0.63
12:S:480:ILE:N	12:S:480:ILE:HD12	2.14	0.63
7:N:6:ALA:HB1	13:T:169:ALA:HB1	1.80	0.63
13:T:236:LEU:C	13:T:238:GLU:N	2.52	0.63
14:U:99:PRO:O	14:U:123:ILE:HG21	1.97	0.63
18:Z:735:GLY:O	18:Z:776:LEU:O	2.16	0.63
7:1:116:ALA:O	7:1:119:PRO:O	2.17	0.63
11:5:345:CYS:SG	11:5:354:VAL:HG13	2.38	0.63
18:AC:272:LEU:O	18:AC:273:ASN:C	2.37	0.63
2:H:275:ASP:O	2:H:276:GLU:HB2	1.99	0.63
1:I:350:LYS:HB2	2:H:420:TYR:HE1	1.64	0.63
6:K:191:TYR:HA	6:K:196:ILE:HD12	1.81	0.63
8:O:213:PHE:HE2	8:O:240:PHE:CG	2.17	0.63
11:R:379:ARG:HG3	11:R:379:ARG:NH1	2.13	0.63
12:S:469:THR:OG1	14:U:254:ASN:ND2	2.32	0.63
4:0:289:ASP:O	4:0:290:ALA:C	2.36	0.63
4:0:414:GLU:N	4:0:414:GLU:OE2	2.28	0.63
10:4:190:LEU:HD22	10:4:217:ILE:HD12	1.80	0.63
11:5:179:ARG:HH12	11:5:209:THR:HB	1.64	0.63
11:5:186:LEU:N	11:5:201:PHE:CE1	2.63	0.63
8:2:370:GLN:HB2	13:7:337:LYS:CD	2.29	0.63
20:C:44:VAL:HG22	20:C:183:LEU:CD1	2.29	0.63
5:J:63:LEU:HD12	6:K:79:VAL:CG2	2.21	0.63
6:K:42:SER:O	6:K:46:LYS:HB2	1.98	0.63
5:J:46:GLN:CB	6:K:61:ILE:HG21	2.29	0.63
3:L:126:ASP:CG	3:L:197:LYS:CD	2.48	0.63
4:M:90:VAL:HA	4:M:151:VAL:O	1.98	0.63
4:M:87:PRO:HB2	4:M:155:LYS:CE	2.27	0.63
7:N:116:ALA:O	7:N:119:PRO:O	2.17	0.63
7:N:227:GLN:O	7:N:231:ASP:N	2.16	0.63
8:O:347:LYS:NZ	8:O:351:ASP:OD2	2.31	0.63
10:Q:157:LEU:CB	10:Q:166:LEU:CD1	2.77	0.63
15:V:254:ASN:C	15:V:280:PRO:HG3	2.19	0.63
25:X:151:ILE:O	25:X:151:ILE:HG22	2.92	0.63
18:Z:796:LEU:O	18:Z:799:VAL:N	2.31	0.63
7:1:112:CYS:O	7:1:116:ALA:N	2.23	0.63
7:1:423:MET:O	7:1:427:LEU:N	2.32	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:1:714:SER:HA	7:1:717:ILE:HB	1.81	0.63
8:2:4:VAL:HG12	8:2:26:GLU:OE2	1.97	0.63
10:4:212:MET:HE1	10:4:249:THR:HG22	1.80	0.63
7:1:6:ALA:HB1	13:7:169:ALA:HB1	1.80	0.63
14:8:223:ASN:O	14:8:225:GLN:N	2.32	0.63
12:6:494:MET:CB	14:8:275:LEU:CD2	2.77	0.63
15:9:254:ASN:C	15:9:280:PRO:HG3	2.19	0.63
2:H:125:LEU:CD1	2:H:126:SER:O	2.45	0.63
1:I:272:ARG:HG2	1:I:272:ARG:NH1	2.10	0.63
1:I:271:PHE:CB	1:I:315:GLN:HE22	2.12	0.63
5:J:220:VAL:HG12	5:J:224:ILE:HD12	1.79	0.63
6:K:205:TYR:HE1	6:K:332:GLU:CA	2.12	0.63
6:K:381:GLU:HG3	6:K:405:THR:CG2	2.28	0.63
3:L:195:PHE:HE1	3:L:229:ILE:HG13	1.54	0.63
3:L:69:PHE:HZ	3:L:83:CYS:SG	2.21	0.63
4:M:169:ASP:O	4:M:172:VAL:N	2.31	0.63
4:M:289:ASP:O	4:M:290:ALA:C	2.36	0.63
7:N:119:PRO:CG	7:N:120:GLU:H	2.12	0.63
7:N:135:ASN:O	7:N:139:GLN:N	2.29	0.63
8:O:63:PHE:O	8:O:66:GLU:HB2	1.99	0.63
11:R:363:ASN:HD22	12:S:466:ILE:HG23	1.59	0.63
12:S:360:TYR:HE1	12:S:395:ILE:HD11	1.63	0.63
12:S:494:MET:CB	14:U:275:LEU:CD2	2.77	0.63
16:W:129:LYS:HB3	16:W:133:LYS:HE3	1.80	0.63
18:Z:318:THR:C	18:Z:322:SER:H	2.00	0.63
18:Z:734:SER:CB	18:Z:768:LEU:O	2.46	0.63
7:1:405:THR:HG21	7:1:438:GLN:O	1.98	0.63
7:1:35:TRP:CZ2	7:1:70:HIS:HB3	2.34	0.63
8:2:248:PHE:CD2	8:2:272:ILE:HD11	2.33	0.63
9:3:440:ASN:O	9:3:443:THR:OG1	2.16	0.63
13:7:89:GLN:CB	13:7:115:GLU:OE1	2.46	0.63
22:E:209:ALA:HB1	22:E:217:LEU:HD11	1.79	0.63
5:J:114:VAL:HA	5:J:127:LEU:H	1.63	0.63
5:J:325:ARG:O	5:J:329:LEU:N	2.21	0.63
5:J:354:ALA:HA	5:J:358:GLU:CD	2.10	0.63
5:J:356:GLY:HA3	33:J:501:ADP:C8	2.34	0.63
6:K:83:GLN:HG2	6:K:140:VAL:CG1	2.29	0.63
3:L:108:MET:O	3:L:109:ARG:CB	2.46	0.63
7:N:505:ASP:CG	7:N:508:THR:H	2.03	0.63
7:N:768:GLN:O	7:N:775:LEU:HD12	1.99	0.63
7:N:801:GLN:HA	7:N:879:ASP:HB2	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:P:408:ARG:HB2	10:Q:345:VAL:HA	1.80	0.63
10:Q:320:SER:O	10:Q:322:HIS:N	2.32	0.63
7:N:35:TRP:CZ2	12:S:273:LYS:HE2	2.34	0.63
14:U:223:ASN:O	14:U:225:GLN:N	2.32	0.63
16:W:111:ALA:O	16:W:141:ILE:N	2.27	0.63
4:O:399:VAL:CG2	4:O:427:VAL:HG21	2.28	0.62
7:1:192:GLN:O	7:1:196:LYS:CG	2.47	0.62
7:1:369:THR:OG1	7:1:731:ILE:HG21	1.99	0.62
8:2:274:LEU:HD23	8:2:275:LEU:CA	2.29	0.62
9:3:384:LEU:HB3	9:3:388:GLU:CB	2.13	0.62
10:4:320:SER:O	10:4:322:HIS:N	2.32	0.62
12:6:360:TYR:HE1	12:6:395:ILE:HD11	1.63	0.62
5:J:116:LEU:HD23	5:J:121:TYR:CE1	2.34	0.62
1:I:228:PRO:C	5:J:307:ARG:HD3	2.19	0.62
6:K:171:ASP:O	6:K:175:GLN:N	2.26	0.62
3:L:126:ASP:OD1	4:M:320:PHE:HD2	1.80	0.62
3:L:223:ARG:O	3:L:226:GLN:CG	2.47	0.62
3:L:291:ARG:HD2	3:L:292:PRO:O	1.97	0.62
3:L:87:LEU:HD11	3:L:107:ILE:CG2	2.28	0.62
4:M:152:GLY:O	4:M:160:ILE:HA	1.99	0.62
4:M:53:LYS:O	4:M:57:SER:N	2.20	0.62
7:N:604:HIS:O	7:N:608:SER:N	2.31	0.62
10:Q:222:GLU:HG3	10:Q:225:TRP:HH2	1.59	0.62
14:U:173:GLU:HB3	15:V:152:LYS:O	1.99	0.62
18:Z:747:GLN:O	18:Z:751:TYR:N	2.31	0.62
7:1:119:PRO:CG	7:1:120:GLU:H	2.12	0.62
7:1:353:LEU:O	7:1:357:LYS:N	2.29	0.62
12:6:348:PHE:CG	12:6:361:PHE:HB2	2.34	0.62
15:9:71:ASP:OD2	15:9:104:ARG:CD	2.47	0.62
18:AC:747:GLN:O	18:AC:751:TYR:N	2.31	0.62
1:I:423:LYS:NZ	1:I:428:TYR:OH	2.30	0.62
5:J:117:ARG:N	5:J:122:THR:O	2.32	0.62
5:J:86:LEU:HD13	5:J:87:VAL:N	2.14	0.62
3:L:166:PRO:CB	3:L:274:LYS:HZ1	2.12	0.62
4:M:87:PRO:CG	4:M:155:LYS:HE2	2.29	0.62
7:N:556:MET:HA	7:N:559:ARG:HD3	1.80	0.62
5:J:381:GLU:CD	10:Q:191:THR:OG1	2.38	0.62
11:R:344:HIS:CD2	11:R:359:PRO:HG3	2.32	0.62
13:T:173:CYS:O	13:T:177:ASP:CB	2.47	0.62
16:W:139:ASP:HA	16:W:169:HIS:O	2.00	0.62
7:1:137:MET:O	7:1:141:CYS:N	2.26	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:2:284:ARG:HH11	8:2:291:LEU:CD2	2.07	0.62
12:6:480:ILE:N	12:6:480:ILE:HD12	2.14	0.62
13:7:259:PHE:HA	13:7:262:ILE:HD12	1.81	0.62
14:8:21:ASP:O	14:8:25:ARG:CB	2.48	0.62
15:9:251:LEU:HD11	15:9:283:HIS:ND1	2.14	0.62
1:I:187:ILE:CD1	1:I:194:ILE:HD12	2.25	0.62
1:I:316:LEU:HD11	1:I:327:VAL:HG21	1.80	0.62
6:K:129:SER:O	6:K:143:LEU:N	2.32	0.62
6:K:60:TYR:O	6:K:63:ASP:HB2	2.00	0.62
4:M:229:PRO:CA	4:M:333:ASN:HD22	2.12	0.62
4:M:78:GLU:HA	4:M:81:LYS:HG3	1.80	0.62
7:N:192:GLN:O	7:N:196:LYS:CG	2.47	0.62
7:N:405:THR:HB	7:N:441:GLY:HA3	1.82	0.62
8:O:363:MET:HG3	15:V:308:VAL:HG22	1.80	0.62
15:V:64:ASP:HA	15:V:139:ARG:HH12	1.62	0.62
16:W:173:VAL:CG1	25:X:232:ARG:HG3	239.81	0.62
18:Z:662:MET:C	18:Z:664:GLU:H	2.02	0.62
4:0:183:GLU:O	4:0:184:GLN:C	2.33	0.62
4:0:292:GLY:O	4:0:293:THR:OG1	2.17	0.62
4:0:359:GLU:O	4:0:363:ALA:N	2.27	0.62
11:5:267:ARG:O	11:5:270:VAL:HG13	1.99	0.62
12:6:298:ILE:CG2	13:7:213:GLU:HB2	2.30	0.62
14:8:70:LEU:CD2	14:8:111:LEU:HD22	2.09	0.62
15:9:234:TYR:CE1	15:9:298:GLN:CD	2.73	0.62
1:I:365:PHE:CE1	1:I:383:LEU:HD12	2.35	0.62
5:J:207:THR:CG2	5:J:209:CYS:HB2	2.29	0.62
1:I:173:VAL:CG1	5:J:232:ARG:HG3	2.30	0.62
5:J:87:VAL:O	5:J:95:PHE:N	2.29	0.62
3:L:171:LEU:HB2	3:L:277:MET:HB2	1.81	0.62
3:L:234:GLU:CD	4:M:315:ASN:HB2	2.20	0.62
4:M:246:ALA:CB	4:M:280:PRO:HG2	2.28	0.62
7:N:654:MET:O	7:N:658:ILE:N	2.30	0.62
11:R:225:TYR:HH	11:R:278:VAL:HG13	1.63	0.62
16:W:11:ASP:O	16:W:16:MET:CG	2.47	0.62
4:0:229:PRO:CA	4:0:333:ASN:HD22	2.12	0.62
4:0:228:PRO:HD2	4:0:354:PHE:O	1.99	0.62
7:1:357:LYS:HZ2	7:1:385:PHE:HB2	1.64	0.62
7:1:564:ASP:HA	7:1:567:ILE:HB	1.81	0.62
7:1:711:GLN:O	7:1:715:LYS:N	2.17	0.62
7:1:407:SER:HA	7:1:777:HIS:CD2	2.34	0.62
8:2:373:ASP:CG	13:7:347:GLU:OE1	2.38	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:7:173:CYS:O	13:7:177:ASP:CB	2.47	0.62
13:7:267:ILE:O	13:7:270:GLU:HB2	1.99	0.62
2:H:204:LEU:O	2:H:204:LEU:HG	1.99	0.62
2:H:254:ALA:HA	2:H:301:GLU:HG2	1.81	0.62
2:H:277:ILE:HD12	2:H:278:ASP:H	1.64	0.62
2:H:327:LEU:HD12	2:H:331:LEU:HD12	1.82	0.62
2:H:88:GLN:O	2:H:92:PRO:HD2	1.94	0.62
1:I:225:TYR:C	1:I:232:LYS:HE2	2.20	0.62
1:I:248:LEU:CD1	1:I:274:ALA:HB2	2.30	0.62
1:I:288:ASP:HB3	1:I:331:THR:HG21	1.81	0.62
1:I:254:GLU:HG2	5:J:275:GLU:HG2	1.80	0.62
5:J:291:VAL:O	5:J:291:VAL:HG22	1.99	0.62
6:K:152:MET:O	6:K:153:MET:HB3	1.99	0.62
3:L:322:LYS:HB2	3:L:326:ILE:CD1	2.26	0.62
4:M:150:LEU:HB3	4:M:164:LEU:HB2	1.82	0.62
4:M:399:VAL:CG2	4:M:427:VAL:HG21	2.28	0.62
7:N:389:ASN:HB3	7:N:392:TRP:HB2	1.81	0.62
7:N:787:CYS:O	7:N:909:GLY:O	2.18	0.62
8:O:347:LYS:HE2	8:O:351:ASP:OD2	1.99	0.62
10:Q:289:CYS:O	10:Q:293:ALA:CB	2.47	0.62
11:R:225:TYR:CZ	11:R:278:VAL:HG13	2.31	0.62
4:0:141:ASP:O	4:0:145:LEU:HG	2.00	0.62
4:0:225:MET:HG2	4:0:354:PHE:CZ	2.30	0.62
4:0:333:ASN:C	4:0:334:ARG:HG2	2.20	0.62
4:0:395:GLN:O	4:0:427:VAL:HG11	1.98	0.62
10:4:22:ALA:O	10:4:26:ILE:N	2.28	0.62
10:4:417:LYS:CG	15:9:263:ASP:OD2	2.48	0.62
11:5:208:PHE:CD2	11:5:216:TYR:HD1	2.12	0.62
2:H:111:TYR:HE1	2:H:125:LEU:CD2	1.62	0.62
2:H:230:ALA:HB2	2:H:237:PHE:CG	2.34	0.62
1:I:329:MET:HG3	1:I:347:ILE:CD1	2.29	0.62
6:K:215:LEU:O	6:K:219:VAL:HG23	2.00	0.62
3:L:370:ALA:O	3:L:374:VAL:N	2.24	0.62
7:N:233:LEU:HA	7:N:236:LEU:HB3	1.81	0.62
7:N:885:MET:HB3	7:N:888:GLN:H	1.65	0.62
8:O:373:ASP:CG	13:T:347:GLU:OE1	2.38	0.62
10:Q:76:PHE:O	10:Q:80:ILE:O	2.17	0.62
12:S:472:PRO:C	12:S:476:PHE:HD2	1.99	0.62
25:X:3:ILE:HG22	25:X:5:THR:OG1	2.00	0.62
4:0:376:SER:CB	4:0:377:PRO:CD	2.71	0.62
7:1:505:ASP:CG	7:1:508:THR:H	2.03	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:1:667:GLU:CG	7:1:668:ALA:N	2.63	0.62
8:2:274:LEU:C	8:2:274:LEU:HD23	2.20	0.62
8:2:63:PHE:O	8:2:66:GLU:HB2	1.99	0.62
9:3:256:ILE:HG22	9:3:262:LYS:HD3	1.81	0.62
10:4:289:CYS:O	10:4:293:ALA:CB	2.47	0.62
12:6:469:THR:OG1	14:8:254:ASN:ND2	2.32	0.62
14:8:92:VAL:HA	14:8:116:CYS:SG	2.40	0.62
2:H:174:TYR:CE2	2:H:184:ILE:HG21	2.33	0.62
2:H:291:GLY:O	2:H:293:ASN:N	2.26	0.62
5:J:154:LEU:O	5:J:158:ILE:CD1	2.47	0.62
3:L:344:ARG:NH2	33:L:401:ADP:O2'	2.31	0.62
4:M:249:LEU:HG	4:M:283:ILE:HG12	1.81	0.62
7:N:601:ARG:CZ	7:N:601:ARG:HB3	2.29	0.62
8:O:370:GLN:HB2	13:T:337:LYS:CD	2.29	0.62
9:P:440:ASN:O	9:P:443:THR:OG1	2.16	0.62
10:Q:206:LEU:C	10:Q:206:LEU:HD23	2.20	0.62
10:Q:260:MET:CE	10:Q:325:LYS:CB	2.78	0.62
11:R:179:ARG:HH12	11:R:209:THR:HB	1.64	0.62
12:S:472:PRO:CD	12:S:473:GLN:H	2.09	0.62
15:V:234:TYR:O	15:V:237:HIS:N	2.32	0.62
15:V:267:PRO:HD2	15:V:268:GLU:N	2.12	0.62
7:1:787:CYS:O	7:1:909:GLY:O	2.18	0.62
9:3:408:ARG:HB2	10:4:345:VAL:HA	1.80	0.62
11:5:17:LEU:O	11:5:20:ALA:N	2.32	0.62
12:6:434:ALA:O	12:6:437:ILE:N	2.33	0.62
9:3:432:LEU:HD22	15:9:309:PHE:HD2	1.62	0.62
15:9:31:VAL:HG12	15:9:67:VAL:HB	1.82	0.62
15:9:89:PRO:CD	15:9:90:VAL:H	2.12	0.62
2:H:346:PRO:HG3	2:H:354:ILE:HD11	1.81	0.62
2:H:362:MET:HE2	2:H:364:VAL:HG12	1.82	0.62
1:I:153:ASN:O	1:I:157:HIS:HA	2.00	0.62
1:I:175:LYS:HE3	1:I:277:HIS:ND1	2.14	0.62
1:I:278:ALA:HB1	1:I:279:PRO:HD3	1.81	0.62
6:K:94:GLU:O	6:K:101:ALA:HB1	2.00	0.62
3:L:122:MET:CE	3:L:218:MET:SD	2.88	0.62
3:L:290:LEU:HA	3:L:295:LEU:HD12	1.81	0.62
3:L:60:VAL:O	3:L:95:GLY:N	2.31	0.62
4:M:96:LEU:HD11	4:M:145:LEU:HB3	1.76	0.62
4:M:304:ARG:HG3	4:M:308:ARG:HH21	1.65	0.62
7:N:564:ASP:HA	7:N:567:ILE:HB	1.81	0.62
9:P:48:LEU:HD21	9:P:90:LEU:CG	2.28	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:Q:415:TYR:CZ	11:R:383:LEU:HB2	2.34	0.62
14:U:79:TYR:CD2	14:U:91:ILE:CG1	2.64	0.62
15:V:251:LEU:HD11	15:V:283:HIS:ND1	2.14	0.62
4:0:152:GLY:O	4:0:160:ILE:HA	1.99	0.62
4:0:169:ASP:O	4:0:172:VAL:N	2.31	0.62
4:0:367:GLN:HA	4:0:370:SER:OG	2.00	0.62
8:2:60:TYR:O	8:2:65:SER:N	2.33	0.62
10:4:200:ILE:C	10:4:200:ILE:HD12	2.19	0.62
10:4:85:ALA:O	10:4:89:VAL:CG2	2.47	0.62
11:5:286:TRP:CE2	11:5:287:LEU:HD22	2.35	0.62
11:5:229:ILE:CG1	11:5:295:TYR:OH	2.48	0.62
7:1:35:TRP:CZ2	12:6:273:LYS:HE2	2.34	0.62
12:6:414:TYR:CD1	12:6:417:ILE:HD11	2.35	0.62
14:8:174:HIS:O	14:8:177:ARG:HG2	1.98	0.62
15:9:71:ASP:OD1	15:9:104:ARG:NH1	2.33	0.62
16:AA:139:ASP:HA	16:AA:169:HIS:O	1.99	0.62
19:B:201:CYS:O	19:B:205:VAL:HG12	2.00	0.62
2:H:103:ASN:O	2:H:112:ILE:HB	2.00	0.62
2:H:277:ILE:HG21	2:H:319:MET:HG2	1.81	0.62
1:I:152:LEU:HA	1:I:158:ALA:O	2.00	0.62
5:J:167:LEU:HD21	5:J:174:LEU:CD1	2.30	0.62
6:K:175:GLN:NE2	6:K:179:GLU:OE2	2.33	0.62
6:K:203:LEU:HD23	6:K:309:MET:O	1.99	0.62
6:K:166:ASP:OD2	6:K:214:MET:CE	2.48	0.62
6:K:403:TYR:CA	6:K:407:ILE:CD1	2.78	0.62
4:M:137:ILE:CG2	4:M:140:VAL:HG23	2.23	0.62
4:M:312:GLU:O	4:M:316:GLN:CG	2.39	0.62
3:L:234:GLU:OE1	4:M:315:ASN:HB2	2.00	0.62
4:M:333:ASN:C	4:M:334:ARG:HG2	2.20	0.62
7:N:35:TRP:CZ2	7:N:70:HIS:HB3	2.34	0.62
7:N:369:THR:OG1	7:N:731:ILE:HG21	1.99	0.62
7:N:462:LEU:O	7:N:466:LYS:N	2.22	0.62
9:P:12:ARG:O	9:P:16:MET:N	2.30	0.62
10:Q:257:CYS:O	10:Q:261:LEU:HG	2.00	0.62
7:1:654:MET:O	7:1:658:ILE:N	2.30	0.62
7:1:768:GLN:O	7:1:775:LEU:HD12	1.99	0.62
10:4:260:MET:HE2	10:4:322:HIS:HD2	1.64	0.62
2:H:353:HIS:O	2:H:357:ILE:HD12	1.99	0.62
1:I:398:ILE:O	1:I:419:PHE:CE1	2.53	0.62
5:J:229:ARG:C	5:J:230:MET:HG3	2.20	0.62
6:K:345:PHE:CE1	6:K:375:ILE:HG23	2.35	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:K:354:LEU:CA	6:K:393:ILE:CG2	2.67	0.62
3:L:156:PRO:HA	3:L:159:PHE:CD2	2.35	0.62
3:L:181:THR:HG21	4:M:319:GLY:CA	2.29	0.62
3:L:387:LYS:HG2	3:L:388:PRO:HD2	1.80	0.62
4:M:228:PRO:HD2	4:M:354:PHE:O	1.99	0.62
7:N:374:SER:O	7:N:378:CYS:N	2.33	0.62
9:P:55:ARG:O	9:P:56:THR:HG22	1.93	0.62
10:Q:200:ILE:HD12	10:Q:200:ILE:C	2.19	0.62
10:Q:212:MET:HE1	10:Q:250:SER:HB2	1.81	0.62
10:Q:296:ASN:OD1	10:Q:296:ASN:N	2.33	0.62
10:Q:53:LEU:O	10:Q:57:LEU:N	2.28	0.62
12:S:298:ILE:CG2	13:T:213:GLU:HB2	2.30	0.62
14:U:122:VAL:HG13	14:U:136:GLU:O	2.00	0.62
15:V:89:PRO:CD	15:V:90:VAL:H	2.12	0.62
4:0:194:GLN:HA	4:0:197:GLU:HG3	1.82	0.61
7:1:16:GLU:O	7:1:19:LEU:N	2.33	0.61
7:1:374:SER:O	7:1:378:CYS:N	2.33	0.61
9:3:351:TRP:HZ3	9:3:354:LEU:HD23	1.61	0.61
10:4:302:PHE:CD2	10:4:330:LEU:HD12	2.33	0.61
14:8:139:ILE:CG2	14:8:140:SER:N	2.63	0.61
1:I:287:ILE:N	1:I:287:ILE:HD12	2.14	0.61
1:I:379:THR:O	1:I:381:ASP:N	2.32	0.61
5:J:336:MET:HE1	5:J:367:GLY:HA3	1.82	0.61
5:J:46:GLN:CG	6:K:61:ILE:HG21	2.30	0.61
6:K:170:MET:O	6:K:174:LYS:CD	2.48	0.61
6:K:176:GLU:OE2	6:K:329:ARG:CD	2.45	0.61
6:K:98:GLN:O	6:K:99:ASN:ND2	2.33	0.61
3:L:198:VAL:HG12	3:L:203:ILE:HD11	1.74	0.61
3:L:198:VAL:O	3:L:232:MET:HA	2.00	0.61
3:L:185:ARG:HG3	4:M:320:PHE:CE1	2.35	0.61
7:N:165:LYS:O	7:N:168:LEU:HB2	1.99	0.61
7:N:423:MET:O	7:N:427:LEU:N	2.32	0.61
8:O:139:GLU:CB	8:O:155:PHE:HZ	2.13	0.61
9:P:48:LEU:CD2	9:P:90:LEU:HD11	2.27	0.61
10:Q:337:ARG:HG2	10:Q:340:GLU:OE1	2.00	0.61
10:Q:85:ALA:O	10:Q:89:VAL:N	2.27	0.61
5:J:339:THR:HG23	11:R:206:SER:O	1.99	0.61
11:R:267:ARG:O	11:R:270:VAL:HG13	1.99	0.61
12:S:463:MET:O	12:S:464:ILE:C	2.39	0.61
13:T:116:LEU:HD21	13:T:147:ILE:CG2	2.25	0.61
13:T:228:HIS:O	13:T:232:LEU:HB2	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:0:89:LEU:HD13	4:0:128:THR:HG23	1.80	0.61
4:0:87:PRO:CG	4:0:155:LYS:HE2	2.29	0.61
7:1:381:THR:HG23	7:1:412:HIS:ND1	2.15	0.61
7:1:412:HIS:HB2	7:1:449:ILE:HD11	1.82	0.61
9:3:48:LEU:CD2	9:3:90:LEU:HD11	2.27	0.61
9:3:55:ARG:O	9:3:56:THR:HG22	1.93	0.61
10:4:257:CYS:O	10:4:261:LEU:HG	2.00	0.61
10:4:296:ASN:N	10:4:296:ASN:OD1	2.33	0.61
12:6:472:PRO:C	12:6:476:PHE:HD2	1.99	0.61
14:8:74:TYR:CD1	15:9:101:GLN:OE1	2.54	0.61
19:B:202:LEU:O	19:B:205:VAL:CG1	2.48	0.61
5:J:134:LEU:HB2	5:J:237:MET:SD	2.40	0.61
6:K:154:LEU:O	6:K:155:THR:OG1	2.17	0.61
6:K:92:PHE:CE2	6:K:124:LEU:HG	2.36	0.61
3:L:350:ALA:HB2	3:L:366:ASP:O	2.00	0.61
3:L:65:THR:CG2	3:L:68:LYS:HD2	2.30	0.61
4:M:253:GLY:N	4:M:254:PRO:CD	2.63	0.61
7:N:414:GLY:N	7:N:449:ILE:HG23	2.15	0.61
8:O:274:LEU:HD23	8:O:274:LEU:C	2.20	0.61
8:O:274:LEU:HD23	8:O:275:LEU:CA	2.29	0.61
11:R:183:TYR:CD1	11:R:213:LEU:HD21	2.35	0.61
10:Q:397:TYR:CD2	11:R:365:GLN:OE1	2.52	0.61
12:S:348:PHE:CG	12:S:361:PHE:HB2	2.34	0.61
13:T:94:MET:O	13:T:98:LEU:HB2	1.99	0.61
14:U:92:VAL:HA	14:U:116:CYS:SG	2.40	0.61
6:K:80:LYS:CB	15:V:151:VAL:CG2	2.78	0.61
16:W:55:ALA:HA	16:W:83:LYS:C	2.14	0.61
4:0:384:LEU:C	4:0:387:CYS:SG	2.77	0.61
4:0:90:VAL:O	4:0:127:SER:OG	2.12	0.61
7:1:405:THR:HB	7:1:441:GLY:HA3	1.82	0.61
7:1:885:MET:HB3	7:1:888:GLN:H	1.65	0.61
10:4:183:LEU:CD1	10:4:220:ALA:HB3	2.30	0.61
10:4:218:HIS:NE2	10:4:231:TYR:HE2	1.98	0.61
11:5:344:HIS:CD2	11:5:359:PRO:HG3	2.32	0.61
12:6:82:LEU:HA	12:6:85:ALA:CB	2.31	0.61
13:7:236:LEU:C	13:7:238:GLU:N	2.52	0.61
15:9:234:TYR:O	15:9:237:HIS:N	2.32	0.61
18:AC:383:ALA:O	18:AC:384:ALA:HB3	1.99	0.61
2:H:368:ILE:CD1	2:H:409:PHE:CD2	2.83	0.61
1:I:203:LEU:CB	1:I:204:PRO:HD3	2.27	0.61
5:J:151:ILE:HD13	5:J:198:LEU:CB	2.29	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:J:66:LEU:O	6:K:136:SER:CB	2.47	0.61
6:K:283:ARG:O	6:K:287:ARG:HD2	1.99	0.61
6:K:359:ASP:C	6:K:361:GLU:N	2.50	0.61
5:J:127:LEU:HD22	6:K:96:VAL:HG21	1.81	0.61
3:L:241:ARG:O	3:L:242:ARG:HB2	1.99	0.61
3:L:316:HIS:CE1	33:L:401:ADP:N3	2.68	0.61
4:M:206:MET:HB2	4:M:327:LYS:HZ3	1.62	0.61
3:L:253:ILE:CG1	4:M:308:ARG:HH12	2.13	0.61
4:M:402:GLU:HA	4:M:405:MET:HE3	1.82	0.61
7:N:531:ASP:O	7:N:535:TYR:N	2.29	0.61
7:N:714:SER:HA	7:N:717:ILE:HB	1.81	0.61
10:Q:239:TYR:HB2	10:Q:247:ALA:HB2	1.81	0.61
11:R:128:TYR:HA	11:R:131:THR:HG21	1.83	0.61
13:T:337:LYS:O	13:T:341:GLU:N	2.17	0.61
14:U:176:LEU:CD2	15:V:217:LEU:HB2	2.30	0.61
15:V:234:TYR:CE1	15:V:298:GLN:CD	2.73	0.61
15:V:31:VAL:HG12	15:V:67:VAL:HB	1.82	0.61
16:W:161:ASN:ND2	16:W:164:ASP:HA	2.15	0.61
18:Z:383:ALA:O	18:Z:384:ALA:HB3	1.99	0.61
4:0:303:ASP:O	4:0:307:GLN:CD	2.38	0.61
11:5:183:TYR:CD1	11:5:213:LEU:HD21	2.35	0.61
12:6:262:SER:CB	13:7:214:ARG:O	2.48	0.61
13:7:94:MET:O	13:7:98:LEU:HB2	1.99	0.61
16:AA:11:ASP:O	16:AA:16:MET:CG	2.47	0.61
21:D:155:ASN:CG	22:E:77:THR:HG1	2.04	0.61
24:G:225:ASP:OD1	24:G:225:ASP:N	2.33	0.61
2:H:296:GLN:O	2:H:299:MET:HB3	2.01	0.61
1:I:339:PRO:CG	2:H:425:ALA:HB2	2.30	0.61
1:I:247:PHE:CE2	5:J:283:PHE:CZ	2.89	0.61
1:I:251:VAL:HB	1:I:254:GLU:HG3	1.82	0.61
5:J:130:LYS:O	5:J:131:VAL:CB	2.48	0.61
6:K:176:GLU:O	6:K:180:ALA:N	2.33	0.61
5:J:39:SER:HB2	6:K:54:LEU:HD13	1.81	0.61
6:K:71:GLU:OE2	6:K:74:HIS:CD2	2.54	0.61
3:L:150:GLU:C	3:L:152:PRO:HD2	2.21	0.61
4:M:284:PHE:CD1	4:M:285:ILE:N	2.66	0.61
7:N:381:THR:HG23	7:N:412:HIS:ND1	2.15	0.61
10:Q:251:LEU:CD1	10:Q:276:ALA:HB1	2.27	0.61
14:U:212:LEU:O	14:U:215:VAL:HB	2.00	0.61
14:U:23:PHE:CE1	14:U:28:LYS:O	2.43	0.61
15:V:251:LEU:HD13	15:V:283:HIS:CB	2.29	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:Z:272:LEU:O	18:Z:273:ASN:C	2.37	0.61
10:4:259:ILE:HG22	10:4:326:LEU:HD11	1.81	0.61
11:5:225:TYR:CE1	11:5:256:VAL:CB	2.82	0.61
11:5:268:TYR:HB3	11:5:323:PHE:CE1	2.35	0.61
14:8:122:VAL:HG13	14:8:136:GLU:O	2.00	0.61
2:H:125:LEU:HB2	2:H:149:ILE:HB	1.82	0.61
2:H:186:LYS:HB2	2:H:341:ILE:HD11	1.80	0.61
1:I:216:ILE:HD11	2:H:362:MET:HE1	1.82	0.61
1:I:106:PRO:HD3	5:J:120:SER:O	2.01	0.61
1:I:133:VAL:HB	1:I:158:ALA:HA	1.81	0.61
1:I:175:LYS:CE	1:I:277:HIS:CE1	2.84	0.61
1:I:290:ILE:HD12	1:I:309:MET:HE3	1.80	0.61
4:M:310:MET:O	4:M:314:LEU:HG	2.01	0.61
7:N:412:HIS:HB2	7:N:449:ILE:HD11	1.82	0.61
7:N:526:ALA:HA	7:N:529:ILE:HD12	1.83	0.61
7:N:546:ARG:HD3	7:N:768:GLN:NE2	2.16	0.61
10:Q:417:LYS:CG	15:V:263:ASP:OD2	2.48	0.61
12:S:262:SER:CB	13:T:214:ARG:O	2.48	0.61
14:U:21:ASP:O	14:U:25:ARG:CB	2.48	0.61
15:V:251:LEU:HD13	15:V:283:HIS:HB3	1.81	0.61
16:W:4:GLU:HB2	16:W:106:LYS:O	2.00	0.61
7:1:423:MET:HE1	7:1:445:ALA:CB	2.25	0.61
8:2:213:PHE:HE2	8:2:240:PHE:CG	2.17	0.61
8:2:343:LEU:C	8:2:343:LEU:HD13	2.20	0.61
10:4:260:MET:CE	10:4:325:LYS:CB	2.78	0.61
10:4:337:ARG:HG2	10:4:340:GLU:OE1	2.00	0.61
10:4:332:GLU:CD	10:4:364:LYS:HD3	2.19	0.61
10:4:332:GLU:OE2	10:4:368:MET:SD	2.59	0.61
10:4:85:ALA:O	10:4:89:VAL:N	2.27	0.61
11:5:128:TYR:HA	11:5:131:THR:HG21	1.83	0.61
11:5:362:LYS:CE	11:5:362:LYS:HA	2.31	0.61
14:8:176:LEU:CD2	15:9:217:LEU:HB2	2.30	0.61
15:9:257:LYS:HA	15:9:260:GLU:HG2	1.82	0.61
16:AA:111:ALA:O	16:AA:141:ILE:N	2.27	0.61
22:E:80:ALA:HA	22:E:129:ILE:HD13	1.81	0.61
1:I:232:LYS:HZ2	1:I:332:ASN:ND2	1.99	0.61
1:I:407:LEU:HD11	5:J:175:PHE:CD1	2.35	0.61
3:L:151:LEU:C	3:L:153:LEU:H	2.02	0.61
7:N:711:GLN:O	7:N:715:LYS:N	2.17	0.61
10:Q:107:VAL:O	10:Q:111:LEU:HB2	2.01	0.61
10:Q:134:VAL:HG22	10:Q:149:LEU:CD2	2.30	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:R:127:THR:O	11:R:131:THR:CG2	2.34	0.61
11:R:185:GLY:O	11:R:201:PHE:CZ	2.52	0.61
13:T:259:PHE:HA	13:T:262:ILE:HD12	1.81	0.61
4:O:188:ILE:O	4:O:368:ILE:CD1	2.48	0.61
7:1:323:LEU:O	7:1:327:LYS:N	2.33	0.61
7:1:526:ALA:HA	7:1:529:ILE:HD12	1.83	0.61
8:2:243:GLY:O	8:2:276:CYS:HA	2.00	0.61
10:4:258:LYS:HE3	10:4:266:ASP:OD2	1.99	0.61
10:4:271:VAL:HG11	10:4:288:LYS:HG3	1.82	0.61
15:9:207:TYR:HE2	15:9:209:LYS:HD2	1.66	0.61
15:9:251:LEU:HD13	15:9:283:HIS:CB	2.29	0.61
16:AA:113:VAL:N	16:AA:141:ILE:O	2.32	0.61
20:C:44:VAL:CG2	20:C:183:LEU:CD1	2.79	0.61
23:F:31:ILE:HD13	23:F:140:ALA:HB2	1.82	0.61
2:H:191:VAL:CG1	2:H:271:LEU:HD11	2.31	0.61
1:I:263:GLY:N	1:I:264:PRO:HD2	2.15	0.61
1:I:271:PHE:HB3	1:I:315:GLN:NE2	2.15	0.61
1:I:390:LEU:CD1	1:I:395:ILE:HD11	2.31	0.61
1:I:249:ARG:NH2	5:J:278:ASN:CB	2.63	0.61
5:J:193:GLY:O	5:J:355:SER:CB	2.49	0.61
5:J:43:ARG:HA	5:J:46:GLN:HB2	1.81	0.61
6:K:93:LEU:CD2	6:K:110:ASN:HD21	2.12	0.61
3:L:356:ARG:HH11	3:L:356:ARG:CG	2.14	0.61
3:L:253:ILE:CD1	4:M:261:ILE:HD11	2.26	0.61
4:M:367:GLN:HA	4:M:370:SER:OG	2.00	0.61
4:M:375:VAL:HG12	4:M:376:SER:H	1.66	0.61
7:N:377:HIS:HB2	7:N:411:ILE:HG12	1.82	0.61
11:R:133:ALA:CB	11:R:136:HIS:CD2	2.74	0.61
13:T:161:ILE:HA	13:T:164:PHE:CE2	2.35	0.61
4:O:293:THR:HG23	4:O:337:ILE:HG23	1.79	0.61
8:2:139:GLU:CB	8:2:155:PHE:HZ	2.13	0.61
8:2:347:LYS:HE2	8:2:351:ASP:OD2	1.99	0.61
10:4:218:HIS:CD2	10:4:227:THR:HG22	2.35	0.61
13:7:335:LEU:HA	13:7:338:GLN:HB2	1.81	0.61
15:9:64:ASP:HA	15:9:139:ARG:HH12	1.62	0.61
18:AC:127:SER:O	18:AC:131:MET:N	2.34	0.61
19:B:141:ILE:HG22	19:B:151:VAL:HG22	1.82	0.61
2:H:346:PRO:HG3	2:H:354:ILE:CD1	2.30	0.61
1:I:194:ILE:O	1:I:197:ILE:HG22	2.01	0.61
1:I:217:LYS:HB3	1:I:218:PRO:HD3	1.81	0.61
6:K:147:ALA:CB	6:K:249:ASP:CG	2.68	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:87:LEU:O	3:L:88:ASP:CB	2.48	0.61
4:M:303:ASP:O	4:M:307:GLN:CD	2.38	0.61
3:L:253:ILE:HG13	4:M:308:ARG:NH1	2.16	0.61
7:N:927:PRO:O	7:N:928:VAL:HG12	2.01	0.61
9:P:374:THR:HG22	9:P:375:MET:N	2.11	0.61
9:P:420:ASP:O	9:P:421:PRO:C	2.40	0.61
10:Q:205:LYS:O	10:Q:208:ALA:N	2.33	0.61
10:Q:258:LYS:HE3	10:Q:266:ASP:OD2	1.99	0.61
10:Q:259:ILE:HG22	10:Q:326:LEU:HD11	1.81	0.61
11:R:185:GLY:O	11:R:201:PHE:HE2	1.83	0.61
11:R:366:TYR:CE1	11:R:370:ILE:HG13	2.36	0.61
15:V:71:ASP:OD1	15:V:104:ARG:NH1	2.33	0.61
4:0:150:LEU:HB3	4:0:164:LEU:HB2	1.82	0.61
4:0:237:ALA:CB	4:0:284:PHE:HE2	2.13	0.61
4:0:272:PHE:HE2	4:0:316:GLN:HB2	1.64	0.61
7:1:601:ARG:CZ	7:1:601:ARG:HB3	2.29	0.61
9:3:209:ILE:HD13	9:3:226:TYR:CD1	2.36	0.61
10:4:107:VAL:O	10:4:111:LEU:HB2	2.01	0.61
10:4:205:LYS:O	10:4:208:ALA:N	2.33	0.61
11:5:168:ILE:HG21	11:5:177:ARG:CG	2.31	0.61
13:7:116:LEU:HD21	13:7:147:ILE:CG2	2.25	0.61
14:8:173:GLU:HB3	15:9:152:LYS:O	1.99	0.61
2:H:161:VAL:O	2:H:263:MET:HE1	2.00	0.61
2:H:204:LEU:CD2	2:H:206:ILE:CG2	2.78	0.61
2:H:313:GLY:C	2:H:315:ILE:HD12	2.21	0.61
1:I:252:GLY:O	1:I:255:LEU:HB2	2.00	0.61
1:I:290:ILE:HD13	1:I:309:MET:CG	2.31	0.61
5:J:392:GLN:O	5:J:396:GLU:HB2	2.01	0.61
6:K:302:ASN:N	6:K:302:ASN:HD22	1.99	0.61
3:L:197:LYS:HA	3:L:231:PHE:O	2.00	0.61
3:L:322:LYS:NZ	3:L:326:ILE:CD1	2.64	0.61
4:M:194:GLN:HA	4:M:197:GLU:HG3	1.82	0.61
3:L:201:SER:HB2	4:M:312:GLU:OE1	1.98	0.61
4:M:272:PHE:HE2	4:M:316:GLN:CB	2.08	0.61
10:Q:332:GLU:OE2	10:Q:368:MET:SD	2.59	0.61
11:R:168:ILE:HG21	11:R:177:ARG:CG	2.31	0.61
5:J:335:LYS:CA	11:R:173:ASP:CB	2.73	0.61
12:S:414:TYR:CD1	12:S:417:ILE:HD11	2.35	0.61
13:T:267:ILE:O	13:T:270:GLU:HB2	1.99	0.61
16:W:63:THR:CG2	16:W:64:LEU:N	2.64	0.61
18:Z:484:GLY:O	18:Z:488:ALA:N	2.31	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:0:87:PRO:CB	4:0:155:LYS:CE	2.73	0.61
7:1:177:LEU:O	7:1:181:LEU:N	2.25	0.61
10:4:397:TYR:CD2	11:5:365:GLN:OE1	2.52	0.61
16:AA:161:ASN:ND2	16:AA:164:ASP:HA	2.15	0.61
18:AC:238:ASN:O	18:AC:244:GLU:HA	2.01	0.61
22:E:38:ARG:NE	22:E:181:ILE:O	2.30	0.61
1:I:285:ASP:O	1:I:286:GLU:HB2	2.01	0.61
6:K:105:SER:HB2	6:K:109:SER:OG	1.99	0.61
6:K:167:ILE:HD13	6:K:218:ALA:CB	2.28	0.61
4:M:172:VAL:HG21	4:M:270:ASP:HB2	1.81	0.61
4:M:229:PRO:HB3	4:M:333:ASN:HD22	1.64	0.61
10:Q:218:HIS:CD2	10:Q:227:THR:HG22	2.35	0.61
11:R:256:VAL:HG13	11:R:257:ARG:N	2.16	0.61
12:S:169:LEU:CD1	12:S:206:VAL:HG23	2.18	0.61
12:S:302:TYR:OH	12:S:397:ARG:NH1	2.30	0.61
12:S:434:ALA:O	12:S:437:ILE:N	2.33	0.61
13:T:345:GLN:O	13:T:349:ILE:HD11	2.01	0.61
15:V:237:HIS:HD2	15:V:238:CYS:N	1.99	0.61
4:0:226:TYR:CG	4:0:335:VAL:CG2	2.65	0.60
4:0:253:GLY:N	4:0:254:PRO:CD	2.63	0.60
13:7:270:GLU:O	13:7:274:CYS:N	2.26	0.60
2:H:183:GLN:OE1	2:H:183:GLN:N	2.34	0.60
2:H:195:LEU:HD13	2:H:235:ALA:HB2	1.83	0.60
5:J:118:ASN:O	5:J:121:TYR:CD1	2.54	0.60
6:K:296:MET:HE2	6:K:326:ARG:O	2.01	0.60
6:K:348:ILE:CG2	6:K:379:CYS:CB	2.80	0.60
3:L:334:LEU:HD21	3:L:372:ARG:HH11	1.65	0.60
4:M:141:ASP:O	4:M:145:LEU:HG	2.00	0.60
4:M:399:VAL:CG2	4:M:427:VAL:CG2	2.78	0.60
7:N:191:LYS:CG	7:N:194:ARG:HH21	2.14	0.60
10:Q:245:PRO:HD2	10:Q:246:LYS:H	1.66	0.60
10:Q:251:LEU:HD11	10:Q:276:ALA:HB2	1.82	0.60
11:R:228:MET:CE	11:R:263:LEU:CD2	2.79	0.60
11:R:234:PRO:CD	11:R:235:ASP:H	2.10	0.60
11:R:286:TRP:CE2	11:R:287:LEU:HD22	2.35	0.60
12:S:236:ARG:O	12:S:239:THR:OG1	2.16	0.60
15:V:207:TYR:HE2	15:V:209:LYS:HD2	1.66	0.60
18:Z:238:ASN:O	18:Z:244:GLU:HA	2.01	0.60
18:Z:598:CYS:O	18:Z:599:ALA:HB2	2.01	0.60
4:0:229:PRO:CB	4:0:333:ASN:ND2	2.64	0.60
7:1:414:GLY:N	7:1:449:ILE:HG23	2.15	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:4:260:MET:CE	10:4:325:LYS:HB2	2.31	0.60
14:8:79:TYR:HE2	14:8:91:ILE:HB	1.66	0.60
18:AC:776:LEU:HA	18:AC:827:PRO:HA	1.83	0.60
20:C:198:PHE:CE1	20:C:206:ASN:HB3	2.34	0.60
2:H:302:LEU:HD11	2:H:306:LEU:CD2	2.28	0.60
2:H:402:LYS:HG3	2:H:403:ILE:N	2.16	0.60
1:I:115:ILE:CA	1:I:121:ALA:CB	2.75	0.60
1:I:197:ILE:HG12	1:I:235:LEU:CD1	2.31	0.60
5:J:147:THR:HG22	5:J:150:MET:HE3	1.82	0.60
1:I:249:ARG:HH21	5:J:278:ASN:HB2	1.63	0.60
5:J:373:GLU:CG	5:J:375:ARG:HD2	2.25	0.60
6:K:149:SER:H	6:K:150:SER:C	2.03	0.60
6:K:259:PRO:HA	6:K:304:ASN:O	2.01	0.60
4:M:292:GLY:O	4:M:293:THR:OG1	2.17	0.60
4:M:265:ALA:CB	4:M:312:GLU:HG2	2.31	0.60
4:M:232:GLY:HA3	33:M:501:ADP:N7	2.16	0.60
7:N:423:MET:CE	7:N:445:ALA:CB	2.74	0.60
8:O:243:GLY:O	8:O:276:CYS:HA	2.00	0.60
9:P:449:GLU:O	9:P:453:HIS:N	2.32	0.60
10:Q:190:LEU:HD22	10:Q:217:ILE:HD12	1.80	0.60
10:Q:218:HIS:NE2	10:Q:231:TYR:HE2	1.98	0.60
10:Q:61:GLY:C	10:Q:63:ALA:N	2.53	0.60
11:R:234:PRO:HD2	11:R:235:ASP:N	2.14	0.60
14:U:74:TYR:CD1	15:V:101:GLN:OE1	2.54	0.60
18:Z:429:ILE:O	18:Z:433:LEU:N	2.29	0.60
4:0:232:GLY:HA3	33:0:501:ADP:N7	2.16	0.60
4:0:265:ALA:CB	4:0:312:GLU:HG2	2.31	0.60
7:1:191:LYS:CG	7:1:194:ARG:HH21	2.14	0.60
8:2:11:SER:CB	8:2:22:TRP:CB	2.78	0.60
9:3:420:ASP:O	9:3:421:PRO:C	2.40	0.60
9:3:449:GLU:O	9:3:453:HIS:N	2.32	0.60
11:5:349:LYS:HB3	12:6:417:ILE:CD1	2.31	0.60
13:7:161:ILE:HA	13:7:164:PHE:CE2	2.35	0.60
16:AA:4:GLU:HB2	16:AA:106:LYS:O	2.00	0.60
2:H:272:ILE:HD12	2:H:315:ILE:HG22	1.83	0.60
1:I:288:ASP:H	1:I:331:THR:HG23	1.67	0.60
5:J:164:VAL:HG13	5:J:165:ILE:HG13	1.82	0.60
5:J:298:ILE:O	5:J:301:LEU:HG	2.01	0.60
5:J:54:ALA:O	5:J:58:LEU:HB2	2.01	0.60
6:K:205:TYR:OH	6:K:332:GLU:HG2	2.01	0.60
6:K:258:ALA:HB1	6:K:259:PRO:HD3	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:K:188:PHE:HD2	6:K:304:ASN:HD21	1.47	0.60
3:L:372:ARG:O	3:L:376:ASP:N	2.34	0.60
4:M:229:PRO:HB3	4:M:333:ASN:ND2	2.16	0.60
8:O:343:LEU:C	8:O:343:LEU:HD13	2.20	0.60
9:P:209:ILE:HD13	9:P:226:TYR:CD1	2.36	0.60
10:Q:32:LYS:CB	10:Q:33:ARG:CA	2.76	0.60
10:Q:358:LYS:CG	10:Q:359:ALA:N	2.64	0.60
11:R:366:TYR:CZ	12:S:472:PRO:HB3	2.36	0.60
12:S:82:LEU:HA	12:S:85:ALA:CB	2.31	0.60
14:U:175:LEU:O	14:U:177:ARG:N	2.34	0.60
18:Z:127:SER:O	18:Z:131:MET:N	2.34	0.60
4:0:304:ARG:HG3	4:0:308:ARG:HH21	1.65	0.60
4:0:310:MET:O	4:0:314:LEU:HG	2.01	0.60
4:0:359:GLU:O	4:0:362:ARG:HB2	2.01	0.60
7:1:377:HIS:HB2	7:1:411:ILE:HG12	1.82	0.60
11:5:191:ILE:C	11:5:291:HIS:CE1	2.75	0.60
12:6:348:PHE:CD2	12:6:361:PHE:CB	2.85	0.60
12:6:487:HIS:O	12:6:487:HIS:ND1	2.35	0.60
13:7:228:HIS:O	13:7:232:LEU:HB2	2.00	0.60
16:AA:55:ALA:HA	16:AA:83:LYS:C	2.14	0.60
1:I:231:GLY:O	1:I:353:PHE:HE2	1.83	0.60
1:I:313:LEU:CD1	1:I:340:ALA:HB3	2.26	0.60
1:I:349:ARG:HG3	1:I:349:ARG:NH1	2.17	0.60
1:I:414:VAL:CG1	1:I:418:ASP:HB2	2.30	0.60
5:J:161:ILE:HA	5:J:164:VAL:HG12	1.84	0.60
5:J:273:MET:SD	5:J:305:LEU:HD21	2.40	0.60
6:K:130:VAL:C	6:K:143:LEU:CD2	2.69	0.60
7:N:402:PHE:CB	7:N:437:TYR:HB3	2.20	0.60
10:Q:260:MET:CE	10:Q:325:LYS:HB2	2.31	0.60
11:R:186:LEU:N	11:R:201:PHE:CE1	2.63	0.60
11:R:349:LYS:HB3	12:S:417:ILE:CD1	2.31	0.60
4:0:229:PRO:HB3	4:0:333:ASN:HD22	1.64	0.60
4:0:375:VAL:HG12	4:0:376:SER:H	1.66	0.60
7:1:535:TYR:O	7:1:539:THR:N	2.32	0.60
9:3:209:ILE:HG23	9:3:226:TYR:OH	1.96	0.60
13:7:215:LEU:O	13:7:216:PRO:C	2.39	0.60
18:AC:598:CYS:O	18:AC:599:ALA:HB2	2.01	0.60
2:H:157:ILE:CG2	2:H:263:MET:CG	2.78	0.60
1:I:214:MET:HE1	2:H:393:GLY:O	2.01	0.60
5:J:232:ARG:HG3	5:J:232:ARG:NH1	2.17	0.60
6:K:91:GLN:CA	6:K:128:ALA:O	2.44	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:K:152:MET:O	6:K:153:MET:CB	2.47	0.60
3:L:145:LEU:HD11	3:L:149:ILE:HD11	1.83	0.60
4:M:141:ASP:O	4:M:144:LYS:HB2	2.01	0.60
7:N:16:GLU:O	7:N:19:LEU:N	2.33	0.60
7:N:229:VAL:O	7:N:233:LEU:N	2.26	0.60
9:P:67:LEU:HA	9:P:70:VAL:CG1	2.31	0.60
10:Q:260:MET:HE2	10:Q:322:HIS:HD2	1.66	0.60
11:R:191:ILE:C	11:R:291:HIS:CE1	2.75	0.60
11:R:362:LYS:CA	11:R:362:LYS:HE2	2.31	0.60
13:T:335:LEU:HA	13:T:338:GLN:HB2	1.81	0.60
14:U:139:ILE:CG2	14:U:140:SER:N	2.63	0.60
14:U:273:HIS:CD2	15:V:255:TYR:OH	2.54	0.60
10:4:206:LEU:C	10:4:206:LEU:HD23	2.20	0.60
10:4:360:ASP:HA	10:4:363:ARG:CB	2.31	0.60
10:4:53:LEU:O	10:4:57:LEU:N	2.28	0.60
11:5:366:TYR:HE1	11:5:370:ILE:HG13	1.67	0.60
12:6:471:GLU:N	12:6:472:PRO:HD3	2.16	0.60
14:8:175:LEU:O	14:8:177:ARG:N	2.34	0.60
14:8:212:LEU:O	14:8:215:VAL:HB	2.00	0.60
14:8:273:HIS:CD2	15:9:255:TYR:OH	2.54	0.60
16:AA:128:ALA:HA	16:AA:131:LEU:HD12	1.84	0.60
16:AA:63:THR:CG2	16:AA:64:LEU:N	2.64	0.60
2:H:421:ALA:O	2:H:424:SER:OG	2.11	0.60
1:I:184:TYR:CD1	1:I:238:ALA:HB1	2.36	0.60
1:I:373:THR:HB	1:I:413:LYS:HG2	1.81	0.60
6:K:205:TYR:CD2	6:K:314:ALA:HB2	2.35	0.60
6:K:247:VAL:HG12	6:K:251:PHE:CD2	2.37	0.60
3:L:151:LEU:N	3:L:152:PRO:CD	2.65	0.60
3:L:322:LYS:HZ2	3:L:326:ILE:CD1	2.13	0.60
3:L:241:ARG:NH1	4:M:299:GLU:OE2	2.34	0.60
4:M:310:MET:CE	4:M:339:ASP:OD2	2.49	0.60
7:N:324:LYS:O	7:N:328:ILE:N	2.33	0.60
8:O:11:SER:CB	8:O:22:TRP:CB	2.78	0.60
8:O:364:GLU:HG3	8:O:365:MET:N	2.16	0.60
11:R:268:TYR:HB3	11:R:323:PHE:CE1	2.35	0.60
12:S:471:GLU:N	12:S:472:PRO:HD3	2.16	0.60
7:1:596:ASN:O	7:1:600:ARG:N	2.24	0.60
11:5:256:VAL:HG13	11:5:257:ARG:N	2.16	0.60
14:8:22:HIS:HD2	14:8:35:VAL:HG11	1.32	0.60
14:8:79:TYR:CE1	14:8:83:LYS:CE	2.71	0.60
15:9:237:HIS:HD2	15:9:238:CYS:N	1.99	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:C:134:LEU:CG	20:C:162:MET:SD	2.79	0.60
20:C:198:PHE:HZ	20:C:206:ASN:CB	2.07	0.60
2:H:245:LEU:O	2:H:247:GLN:NE2	2.34	0.60
2:H:83:ASP:O	2:H:86:THR:N	2.35	0.60
1:I:106:PRO:CB	5:J:97:VAL:CG1	2.77	0.60
1:I:362:LYS:HA	1:I:384:ILE:HD11	1.84	0.60
6:K:276:ASP:O	6:K:282:ASP:HB2	2.02	0.60
3:L:145:LEU:HD12	3:L:299:ILE:HD11	1.84	0.60
7:N:323:LEU:O	7:N:327:LYS:N	2.33	0.60
7:N:647:HIS:HA	7:N:650:TYR:HB3	1.84	0.60
8:O:60:TYR:O	8:O:65:SER:N	2.33	0.60
10:Q:370:LEU:HG	11:R:233:ARG:CD	2.31	0.60
11:R:17:LEU:O	11:R:20:ALA:N	2.32	0.60
10:4:134:VAL:HG22	10:4:149:LEU:CD2	2.30	0.60
10:4:28:HIS:O	10:4:32:LYS:N	2.35	0.60
11:5:362:LYS:HE2	11:5:362:LYS:CA	2.31	0.60
12:6:268:GLU:CG	12:6:269:LYS:N	2.65	0.60
2:H:210:LYS:O	2:H:316:LYS:HA	2.02	0.60
1:I:290:ILE:O	1:I:290:ILE:HG12	2.01	0.60
5:J:86:LEU:HD13	5:J:86:LEU:C	2.23	0.60
6:K:391:ARG:NH1	6:K:395:LEU:CG	2.53	0.60
4:M:188:ILE:O	4:M:368:ILE:CD1	2.48	0.60
7:N:667:GLU:CG	7:N:668:ALA:N	2.63	0.60
10:Q:22:ALA:O	10:Q:26:ILE:N	2.28	0.60
11:R:263:LEU:HB2	11:R:271:PHE:CD2	2.36	0.60
11:R:366:TYR:CE2	12:S:472:PRO:HB3	2.37	0.60
14:U:252:LYS:HA	14:U:252:LYS:HE3	1.84	0.60
14:U:43:TRP:HA	14:U:48:LEU:HD21	1.80	0.60
16:W:113:VAL:N	16:W:141:ILE:O	2.32	0.60
16:W:2:VAL:O	16:W:47:ASN:ND2	2.28	0.60
4:0:137:ILE:CG2	4:0:140:VAL:HG23	2.23	0.60
24:G:166:GLN:NE2	4:0:383:GLU:HA	2.17	0.60
4:0:399:VAL:HG23	4:0:427:VAL:CB	2.32	0.60
4:0:399:VAL:CG2	4:0:427:VAL:CG2	2.78	0.60
11:5:366:TYR:CE1	11:5:370:ILE:HG13	2.36	0.60
15:9:61:PHE:CE2	15:9:139:ARG:HB2	2.37	0.60
24:G:225:ASP:O	24:G:226:ASP:HB2	2.00	0.60
5:J:160:GLU:HB2	5:J:315:ILE:CD1	2.09	0.60
4:M:90:VAL:HG12	4:M:164:LEU:CD1	2.32	0.60
4:0:141:ASP:O	4:0:144:LYS:HB2	2.01	0.60
4:0:310:MET:CE	4:0:339:ASP:OD2	2.49	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:2:108:ASP:O	8:2:109:GLU:C	2.41	0.60
8:2:364:GLU:HG3	8:2:365:MET:N	2.16	0.60
11:5:185:GLY:O	11:5:201:PHE:HE2	1.83	0.60
11:5:366:TYR:CE2	12:6:472:PRO:HB3	2.37	0.60
7:1:7:GLY:CA	13:7:170:GLN:HG2	2.21	0.60
15:9:117:GLY:HA2	15:9:148:ILE:HD11	1.84	0.60
15:9:267:PRO:O	15:9:270:LEU:HB3	2.02	0.60
20:C:39:ALA:O	20:C:41:ASN:N	2.35	0.60
2:H:413:VAL:HG13	2:H:417:ILE:CD1	2.28	0.60
5:J:164:VAL:O	5:J:168:PRO:HG2	2.02	0.60
5:J:220:VAL:CG1	5:J:224:ILE:CD1	2.80	0.60
5:J:274:LEU:CD2	5:J:305:LEU:HD12	2.32	0.60
5:J:320:PRO:CG	5:J:354:ALA:O	2.50	0.60
5:J:195:GLY:CA	33:J:501:ADP:C8	2.85	0.60
6:K:116:LEU:N	6:K:119:ILE:CD1	2.65	0.60
6:K:167:ILE:HG13	6:K:214:MET:CE	2.32	0.60
3:L:132:TYR:CD2	3:L:146:ARG:NE	2.69	0.60
3:L:216:ARG:NE	3:L:259:GLU:OE1	2.34	0.60
4:M:229:PRO:CB	4:M:333:ASN:ND2	2.64	0.60
7:N:357:LYS:HZ2	7:N:385:PHE:HB2	1.67	0.60
7:N:45:ILE:HA	7:N:48:LEU:HD12	1.84	0.60
7:N:35:TRP:HZ3	12:S:273:LYS:HD2	1.61	0.60
12:S:338:LEU:HD12	12:S:398:LEU:HD21	1.84	0.60
15:V:257:LYS:HA	15:V:260:GLU:HG2	1.82	0.60
14:U:67:VAL:CG1	16:W:88:THR:HG23	2.32	0.60
4:O:284:PHE:CD1	4:O:285:ILE:N	2.66	0.59
7:1:399:TRP:HA	7:1:402:PHE:HB3	1.83	0.59
7:1:772:TRP:CE2	7:1:774:PRO:HD2	2.37	0.59
12:6:302:TYR:OH	12:6:397:ARG:NH1	2.30	0.59
14:8:43:TRP:HA	14:8:48:LEU:HD21	1.80	0.59
14:8:70:LEU:CD1	14:8:111:LEU:HD21	2.32	0.59
1:I:132:TYR:OH	2:H:153:LEU:CD2	2.50	0.59
5:J:127:LEU:HD22	6:K:96:VAL:CG2	2.32	0.59
6:K:268:ASP:OD1	6:K:272:THR:HG22	2.02	0.59
7:N:772:TRP:CE2	7:N:774:PRO:HD2	2.37	0.59
8:O:108:ASP:O	8:O:109:GLU:C	2.41	0.59
10:Q:163:LYS:HB2	10:Q:200:ILE:HG21	1.84	0.59
10:Q:258:LYS:HG2	10:Q:266:ASP:HB2	1.84	0.59
11:R:185:GLY:HA3	11:R:201:PHE:CZ	2.37	0.59
12:S:268:GLU:CG	12:S:269:LYS:N	2.65	0.59
15:V:267:PRO:O	15:V:270:LEU:HB3	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:X:232:ARG:HG3	25:X:232:ARG:NH1	4.37	0.59
18:Z:776:LEU:HA	18:Z:827:PRO:HA	1.83	0.59
4:0:388:THR:HG22	4:0:391:PHE:HD2	1.66	0.59
7:1:11:LEU:HD23	7:1:14:GLU:OE1	2.02	0.59
7:1:927:PRO:O	7:1:928:VAL:HG12	2.01	0.59
9:3:154:GLU:HB2	9:3:158:ASP:HB3	1.84	0.59
10:4:370:LEU:HG	11:5:233:ARG:CD	2.31	0.59
13:7:175:TYR:CE1	13:7:188:MET:HB2	2.37	0.59
14:8:25:ARG:NH1	15:9:104:ARG:HD3	2.17	0.59
19:B:171:LYS:HG3	19:B:205:VAL:HG22	1.83	0.59
2:H:368:ILE:HD11	2:H:409:PHE:CE2	2.37	0.59
1:I:118:ASP:CB	1:I:120:HIS:CD2	2.84	0.59
1:I:184:TYR:HE1	1:I:239:VAL:N	2.00	0.59
1:I:232:LYS:CA	1:I:353:PHE:HE2	2.05	0.59
5:J:207:THR:HG22	5:J:209:CYS:H	1.67	0.59
6:K:92:PHE:CE2	6:K:124:LEU:HD23	2.37	0.59
10:Q:360:ASP:HA	10:Q:363:ARG:CB	2.31	0.59
11:R:268:TYR:OH	11:R:306:GLN:HG2	2.02	0.59
13:T:270:GLU:O	13:T:274:CYS:N	2.26	0.59
14:U:32:GLN:O	14:U:33:LYS:HB2	2.02	0.59
16:W:128:ALA:HA	16:W:131:LEU:HD12	1.84	0.59
25:X:3:ILE:HG22	25:X:3:ILE:O	2.02	0.59
18:Z:883:ALA:O	18:Z:895:GLU:HA	2.03	0.59
7:1:354:LYS:HA	7:1:357:LYS:HE3	1.84	0.59
7:1:419:ALA:CB	7:1:449:ILE:HD13	2.14	0.59
7:1:546:ARG:HD3	7:1:768:GLN:NE2	2.16	0.59
9:3:67:LEU:HA	9:3:70:VAL:CG1	2.31	0.59
11:5:366:TYR:CZ	12:6:472:PRO:HB3	2.36	0.59
13:7:224:VAL:CG2	13:7:225:TYR:H	2.05	0.59
16:AA:54:LEU:CB	16:AA:85:THR:CA	2.80	0.59
14:8:67:VAL:CG1	16:AA:88:THR:HG23	2.32	0.59
18:AC:883:ALA:O	18:AC:895:GLU:HA	2.03	0.59
2:H:166:VAL:CG2	2:H:168:GLU:O	2.50	0.59
1:I:183:THR:HG23	1:I:241:ASN:ND2	2.16	0.59
5:J:371:LEU:HD13	6:K:196:ILE:CD1	2.32	0.59
3:L:201:SER:O	3:L:204:VAL:HG22	2.02	0.59
3:L:199:VAL:HA	3:L:233:ASP:HB3	1.85	0.59
3:L:61:LEU:CD1	3:L:78:ARG:NE	2.65	0.59
7:N:11:LEU:HD23	7:N:14:GLU:OE1	2.02	0.59
8:O:274:LEU:CD2	8:O:275:LEU:N	2.62	0.59
13:T:175:TYR:CE1	13:T:188:MET:HB2	2.37	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:V:151:VAL:HG22	15:V:152:LYS:N	2.18	0.59
10:Q:410:VAL:CG2	15:V:256:ASN:HB2	2.32	0.59
16:W:9:CYS:HB3	16:W:111:ALA:HA	1.85	0.59
4:0:194:GLN:O	4:0:198:LEU:N	2.27	0.59
4:0:229:PRO:HB3	4:0:333:ASN:ND2	2.16	0.59
7:1:535:TYR:O	7:1:539:THR:OG1	2.15	0.59
9:3:161:GLU:OE1	9:3:161:GLU:N	2.35	0.59
11:5:268:TYR:OH	11:5:306:GLN:HG2	2.02	0.59
12:6:400:HIS:CG	12:6:401:ASN:N	2.71	0.59
13:7:345:GLN:O	13:7:349:ILE:HD11	2.01	0.59
14:8:88:ARG:HD3	14:8:88:ARG:O	2.02	0.59
15:9:151:VAL:HG22	15:9:152:LYS:H	1.68	0.59
8:2:70:ARG:C	16:AA:17:ARG:NH2	2.55	0.59
18:AC:509:LYS:O	18:AC:514:VAL:N	2.35	0.59
2:H:373:LEU:HD11	2:H:410:LEU:HD23	1.83	0.59
1:I:144:LEU:CG	1:I:162:VAL:HG23	2.16	0.59
5:J:159:LYS:O	5:J:163:GLU:HG3	2.03	0.59
6:K:247:VAL:CG1	6:K:251:PHE:CD2	2.86	0.59
6:K:360:LEU:O	6:K:364:VAL:HG23	2.02	0.59
3:L:146:ARG:NH2	3:L:190:GLN:OE1	2.33	0.59
3:L:242:ARG:NH1	3:L:242:ARG:HG3	2.14	0.59
3:L:353:PHE:HA	3:L:356:ARG:CB	2.30	0.59
6:K:41:TYR:CE1	7:N:183:LEU:HD22	2.37	0.59
7:N:399:TRP:HA	7:N:402:PHE:HB3	1.83	0.59
9:P:202:THR:O	9:P:206:SER:HB3	2.02	0.59
11:R:362:LYS:HA	11:R:362:LYS:CE	2.31	0.59
13:T:215:LEU:O	13:T:216:PRO:C	2.39	0.59
16:W:169:HIS:HD2	16:W:187:PRO:HB2	1.64	0.59
18:Z:509:LYS:O	18:Z:514:VAL:N	2.35	0.59
18:Z:698:SER:O	18:Z:702:PRO:CB	2.50	0.59
4:0:382:GLU:O	4:0:386:ARG:N	2.30	0.59
7:1:122:GLU:O	7:1:123:LYS:HG3	2.02	0.59
7:1:45:ILE:HA	7:1:48:LEU:HD12	1.84	0.59
7:1:475:HIS:CE1	7:1:507:VAL:O	2.55	0.59
7:1:647:HIS:HA	7:1:650:TYR:HB3	1.84	0.59
7:1:808:PRO:HB3	7:1:811:PHE:CD1	2.38	0.59
10:4:358:LYS:CG	10:4:359:ALA:N	2.64	0.59
5:J:235:PHE:CZ	5:J:280:LEU:HD21	2.37	0.59
5:J:373:GLU:CG	5:J:375:ARG:CD	2.76	0.59
6:K:299:PHE:HD1	6:K:303:VAL:HG21	1.66	0.59
6:K:411:GLU:O	6:K:412:GLN:CB	2.43	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:122:MET:HE1	3:L:218:MET:SD	2.43	0.59
3:L:61:LEU:HD13	3:L:78:ARG:CD	2.32	0.59
3:L:355:ILE:HD11	4:M:212:PHE:HA	1.83	0.59
4:M:310:MET:HE3	4:M:339:ASP:HB2	1.84	0.59
4:M:397:LYS:O	4:M:401:VAL:N	2.26	0.59
7:N:56:SER:O	7:N:59:PHE:N	2.25	0.59
10:Q:28:HIS:O	10:Q:32:LYS:N	2.35	0.59
11:R:187:TYR:O	11:R:190:ALA:N	2.35	0.59
11:R:225:TYR:CE1	11:R:256:VAL:CB	2.82	0.59
13:T:167:TYR:O	13:T:171:LEU:N	2.36	0.59
13:T:284:PHE:N	13:T:313:ASN:O	2.35	0.59
14:U:25:ARG:NH1	15:V:104:ARG:HD3	2.17	0.59
15:V:151:VAL:HG22	15:V:152:LYS:H	1.68	0.59
8:O:70:ARG:C	16:W:17:ARG:NH2	2.55	0.59
16:W:173:VAL:HG11	25:X:232:ARG:HG3	238.86	0.59
7:1:229:VAL:O	7:1:233:LEU:N	2.26	0.59
7:1:357:LYS:NZ	7:1:385:PHE:HB2	2.18	0.59
10:4:410:VAL:CG2	15:9:256:ASN:HB2	2.32	0.59
1:I:223:ILE:HD12	1:I:347:ILE:CG2	2.32	0.59
1:I:356:PRO:HB3	1:I:361:LYS:CG	2.27	0.59
1:I:414:VAL:CG1	1:I:418:ASP:CB	2.81	0.59
5:J:298:ILE:H	5:J:298:ILE:HD12	1.67	0.59
6:K:95:ALA:HB1	6:K:100:THR:O	2.01	0.59
6:K:109:SER:CB	6:K:111:TYR:CE2	2.84	0.59
6:K:214:MET:HG3	33:K:501:ADP:H3'	1.84	0.59
6:K:355:SER:OG	6:K:358:VAL:HG23	2.02	0.59
3:L:362:VAL:HG12	3:L:363:VAL:N	2.18	0.59
3:L:369:LYS:O	3:L:373:LYS:HB2	2.01	0.59
4:M:231:THR:C	33:M:501:ADP:C8	2.76	0.59
8:O:28:LEU:O	8:O:32:LYS:N	2.27	0.59
10:Q:10:GLN:O	10:Q:14:SER:N	2.29	0.59
10:Q:225:TRP:CZ2	10:Q:322:HIS:NE2	2.67	0.59
14:U:72:HIS:HE1	14:U:111:LEU:HD11	0.75	0.59
4:0:249:LEU:HG	4:0:283:ILE:HG12	1.81	0.59
7:1:110:LYS:O	7:1:114:GLU:N	2.20	0.59
7:1:531:ASP:O	7:1:535:TYR:N	2.29	0.59
10:4:222:GLU:CG	10:4:225:TRP:HH2	2.16	0.59
10:4:2:ALA:HB2	10:4:34:ASP:N	2.16	0.59
12:6:333:ILE:HG21	12:6:360:TYR:HB3	1.85	0.59
13:7:284:PHE:N	13:7:313:ASN:O	2.35	0.59
1:I:268:ARG:HH22	2:H:244:GLU:HA	1.67	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:K:122:GLU:HB3	15:V:278:GLN:HB3	1.83	0.59
3:L:155:ASN:H	3:L:156:PRO:HD3	1.68	0.59
3:L:304:PRO:C	3:L:308:ALA:HB3	2.22	0.59
3:L:322:LYS:HZ3	3:L:326:ILE:HD12	1.68	0.59
4:M:295:ARG:HD3	4:M:339:ASP:OD2	1.94	0.59
12:S:348:PHE:CD2	12:S:361:PHE:CB	2.85	0.59
7:1:717:ILE:HA	7:1:727:LYS:HE3	1.85	0.59
9:3:449:GLU:OE1	14:8:211:TYR:CE1	2.56	0.59
2:H:142:VAL:O	2:H:143:ASP:C	2.41	0.59
2:H:346:PRO:CB	2:H:351:ARG:HG2	2.31	0.59
1:I:390:LEU:CD1	1:I:395:ILE:HG12	2.33	0.59
5:J:287:LYS:O	5:J:288:ASN:CB	2.50	0.59
5:J:46:GLN:HG2	6:K:61:ILE:CG2	2.32	0.59
6:K:246:MET:O	6:K:249:ASP:HB2	2.03	0.59
7:N:122:GLU:O	7:N:123:LYS:HG3	2.02	0.59
9:P:301:LYS:CG	9:P:324:TYR:CE1	2.86	0.59
14:U:88:ARG:HD3	14:U:88:ARG:O	2.02	0.59
14:U:69:PHE:HE1	16:W:60:VAL:HG21	1.67	0.59
7:1:546:ARG:HD3	7:1:768:GLN:HE22	1.68	0.59
9:3:301:LYS:CG	9:3:324:TYR:CE1	2.86	0.59
9:3:374:THR:HG22	9:3:375:MET:N	2.11	0.59
10:4:92:LEU:O	10:4:96:PHE:HB3	2.03	0.59
11:5:185:GLY:HA3	11:5:201:PHE:CZ	2.37	0.59
12:6:338:LEU:HD12	12:6:398:LEU:HD21	1.84	0.59
16:AA:164:ASP:O	16:AA:168:SER:N	2.36	0.59
18:AC:698:SER:O	18:AC:702:PRO:CB	2.50	0.59
19:B:203:SER:O	19:B:207:SER:CA	2.51	0.59
19:B:191:PHE:HE1	19:B:219:VAL:HG21	1.68	0.59
1:I:394:ASP:HB3	1:I:427:LEU:HD21	1.85	0.59
6:K:394:VAL:HG11	6:K:398:ASP:CB	2.25	0.59
3:L:205:ASP:HB3	3:L:210:GLU:HG2	1.82	0.59
3:L:259:GLU:O	3:L:263:GLN:HG3	2.02	0.59
3:L:300:HIS:HD2	3:L:301:ILE:N	2.00	0.59
3:L:362:VAL:HG12	3:L:363:VAL:H	1.67	0.59
3:L:65:THR:H	3:L:68:LYS:HB2	1.68	0.59
3:L:50:LEU:HD22	4:M:82:VAL:HG11	1.84	0.59
7:N:546:ARG:HD3	7:N:768:GLN:HE22	1.68	0.59
10:Q:250:SER:HA	10:Q:253:TYR:HD2	1.68	0.59
7:N:35:TRP:CH2	12:S:273:LYS:NZ	2.71	0.59
12:S:487:HIS:ND1	12:S:487:HIS:O	2.35	0.59
4:0:253:GLY:O	4:0:291:ILE:HG23	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:0:402:GLU:CD	4:0:426:GLU:OE1	2.41	0.59
7:1:119:PRO:C	7:1:120:GLU:HG2	2.23	0.59
7:1:180:SER:O	7:1:184:CYS:N	2.30	0.59
7:1:494:TYR:CE2	7:1:498:LYS:HD2	2.38	0.59
7:1:28:ASN:O	7:1:66:LYS:NZ	2.36	0.59
10:4:361:VAL:O	10:4:364:LYS:N	2.36	0.59
11:5:168:ILE:HG21	11:5:177:ARG:HG2	1.85	0.59
11:5:260:LEU:C	11:5:260:LEU:HD22	2.23	0.59
12:6:477:HIS:C	13:7:342:TYR:OH	2.41	0.59
8:2:356:TRP:CZ3	14:8:205:LEU:HD21	2.38	0.59
1:I:113:GLU:O	1:I:146:PRO:HB3	2.03	0.59
1:I:187:ILE:HD11	1:I:194:ILE:HD12	1.84	0.59
1:I:407:LEU:CD1	5:J:175:PHE:CZ	2.86	0.59
5:J:207:THR:CG2	5:J:209:CYS:CB	2.81	0.59
6:K:70:LYS:HA	6:K:73:LEU:HD12	1.85	0.59
3:L:205:ASP:O	3:L:206:LYS:HB3	2.02	0.59
7:N:494:TYR:CE2	7:N:498:LYS:HD2	2.38	0.59
7:N:808:PRO:HB3	7:N:811:PHE:CD1	2.38	0.59
8:O:35:HIS:CG	16:W:14:GLU:CD	2.77	0.59
9:P:161:GLU:N	9:P:161:GLU:OE1	2.35	0.59
10:Q:180:LEU:O	10:Q:181:SER:HB2	2.03	0.59
10:Q:222:GLU:CG	10:Q:225:TRP:HH2	2.16	0.59
12:S:400:HIS:CG	12:S:401:ASN:N	2.71	0.59
15:V:98:MET:HE2	15:V:98:MET:HA	1.85	0.59
18:Z:661:ALA:HB2	18:Z:693:ALA:HB1	1.85	0.59
4:0:191:LEU:HD13	4:0:236:LEU:HD11	1.85	0.58
4:0:310:MET:HE3	4:0:339:ASP:HB2	1.85	0.58
7:1:35:TRP:CH2	12:6:273:LYS:NZ	2.71	0.58
8:2:139:GLU:CB	8:2:155:PHE:CZ	2.86	0.58
10:4:202:CYS:CB	10:4:203:PRO:CA	2.78	0.58
10:4:252:LYS:HG2	10:4:287:LEU:HD11	1.85	0.58
13:7:254:GLU:CG	13:7:255:SER:N	2.65	0.58
14:8:79:TYR:CE2	14:8:91:ILE:HB	2.38	0.58
15:9:151:VAL:HG22	15:9:152:LYS:N	2.18	0.58
2:H:100:LYS:O	2:H:114:ASN:ND2	2.36	0.58
2:H:99:THR:OG1	2:H:140:VAL:HG23	2.03	0.58
2:H:215:PHE:HB2	2:H:324:PRO:HG3	1.83	0.58
5:J:228:ALA:CB	5:J:233:GLU:CD	2.71	0.58
5:J:127:LEU:CD1	6:K:102:ILE:HD11	2.31	0.58
6:K:133:HIS:O	6:K:137:ASN:HA	2.03	0.58
6:K:210:CYS:HG	6:K:335:LEU:CA	2.15	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:K:267:ILE:HG12	6:K:311:THR:CG2	2.33	0.58
3:L:172:LEU:CD1	3:L:180:LYS:HA	2.33	0.58
4:M:253:GLY:O	4:M:291:ILE:HG23	2.02	0.58
4:M:394:ALA:O	4:M:397:LYS:HB3	2.03	0.58
7:N:354:LYS:HA	7:N:357:LYS:HE3	1.84	0.58
7:N:437:TYR:CD1	7:N:472:ILE:CG1	2.86	0.58
7:N:475:HIS:CE1	7:N:507:VAL:O	2.55	0.58
10:Q:299:LEU:HD11	10:Q:331:LEU:HA	1.85	0.58
12:S:231:LEU:O	12:S:250:LEU:CD2	2.48	0.58
25:X:227:VAL:O	25:X:232:ARG:NH1	2.36	0.58
4:0:394:ALA:O	4:0:397:LYS:HB3	2.03	0.58
7:1:549:ALA:O	7:1:553:ALA:N	2.32	0.58
7:1:791:LEU:O	7:1:798:PRO:HD2	2.04	0.58
8:2:216:LEU:HD12	8:2:217:LEU:N	2.18	0.58
9:3:202:THR:O	9:3:206:SER:HB3	2.02	0.58
9:3:231:ILE:CG1	9:3:247:TYR:HH	2.14	0.58
2:H:204:LEU:CD2	2:H:206:ILE:HG21	2.32	0.58
2:H:209:PRO:HG2	2:H:339:ARG:CG	2.25	0.58
1:I:173:VAL:HG11	5:J:232:ARG:HG3	1.85	0.58
5:J:232:ARG:HE	5:J:279:GLN:CD	2.06	0.58
6:K:88:VAL:O	6:K:88:VAL:HG23	2.03	0.58
3:L:188:ALA:O	3:L:192:ASP:OD1	2.21	0.58
3:L:384:LEU:HD23	4:M:340:PRO:HB2	1.84	0.58
7:N:357:LYS:NZ	7:N:385:PHE:HB2	2.18	0.58
7:N:28:ASN:O	7:N:66:LYS:NZ	2.36	0.58
7:N:803:LYS:H	7:N:879:ASP:CG	2.06	0.58
11:R:260:LEU:HD22	11:R:260:LEU:C	2.23	0.58
11:R:268:TYR:CE2	11:R:307:LEU:HB2	2.33	0.58
25:X:87:LEU:HD12	25:X:133:CYS:SG	2.42	0.58
8:2:28:LEU:O	8:2:32:LYS:N	2.27	0.58
10:4:130:GLU:OE1	10:4:133:LEU:HD23	2.04	0.58
10:4:218:HIS:CB	10:4:228:ALA:HB2	2.34	0.58
10:4:245:PRO:HD2	10:4:246:LYS:H	1.66	0.58
12:6:463:MET:O	12:6:464:ILE:C	2.39	0.58
1:I:107:MET:CE	1:I:151:LEU:HD13	2.33	0.58
1:I:204:PRO:HG3	1:I:211:TYR:CZ	2.38	0.58
6:K:190:LEU:HB3	6:K:194:ILE:CD1	2.33	0.58
6:K:388:ARG:HG3	6:K:388:ARG:HH11	1.67	0.58
6:K:403:TYR:CA	6:K:407:ILE:HD13	2.34	0.58
3:L:238:ILE:O	3:L:238:ILE:HD12	2.04	0.58
3:L:211:SER:HB3	3:L:256:THR:CG2	2.33	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:352:MET:O	3:L:356:ARG:HB2	2.03	0.58
4:M:165:PRO:O	4:M:166:THR:HG23	2.04	0.58
4:M:359:GLU:O	4:M:362:ARG:HB2	2.03	0.58
4:M:402:GLU:CD	4:M:426:GLU:OE1	2.41	0.58
12:S:477:HIS:C	13:T:342:TYR:OH	2.41	0.58
14:U:60:GLU:HB3	14:U:65:ASP:CG	2.24	0.58
15:V:117:GLY:HA2	15:V:148:ILE:HD11	1.84	0.58
10:Q:396:THR:HG1	15:V:242:GLU:HG2	1.59	0.58
18:Z:661:ALA:CB	18:Z:693:ALA:HB1	2.33	0.58
4:O:314:LEU:CD2	4:O:342:LEU:HD21	2.32	0.58
10:4:297:ARG:HG2	10:4:333:GLN:HG3	1.86	0.58
11:5:187:TYR:O	11:5:190:ALA:N	2.35	0.58
11:5:300:ARG:CZ	11:5:333:GLU:CG	2.81	0.58
12:6:169:LEU:CD1	12:6:206:VAL:HG23	2.18	0.58
12:6:302:TYR:CZ	12:6:338:LEU:HD23	2.38	0.58
15:9:98:MET:HA	15:9:98:MET:HE3	1.85	0.58
1:I:115:ILE:HD11	1:I:146:PRO:HG3	1.85	0.58
1:I:190:LEU:O	1:I:191:ASP:HB2	2.03	0.58
5:J:134:LEU:N	5:J:237:MET:HE1	2.18	0.58
5:J:340:ARG:CB	5:J:340:ARG:HH11	2.12	0.58
6:K:56:VAL:HB	6:K:57:GLN:NE2	2.19	0.58
6:K:92:PHE:CD1	6:K:93:LEU:N	2.72	0.58
3:L:338:PHE:HE1	3:L:378:LYS:HE3	1.65	0.58
8:O:109:GLU:CG	8:O:110:ALA:N	2.66	0.58
11:R:249:VAL:O	11:R:252:SER:OG	2.15	0.58
12:S:416:ARG:HA	12:S:458:VAL:O	2.04	0.58
12:S:472:PRO:HD2	12:S:473:GLN:N	2.12	0.58
15:V:61:PHE:CE2	15:V:139:ARG:HB2	2.37	0.58
16:W:54:LEU:CB	16:W:85:THR:CA	2.80	0.58
25:X:50:GLU:OE2	25:X:201:HIS:ND1	2.36	0.58
18:Z:730:GLY:O	18:Z:734:SER:CB	2.51	0.58
4:O:435:LEU:HD23	4:O:438:TYR:CD1	2.38	0.58
8:2:284:ARG:NH1	8:2:291:LEU:HD21	2.15	0.58
10:4:183:LEU:CD1	10:4:220:ALA:HB1	2.10	0.58
11:5:105:MET:O	11:5:109:GLU:CB	2.51	0.58
14:8:252:LYS:HA	14:8:252:LYS:HE3	1.84	0.58
14:8:32:GLN:O	14:8:33:LYS:HB2	2.02	0.58
15:9:267:PRO:HD2	15:9:268:GLU:N	2.12	0.58
18:AC:730:GLY:O	18:AC:734:SER:CB	2.51	0.58
2:H:220:THR:HG21	2:H:343:PHE:O	2.04	0.58
1:I:316:LEU:HD21	1:I:327:VAL:HG11	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:J:69:GLN:HB3	5:J:118:ASN:OD1	2.03	0.58
6:K:267:ILE:CG1	6:K:311:THR:HG21	2.33	0.58
6:K:96:VAL:O	6:K:97:ASP:HB3	2.03	0.58
3:L:99:ALA:N	3:L:109:ARG:O	2.34	0.58
3:L:122:MET:HE2	3:L:218:MET:CG	2.34	0.58
4:M:188:ILE:CG2	4:M:189:GLY:H	2.12	0.58
4:M:423:GLY:O	4:M:427:VAL:N	2.23	0.58
7:N:535:TYR:O	7:N:539:THR:N	2.32	0.58
7:N:762:GLY:HA2	7:N:778:PHE:HB3	1.86	0.58
10:Q:194:ARG:NH1	10:Q:214:SER:HB3	2.18	0.58
10:Q:232:PHE:CD1	10:Q:253:TYR:HB2	2.39	0.58
10:Q:252:LYS:HG2	10:Q:287:LEU:HD11	1.85	0.58
11:R:366:TYR:HE1	11:R:370:ILE:HG13	1.67	0.58
8:O:356:TRP:CZ3	14:U:205:LEU:HD21	2.38	0.58
16:W:24:THR:H	16:W:27:GLN:HB2	1.68	0.58
7:1:482:GLY:HA2	7:1:485:ALA:HB3	1.86	0.58
14:8:177:ARG:HG3	14:8:178:ASP:N	2.19	0.58
16:AA:9:CYS:HB3	16:AA:111:ALA:HA	1.85	0.58
18:AC:484:GLY:O	18:AC:488:ALA:N	2.31	0.58
1:I:232:LYS:HZ1	1:I:332:ASN:HD22	1.47	0.58
5:J:147:THR:CG2	5:J:150:MET:HE2	2.32	0.58
5:J:383:PHE:O	5:J:387:VAL:HG23	2.04	0.58
5:J:55:LYS:O	5:J:59:LEU:N	2.36	0.58
6:K:348:ILE:HB	6:K:379:CYS:SG	2.43	0.58
6:K:54:LEU:O	6:K:58:GLU:N	2.33	0.58
4:M:382:GLU:O	4:M:386:ARG:N	2.30	0.58
4:M:435:LEU:HD23	4:M:438:TYR:CD1	2.38	0.58
7:N:164:GLU:O	7:N:165:LYS:HG3	2.04	0.58
7:N:717:ILE:HA	7:N:727:LYS:HE3	1.85	0.58
7:N:791:LEU:O	7:N:798:PRO:HD2	2.04	0.58
8:O:216:LEU:HD12	8:O:217:LEU:N	2.18	0.58
9:P:453:HIS:O	9:P:454:ASN:HB2	2.04	0.58
12:S:348:PHE:CD2	12:S:361:PHE:HB2	2.38	0.58
14:U:176:LEU:HD21	15:V:214:GLN:HA	1.85	0.58
4:0:90:VAL:HG12	4:0:164:LEU:CD1	2.32	0.58
4:0:165:PRO:O	4:0:166:THR:HG23	2.04	0.58
4:0:295:ARG:HD3	4:0:339:ASP:OD2	1.94	0.58
7:1:902:PRO:HD3	7:1:914:LEU:HD12	1.85	0.58
8:2:109:GLU:CG	8:2:110:ALA:N	2.66	0.58
8:2:360:VAL:O	8:2:361:LYS:C	2.41	0.58
9:3:148:THR:O	9:3:152:ILE:HB	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:5:268:TYR:CE2	11:5:307:LEU:HB2	2.33	0.58
14:8:12:HIS:HD2	14:8:51:SER:CA	2.17	0.58
2:H:99:THR:HB	2:H:113:ILE:HG21	1.85	0.58
2:H:99:THR:HG23	2:H:142:VAL:HG23	1.83	0.58
2:H:191:VAL:HG13	2:H:271:LEU:CD2	2.29	0.58
1:I:119:ASN:O	1:I:134:SER:HA	2.03	0.58
1:I:250:VAL:CG2	1:I:270:LEU:CD1	2.64	0.58
5:J:162:LYS:CE	5:J:166:GLU:OE1	2.50	0.58
5:J:339:THR:HA	11:R:207:THR:HG22	1.86	0.58
6:K:175:GLN:HE21	6:K:179:GLU:CD	2.07	0.58
6:K:230:VAL:HG11	6:K:235:PHE:HE1	1.68	0.58
3:L:282:PRO:HD2	3:L:386:TYR:O	2.04	0.58
4:M:137:ILE:HG22	4:M:140:VAL:CG2	2.25	0.58
4:M:223:VAL:CG1	4:M:224:LEU:N	2.67	0.58
4:M:388:THR:HG22	4:M:391:PHE:HD2	1.66	0.58
7:N:325:MET:O	7:N:329:LEU:HG	2.04	0.58
7:N:482:GLY:HA2	7:N:485:ALA:HB3	1.86	0.58
9:P:251:TYR:HA	9:P:256:ILE:HD11	1.85	0.58
11:R:105:MET:O	11:R:109:GLU:CB	2.51	0.58
11:R:237:ARG:CB	11:R:264:TYR:OH	2.52	0.58
11:R:366:TYR:OH	12:S:472:PRO:HA	2.04	0.58
15:V:211:GLU:O	15:V:215:LYS:HG3	2.04	0.58
16:W:124:LEU:HD11	16:W:156:PHE:HB2	1.85	0.58
16:W:164:ASP:O	16:W:168:SER:N	2.36	0.58
4:O:272:PHE:HZ	4:O:317:LEU:HD13	1.67	0.58
4:O:402:GLU:HA	4:O:405:MET:HE3	1.83	0.58
7:1:561:GLU:N	7:1:561:GLU:OE1	2.35	0.58
10:4:163:LYS:HB2	10:4:200:ILE:HG21	1.84	0.58
10:4:258:LYS:HG2	10:4:266:ASP:HB2	1.84	0.58
11:5:237:ARG:CB	11:5:264:TYR:OH	2.52	0.58
16:AA:107:MET:HB2	16:AA:136:VAL:HA	1.86	0.58
19:B:49:VAL:HG22	19:B:219:VAL:HG23	1.86	0.58
23:F:146:VAL:HG11	23:F:222:PRO:HA	1.85	0.58
2:H:347:ASP:CG	2:H:348:LEU:H	2.07	0.58
1:I:207:HIS:O	1:I:210:TYR:CE1	2.57	0.58
1:I:200:SER:HA	1:I:219:PRO:HG3	1.83	0.58
5:J:138:MET:CE	5:J:143:VAL:CG2	2.81	0.58
5:J:148:TYR:CD2	5:J:206:HIS:CD2	2.90	0.58
5:J:72:TYR:CE2	5:J:121:TYR:CZ	2.88	0.58
6:K:194:ILE:HB	6:K:196:ILE:HD11	1.85	0.58
6:K:345:PHE:CB	6:K:360:LEU:HD23	2.34	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:K:92:PHE:O	6:K:127:ASN:CG	2.41	0.58
3:L:52:SER:C	3:L:53:VAL:HG23	2.22	0.58
4:M:433:ALA:O	4:M:434:ASN:HB2	2.04	0.58
7:N:243:LEU:O	7:N:247:GLN:N	2.29	0.58
7:N:368:ALA:HB2	7:N:728:PHE:CD2	2.39	0.58
7:N:549:ALA:O	7:N:553:ALA:N	2.32	0.58
7:N:609:ASP:OD1	7:N:610:VAL:N	2.37	0.58
8:O:139:GLU:CB	8:O:155:PHE:CZ	2.86	0.58
9:P:205:ILE:O	9:P:208:LYS:NZ	2.36	0.58
10:Q:130:GLU:OE1	10:Q:133:LEU:HD23	2.04	0.58
13:T:330:ILE:HG23	13:T:334:GLU:CG	2.34	0.58
16:W:107:MET:HB2	16:W:136:VAL:HA	1.86	0.58
4:O:299:GLU:O	4:O:300:LYS:CB	2.51	0.58
7:1:325:MET:O	7:1:329:LEU:HG	2.04	0.58
7:1:353:LEU:HD22	7:1:376:MET:SD	2.44	0.58
11:5:117:LYS:HD2	11:5:151:TYR:CD2	2.38	0.58
11:5:225:TYR:CZ	11:5:278:VAL:HG13	2.31	0.58
24:G:165:SER:OG	24:G:169:ARG:NH2	2.36	0.58
2:H:300:LEU:HA	2:H:303:ILE:HB	1.86	0.58
5:J:247:PHE:HD1	5:J:292:ILE:CG2	2.12	0.58
3:L:322:LYS:CD	3:L:326:ILE:CD1	2.78	0.58
8:O:34:TRP:CB	16:W:17:ARG:NH1	2.59	0.58
10:Q:130:GLU:OE1	10:Q:149:LEU:HD11	2.04	0.58
10:Q:203:PRO:HB2	10:Q:204:PRO:CD	2.25	0.58
10:Q:222:GLU:CD	10:Q:225:TRP:HH2	2.07	0.58
11:R:21:GLN:HG3	11:R:286:TRP:CE3	2.35	0.58
11:R:300:ARG:CZ	11:R:333:GLU:CG	2.81	0.58
13:T:303:ALA:HB1	13:T:308:TRP:HB2	1.86	0.58
16:W:44:ASN:N	16:W:47:ASN:OD1	2.35	0.58
4:O:223:VAL:CG1	4:O:224:LEU:N	2.67	0.58
7:1:437:TYR:CD1	7:1:472:ILE:CG1	2.86	0.58
7:1:609:ASP:OD1	7:1:610:VAL:N	2.37	0.58
7:1:368:ALA:HB2	7:1:728:PHE:CD2	2.39	0.58
9:3:166:LEU:HD21	9:3:192:LEU:CD1	2.34	0.58
10:4:251:LEU:HD11	10:4:276:ALA:HB2	1.82	0.58
10:4:55:SER:HA	10:4:58:ALA:HB3	1.85	0.58
12:6:416:ARG:HA	12:6:458:VAL:O	2.04	0.58
8:2:35:HIS:CG	16:AA:14:GLU:CD	2.77	0.58
21:D:11:ILE:HG12	22:E:7:ILE:HG23	1.85	0.58
2:H:188:ARG:HD2	2:H:192:GLU:CD	2.23	0.58
2:H:190:VAL:HG22	2:H:209:PRO:HB2	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:287:ILE:HD12	1:I:288:ASP:H	1.69	0.58
1:I:342:ILE:O	1:I:343:ARG:O	2.21	0.58
4:M:299:GLU:O	4:M:300:LYS:CB	2.51	0.58
4:M:307:GLN:O	4:M:310:MET:HB3	2.04	0.58
4:M:375:VAL:CG1	4:M:376:SER:H	2.17	0.58
4:M:88:TYR:OH	4:M:161:LEU:CB	2.52	0.58
9:P:436:MET:SD	15:V:225:TRP:HZ3	2.27	0.58
9:P:449:GLU:OE1	14:U:211:TYR:CE1	2.56	0.58
9:P:67:LEU:O	9:P:71:VAL:HG13	2.04	0.58
10:Q:183:LEU:CD1	10:Q:220:ALA:HB3	2.30	0.58
10:Q:361:VAL:O	10:Q:364:LYS:N	2.36	0.58
10:Q:370:LEU:HD21	11:R:306:GLN:HE21	1.69	0.58
11:R:117:LYS:HD2	11:R:151:TYR:CD2	2.38	0.58
11:R:197:ALA:HB1	11:R:201:PHE:HD2	1.69	0.58
12:S:302:TYR:CZ	12:S:338:LEU:HD23	2.38	0.58
4:0:307:GLN:O	4:0:310:MET:HB3	2.04	0.57
7:1:171:ASN:O	7:1:172:ASP:CG	2.43	0.57
7:1:234:GLU:O	7:1:238:LYS:N	2.27	0.57
8:2:248:PHE:CD2	8:2:272:ILE:CD1	2.87	0.57
13:7:303:ALA:HB1	13:7:308:TRP:HB2	1.86	0.57
14:8:139:ILE:CG2	14:8:140:SER:H	2.17	0.57
2:H:424:SER:C	2:H:426:THR:H	2.08	0.57
1:I:365:PHE:CE2	1:I:395:ILE:HG23	2.39	0.57
5:J:301:LEU:HD11	5:J:306:LEU:HD11	1.85	0.57
5:J:329:LEU:HD12	5:J:329:LEU:O	2.04	0.57
6:K:345:PHE:HB3	6:K:360:LEU:HD23	1.86	0.57
6:K:93:LEU:HD11	6:K:94:GLU:OE1	2.04	0.57
3:L:326:ILE:HG22	3:L:328:TYR:CD2	2.38	0.57
7:N:119:PRO:C	7:N:120:GLU:HG2	2.23	0.57
7:N:171:ASN:O	7:N:172:ASP:CG	2.43	0.57
7:N:353:LEU:HD22	7:N:376:MET:SD	2.44	0.57
7:N:623:GLY:HA2	7:N:626:LEU:HB2	1.86	0.57
10:Q:148:HIS:HE1	10:Q:152:GLN:NE2	2.01	0.57
11:R:128:TYR:HA	11:R:131:THR:HG23	1.83	0.57
14:U:23:PHE:CG	14:U:126:VAL:HG21	2.36	0.57
4:0:188:ILE:CG2	4:0:189:GLY:H	2.12	0.57
4:0:183:GLU:CD	4:0:235:LEU:HD22	2.25	0.57
4:0:435:LEU:CD2	4:0:438:TYR:CZ	2.80	0.57
9:3:251:TYR:HA	9:3:256:ILE:HD11	1.85	0.57
10:4:232:PHE:CD1	10:4:253:TYR:HB2	2.39	0.57
10:4:250:SER:HA	10:4:253:TYR:HD2	1.68	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:5:228:MET:CE	11:5:263:LEU:CD2	2.79	0.57
11:5:22:LEU:HA	11:5:25:LEU:HD12	1.86	0.57
2:H:196:LEU:O	2:H:198:PRO:CD	2.49	0.57
1:I:203:LEU:HB3	1:I:204:PRO:CD	2.30	0.57
5:J:321:ASN:O	5:J:325:ARG:CG	2.46	0.57
6:K:167:ILE:CG1	6:K:214:MET:CE	2.82	0.57
6:K:257:ASN:O	6:K:258:ALA:HB2	2.05	0.57
6:K:336:PRO:HA	6:K:340:GLN:OE1	2.04	0.57
6:K:345:PHE:CE1	6:K:375:ILE:CG2	2.87	0.57
3:L:172:LEU:HD12	3:L:180:LYS:HB3	1.87	0.57
3:L:200:SER:CB	3:L:234:GLU:O	2.48	0.57
3:L:253:ILE:HG13	4:M:308:ARG:CZ	2.34	0.57
4:M:215:LEU:O	4:M:215:LEU:HD23	2.05	0.57
9:P:148:THR:O	9:P:152:ILE:HB	2.03	0.57
10:Q:19:ASP:HA	10:Q:22:ALA:HB3	1.86	0.57
10:Q:92:LEU:O	10:Q:96:PHE:HB3	2.03	0.57
11:R:111:LEU:O	11:R:115:GLY:N	2.37	0.57
11:R:316:LEU:O	11:R:319:MET:N	2.37	0.57
8:2:274:LEU:CD2	8:2:275:LEU:N	2.62	0.57
8:2:343:LEU:HD21	14:8:216:ALA:HB1	1.86	0.57
9:3:173:THR:OG1	9:3:176:SER:OG	2.21	0.57
9:3:438:LEU:O	9:3:442:THR:HG22	2.04	0.57
10:4:180:LEU:O	10:4:181:SER:HB2	2.03	0.57
11:5:249:VAL:O	11:5:252:SER:OG	2.15	0.57
16:AA:44:ASN:N	16:AA:47:ASN:OD1	2.35	0.57
2:H:130:ALA:HB1	2:H:131:PRO:HD2	1.86	0.57
2:H:181:LYS:O	2:H:185:GLU:HB2	2.04	0.57
1:I:247:PHE:CE1	1:I:281:ILE:HG21	2.39	0.57
6:K:162:VAL:HB	6:K:217:LYS:HB3	1.86	0.57
6:K:71:GLU:O	6:K:74:HIS:N	2.37	0.57
3:L:363:VAL:HG22	3:L:365:GLU:N	2.16	0.57
4:M:191:LEU:HD13	4:M:236:LEU:HD11	1.85	0.57
4:M:422:GLU:CA	4:M:425:LEU:HB2	2.27	0.57
7:N:418:GLU:O	7:N:422:LEU:N	2.30	0.57
7:N:480:GLY:O	7:N:483:LEU:HB3	2.04	0.57
7:N:645:ASN:HD21	7:N:647:HIS:HB2	1.68	0.57
9:P:166:LEU:HD21	9:P:192:LEU:CD1	2.34	0.57
11:R:168:ILE:HG21	11:R:177:ARG:HG2	1.85	0.57
11:R:227:SER:HB2	11:R:231:LEU:CD1	2.33	0.57
12:S:333:ILE:HG21	12:S:360:TYR:HB3	1.85	0.57
4:0:88:TYR:OH	4:0:161:LEU:CB	2.52	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:0:215:LEU:HD23	4:0:215:LEU:O	2.05	0.57
4:0:260:PHE:O	4:0:262:GLY:N	2.37	0.57
4:0:422:GLU:CA	4:0:425:LEU:HB2	2.27	0.57
4:0:231:THR:C	33:0:501:ADP:C8	2.76	0.57
7:1:434:GLY:O	7:1:435:SER:HB3	2.05	0.57
7:1:762:GLY:HA2	7:1:778:PHE:HB3	1.86	0.57
10:4:299:LEU:HD11	10:4:331:LEU:HA	1.85	0.57
10:4:370:LEU:HD21	11:5:306:GLN:HE21	1.69	0.57
11:5:366:TYR:OH	12:6:472:PRO:HA	2.04	0.57
13:7:167:TYR:O	13:7:171:LEU:N	2.36	0.57
14:8:201:LEU:HD21	15:9:309:PHE:CE1	2.40	0.57
14:8:60:GLU:HB3	14:8:65:ASP:CG	2.24	0.57
18:AC:661:ALA:HB1	18:AC:693:ALA:O	2.05	0.57
20:C:132:SER:CB	20:C:162:MET:HE2	2.33	0.57
2:H:144:ARG:O	2:H:147:TYR:CD1	2.58	0.57
5:J:31:LEU:N	5:J:34:ILE:HD12	2.18	0.57
5:J:85:VAL:N	5:J:97:VAL:O	2.36	0.57
6:K:403:TYR:O	6:K:407:ILE:HD12	1.99	0.57
4:M:215:LEU:HD23	4:M:217:ILE:HG23	1.86	0.57
4:M:272:PHE:HZ	4:M:317:LEU:HD13	1.67	0.57
4:M:382:GLU:HA	4:M:385:ALA:HB3	1.85	0.57
7:N:440:GLY:HA2	7:N:443:LEU:HD12	1.86	0.57
8:O:284:ARG:NH1	8:O:291:LEU:HD21	2.15	0.57
10:Q:85:ALA:O	10:Q:89:VAL:CG2	2.47	0.57
14:U:139:ILE:CG2	14:U:140:SER:H	2.17	0.57
8:O:343:LEU:HD21	14:U:216:ALA:HB1	1.86	0.57
15:V:96:LEU:HD22	15:V:100:LYS:HZ1	1.67	0.57
7:1:162:VAL:C	7:1:164:GLU:H	2.08	0.57
7:1:440:GLY:HA2	7:1:443:LEU:HD12	1.86	0.57
7:1:480:GLY:O	7:1:483:LEU:HB3	2.04	0.57
7:1:645:ASN:HD21	7:1:647:HIS:HB2	1.68	0.57
12:6:348:PHE:CD2	12:6:361:PHE:HB2	2.38	0.57
14:8:98:GLY:O	14:8:99:PRO:C	2.43	0.57
2:H:113:ILE:O	2:H:120:LYS:HA	2.04	0.57
2:H:172:VAL:CG1	2:H:224:LEU:CD2	2.67	0.57
1:I:170:LEU:HD11	1:I:269:GLU:HG3	1.87	0.57
1:I:184:TYR:CE2	1:I:202:GLU:OE1	2.58	0.57
1:I:390:LEU:CD1	1:I:395:ILE:CD1	2.83	0.57
5:J:286:THR:O	5:J:287:LYS:CB	2.50	0.57
5:J:85:VAL:HG22	5:J:99:VAL:HG13	1.85	0.57
6:K:116:LEU:N	6:K:119:ILE:HD13	2.19	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:K:228:ILE:HG22	6:K:230:VAL:HG23	1.87	0.57
6:K:372:GLY:C	6:K:375:ILE:HD12	2.23	0.57
7:N:773:PHE:O	7:N:775:LEU:N	2.36	0.57
10:Q:239:TYR:HA	10:Q:242:ILE:HG22	1.87	0.57
4:O:375:VAL:CG1	4:O:376:SER:H	2.17	0.57
4:O:379:VAL:O	4:O:379:VAL:HG12	2.04	0.57
10:4:200:ILE:HD12	10:4:201:TYR:N	2.20	0.57
10:4:239:TYR:CA	10:4:242:ILE:HG22	2.35	0.57
10:4:96:PHE:CE2	10:4:106:GLU:HG3	2.40	0.57
14:8:79:TYR:CE1	14:8:83:LYS:NZ	2.73	0.57
2:H:222:LYS:NZ	2:H:322:ASN:HD22	2.03	0.57
1:I:111:THR:HB	1:I:124:SER:HB2	1.85	0.57
1:I:231:GLY:C	1:I:353:PHE:CE2	2.78	0.57
1:I:106:PRO:HG3	5:J:121:TYR:O	2.05	0.57
5:J:167:LEU:HD21	5:J:174:LEU:HD13	1.86	0.57
5:J:137:LEU:HB2	5:J:224:ILE:HG13	1.85	0.57
6:K:191:TYR:CE1	6:K:198:PRO:HB3	2.38	0.57
3:L:195:PHE:HA	3:L:229:ILE:O	2.04	0.57
7:N:434:GLY:O	7:N:435:SER:HB3	2.05	0.57
7:N:561:GLU:OE1	7:N:561:GLU:N	2.35	0.57
7:N:637:VAL:O	7:N:641:SER:N	2.22	0.57
10:Q:397:TYR:CE2	14:U:258:VAL:HG21	2.40	0.57
13:T:341:GLU:O	13:T:345:GLN:N	2.24	0.57
13:T:89:GLN:O	13:T:92:THR:OG1	2.17	0.57
14:U:22:HIS:O	14:U:26:ILE:CG1	2.53	0.57
7:1:623:GLY:HA2	7:1:626:LEU:HB2	1.86	0.57
9:3:63:THR:CB	9:3:102:ALA:HB1	2.35	0.57
9:3:120:ILE:HA	9:3:123:ARG:CG	2.35	0.57
12:6:348:PHE:CE2	12:6:361:PHE:CA	2.79	0.57
14:8:176:LEU:HD21	15:9:214:GLN:HA	1.85	0.57
16:AA:141:ILE:HG23	16:AA:173:VAL:HG21	1.86	0.57
16:AA:24:THR:H	16:AA:27:GLN:HB2	1.68	0.57
2:H:388:VAL:HG13	2:H:412:ALA:CB	2.34	0.57
1:I:218:PRO:HB2	1:I:219:PRO:HD2	1.86	0.57
1:I:180:PRO:HG3	1:I:240:ALA:CB	2.34	0.57
5:J:147:THR:CG2	5:J:150:MET:CE	2.82	0.57
5:J:147:THR:HG23	5:J:150:MET:CE	2.34	0.57
5:J:276:LEU:O	5:J:280:LEU:HG	2.05	0.57
6:K:121:ARG:O	6:K:122:GLU:C	2.41	0.57
6:K:385:LEU:HD21	6:K:401:LYS:HG3	1.87	0.57
3:L:238:ILE:HD13	3:L:257:LEU:N	2.20	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:61:LEU:HD11	3:L:78:ARG:CD	2.26	0.57
7:N:162:VAL:C	7:N:164:GLU:H	2.08	0.57
14:U:116:CYS:SG	14:U:117:PRO:HD3	2.45	0.57
16:W:6:THR:N	16:W:48:ASN:O	2.36	0.57
18:Z:221:ILE:O	18:Z:252:ALA:HB2	2.05	0.57
7:1:541:HIS:HB2	7:1:544:ILE:HB	1.87	0.57
10:4:134:VAL:CG2	10:4:149:LEU:HD23	2.34	0.57
11:5:127:THR:O	11:5:131:THR:CG2	2.34	0.57
11:5:316:LEU:O	11:5:319:MET:N	2.37	0.57
12:6:463:MET:CB	12:6:466:ILE:HD13	2.34	0.57
14:8:116:CYS:SG	14:8:117:PRO:HD3	2.45	0.57
9:3:448:LYS:NZ	14:8:154:THR:OG1	2.37	0.57
14:8:22:HIS:O	14:8:26:ILE:CG1	2.53	0.57
16:AA:100:ARG:NE	16:AA:105:HIS:O	2.25	0.57
16:AA:124:LEU:HD11	16:AA:156:PHE:HB2	1.85	0.57
2:H:173:THR:HG22	2:H:174:TYR:N	2.20	0.57
2:H:373:LEU:HD12	2:H:413:VAL:HG21	1.85	0.57
1:I:125:THR:OG1	1:I:127:VAL:HG22	2.04	0.57
5:J:307:ARG:O	5:J:309:GLY:N	2.38	0.57
6:K:87:LEU:HD22	6:K:140:VAL:HG21	1.86	0.57
6:K:263:PHE:CE1	6:K:265:ASP:HB2	2.33	0.57
3:L:170:CYS:HB3	3:L:299:ILE:HD12	1.87	0.57
3:L:281:ARG:NH2	3:L:386:TYR:CZ	2.73	0.57
4:M:249:LEU:CD2	4:M:283:ILE:CG1	2.43	0.57
7:N:505:ASP:O	7:N:509:GLY:N	2.38	0.57
7:N:541:HIS:HB2	7:N:544:ILE:HB	1.87	0.57
9:P:438:LEU:O	9:P:442:THR:HG22	2.04	0.57
10:Q:225:TRP:HZ2	10:Q:322:HIS:CD2	2.23	0.57
16:W:141:ILE:HG23	16:W:173:VAL:HG21	1.86	0.57
7:1:5:ALA:N	7:1:37:GLU:OE1	2.37	0.57
9:3:436:MET:SD	15:9:225:TRP:HZ3	2.27	0.57
11:5:204:THR:O	11:5:207:THR:O	2.23	0.57
11:5:227:SER:HB2	11:5:231:LEU:CD1	2.33	0.57
18:AC:529:SER:N	18:AC:565:ASN:O	2.36	0.57
20:C:207:ILE:HD11	20:C:229:LEU:HD21	1.87	0.57
2:H:161:VAL:CG2	2:H:259:GLU:HB2	2.32	0.57
2:H:360:ARG:O	2:H:360:ARG:HG2	2.04	0.57
1:I:164:MET:HG2	1:I:164:MET:O	2.04	0.57
1:I:174:MET:HE3	1:I:270:LEU:HA	1.86	0.57
1:I:283:PHE:HE2	1:I:285:ASP:HB2	1.68	0.57
6:K:310:ALA:C	6:K:311:THR:HG23	2.25	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:K:370:ILE:CG2	6:K:374:ASP:HB2	2.34	0.57
6:K:57:GLN:O	6:K:61:ILE:CG1	2.39	0.57
4:M:260:PHE:O	4:M:262:GLY:N	2.37	0.57
7:N:645:ASN:HD22	7:N:648:VAL:HG23	1.69	0.57
8:O:149:THR:O	8:O:151:VAL:N	2.38	0.57
4:0:172:VAL:O	4:0:175:MET:HB2	2.05	0.57
7:1:773:PHE:O	7:1:775:LEU:N	2.36	0.57
7:1:803:LYS:H	7:1:879:ASP:CG	2.06	0.57
10:4:172:LEU:HA	10:4:175:LYS:HD2	1.85	0.57
11:5:19:ILE:HD13	11:5:50:MET:CE	2.35	0.57
2:H:223:THR:HG22	2:H:227:ARG:HD2	1.86	0.57
1:I:268:ARG:NH2	2:H:244:GLU:HA	2.20	0.57
1:I:103:ARG:HG3	1:I:136:LEU:HD12	1.86	0.57
1:I:257:GLN:HE22	1:I:266:LEU:CG	2.08	0.57
1:I:356:PRO:HB2	1:I:361:LYS:HG3	1.87	0.57
5:J:371:LEU:HD22	6:K:196:ILE:HD13	1.87	0.57
11:R:17:LEU:HD11	11:R:213:LEU:HG	1.87	0.57
11:R:22:LEU:HA	11:R:25:LEU:HD12	1.86	0.57
13:T:325:PRO:C	13:T:327:ASP:H	2.08	0.57
15:V:307:VAL:HG23	15:V:308:VAL:N	2.19	0.57
10:4:130:GLU:OE1	10:4:149:LEU:HD11	2.04	0.56
10:4:19:ASP:HA	10:4:22:ALA:HB3	1.86	0.56
10:4:397:TYR:CE2	14:8:258:VAL:HG21	2.40	0.56
11:5:128:TYR:HA	11:5:131:THR:HG23	1.83	0.56
11:5:191:ILE:C	11:5:291:HIS:HE1	2.09	0.56
11:5:234:PRO:HD2	11:5:235:ASP:N	2.14	0.56
13:7:330:ILE:HG23	13:7:334:GLU:CG	2.34	0.56
15:9:89:PRO:HD2	15:9:90:VAL:N	2.18	0.56
16:AA:147:GLU:HB2	16:AA:149:ASN:ND2	2.20	0.56
22:E:119:THR:O	23:F:135:ARG:NH1	2.38	0.56
2:H:161:VAL:HB	2:H:263:MET:SD	2.45	0.56
2:H:245:LEU:HD11	2:H:280:ILE:CD1	2.22	0.56
1:I:361:LYS:HA	1:I:364:ILE:HD12	1.87	0.56
6:K:360:LEU:CD1	6:K:363:TYR:CD2	2.83	0.56
3:L:83:CYS:HA	3:L:107:ILE:HD12	1.87	0.56
3:L:219:PHE:O	3:L:223:ARG:N	2.33	0.56
4:M:183:GLU:CD	4:M:235:LEU:HD22	2.25	0.56
4:M:379:VAL:O	4:M:379:VAL:HG12	2.04	0.56
7:N:540:GLN:O	7:N:541:HIS:ND1	2.38	0.56
8:O:23:HIS:O	8:O:26:GLU:HB2	2.05	0.56
9:P:63:THR:CB	9:P:102:ALA:HB1	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:Q:92:LEU:O	10:Q:96:PHE:CB	2.53	0.56
11:R:204:THR:O	11:R:207:THR:O	2.23	0.56
11:R:228:MET:HE1	11:R:271:PHE:CE2	2.30	0.56
11:R:315:THR:HA	11:R:353:ILE:HD12	1.87	0.56
14:U:201:LEU:HD21	15:V:309:PHE:CE1	2.40	0.56
4:0:402:GLU:OE1	4:0:427:VAL:HG23	2.05	0.56
4:0:374:ASN:O	4:0:414:GLU:HA	2.05	0.56
4:0:433:ALA:O	4:0:434:ASN:HB2	2.04	0.56
7:1:164:GLU:O	7:1:165:LYS:HG3	2.04	0.56
7:1:3:THR:OG1	13:7:127:ASN:HA	2.05	0.56
9:3:180:LYS:CG	9:3:181:GLU:N	2.67	0.56
14:8:69:PHE:HE1	16:AA:60:VAL:HG21	1.67	0.56
1:I:390:LEU:HD11	1:I:395:ILE:CD1	2.36	0.56
5:J:118:ASN:O	5:J:121:TYR:CE1	2.58	0.56
5:J:173:GLU:O	5:J:177:ALA:HB2	2.05	0.56
6:K:185:LEU:HD22	6:K:259:PRO:HB3	1.87	0.56
6:K:345:PHE:CD1	6:K:375:ILE:CG2	2.88	0.56
6:K:65:GLN:OE1	6:K:69:LYS:NZ	2.38	0.56
2:H:124:ASP:HB2	4:M:86:LEU:HD13	1.87	0.56
10:Q:203:PRO:CB	10:Q:204:PRO:CD	2.83	0.56
10:Q:218:HIS:CB	10:Q:228:ALA:HB2	2.34	0.56
10:Q:61:GLY:O	10:Q:64:ALA:CA	2.53	0.56
12:S:235:LEU:HA	12:S:250:LEU:HD23	1.88	0.56
12:S:268:GLU:CG	12:S:269:LYS:H	2.18	0.56
14:U:177:ARG:HG3	14:U:178:ASP:N	2.19	0.56
14:U:61:ASP:CA	16:W:95:LEU:HD11	2.35	0.56
15:V:118:PHE:O	15:V:121:TRP:NE1	2.37	0.56
7:1:42:VAL:HA	7:1:45:ILE:HD12	1.86	0.56
7:1:540:GLN:O	7:1:541:HIS:ND1	2.38	0.56
7:1:24:LEU:HB3	7:1:59:PHE:CG	2.41	0.56
12:6:231:LEU:HA	12:6:250:LEU:HD11	1.88	0.56
12:6:348:PHE:CD2	12:6:361:PHE:CG	2.94	0.56
13:7:325:PRO:C	13:7:327:ASP:H	2.08	0.56
15:9:211:GLU:O	15:9:214:GLN:CG	2.54	0.56
15:9:225:TRP:HE3	15:9:226:MET:N	2.04	0.56
15:9:255:TYR:N	15:9:280:PRO:CG	2.68	0.56
2:H:300:LEU:HD23	2:H:303:ILE:HD12	1.87	0.56
6:K:210:CYS:SG	6:K:335:LEU:CA	2.91	0.56
6:K:85:ILE:HG22	6:K:86:PRO:HD3	1.87	0.56
3:L:132:TYR:HD1	3:L:133:SER:H	1.52	0.56
3:L:195:PHE:CE1	3:L:229:ILE:CG2	2.85	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:70:ILE:HG23	6:K:89:ILE:CD1	2.35	0.56
4:M:172:VAL:O	4:M:175:MET:HB2	2.05	0.56
4:M:192:ASP:HA	4:M:195:ILE:HD12	1.88	0.56
7:N:801:GLN:CB	7:N:879:ASP:H	2.18	0.56
10:Q:96:PHE:CE2	10:Q:106:GLU:HG3	2.40	0.56
10:Q:163:LYS:CB	10:Q:200:ILE:HG21	2.36	0.56
10:Q:364:LYS:O	10:Q:367:GLN:N	2.39	0.56
5:J:149:GLU:HG2	11:R:133:ALA:CB	2.34	0.56
13:T:254:GLU:CG	13:T:255:SER:N	2.65	0.56
15:V:225:TRP:HE3	15:V:226:MET:N	2.04	0.56
7:1:505:ASP:O	7:1:509:GLY:N	2.38	0.56
7:1:68:PHE:O	7:1:72:GLY:N	2.38	0.56
9:3:421:PRO:CD	9:3:422:ASN:N	2.68	0.56
10:4:118:LYS:HE2	10:4:126:ARG:NH2	2.20	0.56
10:4:92:LEU:O	10:4:96:PHE:CB	2.53	0.56
7:1:35:TRP:HZ3	12:6:273:LYS:HD2	1.61	0.56
15:9:211:GLU:O	15:9:215:LYS:HG3	2.04	0.56
18:AC:661:ALA:CB	18:AC:693:ALA:O	2.53	0.56
1:I:311:GLU:OE1	2:H:243:SER:CB	2.54	0.56
2:H:259:GLU:HA	2:H:262:GLU:HB2	1.86	0.56
1:I:112:LEU:O	1:I:147:GLY:CA	2.51	0.56
1:I:160:ILE:HG22	1:I:160:ILE:O	2.05	0.56
1:I:426:VAL:CG1	5:J:308:PRO:HB3	2.35	0.56
5:J:377:HIS:NE2	11:R:206:SER:OG	2.31	0.56
5:J:66:LEU:O	6:K:136:SER:CA	2.53	0.56
6:K:89:ILE:HG23	6:K:143:LEU:CD2	2.35	0.56
6:K:397:LYS:HA	6:K:400:GLU:HB2	1.86	0.56
3:L:115:VAL:O	3:L:119:VAL:HG23	2.05	0.56
3:L:126:ASP:CG	3:L:197:LYS:HZ2	2.04	0.56
3:L:194:ASN:HB3	3:L:228:CYS:SG	2.45	0.56
3:L:181:THR:CB	33:L:401:ADP:O2A	2.45	0.56
4:M:89:LEU:HD21	4:M:126:THR:CB	2.35	0.56
7:N:177:LEU:O	7:N:181:LEU:N	2.25	0.56
8:O:360:VAL:O	8:O:361:LYS:C	2.41	0.56
10:Q:172:LEU:HA	10:Q:175:LYS:HD2	1.85	0.56
10:Q:187:ARG:HA	10:Q:217:ILE:HD13	1.87	0.56
7:1:236:LEU:HD11	7:1:245:ALA:HB2	1.88	0.56
7:1:645:ASN:HD22	7:1:648:VAL:HG23	1.69	0.56
8:2:23:HIS:O	8:2:26:GLU:HB2	2.05	0.56
9:3:205:ILE:O	9:3:208:LYS:NZ	2.36	0.56
9:3:438:LEU:O	9:3:442:THR:HB	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:3:453:HIS:O	9:3:454:ASN:HB2	2.04	0.56
10:4:187:ARG:HA	10:4:217:ILE:HD13	1.87	0.56
10:4:171:LEU:HD21	10:4:210:LEU:CA	2.35	0.56
11:5:111:LEU:O	11:5:115:GLY:N	2.37	0.56
11:5:120:ALA:HB1	11:5:124:PHE:HE2	1.64	0.56
11:5:17:LEU:HD11	11:5:213:LEU:HG	1.87	0.56
11:5:199:GLU:O	11:5:203:ASP:HB2	2.06	0.56
11:5:363:ASN:HD22	12:6:466:ILE:HG23	1.66	0.56
13:7:330:ILE:O	13:7:330:ILE:HG22	2.05	0.56
14:8:61:ASP:CA	16:AA:95:LEU:HD11	2.35	0.56
16:AA:6:THR:N	16:AA:48:ASN:O	2.36	0.56
2:H:173:THR:HG22	2:H:174:TYR:H	1.70	0.56
2:H:346:PRO:HB2	2:H:351:ARG:CG	2.34	0.56
1:I:358:GLU:O	1:I:362:LYS:HD2	2.06	0.56
5:J:347:ILE:HD13	5:J:383:PHE:HB3	1.86	0.56
5:J:85:VAL:HG21	5:J:123:LEU:HD11	1.86	0.56
6:K:184:PRO:CB	6:K:191:TYR:CE2	2.86	0.56
6:K:211:GLY:N	33:K:501:ADP:O1A	2.37	0.56
6:K:312:ASN:HD22	6:K:313:ARG:N	2.01	0.56
6:K:47:LEU:HD22	6:K:50:GLU:OE1	2.04	0.56
3:L:99:ALA:CB	3:L:109:ARG:O	2.53	0.56
4:M:317:LEU:HD11	4:M:328:VAL:HG21	1.88	0.56
7:N:5:ALA:N	7:N:37:GLU:OE1	2.37	0.56
7:N:3:THR:OG1	13:T:127:ASN:HA	2.05	0.56
7:N:733:ALA:HA	7:N:736:ILE:HD12	1.88	0.56
10:Q:171:LEU:HD21	10:Q:210:LEU:CA	2.35	0.56
10:Q:239:TYR:CA	10:Q:242:ILE:HG22	2.35	0.56
10:Q:282:ARG:HD3	10:Q:309:TYR:HE1	1.70	0.56
15:V:64:ASP:C	15:V:139:ARG:HH12	2.08	0.56
4:0:204:LEU:HB2	4:0:205:PRO:HD3	1.87	0.56
4:0:265:ALA:CA	4:0:312:GLU:HG2	2.35	0.56
4:0:382:GLU:HA	4:0:385:ALA:HB3	1.85	0.56
4:0:407:ALA:HB1	4:0:415:LEU:HD22	1.86	0.56
4:0:427:VAL:HG12	4:0:427:VAL:O	2.06	0.56
7:1:381:THR:HG23	7:1:412:HIS:CE1	2.41	0.56
8:2:35:HIS:O	8:2:38:THR:OG1	2.20	0.56
9:3:67:LEU:O	9:3:71:VAL:HG13	2.04	0.56
10:4:84:LYS:HZ1	10:4:88:LEU:HD21	1.69	0.56
11:5:315:THR:HA	11:5:353:ILE:HD12	1.87	0.56
14:8:74:TYR:CE1	15:9:98:MET:CE	2.89	0.56
17:AB:45:ASP:O	17:AB:46:ASP:CB	2.53	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:276:GLU:O	1:I:278:ALA:N	2.39	0.56
5:J:133:PRO:O	5:J:136:SER:OG	2.12	0.56
6:K:285:VAL:O	6:K:288:ILE:HB	2.05	0.56
3:L:152:PRO:HB2	3:L:166:PRO:HB3	1.87	0.56
3:L:79:TYR:CE1	6:K:88:VAL:HG12	2.40	0.56
4:M:374:ASN:O	4:M:414:GLU:HA	2.05	0.56
9:P:154:GLU:HB2	9:P:158:ASP:HB3	1.84	0.56
9:P:180:LYS:CG	9:P:181:GLU:N	2.67	0.56
9:P:438:LEU:O	9:P:442:THR:HB	2.06	0.56
10:Q:134:VAL:CG2	10:Q:149:LEU:HD23	2.34	0.56
10:Q:185:LYS:HB3	10:Q:185:LYS:NZ	2.19	0.56
9:P:446:ILE:HD12	14:U:211:TYR:CG	2.40	0.56
14:U:215:VAL:CG1	14:U:220:LEU:CB	2.83	0.56
16:W:147:GLU:HB2	16:W:149:ASN:ND2	2.20	0.56
4:O:192:ASP:HA	4:O:195:ILE:HD12	1.88	0.56
7:1:935:ILE:CG1	7:1:939:GLU:HB3	2.36	0.56
8:2:104:VAL:O	8:2:105:LYS:HB2	2.06	0.56
9:3:153:LYS:CE	9:3:162:ALA:CB	2.84	0.56
9:3:445:LEU:HB3	14:8:226:ILE:HD11	1.88	0.56
12:6:235:LEU:HA	12:6:250:LEU:HD23	1.88	0.56
14:8:61:ASP:H	14:8:65:ASP:CG	2.09	0.56
15:9:96:LEU:HD22	15:9:100:LYS:HZ2	1.68	0.56
2:H:351:ARG:HD2	2:H:385:ILE:HD11	1.88	0.56
1:I:362:LYS:HG3	1:I:384:ILE:HD12	1.87	0.56
5:J:114:VAL:CG1	5:J:126:ILE:CG1	2.84	0.56
6:K:100:THR:HG22	6:K:101:ALA:N	2.21	0.56
6:K:53:PHE:O	6:K:57:GLN:CD	2.44	0.56
3:L:277:MET:CE	3:L:289:LEU:HD11	2.36	0.56
4:M:237:ALA:CB	4:M:284:PHE:HE2	2.13	0.56
11:R:188:CYS:HB2	11:R:197:ALA:HB2	1.87	0.56
5:J:339:THR:HA	11:R:207:THR:HG23	1.87	0.56
11:R:21:GLN:CB	11:R:286:TRP:CZ3	2.88	0.56
12:S:181:TYR:O	12:S:185:GLN:HB2	2.06	0.56
12:S:348:PHE:CD2	12:S:361:PHE:CG	2.94	0.56
8:2:149:THR:O	8:2:151:VAL:N	2.38	0.56
10:4:185:LYS:HB3	10:4:185:LYS:NZ	2.19	0.56
10:4:225:TRP:HZ2	10:4:322:HIS:CD2	2.23	0.56
10:4:239:TYR:C	10:4:247:ALA:HB2	2.26	0.56
10:4:282:ARG:HD3	10:4:309:TYR:HE1	1.70	0.56
10:4:93:LEU:O	10:4:97:LEU:HG	2.06	0.56
11:5:228:MET:HE1	11:5:263:LEU:HB2	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:5:227:SER:HB2	11:5:240:VAL:HG21	1.88	0.56
12:6:463:MET:CB	12:6:466:ILE:CD1	2.84	0.56
24:G:225:ASP:HA	24:G:229:VAL:CG2	2.36	0.56
1:I:311:GLU:OE1	2:H:243:SER:HB3	2.06	0.56
2:H:314:ASN:N	2:H:315:ILE:HD12	2.21	0.56
2:H:85:GLN:O	2:H:89:SER:N	2.23	0.56
1:I:222:VAL:HG22	1:I:349:ARG:HB2	1.87	0.56
4:M:407:ALA:HB1	4:M:415:LEU:HD22	1.86	0.56
4:M:91:SER:OG	4:M:153:VAL:HG21	2.05	0.56
7:N:24:LEU:HB3	7:N:59:PHE:CG	2.41	0.56
10:Q:202:CYS:CB	10:Q:203:PRO:CA	2.78	0.56
13:T:213:GLU:O	13:T:216:PRO:HB2	2.06	0.56
13:T:330:ILE:HG22	13:T:330:ILE:O	2.05	0.56
19:B:132:ARG:HG2	25:X:12:SER:HA	1.87	0.56
17:Y:45:ASP:O	17:Y:46:ASP:CB	2.53	0.56
7:1:515:ALA:HA	7:1:518:LEU:HD12	1.87	0.56
7:1:748:LEU:HB2	7:1:759:SER:HB3	1.88	0.56
7:1:790:GLY:HA3	7:1:798:PRO:O	2.06	0.56
10:4:155:ARG:CA	10:4:158:LYS:HG2	2.19	0.56
10:4:2:ALA:HB2	10:4:34:ASP:CB	2.35	0.56
12:6:181:TYR:O	12:6:185:GLN:HB2	2.06	0.56
12:6:453:HIS:CE1	13:7:286:GLU:CG	2.89	0.56
15:9:225:TRP:C	15:9:227:GLU:N	2.60	0.56
18:AC:126:ILE:O	18:AC:130:ALA:N	2.39	0.56
18:AC:408:LEU:HA	18:AC:443:GLY:HA2	1.88	0.56
2:H:331:LEU:O	2:H:337:LEU:HB2	2.05	0.56
1:I:120:HIS:HA	1:I:133:VAL:O	2.05	0.56
1:I:404:LEU:HD13	5:J:313:ARG:NH1	2.21	0.56
5:J:98:ASP:OD1	5:J:99:VAL:N	2.36	0.56
6:K:318:ASP:OD1	6:K:319:PRO:HD2	2.06	0.56
3:L:178:THR:O	3:L:301:ILE:CG2	2.54	0.56
4:M:204:LEU:HB2	4:M:205:PRO:HD3	1.87	0.56
4:M:268:VAL:O	4:M:272:PHE:HB2	2.06	0.56
4:M:265:ALA:CA	4:M:312:GLU:HG2	2.35	0.56
4:M:399:VAL:N	4:M:427:VAL:CG2	2.67	0.56
7:N:407:SER:HA	7:N:777:HIS:CD2	2.41	0.56
7:N:42:VAL:HA	7:N:45:ILE:HD12	1.86	0.56
9:P:63:THR:OG1	9:P:102:ALA:HB1	2.06	0.56
9:P:120:ILE:HA	9:P:123:ARG:CG	2.35	0.56
9:P:153:LYS:CE	9:P:162:ALA:CB	2.84	0.56
10:Q:118:LYS:HE2	10:Q:126:ARG:NH2	2.20	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:R:131:THR:C	11:R:132:VAL:HG23	2.26	0.56
11:R:142:PHE:CE1	11:R:180:LEU:CD2	2.83	0.56
11:R:196:GLN:O	11:R:200:LEU:HD23	2.05	0.56
11:R:227:SER:HB2	11:R:240:VAL:HG21	1.88	0.56
4:0:215:LEU:HD23	4:0:217:ILE:HG23	1.86	0.56
4:0:89:LEU:HD21	4:0:126:THR:CB	2.35	0.56
7:1:529:ILE:HG23	7:1:566:LEU:HD22	1.88	0.56
9:3:438:LEU:O	9:3:442:THR:CG2	2.54	0.56
10:4:222:GLU:CD	10:4:225:TRP:HH2	2.07	0.56
11:5:196:GLN:O	11:5:200:LEU:HD23	2.05	0.56
11:5:229:ILE:CD1	11:5:295:TYR:CE1	2.83	0.56
12:6:477:HIS:CA	13:7:342:TYR:OH	2.54	0.56
15:9:64:ASP:C	15:9:139:ARG:HH12	2.08	0.56
18:AC:221:ILE:O	18:AC:252:ALA:HB2	2.05	0.56
18:AC:433:LEU:O	18:AC:441:LYS:HA	2.06	0.56
19:B:54:LYS:NZ	19:B:66:VAL:O	2.39	0.56
2:H:402:LYS:HG3	2:H:403:ILE:H	1.70	0.56
1:I:115:ILE:CD1	1:I:146:PRO:HG3	2.34	0.56
6:K:341:LYS:HA	6:K:344:ILE:HD12	1.87	0.56
3:L:47:LEU:O	3:L:50:LEU:HB2	2.06	0.56
4:M:217:ILE:CG1	4:M:218:GLN:N	2.53	0.56
7:N:902:PRO:HD3	7:N:914:LEU:HD12	1.85	0.56
9:P:438:LEU:O	9:P:442:THR:CG2	2.54	0.56
10:Q:190:LEU:HD21	10:Q:214:SER:CA	2.36	0.56
10:Q:200:ILE:HD12	10:Q:201:TYR:N	2.20	0.56
10:Q:25:ASP:O	10:Q:29:SER:N	2.38	0.56
10:Q:282:ARG:HD3	10:Q:309:TYR:CD1	2.41	0.56
11:R:228:MET:HE1	11:R:263:LEU:CB	2.36	0.56
11:R:369:THR:HG23	11:R:370:ILE:N	2.21	0.56
12:S:231:LEU:HA	12:S:250:LEU:HD11	1.88	0.56
9:P:448:LYS:NZ	14:U:154:THR:OG1	2.37	0.56
4:0:284:PHE:HD1	4:0:285:ILE:H	1.55	0.56
4:0:317:LEU:HD11	4:0:328:VAL:HG21	1.88	0.56
23:F:18:GLU:OE2	4:0:431:LYS:CB	2.53	0.56
7:1:246:TYR:O	7:1:250:PHE:N	2.36	0.56
9:3:76:GLU:CG	9:3:77:ALA:H	2.19	0.56
10:4:163:LYS:HD2	10:4:200:ILE:CB	2.33	0.56
10:4:32:LYS:CB	10:4:33:ARG:CB	2.84	0.56
10:4:7:VAL:O	10:4:11:ARG:N	2.28	0.56
12:6:236:ARG:O	12:6:239:THR:OG1	2.16	0.56
12:6:333:ILE:HD11	12:6:357:LEU:HD13	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:90:GLU:C	2:H:93:LEU:HB2	2.25	0.56
1:I:287:ILE:O	1:I:290:ILE:CG2	2.34	0.56
1:I:231:GLY:O	1:I:353:PHE:CE2	2.59	0.56
5:J:246:ILE:O	5:J:291:VAL:HA	2.06	0.56
5:J:99:VAL:HB	5:J:103:ILE:HD11	1.88	0.56
6:K:276:ASP:CA	6:K:282:ASP:OD2	2.54	0.56
6:K:47:LEU:O	6:K:50:GLU:N	2.38	0.56
3:L:178:THR:HB	3:L:301:ILE:HG22	1.87	0.56
3:L:322:LYS:HD3	3:L:326:ILE:CD1	2.33	0.56
4:M:427:VAL:O	4:M:427:VAL:HG12	2.06	0.56
7:N:610:VAL:CG1	14:U:178:ASP:OD1	2.54	0.56
7:N:68:PHE:O	7:N:72:GLY:N	2.38	0.56
7:N:790:GLY:HA3	7:N:798:PRO:O	2.06	0.56
7:N:935:ILE:CG1	7:N:939:GLU:HB3	2.36	0.56
8:O:364:GLU:HG3	8:O:365:MET:H	1.71	0.56
8:O:4:VAL:O	8:O:8:LEU:CB	2.54	0.56
10:Q:163:LYS:HD2	10:Q:200:ILE:CB	2.33	0.56
11:R:327:VAL:O	11:R:330:ILE:N	2.39	0.56
11:R:304:TYR:CD2	11:R:334:LEU:HD21	2.39	0.56
12:S:267:ALA:O	12:S:271:VAL:HG13	2.06	0.56
12:S:477:HIS:CA	13:T:342:TYR:OH	2.54	0.56
15:V:255:TYR:N	15:V:280:PRO:CG	2.68	0.56
16:W:61:LEU:O	16:W:62:THR:CB	2.54	0.56
4:O:91:SER:OG	4:O:153:VAL:HG21	2.05	0.55
7:1:135:ASN:O	7:1:139:GLN:N	2.29	0.55
7:1:637:VAL:O	7:1:641:SER:N	2.22	0.55
8:2:364:GLU:HG3	8:2:365:MET:H	1.71	0.55
10:4:163:LYS:CB	10:4:200:ILE:HG21	2.36	0.55
10:4:282:ARG:HD3	10:4:309:TYR:CD1	2.41	0.55
11:5:185:GLY:O	11:5:201:PHE:CZ	2.52	0.55
14:8:215:VAL:CG1	14:8:220:LEU:CB	2.83	0.55
14:8:47:VAL:CG1	14:8:48:LEU:N	2.69	0.55
17:AB:61:GLU:O	17:AB:65:TYR:N	2.37	0.55
1:I:151:LEU:O	1:I:159:VAL:HA	2.05	0.55
1:I:174:MET:HE1	1:I:270:LEU:HA	1.87	0.55
6:K:160:PRO:CB	6:K:217:LYS:HA	2.36	0.55
6:K:355:SER:OG	6:K:358:VAL:CG2	2.54	0.55
3:L:223:ARG:O	3:L:226:GLN:HG2	2.06	0.55
7:N:748:LEU:HB2	7:N:759:SER:HB3	1.88	0.55
9:P:150:ALA:HB2	9:P:165:ILE:CD1	2.32	0.55
10:Q:239:TYR:C	10:Q:247:ALA:HB2	2.26	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:R:199:GLU:O	11:R:203:ASP:HB2	2.06	0.55
14:U:47:VAL:CG1	14:U:48:LEU:N	2.69	0.55
15:V:211:GLU:O	15:V:214:GLN:CG	2.54	0.55
9:3:317:TRP:HE3	9:3:317:TRP:HA	1.71	0.55
10:4:61:GLY:O	10:4:64:ALA:HB3	2.06	0.55
11:5:21:GLN:CB	11:5:286:TRP:CZ3	2.88	0.55
16:AA:54:LEU:C	16:AA:85:THR:CB	2.75	0.55
18:AC:300:ARG:CB	18:AC:787:LEU:CB	2.85	0.55
1:I:220:LYS:HG2	1:I:345:GLY:O	2.07	0.55
1:I:423:LYS:CG	1:I:427:LEU:HD12	2.25	0.55
5:J:151:ILE:HG21	5:J:154:LEU:HD12	1.88	0.55
5:J:46:GLN:HG2	6:K:61:ILE:HG21	1.88	0.55
6:K:133:HIS:HB3	6:K:138:ALA:H	1.71	0.55
3:L:153:LEU:C	3:L:156:PRO:HD3	2.27	0.55
3:L:182:LEU:CD1	3:L:185:ARG:HH11	2.19	0.55
3:L:277:MET:HE3	3:L:289:LEU:HD11	1.87	0.55
3:L:342:ASP:O	3:L:374:VAL:HG11	2.06	0.55
10:Q:218:HIS:HB2	10:Q:228:ALA:HB2	1.87	0.55
14:U:74:TYR:CE1	15:V:98:MET:CE	2.89	0.55
18:Z:433:LEU:O	18:Z:441:LYS:HA	2.06	0.55
9:3:406:VAL:CG1	9:3:407:ASP:N	2.69	0.55
9:3:63:THR:OG1	9:3:102:ALA:HB1	2.06	0.55
13:7:329:THR:N	13:7:331:PRO:HD2	2.22	0.55
14:8:61:ASP:N	14:8:65:ASP:CG	2.60	0.55
14:8:79:TYR:HE1	14:8:83:LYS:NZ	2.03	0.55
16:AA:20:ASP:OD2	16:AA:25:ARG:NH1	2.39	0.55
2:H:111:TYR:CD1	2:H:125:LEU:HD23	2.30	0.55
1:I:313:LEU:HD23	2:H:276:GLU:OE2	2.04	0.55
1:I:346:ARG:NH2	33:H:501:ADP:O2B	2.38	0.55
1:I:112:LEU:HB2	1:I:148:CYS:N	2.20	0.55
1:I:283:PHE:CD1	1:I:328:ILE:CB	2.84	0.55
1:I:340:ALA:O	1:I:346:ARG:HD2	2.06	0.55
5:J:211:PHE:CZ	5:J:247:PHE:HB2	2.41	0.55
3:L:238:ILE:HD11	3:L:257:LEU:HA	0.56	0.55
3:L:69:PHE:N	3:L:81:VAL:O	2.36	0.55
3:L:77:PRO:HB3	6:K:106:THR:C	2.26	0.55
4:M:288:LEU:CD2	4:M:342:LEU:HD13	2.15	0.55
7:N:436:ALA:O	7:N:440:GLY:N	2.38	0.55
7:N:457:ILE:O	7:N:461:LEU:N	2.22	0.55
7:N:616:ARG:CZ	7:N:647:HIS:CD2	2.90	0.55
10:Q:2:ALA:HB2	10:Q:34:ASP:N	2.16	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:S:307:ARG:HG3	12:S:307:ARG:HH11	1.71	0.55
12:S:333:ILE:HD11	12:S:357:LEU:HD13	1.88	0.55
12:S:476:PHE:C	12:S:480:ILE:CD1	2.70	0.55
12:S:82:LEU:HA	12:S:85:ALA:HB2	1.88	0.55
13:T:162:PRO:O	13:T:165:GLU:HB2	2.06	0.55
14:U:12:HIS:HD2	14:U:51:SER:CA	2.17	0.55
15:V:157:ILE:O	15:V:157:ILE:HG22	3.07	0.55
17:Y:64:GLY:O	17:Y:68:GLU:N	2.39	0.55
18:Z:126:ILE:O	18:Z:130:ALA:N	2.39	0.55
4:0:197:GLU:OE1	4:0:352:ILE:HD12	2.06	0.55
4:0:231:THR:CG2	4:0:356:MET:HA	2.37	0.55
9:3:290:ILE:HG22	9:3:296:LEU:HD22	1.89	0.55
10:4:218:HIS:HB2	10:4:228:ALA:HB2	1.87	0.55
10:4:239:TYR:HA	10:4:242:ILE:HG22	1.87	0.55
10:4:364:LYS:O	10:4:367:GLN:N	2.39	0.55
13:7:213:GLU:O	13:7:216:PRO:HB2	2.06	0.55
18:AC:336:GLU:O	18:AC:340:MET:N	2.40	0.55
2:H:258:ARG:CD	2:H:305:GLN:NE2	2.57	0.55
2:H:330:ALA:C	2:H:336:ARG:HH11	2.10	0.55
2:H:386:ARG:HD2	2:H:386:ARG:C	2.27	0.55
1:I:218:PRO:HG3	1:I:326:LYS:HZ1	1.72	0.55
5:J:188:LEU:HB3	5:J:317:PHE:CE1	2.39	0.55
5:J:214:VAL:HG22	5:J:234:LEU:HD11	1.88	0.55
6:K:51:LEU:HA	6:K:54:LEU:CD2	2.37	0.55
5:J:39:SER:HB3	6:K:54:LEU:HD13	1.87	0.55
3:L:72:LYS:HA	3:L:78:ARG:HA	1.87	0.55
4:M:249:LEU:CB	4:M:283:ILE:HA	2.35	0.55
7:N:198:LEU:HA	7:N:201:LEU:CG	2.36	0.55
7:N:246:TYR:O	7:N:250:PHE:N	2.36	0.55
10:Q:2:ALA:HB2	10:Q:34:ASP:CB	2.35	0.55
10:Q:32:LYS:CB	10:Q:33:ARG:CB	2.84	0.55
11:R:314:LEU:HD11	11:R:319:MET:HG3	1.89	0.55
12:S:453:HIS:CE1	13:T:286:GLU:CG	2.89	0.55
16:W:171:VAL:CB	16:W:186:SER:HB2	2.37	0.55
7:1:902:PRO:HG2	7:1:905:PRO:HA	1.89	0.55
9:3:171:VAL:HG13	9:3:172:GLU:H	1.72	0.55
10:4:187:ARG:HD3	10:4:217:ILE:HG21	1.88	0.55
10:4:293:ALA:CB	10:4:301:ASP:OD2	2.55	0.55
11:5:33:GLY:HA2	11:5:34:ASP:C	2.27	0.55
12:6:267:ALA:O	12:6:271:VAL:HG23	2.06	0.55
12:6:307:ARG:HG3	12:6:307:ARG:HH11	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:6:506:GLU:O	12:6:507:SER:O	2.24	0.55
16:AA:53:THR:O	16:AA:58:CYS:CA	2.53	0.55
16:AA:61:LEU:O	16:AA:62:THR:CB	2.54	0.55
20:C:173:LEU:HD21	20:C:193:THR:HG21	1.89	0.55
22:E:43:LEU:HD12	22:E:72:ALA:HB2	1.87	0.55
2:H:327:LEU:HD12	2:H:331:LEU:CD1	2.36	0.55
1:I:214:MET:CE	2:H:397:ILE:HG13	2.36	0.55
1:I:304:GLU:HA	1:I:304:GLU:OE2	2.07	0.55
1:I:423:LYS:HG3	1:I:427:LEU:CD1	2.26	0.55
5:J:222:LYS:HD3	5:J:222:LYS:O	2.07	0.55
3:L:257:LEU:HD13	3:L:261:LEU:CD1	2.36	0.55
3:L:166:PRO:CB	3:L:274:LYS:NZ	2.67	0.55
4:M:197:GLU:OE1	4:M:352:ILE:HD12	2.06	0.55
4:M:435:LEU:CD2	4:M:438:TYR:CZ	2.80	0.55
7:N:381:THR:HG23	7:N:412:HIS:CE1	2.41	0.55
7:N:515:ALA:HA	7:N:518:LEU:HD12	1.87	0.55
9:P:373:ILE:HG21	9:P:415:PHE:HE2	1.72	0.55
10:Q:249:THR:O	10:Q:253:TYR:CE2	2.60	0.55
13:T:173:CYS:O	13:T:177:ASP:CG	2.45	0.55
14:U:74:TYR:HD1	15:V:98:MET:HE1	1.71	0.55
14:U:34:ARG:HD2	14:U:96:HIS:HB2	1.89	0.55
16:W:20:ASP:OD2	16:W:25:ARG:NH1	2.39	0.55
11:R:280:GLN:HE21	17:Y:52:PHE:HB2	1.71	0.55
4:O:59:VAL:O	4:O:63:THR:N	2.32	0.55
7:1:616:ARG:CZ	7:1:647:HIS:CD2	2.90	0.55
11:5:142:PHE:CE1	11:5:180:LEU:CD2	2.83	0.55
11:5:304:TYR:CD2	11:5:334:LEU:HD21	2.39	0.55
16:AA:5:SER:O	16:AA:108:ARG:N	2.39	0.55
21:D:143:TYR:CE2	22:E:57:ARG:NH1	2.75	0.55
2:H:109:PRO:HG2	2:H:110:LYS:H	1.72	0.55
2:H:114:ASN:N	2:H:114:ASN:HD22	2.01	0.55
2:H:347:ASP:O	2:H:351:ARG:CZ	2.55	0.55
2:H:422:LYS:HG3	2:H:423:PHE:CE1	2.41	0.55
5:J:175:PHE:N	5:J:175:PHE:CD1	2.74	0.55
5:J:194:THR:HA	5:J:356:GLY:N	2.17	0.55
5:J:222:LYS:HB3	6:K:286:GLN:NE2	2.20	0.55
6:K:205:TYR:HE1	6:K:332:GLU:CB	2.20	0.55
7:N:802:TYR:H	7:N:879:ASP:HB2	1.72	0.55
9:P:153:LYS:HE3	9:P:162:ALA:HA	1.85	0.55
9:P:373:ILE:HG13	9:P:374:THR:H	1.71	0.55
9:P:85:GLU:O	9:P:89:LEU:HG	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:R:191:ILE:C	11:R:291:HIS:HE1	2.09	0.55
12:S:471:GLU:N	12:S:472:PRO:CD	2.69	0.55
13:T:339:VAL:O	13:T:343:ALA:N	2.28	0.55
14:U:61:ASP:N	14:U:65:ASP:CG	2.60	0.55
15:V:225:TRP:C	15:V:227:GLU:N	2.60	0.55
16:W:99:HIS:O	16:W:101:GLN:NE2	2.40	0.55
16:W:5:SER:O	16:W:108:ARG:N	2.39	0.55
16:W:12:ASN:ND2	16:W:80:PRO:HA	2.21	0.55
4:0:254:PRO:O	4:0:257:VAL:HB	2.06	0.55
7:1:532:MET:O	7:1:536:ALA:N	2.29	0.55
7:1:801:GLN:CB	7:1:879:ASP:H	2.18	0.55
9:3:150:ALA:HB2	9:3:165:ILE:CD1	2.32	0.55
11:5:142:PHE:HZ	11:5:180:LEU:HD23	1.65	0.55
11:5:280:GLN:HE21	17:AB:52:PHE:HB2	1.71	0.55
12:6:345:ARG:C	12:6:347:GLN:N	2.52	0.55
15:9:248:MET:HE3	15:9:288:VAL:HG23	1.88	0.55
24:G:176:MET:HE1	25:X:56:LYS:HB3	1.89	0.55
2:H:272:ILE:CD1	2:H:315:ILE:CG2	2.85	0.55
2:H:99:THR:HG21	2:H:142:VAL:HG21	0.65	0.55
1:I:309:MET:CE	1:I:341:LEU:HD11	2.37	0.55
5:J:137:LEU:CB	5:J:224:ILE:CG1	2.84	0.55
5:J:235:PHE:CE1	5:J:276:LEU:HD23	2.36	0.55
3:L:257:LEU:HD13	3:L:261:LEU:HD11	1.88	0.55
3:L:360:ASP:OD1	3:L:361:PHE:N	2.40	0.55
3:L:49:ALA:HB1	4:M:136:VAL:CG1	2.33	0.55
4:M:254:PRO:O	4:M:257:VAL:HB	2.06	0.55
7:N:236:LEU:HD11	7:N:245:ALA:HB2	1.88	0.55
9:P:406:VAL:CG1	9:P:407:ASP:N	2.69	0.55
10:Q:276:ALA:C	10:Q:278:ARG:H	2.08	0.55
12:S:348:PHE:CZ	12:S:361:PHE:HA	2.40	0.55
14:U:61:ASP:H	14:U:65:ASP:CG	2.09	0.55
14:U:79:TYR:CE1	14:U:91:ILE:HG12	2.41	0.55
14:U:98:GLY:O	14:U:99:PRO:C	2.43	0.55
4:0:124:ILE:CD1	4:0:160:ILE:HD11	2.36	0.55
4:0:274:LEU:O	4:0:274:LEU:HD22	2.07	0.55
7:1:733:ALA:HA	7:1:736:ILE:HD12	1.88	0.55
7:1:793:LYS:H	7:1:916:ASP:HB2	1.72	0.55
8:2:4:VAL:O	8:2:8:LEU:CB	2.54	0.55
9:3:401:THR:C	9:3:402:ILE:HG23	2.27	0.55
11:5:286:TRP:CE2	11:5:287:LEU:CD2	2.90	0.55
14:8:101:LEU:O	14:8:102:HIS:CG	2.59	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:3:446:ILE:HD12	14:8:211:TYR:CG	2.40	0.55
19:B:6:SER:HB2	19:B:11:ARG:HH11	1.71	0.55
2:H:218:PRO:HG3	2:H:429:TYR:CD2	2.42	0.55
2:H:426:THR:N	2:H:427:PRO:CD	2.70	0.55
1:I:135:ILE:HD11	1:I:139:VAL:HG23	1.89	0.55
5:J:111:ASN:O	5:J:130:LYS:HG2	2.06	0.55
6:K:312:ASN:ND2	6:K:312:ASN:H	2.02	0.55
3:L:125:GLU:O	3:L:127:PRO:N	2.40	0.55
3:L:219:PHE:O	3:L:223:ARG:CB	2.54	0.55
4:M:153:VAL:CG1	4:M:158:TYR:CA	2.79	0.55
4:M:59:VAL:O	4:M:63:THR:N	2.32	0.55
4:M:88:TYR:OH	4:M:161:LEU:HB3	2.07	0.55
8:O:104:VAL:O	8:O:105:LYS:HB2	2.06	0.55
9:P:401:THR:C	9:P:402:ILE:HG23	2.27	0.55
10:Q:187:ARG:HD3	10:Q:217:ILE:HG21	1.88	0.55
11:R:237:ARG:CB	11:R:264:TYR:CZ	2.90	0.55
14:U:173:GLU:O	14:U:177:ARG:HB3	2.07	0.55
18:Z:831:VAL:HA	18:Z:877:GLY:HA2	1.89	0.55
4:O:139:LEU:C	4:O:140:VAL:HG22	2.27	0.55
4:O:268:VAL:O	4:O:272:PHE:HB2	2.06	0.55
10:4:168:GLU:O	10:4:172:LEU:HB2	2.07	0.55
10:4:236:PHE:CD1	10:4:251:LEU:HG	2.37	0.55
10:4:261:LEU:O	10:4:262:ASN:HB2	2.07	0.55
10:4:276:ALA:C	10:4:278:ARG:H	2.08	0.55
11:5:379:ARG:CG	11:5:379:ARG:HH11	2.20	0.55
12:6:268:GLU:CG	12:6:269:LYS:H	2.18	0.55
14:8:173:GLU:O	14:8:177:ARG:HB3	2.07	0.55
16:AA:99:HIS:O	16:AA:101:GLN:NE2	2.40	0.55
17:AB:64:GLY:O	17:AB:68:GLU:N	2.39	0.55
18:AC:269:ALA:HA	18:AC:277:LEU:CB	2.37	0.55
19:B:202:LEU:C	19:B:205:VAL:HG12	2.28	0.55
2:H:157:ILE:O	2:H:157:ILE:HG22	2.06	0.55
1:I:180:PRO:O	1:I:181:GLN:HB2	2.06	0.55
5:J:30:GLU:HG3	6:K:44:TYR:HB2	1.89	0.55
5:J:320:PRO:CD	5:J:354:ALA:O	2.55	0.55
6:K:267:ILE:HG13	6:K:311:THR:HG21	1.89	0.55
4:M:124:ILE:CD1	4:M:160:ILE:HD11	2.36	0.55
4:M:348:LEU:HD12	4:M:348:LEU:H	1.71	0.55
7:N:529:ILE:HG23	7:N:566:LEU:HD22	1.88	0.55
7:N:775:LEU:O	7:N:777:HIS:N	2.39	0.55
9:P:171:VAL:HG13	9:P:172:GLU:H	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:P:444:HIS:HE1	14:U:138:TYR:CZ	2.04	0.55
10:Q:96:PHE:CZ	10:Q:106:GLU:CD	2.81	0.55
11:R:250:LEU:HD21	11:R:257:ARG:HB3	1.83	0.55
11:R:379:ARG:HH11	11:R:379:ARG:CG	2.20	0.55
12:S:325:LYS:O	12:S:328:VAL:HG12	2.07	0.55
4:O:348:LEU:HD12	4:O:348:LEU:H	1.71	0.55
4:O:88:TYR:OH	4:O:161:LEU:HB3	2.07	0.55
7:1:198:LEU:HA	7:1:201:LEU:CG	2.36	0.55
7:1:610:VAL:CG1	14:8:178:ASP:OD1	2.54	0.55
10:4:297:ARG:HD3	10:4:333:GLN:HB3	1.89	0.55
11:5:237:ARG:CB	11:5:264:TYR:CZ	2.90	0.55
12:6:325:LYS:O	12:6:328:VAL:HG12	2.07	0.55
1:I:356:PRO:HB2	1:I:361:LYS:CG	2.37	0.55
5:J:155:ASP:O	5:J:156:LYS:C	2.45	0.55
5:J:154:LEU:CD2	5:J:317:PHE:CE2	2.90	0.55
6:K:161:ASP:O	6:K:162:VAL:C	2.45	0.55
6:K:285:VAL:HA	6:K:288:ILE:HD12	1.87	0.55
6:K:77:GLU:O	6:K:80:LYS:HB2	2.07	0.55
3:L:367:PHE:O	3:L:371:VAL:HG23	2.07	0.55
4:M:272:PHE:HE2	4:M:316:GLN:C	2.10	0.55
4:M:426:GLU:C	4:M:428:GLN:H	2.11	0.55
15:V:89:PRO:HD2	15:V:90:VAL:N	2.18	0.55
16:W:21:PHE:HZ	16:W:179:LEU:HD22	1.72	0.55
18:Z:408:LEU:HA	18:Z:443:GLY:HA2	1.88	0.55
4:O:272:PHE:HE2	4:O:316:GLN:C	2.10	0.54
10:4:148:HIS:HE1	10:4:152:GLN:NE2	2.01	0.54
10:4:190:LEU:HD21	10:4:214:SER:CA	2.36	0.54
12:6:82:LEU:HA	12:6:85:ALA:HB2	1.88	0.54
16:AA:39:SER:O	16:AA:43:SER:N	2.40	0.54
2:H:154:PRO:HB2	2:H:155:PRO:HD3	1.89	0.54
2:H:215:PHE:HB2	2:H:324:PRO:CG	2.37	0.54
2:H:245:LEU:C	2:H:247:GLN:NE2	2.60	0.54
6:K:392:TYR:O	6:K:393:ILE:CB	2.53	0.54
3:L:238:ILE:CG1	3:L:257:LEU:HA	2.31	0.54
3:L:257:LEU:C	3:L:261:LEU:HD12	2.27	0.54
3:L:313:LEU:HD23	3:L:332:VAL:CG2	2.37	0.54
3:L:72:LYS:HB2	3:L:78:ARG:HG3	1.89	0.54
10:Q:135:SER:HB2	10:Q:172:LEU:CD2	2.35	0.54
10:Q:340:GLU:HB2	10:Q:341:PRO:CD	2.36	0.54
12:S:506:GLU:O	12:S:507:SER:O	2.24	0.54
18:Z:300:ARG:CB	18:Z:787:LEU:CB	2.85	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:1:775:LEU:O	7:1:777:HIS:N	2.39	0.54
9:3:153:LYS:HE3	9:3:162:ALA:HA	1.85	0.54
9:3:359:VAL:HG21	9:3:392:PHE:CZ	2.42	0.54
9:3:373:ILE:HG13	9:3:374:THR:H	1.71	0.54
11:5:314:LEU:HD11	11:5:319:MET:HG3	1.89	0.54
11:5:369:THR:HG23	11:5:370:ILE:N	2.21	0.54
12:6:231:LEU:O	12:6:250:LEU:CD2	2.48	0.54
12:6:235:LEU:HB2	12:6:250:LEU:CD2	2.38	0.54
14:8:23:PHE:CG	14:8:126:VAL:HG21	2.36	0.54
14:8:240:VAL:CB	14:8:242:LEU:CD2	2.84	0.54
9:3:425:LEU:HD13	15:9:234:TYR:CE2	2.42	0.54
16:AA:171:VAL:CB	16:AA:186:SER:HB2	2.37	0.54
19:B:173:THR:O	19:B:176:THR:OG1	2.25	0.54
19:B:72:ILE:HG21	19:B:114:LEU:HD11	1.88	0.54
20:C:67:ILE:HD11	20:C:73:LEU:HD12	1.88	0.54
23:F:232:GLU:OE2	23:F:232:GLU:N	2.38	0.54
23:F:49:ALA:HB2	23:F:217:LEU:HD23	1.89	0.54
2:H:283:ALA:HB3	2:H:285:PHE:HE1	1.71	0.54
1:I:181:GLN:NE2	1:I:181:GLN:HA	2.22	0.54
1:I:217:LYS:HB3	1:I:218:PRO:HD2	1.86	0.54
1:I:276:GLU:C	1:I:278:ALA:N	2.61	0.54
1:I:343:ARG:CZ	1:I:346:ARG:HH21	2.14	0.54
1:I:97:SER:O	1:I:101:ASP:N	2.23	0.54
6:K:200:ARG:HB2	6:K:325:GLY:O	2.08	0.54
6:K:205:TYR:CB	6:K:311:THR:O	2.54	0.54
3:L:79:TYR:CD1	6:K:88:VAL:HG12	2.42	0.54
3:L:132:TYR:CE2	3:L:146:ARG:NH2	2.75	0.54
4:M:139:LEU:C	4:M:140:VAL:HG22	2.27	0.54
4:M:274:LEU:HD22	4:M:274:LEU:O	2.07	0.54
9:P:445:LEU:HB3	14:U:226:ILE:HD11	1.88	0.54
9:P:76:GLU:CG	9:P:77:ALA:H	2.19	0.54
10:Q:169:VAL:O	10:Q:173:GLU:HB3	2.07	0.54
10:Q:216:ILE:HD13	10:Q:318:ILE:CD1	2.37	0.54
11:R:366:TYR:O	11:R:369:THR:HG22	2.08	0.54
14:U:101:LEU:O	14:U:102:HIS:CG	2.59	0.54
15:V:241:ASN:O	15:V:245:VAL:CG2	2.55	0.54
15:V:248:MET:HE3	15:V:284:LEU:O	2.07	0.54
16:W:131:LEU:HD11	16:W:156:PHE:HZ	1.72	0.54
16:W:15:TYR:C	16:W:25:ARG:HD3	2.28	0.54
16:W:29:GLN:O	16:W:33:VAL:HG23	2.08	0.54
18:Z:286:LYS:HA	18:Z:328:SER:O	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:0:249:LEU:HB3	4:0:283:ILE:CA	2.35	0.54
4:0:310:MET:HE1	4:0:339:ASP:CB	2.37	0.54
11:5:77:ASN:HA	11:5:110:TYR:OH	2.08	0.54
12:6:471:GLU:N	12:6:472:PRO:CD	2.69	0.54
14:8:275:LEU:O	14:8:275:LEU:HD13	2.08	0.54
14:8:34:ARG:HD2	14:8:96:HIS:HB2	1.89	0.54
15:9:255:TYR:HA	15:9:280:PRO:CG	2.35	0.54
15:9:98:MET:HA	15:9:98:MET:HE2	1.89	0.54
16:AA:12:ASN:ND2	16:AA:80:PRO:HA	2.21	0.54
18:AC:142:TYR:O	18:AC:146:GLY:N	2.40	0.54
2:H:120:LYS:HB2	4:M:90:VAL:HG21	1.90	0.54
1:I:111:THR:O	1:I:124:SER:N	2.40	0.54
1:I:278:ALA:CB	1:I:279:PRO:CD	2.83	0.54
5:J:71:SER:HB2	6:K:112:TYR:HB3	1.89	0.54
6:K:123:LEU:HD22	6:K:125:LYS:NZ	2.23	0.54
6:K:310:ALA:O	6:K:311:THR:CG2	2.56	0.54
6:K:205:TYR:CE1	6:K:332:GLU:HG2	2.43	0.54
6:K:391:ARG:HH12	6:K:395:LEU:HD12	1.69	0.54
7:N:35:TRP:CE2	7:N:70:HIS:HB3	2.42	0.54
7:N:793:LYS:H	7:N:916:ASP:HB2	1.72	0.54
9:P:317:TRP:HA	9:P:317:TRP:HE3	1.71	0.54
9:P:373:ILE:CG2	9:P:415:PHE:CE2	2.90	0.54
10:Q:168:GLU:O	10:Q:172:LEU:HB2	2.07	0.54
10:Q:190:LEU:HD21	10:Q:214:SER:OG	2.08	0.54
10:Q:93:LEU:O	10:Q:97:LEU:HG	2.06	0.54
12:S:298:ILE:HG21	13:T:213:GLU:CB	2.38	0.54
13:T:335:LEU:HD23	15:V:303:MET:HE3	1.89	0.54
15:V:64:ASP:CA	15:V:139:ARG:HH12	2.20	0.54
14:U:201:LEU:HD21	15:V:309:PHE:HE1	1.72	0.54
15:V:97:ASP:OD1	15:V:98:MET:N	2.41	0.54
7:1:35:TRP:CE2	7:1:70:HIS:HB3	2.42	0.54
7:1:802:TYR:H	7:1:879:ASP:HB2	1.72	0.54
10:4:216:ILE:HD13	10:4:318:ILE:CD1	2.37	0.54
11:5:168:ILE:HG22	11:5:177:ARG:HE	1.72	0.54
12:6:472:PRO:CB	12:6:476:PHE:CE2	2.78	0.54
16:AA:138:VAL:N	16:AA:167:GLY:O	2.40	0.54
18:AC:478:ARG:O	18:AC:482:ILE:N	2.31	0.54
2:H:246:VAL:HG21	2:H:295:VAL:HG13	1.89	0.54
5:J:75:GLU:HB3	5:J:88:LYS:O	2.08	0.54
6:K:162:VAL:HG21	6:K:217:LYS:HD3	1.89	0.54
6:K:167:ILE:HG12	6:K:214:MET:HE2	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:K:185:LEU:CD2	6:K:259:PRO:HB3	2.38	0.54
6:K:216:ALA:CB	6:K:263:PHE:CE2	2.91	0.54
6:K:346:SER:O	6:K:350:SER:HB3	2.08	0.54
3:L:109:ARG:CB	3:L:109:ARG:HH11	2.20	0.54
3:L:300:HIS:CD2	3:L:301:ILE:N	2.75	0.54
4:M:172:VAL:HG21	4:M:270:ASP:HB3	1.89	0.54
7:N:110:LYS:O	7:N:114:GLU:N	2.20	0.54
9:P:317:TRP:HA	9:P:317:TRP:CE3	2.42	0.54
10:Q:239:TYR:CA	10:Q:242:ILE:CG2	2.84	0.54
10:Q:320:SER:O	10:Q:323:LEU:N	2.35	0.54
11:R:185:GLY:HA3	11:R:201:PHE:CE2	2.42	0.54
11:R:19:ILE:HG21	11:R:53:TYR:OH	2.08	0.54
13:T:332:SER:OG	15:V:303:MET:C	2.43	0.54
14:U:54:PHE:CE1	14:U:78:MET:HG2	2.42	0.54
15:V:89:PRO:CD	15:V:90:VAL:N	2.71	0.54
25:X:86:SER:O	25:X:90:ILE:HD12	2.07	0.54
12:S:317:PRO:CG	17:Y:7:PRO:CB	2.86	0.54
18:Z:142:TYR:O	18:Z:146:GLY:N	2.40	0.54
18:Z:528:GLY:N	18:Z:565:ASN:O	2.40	0.54
23:F:18:GLU:CD	4:0:431:LYS:HD2	2.23	0.54
7:1:748:LEU:HD13	7:1:759:SER:HB2	1.89	0.54
10:4:244:SER:N	10:4:245:PRO:HD3	2.23	0.54
11:5:188:CYS:HB2	11:5:197:ALA:HB2	1.87	0.54
10:4:418:ALA:HB2	11:5:387:ILE:HD11	1.90	0.54
11:5:19:ILE:HG21	11:5:53:TYR:OH	2.08	0.54
12:6:224:LEU:O	12:6:228:ARG:CB	2.54	0.54
13:7:173:CYS:O	13:7:177:ASP:CG	2.45	0.54
7:1:540:GLN:CG	15:9:68:ARG:HH22	2.21	0.54
24:G:36:VAL:HG13	24:G:172:LEU:HD11	1.89	0.54
2:H:188:ARG:O	2:H:192:GLU:HB3	2.08	0.54
6:K:385:LEU:CD2	6:K:401:LYS:HG3	2.37	0.54
3:L:338:PHE:HE1	3:L:375:ALA:HA	1.72	0.54
4:M:310:MET:HE1	4:M:339:ASP:CB	2.36	0.54
7:N:191:LYS:CG	7:N:195:ASN:CG	2.76	0.54
7:N:748:LEU:HD13	7:N:759:SER:HB2	1.89	0.54
10:Q:244:SER:N	10:Q:245:PRO:HD3	2.23	0.54
11:R:33:GLY:HA2	11:R:34:ASP:C	2.27	0.54
12:S:483:CYS:SG	14:U:265:LEU:HA	2.48	0.54
15:V:118:PHE:N	15:V:118:PHE:CD1	2.76	0.54
15:V:237:HIS:CD2	15:V:238:CYS:N	2.75	0.54
15:V:85:GLU:OE1	15:V:85:GLU:N	2.33	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:W:12:ASN:CG	16:W:80:PRO:HA	2.28	0.54
25:X:47:PHE:HB2	25:X:214:SER:HB2	1.90	0.54
18:Z:269:ALA:HA	18:Z:277:LEU:CB	2.37	0.54
18:Z:662:MET:O	18:Z:664:GLU:N	2.34	0.54
4:0:90:VAL:HG22	4:0:127:SER:OG	2.05	0.54
4:0:172:VAL:HG21	4:0:270:ASP:HB3	1.89	0.54
23:F:20:ARG:HD2	4:0:435:LEU:HD13	1.90	0.54
9:3:317:TRP:CE3	9:3:320:LEU:HB3	2.42	0.54
11:5:292:TYR:CD1	11:5:293:ARG:N	2.76	0.54
14:8:54:PHE:CE1	14:8:78:MET:HG2	2.42	0.54
18:AC:528:GLY:N	18:AC:565:ASN:O	2.40	0.54
19:B:107:TYR:HD1	19:B:107:TYR:O	1.89	0.54
2:H:283:ALA:O	2:H:296:GLN:OE1	2.26	0.54
1:I:287:ILE:HG21	1:I:329:MET:HE3	1.89	0.54
1:I:329:MET:SD	1:I:347:ILE:HD11	2.48	0.54
1:I:407:LEU:HD22	5:J:174:LEU:HD13	1.88	0.54
6:K:119:ILE:N	6:K:119:ILE:HD12	2.21	0.54
6:K:151:ILE:CD1	6:K:229:ARG:HH11	2.20	0.54
6:K:92:PHE:O	6:K:127:ASN:CA	2.52	0.54
3:L:325:GLU:OE1	3:L:363:VAL:CG2	2.53	0.54
4:M:141:ASP:H	4:M:144:LYS:HD2	1.73	0.54
4:M:311:LEU:HD23	4:M:314:LEU:HD12	1.90	0.54
4:M:380:ASN:HB3	4:M:383:GLU:OE1	2.08	0.54
9:P:359:VAL:HG21	9:P:392:PHE:CZ	2.42	0.54
10:Q:261:LEU:O	10:Q:262:ASN:HB2	2.07	0.54
10:Q:293:ALA:CB	10:Q:301:ASP:OD2	2.55	0.54
12:S:235:LEU:HB2	12:S:250:LEU:CD2	2.38	0.54
13:T:329:THR:N	13:T:331:PRO:HD2	2.22	0.54
14:U:275:LEU:O	14:U:275:LEU:HD13	2.08	0.54
16:W:54:LEU:C	16:W:85:THR:CB	2.75	0.54
18:Z:336:GLU:O	18:Z:340:MET:N	2.40	0.54
18:Z:415:GLY:O	18:Z:419:LEU:N	2.41	0.54
4:0:249:LEU:CD2	4:0:283:ILE:CG1	2.43	0.54
7:1:191:LYS:CG	7:1:195:ASN:CG	2.76	0.54
10:4:203:PRO:CB	10:4:204:PRO:CD	2.83	0.54
10:4:249:THR:O	10:4:253:TYR:CE2	2.60	0.54
10:4:260:MET:CE	10:4:322:HIS:HD2	2.21	0.54
11:5:131:THR:C	11:5:132:VAL:HG23	2.26	0.54
2:H:209:PRO:CB	2:H:339:ARG:HG3	2.37	0.54
2:H:356:LYS:O	2:H:360:ARG:CB	2.55	0.54
1:I:227:PRO:HG2	1:I:355:LEU:CD1	2.32	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:J:39:SER:OG	6:K:54:LEU:HD13	2.08	0.54
6:K:225:ALA:HB2	6:K:259:PRO:O	1.98	0.54
6:K:93:LEU:HG	6:K:94:GLU:N	2.22	0.54
3:L:211:SER:HB3	3:L:256:THR:HG21	1.90	0.54
3:L:65:THR:OG1	3:L:68:LYS:HB2	2.07	0.54
4:M:90:VAL:HG22	4:M:127:SER:OG	2.05	0.54
9:P:186:ILE:HG23	9:P:208:LYS:HZ1	1.71	0.54
10:Q:152:GLN:O	10:Q:156:GLU:HG2	2.08	0.54
10:Q:236:PHE:CD1	10:Q:251:LEU:HG	2.37	0.54
16:W:100:ARG:NE	16:W:105:HIS:O	2.25	0.54
16:W:24:THR:O	16:W:28:ALA:N	2.29	0.54
18:Z:234:THR:O	18:Z:237:VAL:N	2.41	0.54
4:O:137:ILE:HG22	4:O:140:VAL:CG2	2.25	0.54
7:1:657:GLY:HA2	7:1:694:ILE:HD11	1.89	0.54
7:1:711:GLN:O	7:1:715:LYS:CG	2.56	0.54
9:3:444:HIS:HE1	14:8:138:TYR:CZ	2.04	0.54
9:3:85:GLU:O	9:3:89:LEU:HG	2.07	0.54
10:4:25:ASP:O	10:4:29:SER:N	2.38	0.54
11:5:191:ILE:CG2	11:5:192:ARG:H	2.21	0.54
11:5:268:TYR:HE2	11:5:307:LEU:CB	2.19	0.54
11:5:327:VAL:O	11:5:330:ILE:N	2.39	0.54
12:6:320:THR:O	12:6:322:VAL:HG23	2.08	0.54
12:6:483:CYS:SG	14:8:265:LEU:HA	2.48	0.54
13:7:162:PRO:O	13:7:165:GLU:HB2	2.06	0.54
15:9:64:ASP:CA	15:9:139:ARG:HH12	2.20	0.54
16:AA:131:LEU:HD11	16:AA:156:PHE:HZ	1.72	0.54
18:AC:497:VAL:O	18:AC:501:LEU:N	2.33	0.54
18:AC:767:GLY:O	18:AC:771:LEU:N	2.41	0.54
24:G:225:ASP:HA	24:G:229:VAL:HG23	1.90	0.54
2:H:204:LEU:HD21	2:H:206:ILE:HG21	1.90	0.54
2:H:245:LEU:C	2:H:247:GLN:HE22	2.11	0.54
1:I:171:VAL:HG22	1:I:273:VAL:HG13	1.88	0.54
1:I:255:LEU:HD11	1:I:267:VAL:CG2	2.37	0.54
1:I:269:GLU:O	1:I:273:VAL:CG2	2.53	0.54
1:I:283:PHE:CE2	1:I:285:ASP:HB2	2.43	0.54
5:J:128:PRO:O	5:J:129:ASN:HB2	2.08	0.54
6:K:103:VAL:HG11	6:K:139:LEU:CD2	2.33	0.54
6:K:90:GLY:N	6:K:130:VAL:O	2.33	0.54
6:K:151:ILE:CG2	6:K:152:MET:N	2.65	0.54
6:K:213:THR:OG1	33:K:501:ADP:O1B	2.17	0.54
9:P:290:ILE:HG22	9:P:296:LEU:HD22	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:Q:418:ALA:HB2	11:R:387:ILE:HD11	1.90	0.54
11:R:286:TRP:CE2	11:R:287:LEU:CD2	2.90	0.54
11:R:292:TYR:CD1	11:R:293:ARG:N	2.76	0.54
11:R:229:ILE:HG12	11:R:295:TYR:OH	2.08	0.54
10:Q:415:TYR:CE1	11:R:383:LEU:HB3	2.42	0.54
14:U:240:VAL:CB	14:U:242:LEU:CD2	2.84	0.54
15:V:116:PRO:O	15:V:118:PHE:CD1	2.61	0.54
10:4:248:ILE:HG21	10:4:283:GLN:OE1	2.08	0.54
10:4:392:PRO:O	10:4:394:ASP:N	2.41	0.54
20:C:45:LEU:HD13	20:C:74:VAL:HG22	1.89	0.54
22:E:43:LEU:HD22	22:E:134:VAL:HG21	1.90	0.54
2:H:157:ILE:HG22	2:H:161:VAL:HB	1.89	0.54
1:I:183:THR:CA	1:I:241:ASN:HD22	2.14	0.54
6:K:119:ILE:H	6:K:119:ILE:CD1	2.21	0.54
6:K:128:ALA:HB3	6:K:142:VAL:HG13	1.80	0.54
6:K:273:LYS:HG3	6:K:274:ARG:N	2.15	0.54
4:M:261:ILE:HG12	4:M:261:ILE:O	2.08	0.54
9:P:317:TRP:CE3	9:P:320:LEU:HB3	2.42	0.54
10:Q:106:GLU:O	10:Q:110:CYS:SG	2.66	0.54
10:Q:392:PRO:O	10:Q:394:ASP:N	2.41	0.54
14:U:138:TYR:HD1	14:U:157:HIS:HA	1.72	0.54
6:K:70:LYS:HE2	14:U:182:THR:CB	2.38	0.54
15:V:251:LEU:HD12	15:V:283:HIS:HB3	1.87	0.54
16:W:138:VAL:N	16:W:167:GLY:O	2.40	0.54
16:W:169:HIS:CD2	16:W:187:PRO:HB2	2.39	0.54
18:Z:597:VAL:C	18:Z:599:ALA:H	2.11	0.54
4:0:141:ASP:H	4:0:144:LYS:HD2	1.73	0.54
4:0:314:LEU:HD23	4:0:342:LEU:CD2	2.37	0.54
7:1:178:ALA:HA	7:1:181:LEU:HB3	1.90	0.54
13:7:262:ILE:O	13:7:265:ASP:CG	2.47	0.54
19:B:191:PHE:CE1	19:B:219:VAL:HG21	2.43	0.54
2:H:177:VAL:HB	2:H:184:ILE:HD11	1.90	0.54
2:H:188:ARG:HD2	2:H:192:GLU:OE1	2.08	0.54
2:H:215:PHE:CB	2:H:324:PRO:HB3	2.37	0.54
2:H:277:ILE:HD12	2:H:278:ASP:OD1	2.08	0.54
2:H:258:ARG:HD2	2:H:305:GLN:HE22	1.68	0.54
1:I:122:ILE:HD12	1:I:131:HIS:O	2.07	0.54
1:I:141:LYS:HG2	1:I:142:ASP:N	2.22	0.54
3:L:162:VAL:HG21	6:K:387:VAL:CG2	2.37	0.54
3:L:238:ILE:O	3:L:257:LEU:HD23	2.08	0.54
3:L:65:THR:OG1	3:L:68:LYS:CG	2.56	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:168:TYR:HD2	4:M:173:LYS:HZ3	1.49	0.54
8:O:225:LEU:O	8:O:230:ARG:HB2	2.08	0.54
9:P:162:ALA:O	9:P:165:ILE:HG12	2.08	0.54
10:Q:242:ILE:CG1	10:Q:243:ASP:H	2.16	0.54
10:Q:82:LYS:CG	10:Q:120:GLU:OE2	2.56	0.54
11:R:289:ALA:CB	11:R:290:PRO:CD	2.84	0.54
15:V:98:MET:HE3	15:V:98:MET:HA	1.89	0.54
17:Y:61:GLU:O	17:Y:65:TYR:N	2.37	0.54
7:1:624:PHE:HE1	7:1:658:ILE:HG21	1.73	0.53
10:4:169:VAL:O	10:4:173:GLU:HB3	2.07	0.53
10:4:96:PHE:CZ	10:4:106:GLU:CD	2.81	0.53
12:6:475:ALA:O	12:6:479:ARG:HD2	2.08	0.53
15:9:237:HIS:C	15:9:237:HIS:HD2	2.11	0.53
16:AA:21:PHE:HZ	16:AA:179:LEU:HD22	1.72	0.53
16:AA:6:THR:HG23	16:AA:108:ARG:HG2	1.90	0.53
12:6:317:PRO:CG	17:AB:7:PRO:CB	2.86	0.53
18:AC:831:VAL:HA	18:AC:877:GLY:HA2	1.89	0.53
1:I:303:ARG:O	1:I:307:ARG:HD3	2.08	0.53
1:I:357:ASP:CG	1:I:358:GLU:H	2.08	0.53
6:K:163:MET:CB	6:K:221:HIS:CE1	2.90	0.53
6:K:236:VAL:O	6:K:236:VAL:HG23	2.08	0.53
3:L:145:LEU:CD2	3:L:149:ILE:CD1	2.86	0.53
3:L:244:SER:HA	3:L:245:GLU:OE2	2.08	0.53
3:L:258:MET:HA	3:L:261:LEU:HD13	1.84	0.53
7:N:326:ILE:HA	7:N:329:LEU:HD12	1.90	0.53
7:N:389:ASN:CB	7:N:392:TRP:HB2	2.38	0.53
7:N:902:PRO:HG2	7:N:905:PRO:HA	1.89	0.53
9:P:425:LEU:HD13	15:V:234:TYR:CE2	2.42	0.53
11:R:304:TYR:CD1	11:R:304:TYR:N	2.76	0.53
12:S:475:ALA:O	12:S:479:ARG:HD2	2.08	0.53
14:U:276:ILE:O	14:U:280:ILE:HG13	2.07	0.53
18:Z:767:GLY:O	18:Z:771:LEU:N	2.41	0.53
4:0:288:LEU:CD2	4:0:342:LEU:HD13	2.15	0.53
4:0:426:GLU:C	4:0:428:GLN:H	2.11	0.53
10:4:49:SER:O	10:4:53:LEU:N	2.42	0.53
11:5:111:LEU:HB2	11:5:120:ALA:HB2	1.89	0.53
11:5:185:GLY:HA3	11:5:201:PHE:CE2	2.42	0.53
14:8:70:LEU:HD11	14:8:111:LEU:HD21	1.88	0.53
15:9:237:HIS:CD2	15:9:238:CYS:N	2.75	0.53
15:9:241:ASN:O	15:9:245:VAL:CG2	2.55	0.53
16:AA:15:TYR:C	16:AA:25:ARG:HD3	2.28	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AA:16:MET:HA	16:AA:25:ARG:HB3	1.90	0.53
18:AC:415:GLY:O	18:AC:419:LEU:N	2.41	0.53
2:H:413:VAL:CG1	2:H:417:ILE:HD12	2.32	0.53
5:J:165:ILE:O	5:J:169:VAL:HG23	2.09	0.53
6:K:167:ILE:CG1	6:K:214:MET:HE2	2.37	0.53
6:K:368:ASP:OD2	6:K:407:ILE:HG12	2.08	0.53
6:K:64:GLU:O	6:K:68:LEU:CG	2.55	0.53
4:M:226:TYR:CD2	4:M:335:VAL:HG21	2.42	0.53
9:P:417:ARG:CG	9:P:418:PRO:CD	2.87	0.53
15:V:96:LEU:HD13	15:V:100:LYS:HZ3	1.73	0.53
18:Z:903:ASN:O	18:Z:906:TYR:N	2.41	0.53
4:0:410:ARG:O	4:0:412:ALA:N	2.41	0.53
7:1:324:LYS:O	7:1:328:ILE:N	2.33	0.53
7:1:546:ARG:HD3	7:1:768:GLN:OE1	2.09	0.53
11:5:304:TYR:HD2	11:5:334:LEU:HD23	1.73	0.53
10:4:397:TYR:CE1	14:8:258:VAL:HG21	2.44	0.53
15:9:282:ARG:O	15:9:286:GLU:HB3	2.09	0.53
2:H:104:ALA:O	2:H:105:ASP:OD1	2.25	0.53
2:H:223:THR:O	2:H:227:ARG:CG	2.43	0.53
2:H:386:ARG:O	2:H:386:ARG:HD2	2.08	0.53
5:J:273:MET:HA	5:J:276:LEU:HD12	1.90	0.53
5:J:235:PHE:CD1	5:J:276:LEU:CD2	2.89	0.53
6:K:155:THR:OG1	6:K:156:SER:N	2.37	0.53
6:K:205:TYR:HE1	6:K:332:GLU:HA	1.68	0.53
3:L:151:LEU:O	3:L:153:LEU:N	2.42	0.53
3:L:215:ILE:CG2	3:L:260:LEU:HD23	2.38	0.53
4:M:265:ALA:HB1	4:M:312:GLU:HG2	1.90	0.53
8:O:342:ASP:CG	8:O:343:LEU:N	2.62	0.53
10:Q:239:TYR:HB3	10:Q:247:ALA:N	2.23	0.53
13:T:155:SER:HA	13:T:158:ARG:CG	2.39	0.53
10:Q:397:TYR:CE1	14:U:258:VAL:HG21	2.44	0.53
14:U:72:HIS:CE1	14:U:111:LEU:HD13	2.35	0.53
15:V:115:HIS:O	15:V:146:ASP:OD1	2.27	0.53
15:V:267:PRO:CD	15:V:268:GLU:N	2.68	0.53
13:T:339:VAL:HG11	15:V:300:LEU:HB2	1.91	0.53
16:W:16:MET:CG	16:W:29:GLN:HE22	2.21	0.53
4:0:294:LYS:HG3	4:0:339:ASP:OD1	2.07	0.53
4:0:225:MET:HG3	4:0:354:PHE:CE2	2.43	0.53
4:0:80:ILE:O	4:0:84:LYS:CA	2.57	0.53
7:1:389:ASN:CB	7:1:392:TRP:HB2	2.38	0.53
7:1:717:ILE:HA	7:1:727:LYS:HG2	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:2:304:VAL:O	8:2:304:VAL:HG23	2.09	0.53
9:3:154:GLU:CG	9:3:162:ALA:HB3	2.38	0.53
9:3:243:ILE:CG1	9:3:247:TYR:CD2	2.89	0.53
10:4:152:GLN:O	10:4:156:GLU:HG2	2.08	0.53
11:5:117:LYS:HB2	11:5:151:TYR:HE2	1.73	0.53
13:7:89:GLN:O	13:7:92:THR:OG1	2.17	0.53
14:8:276:ILE:O	14:8:280:ILE:HG13	2.07	0.53
15:9:118:PHE:CD1	15:9:118:PHE:N	2.76	0.53
18:AC:286:LYS:HA	18:AC:328:SER:O	2.08	0.53
18:AC:699:VAL:CB	18:AC:778:LEU:H	2.22	0.53
18:AC:903:ASN:O	18:AC:906:TYR:N	2.41	0.53
23:F:18:GLU:OE2	4:0:431:LYS:HB2	2.09	0.53
2:H:124:ASP:HB2	4:M:86:LEU:CD1	2.39	0.53
2:H:376:LEU:N	2:H:376:LEU:HD23	2.23	0.53
1:I:116:ILE:HG22	1:I:117:ASP:OD1	2.08	0.53
6:K:277:ALA:O	6:K:278:GLN:HB2	2.07	0.53
6:K:310:ALA:C	6:K:311:THR:CG2	2.76	0.53
6:K:366:ARG:HD2	6:K:403:TYR:CE2	2.36	0.53
3:L:122:MET:CE	3:L:218:MET:HG3	2.39	0.53
3:L:361:PHE:HD1	3:L:361:PHE:H	1.56	0.53
3:L:71:VAL:O	3:L:71:VAL:CG2	2.55	0.53
4:M:231:THR:CG2	4:M:356:MET:HA	2.37	0.53
4:M:410:ARG:O	4:M:412:ALA:N	2.41	0.53
4:M:80:ILE:HG21	4:M:84:LYS:HE3	1.89	0.53
7:N:532:MET:O	7:N:536:ALA:N	2.29	0.53
11:R:268:TYR:HE2	11:R:307:LEU:CB	2.19	0.53
14:U:158:VAL:HG12	14:U:159:THR:O	2.08	0.53
14:U:240:VAL:CB	14:U:242:LEU:HD21	2.38	0.53
7:N:540:GLN:CG	15:V:68:ARG:HH22	2.21	0.53
18:Z:699:VAL:CB	18:Z:778:LEU:H	2.22	0.53
4:0:380:ASN:HB3	4:0:383:GLU:OE1	2.08	0.53
8:2:34:TRP:CB	16:AA:17:ARG:NH1	2.59	0.53
10:4:203:PRO:HG2	10:4:204:PRO:HD3	1.90	0.53
10:4:282:ARG:O	10:4:282:ARG:HG3	2.09	0.53
10:4:320:SER:O	10:4:323:LEU:N	2.35	0.53
11:5:192:ARG:HH11	11:5:192:ARG:HG2	1.74	0.53
11:5:21:GLN:HG3	11:5:286:TRP:CE3	2.35	0.53
11:5:229:ILE:HD11	11:5:295:TYR:CE2	2.36	0.53
11:5:304:TYR:CD1	11:5:304:TYR:N	2.76	0.53
14:8:240:VAL:CB	14:8:242:LEU:HD21	2.38	0.53
16:AA:29:GLN:O	16:AA:33:VAL:HG23	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AC:597:VAL:C	18:AC:599:ALA:H	2.11	0.53
2:H:177:VAL:CB	2:H:184:ILE:HD11	2.39	0.53
1:I:102:LEU:HB3	1:I:136:LEU:HD13	1.89	0.53
1:I:125:THR:OG1	1:I:127:VAL:CG2	2.57	0.53
1:I:414:VAL:HG12	1:I:418:ASP:HB2	1.89	0.53
5:J:347:ILE:CD1	5:J:383:PHE:HB3	2.39	0.53
6:K:272:THR:O	6:K:274:ARG:N	2.42	0.53
3:L:140:GLU:O	3:L:144:GLU:HB2	2.09	0.53
4:M:289:ASP:N	4:M:289:ASP:OD1	2.41	0.53
7:N:616:ARG:NH2	7:N:650:TYR:CD2	2.53	0.53
7:N:661:ALA:HA	7:N:694:ILE:HA	1.91	0.53
8:O:304:VAL:HG23	8:O:304:VAL:O	2.09	0.53
8:O:35:HIS:O	8:O:38:THR:OG1	2.20	0.53
9:P:360:GLU:O	9:P:364:ARG:CB	2.57	0.53
10:Q:193:ALA:CA	10:Q:196:THR:HG22	2.38	0.53
10:Q:203:PRO:HG2	10:Q:204:PRO:HD3	1.90	0.53
10:Q:310:ARG:HA	10:Q:313:LEU:HB2	1.91	0.53
11:R:192:ARG:HG2	11:R:192:ARG:HH11	1.74	0.53
11:R:191:ILE:CG2	11:R:192:ARG:H	2.21	0.53
11:R:77:ASN:HA	11:R:110:TYR:OH	2.08	0.53
14:U:194:GLN:O	14:U:197:GLY:N	2.42	0.53
16:W:6:THR:HG23	16:W:108:ARG:HG2	1.90	0.53
4:O:261:ILE:O	4:O:261:ILE:HG12	2.08	0.53
7:1:10:SER:CB	13:7:170:GLN:HG3	2.39	0.53
7:1:681:ASN:HA	7:1:684:ARG:HG2	1.91	0.53
8:2:245:VAL:N	8:2:276:CYS:SG	2.82	0.53
9:3:317:TRP:CE3	9:3:317:TRP:HA	2.42	0.53
15:9:116:PRO:O	15:9:118:PHE:CD1	2.61	0.53
24:G:237:GLU:O	24:G:239:ARG:N	2.41	0.53
2:H:269:ALA:H	2:H:314:ASN:HB3	1.74	0.53
2:H:283:ALA:HB3	2:H:285:PHE:CE1	2.43	0.53
2:H:272:ILE:HD12	2:H:315:ILE:HG21	1.91	0.53
1:I:118:ASP:O	1:I:120:HIS:N	2.42	0.53
1:I:284:ILE:HG21	1:I:287:ILE:HG22	1.90	0.53
6:K:166:ASP:O	33:K:501:ADP:H2	1.92	0.53
3:L:111:LEU:HB3	3:L:112:PRO:CD	2.39	0.53
3:L:125:GLU:O	3:L:126:ASP:C	2.46	0.53
4:M:314:LEU:HD23	4:M:342:LEU:CD2	2.37	0.53
4:M:80:ILE:O	4:M:84:LYS:CA	2.57	0.53
7:N:717:ILE:HA	7:N:727:LYS:HG2	1.89	0.53
11:R:168:ILE:HG22	11:R:177:ARG:HE	1.72	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:R:304:TYR:HD2	11:R:334:LEU:HD23	1.73	0.53
14:U:275:LEU:HD11	14:U:279:LYS:CD	2.39	0.53
16:W:124:LEU:O	16:W:127:LEU:HB2	2.09	0.53
18:Z:609:VAL:O	18:Z:613:LEU:CB	2.57	0.53
4:0:137:ILE:O	4:0:140:VAL:CG2	2.56	0.53
4:0:289:ASP:N	4:0:289:ASP:OD1	2.41	0.53
7:1:436:ALA:O	7:1:440:GLY:N	2.38	0.53
7:1:745:THR:N	7:1:784:THR:O	2.31	0.53
10:4:106:GLU:O	10:4:110:CYS:SG	2.66	0.53
10:4:103:THR:OG1	10:4:140:THR:HG22	2.09	0.53
11:5:311:TYR:CG	11:5:314:LEU:HD23	2.44	0.53
14:8:158:VAL:HG12	14:8:159:THR:O	2.08	0.53
15:9:160:PHE:HB3	15:9:202:SER:HA	1.91	0.53
15:9:89:PRO:CD	15:9:90:VAL:N	2.71	0.53
2:H:111:TYR:CZ	2:H:134:ILE:HD12	2.42	0.53
2:H:154:PRO:HB2	2:H:155:PRO:CD	2.39	0.53
2:H:299:MET:CE	2:H:328:ASP:CG	2.50	0.53
1:I:123:VAL:O	1:I:130:GLU:HG2	2.08	0.53
1:I:223:ILE:CG1	1:I:347:ILE:CG2	2.47	0.53
1:I:268:ARG:O	1:I:272:ARG:CB	2.57	0.53
1:I:294:ARG:O	1:I:294:ARG:HD2	2.09	0.53
5:J:114:VAL:CB	5:J:126:ILE:HA	2.39	0.53
5:J:235:PHE:CD1	5:J:276:LEU:HD22	2.33	0.53
6:K:207:PRO:CG	6:K:335:LEU:CG	2.83	0.53
6:K:248:ARG:O	6:K:252:ARG:CB	2.55	0.53
3:L:309:ARG:O	3:L:313:LEU:N	2.39	0.53
3:L:327:ASP:O	3:L:331:ILE:HG13	2.09	0.53
6:K:60:TYR:HE1	7:N:607:VAL:HG22	1.73	0.53
9:P:396:LEU:O	9:P:401:THR:N	2.42	0.53
10:Q:48:GLN:O	10:Q:51:LEU:N	2.42	0.53
12:S:374:LYS:O	12:S:378:VAL:HG13	2.08	0.53
13:T:262:ILE:O	13:T:265:ASP:CG	2.47	0.53
13:T:342:TYR:O	13:T:346:LEU:HG	2.08	0.53
8:2:34:TRP:H	16:AA:18:ASN:HD21	1.56	0.53
9:3:396:LEU:O	9:3:401:THR:N	2.42	0.53
9:3:408:ARG:HB3	10:4:345:VAL:HA	1.90	0.53
10:4:239:TYR:HB3	10:4:247:ALA:N	2.23	0.53
10:4:273:GLY:O	10:4:277:LEU:CB	2.47	0.53
20:C:228:TYR:CE2	10:4:83:ALA:HB2	2.44	0.53
11:5:344:HIS:ND1	11:5:359:PRO:HB3	2.24	0.53
11:5:366:TYR:O	11:5:369:THR:HG22	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:6:265:ASP:OD1	12:6:266:GLN:N	2.40	0.53
14:8:194:GLN:O	14:8:197:GLY:N	2.42	0.53
14:8:201:LEU:HD21	15:9:309:PHE:HE1	1.72	0.53
16:AA:12:ASN:CG	16:AA:80:PRO:HA	2.28	0.53
18:AC:234:THR:O	18:AC:237:VAL:N	2.41	0.53
2:H:182:GLU:HB2	2:H:183:GLN:OE1	2.09	0.53
2:H:215:PHE:HB3	2:H:324:PRO:HB3	1.90	0.53
1:I:198:LYS:HA	1:I:202:GLU:HB3	1.90	0.53
1:I:218:PRO:CG	1:I:326:LYS:HZ1	2.22	0.53
5:J:173:GLU:O	5:J:177:ALA:N	2.41	0.53
5:J:356:GLY:O	33:J:501:ADP:H1'	2.09	0.53
6:K:394:VAL:HG11	6:K:398:ASP:HB3	1.87	0.53
3:L:200:SER:O	3:L:237:ALA:HB3	2.09	0.53
3:L:336:ASP:C	3:L:338:PHE:H	2.12	0.53
7:N:657:GLY:HA2	7:N:694:ILE:HD11	1.89	0.53
7:N:745:THR:N	7:N:784:THR:O	2.31	0.53
9:P:199:TYR:CG	9:P:200:ILE:N	2.77	0.53
10:Q:225:TRP:CD1	10:Q:257:CYS:HA	2.44	0.53
10:Q:260:MET:CE	10:Q:322:HIS:HD2	2.21	0.53
12:S:161:PRO:O	12:S:164:GLU:N	2.41	0.53
12:S:169:LEU:CD1	12:S:206:VAL:CG2	2.79	0.53
12:S:320:THR:O	12:S:322:VAL:HG23	2.08	0.53
14:U:224:HIS:HB3	14:U:228:TYR:HE1	1.73	0.53
16:W:161:ASN:ND2	16:W:168:SER:O	2.42	0.53
4:O:217:ILE:CG1	4:O:218:GLN:H	2.14	0.53
4:O:399:VAL:N	4:O:427:VAL:CG2	2.67	0.53
10:4:225:TRP:CZ2	10:4:322:HIS:NE2	2.67	0.53
11:5:286:TRP:NE1	11:5:287:LEU:HD13	2.24	0.53
11:5:286:TRP:CD1	11:5:287:LEU:N	2.77	0.53
11:5:321:GLU:CG	11:5:322:ALA:N	2.72	0.53
13:7:198:PHE:O	13:7:201:SER:OG	2.15	0.53
14:8:116:CYS:SG	14:8:117:PRO:CD	2.97	0.53
14:8:138:TYR:HD1	14:8:157:HIS:HA	1.72	0.53
18:AC:536:SER:O	18:AC:540:GLN:N	2.41	0.53
2:H:109:PRO:CG	2:H:110:LYS:H	2.22	0.53
2:H:302:LEU:O	2:H:306:LEU:CB	2.47	0.53
1:I:218:PRO:CB	1:I:326:LYS:NZ	2.72	0.53
5:J:104:ASP:HB2	5:J:107:ASP:H	1.73	0.53
5:J:88:LYS:HG3	5:J:93:GLY:C	2.29	0.53
3:L:77:PRO:CB	6:K:106:THR:OG1	2.54	0.53
3:L:171:LEU:HA	3:L:277:MET:O	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:N:596:ASN:O	7:N:600:ARG:N	2.24	0.53
7:N:711:GLN:O	7:N:715:LYS:CG	2.56	0.53
8:O:213:PHE:CE2	8:O:240:PHE:CG	2.97	0.53
9:P:154:GLU:CG	9:P:162:ALA:HB3	2.38	0.53
8:O:327:VAL:CG2	9:P:412:ILE:HG12	2.37	0.53
10:Q:245:PRO:CD	10:Q:246:LYS:H	2.22	0.53
11:R:228:MET:HE3	11:R:263:LEU:CD2	2.34	0.53
11:R:234:PRO:CD	11:R:235:ASP:N	2.71	0.53
14:U:30:GLY:HA3	14:U:127:LYS:NZ	2.24	0.53
15:V:207:TYR:CE2	15:V:209:LYS:HD2	2.44	0.53
10:Q:417:LYS:HG2	15:V:263:ASP:OD2	2.08	0.53
16:W:16:MET:HA	16:W:25:ARG:HB3	1.90	0.53
7:I:661:ALA:HA	7:I:694:ILE:HA	1.91	0.53
10:4:190:LEU:HD21	10:4:214:SER:OG	2.08	0.53
10:4:242:ILE:CG1	10:4:243:ASP:H	2.16	0.53
13:7:207:GLU:O	13:7:211:GLU:HG2	2.09	0.53
14:8:94:TRP:CE2	14:8:109:ASN:OD1	2.59	0.53
14:8:240:VAL:C	14:8:242:LEU:N	2.62	0.53
13:7:339:VAL:HG11	15:9:300:LEU:HB2	1.91	0.53
16:AA:19:GLY:HA2	16:AA:24:THR:HA	1.91	0.53
16:AA:51:LEU:HG	16:AA:61:LEU:HB2	1.90	0.53
2:H:407:LYS:HA	2:H:410:LEU:HB2	1.91	0.53
1:I:151:LEU:HB3	1:I:160:ILE:HB	1.90	0.53
1:I:204:PRO:O	1:I:208:PRO:CG	2.56	0.53
1:I:306:GLN:O	1:I:309:MET:HB2	2.09	0.53
1:I:287:ILE:HD13	1:I:337:LEU:HD21	1.91	0.53
5:J:104:ASP:CG	5:J:107:ASP:OD2	2.47	0.53
5:J:284:GLU:O	5:J:285:ALA:HB3	2.09	0.53
3:L:56:ILE:HD11	4:M:132:TYR:CE1	2.44	0.53
4:M:137:ILE:O	4:M:140:VAL:CG2	2.56	0.53
4:M:194:GLN:O	4:M:198:LEU:N	2.27	0.53
4:M:294:LYS:HG3	4:M:339:ASP:OD1	2.07	0.53
4:M:81:LYS:O	4:M:85:THR:HG23	2.09	0.53
7:N:148:LYS:HE2	7:N:179:TYR:HB3	1.92	0.53
9:P:128:LEU:O	9:P:132:THR:HG23	2.09	0.53
9:P:384:LEU:CD1	9:P:388:GLU:HB3	2.36	0.53
9:P:78:LYS:CA	9:P:79:GLU:HB3	2.39	0.53
13:T:160:ASP:O	13:T:163:SER:OG	2.09	0.53
13:T:207:GLU:O	13:T:211:GLU:HG2	2.09	0.53
14:U:240:VAL:C	14:U:242:LEU:N	2.62	0.53
16:W:19:GLY:HA2	16:W:24:THR:HA	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:Z:519:ALA:O	18:Z:523:GLY:N	2.40	0.53
18:Z:833:PHE:O	18:Z:900:LEU:N	2.36	0.53
4:0:311:LEU:HD23	4:0:314:LEU:HD12	1.90	0.52
4:0:323:ASN:HD22	4:0:323:ASN:N	2.07	0.52
7:1:326:ILE:HA	7:1:329:LEU:HD12	1.90	0.52
8:2:225:LEU:O	8:2:230:ARG:HB2	2.08	0.52
8:2:213:PHE:CE2	8:2:240:PHE:CG	2.97	0.52
9:3:143:ALA:O	9:3:146:THR:OG1	2.21	0.52
9:3:373:ILE:CG2	9:3:415:PHE:CE2	2.90	0.52
9:3:417:ARG:CG	9:3:418:PRO:CD	2.87	0.52
12:6:161:PRO:O	12:6:164:GLU:N	2.41	0.52
12:6:374:LYS:O	12:6:378:VAL:HG23	2.08	0.52
14:8:175:LEU:C	14:8:177:ARG:H	2.12	0.52
15:9:96:LEU:HD13	15:9:100:LYS:HZ3	1.71	0.52
15:9:97:ASP:OD1	15:9:98:MET:N	2.41	0.52
16:AA:161:ASN:ND2	16:AA:168:SER:O	2.42	0.52
18:AC:296:PHE:O	18:AC:300:ARG:N	2.34	0.52
1:I:310:LEU:HG	2:H:276:GLU:HG2	1.91	0.52
1:I:107:MET:HE1	1:I:160:ILE:CB	2.34	0.52
5:J:291:VAL:CG2	5:J:291:VAL:O	2.57	0.52
6:K:310:ALA:O	6:K:311:THR:HG22	2.09	0.52
4:M:136:VAL:O	4:M:137:ILE:C	2.48	0.52
4:M:80:ILE:HG21	4:M:84:LYS:NZ	2.24	0.52
7:N:530:GLU:O	7:N:534:GLY:N	2.26	0.52
10:Q:242:ILE:HG23	10:Q:243:ASP:N	2.23	0.52
10:Q:259:ILE:HG22	10:Q:326:LEU:CD1	2.39	0.52
10:Q:282:ARG:O	10:Q:282:ARG:HG3	2.09	0.52
11:R:286:TRP:CD1	11:R:287:LEU:N	2.77	0.52
14:U:96:HIS:CE1	14:U:100:LYS:O	2.62	0.52
14:U:175:LEU:C	14:U:177:ARG:H	2.12	0.52
15:V:255:TYR:HA	15:V:280:PRO:CG	2.35	0.52
16:W:39:SER:O	16:W:43:SER:N	2.40	0.52
4:0:169:ASP:HB2	4:0:172:VAL:HG21	1.87	0.52
9:3:149:LEU:O	9:3:153:LYS:HB3	2.09	0.52
10:4:193:ALA:HA	10:4:196:THR:CG2	2.39	0.52
10:4:258:LYS:HE3	10:4:266:ASP:CG	2.29	0.52
10:4:310:ARG:HA	10:4:313:LEU:HB2	1.91	0.52
12:6:348:PHE:CZ	12:6:361:PHE:HA	2.40	0.52
13:7:155:SER:HA	13:7:158:ARG:CG	2.39	0.52
14:8:30:GLY:HA3	14:8:127:LYS:NZ	2.24	0.52
2:H:160:THR:O	2:H:164:MET:CE	2.58	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:299:MET:O	2:H:303:ILE:HG13	2.08	0.52
2:H:307:ASP:HB2	2:H:336:ARG:HG3	1.90	0.52
2:H:355:PHE:CD1	2:H:385:ILE:HG21	2.40	0.52
1:I:132:TYR:OH	2:H:153:LEU:HD13	2.10	0.52
1:I:166:ASP:OD1	5:J:78:ARG:NH2	2.42	0.52
1:I:225:TYR:CA	1:I:331:THR:O	2.52	0.52
1:I:417:GLU:HA	1:I:420:LYS:HB2	1.91	0.52
6:K:146:GLU:O	6:K:147:ALA:HB3	2.09	0.52
3:L:70:ILE:HG23	6:K:89:ILE:HD13	1.90	0.52
3:L:100:LEU:HD23	3:L:107:ILE:HA	1.90	0.52
3:L:132:TYR:CD1	3:L:133:SER:N	2.77	0.52
3:L:150:GLU:O	3:L:153:LEU:CD2	2.57	0.52
3:L:65:THR:OG1	3:L:68:LYS:CB	2.57	0.52
4:M:249:LEU:HB3	4:M:283:ILE:CA	2.35	0.52
7:N:616:ARG:NH2	7:N:647:HIS:CD2	2.78	0.52
7:N:681:ASN:HA	7:N:684:ARG:HG2	1.91	0.52
8:O:157:ASP:O	8:O:160:SER:OG	2.27	0.52
9:P:408:ARG:HB3	10:Q:345:VAL:HA	1.90	0.52
13:T:138:LYS:O	13:T:141:LEU:HG	2.10	0.52
14:U:94:TRP:HZ2	14:U:109:ASN:ND2	2.07	0.52
4:O:183:GLU:C	4:O:184:GLN:O	2.47	0.52
4:O:80:ILE:HG21	4:O:84:LYS:NZ	2.24	0.52
7:1:470:ASN:N	7:1:474:ARG:HB3	2.24	0.52
7:1:616:ARG:NH2	7:1:647:HIS:CD2	2.78	0.52
9:3:125:ILE:O	9:3:129:ARG:HB2	2.09	0.52
9:3:162:ALA:O	9:3:165:ILE:HG12	2.08	0.52
9:3:199:TYR:CG	9:3:200:ILE:N	2.77	0.52
9:3:74:CYS:O	9:3:78:LYS:CB	2.48	0.52
9:3:78:LYS:CA	9:3:79:GLU:HB3	2.39	0.52
11:5:227:SER:HB2	11:5:231:LEU:HD12	1.91	0.52
14:8:275:LEU:HD11	14:8:279:LYS:CD	2.39	0.52
15:9:115:HIS:O	15:9:146:ASP:OD1	2.27	0.52
18:AC:609:VAL:O	18:AC:613:LEU:CB	2.57	0.52
1:I:369:THR:CG2	1:I:374:LEU:CD1	2.86	0.52
1:I:164:MET:CE	5:J:78:ARG:HH12	2.22	0.52
6:K:214:MET:SD	33:K:501:ADP:C2'	2.97	0.52
3:L:148:VAL:HG13	3:L:149:ILE:HG13	1.91	0.52
3:L:195:PHE:CZ	3:L:229:ILE:HG13	2.38	0.52
3:L:199:VAL:HG12	3:L:233:ASP:HB3	1.90	0.52
3:L:243:PHE:HB3	3:L:245:GLU:HA	1.91	0.52
3:L:255:ARG:O	3:L:259:GLU:N	2.36	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:226:GLN:NE2	3:L:271:HIS:O	2.42	0.52
3:L:65:THR:OG1	3:L:68:LYS:HG3	2.10	0.52
4:M:402:GLU:OE1	4:M:427:VAL:HG23	2.05	0.52
7:N:109:THR:O	7:N:113:VAL:N	2.36	0.52
7:N:612:ASP:HB3	7:N:647:HIS:HB2	1.91	0.52
8:O:245:VAL:N	8:O:276:CYS:SG	2.82	0.52
9:P:163:ALA:HA	9:P:166:LEU:HG	1.91	0.52
10:Q:122:ARG:C	10:Q:124:PHE:H	2.13	0.52
10:Q:103:THR:OG1	10:Q:140:THR:HG22	2.09	0.52
11:R:286:TRP:NE1	11:R:287:LEU:HD13	2.24	0.52
15:V:282:ARG:O	15:V:286:GLU:HB3	2.09	0.52
7:1:31:VAL:HG21	7:1:63:VAL:HG12	1.92	0.52
8:2:278:MET:SD	8:2:319:LEU:HB3	2.50	0.52
9:3:206:SER:O	9:3:209:ILE:HG22	2.09	0.52
9:3:405:LYS:O	9:3:414:ASN:HB3	2.10	0.52
9:3:48:LEU:CD2	9:3:90:LEU:HG	2.40	0.52
10:4:82:LYS:CG	10:4:120:GLU:OE2	2.56	0.52
10:4:137:TYR:CE2	10:4:145:GLU:OE1	2.63	0.52
10:4:242:ILE:HG23	10:4:243:ASP:N	2.23	0.52
10:4:259:ILE:HG22	10:4:326:LEU:CD1	2.39	0.52
10:4:332:GLU:OE1	10:4:364:LYS:NZ	2.43	0.52
11:5:30:GLU:CA	11:5:31:HIS:CG	2.90	0.52
12:6:298:ILE:HG21	13:7:213:GLU:CB	2.38	0.52
14:8:34:ARG:NH2	14:8:102:HIS:CD2	2.73	0.52
15:9:248:MET:HE3	15:9:284:LEU:O	2.08	0.52
20:C:52:LYS:C	20:C:53:SER:OG	2.48	0.52
23:F:182:GLN:HA	24:G:56:LEU:HD11	1.90	0.52
6:K:102:ILE:HA	6:K:111:TYR:O	2.10	0.52
6:K:283:ARG:O	6:K:287:ARG:CG	2.55	0.52
6:K:248:ARG:HA	6:K:295:GLN:OE1	2.09	0.52
6:K:372:GLY:CA	33:K:501:ADP:H8	2.19	0.52
6:K:85:ILE:HG22	15:V:148:ILE:HD13	1.90	0.52
6:K:92:PHE:HE1	6:K:101:ALA:HB1	1.73	0.52
3:L:132:TYR:CD1	3:L:132:TYR:N	2.77	0.52
3:L:149:ILE:O	3:L:153:LEU:CD2	2.58	0.52
3:L:153:LEU:C	3:L:156:PRO:CD	2.77	0.52
3:L:205:ASP:CG	3:L:210:GLU:HG2	2.28	0.52
3:L:251:ARG:O	3:L:255:ARG:CG	2.57	0.52
3:L:327:ASP:OD1	3:L:330:ALA:N	2.41	0.52
4:M:91:SER:HB3	4:M:126:THR:HA	1.92	0.52
7:N:178:ALA:HA	7:N:181:LEU:HB3	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:P:206:SER:O	9:P:209:ILE:HG22	2.09	0.52
9:P:68:VAL:C	9:P:71:VAL:HG22	2.30	0.52
10:Q:163:LYS:CD	10:Q:200:ILE:CG2	2.61	0.52
10:Q:243:ASP:CB	10:Q:245:PRO:HD3	2.39	0.52
11:R:111:LEU:HB2	11:R:120:ALA:HB2	1.89	0.52
5:J:334:ARG:O	11:R:173:ASP:CB	2.57	0.52
11:R:304:TYR:N	11:R:304:TYR:HD1	2.08	0.52
14:U:116:CYS:SG	14:U:117:PRO:CD	2.97	0.52
4:O:378:ASP:O	4:O:379:VAL:HG23	2.10	0.52
4:O:91:SER:HB3	4:O:126:THR:HA	1.92	0.52
8:2:341:LEU:HB2	8:2:345:GLN:HB2	1.91	0.52
8:2:342:ASP:CG	8:2:343:LEU:N	2.62	0.52
9:3:163:ALA:HA	9:3:166:LEU:HG	1.91	0.52
9:3:201:ARG:O	9:3:205:ILE:CB	2.58	0.52
9:3:246:HIS:O	9:3:249:ALA:N	2.42	0.52
9:3:63:THR:OG1	9:3:102:ALA:CB	2.58	0.52
10:4:135:SER:HB2	10:4:172:LEU:CD2	2.35	0.52
10:4:203:PRO:CG	10:4:204:PRO:HD3	2.40	0.52
10:4:225:TRP:CD1	10:4:257:CYS:HA	2.44	0.52
10:4:258:LYS:CE	10:4:266:ASP:HB2	2.38	0.52
23:F:17:PRO:HA	24:G:24:TYR:CG	2.45	0.52
2:H:284:ARG:CG	2:H:296:GLN:OE1	2.58	0.52
1:I:178:LYS:HB2	5:J:285:ALA:HB2	1.90	0.52
1:I:423:LYS:O	1:I:427:LEU:HB2	2.09	0.52
1:I:392:GLY:C	33:I:501:ADP:N7	2.63	0.52
5:J:214:VAL:HG22	5:J:234:LEU:CD1	2.40	0.52
3:L:269:THR:O	3:L:270:LEU:C	2.48	0.52
3:L:370:ALA:O	3:L:374:VAL:HG23	2.10	0.52
7:N:213:PHE:O	7:N:217:CYS:N	2.30	0.52
7:N:546:ARG:HD3	7:N:768:GLN:OE1	2.09	0.52
7:N:31:VAL:HG21	7:N:63:VAL:HG22	1.92	0.52
9:P:125:ILE:O	9:P:129:ARG:HB2	2.09	0.52
15:V:212:LEU:O	15:V:215:LYS:N	2.43	0.52
18:Z:536:SER:O	18:Z:540:GLN:N	2.41	0.52
4:O:215:LEU:HD22	4:O:217:ILE:CG2	2.26	0.52
9:3:373:ILE:HG21	9:3:415:PHE:HE2	1.72	0.52
10:4:120:GLU:O	10:4:121:LYS:CB	2.58	0.52
10:4:167:VAL:HG22	10:4:196:THR:CG2	2.40	0.52
10:4:243:ASP:CB	10:4:245:PRO:HD3	2.39	0.52
7:1:10:SER:CB	13:7:170:GLN:NE2	2.73	0.52
14:8:224:HIS:HB3	14:8:228:TYR:HE1	1.73	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:4:417:LYS:HG2	15:9:263:ASP:OD2	2.08	0.52
16:AA:124:LEU:O	16:AA:127:LEU:HB2	2.09	0.52
22:E:79:ASP:OD2	22:E:125:ARG:NH2	2.41	0.52
1:I:228:PRO:HB2	5:J:307:ARG:HD3	1.90	0.52
5:J:130:LYS:O	5:J:131:VAL:HB	2.09	0.52
5:J:326:LEU:CD1	5:J:345:ARG:HG3	2.39	0.52
5:J:41:ASN:HA	5:J:44:ARG:CB	2.39	0.52
6:K:71:GLU:OE2	6:K:74:HIS:HD2	1.93	0.52
4:M:378:ASP:O	4:M:379:VAL:HG23	2.10	0.52
9:P:74:CYS:O	9:P:78:LYS:CB	2.48	0.52
10:Q:137:TYR:CE2	10:Q:145:GLU:OE1	2.63	0.52
10:Q:49:SER:O	10:Q:53:LEU:N	2.42	0.52
13:T:251:ILE:C	13:T:253:ALA:H	2.13	0.52
16:W:54:LEU:O	16:W:58:CYS:N	2.43	0.52
4:0:265:ALA:HB1	4:0:312:GLU:HG2	1.90	0.52
7:1:148:LYS:HE2	7:1:179:TYR:HB3	1.92	0.52
7:1:360:VAL:CB	7:1:727:LYS:NZ	2.73	0.52
7:1:442:GLY:HA2	7:1:445:ALA:HB3	1.91	0.52
7:1:622:LEU:O	7:1:626:LEU:N	2.38	0.52
8:2:240:PHE:CG	8:2:275:LEU:CD1	2.93	0.52
11:5:108:ALA:HB3	11:5:124:PHE:CE1	2.45	0.52
23:F:96:THR:HA	23:F:107:MET:HG3	1.91	0.52
2:H:124:ASP:OD1	2:H:125:LEU:N	2.39	0.52
2:H:284:ARG:CB	2:H:296:GLN:OE1	2.57	0.52
1:I:240:ALA:HA	1:I:243:THR:CG2	2.40	0.52
1:I:390:LEU:HD11	1:I:395:ILE:HG12	1.90	0.52
1:I:234:LEU:HD11	33:I:501:ADP:H2'	1.91	0.52
5:J:161:ILE:O	5:J:165:ILE:N	2.43	0.52
5:J:86:LEU:HA	5:J:96:VAL:HA	1.92	0.52
6:K:230:VAL:HG21	6:K:250:VAL:HG21	1.90	0.52
6:K:70:LYS:HA	6:K:73:LEU:HD11	1.91	0.52
3:L:257:LEU:CD1	3:L:261:LEU:HD11	2.39	0.52
3:L:56:ILE:HD11	4:M:132:TYR:HE1	1.73	0.52
4:M:252:ALA:HB1	4:M:254:PRO:HD2	1.92	0.52
2:H:334:PRO:HG2	4:M:394:ALA:HB1	1.91	0.52
7:N:341:PHE:HE1	7:N:882:ALA:N	2.08	0.52
7:N:354:LYS:O	7:N:358:ASP:CG	2.48	0.52
8:O:278:MET:SD	8:O:319:LEU:HB3	2.50	0.52
9:P:201:ARG:O	9:P:205:ILE:CB	2.58	0.52
9:P:48:LEU:CD2	9:P:90:LEU:HG	2.40	0.52
10:Q:120:GLU:O	10:Q:121:LYS:CB	2.58	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:R:136:HIS:O	11:R:140:ILE:CB	2.58	0.52
11:R:321:GLU:CG	11:R:322:ALA:N	2.72	0.52
12:S:299:GLN:O	12:S:300:LEU:CB	2.58	0.52
16:W:68:THR:O	16:W:71:ILE:N	2.43	0.52
7:1:160:LEU:O	7:1:163:PHE:C	2.48	0.52
7:1:355:ASN:O	7:1:359:ALA:HB2	2.10	0.52
7:1:457:ILE:HA	7:1:460:TYR:HB3	1.92	0.52
10:4:48:GLN:O	10:4:51:LEU:N	2.42	0.52
15:9:248:MET:CE	15:9:288:VAL:HG23	2.40	0.52
16:AA:68:THR:O	16:AA:71:ILE:N	2.43	0.52
23:F:17:PRO:HG3	24:G:24:TYR:CE2	2.45	0.52
24:G:121:GLN:O	25:X:128:VAL:HA	2.10	0.52
2:H:215:PHE:CB	2:H:324:PRO:HG3	2.39	0.52
1:I:203:LEU:CB	1:I:204:PRO:CD	2.88	0.52
1:I:227:PRO:HG2	1:I:355:LEU:CD2	2.34	0.52
5:J:150:MET:HG3	5:J:150:MET:O	2.09	0.52
5:J:235:PHE:HZ	5:J:280:LEU:HD21	1.75	0.52
5:J:189:TYR:CE2	5:J:316:GLU:HB3	2.32	0.52
6:K:100:THR:HG22	6:K:101:ALA:H	1.75	0.52
6:K:251:PHE:HD2	6:K:295:GLN:OE1	1.92	0.52
7:N:10:SER:CB	13:T:170:GLN:NE2	2.73	0.52
7:N:624:PHE:HE1	7:N:658:ILE:HG21	1.73	0.52
9:P:405:LYS:O	9:P:414:ASN:HB3	2.10	0.52
10:Q:319:ILE:O	10:Q:322:HIS:HB2	2.10	0.52
10:Q:297:ARG:CD	10:Q:333:GLN:HB3	2.38	0.52
12:S:175:MET:HB3	12:S:184:ALA:CB	2.40	0.52
12:S:224:LEU:O	12:S:228:ARG:CB	2.54	0.52
16:W:144:GLY:HA3	16:W:148:VAL:HG23	1.91	0.52
16:W:54:LEU:HA	16:W:58:CYS:CA	2.40	0.52
4:0:215:LEU:CD2	4:0:217:ILE:HG22	2.36	0.52
4:0:249:LEU:CB	4:0:283:ILE:HA	2.35	0.52
7:1:354:LYS:O	7:1:358:ASP:CG	2.48	0.52
8:2:327:VAL:CG2	9:3:412:ILE:HG12	2.37	0.52
10:4:239:TYR:HA	10:4:242:ILE:HG21	1.90	0.52
10:4:351:SER:OG	10:4:356:LEU:O	2.21	0.52
11:5:289:ALA:CB	11:5:290:PRO:CD	2.84	0.52
13:7:271:ILE:O	13:7:274:CYS:HB2	2.10	0.52
8:2:374:ILE:HD12	13:7:347:GLU:CD	2.30	0.52
14:8:74:TYR:HD1	15:9:98:MET:HE1	1.75	0.52
18:AC:227:ALA:C	18:AC:229:VAL:N	2.63	0.52
22:E:94:HIS:ND1	22:E:101:PRO:O	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:E:184:ASP:N	22:E:184:ASP:OD1	2.42	0.52
1:I:107:MET:CE	1:I:160:ILE:CB	2.88	0.52
1:I:106:PRO:CG	5:J:121:TYR:HB3	2.33	0.52
5:J:168:PRO:O	5:J:172:PRO:HG3	2.10	0.52
5:J:300:ILE:HG13	5:J:301:LEU:H	1.73	0.52
5:J:365:GLU:HA	5:J:368:MET:HB3	1.92	0.52
6:K:130:VAL:C	6:K:143:LEU:HD23	2.30	0.52
6:K:296:MET:CE	6:K:326:ARG:O	2.57	0.52
5:J:128:PRO:HD3	6:K:96:VAL:HG13	1.91	0.52
3:L:338:PHE:CE1	3:L:375:ALA:CA	2.91	0.52
3:L:365:GLU:C	3:L:367:PHE:H	2.13	0.52
4:M:323:ASN:N	4:M:323:ASN:HD22	2.07	0.52
7:N:452:ASN:H	7:N:484:ALA:HA	1.75	0.52
7:N:533:VAL:O	7:N:536:ALA:HB3	2.10	0.52
8:O:341:LEU:HB2	8:O:345:GLN:HB2	1.91	0.52
9:P:246:HIS:O	9:P:249:ALA:N	2.42	0.52
10:Q:258:LYS:HE3	10:Q:266:ASP:CG	2.29	0.52
10:Q:248:ILE:HG21	10:Q:283:GLN:OE1	2.08	0.52
11:R:311:TYR:CG	11:R:314:LEU:HD23	2.44	0.52
12:S:265:ASP:HA	12:S:268:GLU:CG	2.40	0.52
18:Z:227:ALA:C	18:Z:229:VAL:N	2.63	0.52
18:Z:529:SER:N	18:Z:565:ASN:O	2.36	0.52
7:1:12:LEU:HD22	7:1:41:SER:HB3	1.91	0.52
7:1:51:ASP:O	7:1:57:ARG:HD3	2.10	0.52
7:1:738:ASP:HA	7:1:742:HIS:HB3	1.92	0.52
8:2:149:THR:C	8:2:151:VAL:H	2.14	0.52
9:3:186:ILE:HG23	9:3:208:LYS:NZ	2.25	0.52
9:3:317:TRP:CH2	9:3:351:TRP:CZ3	2.96	0.52
11:5:146:ARG:HH12	11:5:213:LEU:CD1	2.10	0.52
11:5:24:PHE:O	11:5:27:SER:OG	2.17	0.52
13:7:251:ILE:C	13:7:253:ALA:H	2.13	0.52
13:7:259:PHE:O	13:7:262:ILE:HB	2.10	0.52
13:7:340:ILE:O	13:7:344:ARG:N	2.39	0.52
14:8:101:LEU:O	14:8:102:HIS:CE1	2.63	0.52
14:8:174:HIS:ND1	14:8:174:HIS:O	2.43	0.52
16:AA:112:PHE:HA	16:AA:141:ILE:HB	1.92	0.52
19:B:96:TYR:CE1	19:B:100:ASN:OD1	2.61	0.52
19:B:6:SER:HB2	19:B:11:ARG:NH1	2.25	0.52
1:I:204:PRO:CG	1:I:211:TYR:CE2	2.92	0.52
1:I:189:GLY:HA2	1:I:360:THR:HG22	1.92	0.52
5:J:24:TYR:O	5:J:25:LEU:O	2.27	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:K:115:ILE:HD12	6:K:121:ARG:HH11	1.64	0.52
6:K:395:LEU:O	6:K:398:ASP:HB2	2.09	0.52
6:K:93:LEU:CG	6:K:94:GLU:N	2.73	0.52
3:L:65:THR:HG23	3:L:68:LYS:HD2	1.92	0.52
3:L:78:ARG:HB2	6:K:106:THR:HG21	1.92	0.52
4:M:183:GLU:C	4:M:184:GLN:O	2.47	0.52
4:M:300:LYS:O	4:M:301:ALA:HB2	2.09	0.52
4:M:376:SER:CB	4:M:377:PRO:CD	2.71	0.52
7:N:234:GLU:O	7:N:238:LYS:N	2.27	0.52
7:N:381:THR:HA	7:N:411:ILE:HG22	1.92	0.52
7:N:415:HIS:HB3	7:N:418:GLU:OE1	2.10	0.52
7:N:457:ILE:HA	7:N:460:TYR:HB3	1.92	0.52
7:N:51:ASP:O	7:N:57:ARG:HD3	2.10	0.52
9:P:149:LEU:O	9:P:153:LYS:HB3	2.09	0.52
9:P:186:ILE:HG23	9:P:208:LYS:NZ	2.25	0.52
10:Q:66:LEU:CB	10:Q:109:LEU:HD13	2.40	0.52
10:Q:200:ILE:O	10:Q:201:TYR:O	2.28	0.52
13:T:230:VAL:O	13:T:233:GLU:N	2.42	0.52
13:T:259:PHE:O	13:T:262:ILE:HB	2.10	0.52
14:U:17:LEU:HD12	15:V:39:LEU:CD1	2.38	0.52
16:W:148:VAL:O	16:W:153:LEU:HD12	2.09	0.52
16:W:142:ASN:ND2	16:W:172:THR:HG23	2.24	0.52
4:0:282:ILE:CG2	4:0:329:ILE:HD12	2.40	0.51
7:1:213:PHE:O	7:1:217:CYS:N	2.30	0.51
9:3:304:ASP:CB	9:3:324:TYR:OH	2.58	0.51
10:4:96:PHE:CD1	10:4:106:GLU:OE2	2.62	0.51
10:4:10:GLN:O	10:4:14:SER:N	2.29	0.51
10:4:122:ARG:C	10:4:124:PHE:H	2.13	0.51
10:4:238:GLY:O	10:4:242:ILE:CG2	2.58	0.51
11:5:161:THR:O	11:5:165:LYS:HB2	2.10	0.51
15:9:254:ASN:HB3	15:9:280:PRO:HG3	1.93	0.51
18:AC:833:PHE:O	18:AC:900:LEU:N	2.36	0.51
19:B:15:ILE:HD12	20:C:20:GLN:NE2	2.25	0.51
2:H:275:ASP:HA	2:H:320:ALA:HB3	1.92	0.51
1:I:402:ALA:CB	1:I:414:VAL:HG11	2.22	0.51
5:J:247:PHE:HA	5:J:292:ILE:O	2.10	0.51
5:J:184:LYS:CE	5:J:281:ASP:OD1	2.57	0.51
5:J:283:PHE:O	5:J:284:GLU:HB3	2.10	0.51
6:K:105:SER:HB3	6:K:109:SER:OG	2.10	0.51
6:K:160:PRO:CD	6:K:220:ALA:CB	2.87	0.51
6:K:70:LYS:HE2	14:U:182:THR:HG21	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:K:93:LEU:CD2	6:K:102:ILE:CG2	2.87	0.51
3:L:255:ARG:O	3:L:258:MET:N	2.41	0.51
3:L:50:LEU:HD13	4:M:82:VAL:CG2	2.35	0.51
4:M:282:ILE:CG2	4:M:329:ILE:HD12	2.40	0.51
4:M:87:PRO:CB	4:M:155:LYS:CE	2.73	0.51
7:N:360:VAL:CB	7:N:727:LYS:NZ	2.73	0.51
7:N:495:ASP:O	7:N:498:LYS:N	2.43	0.51
7:N:535:TYR:HA	7:N:538:GLU:HB3	1.93	0.51
10:Q:93:LEU:HD11	10:Q:129:LEU:HD11	1.90	0.51
10:Q:203:PRO:CG	10:Q:204:PRO:HD3	2.40	0.51
25:X:74:GLY:HA3	25:X:224:HIS:CD2	2.45	0.51
4:O:168:TYR:HD2	4:O:173:LYS:NZ	2.09	0.51
4:O:300:LYS:O	4:O:301:ALA:HB2	2.09	0.51
4:O:423:GLY:O	4:O:427:VAL:N	2.23	0.51
4:O:81:LYS:O	4:O:85:THR:HG23	2.09	0.51
7:1:360:VAL:CG1	7:1:361:ARG:H	2.20	0.51
9:3:128:LEU:O	9:3:132:THR:HG23	2.09	0.51
10:4:358:LYS:O	10:4:361:VAL:N	2.44	0.51
14:8:94:TRP:HZ2	14:8:109:ASN:ND2	2.07	0.51
15:9:130:GLN:HG3	15:9:162:LEU:HD23	1.93	0.51
15:9:212:LEU:O	15:9:215:LYS:N	2.43	0.51
15:9:254:ASN:HB3	15:9:280:PRO:CB	2.40	0.51
16:AA:171:VAL:CB	16:AA:186:SER:CB	2.88	0.51
21:D:62:SER:OG	21:D:63:GLU:N	2.41	0.51
2:H:126:SER:CA	2:H:149:ILE:O	2.59	0.51
2:H:299:MET:HG2	2:H:303:ILE:CD1	2.40	0.51
1:I:102:LEU:HD13	2:H:87:LEU:CD1	2.11	0.51
5:J:231:VAL:HG12	5:J:231:VAL:O	2.10	0.51
5:J:211:PHE:CE1	5:J:247:PHE:HB2	2.45	0.51
5:J:195:GLY:N	33:J:501:ADP:C8	2.78	0.51
6:K:179:GLU:O	6:K:184:PRO:HG3	2.10	0.51
6:K:258:ALA:O	6:K:260:ALA:N	2.43	0.51
6:K:368:ASP:O	6:K:369:LYS:HB2	2.09	0.51
4:M:284:PHE:HD1	4:M:285:ILE:H	1.55	0.51
7:N:355:ASN:O	7:N:359:ALA:HB2	2.10	0.51
9:P:243:ILE:CG1	9:P:247:TYR:CD2	2.89	0.51
10:Q:155:ARG:CA	10:Q:158:LYS:HG2	2.19	0.51
10:Q:276:ALA:O	10:Q:277:LEU:C	2.48	0.51
7:N:10:SER:CB	13:T:170:GLN:HG3	2.39	0.51
13:T:259:PHE:HD1	13:T:262:ILE:HD12	1.75	0.51
13:T:340:ILE:O	13:T:344:ARG:N	2.39	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:0:91:SER:HG	4:0:153:VAL:HG21	1.75	0.51
4:0:168:TYR:CD2	4:0:173:LYS:NZ	2.77	0.51
8:2:157:ASP:O	8:2:160:SER:OG	2.27	0.51
8:2:280:MET:O	8:2:284:ARG:HG3	2.11	0.51
10:4:320:SER:C	10:4:322:HIS:N	2.63	0.51
12:6:190:ASP:O	12:6:194:LYS:CG	2.59	0.51
16:AA:16:MET:CG	16:AA:29:GLN:HE22	2.21	0.51
18:AC:164:GLY:HA2	18:AC:167:ALA:HB2	1.84	0.51
1:I:234:LEU:HG	33:I:501:ADP:C2'	2.39	0.51
5:J:48:GLN:O	5:J:52:LEU:HG	2.09	0.51
6:K:286:GLN:O	6:K:289:LEU:HB2	2.10	0.51
4:M:343:LEU:HB3	4:M:351:LYS:HZ3	1.75	0.51
8:O:149:THR:C	8:O:151:VAL:H	2.14	0.51
8:O:34:TRP:H	16:W:18:ASN:HD21	1.56	0.51
8:O:374:ILE:HD12	13:T:347:GLU:CD	2.30	0.51
9:P:63:THR:OG1	9:P:102:ALA:CB	2.58	0.51
9:P:317:TRP:CH2	9:P:351:TRP:CZ3	2.96	0.51
10:Q:238:GLY:O	10:Q:242:ILE:CG2	2.58	0.51
11:R:267:ARG:CG	11:R:270:VAL:CG1	2.88	0.51
11:R:30:GLU:CA	11:R:31:HIS:CG	2.90	0.51
13:T:198:PHE:O	13:T:201:SER:OG	2.15	0.51
14:U:176:LEU:HD21	15:V:217:LEU:HB2	1.92	0.51
15:V:254:ASN:HB3	15:V:280:PRO:CB	2.40	0.51
16:W:171:VAL:CB	16:W:186:SER:CB	2.88	0.51
18:Z:164:GLY:HA2	18:Z:167:ALA:HB2	1.84	0.51
4:0:68:ALA:O	4:0:72:LYS:HB2	2.10	0.51
8:2:62:ASN:O	8:2:65:SER:OG	2.28	0.51
10:4:245:PRO:CD	10:4:246:LYS:H	2.22	0.51
11:5:363:ASN:HD21	12:6:466:ILE:HG23	1.72	0.51
12:6:480:ILE:H	12:6:480:ILE:CD1	2.23	0.51
15:9:212:LEU:HD12	15:9:215:LYS:HD2	1.93	0.51
14:8:176:LEU:HD21	15:9:217:LEU:HB2	1.92	0.51
16:AA:144:GLY:HA3	16:AA:148:VAL:HG13	1.91	0.51
16:AA:148:VAL:O	16:AA:153:LEU:HD12	2.09	0.51
16:AA:54:LEU:O	16:AA:58:CYS:N	2.43	0.51
2:H:388:VAL:HG13	2:H:412:ALA:HB1	1.92	0.51
1:I:216:ILE:HD13	2:H:393:GLY:CA	2.41	0.51
1:I:171:VAL:CG1	1:I:277:HIS:NE2	2.73	0.51
1:I:365:PHE:CE1	1:I:383:LEU:CD1	2.91	0.51
1:I:414:VAL:CG1	1:I:415:THR:N	2.73	0.51
5:J:167:LEU:HB3	5:J:168:PRO:HD3	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:K:171:ASP:OD1	6:K:171:ASP:N	2.44	0.51
6:K:184:PRO:CA	6:K:191:TYR:HE2	2.05	0.51
3:L:147:GLU:O	3:L:152:PRO:HD3	2.10	0.51
3:L:223:ARG:O	3:L:226:GLN:HG3	2.10	0.51
3:L:338:PHE:CZ	3:L:375:ALA:HA	2.45	0.51
3:L:58:GLY:CA	3:L:74:THR:CG2	2.59	0.51
6:K:52:GLU:CD	7:N:596:ASN:ND2	2.64	0.51
9:P:183:VAL:HA	9:P:186:ILE:HD12	1.93	0.51
10:Q:7:VAL:O	10:Q:11:ARG:N	2.28	0.51
11:R:227:SER:HB2	11:R:231:LEU:HD12	1.91	0.51
13:T:104:ARG:O	13:T:108:ASN:CB	2.59	0.51
13:T:271:ILE:O	13:T:274:CYS:HB2	2.10	0.51
13:T:282:ILE:O	13:T:314:ASN:HA	2.10	0.51
15:V:237:HIS:C	15:V:237:HIS:HD2	2.11	0.51
15:V:254:ASN:HB3	15:V:280:PRO:HG3	1.93	0.51
15:V:248:MET:CE	15:V:288:VAL:HG23	2.40	0.51
16:W:108:ARG:HA	16:W:137:ASN:O	2.11	0.51
16:W:53:THR:O	16:W:58:CYS:CA	2.53	0.51
18:Z:296:PHE:O	18:Z:300:ARG:N	2.34	0.51
4:0:347:ARG:CG	4:0:347:ARG:HH11	2.24	0.51
7:1:415:HIS:HB3	7:1:418:GLU:OE1	2.10	0.51
7:1:341:PHE:HE1	7:1:882:ALA:N	2.08	0.51
9:3:344:THR:CA	9:3:348:GLU:CB	2.67	0.51
10:4:294:SER:CA	10:4:330:LEU:HD21	2.35	0.51
11:5:136:HIS:O	11:5:140:ILE:CB	2.58	0.51
12:6:463:MET:HB2	12:6:466:ILE:CD1	2.40	0.51
13:7:282:ILE:O	13:7:314:ASN:HA	2.10	0.51
13:7:349:ILE:HD13	14:8:267:ARG:HH12	1.75	0.51
16:AA:142:ASN:ND2	16:AA:172:THR:HG23	2.24	0.51
16:AA:54:LEU:HA	16:AA:58:CYS:CA	2.40	0.51
18:AC:147:SER:HA	18:AC:186:THR:O	2.11	0.51
23:F:51:GLU:HA	23:F:215:ILE:HG22	1.92	0.51
24:G:227:ASP:O	24:G:230:SER:OG	2.27	0.51
2:H:242:GLY:HA2	2:H:280:ILE:CG1	2.32	0.51
2:H:246:VAL:HG21	2:H:295:VAL:HG22	1.91	0.51
2:H:306:LEU:HD12	2:H:312:ARG:HH21	1.76	0.51
2:H:355:PHE:HE2	2:H:373:LEU:HB3	1.75	0.51
1:I:232:LYS:N	1:I:353:PHE:CE2	2.78	0.51
5:J:65:LEU:HA	5:J:68:GLU:HG3	1.93	0.51
6:K:126:PRO:HD2	6:K:127:ASN:H	1.74	0.51
6:K:169:GLY:HA2	6:K:343:LEU:HD13	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:205:ASP:OD2	3:L:210:GLU:CD	2.49	0.51
3:L:238:ILE:CG1	3:L:260:LEU:HD11	2.39	0.51
4:M:169:ASP:HB2	4:M:172:VAL:HG21	1.87	0.51
4:M:249:LEU:O	4:M:283:ILE:CA	2.56	0.51
4:M:268:VAL:O	4:M:272:PHE:N	2.39	0.51
4:M:299:GLU:O	4:M:300:LYS:HB2	2.10	0.51
7:N:160:LEU:O	7:N:163:PHE:C	2.48	0.51
7:N:178:ALA:O	7:N:182:LYS:N	2.39	0.51
7:N:55:ARG:CG	7:N:56:SER:H	2.23	0.51
8:O:240:PHE:CG	8:O:275:LEU:CD1	2.93	0.51
8:O:280:MET:O	8:O:284:ARG:HG3	2.11	0.51
9:P:304:ASP:CB	9:P:324:TYR:OH	2.58	0.51
10:Q:84:LYS:HZ1	10:Q:88:LEU:HD21	1.75	0.51
11:R:17:LEU:HD12	11:R:213:LEU:HA	1.93	0.51
14:U:175:LEU:C	14:U:177:ARG:N	2.63	0.51
4:O:338:LEU:H	4:O:338:LEU:HD23	1.76	0.51
23:F:20:ARG:HB2	4:O:435:LEU:HD11	1.91	0.51
8:2:149:THR:C	8:2:151:VAL:N	2.64	0.51
9:3:63:THR:O	9:3:67:LEU:HB2	2.11	0.51
10:4:113:CYS:HA	10:4:116:TRP:HB3	1.92	0.51
10:4:319:ILE:O	10:4:322:HIS:HB2	2.10	0.51
11:5:21:GLN:CG	11:5:286:TRP:HE3	2.02	0.51
13:7:138:LYS:O	13:7:141:LEU:HG	2.10	0.51
15:9:207:TYR:CE2	15:9:209:LYS:HD2	2.44	0.51
18:AC:697:ILE:O	18:AC:702:PRO:N	2.44	0.51
2:H:150:HIS:C	2:H:151:ILE:HG13	2.31	0.51
2:H:174:TYR:HD2	2:H:184:ILE:HG21	1.74	0.51
2:H:369:ARG:O	2:H:369:ARG:HG2	2.11	0.51
2:H:374:ALA:HA	2:H:377:CYS:SG	2.50	0.51
1:I:112:LEU:HD12	1:I:145:GLU:O	2.11	0.51
1:I:199:GLU:O	1:I:203:LEU:HB3	2.10	0.51
1:I:291:GLY:C	1:I:293:LYS:H	2.11	0.51
1:I:365:PHE:CZ	1:I:383:LEU:CB	2.94	0.51
5:J:175:PHE:N	5:J:175:PHE:HD1	2.09	0.51
6:K:194:ILE:HG22	6:K:194:ILE:O	2.10	0.51
6:K:205:TYR:CA	6:K:311:THR:O	2.58	0.51
6:K:212:LYS:HE3	33:K:501:ADP:O2B	2.10	0.51
6:K:287:ARG:O	6:K:290:LEU:N	2.44	0.51
6:K:406:VAL:O	6:K:407:ILE:C	2.49	0.51
6:K:95:ALA:HA	6:K:101:ALA:CB	2.41	0.51
3:L:314:LYS:HE2	3:L:328:TYR:CD2	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:52:SER:C	3:L:53:VAL:CG2	2.78	0.51
3:L:320:ILE:HG12	4:M:216:GLY:O	2.11	0.51
4:M:413:THR:HG1	4:M:414:GLU:H	1.59	0.51
7:N:336:GLU:O	7:N:340:GLN:N	2.23	0.51
7:N:540:GLN:CD	15:V:68:ARG:HH22	2.14	0.51
7:N:86:ASP:CG	7:N:87:LEU:H	2.13	0.51
12:S:472:PRO:CD	12:S:473:GLN:N	2.69	0.51
14:U:252:LYS:HA	14:U:252:LYS:CE	2.39	0.51
10:4:93:LEU:HD11	10:4:129:LEU:HD11	1.90	0.51
10:4:183:LEU:N	10:4:184:PRO:CD	2.74	0.51
10:4:193:ALA:CA	10:4:196:THR:HG22	2.38	0.51
10:4:163:LYS:CD	10:4:200:ILE:CG2	2.61	0.51
11:5:228:MET:HB3	11:5:259:TYR:OH	2.11	0.51
12:6:299:GLN:O	12:6:300:LEU:CB	2.58	0.51
13:7:342:TYR:O	13:7:346:LEU:HG	2.08	0.51
14:8:14:LEU:HD11	15:9:40:LYS:HA	1.92	0.51
14:8:210:SER:O	14:8:213:GLU:HB2	2.11	0.51
15:9:118:PHE:O	15:9:121:TRP:NE1	2.37	0.51
2:H:413:VAL:O	2:H:417:ILE:HB	2.11	0.51
1:I:398:ILE:C	1:I:419:PHE:HE1	2.14	0.51
5:J:30:GLU:C	5:J:34:ILE:HD11	2.31	0.51
5:J:55:LYS:O	5:J:59:LEU:CB	2.55	0.51
5:J:71:SER:O	6:K:111:TYR:HB3	2.11	0.51
4:M:296:PHE:N	4:M:296:PHE:CD1	2.76	0.51
7:N:12:LEU:HD22	7:N:41:SER:HB3	1.91	0.51
7:N:459:ASP:O	7:N:463:ASN:N	2.41	0.51
9:P:396:LEU:O	9:P:400:LYS:N	2.44	0.51
11:R:14:ASN:HB3	11:R:16:ASP:N	2.26	0.51
11:R:186:LEU:HD11	11:R:287:LEU:CD1	2.40	0.51
11:R:229:ILE:CG1	11:R:295:TYR:OH	2.58	0.51
12:S:480:ILE:CD1	12:S:480:ILE:H	2.23	0.51
14:U:168:GLU:N	14:U:168:GLU:OE1	2.44	0.51
4:0:220:PRO:HB3	4:0:349:ASP:OD2	2.11	0.51
4:0:249:LEU:O	4:0:283:ILE:CA	2.56	0.51
7:1:109:THR:O	7:1:113:VAL:N	2.36	0.51
7:1:533:VAL:O	7:1:536:ALA:HB3	2.10	0.51
7:1:612:ASP:HB3	7:1:647:HIS:HB2	1.91	0.51
10:4:415:TYR:CE1	11:5:383:LEU:HB3	2.42	0.51
13:7:230:VAL:O	13:7:233:GLU:N	2.42	0.51
16:AA:19:GLY:HA2	16:AA:25:ARG:N	2.25	0.51
19:B:103:TYR:HD1	19:B:103:TYR:O	1.94	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:C:198:PHE:CZ	20:C:206:ASN:CB	2.77	0.51
2:H:300:LEU:HA	2:H:303:ILE:HD12	1.93	0.51
2:H:362:MET:CG	2:H:364:VAL:HG13	2.41	0.51
1:I:383:LEU:O	1:I:386:ALA:HB3	2.10	0.51
3:L:227:PRO:HA	3:L:272:ARG:HB3	1.93	0.51
7:N:398:ASN:HB3	7:N:437:TYR:CE2	2.46	0.51
10:Q:332:GLU:OE1	10:Q:364:LYS:NZ	2.43	0.51
11:R:108:ALA:CB	11:R:124:PHE:CD1	2.94	0.51
11:R:161:THR:O	11:R:165:LYS:HB2	2.10	0.51
12:S:166:TYR:O	12:S:169:LEU:HB2	2.11	0.51
14:U:110:GLU:HA	14:U:113:LYS:HE2	1.92	0.51
9:P:444:HIS:NE2	14:U:138:TYR:CZ	2.78	0.51
14:U:275:LEU:HD13	14:U:275:LEU:C	2.31	0.51
14:U:57:PRO:HG2	15:V:101:GLN:HG2	1.93	0.51
16:W:173:VAL:HG13	25:X:232:ARG:CB	238.09	0.51
4:O:252:ALA:HB1	4:O:254:PRO:HD2	1.92	0.51
4:O:415:LEU:N	4:O:415:LEU:HD23	2.26	0.51
7:1:31:VAL:HG13	7:1:35:TRP:HB3	1.93	0.51
7:1:452:ASN:H	7:1:484:ALA:HA	1.75	0.51
7:1:535:TYR:HA	7:1:538:GLU:HB3	1.93	0.51
7:1:540:GLN:CD	15:9:68:ARG:HH22	2.14	0.51
9:3:150:ALA:O	9:3:162:ALA:HB1	2.10	0.51
10:4:312:GLU:O	10:4:315:ASP:N	2.43	0.51
14:8:263:ALA:CB	15:9:288:VAL:HG13	2.31	0.51
21:D:11:ILE:HG23	22:E:18:GLN:HE22	1.75	0.51
2:H:133:ASP:C	2:H:134:ILE:HG13	2.31	0.51
1:I:424:GLU:HA	1:I:428:TYR:HD2	0.78	0.51
5:J:376:VAL:HG23	5:J:377:HIS:N	2.26	0.51
3:L:267:PHE:CE2	6:K:160:PRO:HG3	2.45	0.51
6:K:194:ILE:HB	6:K:196:ILE:CD1	2.41	0.51
3:L:132:TYR:CE2	3:L:146:ARG:NE	2.79	0.51
3:L:199:VAL:O	3:L:233:ASP:O	2.29	0.51
3:L:207:TYR:HB2	3:L:210:GLU:HB2	1.91	0.51
8:O:38:THR:O	8:O:42:LEU:HB2	2.11	0.51
10:Q:113:CYS:HA	10:Q:116:TRP:HB3	1.92	0.51
10:Q:153:LEU:HA	10:Q:156:GLU:HG2	1.93	0.51
10:Q:273:GLY:O	10:Q:277:LEU:CB	2.47	0.51
10:Q:358:LYS:O	10:Q:361:VAL:N	2.44	0.51
10:Q:85:ALA:C	10:Q:89:VAL:HG23	2.31	0.51
11:R:117:LYS:HG2	11:R:121:LEU:HD11	1.93	0.51
11:R:176:ARG:O	11:R:179:ARG:HG2	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:R:228:MET:HB3	11:R:259:TYR:OH	2.11	0.51
13:T:349:ILE:HD13	14:U:267:ARG:HH12	1.75	0.51
25:X:150:MET:O	25:X:150:MET:HG3	4.98	0.51
12:S:83:GLU:CB	17:Y:5:LYS:CB	2.88	0.51
18:Z:697:ILE:O	18:Z:702:PRO:N	2.44	0.51
7:1:381:THR:HA	7:1:411:ILE:HG22	1.92	0.51
7:1:418:GLU:O	7:1:422:LEU:N	2.30	0.51
7:1:398:ASN:HB3	7:1:437:TYR:CE2	2.46	0.51
7:1:495:ASP:O	7:1:498:LYS:N	2.43	0.51
7:1:923:GLU:HB3	7:1:926:GLU:OE1	2.11	0.51
9:3:245:LYS:O	9:3:248:ARG:HB3	2.10	0.51
9:3:384:LEU:CD1	9:3:388:GLU:HB3	2.36	0.51
9:3:396:LEU:O	9:3:400:LYS:N	2.44	0.51
9:3:68:VAL:C	9:3:71:VAL:HG22	2.30	0.51
13:7:332:SER:OG	15:9:303:MET:C	2.43	0.51
14:8:175:LEU:C	14:8:177:ARG:N	2.63	0.51
18:AC:259:PHE:O	18:AC:262:PHE:N	2.39	0.51
22:E:12:PRO:HA	23:F:26:TYR:CD1	2.45	0.51
1:I:339:PRO:CG	2:H:425:ALA:HB1	2.36	0.51
1:I:219:PRO:O	1:I:220:LYS:O	2.28	0.51
5:J:43:ARG:O	5:J:46:GLN:HB2	2.11	0.51
6:K:151:ILE:O	6:K:152:MET:HB3	2.10	0.51
6:K:152:MET:HG2	6:K:152:MET:O	2.11	0.51
6:K:268:ASP:O	6:K:272:THR:CG2	2.58	0.51
3:L:126:ASP:OD1	4:M:320:PHE:CE2	2.64	0.51
3:L:166:PRO:HB2	3:L:274:LYS:HZ3	1.75	0.51
4:M:212:PHE:CB	4:M:217:ILE:HD11	2.41	0.51
4:M:88:TYR:CZ	4:M:161:LEU:HB2	2.46	0.51
7:N:164:GLU:OE1	7:N:164:GLU:HA	2.10	0.51
7:N:62:LEU:HD12	7:N:65:SER:HB2	1.91	0.51
7:N:738:ASP:HA	7:N:742:HIS:HB3	1.92	0.51
8:O:285:PRO:HA	8:O:286:ALA:O	2.11	0.51
9:P:245:LYS:O	9:P:248:ARG:HB3	2.10	0.51
10:Q:183:LEU:N	10:Q:184:PRO:CD	2.74	0.51
10:Q:193:ALA:HA	10:Q:196:THR:CG2	2.39	0.51
10:Q:97:LEU:CD2	10:Q:136:LEU:HD11	2.41	0.51
11:R:163:LYS:O	11:R:166:SER:OG	2.26	0.51
11:R:21:GLN:HB2	11:R:286:TRP:HZ3	1.76	0.51
11:R:344:HIS:ND1	11:R:359:PRO:HB3	2.24	0.51
14:U:263:ALA:CB	15:V:288:VAL:HG13	2.31	0.51
4:0:137:ILE:HG21	4:0:145:LEU:CD1	2.31	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:1:457:ILE:O	7:1:461:LEU:N	2.22	0.50
11:5:17:LEU:HD12	11:5:213:LEU:HA	1.93	0.50
11:5:183:TYR:CE1	11:5:213:LEU:HD21	2.46	0.50
11:5:205:VAL:CG1	11:5:245:GLU:HB2	2.41	0.50
12:6:265:ASP:HA	12:6:268:GLU:CG	2.40	0.50
12:6:472:PRO:CD	12:6:473:GLN:N	2.69	0.50
12:6:298:ILE:HG21	13:7:213:GLU:CG	2.42	0.50
13:7:258:PHE:CG	13:7:259:PHE:N	2.79	0.50
15:9:145:VAL:HG22	15:9:157:ILE:CD1	2.42	0.50
12:6:83:GLU:CB	17:AB:5:LYS:CB	2.88	0.50
2:H:247:GLN:OE1	2:H:256:MET:CE	2.59	0.50
2:H:261:PHE:CE1	2:H:306:LEU:HD13	2.44	0.50
1:I:237:LYS:HE3	5:J:281:ASP:O	2.11	0.50
1:I:392:GLY:O	33:I:501:ADP:C8	2.64	0.50
5:J:154:LEU:HD21	5:J:317:PHE:CE2	2.46	0.50
1:I:173:VAL:HG13	5:J:232:ARG:CB	2.41	0.50
5:J:232:ARG:HG3	5:J:232:ARG:HH11	1.75	0.50
5:J:43:ARG:HE	6:K:57:GLN:HB3	1.75	0.50
6:K:188:PHE:CE2	6:K:304:ASN:OD1	2.64	0.50
6:K:98:GLN:HA	6:K:98:GLN:OE1	2.11	0.50
3:L:101:ASP:O	3:L:105:LEU:HA	2.10	0.50
3:L:116:ASP:OD1	3:L:117:PRO:HD2	2.11	0.50
4:M:272:PHE:HE2	4:M:316:GLN:HB2	1.64	0.50
7:N:180:SER:O	7:N:184:CYS:N	2.30	0.50
7:N:31:VAL:HG13	7:N:35:TRP:HB3	1.93	0.50
9:P:446:ILE:HA	9:P:449:GLU:OE1	2.12	0.50
9:P:453:HIS:O	9:P:454:ASN:CG	2.49	0.50
10:Q:96:PHE:CD1	10:Q:106:GLU:OE2	2.62	0.50
10:Q:351:SER:OG	10:Q:356:LEU:O	2.21	0.50
12:S:190:ASP:O	12:S:194:LYS:CG	2.59	0.50
14:U:94:TRP:CE2	14:U:109:ASN:OD1	2.59	0.50
15:V:160:PHE:HB3	15:V:202:SER:HA	1.91	0.50
18:Z:832:THR:HA	18:Z:898:VAL:O	2.11	0.50
4:0:397:LYS:O	4:0:400:CYS:HB3	2.11	0.50
4:0:409:ARG:C	4:0:411:GLY:N	2.64	0.50
4:0:413:THR:OG1	4:0:414:GLU:OE2	2.30	0.50
9:3:390:GLU:CD	9:3:408:ARG:NH2	2.64	0.50
10:4:401:LEU:HD21	11:5:369:THR:CA	2.40	0.50
10:4:402:GLU:HG3	15:9:249:LEU:CD1	2.13	0.50
11:5:221:THR:CG2	11:5:253:LEU:HD11	2.40	0.50
13:7:175:TYR:O	13:7:183:PRO:CG	2.60	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:8:275:LEU:HD13	14:8:275:LEU:C	2.31	0.50
18:AC:762:VAL:O	18:AC:766:GLN:N	2.31	0.50
2:H:332:MET:O	2:H:333:ARG:O	2.29	0.50
1:I:365:PHE:CZ	1:I:383:LEU:HB3	2.46	0.50
5:J:138:MET:HE2	5:J:143:VAL:CG2	2.40	0.50
5:J:148:TYR:CG	5:J:206:HIS:CD2	2.99	0.50
3:L:243:PHE:C	3:L:244:SER:OG	2.49	0.50
4:M:314:LEU:CD2	4:M:342:LEU:HD21	2.32	0.50
7:N:130:LEU:O	7:N:134:VAL:N	2.26	0.50
7:N:451:ALA:HA	7:N:484:ALA:HA	1.93	0.50
7:N:616:ARG:NE	7:N:650:TYR:CG	2.74	0.50
10:Q:320:SER:C	10:Q:322:HIS:N	2.63	0.50
11:R:108:ALA:CB	11:R:123:ALA:HB3	2.34	0.50
11:R:241:ILE:HD11	11:R:260:LEU:CD1	2.37	0.50
14:U:34:ARG:NH2	14:U:102:HIS:CD2	2.73	0.50
15:V:255:TYR:N	15:V:280:PRO:HG3	2.26	0.50
16:W:112:PHE:HA	16:W:141:ILE:HB	1.92	0.50
16:W:54:LEU:CA	16:W:58:CYS:HA	2.42	0.50
25:X:232:ARG:HH11	25:X:232:ARG:HG3	3.85	0.50
18:Z:147:SER:HA	18:Z:186:THR:O	2.11	0.50
4:O:258:GLN:HG3	4:O:263:ASP:HB3	1.93	0.50
7:1:62:LEU:HD12	7:1:65:SER:HB2	1.91	0.50
7:1:666:LYS:HA	7:1:669:ILE:HB	1.94	0.50
9:3:216:GLU:O	9:3:220:GLU:HG3	2.11	0.50
10:4:212:MET:CG	10:4:235:ALA:HB3	2.42	0.50
10:4:239:TYR:HB2	10:4:247:ALA:CA	2.41	0.50
11:5:117:LYS:HG2	11:5:121:LEU:HD11	1.93	0.50
11:5:344:HIS:ND1	11:5:359:PRO:CG	2.72	0.50
12:6:61:GLU:O	12:6:65:ARG:N	2.31	0.50
5:J:207:THR:O	5:J:207:THR:HG23	2.12	0.50
5:J:31:LEU:O	5:J:35:VAL:HG23	2.11	0.50
4:M:168:TYR:HD2	4:M:173:LYS:NZ	2.09	0.50
4:M:338:LEU:HD23	4:M:338:LEU:H	1.76	0.50
4:M:409:ARG:C	4:M:411:GLY:N	2.64	0.50
7:N:27:LEU:O	7:N:31:VAL:HG23	2.12	0.50
7:N:442:GLY:HA2	7:N:445:ALA:HB3	1.91	0.50
7:N:601:ARG:HG3	7:N:601:ARG:HH11	1.76	0.50
8:O:325:ASP:OD1	9:P:372:ARG:HB2	2.11	0.50
9:P:150:ALA:O	9:P:162:ALA:HB1	2.10	0.50
9:P:419:LYS:CB	9:P:423:ASN:HD22	2.24	0.50
9:P:90:LEU:C	9:P:90:LEU:HD23	2.32	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:Q:97:LEU:HD22	10:Q:136:LEU:HD11	1.94	0.50
13:T:258:PHE:CG	13:T:259:PHE:N	2.79	0.50
14:U:48:LEU:HD12	14:U:120:VAL:HG21	1.93	0.50
15:V:266:THR:HB	15:V:267:PRO:CD	2.41	0.50
4:0:426:GLU:C	4:0:428:GLN:N	2.65	0.50
7:1:616:ARG:NH2	7:1:647:HIS:HA	2.27	0.50
8:2:285:PRO:HA	8:2:286:ALA:O	2.11	0.50
8:2:57:ILE:O	8:2:61:GLU:N	2.36	0.50
9:3:183:VAL:HA	9:3:186:ILE:HD12	1.93	0.50
9:3:360:GLU:O	9:3:364:ARG:CB	2.57	0.50
9:3:419:LYS:CB	9:3:423:ASN:HD22	2.24	0.50
9:3:44:ILE:O	9:3:48:LEU:HD12	2.12	0.50
12:6:69:THR:CB	12:6:163:VAL:CG1	2.90	0.50
12:6:319:HIS:CG	12:6:320:THR:N	2.80	0.50
2:H:332:MET:HG3	2:H:340:LYS:HE3	1.94	0.50
2:H:397:ILE:O	2:H:399:ALA:O	2.30	0.50
1:I:190:LEU:HB3	1:I:194:ILE:HG12	1.92	0.50
1:I:223:ILE:HG13	1:I:347:ILE:HD13	1.94	0.50
1:I:228:PRO:HB2	5:J:307:ARG:CG	2.42	0.50
1:I:401:GLU:CG	1:I:422:SER:CA	2.79	0.50
6:K:129:SER:O	6:K:143:LEU:HB2	2.10	0.50
6:K:372:GLY:CA	6:K:375:ILE:HD12	2.39	0.50
6:K:96:VAL:HG21	6:K:112:TYR:CD1	2.45	0.50
3:L:155:ASN:N	3:L:156:PRO:HD2	2.25	0.50
3:L:354:ALA:CB	3:L:362:VAL:HG22	2.41	0.50
4:M:251:LEU:CD2	4:M:256:LEU:HD21	2.38	0.50
4:M:220:PRO:HB3	4:M:349:ASP:OD2	2.11	0.50
4:M:397:LYS:O	4:M:400:CYS:HB3	2.11	0.50
7:N:528:ALA:O	7:N:532:MET:N	2.31	0.50
9:P:216:GLU:O	9:P:220:GLU:HG3	2.11	0.50
9:P:63:THR:O	9:P:67:LEU:HB2	2.11	0.50
11:R:142:PHE:HZ	11:R:180:LEU:HD23	1.65	0.50
13:T:337:LYS:HA	13:T:340:ILE:HB	1.93	0.50
15:V:150:SER:OG	15:V:156:VAL:CG1	2.57	0.50
15:V:145:VAL:HG22	15:V:157:ILE:CD1	2.42	0.50
4:0:90:VAL:CG1	4:0:164:LEU:CD1	2.90	0.50
7:1:618:ALA:O	7:1:622:LEU:HG	2.12	0.50
10:4:259:ILE:CG2	10:4:326:LEU:HD11	2.41	0.50
11:5:176:ARG:O	11:5:179:ARG:HG2	2.11	0.50
12:6:175:MET:HB3	12:6:184:ALA:CB	2.40	0.50
12:6:318:GLN:O	12:6:319:HIS:C	2.50	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:7:259:PHE:HD1	13:7:262:ILE:HD12	1.75	0.50
14:8:110:GLU:HA	14:8:113:LYS:HE2	1.92	0.50
14:8:223:ASN:C	14:8:225:GLN:N	2.63	0.50
14:8:74:TYR:HD1	15:9:98:MET:CE	2.22	0.50
16:AA:113:VAL:HB	16:AA:142:ASN:HA	1.93	0.50
21:D:11:ILE:HG23	22:E:18:GLN:NE2	2.27	0.50
20:C:122:GLN:O	21:D:127:LYS:HD2	2.11	0.50
2:H:246:VAL:CG2	2:H:295:VAL:HG13	2.41	0.50
2:H:216:GLY:O	2:H:322:ASN:HA	2.11	0.50
5:J:138:MET:HE2	5:J:143:VAL:HG23	1.93	0.50
5:J:172:PRO:O	5:J:176:GLU:HG3	2.11	0.50
6:K:370:ILE:HG22	6:K:375:ILE:HG13	1.92	0.50
3:L:215:ILE:HG21	3:L:260:LEU:HD23	1.94	0.50
3:L:264:MET:CE	3:L:277:MET:CE	2.89	0.50
3:L:67:GLU:HA	3:L:83:CYS:SG	2.52	0.50
4:M:415:LEU:HD23	4:M:415:LEU:N	2.26	0.50
4:M:68:ALA:O	4:M:72:LYS:HB2	2.10	0.50
4:M:76:ASN:O	4:M:80:ILE:HG13	2.12	0.50
7:N:470:ASN:N	7:N:474:ARG:HB3	2.24	0.50
9:P:396:LEU:O	9:P:400:LYS:CA	2.60	0.50
10:Q:167:VAL:HG22	10:Q:196:THR:CG2	2.40	0.50
11:R:192:ARG:HG2	11:R:192:ARG:NH1	2.27	0.50
12:S:265:ASP:OD1	12:S:266:GLN:N	2.40	0.50
12:S:298:ILE:HG21	13:T:213:GLU:CG	2.42	0.50
14:U:174:HIS:ND1	14:U:174:HIS:O	2.43	0.50
14:U:14:LEU:HD11	15:V:40:LYS:HA	1.92	0.50
16:W:19:GLY:HA2	16:W:25:ARG:N	2.25	0.50
4:0:343:LEU:HB3	4:0:351:LYS:NZ	2.27	0.50
4:0:435:LEU:HD23	4:0:438:TYR:CE1	2.46	0.50
7:1:243:LEU:O	7:1:247:GLN:N	2.29	0.50
7:1:616:ARG:NH2	7:1:650:TYR:CD2	2.53	0.50
11:5:186:LEU:HD11	11:5:287:LEU:CD1	2.40	0.50
13:7:104:ARG:O	13:7:108:ASN:CB	2.59	0.50
12:6:480:ILE:CB	13:7:342:TYR:CZ	2.89	0.50
14:8:138:TYR:CD1	14:8:157:HIS:HA	2.46	0.50
1:I:132:TYR:OH	2:H:153:LEU:CD1	2.59	0.50
2:H:193:THR:OG1	2:H:194:PRO:HD3	2.11	0.50
2:H:277:ILE:HD12	2:H:278:ASP:N	2.26	0.50
1:I:199:GLU:HG2	1:I:203:LEU:HD22	1.94	0.50
1:I:369:THR:HG22	1:I:399:CYS:HG	1.77	0.50
5:J:222:LYS:C	5:J:222:LYS:HD3	2.32	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:K:383:GLY:O	6:K:387:VAL:CG2	2.56	0.50
3:L:178:THR:O	3:L:301:ILE:HG22	2.12	0.50
8:O:149:THR:C	8:O:151:VAL:N	2.64	0.50
8:O:62:ASN:O	8:O:65:SER:OG	2.28	0.50
9:P:390:GLU:CD	9:P:408:ARG:NH2	2.64	0.50
9:P:406:VAL:HG12	9:P:407:ASP:N	2.26	0.50
10:Q:203:PRO:CG	10:Q:204:PRO:CD	2.90	0.50
11:R:205:VAL:CG1	11:R:245:GLU:HB2	2.41	0.50
12:S:482:PHE:CD1	12:S:486:ILE:HD11	2.47	0.50
14:U:223:ASN:C	14:U:225:GLN:N	2.63	0.50
15:V:130:GLN:HG3	15:V:162:LEU:HD23	1.93	0.50
4:O:175:MET:HG2	4:O:251:LEU:HB2	1.94	0.50
4:O:299:GLU:O	4:O:300:LYS:HB2	2.10	0.50
4:O:76:ASN:O	4:O:80:ILE:HG13	2.12	0.50
7:1:164:GLU:OE1	7:1:164:GLU:HA	2.10	0.50
7:1:601:ARG:HG3	7:1:601:ARG:HH11	1.76	0.50
10:4:97:LEU:CD2	10:4:136:LEU:HD11	2.41	0.50
10:4:153:LEU:HA	10:4:156:GLU:HG2	1.93	0.50
10:4:200:ILE:O	10:4:201:TYR:O	2.28	0.50
10:4:339:ILE:O	10:4:387:ILE:HD12	2.12	0.50
11:5:267:ARG:CG	11:5:270:VAL:CG1	2.88	0.50
13:7:335:LEU:HD23	15:9:303:MET:HE3	1.92	0.50
14:8:48:LEU:HD12	14:8:120:VAL:HG21	1.93	0.50
14:8:252:LYS:CE	14:8:252:LYS:HA	2.39	0.50
15:9:266:THR:HB	15:9:267:PRO:CD	2.41	0.50
18:AC:519:ALA:O	18:AC:523:GLY:N	2.40	0.50
2:H:88:GLN:HA	2:H:91:GLN:HG3	1.93	0.50
1:I:401:GLU:HB3	1:I:422:SER:OG	2.11	0.50
5:J:151:ILE:O	5:J:151:ILE:CG2	2.59	0.50
5:J:47:ALA:O	5:J:48:GLN:C	2.50	0.50
5:J:88:LYS:HB2	5:J:94:LYS:CG	2.37	0.50
4:M:249:LEU:CD2	4:M:283:ILE:CD1	2.87	0.50
4:M:426:GLU:C	4:M:428:GLN:N	2.65	0.50
2:H:122:VAL:O	4:M:88:TYR:HB2	2.12	0.50
10:Q:239:TYR:HB2	10:Q:247:ALA:CA	2.41	0.50
11:R:28:LEU:HB2	11:R:31:HIS:CG	2.47	0.50
7:N:7:GLY:CA	13:T:170:GLN:HG2	2.21	0.50
8:O:360:VAL:HG11	14:U:202:ASN:HB2	1.94	0.50
4:O:212:PHE:CB	4:O:217:ILE:HD11	2.41	0.50
4:O:435:LEU:CD2	4:O:438:TYR:CD1	2.95	0.50
4:O:88:TYR:CZ	4:O:161:LEU:HB2	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:1:27:LEU:O	7:1:31:VAL:HG23	2.12	0.50
7:1:613:ASP:O	7:1:617:ALA:N	2.35	0.50
7:1:900:TYR:HA	7:1:917:THR:H	1.76	0.50
8:2:132:LYS:CG	8:2:162:TYR:OH	2.60	0.50
8:2:242:SER:CA	8:2:279:GLU:OE2	2.59	0.50
11:5:151:TYR:O	11:5:152:MET:CB	2.60	0.50
12:6:487:HIS:O	12:6:491:VAL:CG2	2.49	0.50
14:8:57:PRO:HG2	15:9:101:GLN:HG2	1.93	0.50
15:9:224:SER:OG	15:9:225:TRP:N	2.44	0.50
15:9:255:TYR:N	15:9:280:PRO:HG3	2.26	0.50
16:AA:108:ARG:HA	16:AA:137:ASN:O	2.11	0.50
18:AC:832:THR:HA	18:AC:898:VAL:O	2.11	0.50
2:H:101:ILE:HA	2:H:113:ILE:HG12	1.94	0.50
2:H:99:THR:CB	2:H:142:VAL:HG21	2.33	0.50
2:H:160:THR:O	2:H:164:MET:HE3	2.11	0.50
1:I:343:ARG:NH1	33:H:501:ADP:H5'2	2.27	0.50
5:J:137:LEU:CB	5:J:224:ILE:CD1	2.86	0.50
5:J:193:GLY:O	5:J:356:GLY:N	2.44	0.50
6:K:393:ILE:HG22	6:K:394:VAL:N	2.26	0.50
6:K:403:TYR:CG	6:K:407:ILE:HD11	2.47	0.50
3:L:241:ARG:CG	3:L:241:ARG:HH11	2.25	0.50
3:L:264:MET:HG2	3:L:275:MET:CE	2.41	0.50
3:L:357:ALA:O	3:L:358:ASP:HB2	2.11	0.50
4:M:175:MET:HG2	4:M:251:LEU:HB2	1.94	0.50
4:M:91:SER:O	4:M:151:VAL:CG2	2.58	0.50
7:N:666:LYS:HA	7:N:669:ILE:HB	1.94	0.50
9:P:253:THR:HB	9:P:256:ILE:HG12	1.94	0.50
11:R:221:THR:HG22	11:R:253:LEU:HD13	1.93	0.50
14:U:283:ARG:HG2	14:U:283:ARG:NH1	2.27	0.50
14:U:23:PHE:HA	14:U:35:VAL:HG21	1.93	0.50
4:0:153:VAL:CG1	4:0:158:TYR:CA	2.79	0.50
4:0:237:ALA:HB3	4:0:284:PHE:HE2	1.77	0.50
4:0:282:ILE:HG23	4:0:329:ILE:HD12	1.94	0.50
4:0:226:TYR:CD2	4:0:335:VAL:HG21	2.42	0.50
7:1:339:LEU:O	7:1:343:ILE:N	2.38	0.50
8:2:70:ARG:HB2	16:AA:17:ARG:HH22	1.77	0.50
10:4:23:SER:HA	10:4:26:ILE:CB	2.42	0.50
11:5:259:TYR:CE1	11:5:260:LEU:HB2	2.47	0.50
11:5:31:HIS:O	11:5:32:ARG:HB2	2.12	0.50
13:7:183:PRO:O	13:7:183:PRO:CG	2.60	0.50
14:8:96:HIS:CE1	14:8:100:LYS:O	2.62	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:7:339:VAL:CG1	15:9:296:ILE:HG23	2.39	0.50
1:I:342:ILE:CG2	2:H:423:PHE:HB3	2.30	0.50
1:I:164:MET:O	1:I:166:ASP:N	2.44	0.50
1:I:251:VAL:HB	1:I:254:GLU:CG	2.42	0.50
6:K:121:ARG:C	6:K:123:LEU:H	2.14	0.50
3:L:199:VAL:CB	4:M:315:ASN:ND2	2.75	0.50
7:N:370:VAL:O	7:N:370:VAL:HG12	2.11	0.50
7:N:622:LEU:O	7:N:626:LEU:N	2.38	0.50
7:N:67:VAL:O	7:N:71:LEU:HG	2.12	0.50
7:N:788:VAL:O	7:N:881:PRO:N	2.45	0.50
12:S:480:ILE:CB	13:T:342:TYR:CZ	2.89	0.50
13:T:332:SER:HB3	15:V:307:VAL:HG13	1.94	0.50
25:X:151:ILE:CG2	25:X:151:ILE:O	3.46	0.50
4:0:202:ILE:HG23	4:0:327:LYS:HG2	1.94	0.49
7:1:55:ARG:CG	7:1:56:SER:H	2.23	0.49
9:3:446:ILE:HA	9:3:449:GLU:OE1	2.12	0.49
11:5:241:ILE:HD11	11:5:260:LEU:CD1	2.37	0.49
14:8:101:LEU:HD23	14:8:138:TYR:CE2	2.45	0.49
15:9:267:PRO:CD	15:9:268:GLU:N	2.68	0.49
15:9:251:LEU:HD12	15:9:283:HIS:HB3	1.87	0.49
1:I:223:ILE:CG1	1:I:347:ILE:HD13	2.42	0.49
5:J:42:LEU:O	5:J:45:LEU:N	2.45	0.49
5:J:67:GLN:N	6:K:136:SER:OG	2.44	0.49
6:K:249:ASP:O	6:K:253:LEU:N	2.27	0.49
6:K:51:LEU:HA	6:K:54:LEU:HD23	1.93	0.49
3:L:213:ARG:HG2	3:L:213:ARG:HH11	1.77	0.49
4:M:262:GLY:O	4:M:266:LYS:HB2	2.12	0.49
3:L:176:PRO:C	4:M:344:ARG:HD3	2.31	0.49
4:M:378:ASP:O	4:M:417:HIS:HB2	2.12	0.49
4:M:387:CYS:SG	4:M:424:ILE:CD1	3.01	0.49
4:M:74:LYS:HA	4:M:77:SER:HG	1.74	0.49
7:N:35:TRP:CB	7:N:67:VAL:HG22	2.42	0.49
7:N:573:ASP:CG	7:N:575:ASP:N	2.66	0.49
9:P:170:GLN:O	9:P:173:THR:HG22	2.12	0.49
10:Q:233:TYR:HA	10:Q:254:MET:SD	2.52	0.49
10:Q:401:LEU:HD21	11:R:369:THR:CA	2.40	0.49
14:U:138:TYR:CD1	14:U:157:HIS:HA	2.46	0.49
16:W:62:THR:CB	16:W:73:SER:CB	2.90	0.49
25:X:17:ASP:N	25:X:17:ASP:OD1	2.44	0.49
4:0:223:VAL:HG13	4:0:352:ILE:HG12	1.95	0.49
8:2:38:THR:O	8:2:42:LEU:HB2	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:3:90:LEU:C	9:3:90:LEU:HD23	2.32	0.49
10:4:97:LEU:HD22	10:4:136:LEU:HD11	1.94	0.49
11:5:197:ALA:O	11:5:201:PHE:HD2	1.96	0.49
12:6:166:TYR:O	12:6:169:LEU:HB2	2.11	0.49
12:6:476:PHE:C	12:6:480:ILE:HD13	2.32	0.49
13:7:280:GLU:O	13:7:316:TYR:HA	2.12	0.49
14:8:283:ARG:NH1	14:8:283:ARG:HG2	2.27	0.49
14:8:94:TRP:O	14:8:121:LEU:HD12	2.12	0.49
16:AA:17:ARG:HG3	16:AA:18:ASN:HB2	1.94	0.49
16:AA:38:HIS:O	16:AA:42:ARG:N	2.42	0.49
16:AA:62:THR:CB	16:AA:73:SER:CB	2.90	0.49
2:H:114:ASN:HA	2:H:120:LYS:HA	1.94	0.49
2:H:178:GLY:HA3	2:H:357:ILE:HD11	1.93	0.49
2:H:355:PHE:HE2	2:H:373:LEU:CB	2.25	0.49
2:H:99:THR:HG21	2:H:142:VAL:CB	2.37	0.49
1:I:117:ASP:N	1:I:117:ASP:OD1	2.45	0.49
1:I:287:ILE:HG21	1:I:329:MET:CE	2.43	0.49
1:I:345:GLY:HA2	2:H:386:ARG:HH21	1.77	0.49
6:K:205:TYR:CB	6:K:314:ALA:HB2	2.42	0.49
3:L:172:LEU:HD13	3:L:180:LYS:CA	2.42	0.49
3:L:210:GLU:OE1	3:L:213:ARG:NH2	2.45	0.49
7:N:618:ALA:O	7:N:622:LEU:HG	2.12	0.49
6:K:61:ILE:CD1	7:N:639:LEU:HD11	2.42	0.49
10:Q:259:ILE:CG2	10:Q:326:LEU:HD11	2.41	0.49
11:R:183:TYR:CE1	11:R:213:LEU:HD21	2.46	0.49
12:S:345:ARG:C	12:S:347:GLN:N	2.52	0.49
16:W:113:VAL:HB	16:W:142:ASN:HA	1.93	0.49
18:Z:497:VAL:O	18:Z:501:LEU:N	2.33	0.49
4:0:308:ARG:HA	4:0:311:LEU:HB2	1.95	0.49
4:0:187:ASP:C	4:0:368:ILE:HD13	2.28	0.49
4:0:387:CYS:SG	4:0:424:ILE:CD1	3.01	0.49
7:1:130:LEU:O	7:1:134:VAL:N	2.26	0.49
7:1:5:ALA:HB2	7:1:34:PHE:HB3	1.94	0.49
7:1:35:TRP:CB	7:1:67:VAL:HG22	2.42	0.49
9:3:317:TRP:CH2	9:3:351:TRP:HZ3	2.29	0.49
9:3:453:HIS:O	9:3:454:ASN:CG	2.49	0.49
10:4:239:TYR:CB	10:4:247:ALA:N	2.75	0.49
11:5:108:ALA:CB	11:5:123:ALA:HB3	2.34	0.49
13:7:250:ASN:O	13:7:253:ALA:CA	2.60	0.49
8:2:360:VAL:HG11	14:8:202:ASN:HB2	1.94	0.49
23:F:91:LYS:HE3	23:F:119:LEU:HD21	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:224:LEU:CD2	2:H:227:ARG:HH11	2.19	0.49
2:H:416:VAL:O	2:H:417:ILE:O	2.30	0.49
2:H:90:GLU:CA	2:H:93:LEU:HB2	2.42	0.49
1:I:95:GLU:O	1:I:99:VAL:HG23	2.11	0.49
6:K:374:ASP:O	6:K:377:SER:N	2.39	0.49
3:L:213:ARG:HB3	3:L:213:ARG:CZ	2.42	0.49
3:L:286:ASP:OD1	3:L:287:PRO:HD2	2.13	0.49
4:M:225:MET:HG3	4:M:354:PHE:CE2	2.43	0.49
7:N:923:GLU:HB3	7:N:926:GLU:OE1	2.11	0.49
8:O:242:SER:CA	8:O:279:GLU:OE2	2.59	0.49
9:P:44:ILE:O	9:P:48:LEU:HD12	2.12	0.49
10:Q:239:TYR:CB	10:Q:247:ALA:N	2.75	0.49
10:Q:23:SER:HA	10:Q:26:ILE:CB	2.42	0.49
14:U:94:TRP:CZ2	14:U:109:ASN:ND2	2.81	0.49
14:U:210:SER:O	14:U:213:GLU:HB2	2.11	0.49
15:V:212:LEU:HD12	15:V:215:LYS:HD2	1.93	0.49
4:O:204:LEU:CB	4:O:205:PRO:HD3	2.42	0.49
4:O:249:LEU:CB	4:O:283:ILE:HG12	2.41	0.49
7:1:370:VAL:O	7:1:370:VAL:HG12	2.11	0.49
7:1:530:GLU:O	7:1:534:GLY:N	2.26	0.49
7:1:558:GLY:N	7:1:588:MET:O	2.38	0.49
7:1:67:VAL:O	7:1:71:LEU:HG	2.12	0.49
7:1:906:LEU:O	7:1:907:SER:OG	2.26	0.49
8:2:248:PHE:CZ	8:2:272:ILE:HD11	2.47	0.49
11:5:14:ASN:HB3	11:5:16:ASP:N	2.26	0.49
12:6:115:LYS:O	12:6:116:ALA:HB2	2.13	0.49
14:8:23:PHE:HA	14:8:35:VAL:HG21	1.93	0.49
15:9:203:ILE:CG2	15:9:204:THR:N	2.46	0.49
15:9:55:GLY:HA3	15:9:112:TYR:CE1	2.48	0.49
19:B:109:ILE:HD13	19:B:114:LEU:HG	1.93	0.49
2:H:101:ILE:HD11	2:H:140:VAL:HG11	1.93	0.49
2:H:345:LEU:N	2:H:345:LEU:HD23	2.26	0.49
2:H:365:GLU:CD	2:H:368:ILE:HG23	2.32	0.49
2:H:99:THR:OG1	2:H:140:VAL:CG2	2.60	0.49
1:I:197:ILE:CG1	1:I:235:LEU:HD11	2.40	0.49
1:I:251:VAL:HB	1:I:254:GLU:CD	2.32	0.49
1:I:361:LYS:HE2	1:I:390:LEU:O	2.11	0.49
5:J:79:ALA:O	5:J:80:MET:HG3	2.10	0.49
1:I:259:TYR:OH	6:K:276:ASP:OD1	2.30	0.49
4:M:223:VAL:HG13	4:M:352:ILE:HG12	1.95	0.49
3:L:253:ILE:CG1	4:M:308:ARG:HH22	2.14	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:N:249:CYS:HA	7:N:252:LEU:HB3	1.94	0.49
7:N:570:LEU:HB3	7:N:578:LEU:O	2.12	0.49
11:R:197:ALA:O	11:R:201:PHE:HD2	1.96	0.49
11:R:79:ASP:O	11:R:82:LYS:HB3	2.12	0.49
12:S:115:LYS:O	12:S:116:ALA:HB2	2.13	0.49
18:Z:164:GLY:CA	18:Z:167:ALA:CB	2.77	0.49
18:Z:259:PHE:O	18:Z:262:PHE:N	2.39	0.49
4:O:171:ARG:NH1	4:O:263:ASP:OD1	2.46	0.49
4:O:369:HIS:ND1	4:O:369:HIS:N	2.60	0.49
7:1:451:ALA:HA	7:1:484:ALA:HA	1.93	0.49
7:1:573:ASP:CG	7:1:575:ASP:N	2.66	0.49
7:1:601:ARG:HE	7:1:605:VAL:HG21	1.77	0.49
7:1:612:ASP:HB3	7:1:647:HIS:CB	2.43	0.49
7:1:770:TRP:HA	7:1:773:PHE:CE1	2.48	0.49
7:1:904:LYS:O	7:1:905:PRO:O	2.30	0.49
9:3:170:GLN:O	9:3:173:THR:HG22	2.12	0.49
9:3:315:MET:HG2	9:3:361:HIS:HD2	1.77	0.49
9:3:317:TRP:CZ2	9:3:321:VAL:HG22	2.48	0.49
9:3:382:LEU:O	9:3:384:LEU:N	2.41	0.49
9:3:396:LEU:O	9:3:400:LYS:CA	2.60	0.49
10:4:179:ALA:C	10:4:181:SER:H	2.16	0.49
10:4:297:ARG:CD	10:4:333:GLN:HB3	2.41	0.49
10:4:61:GLY:C	10:4:63:ALA:N	2.64	0.49
10:4:85:ALA:C	10:4:89:VAL:HG23	2.31	0.49
11:5:286:TRP:CD1	11:5:287:LEU:HD13	2.48	0.49
11:5:28:LEU:HB2	11:5:31:HIS:CG	2.47	0.49
12:6:322:VAL:O	12:6:325:LYS:N	2.46	0.49
10:4:400:ALA:HB2	14:8:262:LEU:HD11	1.94	0.49
20:C:67:ILE:HG21	20:C:109:LEU:HD21	1.95	0.49
1:I:249:ARG:O	5:J:232:ARG:NH2	2.43	0.49
5:J:161:ILE:CG2	5:J:203:VAL:HG21	2.38	0.49
6:K:353:ASN:HB2	6:K:393:ILE:HG12	1.94	0.49
3:L:148:VAL:HA	3:L:167:PRO:CG	2.38	0.49
3:L:148:VAL:HG11	3:L:170:CYS:SG	2.52	0.49
4:M:202:ILE:HG23	4:M:327:LYS:HG2	1.94	0.49
7:N:377:HIS:ND1	7:N:382:SER:HB3	2.28	0.49
7:N:69:TYR:HE1	12:S:240:LEU:HD21	1.77	0.49
7:N:900:TYR:HA	7:N:917:THR:H	1.76	0.49
8:O:34:TRP:H	16:W:18:ASN:HD22	1.58	0.49
9:P:315:MET:HG2	9:P:361:HIS:HD2	1.77	0.49
10:Q:122:ARG:C	10:Q:124:PHE:N	2.66	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:R:110:TYR:O	11:R:114:ILE:HG12	2.13	0.49
11:R:167:LEU:O	11:R:170:GLU:CG	2.61	0.49
12:S:69:THR:CB	12:S:163:VAL:CG1	2.90	0.49
14:U:101:LEU:HD23	14:U:138:TYR:CE2	2.45	0.49
15:V:224:SER:OG	15:V:225:TRP:N	2.44	0.49
16:W:12:ASN:HA	16:W:16:MET:HB2	1.94	0.49
4:0:310:MET:HE2	4:0:339:ASP:HB2	1.92	0.49
7:1:11:LEU:CD2	13:7:120:LYS:CG	2.88	0.49
7:1:470:ASN:H	7:1:474:ARG:HB3	1.66	0.49
7:1:17:PRO:O	7:1:54:PHE:HE2	1.95	0.49
7:1:788:VAL:O	7:1:881:PRO:N	2.45	0.49
8:2:25:LEU:O	8:2:29:TYR:N	2.31	0.49
8:2:4:VAL:HG13	8:2:26:GLU:CD	2.28	0.49
8:2:325:ASP:OD1	9:3:372:ARG:HB2	2.11	0.49
10:4:122:ARG:C	10:4:124:PHE:N	2.66	0.49
10:4:413:SER:HA	10:4:416:ASN:ND2	2.28	0.49
11:5:37:VAL:O	11:5:40:GLU:HB3	2.13	0.49
12:6:356:SER:O	12:6:359:PRO:HD2	2.13	0.49
12:6:463:MET:HB3	12:6:466:ILE:CD1	2.40	0.49
14:8:17:LEU:HD12	15:9:39:LEU:CD1	2.38	0.49
14:8:131:LEU:HD13	14:8:199:LYS:CD	2.43	0.49
16:AA:12:ASN:HA	16:AA:16:MET:HB2	1.94	0.49
21:D:49:ARG:NH2	21:D:58:GLU:OE2	2.31	0.49
2:H:195:LEU:HD13	2:H:235:ALA:CB	2.42	0.49
2:H:263:MET:O	2:H:267:LYS:HD3	2.13	0.49
1:I:102:LEU:HD13	1:I:136:LEU:HD22	1.95	0.49
1:I:331:THR:HG21	1:I:337:LEU:HD21	1.94	0.49
5:J:309:GLY:O	5:J:310:ARG:HB2	2.13	0.49
6:K:334:PRO:O	6:K:334:PRO:HD2	2.13	0.49
3:L:149:ILE:O	3:L:153:LEU:HD23	2.12	0.49
3:L:173:TYR:CG	3:L:173:TYR:O	2.66	0.49
3:L:166:PRO:HB3	3:L:274:LYS:HZ1	1.77	0.49
3:L:331:ILE:O	3:L:335:SER:OG	2.11	0.49
3:L:335:SER:HB3	3:L:338:PHE:HD2	1.78	0.49
4:M:90:VAL:CG1	4:M:164:LEU:CD1	2.90	0.49
4:M:237:ALA:HB3	4:M:284:PHE:HE2	1.77	0.49
4:M:343:LEU:HB3	4:M:351:LYS:NZ	2.27	0.49
4:M:413:THR:OG1	4:M:414:GLU:OE2	2.30	0.49
10:Q:2:ALA:N	10:Q:33:ARG:CB	2.76	0.49
11:R:188:CYS:HB3	11:R:193:ASP:O	2.13	0.49
12:S:318:GLN:O	12:S:319:HIS:C	2.50	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:S:472:PRO:CB	12:S:476:PHE:CE2	2.78	0.49
18:Z:671:ALA:O	18:Z:675:PHE:CA	2.53	0.49
4:0:378:ASP:O	4:0:417:HIS:HB2	2.12	0.49
7:1:249:CYS:HA	7:1:252:LEU:HB3	1.94	0.49
7:1:490:ARG:O	7:1:519:VAL:HG21	2.13	0.49
7:1:557:TYR:HD1	7:1:588:MET:HB3	1.78	0.49
7:1:35:TRP:HE3	7:1:67:VAL:HG13	1.78	0.49
8:2:366:LEU:O	8:2:366:LEU:HG	2.12	0.49
9:3:150:ALA:CB	9:3:166:LEU:HD23	2.43	0.49
9:3:209:ILE:CG2	9:3:226:TYR:HH	2.21	0.49
9:3:406:VAL:HG12	9:3:407:ASP:N	2.26	0.49
10:4:203:PRO:CG	10:4:204:PRO:CD	2.90	0.49
13:7:337:LYS:HA	13:7:340:ILE:HB	1.93	0.49
14:8:81:MET:HG3	15:9:91:PHE:CE1	2.47	0.49
16:AA:85:THR:O	16:AA:89:GLY:N	2.29	0.49
18:AC:792:ALA:O	18:AC:795:GLY:N	2.41	0.49
2:H:112:ILE:HA	2:H:122:VAL:HA	1.95	0.49
2:H:349:GLU:O	2:H:352:THR:OG1	2.29	0.49
1:I:227:PRO:HB3	1:I:228:PRO:HD2	1.95	0.49
1:I:414:VAL:CG1	1:I:415:THR:H	2.20	0.49
5:J:199:LEU:HD22	5:J:317:PHE:CE2	2.47	0.49
5:J:154:LEU:HD22	5:J:317:PHE:CE2	2.47	0.49
3:L:181:THR:OG1	33:L:401:ADP:O3B	2.23	0.49
8:O:4:VAL:HG23	8:O:26:GLU:CD	2.28	0.49
10:Q:86:ALA:O	10:Q:90:ARG:HB2	2.12	0.49
12:S:356:SER:O	12:S:359:PRO:HD2	2.13	0.49
14:U:122:VAL:HG22	14:U:137:ALA:CA	2.33	0.49
14:U:94:TRP:O	14:U:121:LEU:HD12	2.12	0.49
14:U:35:VAL:O	14:U:96:HIS:HA	2.13	0.49
15:V:304:LEU:O	15:V:308:VAL:HG23	2.13	0.49
15:V:71:ASP:OD2	15:V:104:ARG:HD2	2.13	0.49
14:U:81:MET:HG3	15:V:91:PHE:CE1	2.47	0.49
14:U:74:TYR:HD1	15:V:98:MET:CE	2.22	0.49
4:0:413:THR:HG1	4:0:414:GLU:H	1.59	0.49
7:1:528:ALA:O	7:1:532:MET:HG2	2.13	0.49
7:1:570:LEU:HA	7:1:578:LEU:HB3	1.95	0.49
7:1:732:LEU:O	7:1:736:ILE:N	2.34	0.49
9:3:196:VAL:O	9:3:197:LYS:CB	2.60	0.49
10:4:296:ASN:O	10:4:337:ARG:NH2	2.46	0.49
20:C:227:ASP:OD2	10:4:84:LYS:HD3	2.13	0.49
10:4:86:ALA:O	10:4:90:ARG:HB2	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:8:106:ILE:HG13	14:8:155:PHE:CZ	2.48	0.49
14:8:33:LYS:HG3	14:8:34:ARG:N	2.28	0.49
23:F:31:ILE:HD11	23:F:158:PRO:CD	2.43	0.49
2:H:160:THR:HG21	2:H:256:MET:SD	2.53	0.49
2:H:299:MET:O	2:H:303:ILE:N	2.34	0.49
2:H:368:ILE:HG13	2:H:368:ILE:O	2.12	0.49
1:I:109:VAL:HG13	1:I:149:SER:OG	2.13	0.49
5:J:295:THR:OG1	5:J:296:ASN:N	2.43	0.49
6:K:363:TYR:HB3	6:K:403:TYR:CE1	2.48	0.49
6:K:380:GLN:O	6:K:384:MET:SD	2.71	0.49
6:K:70:LYS:CA	6:K:73:LEU:HD12	2.42	0.49
3:L:172:LEU:HD13	3:L:180:LYS:CB	2.43	0.49
3:L:281:ARG:O	3:L:281:ARG:HG3	2.13	0.49
3:L:313:LEU:CD2	3:L:332:VAL:CG2	2.91	0.49
3:L:363:VAL:HG23	3:L:364:GLN:N	1.93	0.49
4:M:121:CYS:O	4:M:122:ALA:HB2	2.13	0.49
4:M:204:LEU:CB	4:M:205:PRO:HD3	2.42	0.49
4:M:258:GLN:HG3	4:M:263:ASP:HB3	1.93	0.49
4:M:299:GLU:O	4:M:300:LYS:CG	2.61	0.49
4:M:347:ARG:CG	4:M:347:ARG:HH11	2.24	0.49
7:N:17:PRO:O	7:N:54:PHE:HE2	1.95	0.49
7:N:770:TRP:HA	7:N:773:PHE:CE1	2.48	0.49
8:O:274:LEU:HD23	8:O:275:LEU:HA	1.94	0.49
12:S:333:ILE:HD13	12:S:348:PHE:HE1	1.78	0.49
13:T:175:TYR:O	13:T:183:PRO:CG	2.60	0.49
13:T:280:GLU:O	13:T:316:TYR:HA	2.12	0.49
13:T:346:LEU:HD21	15:V:292:MET:CE	2.42	0.49
15:V:160:PHE:CB	15:V:202:SER:HA	2.43	0.49
24:G:166:GLN:HE21	4:O:383:GLU:CA	2.25	0.49
7:1:457:ILE:O	7:1:461:LEU:HG	2.13	0.49
7:1:526:ALA:O	7:1:529:ILE:HB	2.12	0.49
8:2:274:LEU:HD23	8:2:275:LEU:HA	1.94	0.49
9:3:132:THR:HG22	9:3:142:ARG:NH1	2.28	0.49
10:4:114:ILE:HG13	10:4:129:LEU:HD22	1.93	0.49
10:4:233:TYR:HA	10:4:254:MET:SD	2.52	0.49
10:4:2:ALA:N	10:4:33:ARG:CB	2.76	0.49
11:5:122:THR:O	11:5:126:LYS:HG2	2.13	0.49
12:6:411:SER:HB3	12:6:447:ILE:HD12	1.95	0.49
10:4:400:ALA:HB1	14:8:262:LEU:HD11	1.95	0.49
14:8:275:LEU:CD1	14:8:279:LYS:CD	2.91	0.49
15:9:150:SER:OG	15:9:156:VAL:CG1	2.57	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:9:160:PHE:CB	15:9:202:SER:HA	2.43	0.49
15:9:304:LEU:O	15:9:308:VAL:HG23	2.13	0.49
19:B:38:THR:HG21	19:B:171:LYS:HB2	1.93	0.49
20:C:191:ILE:CG2	20:C:229:LEU:CD2	2.91	0.49
1:I:365:PHE:HD1	1:I:380:LEU:HD22	1.73	0.49
5:J:167:LEU:N	5:J:168:PRO:CD	2.76	0.49
5:J:320:PRO:O	5:J:325:ARG:CZ	2.53	0.49
5:J:64:GLN:O	5:J:67:GLN:HB2	2.13	0.49
6:K:172:ILE:O	6:K:176:GLU:N	2.44	0.49
6:K:299:PHE:CD1	6:K:303:VAL:CG1	2.95	0.49
6:K:202:VAL:N	6:K:307:VAL:O	2.39	0.49
3:L:135:ILE:HG21	3:L:182:LEU:HG	1.95	0.49
3:L:191:LEU:CD1	3:L:195:PHE:HZ	2.25	0.49
3:L:194:ASN:CG	3:L:228:CYS:SG	2.91	0.49
3:L:304:PRO:CA	3:L:308:ALA:HB3	2.43	0.49
4:M:152:GLY:O	4:M:161:LEU:N	2.46	0.49
4:M:351:LYS:O	4:M:352:ILE:HD13	2.13	0.49
8:O:115:LYS:HA	8:O:118:ILE:HD12	1.95	0.49
10:Q:413:SER:HA	10:Q:416:ASN:ND2	2.28	0.49
14:U:23:PHE:HD2	14:U:126:VAL:HB	1.74	0.49
14:U:46:LYS:CG	14:U:46:LYS:O	2.61	0.49
7:1:517:GLY:HA3	7:1:554:LEU:HD12	1.94	0.49
7:1:341:PHE:CE2	7:1:743:ASN:HB3	2.48	0.49
8:2:341:LEU:HA	8:2:345:GLN:OE1	2.13	0.49
9:3:286:LEU:O	9:3:290:ILE:HG12	2.13	0.49
10:4:258:LYS:CG	10:4:266:ASP:HB2	2.43	0.49
10:4:410:VAL:HG22	15:9:256:ASN:CB	2.43	0.49
11:5:167:LEU:O	11:5:170:GLU:CG	2.61	0.49
11:5:19:ILE:HD13	11:5:50:MET:HE1	1.94	0.49
12:6:230:PHE:CG	12:6:231:LEU:N	2.81	0.49
12:6:326:GLN:NE2	12:6:356:SER:CB	2.71	0.49
13:7:144:ALA:HA	13:7:147:ILE:HD12	1.95	0.49
14:8:168:GLU:OE1	14:8:168:GLU:N	2.44	0.49
14:8:263:ALA:HB3	15:9:292:MET:SD	2.53	0.49
16:AA:52:ILE:HA	16:AA:60:VAL:HA	1.95	0.49
1:I:334:ILE:HD12	1:I:337:LEU:HD23	1.94	0.49
5:J:161:ILE:HD11	5:J:199:LEU:HG	1.91	0.49
5:J:137:LEU:HB2	5:J:224:ILE:CD1	2.41	0.49
6:K:102:ILE:HD12	6:K:102:ILE:N	2.28	0.49
6:K:188:PHE:HE2	6:K:304:ASN:OD1	1.96	0.49
6:K:322:LEU:HD13	6:K:330:LYS:CE	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:113:ARG:HG3	3:L:113:ARG:NH1	2.23	0.49
3:L:122:MET:HE1	3:L:218:MET:HG3	1.94	0.49
3:L:205:ASP:OD2	3:L:210:GLU:CG	2.61	0.49
3:L:331:ILE:HG23	3:L:371:VAL:CG2	2.43	0.49
4:M:217:ILE:CG1	4:M:218:GLN:H	2.14	0.49
4:M:284:PHE:CD1	4:M:284:PHE:C	2.86	0.49
7:N:490:ARG:O	7:N:519:VAL:HG21	2.13	0.49
7:N:35:TRP:HE3	7:N:67:VAL:HG13	1.78	0.49
7:N:725:MET:O	7:N:728:PHE:HB3	2.13	0.49
9:P:179:LYS:HA	9:P:182:ARG:HB3	1.95	0.49
9:P:274:VAL:HG13	9:P:287:VAL:HG23	1.94	0.49
10:Q:339:ILE:O	10:Q:387:ILE:HD12	2.12	0.49
12:S:319:HIS:CG	12:S:320:THR:N	2.80	0.49
12:S:322:VAL:O	12:S:325:LYS:N	2.46	0.49
13:T:183:PRO:O	13:T:183:PRO:CG	2.60	0.49
13:T:269:ASP:OD1	13:T:270:GLU:N	2.44	0.49
14:U:131:LEU:HD13	14:U:199:LYS:CD	2.43	0.49
14:U:275:LEU:CD1	14:U:279:LYS:CD	2.91	0.49
4:0:121:CYS:O	4:0:122:ALA:HB2	2.13	0.48
7:1:616:ARG:NE	7:1:650:TYR:CG	2.74	0.48
7:1:592:GLY:N	7:1:624:PHE:O	2.44	0.48
9:3:186:ILE:HG23	9:3:208:LYS:HZ1	1.77	0.48
10:4:339:ILE:HG21	10:4:385:LEU:CD2	2.43	0.48
11:5:304:TYR:HD1	11:5:304:TYR:N	2.08	0.48
7:1:69:TYR:HE1	12:6:240:LEU:HD21	1.77	0.48
12:6:482:PHE:CD1	12:6:486:ILE:HD11	2.47	0.48
14:8:29:VAL:HG22	14:8:33:LYS:HB3	1.95	0.48
16:AA:124:LEU:HA	16:AA:127:LEU:HD12	1.95	0.48
19:B:202:LEU:HA	19:B:205:VAL:CG1	2.42	0.48
20:C:44:VAL:CG2	20:C:183:LEU:HD12	2.43	0.48
21:D:3:ARG:NH1	24:G:9:ASP:OD1	2.46	0.48
2:H:215:PHE:CZ	2:H:342:GLU:HG2	2.48	0.48
2:H:59:ILE:O	2:H:63:THR:N	2.30	0.48
1:I:108:SER:OG	1:I:153:ASN:O	2.21	0.48
1:I:204:PRO:HG3	1:I:211:TYR:HE2	1.73	0.48
1:I:329:MET:HG3	1:I:347:ILE:HD13	1.94	0.48
1:I:375:ALA:HB2	1:I:414:VAL:O	2.13	0.48
5:J:348:ALA:HA	5:J:351:MET:HB2	1.94	0.48
6:K:287:ARG:O	6:K:291:GLU:N	2.30	0.48
6:K:95:ALA:HB2	6:K:101:ALA:HB2	1.94	0.48
4:M:139:LEU:O	4:M:140:VAL:CB	2.60	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:223:VAL:HG12	4:M:224:LEU:H	1.76	0.48
4:M:198:LEU:HD12	4:M:240:CYS:SG	2.49	0.48
4:M:282:ILE:HG23	4:M:329:ILE:HD12	1.94	0.48
4:M:250:LYS:HA	4:M:284:PHE:HB3	1.95	0.48
7:N:517:GLY:HA3	7:N:554:LEU:HD12	1.94	0.48
7:N:341:PHE:CE2	7:N:743:ASN:HB3	2.48	0.48
9:P:132:THR:HG22	9:P:142:ARG:NH1	2.28	0.48
9:P:150:ALA:CB	9:P:166:LEU:HD23	2.43	0.48
10:Q:212:MET:CG	10:Q:235:ALA:HB3	2.42	0.48
11:R:259:TYR:CE1	11:R:260:LEU:HB2	2.47	0.48
12:S:411:SER:HB3	12:S:447:ILE:HD12	1.95	0.48
14:U:106:ILE:HG13	14:U:155:PHE:CZ	2.48	0.48
14:U:173:GLU:HG2	15:V:152:LYS:HG2	1.95	0.48
14:U:29:VAL:HG22	14:U:33:LYS:HB3	1.95	0.48
16:W:10:VAL:HG12	16:W:112:PHE:CD2	2.48	0.48
8:O:70:ARG:HB2	16:W:17:ARG:HH22	1.77	0.48
4:O:217:ILE:CG1	4:O:218:GLN:N	2.53	0.48
4:O:250:LYS:HA	4:O:284:PHE:HB3	1.95	0.48
4:O:351:LYS:O	4:O:352:ILE:HD13	2.13	0.48
7:1:138:PHE:O	7:1:142:LEU:N	2.41	0.48
7:1:7:GLY:O	7:1:11:LEU:N	2.31	0.48
9:3:179:LYS:HA	9:3:182:ARG:HB3	1.95	0.48
9:3:420:ASP:C	9:3:422:ASN:N	2.66	0.48
10:4:66:LEU:CB	10:4:109:LEU:HD13	2.40	0.48
11:5:127:THR:O	11:5:131:THR:N	2.46	0.48
11:5:228:MET:CE	11:5:271:PHE:CE2	2.88	0.48
11:5:371:LYS:NZ	11:5:371:LYS:HB2	2.28	0.48
11:5:79:ASP:O	11:5:82:LYS:HB3	2.12	0.48
13:7:141:LEU:HD12	13:7:142:ILE:N	2.28	0.48
15:9:309:PHE:O	15:9:310:LYS:HG2	2.13	0.48
24:G:103:LEU:HD12	24:G:104:PRO:HD2	1.95	0.48
24:G:170:THR:HG21	4:O:383:GLU:OE2	2.13	0.48
2:H:102:ILE:O	2:H:103:ASN:CB	2.59	0.48
2:H:224:LEU:HD23	2:H:227:ARG:NH1	2.21	0.48
2:H:273:PHE:HD1	2:H:318:LEU:CB	2.26	0.48
6:K:265:ASP:O	6:K:266:GLU:HB2	2.13	0.48
6:K:52:GLU:HA	6:K:55:GLU:HB2	1.95	0.48
3:L:101:ASP:HB3	3:L:105:LEU:N	2.29	0.48
3:L:223:ARG:HG3	3:L:223:ARG:NH1	2.28	0.48
3:L:252:GLU:HA	3:L:255:ARG:NH2	2.28	0.48
3:L:353:PHE:C	3:L:356:ARG:HB2	2.33	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:215:LEU:CD2	4:M:217:ILE:HG22	2.36	0.48
4:M:369:HIS:N	4:M:369:HIS:ND1	2.60	0.48
7:N:601:ARG:HE	7:N:605:VAL:HG21	1.77	0.48
7:N:729:GLY:O	7:N:733:ALA:N	2.26	0.48
7:N:732:LEU:O	7:N:736:ILE:N	2.34	0.48
10:Q:179:ALA:C	10:Q:181:SER:H	2.16	0.48
11:R:123:ALA:O	11:R:126:LYS:HG3	2.13	0.48
15:V:55:GLY:HA3	15:V:112:TYR:CE1	2.48	0.48
18:Z:200:ALA:CA	18:Z:201:GLU:CB	2.91	0.48
4:0:152:GLY:O	4:0:161:LEU:N	2.46	0.48
7:1:570:LEU:HB3	7:1:578:LEU:O	2.12	0.48
10:4:363:ARG:O	10:4:366:SER:OG	2.31	0.48
11:5:197:ALA:HB1	11:5:201:PHE:HD2	1.69	0.48
11:5:205:VAL:HG11	11:5:245:GLU:HB2	1.94	0.48
11:5:221:THR:HG22	11:5:253:LEU:HD13	1.93	0.48
12:6:238:ALA:HA	12:6:241:ARG:HB2	1.95	0.48
12:6:372:LEU:HD11	12:6:399:ARG:NH1	2.28	0.48
12:6:476:PHE:C	12:6:480:ILE:CD1	2.70	0.48
16:AA:10:VAL:HG12	16:AA:112:PHE:CD2	2.48	0.48
18:AC:193:PRO:O	18:AC:197:ALA:N	2.29	0.48
18:AC:216:MET:O	18:AC:219:LYS:N	2.46	0.48
2:H:102:ILE:O	2:H:103:ASN:HB3	2.14	0.48
2:H:129:VAL:O	2:H:129:VAL:HG23	2.13	0.48
2:H:218:PRO:CG	2:H:429:TYR:CD2	2.96	0.48
2:H:220:THR:HG21	2:H:343:PHE:C	2.34	0.48
2:H:87:LEU:O	2:H:91:GLN:N	2.46	0.48
1:I:236:ALA:HB2	1:I:283:PHE:CE1	2.49	0.48
1:I:379:THR:C	1:I:381:ASP:N	2.67	0.48
5:J:149:GLU:O	5:J:150:MET:HB3	2.13	0.48
5:J:320:PRO:HG3	5:J:355:SER:CA	2.34	0.48
6:K:119:ILE:H	6:K:119:ILE:HD12	1.78	0.48
3:L:216:ARG:HH22	6:K:234:GLU:CA	2.26	0.48
6:K:263:PHE:C	6:K:263:PHE:CD1	2.87	0.48
6:K:407:ILE:O	6:K:409:LYS:N	2.42	0.48
5:J:29:GLU:HB3	6:K:44:TYR:CE2	2.48	0.48
6:K:90:GLY:C	6:K:130:VAL:HG23	2.30	0.48
3:L:320:ILE:O	3:L:322:LYS:HD2	2.13	0.48
3:L:331:ILE:CD1	3:L:367:PHE:CE1	2.95	0.48
3:L:338:PHE:HA	3:L:378:LYS:HZ3	1.75	0.48
4:M:91:SER:OG	4:M:151:VAL:HG23	2.14	0.48
4:M:171:ARG:NH1	4:M:263:ASP:OD1	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:P:82:LEU:O	9:P:86:ASN:CB	2.62	0.48
4:0:264:GLY:HA3	4:0:309:THR:HG22	1.95	0.48
4:0:432:LYS:O	4:0:433:ALA:HB2	2.14	0.48
7:1:164:GLU:HG3	7:1:165:LYS:HD3	1.96	0.48
7:1:337:LEU:HA	7:1:340:GLN:HB3	1.95	0.48
7:1:402:PHE:CD1	7:1:402:PHE:C	2.86	0.48
7:1:470:ASN:N	7:1:474:ARG:CG	2.77	0.48
7:1:566:LEU:HA	7:1:569:SER:HB2	1.96	0.48
7:1:624:PHE:CE1	7:1:658:ILE:HG21	2.49	0.48
8:2:248:PHE:O	8:2:251:LEU:N	2.47	0.48
9:3:51:GLU:OE2	9:3:66:ILE:CB	2.62	0.48
11:5:188:CYS:HB3	11:5:193:ASP:O	2.13	0.48
12:6:328:VAL:O	12:6:329:HIS:C	2.52	0.48
12:6:82:LEU:HA	12:6:85:ALA:HB3	1.96	0.48
13:7:123:LEU:CG	13:7:140:GLN:C	2.82	0.48
14:8:72:HIS:HE1	14:8:111:LEU:HD13	1.70	0.48
14:8:94:TRP:CZ2	14:8:109:ASN:ND2	2.81	0.48
13:7:346:LEU:HD21	15:9:292:MET:CE	2.42	0.48
22:E:36:ARG:HA	22:E:41:VAL:HG12	1.94	0.48
2:H:206:ILE:CG1	2:H:207:GLU:N	2.73	0.48
2:H:208:PRO:O	2:H:210:LYS:HG3	2.14	0.48
1:I:309:MET:HE2	1:I:341:LEU:HD11	1.94	0.48
6:K:100:THR:HG22	6:K:112:TYR:CD1	2.48	0.48
6:K:251:PHE:CD2	6:K:295:GLN:HB3	2.49	0.48
6:K:303:VAL:O	6:K:305:VAL:N	2.46	0.48
6:K:181:VAL:HG13	6:K:306:LYS:HG3	1.96	0.48
6:K:205:TYR:CD1	6:K:332:GLU:HA	2.48	0.48
6:K:403:TYR:C	6:K:407:ILE:CD1	2.66	0.48
3:L:172:LEU:CD1	3:L:180:LYS:CA	2.92	0.48
7:N:402:PHE:CD1	7:N:402:PHE:C	2.86	0.48
7:N:451:ALA:O	7:N:452:ASN:CB	2.61	0.48
7:N:573:ASP:CB	7:N:578:LEU:HB2	2.43	0.48
7:N:5:ALA:HB2	7:N:34:PHE:HB3	1.94	0.48
7:N:749:GLN:HB2	7:N:755:THR:HA	1.96	0.48
8:O:374:ILE:HG13	13:T:347:GLU:CD	2.33	0.48
10:Q:400:ALA:HB2	14:U:262:LEU:HD11	1.94	0.48
11:R:221:THR:CG2	11:R:253:LEU:HD11	2.40	0.48
11:R:205:VAL:HG11	11:R:245:GLU:HB2	1.94	0.48
11:R:371:LYS:HB2	11:R:371:LYS:NZ	2.28	0.48
12:S:348:PHE:CE2	12:S:361:PHE:CA	2.79	0.48
12:S:476:PHE:C	12:S:480:ILE:HD13	2.32	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:V:93:ALA:HA	15:V:96:LEU:HB2	1.94	0.48
18:Z:552:ASP:O	18:Z:555:ALA:HB3	2.14	0.48
4:O:139:LEU:O	4:O:140:VAL:CB	2.60	0.48
7:1:119:PRO:O	7:1:120:GLU:HG2	2.13	0.48
7:1:451:ALA:O	7:1:452:ASN:CB	2.61	0.48
7:1:749:GLN:HB2	7:1:755:THR:HA	1.96	0.48
10:4:239:TYR:C	10:4:242:ILE:HG22	2.34	0.48
10:4:412:ASP:O	10:4:416:ASN:CG	2.50	0.48
11:5:271:PHE:CD1	11:5:271:PHE:C	2.87	0.48
13:7:342:TYR:O	13:7:346:LEU:N	2.45	0.48
14:8:46:LYS:O	14:8:46:LYS:CG	2.61	0.48
16:AA:5:SER:N	16:AA:106:LYS:O	2.47	0.48
16:AA:29:GLN:HG2	16:AA:112:PHE:CD1	2.48	0.48
16:AA:68:THR:HA	16:AA:71:ILE:HD12	1.95	0.48
24:G:40:SER:HB3	24:G:187:LEU:HD22	1.93	0.48
1:I:140:ASP:OD2	1:I:142:ASP:HB2	2.13	0.48
1:I:180:PRO:HG3	1:I:240:ALA:CA	2.40	0.48
1:I:170:LEU:HD11	1:I:269:GLU:CG	2.43	0.48
1:I:230:THR:CB	1:I:353:PHE:CB	2.79	0.48
1:I:401:GLU:HG3	1:I:422:SER:HB2	1.95	0.48
6:K:93:LEU:HG	6:K:94:GLU:H	1.77	0.48
4:M:223:VAL:CG1	4:M:224:LEU:H	2.27	0.48
7:N:119:PRO:O	7:N:120:GLU:HG2	2.13	0.48
7:N:152:GLY:O	7:N:155:LEU:HB3	2.14	0.48
7:N:526:ALA:O	7:N:529:ILE:HB	2.12	0.48
7:N:570:LEU:HA	7:N:578:LEU:HB3	1.95	0.48
7:N:592:GLY:N	7:N:624:PHE:O	2.44	0.48
7:N:904:LYS:O	7:N:905:PRO:O	2.30	0.48
8:O:132:LYS:CG	8:O:162:TYR:OH	2.60	0.48
9:P:196:VAL:O	9:P:197:LYS:CB	2.60	0.48
10:Q:236:PHE:CZ	10:Q:240:ASP:OD2	2.66	0.48
10:Q:296:ASN:O	10:Q:337:ARG:NH2	2.46	0.48
11:R:122:THR:O	11:R:126:LYS:HG2	2.13	0.48
12:S:230:PHE:CG	12:S:231:LEU:N	2.81	0.48
12:S:328:VAL:O	12:S:329:HIS:C	2.52	0.48
7:N:11:LEU:CD2	13:T:120:LYS:CG	2.88	0.48
14:U:94:TRP:CZ3	14:U:121:LEU:CG	2.95	0.48
15:V:42:LEU:HD11	15:V:155:VAL:HG21	1.96	0.48
16:W:5:SER:N	16:W:106:LYS:O	2.47	0.48
16:W:17:ARG:HG3	16:W:18:ASN:HB2	1.94	0.48
4:O:205:PRO:HA	4:O:212:PHE:CE2	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:0:262:GLY:O	4:0:266:LYS:HB2	2.12	0.48
7:1:482:GLY:HA3	7:1:515:ALA:HB1	1.95	0.48
7:1:482:GLY:O	7:1:486:MET:N	2.47	0.48
7:1:475:HIS:HB2	7:1:507:VAL:HG22	1.95	0.48
7:1:573:ASP:CB	7:1:578:LEU:HB2	2.43	0.48
10:4:411:VAL:HG21	11:5:376:LEU:HD11	1.96	0.48
18:AC:668:ALA:CB	18:AC:701:ASN:CB	2.87	0.48
2:H:208:PRO:HG2	2:H:316:LYS:HZ2	1.78	0.48
1:I:108:SER:N	1:I:152:LEU:O	2.47	0.48
5:J:72:TYR:O	5:J:116:LEU:HB3	2.13	0.48
5:J:97:VAL:HB	5:J:121:TYR:O	2.13	0.48
6:K:283:ARG:O	6:K:287:ARG:CD	2.61	0.48
6:K:354:LEU:CD2	6:K:399:PHE:HZ	2.26	0.48
6:K:370:ILE:HG23	6:K:374:ASP:CB	2.40	0.48
3:L:135:ILE:HG21	3:L:182:LEU:CD2	2.44	0.48
3:L:172:LEU:HD13	3:L:180:LYS:HG2	1.95	0.48
3:L:250:ASP:O	3:L:254:GLN:CG	2.54	0.48
3:L:253:ILE:HD12	4:M:308:ARG:HH12	1.77	0.48
7:N:160:LEU:HA	7:N:163:PHE:HB2	1.96	0.48
7:N:475:HIS:HB2	7:N:507:VAL:HG22	1.95	0.48
9:P:181:GLU:O	9:P:184:GLU:HB3	2.13	0.48
9:P:200:ILE:O	9:P:203:GLN:N	2.47	0.48
9:P:317:TRP:CZ2	9:P:321:VAL:HG22	2.48	0.48
10:Q:253:TYR:CE1	10:Q:319:ILE:CG1	2.96	0.48
10:Q:258:LYS:CE	10:Q:266:ASP:HB2	2.38	0.48
11:R:219:PHE:CE1	11:R:223:THR:HG23	2.48	0.48
11:R:192:ARG:HH12	11:R:294:TYR:HB2	1.79	0.48
11:R:37:VAL:O	11:R:40:GLU:HB3	2.13	0.48
16:W:37:CYS:HA	16:W:40:LYS:HB2	1.96	0.48
7:1:336:GLU:O	7:1:340:GLN:N	2.23	0.48
8:2:370:GLN:C	13:7:340:ILE:CG2	2.80	0.48
8:2:371:ALA:HB2	13:7:340:ILE:CG2	2.26	0.48
9:3:253:THR:HB	9:3:256:ILE:HG12	1.94	0.48
11:5:110:TYR:O	11:5:114:ILE:HG12	2.13	0.48
11:5:234:PRO:CD	11:5:235:ASP:N	2.71	0.48
12:6:472:PRO:C	12:6:476:PHE:CE2	2.87	0.48
14:8:140:SER:HA	14:8:154:THR:O	2.14	0.48
15:9:290:VAL:O	15:9:294:SER:HB3	2.14	0.48
18:AC:209:MET:O	18:AC:241:PRO:HA	2.14	0.48
2:H:166:VAL:HG23	2:H:166:VAL:O	2.12	0.48
2:H:362:MET:HG3	2:H:364:VAL:HG13	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:120:HIS:CB	1:I:133:VAL:O	2.62	0.48
1:I:197:ILE:CG2	1:I:198:LYS:N	2.77	0.48
6:K:109:SER:CB	6:K:111:TYR:CZ	2.91	0.48
6:K:90:GLY:O	6:K:130:VAL:HG23	2.02	0.48
3:L:331:ILE:HG23	3:L:371:VAL:HG21	1.96	0.48
4:M:253:GLY:HA3	4:M:290:ALA:HB3	1.96	0.48
4:M:304:ARG:HD3	4:M:304:ARG:HA	1.60	0.48
10:Q:225:TRP:HD1	10:Q:257:CYS:HA	1.79	0.48
10:Q:258:LYS:CG	10:Q:266:ASP:HB2	2.43	0.48
10:Q:294:SER:CA	10:Q:330:LEU:HD21	2.35	0.48
10:Q:363:ARG:O	10:Q:366:SER:OG	2.31	0.48
11:R:127:THR:O	11:R:131:THR:N	2.46	0.48
11:R:257:ARG:CG	11:R:258:GLN:N	2.77	0.48
12:S:484:LEU:HD22	13:T:349:ILE:CD1	2.40	0.48
13:T:141:LEU:HD12	13:T:142:ILE:N	2.28	0.48
13:T:269:ASP:N	13:T:269:ASP:OD1	2.47	0.48
8:O:370:GLN:C	13:T:340:ILE:CG2	2.80	0.48
25:X:186:CYS:O	25:X:190:VAL:HG23	2.14	0.48
4:O:223:VAL:HG12	4:O:224:LEU:H	1.76	0.48
7:1:583:MET:O	7:1:587:ALA:N	2.40	0.48
7:1:725:MET:O	7:1:728:PHE:HB3	2.13	0.48
9:3:82:LEU:O	9:3:86:ASN:CB	2.62	0.48
12:6:270:LEU:HA	12:6:273:LYS:HE3	1.96	0.48
16:AA:161:ASN:HB2	16:AA:168:SER:OG	2.14	0.48
18:AC:336:GLU:O	18:AC:339:ILE:N	2.47	0.48
19:B:103:TYR:CD1	19:B:103:TYR:C	2.86	0.48
20:C:198:PHE:HD1	20:C:202:MET:HB2	1.79	0.48
21:D:11:ILE:CG1	22:E:7:ILE:HG23	2.43	0.48
2:H:166:VAL:CG2	2:H:166:VAL:O	2.62	0.48
2:H:277:ILE:CD1	2:H:278:ASP:N	2.76	0.48
2:H:273:PHE:HD1	2:H:318:LEU:HB3	1.77	0.48
1:I:268:ARG:O	1:I:272:ARG:N	2.36	0.48
1:I:401:GLU:HG2	1:I:422:SER:CB	2.39	0.48
5:J:78:ARG:HH11	5:J:80:MET:HG2	1.74	0.48
6:K:154:LEU:C	6:K:155:THR:CG2	2.77	0.48
6:K:190:LEU:HA	6:K:194:ILE:HG13	1.96	0.48
6:K:244:PRO:HB3	6:K:248:ARG:NH1	2.28	0.48
3:L:244:SER:N	3:L:245:GLU:CA	2.74	0.48
3:L:253:ILE:O	3:L:254:GLN:C	2.50	0.48
4:M:249:LEU:CB	4:M:283:ILE:HG12	2.41	0.48
7:N:528:ALA:O	7:N:532:MET:HG2	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:N:546:ARG:HD3	7:N:768:GLN:CD	2.34	0.48
8:O:371:ALA:HB2	13:T:340:ILE:CG2	2.26	0.48
8:O:43:ASP:O	8:O:46:GLN:HB2	2.14	0.48
9:P:286:LEU:O	9:P:290:ILE:HG12	2.13	0.48
9:P:344:THR:CA	9:P:348:GLU:CB	2.67	0.48
10:Q:369:ILE:HD12	10:Q:376:GLY:O	2.14	0.48
12:S:372:LEU:HD11	12:S:399:ARG:NH1	2.28	0.48
12:S:487:HIS:C	12:S:487:HIS:HD1	2.16	0.48
14:U:263:ALA:HB3	15:V:292:MET:SD	2.53	0.48
15:V:309:PHE:O	15:V:310:LYS:HG2	2.13	0.48
15:V:38:LEU:O	15:V:41:MET:HB3	2.13	0.48
18:Z:209:MET:O	18:Z:241:PRO:HA	2.14	0.48
18:Z:271:MET:C	18:Z:273:ASN:N	2.67	0.48
4:0:416:THR:O	4:0:420:TYR:CD2	2.67	0.48
4:0:90:VAL:HG23	4:0:127:SER:HG	1.78	0.48
7:1:342:LEU:O	7:1:346:ASN:N	2.38	0.48
7:1:360:VAL:CG1	7:1:361:ARG:N	2.77	0.48
7:1:377:HIS:ND1	7:1:382:SER:HB3	2.28	0.48
7:1:366:HIS:NE2	7:1:392:TRP:CD2	2.82	0.48
7:1:885:MET:HB3	7:1:888:GLN:CB	2.44	0.48
8:2:115:LYS:HA	8:2:118:ILE:HD12	1.95	0.48
9:3:181:GLU:O	9:3:184:GLU:HB3	2.13	0.48
9:3:200:ILE:O	9:3:203:GLN:N	2.47	0.48
11:5:192:ARG:NH1	11:5:192:ARG:HG2	2.27	0.48
14:8:35:VAL:O	14:8:96:HIS:HA	2.13	0.48
14:8:43:TRP:CA	14:8:48:LEU:HD21	2.42	0.48
14:8:173:GLU:HG2	15:9:152:LYS:HG2	1.95	0.48
16:AA:37:CYS:HA	16:AA:40:LYS:HB2	1.96	0.48
24:G:71:GLY:HA3	24:G:221:PHE:CZ	2.48	0.48
24:G:40:SER:OG	24:G:41:LYS:N	2.46	0.48
1:I:151:LEU:O	1:I:160:ILE:N	2.34	0.48
1:I:193:GLN:HG3	1:I:351:ILE:HG23	1.95	0.48
5:J:228:ALA:O	5:J:229:ARG:HB2	2.13	0.48
5:J:133:PRO:CB	5:J:237:MET:HE1	2.42	0.48
5:J:80:MET:SD	5:J:86:LEU:HB2	2.54	0.48
6:K:251:PHE:CD2	6:K:295:GLN:CB	2.97	0.48
6:K:296:MET:HE1	6:K:307:VAL:HG21	1.96	0.48
6:K:354:LEU:HD21	6:K:399:PHE:CE2	2.49	0.48
6:K:54:LEU:HG	6:K:55:GLU:N	2.28	0.48
5:J:60:ARG:HB2	6:K:75:ALA:HB1	1.96	0.48
3:L:245:GLU:O	4:M:300:LYS:O	2.32	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:346:VAL:CG2	3:L:374:VAL:HG11	2.44	0.48
3:L:64:LEU:N	3:L:68:LYS:O	2.47	0.48
3:L:205:ASP:O	4:M:261:ILE:O	2.32	0.48
4:M:310:MET:HE2	4:M:339:ASP:HB2	1.93	0.48
4:M:358:ASN:O	4:M:362:ARG:HG3	2.13	0.48
7:N:482:GLY:O	7:N:486:MET:N	2.47	0.48
7:N:557:TYR:HD1	7:N:588:MET:HB3	1.78	0.48
7:N:566:LEU:HA	7:N:569:SER:HB2	1.96	0.48
7:N:573:ASP:CG	7:N:575:ASP:H	2.18	0.48
10:Q:155:ARG:HA	10:Q:158:LYS:CD	2.43	0.48
10:Q:168:GLU:O	10:Q:172:LEU:CB	2.62	0.48
10:Q:73:VAL:O	10:Q:77:LEU:N	2.45	0.48
11:R:108:ALA:HB3	11:R:124:PHE:CD1	2.49	0.48
11:R:286:TRP:NE1	11:R:287:LEU:HD22	2.29	0.48
12:S:472:PRO:C	12:S:476:PHE:CE2	2.87	0.48
12:S:487:HIS:O	12:S:491:VAL:CG2	2.49	0.48
13:T:342:TYR:O	13:T:346:LEU:N	2.45	0.48
13:T:89:GLN:HB3	13:T:115:GLU:OE1	2.14	0.48
14:U:184:VAL:HG23	14:U:185:GLY:H	1.79	0.48
16:W:29:GLN:HG2	16:W:112:PHE:CD1	2.48	0.48
16:W:161:ASN:HB2	16:W:168:SER:OG	2.14	0.48
18:Z:336:GLU:O	18:Z:339:ILE:N	2.47	0.48
4:O:249:LEU:HD23	4:O:283:ILE:HD11	1.95	0.48
4:O:94:ILE:O	4:O:147:PRO:HG3	2.14	0.48
7:1:152:GLY:O	7:1:155:LEU:HB3	2.14	0.48
8:2:4:VAL:HA	8:2:7:PHE:HB2	1.96	0.48
9:3:190:MET:HA	9:3:193:CYS:SG	2.54	0.48
9:3:285:ASP:OD1	9:3:285:ASP:N	2.47	0.48
9:3:439:VAL:O	9:3:443:THR:HG23	2.14	0.48
10:4:253:TYR:CE1	10:4:319:ILE:CG1	2.96	0.48
10:4:369:ILE:HD12	10:4:376:GLY:O	2.14	0.48
10:4:57:LEU:C	10:4:59:LYS:N	2.51	0.48
18:AC:552:ASP:O	18:AC:555:ALA:HB3	2.14	0.48
21:D:3:ARG:HG3	24:G:123:TYR:OH	2.14	0.48
22:E:66:ASP:OD1	22:E:67:ASP:N	2.42	0.48
2:H:161:VAL:CG1	2:H:263:MET:SD	3.02	0.48
1:I:175:LYS:HD3	1:I:177:GLU:OE2	2.14	0.48
1:I:284:ILE:O	1:I:329:MET:HA	2.13	0.48
1:I:342:ILE:O	1:I:343:ARG:C	2.51	0.48
5:J:143:VAL:O	5:J:144:PRO:C	2.52	0.48
5:J:66:LEU:HD11	6:K:116:LEU:HD21	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:K:303:VAL:HG12	6:K:305:VAL:CG2	2.43	0.48
6:K:377:SER:O	6:K:381:GLU:CB	2.62	0.48
5:J:43:ARG:CG	6:K:61:ILE:HG13	2.43	0.48
3:L:338:PHE:CE1	3:L:375:ALA:CB	2.89	0.48
4:M:143:GLU:C	4:M:145:LEU:N	2.65	0.48
4:M:308:ARG:HA	4:M:311:LEU:HB2	1.95	0.48
7:N:457:ILE:O	7:N:461:LEU:HG	2.13	0.48
7:N:470:ASN:N	7:N:474:ARG:CG	2.77	0.48
7:N:482:GLY:HA3	7:N:515:ALA:HB1	1.95	0.48
7:N:624:PHE:CE1	7:N:658:ILE:HG21	2.49	0.48
8:O:366:LEU:HG	8:O:366:LEU:O	2.12	0.48
9:P:314:LEU:HD13	9:P:381:LEU:HD22	1.96	0.48
10:Q:222:GLU:CG	10:Q:225:TRP:CH2	2.90	0.48
11:R:271:PHE:C	11:R:271:PHE:CD1	2.86	0.48
11:R:271:PHE:HZ	11:R:299:MET:CE	2.27	0.48
11:R:286:TRP:CD1	11:R:287:LEU:HD13	2.48	0.48
11:R:31:HIS:O	11:R:32:ARG:HB2	2.12	0.48
11:R:320:ALA:HB1	11:R:325:VAL:O	2.14	0.48
13:T:144:ALA:HA	13:T:147:ILE:HD12	1.95	0.48
14:U:266:ILE:HD11	15:V:284:LEU:CD2	2.33	0.48
16:W:97:LEU:HD11	16:W:109:ILE:HG13	1.96	0.48
16:W:68:THR:HA	16:W:71:ILE:HD12	1.95	0.48
18:Z:216:MET:O	18:Z:219:LYS:N	2.46	0.48
18:Z:706:ILE:O	18:Z:709:THR:N	2.47	0.48
4:0:299:GLU:O	4:0:300:LYS:CG	2.61	0.47
7:1:549:ALA:HB3	7:1:581:SER:CB	2.41	0.47
10:4:137:TYR:O	10:4:142:ARG:O	2.33	0.47
11:5:123:ALA:O	11:5:126:LYS:HG3	2.13	0.47
14:8:176:LEU:HD23	15:9:217:LEU:HD12	1.96	0.47
15:9:122:LEU:HG	15:9:160:PHE:CE2	2.50	0.47
15:9:226:MET:SD	15:9:230:THR:HG21	2.54	0.47
15:9:93:ALA:HA	15:9:96:LEU:HB2	1.94	0.47
17:AB:51:ASP:N	17:AB:51:ASP:OD1	2.47	0.47
1:I:275:GLU:CB	1:I:322:ARG:NH1	2.75	0.47
6:K:166:ASP:O	33:K:501:ADP:C2	2.67	0.47
6:K:167:ILE:HG12	6:K:214:MET:CE	2.44	0.47
6:K:52:GLU:CD	7:N:596:ASN:HD21	2.17	0.47
2:H:120:LYS:HB2	4:M:90:VAL:HG22	1.96	0.47
7:N:616:ARG:CD	7:N:650:TYR:CE2	2.97	0.47
7:N:97:VAL:HA	7:N:100:ILE:HG12	1.96	0.47
8:O:153:SER:O	8:O:157:ASP:HB2	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:O:286:ALA:O	8:O:288:HIS:N	2.47	0.47
9:P:190:MET:HA	9:P:193:CYS:SG	2.54	0.47
10:Q:294:SER:O	10:Q:297:ARG:CA	2.62	0.47
14:U:33:LYS:HG3	14:U:34:ARG:N	2.28	0.47
16:W:124:LEU:HA	16:W:127:LEU:HD12	1.95	0.47
4:O:251:LEU:CD2	4:O:256:LEU:HD21	2.38	0.47
4:O:343:LEU:HB3	4:O:351:LYS:HZ3	1.79	0.47
8:2:153:SER:O	8:2:157:ASP:HB2	2.14	0.47
12:6:352:SER:HB3	17:AB:23:PRO:O	2.14	0.47
14:8:94:TRP:CZ3	14:8:121:LEU:CG	2.95	0.47
15:9:114:SER:HA	15:9:145:VAL:O	2.14	0.47
18:AC:201:GLU:O	18:AC:202:HIS:CB	2.62	0.47
18:AC:706:ILE:O	18:AC:709:THR:N	2.47	0.47
21:D:116:ASP:OD1	22:E:81:ARG:NH1	2.47	0.47
1:I:108:SER:HB3	1:I:154:HIS:ND1	2.29	0.47
1:I:388:ASP:OD1	1:I:389:ASP:N	2.47	0.47
1:I:399:CYS:HA	1:I:419:PHE:CZ	2.50	0.47
6:K:200:ARG:HH12	6:K:303:VAL:HB	1.78	0.47
6:K:354:LEU:HD21	6:K:399:PHE:HZ	1.75	0.47
3:L:132:TYR:HD1	3:L:133:SER:N	2.11	0.47
3:L:172:LEU:CD1	3:L:180:LYS:HB3	2.44	0.47
4:M:205:PRO:HA	4:M:212:PHE:CE2	2.48	0.47
7:N:366:HIS:NE2	7:N:392:TRP:CD2	2.82	0.47
7:N:624:PHE:CE1	7:N:658:ILE:HD13	2.49	0.47
9:P:285:ASP:OD1	9:P:285:ASP:N	2.47	0.47
9:P:439:VAL:O	9:P:443:THR:HG23	2.14	0.47
10:Q:339:ILE:HG21	10:Q:385:LEU:CD2	2.43	0.47
10:Q:397:TYR:CZ	14:U:258:VAL:CG2	2.92	0.47
10:Q:66:LEU:HA	10:Q:109:LEU:HD13	1.95	0.47
11:R:286:TRP:NE1	11:R:287:LEU:CD1	2.78	0.47
11:R:366:TYR:C	11:R:366:TYR:CD1	2.87	0.47
14:U:140:SER:HA	14:U:154:THR:O	2.14	0.47
14:U:6:VAL:HG23	14:U:7:GLN:N	2.29	0.47
16:W:25:ARG:NH2	16:W:143:PHE:H	2.08	0.47
16:W:52:ILE:HA	16:W:60:VAL:HA	1.95	0.47
4:O:96:LEU:CD1	4:O:145:LEU:HB3	2.42	0.47
4:O:235:LEU:HA	4:O:238:ARG:HB2	1.96	0.47
7:1:160:LEU:HA	7:1:163:PHE:HB2	1.96	0.47
7:1:624:PHE:CE1	7:1:658:ILE:HD13	2.49	0.47
9:3:209:ILE:HD13	9:3:226:TYR:CE1	2.49	0.47
10:4:239:TYR:HB2	10:4:247:ALA:CB	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:5:286:TRP:HE1	11:5:287:LEU:CD1	2.27	0.47
8:2:374:ILE:HG13	13:7:347:GLU:CD	2.33	0.47
15:9:85:GLU:N	15:9:85:GLU:OE1	2.33	0.47
16:AA:12:ASN:HA	16:AA:16:MET:CB	2.45	0.47
2:H:125:LEU:HD12	2:H:126:SER:N	2.29	0.47
2:H:297:ARG:O	2:H:300:LEU:N	2.46	0.47
1:I:193:GLN:H	1:I:193:GLN:HE21	1.63	0.47
1:I:287:ILE:CD1	1:I:288:ASP:N	2.78	0.47
1:I:354:PRO:HD2	1:I:354:PRO:O	2.14	0.47
5:J:189:TYR:CB	5:J:298:ILE:HG13	2.44	0.47
5:J:332:HIS:CE1	5:J:360:LYS:HD2	2.48	0.47
6:K:83:GLN:HG2	6:K:140:VAL:HG13	1.96	0.47
6:K:146:GLU:HG3	6:K:147:ALA:N	2.29	0.47
6:K:167:ILE:CD1	6:K:218:ALA:CB	2.72	0.47
6:K:181:VAL:O	6:K:185:LEU:CB	2.54	0.47
6:K:394:VAL:CG1	6:K:398:ASP:OD2	2.59	0.47
3:L:210:GLU:HG3	3:L:210:GLU:O	2.13	0.47
3:L:327:ASP:OD1	3:L:330:ALA:CA	2.62	0.47
3:L:40:TYR:O	3:L:44:GLU:CB	2.61	0.47
4:M:264:GLY:HA3	4:M:309:THR:HG22	1.95	0.47
7:N:360:VAL:CG2	7:N:361:ARG:H	2.20	0.47
7:N:415:HIS:O	7:N:449:ILE:HG21	2.15	0.47
7:N:612:ASP:HB3	7:N:647:HIS:CB	2.43	0.47
7:N:650:TYR:CD1	7:N:650:TYR:C	2.87	0.47
7:N:901:GLN:N	7:N:915:LYS:O	2.46	0.47
9:P:421:PRO:CD	9:P:422:ASN:N	2.68	0.47
10:Q:239:TYR:C	10:Q:242:ILE:HG22	2.34	0.47
13:T:123:LEU:CG	13:T:140:GLN:C	2.82	0.47
14:U:176:LEU:HD23	15:V:217:LEU:HD12	1.96	0.47
15:V:214:GLN:CG	15:V:215:LYS:N	2.77	0.47
18:Z:792:ALA:O	18:Z:795:GLY:N	2.41	0.47
7:1:235:LYS:O	7:1:239:GLU:N	2.41	0.47
7:1:26:LYS:O	7:1:30:VAL:HG22	2.14	0.47
10:4:137:TYR:CZ	10:4:145:GLU:OE1	2.67	0.47
10:4:66:LEU:HA	10:4:109:LEU:HD13	1.95	0.47
11:5:257:ARG:CG	11:5:258:GLN:N	2.77	0.47
11:5:228:MET:HE1	11:5:271:PHE:HE2	1.77	0.47
11:5:320:ALA:HB1	11:5:325:VAL:O	2.14	0.47
11:5:55:GLU:HA	11:5:58:CYS:SG	2.55	0.47
14:8:184:VAL:HG23	14:8:185:GLY:H	1.79	0.47
14:8:223:ASN:O	14:8:226:ILE:N	2.41	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AA:97:LEU:HD11	16:AA:109:ILE:HG13	1.96	0.47
5:J:125:LYS:CG	5:J:126:ILE:N	2.78	0.47
5:J:355:SER:H	5:J:358:GLU:HB2	1.78	0.47
5:J:40:GLN:O	5:J:44:ARG:HG3	2.14	0.47
6:K:153:MET:C	6:K:155:THR:H	2.17	0.47
6:K:238:LYS:HD2	6:K:238:LYS:O	2.14	0.47
6:K:391:ARG:HH22	6:K:395:LEU:HD12	1.80	0.47
3:L:115:VAL:O	3:L:119:VAL:CG2	2.62	0.47
3:L:226:GLN:HA	3:L:227:PRO:C	2.35	0.47
3:L:355:ILE:HG23	4:M:211:LYS:HD3	1.97	0.47
4:M:183:GLU:O	4:M:187:ASP:HB2	2.14	0.47
7:N:428:PRO:C	7:N:430:ASP:H	2.18	0.47
7:N:460:TYR:O	7:N:463:ASN:HB2	2.14	0.47
6:K:61:ILE:HD11	7:N:639:LEU:HD11	1.96	0.47
10:Q:134:VAL:CG2	10:Q:149:LEU:CD2	2.93	0.47
12:S:270:LEU:HA	12:S:273:LYS:HE3	1.96	0.47
10:Q:400:ALA:HB1	14:U:262:LEU:HD11	1.95	0.47
17:Y:51:ASP:OD1	17:Y:51:ASP:N	2.47	0.47
4:O:304:ARG:CG	4:O:308:ARG:HH21	2.27	0.47
7:1:68:PHE:HA	7:1:71:LEU:HB2	1.97	0.47
7:1:901:GLN:N	7:1:915:LYS:O	2.46	0.47
10:4:194:ARG:NH1	10:4:214:SER:HB3	2.18	0.47
11:5:268:TYR:CD2	11:5:323:PHE:CE1	3.03	0.47
14:8:277:ASN:O	14:8:280:ILE:HB	2.14	0.47
14:8:58:PHE:C	14:8:58:PHE:CD1	2.87	0.47
18:AC:200:ALA:CA	18:AC:201:GLU:CB	2.91	0.47
20:C:73:LEU:HD21	20:C:135:ILE:HG12	1.96	0.47
1:I:118:ASP:CB	1:I:120:HIS:NE2	2.77	0.47
1:I:152:LEU:HD13	1:I:157:HIS:HB3	1.96	0.47
1:I:365:PHE:CE2	1:I:383:LEU:CB	2.96	0.47
6:K:216:ALA:HB2	6:K:263:PHE:HE2	1.74	0.47
6:K:212:LYS:CA	6:K:333:PHE:CE2	2.97	0.47
6:K:378:ILE:CG1	6:K:406:VAL:CG2	2.86	0.47
3:L:152:PRO:HA	3:L:159:PHE:CE2	2.49	0.47
4:M:97:LEU:O	4:M:121:CYS:O	2.32	0.47
9:P:438:LEU:O	9:P:442:THR:CB	2.62	0.47
9:P:51:GLU:OE2	9:P:66:ILE:CB	2.62	0.47
10:Q:202:CYS:O	10:Q:206:LEU:CD2	2.61	0.47
10:Q:337:ARG:HG2	10:Q:340:GLU:CD	2.35	0.47
11:R:117:LYS:HB2	11:R:151:TYR:HE2	1.73	0.47
12:S:82:LEU:HA	12:S:85:ALA:HB3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:U:277:ASN:O	14:U:280:ILE:HB	2.14	0.47
14:U:69:PHE:CD1	16:W:60:VAL:HG21	2.50	0.47
16:W:12:ASN:HA	16:W:16:MET:CB	2.45	0.47
25:X:49:VAL:HB	25:X:212:GLU:HB2	1.96	0.47
18:Z:201:GLU:O	18:Z:202:HIS:CB	2.62	0.47
7:1:18:GLN:O	7:1:21:GLU:HB3	2.15	0.47
7:1:546:ARG:HD3	7:1:768:GLN:CD	2.34	0.47
8:2:172:TYR:CD1	8:2:172:TYR:C	2.88	0.47
8:2:286:ALA:O	8:2:288:HIS:N	2.47	0.47
8:2:364:GLU:OE1	8:2:365:MET:SD	2.73	0.47
9:3:88:MET:O	9:3:92:LYS:N	2.40	0.47
10:4:183:LEU:O	10:4:187:ARG:HB2	2.13	0.47
10:4:242:ILE:CG1	10:4:243:ASP:N	2.78	0.47
12:6:195:ILE:O	12:6:198:GLN:CB	2.63	0.47
12:6:333:ILE:HD13	12:6:348:PHE:HE1	1.78	0.47
12:6:463:MET:C	12:6:465:ASP:H	2.16	0.47
14:8:38:VAL:HA	14:8:94:TRP:HA	1.97	0.47
15:9:71:ASP:OD2	15:9:104:ARG:HD2	2.13	0.47
15:9:38:LEU:O	15:9:41:MET:HB3	2.13	0.47
16:AA:64:LEU:CG	16:AA:101:GLN:HG3	2.44	0.47
16:AA:21:PHE:CZ	16:AA:179:LEU:HB2	2.50	0.47
1:I:118:ASP:C	1:I:120:HIS:N	2.68	0.47
1:I:223:ILE:HD11	1:I:347:ILE:CG2	2.34	0.47
1:I:307:ARG:O	1:I:310:LEU:N	2.47	0.47
1:I:417:GLU:O	1:I:421:LYS:N	2.41	0.47
1:I:414:VAL:HG13	1:I:418:ASP:CB	2.45	0.47
5:J:175:PHE:HB3	5:J:180:ILE:HD11	1.97	0.47
5:J:30:GLU:C	5:J:34:ILE:HD12	2.35	0.47
6:K:270:ILE:HG23	6:K:288:ILE:HG22	1.97	0.47
3:L:152:PRO:O	3:L:156:PRO:HB3	2.15	0.47
4:M:235:LEU:HA	4:M:238:ARG:HB2	1.96	0.47
4:M:90:VAL:CG1	4:M:164:LEU:HD11	2.44	0.47
7:N:235:LYS:O	7:N:239:GLU:N	2.41	0.47
7:N:885:MET:HB3	7:N:888:GLN:CB	2.44	0.47
8:O:297:ALA:O	8:O:301:LYS:N	2.48	0.47
8:O:308:GLU:OE2	9:P:377:ARG:NE	2.46	0.47
10:Q:137:TYR:CZ	10:Q:145:GLU:OE1	2.67	0.47
10:Q:239:TYR:HB2	10:Q:247:ALA:CB	2.44	0.47
12:S:238:ALA:HA	12:S:241:ARG:HB2	1.95	0.47
12:S:463:MET:C	12:S:465:ASP:H	2.16	0.47
15:V:226:MET:SD	15:V:230:THR:HG21	2.54	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:V:255:TYR:CA	15:V:280:PRO:CG	2.87	0.47
4:0:253:GLY:HA3	4:0:290:ALA:HB3	1.96	0.47
4:0:288:LEU:H	4:0:332:THR:CG2	2.22	0.47
4:0:97:LEU:O	4:0:121:CYS:O	2.32	0.47
7:1:428:PRO:C	7:1:430:ASP:H	2.18	0.47
7:1:460:TYR:O	7:1:463:ASN:HB2	2.14	0.47
7:1:577:ILE:O	7:1:580:ARG:HB3	2.15	0.47
10:4:190:LEU:CD2	10:4:214:SER:HA	2.45	0.47
10:4:340:GLU:HB2	10:4:341:PRO:CD	2.36	0.47
14:8:275:LEU:HD11	14:8:279:LYS:HD3	1.97	0.47
15:9:255:TYR:CA	15:9:280:PRO:CG	2.87	0.47
18:AC:216:MET:O	18:AC:220:ASP:N	2.47	0.47
20:C:185:ASP:O	20:C:189:THR:HG22	2.15	0.47
20:C:87:HIS:C	20:C:87:HIS:HD1	2.18	0.47
23:F:36:THR:HA	23:F:171:GLY:HA3	1.95	0.47
2:H:119:ALA:CB	4:M:127:SER:C	2.83	0.47
1:I:231:GLY:C	1:I:353:PHE:HE2	2.15	0.47
5:J:210:THR:O	5:J:244:SER:HA	2.14	0.47
5:J:76:VAL:HA	5:J:87:VAL:HG22	1.96	0.47
6:K:313:ARG:O	6:K:315:ASP:N	2.47	0.47
6:K:322:LEU:HB3	6:K:330:LYS:HE3	1.97	0.47
3:L:138:LEU:C	3:L:140:GLU:N	2.39	0.47
3:L:87:LEU:CD1	3:L:107:ILE:CG2	2.93	0.47
3:L:87:LEU:CD2	3:L:110:TYR:HD2	2.28	0.47
7:N:164:GLU:HG3	7:N:165:LYS:HD3	1.96	0.47
7:N:475:HIS:O	7:N:479:LEU:HG	2.15	0.47
8:O:364:GLU:OE1	8:O:365:MET:SD	2.73	0.47
11:R:286:TRP:HE1	11:R:287:LEU:CD1	2.27	0.47
12:S:235:LEU:CA	12:S:250:LEU:HD23	2.44	0.47
14:U:266:ILE:HD13	15:V:248:MET:HE1	1.96	0.47
6:K:120:ASP:OD1	15:V:282:ARG:NH1	2.47	0.47
15:V:290:VAL:O	15:V:294:SER:HB3	2.14	0.47
16:W:64:LEU:CG	16:W:101:GLN:HG3	2.44	0.47
4:0:359:GLU:O	4:0:362:ARG:CA	2.63	0.47
7:1:119:PRO:CG	7:1:120:GLU:N	2.76	0.47
7:1:534:GLY:O	7:1:538:GLU:N	2.29	0.47
7:1:650:TYR:CD1	7:1:650:TYR:C	2.87	0.47
9:3:125:ILE:O	9:3:129:ARG:CB	2.63	0.47
10:4:155:ARG:HA	10:4:158:LYS:CD	2.43	0.47
10:4:168:GLU:O	10:4:172:LEU:CB	2.62	0.47
10:4:337:ARG:HG2	10:4:340:GLU:CD	2.35	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:5:191:ILE:HG22	11:5:192:ARG:H	1.77	0.47
11:5:21:GLN:HB2	11:5:286:TRP:HZ3	1.76	0.47
11:5:300:ARG:HH21	11:5:337:PHE:HZ	1.56	0.47
11:5:366:TYR:C	11:5:366:TYR:CD1	2.87	0.47
15:9:42:LEU:HD11	15:9:155:VAL:HG21	1.96	0.47
16:AA:54:LEU:CA	16:AA:58:CYS:HA	2.42	0.47
14:8:69:PHE:CD1	16:AA:60:VAL:HG21	2.50	0.47
19:B:182:LYS:HD3	19:B:197:THR:HG23	1.97	0.47
24:G:41:LYS:HG3	24:G:42:THR:HG23	1.95	0.47
2:H:333:ARG:CD	2:H:334:PRO:O	2.63	0.47
1:I:267:VAL:O	1:I:271:PHE:HB2	2.15	0.47
1:I:170:LEU:CD1	1:I:269:GLU:CG	2.92	0.47
1:I:272:ARG:O	1:I:276:GLU:HG3	2.14	0.47
1:I:401:GLU:CB	1:I:422:SER:OG	2.62	0.47
1:I:404:LEU:O	1:I:408:ARG:N	2.45	0.47
5:J:363:CYS:HA	5:J:383:PHE:CE1	2.49	0.47
5:J:346:LYS:CE	5:J:380:GLN:HE22	2.27	0.47
6:K:85:ILE:H	6:K:86:PRO:CD	2.28	0.47
4:M:416:THR:O	4:M:420:TYR:CD2	2.67	0.47
7:N:337:LEU:HA	7:N:340:GLN:HB3	1.95	0.47
7:N:808:PRO:HB3	7:N:811:PHE:HD1	1.80	0.47
8:O:341:LEU:HA	8:O:345:GLN:OE1	2.13	0.47
10:Q:114:ILE:HG13	10:Q:129:LEU:HD22	1.93	0.47
10:Q:234:GLU:HA	10:Q:237:GLU:OE2	2.15	0.47
11:R:33:GLY:N	11:R:34:ASP:CB	2.76	0.47
13:T:96:GLU:O	13:T:99:LYS:HB3	2.15	0.47
15:V:122:LEU:HG	15:V:160:PHE:CE2	2.50	0.47
15:V:49:VAL:HA	15:V:50:PRO:HA	1.60	0.47
16:W:2:VAL:O	16:W:44:ASN:ND2	2.35	0.47
25:X:205:LYS:O	4:0:358:ASN:ND2	2.47	0.47
4:0:310:MET:HE3	4:0:339:ASP:CB	2.45	0.47
7:1:544:ILE:O	7:1:548:LEU:HG	2.15	0.47
7:1:573:ASP:CG	7:1:575:ASP:H	2.18	0.47
7:1:63:VAL:O	7:1:67:VAL:HG23	2.15	0.47
8:2:225:LEU:CG	8:2:230:ARG:CB	2.93	0.47
10:4:147:LEU:HD11	10:4:177:TYR:OH	2.15	0.47
11:5:192:ARG:HH12	11:5:294:TYR:HB2	1.79	0.47
11:5:286:TRP:NE1	11:5:287:LEU:HD22	2.29	0.47
11:5:286:TRP:NE1	11:5:287:LEU:CD1	2.78	0.47
11:5:53:TYR:O	11:5:55:GLU:N	2.48	0.47
12:6:431:PRO:O	12:6:434:ALA:N	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:8:30:GLY:HA3	14:8:127:LYS:HZ1	1.80	0.47
14:8:43:TRP:CB	14:8:48:LEU:HD21	2.45	0.47
21:D:171:ALA:HB2	21:D:200:THR:HG21	1.96	0.47
21:D:66:TYR:CG	21:D:87:THR:HG21	2.50	0.47
22:E:57:ARG:NH2	23:F:104:ASN:OD1	56.65	0.47
2:H:213:LEU:CD2	2:H:214:LEU:N	2.78	0.47
2:H:299:MET:CE	2:H:328:ASP:HB2	2.33	0.47
1:I:256:ILE:HD11	1:I:290:ILE:HA	1.96	0.47
1:I:232:LYS:N	1:I:353:PHE:CD2	2.83	0.47
6:K:173:GLN:O	6:K:176:GLU:HB3	2.14	0.47
3:L:196:LEU:HD12	3:L:230:ILE:HD11	1.94	0.47
4:M:288:LEU:H	4:M:332:THR:CG2	2.22	0.47
4:M:304:ARG:CG	4:M:308:ARG:HH21	2.27	0.47
4:M:435:LEU:CD2	4:M:438:TYR:CD1	2.95	0.47
7:N:360:VAL:CG2	7:N:361:ARG:N	2.77	0.47
9:P:382:LEU:O	9:P:384:LEU:N	2.41	0.47
11:R:350:VAL:HG23	12:S:416:ARG:O	2.15	0.47
12:S:352:SER:HB3	17:Y:23:PRO:O	2.14	0.47
12:S:431:PRO:O	12:S:434:ALA:N	2.48	0.47
15:V:114:SER:HA	15:V:145:VAL:O	2.14	0.47
16:W:48:ASN:HB3	16:W:64:LEU:O	2.15	0.47
18:Z:281:ILE:O	18:Z:285:CYS:N	2.40	0.47
4:O:96:LEU:CD1	4:O:145:LEU:CB	2.82	0.47
4:O:169:ASP:OD2	4:O:267:LEU:HD12	2.15	0.47
4:O:299:GLU:O	4:O:300:LYS:HG3	2.15	0.47
4:O:91:SER:O	4:O:151:VAL:CG2	2.58	0.47
7:1:612:ASP:HB3	7:1:647:HIS:CG	2.49	0.47
8:2:43:ASP:O	8:2:46:GLN:HB2	2.14	0.47
9:3:404:ALA:HB2	9:3:415:PHE:HD1	1.80	0.47
9:3:438:LEU:O	9:3:442:THR:CB	2.62	0.47
10:4:158:LYS:N	10:4:166:LEU:HD11	2.30	0.47
11:5:250:LEU:HD21	11:5:257:ARG:HB3	1.83	0.47
12:6:235:LEU:CA	12:6:250:LEU:HD23	2.44	0.47
13:7:346:LEU:HA	13:7:349:ILE:CD1	2.44	0.47
13:7:89:GLN:HB3	13:7:115:GLU:OE1	2.14	0.47
14:8:7:GLN:O	14:8:158:VAL:HG13	2.15	0.47
2:H:201:PHE:CD1	2:H:201:PHE:N	2.82	0.47
1:I:402:ALA:O	1:I:406:ALA:N	2.28	0.47
5:J:154:LEU:HD21	5:J:317:PHE:HD2	1.77	0.47
6:K:119:ILE:N	6:K:119:ILE:CD1	2.78	0.47
6:K:149:SER:N	6:K:150:SER:CA	2.31	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:K:258:ALA:CB	6:K:259:PRO:CD	2.88	0.47
3:L:18:GLU:O	3:L:22:ILE:N	2.39	0.47
3:L:313:LEU:HD23	3:L:332:VAL:HG23	1.95	0.47
4:M:96:LEU:CD1	4:M:145:LEU:HB3	2.42	0.47
4:M:94:ILE:O	4:M:147:PRO:HG3	2.14	0.47
7:N:68:PHE:HA	7:N:71:LEU:HB2	1.97	0.47
10:Q:125:LEU:O	10:Q:125:LEU:HD13	2.15	0.47
11:R:108:ALA:HB2	11:R:123:ALA:HB1	1.93	0.47
11:R:228:MET:HE2	11:R:271:PHE:CE2	2.47	0.47
12:S:195:ILE:O	12:S:198:GLN:CB	2.63	0.47
13:T:346:LEU:HA	13:T:349:ILE:CD1	2.44	0.47
14:U:7:GLN:O	14:U:158:VAL:HG13	2.15	0.47
15:V:309:PHE:CZ	4:O:248:PHE:CE2	267.63	0.47
15:V:54:MET:SD	15:V:82:VAL:HG23	2.55	0.47
19:B:89:SER:HA	25:X:117:MET:HE2	1.97	0.47
4:O:91:SER:OG	4:O:151:VAL:HG23	2.14	0.47
4:O:183:GLU:O	4:O:187:ASP:HB2	2.14	0.47
4:O:348:LEU:N	4:O:348:LEU:HD12	2.30	0.47
4:O:436:GLN:HG2	4:O:436:GLN:O	2.15	0.47
7:1:475:HIS:O	7:1:479:LEU:HG	2.15	0.47
7:1:616:ARG:CD	7:1:650:TYR:CE2	2.97	0.47
9:3:317:TRP:CZ3	9:3:320:LEU:HB3	2.50	0.47
12:6:487:HIS:HD1	12:6:487:HIS:C	2.16	0.47
14:8:142:GLU:HA	14:8:153:LYS:H	1.79	0.47
14:8:106:ILE:HG12	14:8:155:PHE:CE1	2.50	0.47
20:C:225:VAL:HG12	20:C:229:LEU:CD1	2.45	0.47
2:H:102:ILE:CD1	2:H:120:LYS:HG2	2.45	0.47
2:H:80:LEU:O	2:H:84:LYS:N	2.45	0.47
2:H:99:THR:CG2	2:H:142:VAL:CB	2.91	0.47
1:I:373:THR:CG2	1:I:413:LYS:HG2	2.45	0.47
6:K:66:LYS:HE2	6:K:70:LYS:HE3	1.97	0.47
4:M:137:ILE:HD13	4:M:145:LEU:HD11	1.92	0.47
4:M:432:LYS:O	4:M:433:ALA:HB2	2.14	0.47
7:N:119:PRO:CG	7:N:120:GLU:N	2.76	0.47
7:N:26:LYS:O	7:N:30:VAL:HG22	2.14	0.47
7:N:545:LEU:HA	7:N:548:LEU:HD12	1.97	0.47
7:N:660:CYS:C	7:N:694:ILE:HG12	2.35	0.47
8:O:248:PHE:O	8:O:251:LEU:N	2.47	0.47
9:P:240:TYR:O	9:P:243:ILE:N	2.48	0.47
10:Q:147:LEU:HD11	10:Q:177:TYR:OH	2.15	0.47
10:Q:312:GLU:O	10:Q:315:ASP:N	2.43	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:R:268:TYR:CD2	11:R:323:PHE:CE1	3.03	0.47
12:S:507:SER:O	12:S:508:ALA:HB2	2.15	0.47
13:T:218:LYS:O	13:T:220:ILE:N	2.45	0.47
15:V:101:GLN:HE21	16:W:101:GLN:NE2	2.13	0.47
15:V:105:PRO:O	15:V:106:GLU:HG3	2.15	0.47
16:W:21:PHE:CZ	16:W:179:LEU:HB2	2.50	0.47
7:1:128:GLN:HA	7:1:131:GLU:HB3	1.98	0.46
7:1:32:ASN:O	7:1:35:TRP:CD1	2.68	0.46
9:3:365:ILE:O	9:3:368:LYS:N	2.42	0.46
10:4:32:LYS:CB	10:4:33:ARG:HA	2.45	0.46
11:5:33:GLY:N	11:5:34:ASP:HB3	2.26	0.46
12:6:507:SER:O	12:6:508:ALA:HB2	2.15	0.46
15:9:214:GLN:CG	15:9:215:LYS:N	2.77	0.46
12:6:324:PHE:HB2	17:AB:11:GLY:HA2	1.97	0.46
2:H:236:CYS:O	2:H:271:LEU:N	2.44	0.46
2:H:91:GLN:C	2:H:93:LEU:H	2.18	0.46
2:H:95:VAL:CG1	2:H:96:ALA:H	2.19	0.46
5:J:69:GLN:HE21	5:J:69:GLN:HA	1.79	0.46
6:K:99:ASN:O	6:K:100:THR:OG1	2.24	0.46
3:L:265:ASP:O	3:L:266:GLY:C	2.53	0.46
4:M:237:ALA:HB1	4:M:284:PHE:HD2	1.75	0.46
4:M:343:LEU:O	4:M:345:SER:N	2.48	0.46
4:M:375:VAL:C	4:M:414:GLU:HG2	2.35	0.46
6:K:41:TYR:CD1	7:N:183:LEU:CD2	2.98	0.46
7:N:540:GLN:O	7:N:541:HIS:CG	2.68	0.46
7:N:544:ILE:O	7:N:548:LEU:HG	2.15	0.46
7:N:577:ILE:O	7:N:580:ARG:HB3	2.15	0.46
9:P:373:ILE:HG13	9:P:374:THR:N	2.30	0.46
10:Q:183:LEU:O	10:Q:187:ARG:HB2	2.13	0.46
10:Q:239:TYR:HA	10:Q:242:ILE:HG21	1.90	0.46
10:Q:32:LYS:CB	10:Q:33:ARG:HA	2.45	0.46
10:Q:337:ARG:HA	10:Q:340:GLU:OE2	2.14	0.46
10:Q:92:LEU:HD13	10:Q:92:LEU:C	2.36	0.46
14:U:101:LEU:O	14:U:102:HIS:CE1	2.63	0.46
14:U:54:PHE:CD2	14:U:82:PHE:CE2	3.04	0.46
15:V:96:LEU:HD23	15:V:96:LEU:HA	1.82	0.46
16:W:177:PRO:O	16:W:178:SER:HB2	2.15	0.46
12:S:324:PHE:HB2	17:Y:11:GLY:HA2	1.97	0.46
18:Z:412:ALA:CA	18:Z:447:ALA:HB2	2.32	0.46
4:0:143:GLU:C	4:0:145:LEU:N	2.65	0.46
4:0:212:PHE:O	4:0:217:ILE:HG12	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:1:528:ALA:O	7:1:532:MET:N	2.31	0.46
9:3:168:GLU:O	9:3:169:LEU:C	2.44	0.46
10:4:42:ALA:O	10:4:46:LYS:N	2.34	0.46
11:5:219:PHE:CE1	11:5:223:THR:HG23	2.48	0.46
12:6:490:SER:O	12:6:494:MET:CB	2.64	0.46
13:7:269:ASP:OD1	13:7:270:GLU:N	2.44	0.46
13:7:96:GLU:O	13:7:99:LYS:HB3	2.15	0.46
15:9:105:PRO:O	15:9:106:GLU:HG3	2.15	0.46
15:9:54:MET:SD	15:9:82:VAL:HG23	2.55	0.46
1:I:394:ASP:OD1	5:J:308:PRO:HG2	2.15	0.46
5:J:158:ILE:HG22	5:J:162:LYS:HD2	1.96	0.46
5:J:189:TYR:HB2	5:J:298:ILE:HG13	1.96	0.46
5:J:77:VAL:CB	5:J:86:LEU:CD1	2.79	0.46
6:K:205:TYR:CD1	6:K:205:TYR:C	2.88	0.46
6:K:70:LYS:C	6:K:73:LEU:HD12	2.34	0.46
3:L:119:VAL:HG11	3:L:221:TYR:CD2	2.49	0.46
3:L:235:ILE:HD13	3:L:277:MET:SD	2.55	0.46
3:L:71:VAL:O	3:L:71:VAL:HG22	2.14	0.46
4:M:137:ILE:CD1	4:M:145:LEU:CD1	2.83	0.46
3:L:356:ARG:NH1	4:M:200:GLU:OE1	2.48	0.46
4:M:299:GLU:O	4:M:300:LYS:HG3	2.15	0.46
7:N:647:HIS:O	7:N:650:TYR:HB3	2.15	0.46
7:N:813:TYR:CB	7:N:883:ARG:HE	2.28	0.46
9:P:209:ILE:HD13	9:P:226:TYR:CE1	2.49	0.46
9:P:408:ARG:HA	9:P:408:ARG:HD2	1.71	0.46
11:R:268:TYR:CD2	11:R:323:PHE:HE1	2.33	0.46
11:R:344:HIS:ND1	11:R:359:PRO:CG	2.72	0.46
14:U:142:GLU:HA	14:U:153:LYS:H	1.79	0.46
16:W:170:LEU:HA	16:W:170:LEU:HD23	4.61	0.46
4:O:80:ILE:HG21	4:O:84:LYS:HE3	1.89	0.46
7:1:788:VAL:N	7:1:881:PRO:HA	2.22	0.46
10:4:200:ILE:CD1	10:4:201:TYR:N	2.78	0.46
11:5:268:TYR:CD2	11:5:323:PHE:HE1	2.33	0.46
15:9:234:TYR:O	15:9:235:SER:C	2.54	0.46
20:C:73:LEU:HA	20:C:73:LEU:HD23	1.96	0.46
22:E:31:THR:OG1	22:E:163:ARG:O	2.29	0.46
2:H:153:LEU:HB3	2:H:154:PRO:CD	2.44	0.46
2:H:207:GLU:HB3	2:H:210:LYS:HE3	1.97	0.46
2:H:258:ARG:O	2:H:262:GLU:HG2	2.16	0.46
2:H:309:PHE:HD1	2:H:310:ASP:N	2.13	0.46
2:H:307:ASP:CB	2:H:336:ARG:HG3	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:J:85:VAL:HG21	5:J:123:LEU:CD1	2.45	0.46
1:I:173:VAL:HG13	5:J:232:ARG:HB3	1.98	0.46
5:J:273:MET:HE2	5:J:273:MET:HB3	1.74	0.46
5:J:67:GLN:O	5:J:68:GLU:C	2.53	0.46
6:K:299:PHE:CD1	6:K:303:VAL:HG21	2.50	0.46
3:L:151:LEU:C	3:L:153:LEU:N	2.67	0.46
4:M:212:PHE:O	4:M:217:ILE:HG12	2.15	0.46
4:M:288:LEU:HB3	4:M:332:THR:HG21	1.98	0.46
7:N:10:SER:CB	13:T:170:GLN:CG	2.93	0.46
7:N:437:TYR:O	7:N:440:GLY:N	2.48	0.46
7:N:634:PRO:O	7:N:638:SER:N	2.46	0.46
7:N:757:MET:O	7:N:761:VAL:HG23	2.16	0.46
8:O:172:TYR:C	8:O:172:TYR:CD1	2.88	0.46
11:R:217:LYS:O	11:R:221:THR:HG23	2.16	0.46
11:R:33:GLY:N	11:R:34:ASP:HB3	2.26	0.46
14:U:141:VAL:HG12	14:U:142:GLU:N	2.31	0.46
9:P:428:TRP:CH2	15:V:305:ASP:HB2	2.50	0.46
15:V:31:VAL:HA	15:V:67:VAL:O	2.15	0.46
15:V:59:GLY:HA3	15:V:68:ARG:O	2.15	0.46
4:O:221:LYS:O	4:O:222:GLY:O	2.34	0.46
7:1:178:ALA:O	7:1:182:LYS:N	2.39	0.46
7:1:415:HIS:O	7:1:449:ILE:HG21	2.15	0.46
8:2:297:ALA:O	8:2:301:LYS:N	2.48	0.46
9:3:448:LYS:CE	14:8:154:THR:HG1	2.24	0.46
10:4:233:TYR:CD1	10:4:233:TYR:C	2.89	0.46
11:5:237:ARG:HG3	11:5:238:GLU:N	2.31	0.46
14:8:23:PHE:HD2	14:8:126:VAL:HB	1.74	0.46
12:6:469:THR:HG22	14:8:250:TYR:CD2	2.48	0.46
15:9:101:GLN:HE21	16:AA:101:GLN:NE2	2.13	0.46
15:9:162:LEU:HA	15:9:200:TYR:CB	2.45	0.46
18:AC:408:LEU:HA	18:AC:443:GLY:CA	2.45	0.46
2:H:102:ILE:HD13	2:H:120:LYS:HD3	1.92	0.46
2:H:126:SER:HB3	2:H:149:ILE:O	2.14	0.46
1:I:303:ARG:O	1:I:307:ARG:CD	2.64	0.46
5:J:104:ASP:HB3	5:J:106:ASN:H	1.79	0.46
5:J:175:PHE:HB3	5:J:180:ILE:CD1	2.45	0.46
1:I:228:PRO:O	5:J:307:ARG:HD3	2.15	0.46
5:J:90:HIS:CB	5:J:91:PRO:CD	2.67	0.46
6:K:193:GLN:C	6:K:195:GLY:H	2.19	0.46
3:L:122:MET:HE3	3:L:218:MET:SD	2.55	0.46
3:L:194:ASN:OD1	3:L:196:LEU:HD21	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:253:ILE:O	3:L:256:THR:HB	2.15	0.46
3:L:96:THR:O	3:L:96:THR:HG22	2.14	0.46
4:M:359:GLU:O	4:M:362:ARG:CA	2.63	0.46
7:N:32:ASN:O	7:N:35:TRP:CD1	2.68	0.46
7:N:370:VAL:HG11	7:N:404:ALA:HA	1.98	0.46
6:K:60:TYR:CE1	7:N:607:VAL:HG22	2.50	0.46
8:O:4:VAL:HA	8:O:7:PHE:HB2	1.96	0.46
9:P:48:LEU:CD2	9:P:90:LEU:CG	2.93	0.46
10:Q:137:TYR:O	10:Q:142:ARG:O	2.33	0.46
10:Q:56:LEU:O	10:Q:60:THR:N	2.37	0.46
10:Q:411:VAL:HG21	11:R:376:LEU:HD11	1.96	0.46
12:S:398:LEU:O	12:S:401:ASN:N	2.49	0.46
11:R:362:LYS:HG3	12:S:467:TYR:HE2	1.80	0.46
12:S:490:SER:O	12:S:494:MET:CB	2.64	0.46
13:T:148:LEU:HB2	13:T:171:LEU:HD21	1.98	0.46
4:0:223:VAL:CG1	4:0:224:LEU:H	2.27	0.46
4:0:268:VAL:O	4:0:272:PHE:N	2.39	0.46
4:0:343:LEU:O	4:0:345:SER:N	2.48	0.46
7:1:10:SER:CB	13:7:170:GLN:CG	2.93	0.46
7:1:356:THR:O	7:1:359:ALA:HB3	2.15	0.46
7:1:360:VAL:CB	7:1:727:LYS:HZ3	2.28	0.46
7:1:413:LYS:CA	7:1:449:ILE:HG12	2.42	0.46
7:1:474:ARG:O	7:1:478:SER:N	2.45	0.46
7:1:497:LEU:HB3	7:1:512:ALA:HB1	1.98	0.46
9:3:373:ILE:HG13	9:3:374:THR:N	2.30	0.46
8:2:308:GLU:OE2	9:3:377:ARG:NH2	2.48	0.46
10:4:134:VAL:CG2	10:4:149:LEU:CD2	2.93	0.46
10:4:234:GLU:HA	10:4:237:GLU:OE2	2.15	0.46
10:4:236:PHE:CZ	10:4:240:ASP:OD2	2.66	0.46
10:4:297:ARG:CB	10:4:333:GLN:CB	2.74	0.46
11:5:366:TYR:CE1	11:5:370:ILE:CG1	2.98	0.46
13:7:148:LEU:HB2	13:7:171:LEU:HD21	1.98	0.46
13:7:336:ALA:O	13:7:340:ILE:N	2.24	0.46
14:8:94:TRP:HE1	14:8:109:ASN:HA	1.80	0.46
16:AA:177:PRO:O	16:AA:178:SER:HB2	2.15	0.46
20:C:48:GLU:HG3	20:C:198:PHE:CE2	2.51	0.46
21:D:163:CYS:SG	21:D:164:ILE:N	2.88	0.46
2:H:247:GLN:OE1	2:H:256:MET:HE2	2.16	0.46
2:H:297:ARG:O	2:H:301:GLU:N	2.33	0.46
2:H:431:THR:O	2:H:431:THR:CG2	2.64	0.46
1:I:192:ASN:O	1:I:196:GLU:HB2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:285:ASP:OD1	1:I:330:ALA:HB1	2.13	0.46
1:I:345:GLY:HA2	2:H:386:ARG:NH2	2.31	0.46
1:I:405:MET:HE1	1:I:421:LYS:HD2	1.97	0.46
5:J:113:ARG:O	5:J:114:VAL:HG13	2.15	0.46
5:J:86:LEU:HD22	5:J:96:VAL:HG23	1.82	0.46
6:K:91:GLN:OE1	6:K:127:ASN:CG	2.54	0.46
6:K:153:MET:SD	6:K:257:ASN:ND2	2.89	0.46
3:L:141:GLN:HA	3:L:144:GLU:HB3	1.96	0.46
3:L:282:PRO:CD	3:L:386:TYR:O	2.64	0.46
7:N:356:THR:O	7:N:359:ALA:HB3	2.15	0.46
7:N:482:GLY:HA3	7:N:515:ALA:CB	2.45	0.46
7:N:556:MET:HB2	7:N:585:THR:HG23	1.98	0.46
7:N:63:VAL:O	7:N:67:VAL:HG23	2.15	0.46
9:P:300:PRO:O	9:P:303:LYS:HB3	2.16	0.46
9:P:317:TRP:CZ3	9:P:320:LEU:HB3	2.50	0.46
9:P:63:THR:CB	9:P:102:ALA:CB	2.93	0.46
10:Q:200:ILE:CD1	10:Q:201:TYR:N	2.78	0.46
11:R:146:ARG:HH12	11:R:213:LEU:CD1	2.10	0.46
13:T:330:ILE:N	13:T:331:PRO:HD2	2.26	0.46
14:U:223:ASN:O	14:U:226:ILE:N	2.41	0.46
15:V:234:TYR:O	15:V:235:SER:C	2.54	0.46
16:W:22:LEU:HA	16:W:23:PRO:HA	1.63	0.46
18:Z:216:MET:O	18:Z:220:ASP:N	2.47	0.46
7:1:97:VAL:HA	7:1:100:ILE:HG12	1.96	0.46
7:1:113:VAL:O	7:1:117:ASP:N	2.48	0.46
7:1:556:MET:HB2	7:1:585:THR:HG23	1.98	0.46
11:5:210:SER:C	11:5:212:GLU:H	2.19	0.46
14:8:54:PHE:CD2	14:8:82:PHE:CE2	3.04	0.46
2:H:280:ILE:O	2:H:295:VAL:HG13	2.00	0.46
2:H:327:LEU:CB	2:H:332:MET:SD	3.03	0.46
2:H:415:LYS:O	2:H:419:SER:HB2	2.15	0.46
1:I:144:LEU:CD2	1:I:162:VAL:CG2	2.84	0.46
1:I:342:ILE:HG23	1:I:350:LYS:HE3	1.96	0.46
3:L:99:ALA:HB3	3:L:109:ARG:O	2.15	0.46
3:L:198:VAL:C	3:L:200:SER:H	2.19	0.46
3:L:350:ALA:O	3:L:354:ALA:N	2.43	0.46
4:M:348:LEU:HD12	4:M:348:LEU:N	2.30	0.46
7:N:114:GLU:O	7:N:117:ASP:HB3	2.16	0.46
7:N:339:LEU:O	7:N:343:ILE:N	2.38	0.46
7:N:612:ASP:HB3	7:N:647:HIS:CG	2.49	0.46
7:N:616:ARG:NH2	7:N:647:HIS:HA	2.27	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:N:715:LYS:O	7:N:719:ASP:N	2.44	0.46
9:P:125:ILE:O	9:P:129:ARG:CB	2.63	0.46
9:P:404:ALA:HB2	9:P:415:PHE:HD1	1.80	0.46
10:Q:242:ILE:CG1	10:Q:243:ASP:N	2.78	0.46
10:Q:410:VAL:HG22	15:V:256:ASN:CB	2.43	0.46
11:R:55:GLU:HA	11:R:58:CYS:SG	2.55	0.46
13:T:221:GLN:O	13:T:222:THR:C	2.54	0.46
13:T:255:SER:O	13:T:258:PHE:CG	2.69	0.46
14:U:215:VAL:CB	14:U:220:LEU:CB	2.92	0.46
14:U:58:PHE:C	14:U:58:PHE:CD1	2.87	0.46
15:V:162:LEU:HA	15:V:200:TYR:CB	2.45	0.46
4:0:90:VAL:CG1	4:0:164:LEU:HD11	2.44	0.46
4:0:288:LEU:HB3	4:0:332:THR:HG21	1.98	0.46
4:0:416:THR:O	4:0:420:TYR:HD2	1.98	0.46
7:1:647:HIS:O	7:1:650:TYR:HB3	2.15	0.46
9:3:428:TRP:CH2	15:9:305:ASP:HB2	2.50	0.46
10:4:174:SER:OG	10:4:189:ALA:HB3	2.15	0.46
10:4:276:ALA:O	10:4:277:LEU:C	2.48	0.46
10:4:293:ALA:HA	10:4:301:ASP:OD2	2.15	0.46
10:4:337:ARG:HA	10:4:340:GLU:OE2	2.14	0.46
10:4:92:LEU:C	10:4:92:LEU:HD13	2.36	0.46
15:9:130:GLN:OE1	15:9:142:ALA:HB2	2.16	0.46
16:AA:48:ASN:HB3	16:AA:64:LEU:O	2.15	0.46
18:AC:671:ALA:O	18:AC:675:PHE:CA	2.53	0.46
1:I:292:THR:O	1:I:292:THR:OG1	2.29	0.46
1:I:387:LYS:HA	1:I:387:LYS:HD2	1.62	0.46
6:K:83:GLN:O	6:K:84:SER:OG	2.30	0.46
3:L:356:ARG:HG3	3:L:356:ARG:HH11	1.79	0.46
3:L:49:ALA:O	3:L:52:SER:CB	2.62	0.46
4:M:243:GLN:O	4:M:245:LYS:N	2.49	0.46
7:N:250:PHE:O	7:N:254:GLU:CG	2.64	0.46
7:N:421:GLN:HA	7:N:424:ALA:HB2	1.97	0.46
7:N:474:ARG:O	7:N:478:SER:N	2.45	0.46
7:N:497:LEU:HB3	7:N:512:ALA:HB1	1.98	0.46
7:N:64:ALA:O	7:N:68:PHE:N	2.48	0.46
8:O:142:LEU:HD22	8:O:155:PHE:CD2	2.51	0.46
8:O:268:LEU:O	8:O:272:ILE:HG12	2.16	0.46
9:P:145:LEU:O	9:P:149:LEU:HB3	2.16	0.46
9:P:317:TRP:CZ3	9:P:320:LEU:CG	2.96	0.46
10:Q:159:LYS:HB3	10:Q:159:LYS:HE2	1.83	0.46
11:R:268:TYR:HD2	11:R:323:PHE:CE1	2.34	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:S:389:ASP:N	12:S:389:ASP:OD1	2.46	0.46
12:S:467:TYR:CZ	14:U:254:ASN:ND2	2.84	0.46
12:S:476:PHE:O	12:S:480:ILE:HD11	1.99	0.46
14:U:106:ILE:HG12	14:U:155:PHE:CE1	2.50	0.46
14:U:213:GLU:O	14:U:217:THR:N	2.49	0.46
15:V:226:MET:O	15:V:230:THR:HG23	2.16	0.46
4:0:426:GLU:O	4:0:428:GLN:N	2.49	0.46
4:0:437:TYR:CE1	4:0:438:TYR:CE1	3.04	0.46
4:0:88:TYR:CE1	4:0:161:LEU:HB2	2.51	0.46
7:1:370:VAL:HG11	7:1:404:ALA:HA	1.98	0.46
7:1:540:GLN:O	7:1:541:HIS:CG	2.68	0.46
7:1:729:GLY:O	7:1:733:ALA:N	2.26	0.46
8:2:268:LEU:O	8:2:272:ILE:HG12	2.16	0.46
10:4:390:GLU:O	10:4:391:PRO:CB	2.64	0.46
10:4:93:LEU:HD12	10:4:129:LEU:CD1	2.46	0.46
11:5:227:SER:HG	11:5:228:MET:H	1.64	0.46
11:5:362:LYS:HG3	12:6:467:TYR:HE2	1.80	0.46
11:5:350:VAL:HG23	12:6:416:ARG:O	2.15	0.46
13:7:326:GLU:CB	14:8:246:VAL:HG21	2.46	0.46
12:6:467:TYR:CZ	14:8:254:ASN:ND2	2.84	0.46
14:8:190:ARG:CB	15:9:297:VAL:HG11	2.46	0.46
16:AA:24:THR:O	16:AA:28:ALA:N	2.29	0.46
2:H:102:ILE:HD13	2:H:120:LYS:CD	2.38	0.46
2:H:237:PHE:HD1	2:H:271:LEU:HD12	1.80	0.46
1:I:225:TYR:HA	1:I:232:LYS:HD3	1.97	0.46
5:J:137:LEU:HB2	5:J:224:ILE:HG12	1.96	0.46
5:J:156:LYS:O	5:J:160:GLU:HG2	2.16	0.46
5:J:157:GLN:O	5:J:160:GLU:HB2	2.15	0.46
5:J:189:TYR:CG	5:J:298:ILE:CD1	2.96	0.46
5:J:219:LEU:HD23	6:K:286:GLN:CG	2.41	0.46
5:J:328:ILE:HG23	33:J:501:ADP:C2	2.51	0.46
5:J:67:GLN:CG	6:K:136:SER:OG	2.63	0.46
6:K:148:ASP:O	6:K:249:ASP:HB3	2.16	0.46
6:K:247:VAL:HG12	6:K:251:PHE:HD2	1.81	0.46
6:K:284:GLU:O	6:K:288:ILE:HG13	2.16	0.46
3:L:110:TYR:C	3:L:110:TYR:CD1	2.89	0.46
3:L:205:ASP:OD2	3:L:210:GLU:HG2	2.16	0.46
3:L:384:LEU:CD2	4:M:340:PRO:HB2	2.45	0.46
4:M:436:GLN:HG2	4:M:436:GLN:O	2.15	0.46
7:N:113:VAL:O	7:N:117:ASP:N	2.48	0.46
7:N:583:MET:O	7:N:587:ALA:N	2.40	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:O:184:ASP:C	8:O:186:LYS:H	2.19	0.46
13:T:330:ILE:HG21	13:T:334:GLU:CD	2.24	0.46
14:U:16:LEU:HB3	15:V:216:MET:SD	2.56	0.46
14:U:190:ARG:CB	15:V:297:VAL:HG11	2.46	0.46
17:Y:52:PHE:O	17:Y:56:LEU:N	2.31	0.46
18:Z:388:ASP:O	18:Z:391:LEU:N	2.49	0.46
4:O:237:ALA:HB1	4:O:284:PHE:HD2	1.75	0.46
4:O:185:TYR:HE2	4:O:243:GLN:HG2	1.81	0.46
4:O:86:LEU:HA	4:O:86:LEU:HD23	1.66	0.46
7:1:459:ASP:O	7:1:463:ASN:N	2.41	0.46
7:1:757:MET:O	7:1:761:VAL:HG23	2.16	0.46
9:3:145:LEU:O	9:3:149:LEU:HB3	2.16	0.46
9:3:153:LYS:HE3	9:3:162:ALA:CA	2.45	0.46
9:3:240:TYR:O	9:3:243:ILE:N	2.48	0.46
9:3:63:THR:CB	9:3:102:ALA:CB	2.93	0.46
10:4:146:ALA:O	10:4:147:LEU:C	2.55	0.46
10:4:239:TYR:CD2	10:4:246:LYS:CB	2.98	0.46
11:5:369:THR:CG2	11:5:370:ILE:N	2.78	0.46
18:AC:324:VAL:CB	18:AC:331:LEU:O	2.64	0.46
18:AC:397:LYS:O	18:AC:401:LYS:CB	2.64	0.46
19:B:207:SER:O	19:B:208:ILE:CD1	2.53	0.46
2:H:224:LEU:HA	2:H:227:ARG:HD3	1.97	0.46
2:H:323:ARG:NH2	2:H:433:ASN:C	2.70	0.46
1:I:144:LEU:HD11	1:I:162:VAL:CA	2.42	0.46
1:I:283:PHE:CD1	1:I:328:ILE:HB	2.43	0.46
1:I:288:ASP:CB	1:I:331:THR:CG2	2.78	0.46
1:I:399:CYS:HA	1:I:419:PHE:HE1	1.79	0.46
6:K:175:GLN:HG2	6:K:179:GLU:HG3	1.97	0.46
6:K:236:VAL:CG1	6:K:288:ILE:CD1	2.94	0.46
5:J:33:LEU:HD21	6:K:47:LEU:HB3	1.98	0.46
3:L:109:ARG:CB	3:L:109:ARG:NH1	2.79	0.46
8:O:283:THR:O	8:O:285:PRO:N	2.49	0.46
9:P:142:ARG:O	9:P:146:THR:HG23	2.16	0.46
10:Q:218:HIS:HB3	10:Q:228:ALA:HB2	1.98	0.46
10:Q:2:ALA:CB	10:Q:34:ASP:CB	2.94	0.46
11:R:229:ILE:HD11	11:R:295:TYR:CE1	2.37	0.46
11:R:53:TYR:O	11:R:55:GLU:N	2.48	0.46
13:T:250:ASN:O	13:T:253:ALA:CA	2.60	0.46
13:T:336:ALA:O	13:T:340:ILE:HG13	2.16	0.46
14:U:106:ILE:CG1	14:U:155:PHE:CZ	2.99	0.46
14:U:223:ASN:C	14:U:225:GLN:H	2.20	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:U:43:TRP:CA	14:U:48:LEU:HD21	2.42	0.46
14:U:43:TRP:CB	14:U:48:LEU:HD21	2.45	0.46
16:W:142:ASN:HD21	16:W:148:VAL:N	2.14	0.46
24:G:6:TYR:OH	25:X:8:ASP:OD2	2.25	0.46
7:1:634:PRO:O	7:1:638:SER:N	2.46	0.46
8:2:248:PHE:CD1	8:2:272:ILE:CG1	2.89	0.46
8:2:291:LEU:O	8:2:330:ARG:HA	2.16	0.46
8:2:34:TRP:H	16:AA:18:ASN:HD22	1.58	0.46
9:3:314:LEU:HD13	9:3:381:LEU:HD22	1.96	0.46
9:3:406:VAL:HG12	9:3:407:ASP:C	2.36	0.46
14:8:6:VAL:HG23	14:8:7:GLN:N	2.29	0.46
14:8:16:LEU:HB3	15:9:216:MET:SD	2.56	0.46
15:9:251:LEU:O	15:9:254:ASN:N	2.49	0.46
15:9:59:GLY:HA3	15:9:68:ARG:O	2.15	0.46
18:AC:255:VAL:O	18:AC:257:ARG:N	2.49	0.46
19:B:67:THR:HG22	19:B:69:LEU:N	2.28	0.46
2:H:135:GLU:H	2:H:135:GLU:HG3	1.57	0.46
2:H:309:PHE:CZ	4:M:248:PHE:CE2	3.03	0.46
2:H:424:SER:O	2:H:426:THR:N	2.49	0.46
1:I:271:PHE:CB	1:I:315:GLN:OE1	2.64	0.46
5:J:326:LEU:HD11	5:J:345:ARG:HG3	1.98	0.46
5:J:66:LEU:O	6:K:136:SER:HB3	2.16	0.46
6:K:95:ALA:CB	6:K:101:ALA:HB2	2.46	0.46
6:K:239:TYR:C	6:K:240:LEU:HD23	2.35	0.46
6:K:251:PHE:O	6:K:255:LYS:HG3	2.16	0.46
4:M:88:TYR:CE1	4:M:161:LEU:HB2	2.51	0.46
7:N:768:GLN:HB3	7:N:771:PHE:HB2	1.98	0.46
9:P:406:VAL:HG12	9:P:407:ASP:C	2.36	0.46
9:P:404:ALA:HB2	9:P:415:PHE:CD1	2.51	0.46
10:Q:158:LYS:N	10:Q:166:LEU:HD11	2.30	0.46
10:Q:174:SER:OG	10:Q:189:ALA:HB3	2.15	0.46
10:Q:239:TYR:CD2	10:Q:246:LYS:CB	2.98	0.46
10:Q:293:ALA:HA	10:Q:301:ASP:OD2	2.15	0.46
14:U:275:LEU:HD11	14:U:279:LYS:HD3	1.97	0.46
14:U:79:TYR:CE1	14:U:83:LYS:NZ	2.63	0.46
15:V:220:LEU:HD12	15:V:221:HIS:CD2	2.51	0.46
16:W:54:LEU:HA	16:W:58:CYS:HB3	1.98	0.46
4:0:233:LYS:HG2	4:0:354:PHE:CE2	2.51	0.45
7:1:437:TYR:O	7:1:440:GLY:N	2.48	0.45
7:1:545:LEU:HA	7:1:548:LEU:HD12	1.97	0.45
7:1:64:ALA:O	7:1:68:PHE:N	2.48	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:1:86:ASP:CG	7:1:87:LEU:H	2.13	0.45
7:1:347:ASN:ND2	7:1:883:ARG:HH12	2.14	0.45
9:3:300:PRO:O	9:3:303:LYS:HB3	2.16	0.45
10:4:294:SER:O	10:4:297:ARG:CA	2.62	0.45
9:3:397:VAL:HG11	10:4:341:PRO:HB3	1.99	0.45
10:4:2:ALA:CB	10:4:34:ASP:CB	2.94	0.45
11:5:366:TYR:HA	11:5:369:THR:HG22	1.98	0.45
13:7:255:SER:O	13:7:258:PHE:CG	2.69	0.45
13:7:330:ILE:HG21	13:7:334:GLU:CD	2.24	0.45
15:9:97:ASP:O	15:9:100:LYS:HB2	2.16	0.45
15:9:226:MET:O	15:9:230:THR:HG23	2.16	0.45
16:AA:6:THR:O	16:AA:49:VAL:HA	2.16	0.45
18:AC:227:ALA:C	18:AC:229:VAL:H	2.20	0.45
18:AC:275:MET:O	18:AC:278:VAL:N	2.44	0.45
18:AC:414:LEU:O	18:AC:418:LEU:N	2.44	0.45
2:H:111:TYR:CE2	2:H:134:ILE:HD12	2.51	0.45
2:H:209:PRO:CG	2:H:339:ARG:CG	2.83	0.45
2:H:312:ARG:NH2	2:H:317:VAL:HG21	2.31	0.45
1:I:132:TYR:CE2	2:H:153:LEU:CD2	2.90	0.45
1:I:210:TYR:CD1	1:I:210:TYR:N	2.84	0.45
5:J:189:TYR:CG	5:J:298:ILE:CG1	3.00	0.45
6:K:230:VAL:CG1	6:K:235:PHE:CZ	2.98	0.45
6:K:385:LEU:HD23	6:K:398:ASP:HA	1.98	0.45
6:K:354:LEU:CD2	6:K:399:PHE:CZ	2.96	0.45
6:K:92:PHE:CE2	6:K:124:LEU:CG	2.99	0.45
3:L:162:VAL:HG12	3:L:164:ILE:HD12	1.98	0.45
3:L:199:VAL:HG11	4:M:315:ASN:CG	2.35	0.45
3:L:264:MET:HE1	3:L:277:MET:HE2	1.97	0.45
3:L:304:PRO:HB3	3:L:308:ALA:HB1	1.98	0.45
3:L:59:GLU:HA	3:L:96:THR:O	2.16	0.45
4:M:236:LEU:HD12	4:M:354:PHE:CZ	2.51	0.45
4:M:426:GLU:O	4:M:428:GLN:N	2.49	0.45
4:M:234:THR:HB	33:M:501:ADP:O2A	2.16	0.45
7:N:342:LEU:O	7:N:346:ASN:N	2.38	0.45
7:N:347:ASN:ND2	7:N:883:ARG:HH22	2.14	0.45
10:Q:402:GLU:HG3	15:V:249:LEU:CD1	2.13	0.45
10:Q:418:ALA:CB	11:R:387:ILE:HD11	2.46	0.45
10:Q:76:PHE:HA	10:Q:80:ILE:H	1.81	0.45
13:T:346:LEU:CD1	15:V:296:ILE:CD1	2.95	0.45
14:U:211:TYR:O	14:U:214:LYS:N	2.49	0.45
14:U:234:PHE:O	14:U:237:LEU:HB2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:U:94:TRP:HE1	14:U:109:ASN:HA	1.80	0.45
17:Y:63:HIS:O	17:Y:67:MET:N	2.33	0.45
18:Z:541:THR:O	18:Z:545:LYS:N	2.49	0.45
7:1:135:ASN:HA	7:1:138:PHE:HB2	1.97	0.45
11:5:179:ARG:CB	11:5:210:SER:OG	2.59	0.45
12:6:318:GLN:O	12:6:320:THR:N	2.49	0.45
13:7:339:VAL:O	13:7:343:ALA:N	2.28	0.45
9:3:444:HIS:NE2	14:8:138:TYR:CZ	2.78	0.45
14:8:106:ILE:CG1	14:8:155:PHE:CZ	2.99	0.45
16:AA:51:LEU:O	16:AA:61:LEU:N	2.42	0.45
17:AB:51:ASP:O	17:AB:54:ASN:HB2	2.16	0.45
19:B:143:ILE:HG12	19:B:220:VAL:HG22	1.98	0.45
21:D:155:ASN:CG	22:E:77:THR:OG1	2.54	0.45
23:F:166:ASP:HB3	23:F:185:TYR:CE2	2.51	0.45
23:F:66:LYS:N	23:F:216:GLU:OE2	2.47	0.45
23:F:24:VAL:O	23:F:28:ILE:HG12	2.16	0.45
2:H:324:PRO:HD2	2:H:432:TYR:CE1	2.51	0.45
2:H:333:ARG:HD2	2:H:334:PRO:O	2.16	0.45
1:I:114:GLU:C	1:I:115:ILE:HG13	2.36	0.45
1:I:107:MET:CE	1:I:160:ILE:CD1	2.85	0.45
1:I:136:LEU:HD12	1:I:160:ILE:HG23	1.97	0.45
1:I:356:PRO:O	1:I:357:ASP:HB3	2.16	0.45
5:J:100:ASP:H	5:J:123:LEU:HB2	1.82	0.45
1:I:372:MET:HB3	5:J:179:GLY:O	2.17	0.45
6:K:153:MET:O	6:K:155:THR:N	2.46	0.45
6:K:173:GLN:HE21	6:K:333:PHE:HA	1.76	0.45
6:K:345:PHE:CZ	6:K:360:LEU:HD11	2.50	0.45
6:K:85:ILE:CG2	6:K:86:PRO:HD3	2.45	0.45
3:L:148:VAL:O	3:L:167:PRO:CG	2.63	0.45
3:L:156:PRO:O	3:L:159:PHE:HB2	2.17	0.45
3:L:270:LEU:HA	3:L:270:LEU:HD23	1.68	0.45
33:L:401:ADP:N3	33:L:401:ADP:H2'	2.30	0.45
3:L:93:LYS:HB3	3:L:94:PRO:HD2	1.98	0.45
4:M:96:LEU:CD1	4:M:145:LEU:CB	2.82	0.45
4:M:226:TYR:HB3	4:M:335:VAL:HG21	1.78	0.45
4:M:437:TYR:CE1	4:M:438:TYR:CE1	3.04	0.45
7:N:18:GLN:O	7:N:21:GLU:HB3	2.15	0.45
7:N:270:THR:C	7:N:272:GLY:H	2.20	0.45
9:P:317:TRP:CH2	9:P:351:TRP:HZ3	2.29	0.45
10:Q:163:LYS:CG	10:Q:200:ILE:HG21	2.47	0.45
11:R:369:THR:CG2	11:R:370:ILE:N	2.78	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:S:363:LEU:HA	12:S:363:LEU:HD23	1.81	0.45
12:S:446:VAL:HG12	12:S:447:ILE:HD13	1.98	0.45
14:U:255:ASP:O	14:U:259:VAL:HG23	2.16	0.45
16:W:131:LEU:HD11	16:W:156:PHE:CZ	2.51	0.45
18:Z:255:VAL:O	18:Z:257:ARG:N	2.49	0.45
18:Z:309:GLU:O	18:Z:312:GLU:N	2.50	0.45
18:Z:478:ARG:O	18:Z:482:ILE:N	2.31	0.45
4:0:375:VAL:C	4:0:414:GLU:HG2	2.35	0.45
7:1:482:GLY:HA3	7:1:515:ALA:CB	2.45	0.45
7:1:684:ARG:O	7:1:688:LEU:N	2.29	0.45
9:3:421:PRO:HD2	9:3:422:ASN:N	2.19	0.45
11:5:304:TYR:CD2	11:5:334:LEU:CD2	2.90	0.45
12:6:400:HIS:CG	12:6:401:ASN:H	2.34	0.45
16:AA:54:LEU:HA	16:AA:58:CYS:HB3	1.98	0.45
20:C:184:GLU:HG2	10:4:122:ARG:NH2	2.32	0.45
2:H:201:PHE:HD1	2:H:201:PHE:H	1.58	0.45
2:H:359:ALA:HB2	2:H:389:CYS:SG	2.56	0.45
1:I:287:ILE:HD12	1:I:288:ASP:N	2.31	0.45
1:I:359:LYS:O	1:I:362:LYS:HB2	2.16	0.45
1:I:365:PHE:CD2	1:I:395:ILE:HG23	2.52	0.45
5:J:328:ILE:HD11	33:J:501:ADP:N6	2.31	0.45
6:K:71:GLU:O	6:K:74:HIS:HB2	2.16	0.45
6:K:90:GLY:O	6:K:130:VAL:CA	2.63	0.45
4:M:172:VAL:HA	4:M:175:MET:HE3	1.98	0.45
7:N:492:ASP:HA	7:N:495:ASP:HB3	1.99	0.45
7:N:535:TYR:O	7:N:539:THR:OG1	2.15	0.45
9:P:260:SER:HA	9:P:263:TRP:NE1	2.31	0.45
9:P:374:THR:CG2	9:P:375:MET:H	2.12	0.45
12:S:188:SER:O	12:S:192:MET:CB	2.64	0.45
12:S:318:GLN:O	12:S:320:THR:N	2.49	0.45
13:T:344:ARG:HG2	13:T:348:MET:HG2	1.96	0.45
14:U:253:THR:HG23	14:U:254:ASN:N	2.31	0.45
15:V:130:GLN:OE1	15:V:142:ALA:HB2	2.16	0.45
16:W:60:VAL:HG11	16:W:63:THR:HB	1.98	0.45
18:Z:275:MET:O	18:Z:278:VAL:N	2.44	0.45
4:0:139:LEU:HD12	4:0:161:LEU:HD23	1.98	0.45
4:0:243:GLN:O	4:0:245:LYS:N	2.49	0.45
7:1:597:LYS:HA	7:1:600:ARG:HB3	1.99	0.45
7:1:660:CYS:C	7:1:694:ILE:HG12	2.35	0.45
7:1:901:GLN:O	7:1:915:LYS:HB3	2.17	0.45
8:2:184:ASP:C	8:2:186:LYS:H	2.19	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:2:192:GLU:O	8:2:195:GLU:N	2.49	0.45
8:2:308:GLU:OE2	9:3:377:ARG:NE	2.46	0.45
9:3:279:PHE:HA	9:3:283:GLN:OE1	2.17	0.45
9:3:361:HIS:O	9:3:364:ARG:HB3	2.17	0.45
12:6:476:PHE:O	12:6:480:ILE:HD11	1.99	0.45
13:7:191:LEU:O	13:7:194:LEU:HB3	2.16	0.45
14:8:120:VAL:HG12	14:8:121:LEU:N	2.32	0.45
14:8:234:PHE:O	14:8:237:LEU:HB2	2.16	0.45
16:AA:65:THR:O	16:AA:66:PRO:CB	2.65	0.45
16:AA:78:VAL:HG12	16:AA:79:GLN:N	2.32	0.45
19:B:50:ILE:HG12	19:B:141:ILE:HD13	1.98	0.45
24:G:47:VAL:HG12	24:G:195:LEU:HD22	1.98	0.45
1:I:188:GLY:O	1:I:364:ILE:CG1	2.65	0.45
1:I:225:TYR:CA	1:I:232:LYS:HD3	2.47	0.45
1:I:317:ASP:OD2	1:I:346:ARG:NH2	2.48	0.45
5:J:154:LEU:CD2	5:J:157:GLN:HG3	2.47	0.45
1:I:173:VAL:CG1	5:J:232:ARG:CB	2.95	0.45
5:J:273:MET:HE3	5:J:305:LEU:HD21	1.86	0.45
5:J:91:PRO:C	5:J:92:GLU:O	2.55	0.45
6:K:116:LEU:N	6:K:119:ILE:HD11	2.31	0.45
6:K:160:PRO:HB3	6:K:217:LYS:HA	1.98	0.45
3:L:199:VAL:HB	4:M:315:ASN:ND2	2.32	0.45
3:L:178:THR:CB	3:L:301:ILE:O	2.65	0.45
3:L:349:GLU:HB3	3:L:370:ALA:HB1	1.97	0.45
2:H:119:ALA:CB	4:M:127:SER:CB	2.86	0.45
4:M:139:LEU:HD12	4:M:161:LEU:HD23	1.98	0.45
7:N:597:LYS:HA	7:N:600:ARG:HB3	1.99	0.45
7:N:597:LYS:O	7:N:601:ARG:N	2.34	0.45
8:O:192:GLU:O	8:O:195:GLU:N	2.49	0.45
10:Q:146:ALA:O	10:Q:147:LEU:C	2.55	0.45
11:R:366:TYR:CE1	11:R:370:ILE:CG1	2.98	0.45
12:S:400:HIS:CG	12:S:401:ASN:H	2.34	0.45
12:S:494:MET:O	14:U:278:ASN:ND2	2.50	0.45
13:T:191:LEU:O	13:T:194:LEU:HB3	2.16	0.45
15:V:205:ILE:O	15:V:206:ASN:OD1	2.35	0.45
16:W:6:THR:O	16:W:49:VAL:HA	2.16	0.45
17:Y:43:TRP:HA	17:Y:44:ASP:HA	1.73	0.45
18:Z:383:ALA:O	18:Z:384:ALA:CB	2.65	0.45
7:1:138:PHE:O	7:1:141:CYS:HB2	2.17	0.45
7:1:601:ARG:CG	7:1:601:ARG:HH11	2.30	0.45
9:3:211:THR:HA	9:3:214:PHE:CD2	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:4:76:PHE:CA	10:4:80:ILE:CB	2.95	0.45
11:5:139:ASP:O	11:5:142:PHE:HB2	2.16	0.45
12:6:506:GLU:O	12:6:507:SER:C	2.55	0.45
14:8:12:HIS:O	14:8:15:VAL:HG22	2.17	0.45
15:9:299:CYS:O	15:9:303:MET:HG2	2.17	0.45
15:9:31:VAL:HA	15:9:67:VAL:O	2.15	0.45
18:AC:498:LEU:O	18:AC:501:LEU:N	2.49	0.45
20:C:75:TYR:HB3	20:C:82:TYR:CD1	2.51	0.45
2:H:190:VAL:HG13	2:H:209:PRO:O	2.16	0.45
2:H:157:ILE:HD13	2:H:263:MET:HG2	1.97	0.45
1:I:112:LEU:CB	1:I:148:CYS:H	2.24	0.45
1:I:257:GLN:NE2	1:I:266:LEU:HG	2.07	0.45
1:I:226:GLY:O	1:I:332:ASN:HA	2.17	0.45
5:J:303:SER:O	5:J:306:LEU:N	2.49	0.45
5:J:195:GLY:N	33:J:501:ADP:N7	2.64	0.45
6:K:147:ALA:HB3	6:K:249:ASP:OD1	2.16	0.45
6:K:276:ASP:N	6:K:282:ASP:OD2	2.49	0.45
4:M:185:TYR:HE2	4:M:243:GLN:HG2	1.81	0.45
4:M:416:THR:O	4:M:420:TYR:HD2	1.98	0.45
7:N:135:ASN:HA	7:N:138:PHE:HB2	1.97	0.45
8:O:321:LYS:HD2	8:O:335:TRP:HE1	1.80	0.45
11:R:151:TYR:O	11:R:152:MET:CB	2.60	0.45
11:R:227:SER:HB2	11:R:231:LEU:HD11	1.98	0.45
13:T:120:LYS:CG	13:T:124:LEU:CG	2.95	0.45
13:T:138:LYS:HA	13:T:141:LEU:HD21	1.99	0.45
15:V:251:LEU:O	15:V:254:ASN:N	2.49	0.45
16:W:61:LEU:HD12	16:W:61:LEU:HA	1.77	0.45
4:0:196:GLN:O	4:0:200:GLU:N	2.36	0.45
4:0:234:THR:HB	33:0:501:ADP:O2A	2.16	0.45
7:1:114:GLU:O	7:1:117:ASP:HB3	2.16	0.45
7:1:270:THR:C	7:1:272:GLY:H	2.20	0.45
7:1:813:TYR:CB	7:1:883:ARG:HE	2.28	0.45
8:2:142:LEU:HD22	8:2:155:PHE:CD2	2.51	0.45
8:2:11:SER:CB	8:2:22:TRP:HB3	2.39	0.45
8:2:283:THR:O	8:2:285:PRO:N	2.49	0.45
9:3:171:VAL:HG13	9:3:172:GLU:N	2.32	0.45
9:3:274:VAL:HG13	9:3:287:VAL:HG23	1.94	0.45
9:3:404:ALA:HB2	9:3:415:PHE:CD1	2.51	0.45
10:4:125:LEU:O	10:4:125:LEU:HD13	2.15	0.45
10:4:302:PHE:HB2	10:4:330:LEU:HD11	1.91	0.45
10:4:320:SER:C	10:4:322:HIS:H	2.20	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:5:104:MET:O	11:5:107:LYS:N	2.49	0.45
10:4:418:ALA:CB	11:5:387:ILE:HD11	2.46	0.45
12:6:398:LEU:O	12:6:401:ASN:N	2.49	0.45
14:8:211:TYR:O	14:8:214:LYS:N	2.49	0.45
14:8:275:LEU:CD1	14:8:279:LYS:HD3	2.47	0.45
16:AA:7:MET:HA	16:AA:50:GLY:N	2.29	0.45
19:B:67:THR:HG23	19:B:216:GLU:OE2	2.16	0.45
21:D:58:GLU:HB3	22:E:96:LEU:HD21	53.36	0.45
21:D:158:GLY:HA3	22:E:58:THR:HG21	1.98	0.45
2:H:189:GLU:HG2	2:H:339:ARG:HH21	1.81	0.45
2:H:209:PRO:HG2	2:H:339:ARG:HE	1.81	0.45
1:I:251:VAL:HG12	1:I:253:SER:H	1.82	0.45
5:J:165:ILE:O	5:J:168:PRO:HD2	2.16	0.45
5:J:194:THR:C	33:J:501:ADP:C8	2.90	0.45
5:J:77:VAL:O	5:J:78:ARG:HB3	2.16	0.45
6:K:181:VAL:O	6:K:185:LEU:N	2.37	0.45
6:K:228:ILE:HD13	6:K:250:VAL:HG13	1.98	0.45
3:L:61:LEU:HD11	3:L:78:ARG:HG3	1.93	0.45
4:M:418:GLU:O	4:M:422:GLU:HG3	2.17	0.45
7:N:128:GLN:HA	7:N:131:GLU:HB3	1.98	0.45
8:O:308:GLU:OE2	9:P:377:ARG:NH2	2.48	0.45
9:P:123:ARG:CG	9:P:124:LEU:N	2.80	0.45
10:Q:191:THR:HG22	10:Q:192:SER:N	2.32	0.45
10:Q:365:LEU:HA	10:Q:365:LEU:HD23	1.86	0.45
10:Q:412:ASP:O	10:Q:416:ASN:CG	2.50	0.45
12:S:469:THR:HG22	14:U:250:TYR:CD2	2.48	0.45
14:U:23:PHE:HE2	14:U:126:VAL:HG11	0.63	0.45
14:U:38:VAL:HA	14:U:94:TRP:HA	1.97	0.45
14:U:67:VAL:HG21	16:W:92:VAL:CG1	2.47	0.45
17:Y:51:ASP:O	17:Y:54:ASN:HB2	2.16	0.45
18:Z:397:LYS:O	18:Z:401:LYS:CB	2.64	0.45
18:Z:408:LEU:HA	18:Z:443:GLY:CA	2.45	0.45
4:O:198:LEU:HD12	4:O:240:CYS:SG	2.49	0.45
7:1:250:PHE:O	7:1:254:GLU:CG	2.64	0.45
7:1:385:PHE:HE2	7:1:392:TRP:CE3	2.35	0.45
7:1:421:GLN:HA	7:1:424:ALA:HB2	1.97	0.45
7:1:505:ASP:C	7:1:544:ILE:HD11	2.37	0.45
7:1:541:HIS:CG	7:1:544:ILE:HD12	2.51	0.45
7:1:808:PRO:HB3	7:1:811:PHE:HD1	1.80	0.45
7:1:788:VAL:HG23	7:1:884:VAL:HG21	1.99	0.45
12:6:188:SER:O	12:6:192:MET:CB	2.64	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:6:484:LEU:HD22	13:7:349:ILE:CD1	2.40	0.45
14:8:213:GLU:O	14:8:217:THR:N	2.49	0.45
15:9:220:LEU:HD12	15:9:221:HIS:CD2	2.51	0.45
19:B:109:ILE:HD11	19:B:114:LEU:HA	1.99	0.45
2:H:110:LYS:CG	4:M:86:LEU:HD22	2.47	0.45
2:H:190:VAL:HG11	2:H:212:VAL:HB	1.99	0.45
2:H:306:LEU:CD1	2:H:312:ARG:HH21	2.29	0.45
2:H:90:GLU:HA	2:H:93:LEU:HB2	1.97	0.45
1:I:106:PRO:O	1:I:154:HIS:NE2	2.49	0.45
1:I:183:THR:HA	1:I:241:ASN:ND2	2.17	0.45
1:I:200:SER:HB3	1:I:349:ARG:NH1	2.31	0.45
5:J:209:CYS:HA	5:J:243:PRO:O	2.16	0.45
6:K:183:LEU:CB	6:K:184:PRO:HD3	2.46	0.45
6:K:191:TYR:CD1	6:K:198:PRO:CB	2.95	0.45
6:K:372:GLY:HA3	33:K:501:ADP:H8	1.75	0.45
3:L:146:ARG:HG2	3:L:146:ARG:NH1	2.32	0.45
3:L:172:LEU:CD1	3:L:180:LYS:CB	2.94	0.45
3:L:338:PHE:HZ	3:L:375:ALA:N	2.14	0.45
4:M:221:LYS:O	4:M:222:GLY:O	2.34	0.45
4:M:169:ASP:OD2	4:M:267:LEU:HD12	2.15	0.45
7:N:427:LEU:HD22	7:N:428:PRO:HD3	1.99	0.45
7:N:541:HIS:CG	7:N:544:ILE:HD12	2.51	0.45
7:N:601:ARG:CG	7:N:601:ARG:HH11	2.30	0.45
7:N:347:ASN:ND2	7:N:883:ARG:HH12	2.14	0.45
7:N:788:VAL:HG23	7:N:884:VAL:HG11	1.99	0.45
10:Q:256:LEU:CD2	10:Q:319:ILE:CD1	2.90	0.45
10:Q:320:SER:C	10:Q:322:HIS:H	2.20	0.45
10:Q:390:GLU:O	10:Q:391:PRO:CB	2.64	0.45
10:Q:57:LEU:C	10:Q:59:LYS:N	2.64	0.45
11:R:139:ASP:O	11:R:142:PHE:HB2	2.16	0.45
11:R:347:ILE:HB	12:S:413:SER:O	2.16	0.45
13:T:335:LEU:O	13:T:338:GLN:HB2	2.17	0.45
9:P:422:ASN:HD21	15:V:235:SER:HA	1.82	0.45
16:W:173:VAL:CG1	25:X:232:ARG:CB	237.76	0.45
7:1:261:LEU:HD11	7:1:329:LEU:HD22	1.99	0.45
7:1:347:ASN:ND2	7:1:883:ARG:HH22	2.14	0.45
10:4:163:LYS:CG	10:4:200:ILE:HG21	2.47	0.45
13:7:120:LYS:CG	13:7:124:LEU:CG	2.95	0.45
13:7:269:ASP:OD1	13:7:269:ASP:N	2.47	0.45
14:8:141:VAL:HG12	14:8:142:GLU:N	2.31	0.45
15:9:97:ASP:HA	15:9:100:LYS:HD3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AA:142:ASN:HD21	16:AA:148:VAL:N	2.14	0.45
18:AC:541:THR:O	18:AC:545:LYS:N	2.49	0.45
18:AC:567:LEU:CB	18:AC:598:CYS:O	2.65	0.45
20:C:189:THR:O	20:C:193:THR:HG22	2.17	0.45
21:D:72:MET:SD	21:D:110:LEU:HD23	2.57	0.45
2:H:123:VAL:HB	2:H:147:TYR:O	2.16	0.45
2:H:368:ILE:HG21	2:H:406:GLU:N	2.32	0.45
1:I:108:SER:HB3	1:I:154:HIS:CE1	2.52	0.45
1:I:197:ILE:CG2	1:I:198:LYS:H	2.26	0.45
1:I:223:ILE:HG13	1:I:347:ILE:HG23	1.88	0.45
1:I:278:ALA:HB1	1:I:279:PRO:HD2	1.93	0.45
6:K:93:LEU:HD22	6:K:110:ASN:HD21	1.80	0.45
3:L:132:TYR:CD2	3:L:146:ARG:NH2	2.81	0.45
3:L:282:PRO:CG	3:L:386:TYR:O	2.64	0.45
3:L:325:GLU:OE1	3:L:364:GLN:CB	2.65	0.45
4:M:179:GLU:O	4:M:180:ARG:O	2.35	0.45
2:H:334:PRO:CB	4:M:398:ALA:HB2	2.47	0.45
7:N:191:LYS:CB	7:N:194:ARG:HH21	2.30	0.45
7:N:385:PHE:HE2	7:N:392:TRP:CE3	2.35	0.45
7:N:560:MET:CA	7:N:589:ALA:HB1	2.44	0.45
7:N:643:SER:O	7:N:649:ARG:CZ	2.65	0.45
8:O:284:ARG:HH12	8:O:291:LEU:CD2	2.25	0.45
10:Q:133:LEU:CD1	10:Q:137:TYR:CE2	2.99	0.45
5:J:381:GLU:CD	10:Q:191:THR:HG1	2.17	0.45
11:R:30:GLU:HA	11:R:31:HIS:CB	2.43	0.45
11:R:349:LYS:HB3	12:S:417:ILE:HD13	1.99	0.45
13:T:250:ASN:O	13:T:253:ALA:HB2	2.10	0.45
14:U:142:GLU:HG3	14:U:152:SER:HB2	1.98	0.45
15:V:294:SER:O	15:V:297:VAL:HG23	2.17	0.45
18:Z:117:GLU:O	18:Z:120:ARG:N	2.39	0.45
4:O:168:TYR:OH	4:O:274:LEU:HD23	2.17	0.45
7:1:418:GLU:H	7:1:418:GLU:CD	2.19	0.45
7:1:699:THR:HA	7:1:706:VAL:HG11	1.99	0.45
8:2:203:ALA:O	8:2:207:GLY:N	2.49	0.45
9:3:443:THR:HG21	14:8:204:LYS:HD3	1.97	0.45
10:4:225:TRP:HD1	10:4:257:CYS:HA	1.79	0.45
11:5:217:LYS:O	11:5:221:THR:HG23	2.16	0.45
11:5:228:MET:HE1	11:5:263:LEU:CB	2.46	0.45
13:7:164:PHE:HA	13:7:167:TYR:CD2	2.52	0.45
16:AA:25:ARG:NH2	16:AA:143:PHE:H	2.08	0.45
16:AA:60:VAL:HG11	16:AA:63:THR:HB	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:268:LYS:O	2:H:269:ALA:HB3	2.17	0.45
2:H:60:ASN:O	2:H:64:GLY:N	2.31	0.45
1:I:134:SER:O	1:I:159:VAL:HB	2.16	0.45
5:J:209:CYS:HB3	5:J:243:PRO:O	2.17	0.45
5:J:247:PHE:CZ	5:J:294:ALA:HB3	2.52	0.45
5:J:274:LEU:HG	5:J:305:LEU:HD12	1.98	0.45
5:J:334:ARG:HG2	11:R:173:ASP:OD2	2.17	0.45
5:J:373:GLU:HB3	5:J:375:ARG:CG	2.46	0.45
6:K:126:PRO:CD	6:K:127:ASN:H	2.30	0.45
6:K:287:ARG:H	6:K:287:ARG:HG3	1.57	0.45
6:K:373:ALA:HA	33:K:501:ADP:O4'	2.17	0.45
3:L:227:PRO:CG	3:L:272:ARG:HG2	2.31	0.45
3:L:344:ARG:NH2	33:L:401:ADP:O3'	2.50	0.45
3:L:185:ARG:CG	4:M:320:PHE:CZ	3.00	0.45
4:M:288:LEU:CD2	4:M:342:LEU:CD1	2.88	0.45
4:M:225:MET:HG3	4:M:354:PHE:CZ	2.52	0.45
4:M:423:GLY:O	4:M:427:VAL:CG2	2.61	0.45
7:N:141:CYS:HB3	7:N:150:ALA:HB2	1.99	0.45
7:N:535:TYR:HD1	7:N:539:THR:CG2	2.30	0.45
7:N:699:THR:HA	7:N:706:VAL:HG11	1.99	0.45
7:N:901:GLN:O	7:N:915:LYS:HB3	2.17	0.45
10:Q:61:GLY:C	10:Q:64:ALA:H	2.20	0.45
11:R:120:ALA:O	11:R:124:PHE:CG	2.68	0.45
11:R:15:PRO:HD2	11:R:146:ARG:HG2	1.99	0.45
11:R:237:ARG:HG3	11:R:238:GLU:N	2.31	0.45
11:R:280:GLN:HA	11:R:280:GLN:OE1	2.17	0.45
12:S:480:ILE:CG2	13:T:342:TYR:CE1	3.00	0.45
14:U:79:TYR:CE2	14:U:91:ILE:CB	2.97	0.45
15:V:97:ASP:O	15:V:100:LYS:HB2	2.16	0.45
16:W:169:HIS:CD2	16:W:187:PRO:HG2	2.44	0.45
16:W:78:VAL:HG12	16:W:79:GLN:N	2.32	0.45
4:0:317:LEU:HA	4:0:317:LEU:HD12	1.73	0.45
7:1:236:LEU:O	7:1:240:ASP:N	2.50	0.45
7:1:402:PHE:HZ	7:1:479:LEU:CD1	2.30	0.45
7:1:49:TYR:HA	7:1:57:ARG:HB2	1.99	0.45
7:1:735:GLY:O	7:1:739:ALA:N	2.50	0.45
10:4:414:LEU:HG	14:8:276:ILE:CD1	2.46	0.45
11:5:218:THR:OG1	11:5:219:PHE:N	2.49	0.45
11:5:268:TYR:HD2	11:5:323:PHE:CE1	2.34	0.45
13:7:336:ALA:O	13:7:340:ILE:HG13	2.16	0.45
13:7:346:LEU:CD1	15:9:296:ILE:CD1	2.95	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:8:34:ARG:NH1	14:8:104:ASN:HD21	2.15	0.45
14:8:255:ASP:O	14:8:259:VAL:HG23	2.16	0.45
16:AA:16:MET:C	16:AA:18:ASN:H	2.19	0.45
16:AA:147:GLU:OE1	16:AA:172:THR:HG22	2.17	0.45
16:AA:2:VAL:C	16:AA:44:ASN:HD22	2.17	0.45
19:B:165:ALA:HB3	20:C:55:LEU:HD22	1.99	0.45
22:E:7:ILE:HG22	22:E:18:GLN:HG3	1.98	0.45
2:H:274:PHE:HB3	2:H:277:ILE:HG23	1.99	0.45
2:H:351:ARG:NH2	2:H:377:CYS:O	2.50	0.45
1:I:266:LEU:HA	1:I:266:LEU:HD23	1.78	0.45
1:I:293:LYS:HD3	1:I:293:LYS:HA	1.60	0.45
6:K:146:GLU:CG	6:K:147:ALA:N	2.79	0.45
3:L:101:ASP:HB3	3:L:106:THR:H	1.82	0.45
4:M:124:ILE:O	4:M:131:THR:HA	2.17	0.45
4:M:391:PHE:O	4:M:392:ASN:C	2.55	0.45
7:N:138:PHE:O	7:N:141:CYS:HB2	2.17	0.45
7:N:49:TYR:HA	7:N:57:ARG:HB2	1.99	0.45
7:N:558:GLY:N	7:N:588:MET:O	2.38	0.45
7:N:735:GLY:O	7:N:739:ALA:N	2.50	0.45
8:O:189:PRO:HB2	8:O:192:GLU:HG3	1.99	0.45
8:O:291:LEU:O	8:O:330:ARG:HA	2.16	0.45
9:P:211:THR:HA	9:P:214:PHE:CD2	2.52	0.45
11:R:256:VAL:CG1	11:R:257:ARG:N	2.79	0.45
15:V:299:CYS:O	15:V:303:MET:HG2	2.17	0.45
15:V:57:MET:HE2	15:V:69:VAL:HG11	1.99	0.45
16:W:16:MET:C	16:W:18:ASN:H	2.19	0.45
25:X:77:VAL:HG11	25:X:84:ALA:HB1	1.98	0.45
18:Z:498:LEU:O	18:Z:501:LEU:N	2.49	0.45
18:Z:567:LEU:CB	18:Z:598:CYS:O	2.65	0.45
18:Z:762:VAL:O	18:Z:766:GLN:N	2.31	0.45
4:0:304:ARG:HD3	4:0:304:ARG:HA	1.60	0.44
4:0:91:SER:OG	4:0:151:VAL:CG2	2.65	0.44
7:1:420:LEU:O	7:1:424:ALA:N	2.50	0.44
7:1:492:ASP:HA	7:1:495:ASP:HB3	1.99	0.44
7:1:616:ARG:NH1	7:1:650:TYR:HE2	2.14	0.44
7:1:885:MET:O	7:1:889:LEU:N	2.43	0.44
8:2:290:GLN:HA	8:2:331:VAL:O	2.17	0.44
8:2:321:LYS:HD2	8:2:335:TRP:HE1	1.80	0.44
11:5:259:TYR:C	11:5:259:TYR:CD1	2.88	0.44
12:6:101:LEU:O	12:6:105:SER:CA	2.65	0.44
14:8:92:VAL:CA	14:8:116:CYS:SG	3.05	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:8:253:THR:HG23	14:8:254:ASN:N	2.31	0.44
14:8:266:ILE:HD11	15:9:284:LEU:CD2	2.33	0.44
10:4:417:LYS:HG3	15:9:263:ASP:OD2	2.17	0.44
16:AA:131:LEU:HD11	16:AA:156:PHE:CZ	2.51	0.44
19:B:103:TYR:CD1	19:B:103:TYR:O	2.70	0.44
1:I:216:ILE:HD13	2:H:393:GLY:HA3	1.97	0.44
1:I:393:ALA:O	1:I:394:ASP:C	2.54	0.44
5:J:133:PRO:HD2	5:J:134:LEU:H	1.81	0.44
5:J:137:LEU:CB	5:J:224:ILE:HG12	2.47	0.44
5:J:28:ILE:O	5:J:31:LEU:HB2	2.17	0.44
6:K:115:ILE:HD12	6:K:121:ARG:HH12	1.64	0.44
6:K:115:ILE:O	6:K:115:ILE:HG13	2.17	0.44
6:K:171:ASP:O	6:K:175:GLN:HB3	2.17	0.44
6:K:203:LEU:CD2	6:K:204:MET:N	2.80	0.44
6:K:289:LEU:O	6:K:293:LEU:N	2.34	0.44
6:K:372:GLY:HA3	33:K:501:ADP:N7	2.32	0.44
3:L:99:ALA:HB3	3:L:109:ARG:N	2.32	0.44
7:N:769:PHE:HA	7:N:772:TRP:O	2.17	0.44
8:O:203:ALA:O	8:O:207:GLY:N	2.49	0.44
8:O:290:GLN:HA	8:O:331:VAL:O	2.17	0.44
9:P:279:PHE:HA	9:P:283:GLN:OE1	2.17	0.44
10:Q:250:SER:HA	10:Q:253:TYR:CD2	2.49	0.44
10:Q:93:LEU:HD12	10:Q:129:LEU:CD1	2.46	0.44
11:R:366:TYR:HE1	11:R:370:ILE:CG1	2.30	0.44
13:T:326:GLU:CB	14:U:246:VAL:HG21	2.46	0.44
4:O:179:GLU:O	4:O:180:ARG:O	2.35	0.44
4:O:80:ILE:HG22	4:O:84:LYS:CG	2.38	0.44
7:1:381:THR:N	7:1:411:ILE:O	2.45	0.44
8:2:346:ILE:O	8:2:349:MET:N	2.51	0.44
9:3:78:LYS:H	9:3:79:GLU:HB3	1.75	0.44
10:4:111:LEU:HA	10:4:111:LEU:HD23	1.77	0.44
10:4:133:LEU:CD1	10:4:137:TYR:CE2	2.99	0.44
10:4:193:ALA:C	10:4:196:THR:HG22	2.38	0.44
10:4:276:ALA:O	10:4:279:TYR:N	2.50	0.44
11:5:33:GLY:N	11:5:34:ASP:CB	2.76	0.44
12:6:446:VAL:HG12	12:6:447:ILE:HD13	1.98	0.44
13:7:284:PHE:H	13:7:313:ASN:CG	2.21	0.44
14:8:37:GLY:HA2	14:8:56:VAL:CG2	2.47	0.44
14:8:70:LEU:HD11	14:8:72:HIS:NE2	2.26	0.44
15:9:150:SER:HA	15:9:156:VAL:HG12	1.99	0.44
15:9:239:LYS:O	15:9:243:SER:CB	2.66	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:89:SER:C	2:H:92:PRO:HD2	2.34	0.44
1:I:115:ILE:HD11	1:I:146:PRO:CG	2.48	0.44
1:I:120:HIS:O	1:I:120:HIS:CD2	2.70	0.44
5:J:326:LEU:CD1	5:J:345:ARG:CG	2.91	0.44
5:J:35:VAL:O	5:J:38:LYS:HG2	2.17	0.44
5:J:63:LEU:HD13	6:K:79:VAL:HG11	1.99	0.44
5:J:78:ARG:HH11	5:J:80:MET:CG	2.30	0.44
6:K:167:ILE:HA	33:K:501:ADP:C2	2.52	0.44
3:L:241:ARG:NH1	3:L:241:ARG:CG	2.80	0.44
3:L:254:GLN:HG2	3:L:254:GLN:H	1.54	0.44
3:L:313:LEU:CD2	3:L:332:VAL:HG23	2.46	0.44
4:M:233:LYS:HG2	4:M:354:PHE:CE2	2.51	0.44
7:N:236:LEU:O	7:N:240:ASP:N	2.50	0.44
7:N:261:LEU:HD11	7:N:329:LEU:HD22	1.99	0.44
7:N:402:PHE:HZ	7:N:479:LEU:CD1	2.30	0.44
7:N:613:ASP:O	7:N:617:ALA:N	2.35	0.44
7:N:616:ARG:HE	7:N:650:TYR:HB3	1.82	0.44
7:N:802:TYR:N	7:N:879:ASP:HB2	2.32	0.44
8:O:139:GLU:CA	8:O:155:PHE:CZ	3.01	0.44
9:P:187:LEU:O	9:P:190:MET:HB2	2.17	0.44
9:P:361:HIS:O	9:P:364:ARG:HB3	2.17	0.44
9:P:74:CYS:SG	9:P:75:TYR:N	2.90	0.44
5:J:377:HIS:CE1	11:R:206:SER:CB	2.98	0.44
11:R:366:TYR:HA	11:R:369:THR:HG22	1.98	0.44
12:S:469:THR:O	12:S:473:GLN:CG	2.61	0.44
14:U:92:VAL:CA	14:U:116:CYS:SG	3.05	0.44
14:U:275:LEU:CD1	14:U:279:LYS:HD3	2.47	0.44
15:V:286:GLU:O	15:V:289:ASP:HB2	2.17	0.44
7:1:267:ASN:O	7:1:271:VAL:N	2.31	0.44
7:1:643:SER:O	7:1:649:ARG:CZ	2.65	0.44
7:1:769:PHE:HA	7:1:772:TRP:O	2.17	0.44
7:1:82:LEU:HD22	7:1:129:ARG:HB2	2.00	0.44
7:1:92:ASP:O	7:1:97:VAL:HG11	2.17	0.44
9:3:212:LYS:HA	9:3:212:LYS:HD3	1.73	0.44
9:3:51:GLU:CD	9:3:66:ILE:CB	2.86	0.44
10:4:365:LEU:O	10:4:369:ILE:HG12	2.18	0.44
10:4:339:ILE:HG21	10:4:385:LEU:HD23	2.00	0.44
10:4:61:GLY:O	10:4:64:ALA:CA	2.65	0.44
11:5:227:SER:HB2	11:5:231:LEU:HD11	1.98	0.44
11:5:347:ILE:HB	12:6:413:SER:O	2.16	0.44
12:6:480:ILE:CG2	13:7:342:TYR:CE1	3.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:8:23:PHE:HE2	14:8:126:VAL:HG11	0.63	0.44
14:8:215:VAL:CB	14:8:220:LEU:CB	2.92	0.44
12:6:494:MET:O	14:8:278:ASN:ND2	2.50	0.44
15:9:294:SER:O	15:9:297:VAL:HG23	2.17	0.44
15:9:57:MET:HE2	15:9:69:VAL:HG11	1.99	0.44
2:H:139:ARG:HH12	2:H:156:LYS:HG3	1.82	0.44
2:H:166:VAL:HG22	2:H:168:GLU:O	2.18	0.44
2:H:345:LEU:CD1	2:H:430:MET:HE2	2.47	0.44
1:I:168:ASP:OD2	1:I:170:LEU:HB2	2.17	0.44
1:I:203:LEU:HD23	1:I:211:TYR:OH	2.17	0.44
5:J:218:GLU:HB2	6:K:275:PHE:HB2	1.99	0.44
5:J:232:ARG:NE	5:J:279:GLN:NE2	2.39	0.44
5:J:243:PRO:HA	5:J:288:ASN:O	2.18	0.44
5:J:338:LEU:O	11:R:207:THR:CG2	2.66	0.44
5:J:46:GLN:HG2	6:K:61:ILE:HG22	1.98	0.44
6:K:215:LEU:HA	6:K:215:LEU:HD12	1.77	0.44
6:K:312:ASN:ND2	6:K:312:ASN:N	2.64	0.44
6:K:82:ILE:HD13	6:K:82:ILE:C	2.37	0.44
3:L:56:ILE:HB	3:L:100:LEU:HB2	1.97	0.44
3:L:173:TYR:CD1	3:L:173:TYR:O	2.70	0.44
3:L:242:ARG:O	3:L:243:PHE:CG	2.70	0.44
3:L:264:MET:HE1	3:L:277:MET:CE	2.47	0.44
3:L:385:ASP:O	3:L:386:TYR:CG	2.70	0.44
4:M:121:CYS:HB3	4:M:133:PHE:HE1	1.75	0.44
4:M:91:SER:OG	4:M:151:VAL:CG2	2.65	0.44
7:N:82:LEU:HD22	7:N:129:ARG:HB2	2.00	0.44
7:N:138:PHE:O	7:N:142:LEU:N	2.41	0.44
7:N:233:LEU:CA	7:N:236:LEU:HB3	2.47	0.44
7:N:68:PHE:CB	7:N:73:ALA:HB3	2.46	0.44
9:P:171:VAL:HG13	9:P:172:GLU:N	2.32	0.44
9:P:397:VAL:HG11	10:Q:341:PRO:HB3	1.99	0.44
9:P:78:LYS:HA	9:P:79:GLU:O	2.17	0.44
10:Q:193:ALA:C	10:Q:196:THR:HG22	2.38	0.44
10:Q:76:PHE:CA	10:Q:80:ILE:CB	2.95	0.44
12:S:472:PRO:O	12:S:476:PHE:CE2	2.61	0.44
10:Q:414:LEU:HG	14:U:276:ILE:CD1	2.46	0.44
16:W:173:VAL:HG13	25:X:232:ARG:HB3	237.48	0.44
16:W:65:THR:O	16:W:66:PRO:CB	2.65	0.44
4:0:136:VAL:O	4:0:137:ILE:C	2.48	0.44
4:0:380:ASN:O	4:0:383:GLU:HB2	2.18	0.44
7:1:535:TYR:HD1	7:1:539:THR:CG2	2.30	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:1:560:MET:CA	7:1:589:ALA:HB1	2.44	0.44
8:2:189:PRO:HB2	8:2:192:GLU:HG3	1.99	0.44
8:2:248:PHE:CE2	8:2:272:ILE:CD1	2.92	0.44
9:3:260:SER:HA	9:3:263:TRP:NE1	2.31	0.44
10:4:243:ASP:C	10:4:245:PRO:HD3	2.38	0.44
11:5:130:LYS:O	11:5:132:VAL:CG2	2.66	0.44
13:7:221:GLN:O	13:7:222:THR:C	2.54	0.44
14:8:142:GLU:HG3	14:8:152:SER:HB2	1.98	0.44
14:8:173:GLU:OE2	14:8:173:GLU:HA	2.17	0.44
14:8:19:VAL:O	14:8:22:HIS:HB3	2.17	0.44
14:8:223:ASN:C	14:8:225:GLN:H	2.20	0.44
15:9:51:MET:O	15:9:53:VAL:N	2.51	0.44
20:C:194:LEU:HD23	20:C:194:LEU:HA	1.79	0.44
22:E:120:GLN:HG3	23:F:135:ARG:CZ	2.48	0.44
2:H:333:ARG:HG2	2:H:334:PRO:N	2.30	0.44
2:H:368:ILE:HD11	2:H:409:PHE:CD2	2.52	0.44
1:I:180:PRO:CB	1:I:240:ALA:HB3	2.47	0.44
1:I:193:GLN:HG3	1:I:351:ILE:CG2	2.48	0.44
1:I:271:PHE:HB3	1:I:315:GLN:OE1	2.16	0.44
1:I:189:GLY:CA	1:I:360:THR:CB	2.93	0.44
5:J:274:LEU:HA	5:J:277:LEU:HD12	1.99	0.44
1:I:249:ARG:HH21	5:J:278:ASN:CB	2.25	0.44
6:K:123:LEU:HD22	6:K:125:LYS:HZ2	1.81	0.44
6:K:203:LEU:HD22	6:K:204:MET:N	2.32	0.44
6:K:162:VAL:HG13	6:K:214:MET:CE	2.29	0.44
3:L:97:ARG:NE	3:L:112:PRO:O	2.51	0.44
3:L:213:ARG:CG	3:L:213:ARG:HH11	2.30	0.44
3:L:221:TYR:CD1	3:L:222:ALA:N	2.85	0.44
3:L:241:ARG:O	3:L:242:ARG:CB	2.65	0.44
2:H:333:ARG:NH2	33:M:501:ADP:O3A	2.50	0.44
7:N:267:ASN:O	7:N:271:VAL:N	2.31	0.44
7:N:534:GLY:O	7:N:538:GLU:N	2.29	0.44
8:O:225:LEU:CG	8:O:230:ARG:CB	2.93	0.44
9:P:51:GLU:CD	9:P:66:ILE:CB	2.86	0.44
9:P:73:MET:O	9:P:76:GLU:CG	2.66	0.44
11:R:179:ARG:CB	11:R:210:SER:OG	2.59	0.44
11:R:218:THR:OG1	11:R:219:PHE:N	2.49	0.44
11:R:28:LEU:HB3	11:R:29:PRO:HD2	1.99	0.44
14:U:79:TYR:C	14:U:79:TYR:CD1	2.91	0.44
15:V:97:ASP:HA	15:V:100:LYS:HD3	1.98	0.44
15:V:122:LEU:HD22	15:V:126:ASP:HB3	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:1:397:THR:O	7:1:400:ALA:N	2.51	0.44
7:1:696:ILE:O	7:1:698:GLN:HG3	2.18	0.44
8:2:284:ARG:HH12	8:2:291:LEU:CD2	2.25	0.44
9:3:142:ARG:O	9:3:146:THR:HG23	2.16	0.44
9:3:74:CYS:SG	9:3:75:TYR:N	2.90	0.44
10:4:191:THR:HG22	10:4:192:SER:N	2.32	0.44
10:4:2:ALA:CB	10:4:34:ASP:H	2.23	0.44
10:4:73:VAL:O	10:4:77:LEU:N	2.45	0.44
10:4:76:PHE:HA	10:4:80:ILE:H	1.81	0.44
12:6:307:ARG:HD3	12:6:307:ARG:HA	1.74	0.44
21:D:8:ARG:CZ	22:E:5:ARG:HD3	2.47	0.44
2:H:202:VAL:C	2:H:204:LEU:N	2.70	0.44
1:I:150:VAL:HG23	1:I:152:LEU:HD21	1.98	0.44
1:I:390:LEU:HD12	1:I:391:SER:O	2.17	0.44
1:I:423:LYS:HG2	1:I:428:TYR:CE2	2.52	0.44
5:J:99:VAL:HG23	5:J:100:ASP:O	2.16	0.44
5:J:114:VAL:HG12	5:J:126:ILE:CG1	2.44	0.44
5:J:141:GLU:HG3	5:J:213:ARG:HB3	1.99	0.44
5:J:77:VAL:O	5:J:78:ARG:CB	2.65	0.44
6:K:300:ASP:C	6:K:302:ASN:H	2.21	0.44
3:L:144:GLU:HA	3:L:147:GLU:OE1	2.17	0.44
3:L:198:VAL:HG12	3:L:200:SER:H	1.81	0.44
3:L:235:ILE:HD12	3:L:277:MET:SD	2.56	0.44
3:L:312:ILE:HA	3:L:315:ILE:HD12	1.99	0.44
3:L:368:MET:O	3:L:371:VAL:N	2.51	0.44
4:M:137:ILE:HG21	4:M:145:LEU:CD1	2.31	0.44
7:N:603:LEU:O	7:N:607:VAL:N	2.32	0.44
10:Q:233:TYR:CD1	10:Q:233:TYR:C	2.89	0.44
11:R:362:LYS:N	11:R:362:LYS:HE2	2.33	0.44
12:S:217:VAL:O	12:S:218:TYR:O	2.36	0.44
14:U:120:VAL:HG12	14:U:121:LEU:N	2.32	0.44
10:Q:417:LYS:HG3	15:V:263:ASP:OD2	2.17	0.44
18:Z:227:ALA:C	18:Z:229:VAL:H	2.20	0.44
4:O:124:ILE:O	4:O:131:THR:HA	2.17	0.44
4:O:137:ILE:CD1	4:O:145:LEU:CD1	2.83	0.44
4:O:207:ASN:O	4:O:208:HIS:CG	2.71	0.44
7:1:191:LYS:CB	7:1:194:ARG:HH21	2.30	0.44
7:1:656:LEU:HD11	7:1:668:ALA:HB1	2.00	0.44
9:3:187:LEU:O	9:3:190:MET:HB2	2.17	0.44
9:3:317:TRP:CZ3	9:3:320:LEU:CG	2.96	0.44
11:5:349:LYS:HB3	12:6:417:ILE:HD13	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:3:438:LEU:HD12	14:8:236:LEU:HD12	2.00	0.44
15:9:205:ILE:O	15:9:206:ASN:OD1	2.35	0.44
9:3:422:ASN:HD21	15:9:235:SER:HA	1.82	0.44
15:9:286:GLU:O	15:9:289:ASP:HB2	2.17	0.44
16:AA:25:ARG:O	16:AA:29:GLN:HG3	2.18	0.44
18:AC:598:CYS:O	18:AC:599:ALA:CB	2.66	0.44
2:H:144:ARG:O	2:H:147:TYR:CE1	2.70	0.44
2:H:150:HIS:C	2:H:151:ILE:CG1	2.86	0.44
2:H:285:PHE:O	2:H:286:ASP:HB2	2.18	0.44
1:I:118:ASP:HB2	1:I:120:HIS:CD2	2.53	0.44
1:I:160:ILE:O	1:I:160:ILE:CG2	2.66	0.44
1:I:271:PHE:CB	1:I:315:GLN:CD	2.86	0.44
5:J:104:ASP:HB2	5:J:107:ASP:OD2	2.18	0.44
5:J:151:ILE:HG13	5:J:198:LEU:CD2	2.42	0.44
6:K:100:THR:CG2	6:K:112:TYR:CD1	2.92	0.44
6:K:70:LYS:HE2	14:U:182:THR:CG2	2.48	0.44
3:L:145:LEU:CD1	3:L:299:ILE:HD13	2.40	0.44
3:L:354:ALA:HB2	3:L:362:VAL:HG22	1.98	0.44
4:M:177:VAL:CG2	4:M:248:PHE:HD2	2.08	0.44
4:M:275:ALA:HB1	4:M:281:SER:OG	2.17	0.44
7:N:420:LEU:O	7:N:424:ALA:N	2.50	0.44
7:N:497:LEU:HD13	7:N:512:ALA:HA	2.00	0.44
7:N:505:ASP:C	7:N:544:ILE:HD11	2.37	0.44
7:N:549:ALA:HB3	7:N:581:SER:CB	2.41	0.44
7:N:656:LEU:HD11	7:N:668:ALA:HB1	2.00	0.44
7:N:341:PHE:HB2	7:N:787:CYS:SG	2.58	0.44
9:P:88:MET:O	9:P:92:LYS:N	2.40	0.44
10:Q:233:TYR:O	10:Q:237:GLU:HG3	2.18	0.44
10:Q:365:LEU:O	10:Q:369:ILE:HG12	2.18	0.44
10:Q:61:GLY:O	10:Q:64:ALA:HB3	2.18	0.44
11:R:104:MET:O	11:R:107:LYS:N	2.49	0.44
11:R:210:SER:C	11:R:212:GLU:H	2.19	0.44
14:U:118:ASN:O	14:U:119:SER:OG	2.35	0.44
14:U:12:HIS:O	14:U:15:VAL:HG22	2.17	0.44
14:U:211:TYR:OH	14:U:223:ASN:ND2	2.44	0.44
14:U:19:VAL:O	14:U:22:HIS:HB3	2.17	0.44
14:U:79:TYR:C	14:U:79:TYR:HD1	2.21	0.44
15:V:306:THR:O	15:V:310:LYS:CD	2.61	0.44
16:W:147:GLU:OE1	16:W:172:THR:HG22	2.17	0.44
7:1:427:LEU:HD22	7:1:428:PRO:HD3	1.99	0.44
7:1:768:GLN:HB3	7:1:771:PHE:HB2	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:1:902:PRO:HD3	7:1:914:LEU:CD1	2.48	0.44
9:3:123:ARG:CG	9:3:124:LEU:N	2.80	0.44
9:3:417:ARG:CG	9:3:418:PRO:HD2	2.47	0.44
9:3:47:LEU:O	9:3:51:GLU:HG3	2.18	0.44
10:4:218:HIS:HB3	10:4:228:ALA:HB2	1.98	0.44
10:4:256:LEU:CD2	10:4:319:ILE:CD1	2.90	0.44
13:7:335:LEU:O	13:7:338:GLN:HB2	2.17	0.44
16:AA:138:VAL:HG11	16:AA:156:PHE:HE2	1.83	0.44
16:AA:26:LEU:O	16:AA:29:GLN:HB2	2.18	0.44
16:AA:2:VAL:O	16:AA:44:ASN:ND2	2.35	0.44
14:8:67:VAL:HG21	16:AA:92:VAL:CG1	2.47	0.44
18:AC:388:ASP:O	18:AC:391:LEU:N	2.49	0.44
2:H:99:THR:N	2:H:140:VAL:O	2.50	0.44
2:H:319:MET:SD	2:H:337:LEU:HD21	2.57	0.44
1:I:120:HIS:HB2	1:I:133:VAL:O	2.17	0.44
1:I:175:LYS:HE3	1:I:277:HIS:CG	2.53	0.44
5:J:33:LEU:O	5:J:36:ASN:HB2	2.18	0.44
6:K:244:PRO:HG3	6:K:291:GLU:HG2	1.98	0.44
6:K:244:PRO:CB	6:K:291:GLU:HG3	2.47	0.44
6:K:49:GLN:O	6:K:52:GLU:HB2	2.18	0.44
3:L:104:THR:OG1	15:V:50:PRO:HB2	2.17	0.44
3:L:357:ALA:O	3:L:358:ASP:CB	2.66	0.44
3:L:360:ASP:O	4:M:215:LEU:HD12	2.17	0.44
7:N:168:LEU:HD21	7:N:204:ILE:CB	2.48	0.44
7:N:613:ASP:HA	7:N:616:ARG:HB3	2.00	0.44
7:N:684:ARG:O	7:N:688:LEU:N	2.29	0.44
7:N:753:GLY:O	7:N:754:HIS:CG	2.71	0.44
9:P:168:GLU:C	9:P:170:GLN:N	2.66	0.44
9:P:353:ASP:O	9:P:356:ASN:N	2.51	0.44
11:R:314:LEU:C	11:R:314:LEU:HD12	2.38	0.44
13:T:164:PHE:HA	13:T:167:TYR:CD2	2.52	0.44
13:T:339:VAL:CG1	15:V:296:ILE:HG23	2.39	0.44
15:V:51:MET:O	15:V:53:VAL:N	2.51	0.44
25:X:19:ARG:NH2	25:X:24:GLU:OE1	2.51	0.44
4:0:249:LEU:CD2	4:0:283:ILE:CD1	2.87	0.44
4:0:284:PHE:CD1	4:0:284:PHE:C	2.86	0.44
4:0:225:MET:HG3	4:0:354:PHE:CZ	2.52	0.44
4:0:369:HIS:HD2	4:0:397:LYS:HG3	1.83	0.44
24:G:170:THR:HG21	4:0:380:ASN:HD22	1.82	0.44
9:3:449:GLU:OE1	14:8:211:TYR:CZ	2.71	0.44
9:3:48:LEU:CD2	9:3:90:LEU:CG	2.93	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:5:108:ALA:HB2	11:5:123:ALA:HB1	1.93	0.44
11:5:192:ARG:HG2	11:5:291:HIS:NE2	2.33	0.44
11:5:267:ARG:CG	11:5:270:VAL:HG11	2.48	0.44
11:5:28:LEU:HB3	11:5:29:PRO:HD2	1.99	0.44
11:5:51:ALA:CB	11:5:52:PRO:CD	2.91	0.44
16:AA:90:ILE:O	16:AA:94:HIS:N	2.44	0.44
18:AC:309:GLU:O	18:AC:312:GLU:N	2.50	0.44
18:AC:411:ALA:HB3	18:AC:443:GLY:HA3	2.00	0.44
23:F:85:ALA:HB2	23:F:139:VAL:HG21	2.00	0.44
2:H:261:PHE:CZ	2:H:306:LEU:CD1	2.92	0.44
2:H:291:GLY:C	2:H:293:ASN:H	2.16	0.44
2:H:87:LEU:O	2:H:91:GLN:HG2	2.17	0.44
5:J:67:GLN:HG2	6:K:136:SER:OG	2.17	0.44
6:K:204:MET:O	6:K:310:ALA:HA	2.18	0.44
6:K:273:LYS:CG	6:K:274:ARG:H	2.20	0.44
6:K:337:ASP:O	6:K:341:LYS:CE	2.65	0.44
6:K:98:GLN:OE1	6:K:99:ASN:N	2.49	0.44
3:L:60:VAL:HB	3:L:93:LYS:O	2.18	0.44
4:M:376:SER:N	4:M:414:GLU:HG2	2.33	0.44
9:P:212:LYS:HA	9:P:212:LYS:HD3	1.73	0.44
9:P:443:THR:HG21	14:U:204:LYS:HD3	1.97	0.44
9:P:47:LEU:O	9:P:51:GLU:HG3	2.18	0.44
10:Q:336:ILE:C	10:Q:340:GLU:HG3	2.33	0.44
10:Q:93:LEU:CD1	10:Q:129:LEU:CD1	2.92	0.44
12:S:101:LEU:O	12:S:105:SER:CA	2.65	0.44
12:S:326:GLN:NE2	12:S:356:SER:CB	2.71	0.44
14:U:34:ARG:NH1	14:U:104:ASN:HD21	2.15	0.44
14:U:57:PRO:HG3	15:V:102:THR:HG22	1.99	0.44
18:Z:668:ALA:CB	18:Z:701:ASN:CB	2.87	0.44
18:Z:776:LEU:HA	18:Z:827:PRO:C	2.38	0.44
4:O:188:ILE:CG2	4:O:189:GLY:N	2.71	0.44
4:O:236:LEU:HD12	4:O:354:PHE:CZ	2.51	0.44
7:1:141:CYS:HB3	7:1:150:ALA:HB2	1.99	0.44
7:1:497:LEU:HD13	7:1:512:ALA:HA	2.00	0.44
10:4:159:LYS:HB3	10:4:159:LYS:HE2	1.83	0.44
10:4:212:MET:SD	10:4:250:SER:HB2	2.57	0.44
13:7:218:LYS:O	13:7:220:ILE:N	2.45	0.44
14:8:122:VAL:HG13	14:8:136:GLU:C	2.38	0.44
15:9:122:LEU:HD22	15:9:126:ASP:HB3	2.00	0.44
16:AA:7:MET:HB3	16:AA:109:ILE:HG12	2.00	0.44
19:B:21:ARG:NH2	19:B:26:GLU:OE1	2.46	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:C:51:GLN:HG2	20:C:56:TYR:CB	2.47	0.44
2:H:110:LYS:HG2	4:M:86:LEU:HD22	1.99	0.44
1:I:218:PRO:HB2	1:I:326:LYS:NZ	2.33	0.44
1:I:424:GLU:HG2	1:I:428:TYR:CD2	2.48	0.44
6:K:151:ILE:CD1	6:K:229:ARG:NH1	2.81	0.44
6:K:205:TYR:HE1	6:K:332:GLU:HG2	1.82	0.44
3:L:143:ARG:HG2	3:L:147:GLU:CD	2.33	0.44
3:L:151:LEU:O	3:L:156:PRO:HD3	2.18	0.44
3:L:175:PRO:O	3:L:177:GLY:N	2.51	0.44
4:M:82:VAL:O	4:M:161:LEU:HD11	2.18	0.44
4:M:249:LEU:HD23	4:M:283:ILE:HD11	1.95	0.44
4:M:96:LEU:HD23	4:M:122:ALA:HB2	1.99	0.44
7:N:198:LEU:C	7:N:201:LEU:CG	2.86	0.44
7:N:536:ALA:HB1	7:N:578:LEU:HD21	2.00	0.44
7:N:61:ALA:HB1	7:N:80:TYR:HB3	2.00	0.44
7:N:92:ASP:O	7:N:97:VAL:HG11	2.17	0.44
10:Q:302:PHE:HB2	10:Q:330:LEU:HD11	1.91	0.44
11:R:192:ARG:HG2	11:R:291:HIS:NE2	2.33	0.44
8:O:371:ALA:CB	13:T:340:ILE:HG23	2.26	0.44
14:U:22:HIS:CE1	14:U:55:ALA:HB1	2.53	0.44
15:V:307:VAL:HG23	15:V:308:VAL:H	1.81	0.44
18:Z:246:SER:O	18:Z:249:LEU:N	2.44	0.44
4:0:172:VAL:CG2	4:0:267:LEU:HD12	2.48	0.43
4:0:275:ALA:HB1	4:0:281:SER:OG	2.17	0.43
4:0:358:ASN:O	4:0:362:ARG:HG3	2.17	0.43
4:0:376:SER:N	4:0:414:GLU:HG2	2.33	0.43
7:1:235:LYS:O	7:1:239:GLU:HG2	2.18	0.43
7:1:536:ALA:HB1	7:1:578:LEU:HD21	2.00	0.43
7:1:802:TYR:N	7:1:879:ASP:HB2	2.32	0.43
8:2:248:PHE:CG	8:2:272:ILE:CD1	3.01	0.43
9:3:353:ASP:O	9:3:356:ASN:N	2.51	0.43
10:4:126:ARG:O	10:4:130:GLU:HG2	2.18	0.43
10:4:299:LEU:CD1	10:4:331:LEU:HA	2.48	0.43
10:4:55:SER:HA	10:4:58:ALA:CB	2.48	0.43
11:5:256:VAL:CG1	11:5:257:ARG:N	2.79	0.43
12:6:188:SER:O	12:6:192:MET:N	2.38	0.43
12:6:169:LEU:CD1	12:6:206:VAL:CG2	2.79	0.43
13:7:318:PHE:HA	13:7:319:ALA:C	2.39	0.43
14:8:101:LEU:H	14:8:101:LEU:HG	1.52	0.43
9:3:432:LEU:CD2	15:9:309:PHE:CD2	2.92	0.43
16:AA:97:LEU:HB3	16:AA:107:MET:CG	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:D:42:GLY:HA2	21:D:145:PHE:CE1	2.52	0.43
24:G:166:GLN:NE2	4:O:383:GLU:CA	2.81	0.43
2:H:161:VAL:HG21	2:H:259:GLU:CG	2.44	0.43
2:H:332:MET:O	2:H:333:ARG:C	2.56	0.43
1:I:131:HIS:HB3	2:H:95:VAL:CG2	2.47	0.43
1:I:144:LEU:HD21	1:I:162:VAL:CG2	2.41	0.43
1:I:263:GLY:H	1:I:264:PRO:HD2	1.82	0.43
5:J:134:LEU:H	5:J:237:MET:HE1	1.79	0.43
5:J:155:ASP:HA	5:J:158:ILE:HD12	2.00	0.43
5:J:232:ARG:HH11	5:J:232:ARG:CG	2.31	0.43
6:K:368:ASP:O	6:K:369:LYS:CB	2.65	0.43
3:L:260:LEU:H	3:L:260:LEU:HG	1.61	0.43
3:L:361:PHE:CG	3:L:361:PHE:O	2.71	0.43
3:L:80:VAL:HG23	6:K:89:ILE:HG12	2.00	0.43
4:M:91:SER:HG	4:M:153:VAL:HG21	1.81	0.43
4:M:258:GLN:HB2	4:M:263:ASP:HB2	2.00	0.43
7:N:235:LYS:O	7:N:239:GLU:HG2	2.18	0.43
7:N:377:HIS:HA	7:N:380:THR:HB	2.00	0.43
7:N:443:LEU:HB3	7:N:477:GLY:HA2	2.00	0.43
7:N:634:PRO:HG3	7:N:668:ALA:HB2	2.00	0.43
9:P:449:GLU:OE1	14:U:211:TYR:CZ	2.71	0.43
10:Q:212:MET:SD	10:Q:250:SER:HB2	2.57	0.43
12:S:327:THR:HA	12:S:330:LYS:HE3	2.00	0.43
14:U:139:ILE:HG22	14:U:140:SER:H	1.79	0.43
15:V:142:ALA:O	15:V:159:ALA:HA	2.18	0.43
14:U:201:LEU:HD12	15:V:225:TRP:HH2	1.82	0.43
15:V:239:LYS:O	15:V:243:SER:CB	2.66	0.43
18:Z:411:ALA:HB3	18:Z:443:GLY:HA3	2.00	0.43
18:Z:598:CYS:O	18:Z:599:ALA:CB	2.66	0.43
4:O:418:GLU:O	4:O:422:GLU:HG3	2.17	0.43
4:O:82:VAL:O	4:O:161:LEU:HD11	2.18	0.43
7:1:233:LEU:CA	7:1:236:LEU:HB3	2.47	0.43
7:1:423:MET:HE3	7:1:445:ALA:CB	2.48	0.43
7:1:450:HIS:O	7:1:454:GLY:N	2.51	0.43
8:2:122:LYS:O	8:2:125:ILE:N	2.52	0.43
10:4:251:LEU:HD23	10:4:251:LEU:HA	1.84	0.43
11:5:183:TYR:CZ	11:5:213:LEU:CD1	2.95	0.43
11:5:292:TYR:HD1	11:5:293:ARG:N	2.16	0.43
14:8:201:LEU:HD12	15:9:225:TRP:HH2	1.82	0.43
14:8:25:ARG:NH2	15:9:70:ILE:HG21	2.30	0.43
15:9:142:ALA:O	15:9:159:ALA:HA	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:9:306:THR:O	15:9:310:LYS:CD	2.61	0.43
16:AA:121:GLU:O	16:AA:124:LEU:HB3	2.18	0.43
19:B:107:TYR:O	19:B:108:GLU:C	2.56	0.43
20:C:70:HIS:NE2	20:C:104:ILE:O	2.47	0.43
21:D:159:TRP:CZ2	22:E:54:GLN:NE2	2.87	0.43
24:G:22:ILE:O	24:G:26:MET:HG2	2.18	0.43
2:H:206:ILE:O	2:H:207:GLU:CG	2.66	0.43
2:H:337:LEU:HD23	2:H:337:LEU:HA	1.89	0.43
1:I:271:PHE:CE1	1:I:316:LEU:HD12	2.53	0.43
5:J:213:ARG:NH1	5:J:249:ASP:OD2	2.35	0.43
6:K:212:LYS:HG2	6:K:333:PHE:CE2	2.53	0.43
3:L:281:ARG:CG	3:L:281:ARG:O	2.67	0.43
3:L:59:GLU:HA	3:L:97:ARG:HA	2.01	0.43
3:L:97:ARG:NH2	3:L:114:GLU:N	2.66	0.43
4:M:207:ASN:O	4:M:208:HIS:CG	2.71	0.43
7:N:408:LEU:O	7:N:412:HIS:HD2	2.01	0.43
7:N:470:ASN:C	7:N:474:ARG:HB3	2.38	0.43
7:N:902:PRO:HA	7:N:915:LYS:CB	2.43	0.43
8:O:183:VAL:HG12	8:O:186:LYS:CG	2.48	0.43
10:Q:71:LYS:O	10:Q:75:PRO:N	2.51	0.43
11:R:53:TYR:OH	11:R:150:PHE:CZ	2.57	0.43
12:S:351:PRO:CG	12:S:353:LEU:CG	2.96	0.43
12:S:480:ILE:CD1	12:S:480:ILE:N	2.80	0.43
13:T:318:PHE:HA	13:T:319:ALA:C	2.39	0.43
13:T:336:ALA:O	13:T:339:VAL:HB	2.19	0.43
14:U:47:VAL:CG1	14:U:48:LEU:H	2.31	0.43
16:W:25:ARG:O	16:W:29:GLN:HG3	2.18	0.43
24:G:166:GLN:CD	4:0:386:ARG:NH2	2.71	0.43
4:0:398:ALA:HB3	4:0:427:VAL:CG1	2.48	0.43
7:1:423:MET:HE3	7:1:445:ALA:C	2.38	0.43
7:1:615:ARG:O	7:1:619:VAL:HG23	2.18	0.43
7:1:616:ARG:HE	7:1:650:TYR:HB3	1.82	0.43
7:1:753:GLY:O	7:1:754:HIS:CG	2.71	0.43
9:3:146:THR:HA	9:3:149:LEU:CD2	2.48	0.43
12:6:217:VAL:O	12:6:218:TYR:O	2.36	0.43
14:8:79:TYR:C	14:8:79:TYR:CD1	2.91	0.43
15:9:148:ILE:HD12	15:9:149:GLN:N	2.33	0.43
16:AA:93:ALA:O	16:AA:96:ALA:HB3	2.18	0.43
18:AC:266:LEU:HA	18:AC:269:ALA:HB3	2.00	0.43
19:B:188:ASP:O	19:B:190:THR:HG23	2.18	0.43
19:B:202:LEU:CA	19:B:205:VAL:HG12	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:C:197:SER:O	20:C:199:GLU:N	2.51	0.43
2:H:306:LEU:O	2:H:307:ASP:HB2	2.17	0.43
1:I:116:ILE:HB	1:I:118:ASP:CG	2.36	0.43
1:I:118:ASP:OD1	1:I:120:HIS:O	2.36	0.43
1:I:163:LEU:HG	1:I:164:MET:H	1.82	0.43
1:I:257:GLN:OE1	1:I:266:LEU:HD11	2.17	0.43
1:I:410:ARG:HH22	11:R:94:ASN:HB3	1.83	0.43
3:L:309:ARG:NE	3:L:335:SER:O	2.51	0.43
4:M:206:MET:SD	4:M:206:MET:C	2.97	0.43
4:M:380:ASN:O	4:M:383:GLU:HB2	2.18	0.43
4:M:398:ALA:HB3	4:M:427:VAL:HG13	2.00	0.43
7:N:763:VAL:O	7:N:767:THR:N	2.50	0.43
9:P:107:GLN:C	9:P:141:GLU:CD	2.76	0.43
9:P:301:LYS:CG	9:P:324:TYR:HD1	2.27	0.43
10:Q:243:ASP:C	10:Q:245:PRO:HD3	2.38	0.43
14:U:122:VAL:HG13	14:U:136:GLU:C	2.38	0.43
16:W:138:VAL:HG11	16:W:156:PHE:HE2	1.83	0.43
16:W:8:VAL:N	16:W:50:GLY:O	2.35	0.43
4:0:342:LEU:O	4:0:347:ARG:HB2	2.18	0.43
7:1:341:PHE:HB2	7:1:787:CYS:SG	2.58	0.43
9:3:243:ILE:O	9:3:247:TYR:HD2	2.01	0.43
11:5:362:LYS:HE2	11:5:362:LYS:N	2.33	0.43
12:6:161:PRO:HA	12:6:164:GLU:HB2	2.00	0.43
12:6:220:PHE:O	12:6:221:LEU:C	2.57	0.43
12:6:351:PRO:CG	12:6:353:LEU:CG	2.96	0.43
13:7:138:LYS:HA	13:7:141:LEU:HD21	1.99	0.43
13:7:336:ALA:O	13:7:339:VAL:HB	2.19	0.43
18:AC:333:LEU:CB	18:AC:335:ARG:H	2.31	0.43
19:B:141:ILE:HD12	19:B:220:VAL:HG12	2.00	0.43
2:H:193:THR:OG1	2:H:194:PRO:CD	2.67	0.43
2:H:328:ASP:OD1	2:H:329:PRO:HD2	2.18	0.43
1:I:200:SER:CB	1:I:219:PRO:CG	2.64	0.43
5:J:111:ASN:N	5:J:111:ASN:OD1	2.51	0.43
5:J:189:TYR:O	5:J:189:TYR:CD1	2.72	0.43
5:J:247:PHE:CD1	5:J:292:ILE:HG21	2.40	0.43
6:K:148:ASP:O	6:K:249:ASP:CB	2.66	0.43
6:K:160:PRO:HB3	6:K:217:LYS:CG	2.48	0.43
6:K:273:LYS:O	6:K:275:PHE:CD2	2.72	0.43
3:L:83:CYS:SG	3:L:89:LYS:HG2	2.59	0.43
4:M:137:ILE:O	4:M:137:ILE:HG22	2.17	0.43
4:M:360:GLU:O	4:M:364:ARG:HB2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:N:470:ASN:H	7:N:474:ARG:HB3	1.66	0.43
7:N:553:ALA:HA	7:N:585:THR:HA	2.01	0.43
8:O:346:ILE:O	8:O:349:MET:N	2.51	0.43
8:O:348:GLY:O	8:O:352:ARG:CG	2.57	0.43
9:P:448:LYS:CE	14:U:154:THR:HG1	2.26	0.43
10:Q:190:LEU:CD2	10:Q:214:SER:HA	2.45	0.43
10:Q:351:SER:O	10:Q:355:LYS:N	2.50	0.43
12:S:506:GLU:O	12:S:507:SER:C	2.55	0.43
13:T:128:PHE:CG	13:T:130:PRO:HB2	2.53	0.43
13:T:343:ALA:HA	13:T:346:LEU:HB2	2.00	0.43
14:U:67:VAL:HG21	16:W:92:VAL:HG13	2.01	0.43
15:V:150:SER:HA	15:V:156:VAL:HG12	1.99	0.43
16:W:121:GLU:O	16:W:124:LEU:HB3	2.18	0.43
16:W:4:GLU:HB2	16:W:106:LYS:C	2.39	0.43
4:O:183:GLU:OE1	4:O:235:LEU:HD22	2.19	0.43
4:O:288:LEU:CD2	4:O:342:LEU:CD1	2.88	0.43
4:O:398:ALA:HB3	4:O:427:VAL:HG13	2.00	0.43
7:1:470:ASN:C	7:1:474:ARG:HB3	2.38	0.43
7:1:443:LEU:HB3	7:1:477:GLY:HA2	2.00	0.43
7:1:701:ILE:HA	7:1:704:PRO:HG3	2.01	0.43
8:2:248:PHE:CG	8:2:272:ILE:HD12	2.54	0.43
10:4:127:GLN:O	10:4:130:GLU:HB2	2.19	0.43
10:4:250:SER:HA	10:4:253:TYR:CD2	2.49	0.43
11:5:118:GLU:O	11:5:121:LEU:HB2	2.19	0.43
12:6:469:THR:O	12:6:473:GLN:CG	2.61	0.43
14:8:57:PRO:HG3	15:9:102:THR:HG22	1.99	0.43
14:8:79:TYR:C	14:8:79:TYR:HD1	2.22	0.43
15:9:257:LYS:O	15:9:261:GLU:HB2	2.19	0.43
14:8:256:GLN:CG	15:9:295:ASN:ND2	2.80	0.43
16:AA:39:SER:HA	16:AA:42:ARG:HB2	2.01	0.43
18:AC:246:SER:O	18:AC:249:LEU:N	2.44	0.43
2:H:257:VAL:O	2:H:260:LEU:HB2	2.17	0.43
2:H:423:PHE:N	2:H:423:PHE:CD1	2.86	0.43
2:H:93:LEU:HB3	2:H:94:GLN:H	1.60	0.43
1:I:152:LEU:HD23	1:I:159:VAL:HA	2.00	0.43
1:I:191:ASP:O	1:I:192:ASN:C	2.57	0.43
1:I:251:VAL:HG12	1:I:253:SER:N	2.33	0.43
1:I:249:ARG:HH12	5:J:279:GLN:CG	2.32	0.43
5:J:286:THR:HG22	5:J:287:LYS:H	1.84	0.43
6:K:205:TYR:HD1	6:K:205:TYR:C	2.21	0.43
6:K:345:PHE:CE1	6:K:360:LEU:HD21	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:K:378:ILE:HG13	6:K:406:VAL:CG2	2.25	0.43
6:K:388:ARG:NH1	6:K:388:ARG:HG3	2.32	0.43
6:K:86:PRO:O	6:K:134:LYS:NZ	2.51	0.43
6:K:98:GLN:OE1	6:K:121:ARG:NH2	2.41	0.43
3:L:242:ARG:HA	3:L:254:GLN:HE22	1.83	0.43
4:M:286:ASP:C	4:M:287:GLU:HG2	2.38	0.43
4:M:289:ASP:HA	4:M:292:GLY:O	2.19	0.43
4:M:311:LEU:HD23	4:M:311:LEU:HA	1.85	0.43
3:L:199:VAL:CG1	4:M:315:ASN:HD21	2.12	0.43
7:N:205:TYR:O	7:N:208:LEU:N	2.50	0.43
7:N:347:ASN:HD22	7:N:743:ASN:ND2	2.11	0.43
7:N:418:GLU:CD	7:N:418:GLU:H	2.19	0.43
7:N:615:ARG:O	7:N:619:VAL:HG23	2.18	0.43
7:N:788:VAL:N	7:N:881:PRO:HA	2.22	0.43
9:P:153:LYS:HE3	9:P:162:ALA:CA	2.45	0.43
9:P:217:GLU:HA	9:P:220:GLU:OE1	2.19	0.43
9:P:343:SER:C	9:P:348:GLU:HB2	2.39	0.43
10:Q:200:ILE:C	10:Q:200:ILE:CD1	2.87	0.43
11:R:21:GLN:CG	11:R:286:TRP:HZ3	2.19	0.43
14:U:173:GLU:HA	14:U:173:GLU:OE2	2.17	0.43
15:V:148:ILE:HD12	15:V:149:GLN:N	2.33	0.43
15:V:257:LYS:O	15:V:261:GLU:HB2	2.19	0.43
16:W:157:VAL:HG11	16:W:170:LEU:CB	2.43	0.43
16:W:26:LEU:O	16:W:29:GLN:HB2	2.18	0.43
4:0:96:LEU:HD23	4:0:122:ALA:HB2	1.99	0.43
4:0:192:ASP:HA	4:0:195:ILE:HB	2.01	0.43
7:1:377:HIS:HA	7:1:380:THR:HB	2.00	0.43
7:1:792:ASN:CG	7:1:916:ASP:HB2	2.39	0.43
8:2:139:GLU:CA	8:2:155:PHE:CZ	3.01	0.43
8:2:359:ASP:O	8:2:363:MET:HB2	2.18	0.43
8:2:36:GLN:O	8:2:40:GLN:CG	2.67	0.43
9:3:247:TYR:HA	9:3:250:ILE:HG22	2.01	0.43
9:3:73:MET:O	9:3:76:GLU:CG	2.66	0.43
10:4:397:TYR:CZ	14:8:258:VAL:CG2	2.92	0.43
11:5:15:PRO:HD2	11:5:146:ARG:HG2	1.99	0.43
11:5:214:MET:HE2	11:5:219:PHE:HB2	2.01	0.43
11:5:366:TYR:HE1	11:5:370:ILE:CG1	2.30	0.43
12:6:487:HIS:ND1	12:6:487:HIS:C	2.72	0.43
13:7:335:LEU:CA	13:7:338:GLN:HB2	2.48	0.43
14:8:47:VAL:CG1	14:8:48:LEU:H	2.31	0.43
15:9:239:LYS:O	15:9:243:SER:N	2.39	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:9:96:LEU:HD22	15:9:100:LYS:HZ1	1.82	0.43
16:AA:64:LEU:CG	16:AA:101:GLN:CG	2.96	0.43
19:B:175:SER:OG	19:B:201:CYS:SG	2.71	0.43
2:H:109:PRO:O	2:H:110:LYS:O	2.37	0.43
2:H:112:ILE:HG23	2:H:122:VAL:HG22	2.01	0.43
2:H:424:SER:C	2:H:426:THR:N	2.70	0.43
1:I:246:THR:OG1	1:I:280:SER:HB2	2.13	0.43
1:I:257:GLN:H	1:I:257:GLN:HG2	1.66	0.43
1:I:259:TYR:CG	2:H:248:LYS:HE2	2.54	0.43
5:J:248:MET:CE	5:J:291:VAL:CG2	2.96	0.43
5:J:188:LEU:HD22	5:J:317:PHE:CE1	2.54	0.43
6:K:131:ALA:O	6:K:140:VAL:N	2.47	0.43
6:K:151:ILE:C	6:K:152:MET:SD	2.96	0.43
6:K:53:PHE:HD1	6:K:53:PHE:HA	1.78	0.43
3:L:182:LEU:HD12	3:L:185:ARG:HH11	1.84	0.43
3:L:297:ARG:NH1	6:K:381:GLU:OE2	2.51	0.43
3:L:80:VAL:HG23	6:K:89:ILE:CG1	2.48	0.43
4:M:172:VAL:CG2	4:M:267:LEU:HD12	2.48	0.43
4:M:369:HIS:HD2	4:M:397:LYS:HG3	1.83	0.43
7:N:397:THR:O	7:N:400:ALA:N	2.51	0.43
7:N:644:TYR:CG	7:N:645:ASN:N	2.86	0.43
7:N:696:ILE:O	7:N:698:GLN:HG3	2.18	0.43
10:Q:196:THR:HG23	10:Q:197:ALA:N	2.34	0.43
10:Q:339:ILE:HG21	10:Q:385:LEU:HD23	2.00	0.43
11:R:130:LYS:O	11:R:132:VAL:CG2	2.66	0.43
13:T:284:PHE:H	13:T:313:ASN:CG	2.21	0.43
14:U:34:ARG:HH21	14:U:102:HIS:HD2	1.64	0.43
14:U:224:HIS:HB3	14:U:228:TYR:CE1	2.53	0.43
9:P:438:LEU:HD12	14:U:236:LEU:HD12	2.00	0.43
12:S:494:MET:CA	14:U:275:LEU:CD2	2.97	0.43
16:W:157:VAL:O	16:W:161:ASN:HB2	2.19	0.43
16:W:7:MET:HB3	16:W:109:ILE:HG12	2.00	0.43
16:W:93:ALA:O	16:W:96:ALA:HB3	2.18	0.43
18:Z:333:LEU:CB	18:Z:335:ARG:H	2.31	0.43
7:1:168:LEU:HD21	7:1:204:ILE:CB	2.48	0.43
10:4:216:ILE:CG2	10:4:318:ILE:HD13	2.48	0.43
10:4:8:GLU:O	10:4:12:ALA:N	2.42	0.43
11:5:228:MET:SD	11:5:260:LEU:HD23	2.59	0.43
11:5:314:LEU:HD12	11:5:314:LEU:C	2.38	0.43
12:6:327:THR:HA	12:6:330:LYS:HE3	2.00	0.43
14:8:275:LEU:HD13	14:8:279:LYS:HD2	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AC:776:LEU:HA	18:AC:827:PRO:C	2.38	0.43
2:H:200:ARG:O	2:H:202:VAL:N	2.51	0.43
2:H:95:VAL:CG1	2:H:96:ALA:N	2.79	0.43
1:I:114:GLU:C	1:I:121:ALA:HB1	2.39	0.43
1:I:140:ASP:OD1	1:I:141:LYS:HD3	2.18	0.43
5:J:209:CYS:CB	5:J:243:PRO:O	2.66	0.43
5:J:248:MET:SD	5:J:273:MET:HB2	2.58	0.43
5:J:86:LEU:CD1	5:J:86:LEU:C	2.87	0.43
6:K:151:ILE:CG2	6:K:152:MET:H	2.14	0.43
6:K:212:LYS:CA	6:K:333:PHE:HE2	2.22	0.43
3:L:344:ARG:HH21	33:L:401:ADP:HO2'	1.66	0.43
4:M:359:GLU:O	4:M:362:ARG:CB	2.66	0.43
9:P:146:THR:HA	9:P:149:LEU:CD2	2.48	0.43
9:P:243:ILE:O	9:P:247:TYR:HD2	2.01	0.43
9:P:417:ARG:CG	9:P:418:PRO:HD2	2.47	0.43
11:R:53:TYR:O	11:R:54:TYR:C	2.57	0.43
12:S:220:PHE:O	12:S:221:LEU:C	2.57	0.43
12:S:417:ILE:HG22	12:S:418:SER:O	2.19	0.43
14:U:17:LEU:HA	14:U:17:LEU:HD23	1.81	0.43
14:U:259:VAL:CG1	15:V:291:LEU:HD22	2.48	0.43
16:W:38:HIS:O	16:W:42:ARG:N	2.42	0.43
18:Z:266:LEU:HA	18:Z:269:ALA:HB3	2.00	0.43
4:0:360:GLU:O	4:0:364:ARG:HB2	2.19	0.43
7:1:185:MET:HA	7:1:194:ARG:HD2	2.01	0.43
7:1:423:MET:C	7:1:427:LEU:HG	2.39	0.43
9:3:131:VAL:HG11	9:3:142:ARG:HB2	1.96	0.43
9:3:199:TYR:O	9:3:203:GLN:CG	2.67	0.43
9:3:344:THR:C	9:3:348:GLU:HB2	2.39	0.43
11:5:48:ASN:O	11:5:50:MET:N	2.52	0.43
12:6:480:ILE:CB	13:7:342:TYR:CE1	2.99	0.43
14:8:22:HIS:CE1	14:8:55:ALA:HB1	2.53	0.43
14:8:259:VAL:CG1	15:9:291:LEU:HD22	2.48	0.43
15:9:131:GLN:O	15:9:134:GLU:N	2.50	0.43
16:AA:157:VAL:O	16:AA:161:ASN:HB2	2.19	0.43
18:AC:696:LEU:O	18:AC:700:SER:CB	2.67	0.43
19:B:107:TYR:CD1	19:B:107:TYR:O	2.70	0.43
21:D:11:ILE:HD11	22:E:7:ILE:HD12	2.01	0.43
21:D:130:PHE:O	21:D:152:PRO:HB3	2.19	0.43
2:H:157:ILE:HG21	2:H:263:MET:HG2	1.98	0.43
2:H:183:GLN:HE21	2:H:343:PHE:HA	1.82	0.43
2:H:257:VAL:O	2:H:261:PHE:HD2	2.02	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:196:GLU:HB3	1:I:351:ILE:CD1	2.49	0.43
1:I:204:PRO:CG	1:I:211:TYR:HE2	2.30	0.43
1:I:230:THR:CG2	1:I:353:PHE:HB2	2.29	0.43
5:J:125:LYS:HG2	5:J:126:ILE:N	2.34	0.43
6:K:121:ARG:O	6:K:123:LEU:CA	2.64	0.43
6:K:267:ILE:HG12	6:K:311:THR:HG21	1.97	0.43
6:K:366:ARG:NH1	6:K:403:TYR:CE2	2.85	0.43
6:K:51:LEU:O	6:K:54:LEU:CD2	2.67	0.43
3:L:254:GLN:O	3:L:258:MET:N	2.47	0.43
4:M:192:ASP:HA	4:M:195:ILE:HB	2.01	0.43
4:M:168:TYR:OH	4:M:274:LEU:HD23	2.17	0.43
4:M:344:ARG:O	4:M:345:SER:HB3	2.19	0.43
4:M:398:ALA:HB3	4:M:427:VAL:CG1	2.48	0.43
7:N:701:ILE:HA	7:N:704:PRO:HG3	2.01	0.43
8:O:374:ILE:CG1	13:T:347:GLU:CD	2.87	0.43
9:P:153:LYS:HE2	9:P:162:ALA:HB1	2.01	0.43
11:R:24:PHE:O	11:R:27:SER:OG	2.17	0.43
11:R:288:PHE:O	11:R:290:PRO:HD2	2.19	0.43
11:R:348:ASP:HB3	11:R:353:ILE:CG2	2.44	0.43
11:R:48:ASN:O	11:R:50:MET:N	2.52	0.43
12:S:325:LYS:HA	12:S:328:VAL:HG12	2.00	0.43
13:T:114:GLU:O	13:T:117:GLY:N	2.48	0.43
14:U:178:ASP:C	14:U:179:ILE:HG13	2.39	0.43
16:W:97:LEU:HB3	16:W:107:MET:CG	2.48	0.43
16:W:49:VAL:HG12	16:W:50:GLY:O	2.19	0.43
16:W:97:LEU:HD11	16:W:108:ARG:O	2.19	0.43
18:Z:792:ALA:HB1	18:Z:824:ALA:CB	2.45	0.43
4:0:121:CYS:HB3	4:0:133:PHE:HE1	1.75	0.43
4:0:134:LEU:HG	4:0:134:LEU:H	1.57	0.43
4:0:87:PRO:HG2	4:0:155:LYS:HE2	2.01	0.43
4:0:191:LEU:HD23	4:0:191:LEU:HA	1.83	0.43
4:0:206:MET:SD	4:0:206:MET:C	2.97	0.43
4:0:264:GLY:O	4:0:268:VAL:HG23	2.19	0.43
24:G:166:GLN:NE2	4:0:386:ARG:CB	2.60	0.43
7:1:355:ASN:HA	7:1:358:ASP:CG	2.39	0.43
7:1:603:LEU:O	7:1:607:VAL:N	2.32	0.43
7:1:763:VAL:O	7:1:767:THR:N	2.50	0.43
9:3:384:LEU:HD22	9:3:388:GLU:HB3	2.00	0.43
10:4:160:MET:O	10:4:161:ASP:HB2	2.19	0.43
10:4:71:LYS:O	10:4:75:PRO:N	2.51	0.43
11:5:108:ALA:CB	11:5:124:PHE:CE1	3.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:5:14:ASN:HB3	11:5:15:PRO:HA	2.00	0.43
11:5:317:GLY:O	11:5:321:GLU:HB3	2.19	0.43
12:6:69:THR:CB	12:6:163:VAL:HG11	2.49	0.43
7:1:22:PHE:CG	13:7:121:LEU:HD21	2.51	0.43
8:2:371:ALA:CB	13:7:340:ILE:HG23	2.26	0.43
8:2:374:ILE:CG1	13:7:347:GLU:CD	2.87	0.43
18:AC:734:SER:HA	18:AC:768:LEU:O	2.19	0.43
22:E:38:ARG:CZ	22:E:38:ARG:H	2.31	0.43
2:H:139:ARG:O	2:H:153:LEU:HB2	2.19	0.43
1:I:314:ASN:HD22	2:H:241:ILE:HD13	1.84	0.43
5:J:31:LEU:N	5:J:34:ILE:CD1	2.81	0.43
6:K:244:PRO:HB3	6:K:291:GLU:CG	2.49	0.43
6:K:393:ILE:CG2	6:K:394:VAL:N	2.81	0.43
6:K:411:GLU:CG	6:K:412:GLN:N	2.68	0.43
6:K:51:LEU:HD22	6:K:51:LEU:HA	1.86	0.43
7:N:132:GLY:O	7:N:136:LYS:N	2.30	0.43
7:N:11:LEU:HA	7:N:14:GLU:OE1	2.19	0.43
7:N:185:MET:HA	7:N:194:ARG:HD2	2.01	0.43
7:N:733:ALA:O	7:N:736:ILE:HB	2.19	0.43
8:O:122:LYS:O	8:O:125:ILE:N	2.52	0.43
9:P:146:THR:HA	9:P:149:LEU:HG	2.01	0.43
9:P:436:MET:O	9:P:440:ASN:N	2.48	0.43
10:Q:216:ILE:CG2	10:Q:318:ILE:HD13	2.48	0.43
11:R:14:ASN:N	11:R:15:PRO:CA	2.81	0.43
11:R:366:TYR:HD1	11:R:366:TYR:O	2.02	0.43
12:S:161:PRO:HA	12:S:164:GLU:HB2	2.00	0.43
12:S:69:THR:CB	12:S:163:VAL:HG11	2.49	0.43
7:N:10:SER:CB	13:T:170:GLN:CD	2.87	0.43
14:U:237:LEU:HA	14:U:237:LEU:HD23	1.85	0.43
14:U:256:GLN:CG	15:V:295:ASN:ND2	2.80	0.43
15:V:96:LEU:HD22	15:V:100:LYS:HZ2	1.82	0.43
18:Z:192:VAL:HA	18:Z:204:ALA:HB3	2.01	0.43
18:Z:696:LEU:O	18:Z:700:SER:CB	2.67	0.43
18:Z:776:LEU:HA	18:Z:827:PRO:CA	2.49	0.43
4:0:123:VAL:HG12	4:0:124:ILE:N	2.34	0.43
4:0:137:ILE:O	4:0:137:ILE:HG22	2.17	0.43
4:0:391:PHE:O	4:0:392:ASN:C	2.55	0.43
7:1:390:LEU:HD23	7:1:390:LEU:HA	1.82	0.43
7:1:644:TYR:CG	7:1:645:ASN:N	2.86	0.43
7:1:733:ALA:O	7:1:736:ILE:HB	2.19	0.43
13:7:256:TYR:O	13:7:259:PHE:HB2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:8:263:ALA:CB	15:9:292:MET:SD	3.07	0.43
2:H:238:ILE:HG22	2:H:240:VAL:HG23	2.00	0.43
1:I:115:ILE:C	1:I:116:ILE:HG12	2.38	0.43
5:J:118:ASN:ND2	5:J:119:ASP:N	2.15	0.43
5:J:154:LEU:HD22	5:J:157:GLN:HG3	2.00	0.43
5:J:339:THR:HG22	5:J:340:ARG:N	2.27	0.43
6:K:170:MET:HB3	6:K:174:LYS:CD	2.48	0.43
6:K:170:MET:HB3	6:K:174:LYS:HG3	2.00	0.43
3:L:252:GLU:OE1	4:M:261:ILE:HG21	2.18	0.43
3:L:141:GLN:NE2	3:L:301:ILE:HA	2.34	0.43
3:L:345:ASN:O	3:L:349:GLU:N	2.33	0.43
4:M:123:VAL:HG12	4:M:124:ILE:N	2.34	0.43
4:M:264:GLY:O	4:M:268:VAL:HG23	2.19	0.43
7:N:450:HIS:O	7:N:454:GLY:N	2.51	0.43
7:N:900:TYR:HB3	7:N:915:LYS:O	2.19	0.43
8:O:359:ASP:O	8:O:363:MET:HB2	2.18	0.43
9:P:344:THR:C	9:P:348:GLU:HB2	2.39	0.43
10:Q:126:ARG:O	10:Q:130:GLU:HG2	2.18	0.43
10:Q:229:TYR:CZ	10:Q:258:LYS:NZ	2.87	0.43
10:Q:298:SER:OG	10:Q:301:ASP:HB3	2.18	0.43
12:S:188:SER:O	12:S:192:MET:N	2.38	0.43
13:T:145:ARG:O	13:T:149:GLU:HG3	2.18	0.43
14:U:263:ALA:CB	15:V:292:MET:SD	3.07	0.43
18:Z:381:VAL:HA	18:Z:771:LEU:HA	2.01	0.43
18:Z:664:GLU:O	18:Z:666:ILE:N	2.47	0.43
4:O:310:MET:CE	4:O:339:ASP:CG	2.87	0.42
4:O:376:SER:N	4:O:414:GLU:CG	2.82	0.42
7:1:35:TRP:HH2	12:6:273:LYS:NZ	2.13	0.42
7:1:61:ALA:HB1	7:1:80:TYR:HB3	2.00	0.42
7:1:645:ASN:ND2	7:1:647:HIS:HB2	2.34	0.42
8:2:9:GLN:O	8:2:13:ASN:HB2	2.18	0.42
9:3:214:PHE:CE1	9:3:223:LYS:HB3	2.54	0.42
9:3:286:LEU:HA	9:3:286:LEU:HD23	1.78	0.42
10:4:153:LEU:HA	10:4:156:GLU:CG	2.49	0.42
10:4:196:THR:HG23	10:4:197:ALA:N	2.34	0.42
10:4:233:TYR:O	10:4:237:GLU:HG3	2.18	0.42
10:4:89:VAL:O	10:4:89:VAL:HG12	2.19	0.42
11:5:108:ALA:O	11:5:111:LEU:HB2	2.19	0.42
11:5:225:TYR:CE2	11:5:278:VAL:CG1	3.02	0.42
11:5:280:GLN:HA	11:5:280:GLN:OE1	2.17	0.42
11:5:53:TYR:O	11:5:54:TYR:C	2.57	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:6:268:GLU:CB	12:6:299:GLN:HE22	2.32	0.42
13:7:128:PHE:CG	13:7:130:PRO:HB2	2.53	0.42
7:1:10:SER:CB	13:7:170:GLN:CD	2.87	0.42
13:7:343:ALA:HA	13:7:346:LEU:HB2	2.00	0.42
14:8:251:LEU:HA	14:8:251:LEU:HD23	1.80	0.42
16:AA:4:GLU:HB2	16:AA:106:LYS:C	2.39	0.42
16:AA:97:LEU:HD11	16:AA:108:ARG:O	2.19	0.42
8:2:71:VAL:HA	16:AA:17:ARG:HH21	1.84	0.42
16:AA:5:SER:CB	16:AA:100:ARG:HB2	2.49	0.42
20:C:183:LEU:HD21	20:C:211:ILE:HB	2.00	0.42
20:C:73:LEU:CD2	20:C:135:ILE:HG12	2.49	0.42
1:I:132:TYR:CZ	2:H:153:LEU:CD2	3.02	0.42
2:H:407:LYS:HA	2:H:410:LEU:HD12	2.01	0.42
1:I:135:ILE:HG12	1:I:136:LEU:O	2.19	0.42
5:J:167:LEU:CD1	5:J:174:LEU:HD12	2.34	0.42
5:J:373:GLU:HB3	5:J:375:ARG:CD	2.49	0.42
5:J:377:HIS:CD2	11:R:206:SER:CB	2.82	0.42
3:L:188:ALA:HA	3:L:195:PHE:CE2	2.54	0.42
3:L:232:MET:O	3:L:278:ALA:CB	2.66	0.42
3:L:281:ARG:O	3:L:284:THR:HG22	2.18	0.42
4:M:295:ARG:NE	4:M:339:ASP:OD2	2.47	0.42
4:M:342:LEU:O	4:M:347:ARG:HB2	2.18	0.42
7:N:423:MET:C	7:N:427:LEU:HG	2.39	0.42
10:Q:244:SER:N	10:Q:245:PRO:CD	2.82	0.42
10:Q:299:LEU:CD1	10:Q:331:LEU:HA	2.48	0.42
11:R:14:ASN:HB3	11:R:15:PRO:HA	2.00	0.42
11:R:228:MET:SD	11:R:260:LEU:HD23	2.59	0.42
11:R:286:TRP:CD1	11:R:286:TRP:C	2.92	0.42
4:0:172:VAL:HA	4:0:175:MET:HE3	2.01	0.42
4:0:311:LEU:HD23	4:0:311:LEU:HA	1.85	0.42
7:1:200:VAL:O	7:1:204:ILE:N	2.32	0.42
7:1:613:ASP:HA	7:1:616:ARG:HB3	2.00	0.42
7:1:634:PRO:HG3	7:1:668:ALA:HB2	2.00	0.42
9:3:150:ALA:HB3	9:3:166:LEU:HD23	2.01	0.42
9:3:269:SER:O	9:3:273:TYR:CD2	2.66	0.42
9:3:373:ILE:O	9:3:412:ILE:HG23	2.19	0.42
9:3:78:LYS:HA	9:3:79:GLU:O	2.17	0.42
10:4:298:SER:OG	10:4:301:ASP:HB3	2.18	0.42
11:5:366:TYR:O	11:5:366:TYR:HD1	2.02	0.42
12:6:348:PHE:CD2	12:6:361:PHE:HA	2.50	0.42
12:6:448:GLU:HB3	12:6:461:LYS:CB	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:6:482:PHE:CD1	12:6:486:ILE:CD1	3.03	0.42
13:7:145:ARG:O	13:7:149:GLU:HG3	2.18	0.42
13:7:194:LEU:HD11	13:7:259:PHE:HE2	1.83	0.42
15:9:49:VAL:HA	15:9:50:PRO:HA	1.60	0.42
18:AC:164:GLY:CA	18:AC:167:ALA:CB	2.77	0.42
19:B:203:SER:O	19:B:207:SER:HA	2.18	0.42
21:D:48:GLU:OE2	21:D:50:ARG:NE	2.48	0.42
2:H:143:ASP:HB2	2:H:150:HIS:CE1	2.54	0.42
2:H:285:PHE:O	2:H:286:ASP:CB	2.67	0.42
1:I:181:GLN:O	1:I:241:ASN:HB2	2.18	0.42
1:I:220:LYS:N	1:I:348:ASP:OD2	2.52	0.42
1:I:398:ILE:C	1:I:419:PHE:CE1	2.92	0.42
6:K:285:VAL:O	6:K:286:GLN:C	2.58	0.42
6:K:244:PRO:CB	6:K:291:GLU:CG	2.97	0.42
6:K:341:LYS:NZ	6:K:367:PRO:O	2.52	0.42
6:K:41:TYR:O	7:N:183:LEU:CD2	2.68	0.42
6:K:47:LEU:O	6:K:50:GLU:HB2	2.19	0.42
6:K:91:GLN:NE2	6:K:91:GLN:O	2.53	0.42
3:L:163:GLY:C	3:L:164:ILE:HG13	2.39	0.42
3:L:199:VAL:CG1	4:M:315:ASN:CG	2.88	0.42
4:M:185:TYR:CE2	4:M:243:GLN:HG2	2.54	0.42
7:N:604:HIS:CA	7:N:607:VAL:HB	2.47	0.42
7:N:360:VAL:CB	7:N:727:LYS:HZ3	2.32	0.42
8:O:158:LEU:CG	8:O:159:SER:N	2.82	0.42
8:O:364:GLU:CG	8:O:365:MET:N	2.82	0.42
9:P:373:ILE:O	9:P:412:ILE:HG23	2.19	0.42
11:R:237:ARG:HA	11:R:241:ILE:HB	2.02	0.42
11:R:317:GLY:O	11:R:321:GLU:HB3	2.19	0.42
14:U:275:LEU:HD13	14:U:279:LYS:HD2	2.01	0.42
14:U:37:GLY:HA2	14:U:56:VAL:CG2	2.47	0.42
16:W:32:ALA:O	16:W:36:VAL:HG13	2.19	0.42
16:W:64:LEU:CG	16:W:101:GLN:CG	2.96	0.42
4:0:169:ASP:O	4:0:170:SER:C	2.58	0.42
4:0:258:GLN:HB2	4:0:263:ASP:HB2	2.00	0.42
7:1:699:THR:HG22	7:1:706:VAL:HG11	2.01	0.42
8:2:183:VAL:HG12	8:2:186:LYS:CG	2.48	0.42
9:3:351:TRP:HA	9:3:351:TRP:CE3	2.54	0.42
10:4:129:LEU:O	10:4:129:LEU:HD23	2.19	0.42
10:4:336:ILE:C	10:4:340:GLU:HG3	2.33	0.42
10:4:74:ARG:HA	10:4:77:LEU:CB	2.50	0.42
11:5:288:PHE:O	11:5:290:PRO:HD2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:6:218:TYR:HB3	12:6:223:LYS:CB	2.50	0.42
12:6:417:ILE:HG22	12:6:418:SER:O	2.19	0.42
8:2:343:LEU:HD21	14:8:216:ALA:CB	2.48	0.42
14:8:39:LEU:N	14:8:93:GLY:O	2.52	0.42
18:AC:205:CYS:O	18:AC:208:LEU:N	2.52	0.42
18:AC:457:ASN:O	18:AC:459:CYS:N	2.52	0.42
2:H:210:LYS:HB3	2:H:312:ARG:HH11	1.84	0.42
1:I:114:GLU:C	1:I:115:ILE:CG1	2.88	0.42
1:I:343:ARG:NH2	33:H:501:ADP:O3A	2.53	0.42
1:I:373:THR:CG2	1:I:413:LYS:HE3	2.47	0.42
5:J:151:ILE:HG22	5:J:154:LEU:HD12	1.99	0.42
5:J:175:PHE:O	5:J:180:ILE:HG13	2.20	0.42
5:J:223:PHE:CZ	6:K:290:LEU:HD13	2.54	0.42
5:J:248:MET:CE	5:J:291:VAL:HB	2.49	0.42
5:J:89:VAL:HG12	5:J:90:HIS:N	2.35	0.42
3:L:56:ILE:N	3:L:100:LEU:O	2.52	0.42
3:L:346:VAL:HG23	3:L:374:VAL:HG11	2.01	0.42
4:M:249:LEU:N	4:M:282:ILE:O	2.44	0.42
4:M:376:SER:N	4:M:414:GLU:CG	2.82	0.42
7:N:457:ILE:O	7:N:460:TYR:HB3	2.19	0.42
7:N:69:TYR:OH	12:S:240:LEU:HG	2.20	0.42
11:R:253:LEU:O	11:R:254:PRO:HB3	2.19	0.42
14:U:127:LYS:O	14:U:128:PRO:HB2	2.19	0.42
14:U:23:PHE:HE2	14:U:126:VAL:HG12	1.58	0.42
14:U:79:TYR:CZ	14:U:91:ILE:CG1	2.67	0.42
16:W:125:VAL:HA	16:W:128:ALA:HB3	2.01	0.42
16:W:149:ASN:O	16:W:151:GLU:HG3	2.19	0.42
25:X:232:ARG:CG	25:X:232:ARG:HH11	3.30	0.42
18:Z:205:CYS:O	18:Z:208:LEU:N	2.52	0.42
15:V:309:PHE:CZ	4:O:248:PHE:CZ	266.52	0.42
4:O:236:LEU:HD13	4:O:354:PHE:CZ	2.53	0.42
7:1:377:HIS:O	7:1:380:THR:N	2.50	0.42
9:3:217:GLU:HA	9:3:220:GLU:OE1	2.19	0.42
9:3:438:LEU:CD1	14:8:236:LEU:HD12	2.49	0.42
11:5:237:ARG:HA	11:5:241:ILE:HB	2.02	0.42
11:5:58:CYS:SG	11:5:59:LYS:N	2.93	0.42
12:6:502:ASN:O	12:6:503:LYS:CB	2.67	0.42
13:7:330:ILE:N	13:7:331:PRO:HD2	2.26	0.42
14:8:178:ASP:C	14:8:179:ILE:HG13	2.39	0.42
14:8:266:ILE:HD13	15:9:248:MET:HE1	2.01	0.42
19:B:193:GLN:O	19:B:197:THR:OG1	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:D:140:ASP:OD2	21:D:146:GLN:NE2	2.42	0.42
22:E:43:LEU:N	22:E:43:LEU:HD23	2.35	0.42
2:H:391:GLU:OE1	2:H:391:GLU:HA	2.18	0.42
1:I:207:HIS:O	1:I:210:TYR:HE1	2.00	0.42
1:I:258:LYS:HB3	1:I:297:SER:OG	2.19	0.42
1:I:408:ARG:C	1:I:410:ARG:H	2.22	0.42
5:J:147:THR:HG22	5:J:150:MET:CE	2.45	0.42
5:J:326:LEU:HG	5:J:330:LYS:HE3	2.01	0.42
5:J:373:GLU:CG	5:J:375:ARG:HD3	2.43	0.42
5:J:84:LYS:HA	5:J:98:ASP:HA	2.00	0.42
6:K:124:LEU:HD12	6:K:142:VAL:HG21	2.01	0.42
6:K:79:VAL:HG12	6:K:79:VAL:O	2.18	0.42
3:L:245:GLU:HG2	3:L:251:ARG:HH21	1.85	0.42
3:L:326:ILE:CG2	3:L:328:TYR:CZ	2.99	0.42
4:M:310:MET:HE3	4:M:339:ASP:CB	2.46	0.42
7:N:413:LYS:CA	7:N:449:ILE:HG12	2.42	0.42
7:N:699:THR:HG22	7:N:706:VAL:HG11	2.01	0.42
7:N:739:ALA:O	7:N:744:VAL:HG22	2.20	0.42
8:O:57:ILE:O	8:O:61:GLU:N	2.36	0.42
8:O:71:VAL:HA	16:W:17:ARG:HH21	1.84	0.42
9:P:247:TYR:HA	9:P:250:ILE:HG22	2.01	0.42
10:Q:239:TYR:CE2	10:Q:246:LYS:CB	3.02	0.42
10:Q:74:ARG:HA	10:Q:77:LEU:CB	2.50	0.42
10:Q:89:VAL:HG12	10:Q:89:VAL:O	2.19	0.42
11:R:267:ARG:CG	11:R:270:VAL:HG11	2.48	0.42
12:S:487:HIS:CE1	12:S:491:VAL:HG21	2.54	0.42
14:U:131:LEU:CD1	14:U:199:LYS:HD2	2.49	0.42
15:V:303:MET:O	15:V:307:VAL:HG22	2.20	0.42
18:Z:226:TYR:O	18:Z:229:VAL:CB	2.68	0.42
18:Z:664:GLU:C	18:Z:666:ILE:N	2.73	0.42
7:1:553:ALA:HA	7:1:585:THR:HA	2.01	0.42
7:1:681:ASN:HA	7:1:684:ARG:HH11	1.85	0.42
8:2:245:VAL:HG21	8:2:300:ALA:CA	2.46	0.42
10:4:229:TYR:CZ	10:4:258:LYS:NZ	2.87	0.42
10:4:239:TYR:CE2	10:4:246:LYS:CB	3.02	0.42
11:5:128:TYR:CA	11:5:131:THR:HG23	2.47	0.42
12:6:494:MET:CA	14:8:275:LEU:CD2	2.97	0.42
7:1:10:SER:CB	13:7:166:ARG:HB3	2.50	0.42
13:7:341:GLU:O	13:7:344:ARG:HB3	2.20	0.42
13:7:342:TYR:O	13:7:345:GLN:HB2	2.19	0.42
16:AA:22:LEU:HA	16:AA:23:PRO:HA	1.63	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AC:192:VAL:HA	18:AC:204:ALA:HB3	2.01	0.42
20:C:74:VAL:HG23	20:C:134:LEU:HB2	2.01	0.42
2:H:121:PHE:HB3	2:H:123:VAL:CG1	2.50	0.42
2:H:372:LEU:HA	2:H:372:LEU:HD22	1.74	0.42
1:I:190:LEU:HD23	1:I:190:LEU:HA	1.84	0.42
1:I:170:LEU:CD1	1:I:269:GLU:HG3	2.49	0.42
1:I:234:LEU:HD12	33:I:501:ADP:C4	2.50	0.42
5:J:154:LEU:HD11	5:J:195:GLY:O	2.20	0.42
5:J:303:SER:C	5:J:305:LEU:N	2.72	0.42
5:J:42:LEU:HA	5:J:45:LEU:HD12	2.00	0.42
6:K:205:TYR:HE1	6:K:332:GLU:CG	2.32	0.42
4:M:153:VAL:HG13	4:M:158:TYR:C	2.39	0.42
4:M:310:MET:CE	4:M:339:ASP:CG	2.87	0.42
7:N:450:HIS:O	7:N:453:HIS:N	2.52	0.42
7:N:60:ALA:O	7:N:64:ALA:N	2.30	0.42
8:O:374:ILE:CD1	13:T:347:GLU:HG2	2.50	0.42
9:P:214:PHE:CE1	9:P:223:LYS:HB3	2.54	0.42
10:Q:171:LEU:HD12	10:Q:175:LYS:HE3	2.02	0.42
10:Q:276:ALA:O	10:Q:279:TYR:N	2.50	0.42
11:R:190:ALA:HA	11:R:287:LEU:O	2.20	0.42
13:T:194:LEU:HD11	13:T:259:PHE:HE2	1.83	0.42
16:W:25:ARG:NH2	16:W:113:VAL:O	2.47	0.42
16:W:5:SER:CB	16:W:100:ARG:HB2	2.49	0.42
17:Y:48:VAL:O	17:Y:49:GLU:C	2.58	0.42
7:1:133:ILE:HA	7:1:136:LYS:HB2	2.01	0.42
7:1:11:LEU:HA	7:1:14:GLU:OE1	2.19	0.42
7:1:739:ALA:O	7:1:744:VAL:HG22	2.20	0.42
7:1:810:THR:HA	7:1:883:ARG:HB2	2.02	0.42
9:3:146:THR:HA	9:3:149:LEU:HG	2.01	0.42
10:4:106:GLU:O	10:4:110:CYS:N	2.41	0.42
10:4:295:LYS:C	10:4:297:ARG:H	2.23	0.42
12:6:289:LEU:HB3	12:6:308:THR:O	2.19	0.42
12:6:325:LYS:HA	12:6:328:VAL:HG12	2.00	0.42
12:6:451:ILE:HB	13:7:279:TYR:CD1	2.54	0.42
13:7:302:TYR:O	13:7:306:ARG:HG2	2.20	0.42
15:9:234:TYR:OH	15:9:298:GLN:NE2	2.53	0.42
16:AA:32:ALA:O	16:AA:36:VAL:HG13	2.19	0.42
2:H:168:GLU:O	2:H:169:LYS:HG3	2.20	0.42
1:I:317:ASP:CG	1:I:318:GLY:N	2.72	0.42
1:I:329:MET:HG3	1:I:347:ILE:HD11	2.01	0.42
1:I:379:THR:O	1:I:380:LEU:C	2.58	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:J:184:LYS:HG3	5:J:280:LEU:CD1	2.48	0.42
5:J:146:SER:OG	5:J:201:ARG:HB3	2.20	0.42
5:J:225:GLY:C	5:J:227:GLY:H	2.23	0.42
5:J:41:ASN:O	5:J:45:LEU:N	2.50	0.42
5:J:57:ARG:NH1	6:K:71:GLU:HG3	2.34	0.42
6:K:167:ILE:CG1	6:K:214:MET:HE1	2.46	0.42
6:K:348:ILE:HG21	6:K:379:CYS:CB	2.49	0.42
3:L:119:VAL:O	3:L:119:VAL:HG12	2.20	0.42
3:L:153:LEU:O	3:L:156:PRO:CD	2.67	0.42
3:L:175:PRO:CD	3:L:178:THR:HG21	2.43	0.42
3:L:207:TYR:O	3:L:209:GLY:N	2.53	0.42
3:L:99:ALA:O	3:L:108:MET:N	2.40	0.42
4:M:317:LEU:HA	4:M:317:LEU:HD12	1.73	0.42
4:M:320:PHE:O	4:M:321:GLN:HB2	2.20	0.42
4:M:236:LEU:HD12	4:M:354:PHE:CE2	2.55	0.42
7:N:119:PRO:C	7:N:120:GLU:CG	2.88	0.42
7:N:792:ASN:CG	7:N:916:ASP:HB2	2.39	0.42
7:N:902:PRO:HD3	7:N:914:LEU:CD1	2.48	0.42
8:O:353:LEU:HA	8:O:353:LEU:HD12	1.87	0.42
9:P:199:TYR:O	9:P:203:GLN:CG	2.67	0.42
10:Q:295:LYS:C	10:Q:297:ARG:H	2.23	0.42
10:Q:48:GLN:O	10:Q:50:ILE:N	2.52	0.42
10:Q:48:GLN:O	10:Q:49:SER:C	2.57	0.42
11:R:286:TRP:NE1	11:R:287:LEU:CD2	2.83	0.42
12:S:61:GLU:O	12:S:65:ARG:N	2.31	0.42
13:T:120:LYS:O	13:T:124:LEU:HB3	2.03	0.42
13:T:346:LEU:HD11	15:V:296:ILE:HD11	2.02	0.42
14:U:83:LYS:HZ2	14:U:90:ARG:HA	1.85	0.42
15:V:115:HIS:ND1	15:V:118:PHE:HE2	2.18	0.42
15:V:149:GLN:HG3	15:V:150:SER:N	2.35	0.42
16:W:51:LEU:O	16:W:61:LEU:N	2.42	0.42
18:Z:457:ASN:O	18:Z:459:CYS:N	2.52	0.42
7:1:183:LEU:HD12	7:1:183:LEU:HA	1.83	0.42
7:1:270:THR:C	7:1:272:GLY:N	2.73	0.42
7:1:457:ILE:O	7:1:460:TYR:HB3	2.19	0.42
8:2:158:LEU:CG	8:2:159:SER:N	2.82	0.42
10:4:202:CYS:O	10:4:206:LEU:CD2	2.61	0.42
12:6:487:HIS:CE1	12:6:491:VAL:HG21	2.54	0.42
8:2:374:ILE:CD1	13:7:347:GLU:CD	2.88	0.42
14:8:224:HIS:HB3	14:8:228:TYR:CE1	2.53	0.42
14:8:67:VAL:HG21	16:AA:92:VAL:HG13	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AC:381:VAL:HA	18:AC:771:LEU:HA	2.01	0.42
19:B:188:ASP:O	19:B:190:THR:N	2.52	0.42
20:C:198:PHE:CZ	20:C:206:ASN:ND2	2.84	0.42
2:H:285:PHE:N	2:H:285:PHE:CD1	2.85	0.42
2:H:327:LEU:HA	2:H:327:LEU:HD13	1.85	0.42
1:I:349:ARG:NH2	2:H:394:MET:SD	2.92	0.42
1:I:226:GLY:N	1:I:232:LYS:HE2	2.34	0.42
1:I:259:TYR:OH	6:K:276:ASP:CG	2.58	0.42
5:J:373:GLU:O	5:J:373:GLU:HG3	2.19	0.42
6:K:342:ARG:CG	6:K:364:VAL:HG11	2.50	0.42
3:L:245:GLU:HG2	3:L:251:ARG:NH2	2.34	0.42
4:M:124:ILE:HD12	4:M:160:ILE:HD11	2.02	0.42
4:M:236:LEU:HD23	4:M:236:LEU:HA	2.03	0.42
4:M:409:ARG:O	4:M:411:GLY:N	2.53	0.42
7:N:191:LYS:HB2	7:N:194:ARG:HH21	1.85	0.42
7:N:355:ASN:HA	7:N:358:ASP:CG	2.39	0.42
7:N:810:THR:HA	7:N:883:ARG:HB2	2.02	0.42
8:O:363:MET:HG3	15:V:308:VAL:CG2	2.49	0.42
9:P:78:LYS:H	9:P:79:GLU:HB3	1.75	0.42
10:Q:233:TYR:C	10:Q:233:TYR:HD1	2.23	0.42
12:S:477:HIS:HA	12:S:480:ILE:HD13	2.02	0.42
7:N:10:SER:CB	13:T:166:ARG:HB3	2.50	0.42
13:T:223:ASN:HB3	13:T:227:LYS:N	2.35	0.42
14:U:39:LEU:N	14:U:93:GLY:O	2.52	0.42
16:W:4:GLU:OE2	16:W:108:ARG:NH2	2.52	0.42
16:W:39:SER:HA	16:W:42:ARG:HB2	2.01	0.42
25:X:152:ASP:HB2	25:X:153:PRO:HD2	2.02	0.42
18:Z:734:SER:HA	18:Z:768:LEU:O	2.19	0.42
4:O:344:ARG:O	4:O:345:SER:HB3	2.19	0.42
7:1:191:LYS:HB2	7:1:194:ARG:HH21	1.85	0.42
7:1:801:GLN:HG2	7:1:880:ASN:H	1.85	0.42
8:2:6:GLY:O	8:2:9:GLN:N	2.53	0.42
9:3:153:LYS:HE2	9:3:162:ALA:HB1	2.01	0.42
9:3:229:LEU:O	9:3:232:GLN:N	2.53	0.42
9:3:321:VAL:HG22	9:3:351:TRP:CH2	2.55	0.42
10:4:239:TYR:O	10:4:244:SER:CA	2.66	0.42
10:4:260:MET:HE1	10:4:325:LYS:CB	2.42	0.42
10:4:46:LYS:O	10:4:49:SER:N	2.53	0.42
10:4:84:LYS:HD2	10:4:84:LYS:HA	1.84	0.42
11:5:241:ILE:HD11	11:5:260:LEU:HD22	1.95	0.42
12:6:432:GLU:HA	12:6:435:GLU:OE2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:7:128:PHE:C	13:7:129:LEU:CG	2.88	0.42
13:7:224:VAL:CG2	13:7:225:TYR:N	2.68	0.42
2:H:161:VAL:CG1	2:H:263:MET:CE	2.88	0.42
2:H:402:LYS:HG3	2:H:403:ILE:HG13	2.02	0.42
1:I:199:GLU:HA	1:I:203:LEU:CB	2.50	0.42
1:I:252:GLY:CA	1:I:255:LEU:HB2	2.45	0.42
1:I:296:ASP:O	1:I:298:ASN:N	2.53	0.42
5:J:112:CYS:HB2	5:J:130:LYS:HG2	2.00	0.42
5:J:161:ILE:CD1	5:J:199:LEU:CG	2.89	0.42
1:I:293:LYS:NZ	5:J:302:ASP:OD2	2.51	0.42
6:K:100:THR:O	6:K:101:ALA:HB2	2.19	0.42
6:K:173:GLN:HE22	6:K:333:PHE:HA	1.83	0.42
3:L:194:ASN:CB	3:L:228:CYS:SG	3.07	0.42
3:L:56:ILE:HG22	3:L:57:VAL:N	2.35	0.42
4:M:183:GLU:OE1	4:M:235:LEU:HD22	2.19	0.42
4:M:253:GLY:N	4:M:254:PRO:HD2	2.35	0.42
2:H:284:ARG:NH1	4:M:334:ARG:HG3	2.35	0.42
7:N:406:ALA:C	7:N:408:LEU:H	2.23	0.42
11:R:118:GLU:O	11:R:121:LEU:HB2	2.19	0.42
11:R:300:ARG:HH21	11:R:337:PHE:HZ	1.56	0.42
12:S:289:LEU:HB3	12:S:308:THR:O	2.19	0.42
7:N:22:PHE:CG	13:T:121:LEU:HD21	2.51	0.42
13:T:156:ILE:HG21	13:T:255:SER:HB2	2.02	0.42
13:T:256:TYR:O	13:T:259:PHE:HB2	2.19	0.42
13:T:341:GLU:O	13:T:344:ARG:HB3	2.20	0.42
13:T:342:TYR:O	13:T:345:GLN:HB2	2.19	0.42
14:U:161:GLU:CG	14:U:162:ILE:N	2.83	0.42
18:Z:738:ASN:O	18:Z:740:ARG:N	2.53	0.42
4:0:359:GLU:O	4:0:362:ARG:CB	2.66	0.42
7:1:447:GLY:O	7:1:451:ALA:N	2.53	0.42
7:1:541:HIS:CD2	7:1:544:ILE:HD12	2.55	0.42
9:3:436:MET:O	9:3:440:ASN:N	2.48	0.42
10:4:171:LEU:HD12	10:4:175:LYS:HE3	2.02	0.42
10:4:351:SER:O	10:4:355:LYS:N	2.50	0.42
10:4:370:LEU:HD11	11:5:306:GLN:HG3	2.02	0.42
11:5:371:LYS:O	11:5:375:LEU:HD23	2.19	0.42
14:8:16:LEU:HD21	14:8:135:THR:CG2	2.50	0.42
16:AA:125:VAL:HA	16:AA:128:ALA:HB3	2.01	0.42
16:AA:49:VAL:HG12	16:AA:50:GLY:O	2.19	0.42
18:AC:247:ALA:O	18:AC:250:ARG:N	2.52	0.42
23:F:202:LEU:HD12	23:F:202:LEU:HA	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:G:62:LYS:HE3	24:G:62:LYS:HB3	1.77	0.42
2:H:112:ILE:CB	2:H:122:VAL:HG22	2.49	0.42
2:H:274:PHE:CB	2:H:277:ILE:HG23	2.50	0.42
1:I:66:GLU:O	1:I:70:ASP:N	2.42	0.42
5:J:274:LEU:HD23	5:J:274:LEU:HA	1.87	0.42
3:L:132:TYR:CE2	3:L:146:ARG:CZ	3.03	0.42
3:L:281:ARG:HA	3:L:282:PRO:HD2	1.80	0.42
3:L:322:LYS:CG	3:L:326:ILE:CD1	2.88	0.42
4:M:191:LEU:O	4:M:195:ILE:CG1	2.65	0.42
4:M:215:LEU:HD22	4:M:217:ILE:CG2	2.26	0.42
8:O:36:GLN:O	8:O:40:GLN:CG	2.67	0.42
9:P:150:ALA:HB3	9:P:166:LEU:HD23	2.01	0.42
10:Q:8:GLU:O	10:Q:12:ALA:N	2.42	0.42
11:R:108:ALA:O	11:R:111:LEU:HB2	2.19	0.42
11:R:225:TYR:CE2	11:R:278:VAL:CG1	3.02	0.42
12:S:218:TYR:HB3	12:S:223:LYS:CB	2.50	0.42
13:T:128:PHE:C	13:T:129:LEU:CG	2.88	0.42
16:W:20:ASP:OD1	16:W:25:ARG:HA	2.19	0.42
16:W:21:PHE:CE2	16:W:28:ALA:HB1	2.55	0.42
4:0:286:ASP:C	4:0:287:GLU:HG2	2.38	0.42
4:0:295:ARG:HH11	4:0:295:ARG:CG	2.33	0.42
4:0:369:HIS:CD2	4:0:397:LYS:HB2	2.55	0.42
4:0:409:ARG:O	4:0:411:GLY:N	2.53	0.42
7:1:12:LEU:HD11	7:1:48:LEU:CD1	2.48	0.42
7:1:427:LEU:HD23	7:1:427:LEU:HA	1.93	0.42
7:1:84:ALA:HB1	7:1:87:LEU:HB2	2.01	0.42
9:3:408:ARG:HD2	9:3:408:ARG:HA	1.71	0.42
10:4:232:PHE:CE1	10:4:253:TYR:CB	3.03	0.42
13:7:114:GLU:O	13:7:117:GLY:N	2.48	0.42
14:8:211:TYR:OH	14:8:223:ASN:ND2	2.44	0.42
9:3:422:ASN:ND2	15:9:235:SER:HA	2.35	0.42
16:AA:149:ASN:O	16:AA:151:GLU:HG3	2.19	0.42
17:AB:42:ASN:O	17:AB:43:TRP:CB	2.68	0.42
20:C:133:LEU:O	20:C:147:GLN:HA	2.20	0.42
5:J:134:LEU:N	5:J:237:MET:CE	2.83	0.42
6:K:257:ASN:O	6:K:258:ALA:CB	2.67	0.42
3:L:140:GLU:O	3:L:144:GLU:CB	2.68	0.42
3:L:182:LEU:CD1	3:L:185:ARG:NH1	2.83	0.42
3:L:223:ARG:HG3	3:L:223:ARG:HH11	1.85	0.42
3:L:264:MET:CE	3:L:275:MET:CE	2.91	0.42
4:M:169:ASP:O	4:M:170:SER:C	2.58	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:N:158:ARG:HA	7:N:193:PHE:CZ	2.55	0.42
7:N:270:THR:C	7:N:272:GLY:N	2.73	0.42
7:N:462:LEU:O	7:N:465:LEU:HB2	2.19	0.42
7:N:541:HIS:CD2	7:N:544:ILE:HD12	2.55	0.42
7:N:681:ASN:HA	7:N:684:ARG:HH11	1.85	0.42
7:N:793:LYS:C	7:N:795:LEU:N	2.73	0.42
7:N:793:LYS:H	7:N:916:ASP:CB	2.33	0.42
8:O:346:ILE:O	8:O:349:MET:HB2	2.20	0.42
10:Q:153:LEU:HA	10:Q:156:GLU:CG	2.49	0.42
10:Q:370:LEU:O	11:R:233:ARG:HD3	2.20	0.42
5:J:162:LYS:NZ	11:R:99:GLU:OE2	2.53	0.42
12:S:432:GLU:HA	12:S:435:GLU:OE2	2.20	0.42
8:O:343:LEU:HD21	14:U:216:ALA:CB	2.48	0.42
9:P:438:LEU:CD1	14:U:236:LEU:HD12	2.49	0.42
15:V:234:TYR:OH	15:V:298:GLN:NE2	2.53	0.42
18:Z:412:ALA:O	18:Z:416:MET:N	2.46	0.42
4:O:139:LEU:O	4:O:140:VAL:HG22	2.20	0.41
4:O:153:VAL:HG13	4:O:158:TYR:C	2.39	0.41
4:O:258:GLN:CG	4:O:263:ASP:HB3	2.50	0.41
7:1:94:SER:OG	7:1:97:VAL:HG23	2.20	0.41
10:4:233:TYR:HD1	10:4:233:TYR:C	2.23	0.41
11:5:286:TRP:NE1	11:5:287:LEU:CD2	2.83	0.41
18:AC:140:LEU:O	18:AC:143:ARG:N	2.52	0.41
20:C:58:GLU:CD	20:C:58:GLU:H	2.23	0.41
21:D:164:ILE:HD13	21:D:164:ILE:HA	1.91	0.41
2:H:355:PHE:HD2	2:H:370:PHE:HB3	1.85	0.41
1:I:136:LEU:HD22	2:H:87:LEU:HD22	1.87	0.41
1:I:231:GLY:C	1:I:353:PHE:CD2	2.93	0.41
5:J:209:CYS:SG	5:J:243:PRO:CB	3.00	0.41
5:J:329:LEU:HD21	5:J:344:LEU:HB3	2.00	0.41
6:K:187:HIS:O	6:K:191:TYR:HD2	2.03	0.41
6:K:244:PRO:CB	6:K:248:ARG:NH1	2.83	0.41
3:L:61:LEU:HG	3:L:72:LYS:H	1.84	0.41
4:M:123:VAL:O	4:M:124:ILE:HG13	2.20	0.41
4:M:378:ASP:C	4:M:379:VAL:HG23	2.40	0.41
7:N:94:SER:OG	7:N:97:VAL:HG23	2.20	0.41
8:O:6:GLY:O	8:O:9:GLN:N	2.53	0.41
9:P:229:LEU:O	9:P:232:GLN:N	2.53	0.41
9:P:351:TRP:HA	9:P:351:TRP:CE3	2.54	0.41
10:Q:129:LEU:O	10:Q:129:LEU:HD23	2.19	0.41
10:Q:127:GLN:O	10:Q:130:GLU:HB2	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:Q:90:ARG:O	10:Q:94:ASP:HB2	2.20	0.41
11:R:31:HIS:O	11:R:31:HIS:CG	2.72	0.41
11:R:58:CYS:SG	11:R:59:LYS:N	2.93	0.41
12:S:448:GLU:HB3	12:S:461:LYS:CB	2.49	0.41
14:U:214:LYS:O	14:U:218:GLY:N	2.53	0.41
14:U:32:GLN:O	14:U:33:LYS:CB	2.68	0.41
4:0:249:LEU:N	4:0:282:ILE:O	2.44	0.41
4:0:86:LEU:N	4:0:87:PRO:CD	2.83	0.41
7:1:158:ARG:HA	7:1:193:PHE:CZ	2.55	0.41
7:1:680:VAL:HB	7:1:683:VAL:CG2	2.48	0.41
7:1:885:MET:HB3	7:1:888:GLN:N	2.35	0.41
7:1:900:TYR:HB3	7:1:915:LYS:O	2.19	0.41
10:4:204:PRO:O	10:4:205:LYS:C	2.58	0.41
10:4:218:HIS:HD2	10:4:231:TYR:CD2	2.38	0.41
11:5:146:ARG:HH11	11:5:213:LEU:CD1	2.31	0.41
11:5:31:HIS:O	11:5:31:HIS:CG	2.72	0.41
14:8:214:LYS:O	14:8:218:GLY:N	2.53	0.41
14:8:40:LEU:HD11	14:8:91:ILE:HD12	1.95	0.41
16:AA:4:GLU:OE2	16:AA:108:ARG:NH2	2.52	0.41
16:AA:8:VAL:N	16:AA:50:GLY:O	2.35	0.41
18:AC:738:ASN:O	18:AC:740:ARG:N	2.53	0.41
24:G:10:VAL:HG11	24:G:120:THR:HA	2.02	0.41
2:H:99:THR:CB	2:H:142:VAL:CG2	2.94	0.41
1:I:199:GLU:HA	1:I:203:LEU:HB2	2.03	0.41
1:I:204:PRO:O	1:I:208:PRO:HG3	2.19	0.41
1:I:373:THR:CB	1:I:413:LYS:HG2	2.47	0.41
5:J:141:GLU:O	6:K:323:ARG:HD3	2.20	0.41
5:J:65:LEU:HD21	6:K:114:ARG:NH2	2.35	0.41
6:K:89:ILE:HA	6:K:130:VAL:O	2.20	0.41
6:K:247:VAL:HG13	6:K:251:PHE:CD2	2.52	0.41
6:K:267:ILE:HG12	6:K:267:ILE:H	1.69	0.41
6:K:299:PHE:CD1	6:K:303:VAL:CB	3.03	0.41
3:L:141:GLN:HG2	3:L:299:ILE:CG2	2.50	0.41
3:L:235:ILE:C	3:L:237:ALA:N	2.73	0.41
3:L:254:GLN:HA	3:L:257:LEU:HB3	2.02	0.41
3:L:257:LEU:HD13	3:L:258:MET:N	2.35	0.41
4:M:191:LEU:HD23	4:M:191:LEU:HA	1.83	0.41
2:H:309:PHE:CZ	4:M:248:PHE:CZ	3.08	0.41
4:M:254:PRO:O	4:M:257:VAL:CB	2.68	0.41
4:M:399:VAL:H	4:M:427:VAL:HG11	1.85	0.41
4:M:86:LEU:N	4:M:87:PRO:CD	2.83	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:N:56:SER:O	7:N:58:GLN:N	2.53	0.41
9:P:126:ASP:HA	9:P:129:ARG:HB3	2.03	0.41
9:P:131:VAL:HG11	9:P:142:ARG:HB2	1.96	0.41
9:P:422:ASN:ND2	15:V:235:SER:HA	2.35	0.41
10:Q:2:ALA:CB	10:Q:34:ASP:H	2.23	0.41
12:S:482:PHE:CD1	12:S:486:ILE:CD1	3.03	0.41
13:T:336:ALA:O	13:T:340:ILE:N	2.24	0.41
14:U:101:LEU:HD23	14:U:138:TYR:HE2	1.85	0.41
15:V:309:PHE:C	15:V:310:LYS:HG2	2.41	0.41
16:W:164:ASP:HB3	16:W:169:HIS:CE1	2.55	0.41
16:W:7:MET:HA	16:W:50:GLY:N	2.29	0.41
4:0:123:VAL:O	4:0:124:ILE:HG13	2.20	0.41
4:0:191:LEU:O	4:0:195:ILE:CG1	2.65	0.41
4:0:383:GLU:OE1	4:0:417:HIS:CE1	2.73	0.41
7:1:205:TYR:O	7:1:208:LEU:N	2.50	0.41
7:1:31:VAL:O	7:1:35:TRP:HD1	2.03	0.41
8:2:346:ILE:O	8:2:349:MET:HB2	2.20	0.41
10:4:168:GLU:O	10:4:172:LEU:N	2.37	0.41
10:4:48:GLN:C	10:4:52:GLU:CB	2.88	0.41
11:5:192:ARG:NH1	11:5:294:TYR:CD2	2.89	0.41
12:6:290:TYR:CD1	12:6:290:TYR:C	2.93	0.41
12:6:463:MET:O	12:6:466:ILE:HG12	2.21	0.41
13:7:344:ARG:HG2	13:7:348:MET:HG2	1.96	0.41
14:8:127:LYS:O	14:8:128:PRO:HB2	2.19	0.41
14:8:161:GLU:CG	14:8:162:ILE:N	2.83	0.41
14:8:32:GLN:O	14:8:33:LYS:CB	2.68	0.41
15:9:90:VAL:O	15:9:94:LYS:HB2	2.21	0.41
16:AA:20:ASP:OD1	16:AA:25:ARG:HA	2.19	0.41
16:AA:21:PHE:CE2	16:AA:28:ALA:HB1	2.55	0.41
18:AC:226:TYR:O	18:AC:229:VAL:CB	2.68	0.41
18:AC:747:GLN:O	18:AC:750:GLN:CA	2.69	0.41
19:B:212:PRO:HB2	19:B:232:GLU:HG3	2.02	0.41
20:C:72:GLY:HA3	20:C:217:PHE:CE1	2.55	0.41
21:D:58:GLU:HB3	22:E:96:LEU:CD2	53.92	0.41
2:H:241:ILE:O	2:H:244:GLU:HB2	2.20	0.41
2:H:315:ILE:CD1	2:H:315:ILE:N	2.69	0.41
2:H:219:GLY:HA2	33:H:501:ADP:H5'2	2.02	0.41
2:H:86:THR:O	2:H:89:SER:OG	2.37	0.41
1:I:132:TYR:C	1:I:133:VAL:HG13	2.40	0.41
1:I:163:LEU:HG	1:I:164:MET:N	2.35	0.41
1:I:197:ILE:CG2	1:I:235:LEU:HD11	2.42	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:240:ALA:O	1:I:243:THR:HG22	2.19	0.41
5:J:131:VAL:O	5:J:132:ASP:O	2.37	0.41
5:J:320:PRO:HG2	5:J:354:ALA:O	2.19	0.41
3:L:56:ILE:HG22	3:L:100:LEU:HB2	2.02	0.41
3:L:152:PRO:HA	3:L:159:PHE:HE2	1.85	0.41
3:L:61:LEU:HB2	3:L:70:ILE:HG22	2.02	0.41
4:M:369:HIS:CD2	4:M:397:LYS:HB2	2.55	0.41
4:M:383:GLU:OE1	4:M:417:HIS:CE1	2.73	0.41
7:N:529:ILE:O	7:N:533:VAL:N	2.45	0.41
7:N:368:ALA:HB2	7:N:728:PHE:CE2	2.56	0.41
7:N:84:ALA:HB1	7:N:87:LEU:HB2	2.01	0.41
8:O:139:GLU:HA	8:O:155:PHE:CZ	2.55	0.41
10:Q:160:MET:O	10:Q:161:ASP:HB2	2.19	0.41
10:Q:211:ASP:O	10:Q:214:SER:N	2.53	0.41
11:R:214:MET:CE	11:R:219:PHE:HB2	2.50	0.41
11:R:321:GLU:CG	11:R:322:ALA:H	2.34	0.41
12:S:451:ILE:HB	13:T:279:TYR:CD1	2.54	0.41
14:U:16:LEU:HD21	14:U:135:THR:CG2	2.50	0.41
14:U:185:GLY:C	14:U:186:THR:HG1	2.14	0.41
4:O:137:ILE:O	4:O:140:VAL:HG22	2.20	0.41
4:O:289:ASP:HA	4:O:292:GLY:O	2.19	0.41
7:1:132:GLY:O	7:1:136:LYS:N	2.30	0.41
7:1:462:LEU:O	7:1:465:LEU:HB2	2.19	0.41
7:1:634:PRO:HA	7:1:637:VAL:HG22	2.03	0.41
7:1:801:GLN:HG2	7:1:880:ASN:N	2.36	0.41
9:3:384:LEU:CD1	9:3:388:GLU:CB	2.95	0.41
10:4:223:LYS:O	10:4:224:ASP:HB2	2.21	0.41
10:4:37:GLU:CB	10:4:39:ASP:H	2.33	0.41
10:4:62:GLN:O	10:4:66:LEU:N	2.51	0.41
11:5:214:MET:CE	11:5:219:PHE:HB2	2.50	0.41
11:5:229:ILE:HD11	11:5:295:TYR:HH	1.78	0.41
11:5:271:PHE:HZ	11:5:299:MET:CE	2.33	0.41
12:6:217:VAL:O	12:6:218:TYR:C	2.58	0.41
13:7:160:ASP:O	13:7:163:SER:OG	2.09	0.41
14:8:196:HIS:ND1	14:8:196:HIS:C	2.74	0.41
15:9:225:TRP:CE3	15:9:226:MET:N	2.87	0.41
15:9:255:TYR:O	15:9:259:VAL:HG23	2.20	0.41
17:AB:55:GLN:HA	17:AB:58:ALA:CB	2.48	0.41
18:AC:387:GLN:O	18:AC:389:LYS:N	2.53	0.41
19:B:94:ALA:HA	19:B:118:ILE:HD11	2.02	0.41
2:H:346:PRO:CG	2:H:354:ILE:CD1	2.98	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:417:ILE:H	2:H:417:ILE:HG13	1.69	0.41
1:I:112:LEU:C	1:I:147:GLY:H	2.23	0.41
1:I:277:HIS:O	1:I:278:ALA:HB3	2.20	0.41
1:I:355:LEU:HD23	1:I:355:LEU:N	2.35	0.41
5:J:271:ARG:CG	5:J:275:GLU:OE1	2.66	0.41
6:K:180:ALA:C	6:K:184:PRO:HG2	2.41	0.41
3:L:150:GLU:HG3	3:L:191:LEU:HD21	2.02	0.41
3:L:303:LEU:O	3:L:304:PRO:C	2.58	0.41
3:L:62:LYS:CG	3:L:70:ILE:HD12	2.51	0.41
7:N:133:ILE:HA	7:N:136:LYS:HB2	2.01	0.41
7:N:162:VAL:C	7:N:164:GLU:N	2.73	0.41
7:N:31:VAL:O	7:N:35:TRP:HD1	2.03	0.41
8:O:245:VAL:HG11	8:O:300:ALA:CA	2.46	0.41
9:P:165:ILE:HG13	9:P:166:LEU:N	2.35	0.41
10:Q:203:PRO:HG2	10:Q:204:PRO:HD2	2.02	0.41
11:R:128:TYR:CA	11:R:131:THR:HG23	2.47	0.41
11:R:292:TYR:HD1	11:R:293:ARG:N	2.16	0.41
11:R:304:TYR:CD2	11:R:334:LEU:CD2	2.90	0.41
12:S:480:ILE:CB	13:T:342:TYR:CE1	2.99	0.41
12:S:487:HIS:ND1	12:S:487:HIS:C	2.72	0.41
12:S:502:ASN:O	12:S:503:LYS:CB	2.67	0.41
13:T:236:LEU:O	13:T:238:GLU:N	2.54	0.41
13:T:302:TYR:O	13:T:306:ARG:HG2	2.20	0.41
15:V:255:TYR:O	15:V:259:VAL:HG23	2.20	0.41
4:0:229:PRO:HA	4:0:333:ASN:ND2	2.34	0.41
4:0:253:GLY:N	4:0:254:PRO:HD2	2.35	0.41
4:0:320:PHE:O	4:0:321:GLN:HB2	2.20	0.41
4:0:347:ARG:CG	4:0:347:ARG:NH1	2.83	0.41
4:0:362:ARG:HE	4:0:388:THR:CB	2.33	0.41
7:1:150:ALA:O	7:1:153:ILE:HB	2.20	0.41
7:1:3:THR:N	13:7:127:ASN:CG	2.74	0.41
7:1:715:LYS:O	7:1:719:ASP:N	2.44	0.41
7:1:741:GLY:C	7:1:743:ASN:H	2.23	0.41
7:1:793:LYS:H	7:1:916:ASP:CB	2.33	0.41
8:2:3:ASP:O	8:2:6:GLY:N	2.54	0.41
12:6:477:HIS:HA	12:6:480:ILE:HD13	2.02	0.41
13:7:223:ASN:HB3	13:7:227:LYS:N	2.35	0.41
8:2:374:ILE:CD1	13:7:347:GLU:HG2	2.50	0.41
21:D:115:CYS:HB3	21:D:154:GLY:O	2.20	0.41
1:I:387:LYS:CB	1:I:390:LEU:HB3	2.50	0.41
1:I:95:GLU:HA	1:I:98:LYS:HD2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:J:146:SER:O	5:J:202:ALA:HA	2.21	0.41
5:J:205:HIS:C	5:J:207:THR:H	2.24	0.41
5:J:322:GLU:O	5:J:326:LEU:HB2	2.20	0.41
6:K:339:ARG:O	6:K:342:ARG:HB2	2.20	0.41
6:K:53:PHE:C	6:K:57:GLN:OE1	2.58	0.41
3:L:148:VAL:CG1	3:L:170:CYS:SG	3.09	0.41
3:L:264:MET:CE	3:L:277:MET:HE1	2.50	0.41
3:L:141:GLN:CG	3:L:299:ILE:HG23	2.50	0.41
3:L:65:THR:N	3:L:68:LYS:HB2	2.34	0.41
4:M:196:GLN:O	4:M:200:GLU:N	2.36	0.41
4:M:367:GLN:O	4:M:371:ARG:N	2.52	0.41
7:N:232:ILE:HA	7:N:235:LYS:HE3	2.03	0.41
7:N:372:ALA:HA	7:N:375:PHE:CD2	2.56	0.41
7:N:801:GLN:HG2	7:N:880:ASN:N	2.36	0.41
8:O:25:LEU:O	8:O:29:TYR:N	2.31	0.41
9:P:396:LEU:CD2	9:P:401:THR:CB	2.77	0.41
11:R:259:TYR:C	11:R:259:TYR:CD1	2.88	0.41
11:R:371:LYS:O	11:R:375:LEU:HD23	2.19	0.41
12:S:372:LEU:O	12:S:375:PHE:HB3	2.21	0.41
13:T:212:LEU:HD23	13:T:212:LEU:HA	1.87	0.41
15:V:160:PHE:HA	15:V:203:ILE:HD12	2.02	0.41
15:V:225:TRP:CE3	15:V:226:MET:N	2.87	0.41
4:0:378:ASP:C	4:0:379:VAL:HG23	2.40	0.41
7:1:406:ALA:C	7:1:408:LEU:H	2.22	0.41
7:1:69:TYR:OH	12:6:240:LEU:HG	2.20	0.41
8:2:177:LEU:HA	8:2:177:LEU:HD23	1.92	0.41
9:3:107:GLN:C	9:3:141:GLU:CD	2.76	0.41
9:3:153:LYS:CE	9:3:162:ALA:HB2	2.51	0.41
9:3:183:VAL:O	9:3:187:LEU:HD13	2.20	0.41
10:4:244:SER:N	10:4:245:PRO:CD	2.82	0.41
10:4:277:LEU:C	10:4:279:TYR:N	2.74	0.41
11:5:197:ALA:HB1	11:5:201:PHE:HE2	1.80	0.41
11:5:286:TRP:CD1	11:5:286:TRP:C	2.92	0.41
11:5:316:LEU:HA	11:5:316:LEU:HD23	1.87	0.41
12:6:60:ALA:O	12:6:64:GLN:N	2.36	0.41
14:8:122:VAL:HG22	14:8:137:ALA:CA	2.33	0.41
14:8:131:LEU:CD1	14:8:199:LYS:HD2	2.49	0.41
14:8:101:LEU:HD23	14:8:138:TYR:HE2	1.85	0.41
15:9:149:GLN:O	15:9:150:SER:C	2.59	0.41
15:9:309:PHE:C	15:9:310:LYS:HG2	2.41	0.41
17:AB:48:VAL:O	17:AB:49:GLU:C	2.58	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AC:281:ILE:O	18:AC:285:CYS:N	2.40	0.41
18:AC:505:MET:HA	18:AC:515:ALA:HB1	2.03	0.41
19:B:32:ILE:HD13	19:B:137:CYS:HB2	2.01	0.41
2:H:264:ALA:HB1	2:H:315:ILE:HG23	2.02	0.41
1:I:218:PRO:CG	1:I:326:LYS:HZ3	2.34	0.41
1:I:238:ALA:O	1:I:241:ASN:HB3	2.20	0.41
1:I:231:GLY:CA	33:I:501:ADP:O1A	2.69	0.41
5:J:187:LEU:HB2	5:J:311:ILE:HG23	2.00	0.41
5:J:370:ALA:HB2	5:J:382:ASP:OD2	2.20	0.41
5:J:87:VAL:O	5:J:94:LYS:HA	2.21	0.41
6:K:337:ASP:O	6:K:341:LYS:HE3	2.21	0.41
6:K:66:LYS:CE	6:K:70:LYS:HE3	2.50	0.41
3:L:52:SER:HB2	4:M:136:VAL:HG21	2.02	0.41
4:M:206:MET:O	4:M:206:MET:SD	2.78	0.41
4:M:295:ARG:CG	4:M:295:ARG:HH11	2.33	0.41
7:N:35:TRP:CH2	7:N:70:HIS:HB3	2.56	0.41
10:Q:204:PRO:O	10:Q:205:LYS:C	2.58	0.41
10:Q:218:HIS:HD2	10:Q:231:TYR:CD2	2.38	0.41
12:S:469:THR:O	12:S:472:PRO:CD	2.66	0.41
8:O:374:ILE:CD1	13:T:347:GLU:CD	2.88	0.41
16:W:52:ILE:HG22	16:W:60:VAL:HG22	2.03	0.41
4:O:173:LYS:C	4:O:175:MET:H	2.24	0.41
7:1:424:ALA:HA	7:1:427:LEU:HD12	2.03	0.41
7:1:42:VAL:O	7:1:46:GLU:HG2	2.21	0.41
7:1:672:LEU:O	7:1:676:THR:HG23	2.21	0.41
7:1:793:LYS:C	7:1:795:LEU:N	2.73	0.41
8:2:348:GLY:O	8:2:352:ARG:CG	2.57	0.41
9:3:126:ASP:HA	9:3:129:ARG:HB3	2.03	0.41
9:3:317:TRP:CE3	9:3:317:TRP:CA	3.04	0.41
9:3:343:SER:C	9:3:348:GLU:HB2	2.39	0.41
10:4:204:PRO:O	10:4:207:GLN:N	2.54	0.41
10:4:299:LEU:HD11	10:4:331:LEU:CB	2.51	0.41
11:5:268:TYR:CB	11:5:323:PHE:HE1	2.31	0.41
12:6:302:TYR:O	12:6:305:ALA:N	2.47	0.41
14:8:47:VAL:HG12	14:8:48:LEU:H	1.85	0.41
14:8:74:TYR:CE1	15:9:98:MET:HE2	2.55	0.41
20:C:185:ASP:OD1	10:4:122:ARG:HB2	2.21	0.41
21:D:14:PRO:HA	22:E:21:TYR:CD1	2.55	0.41
22:E:116:GLN:HG3	23:F:83:ALA:HB1	2.02	0.41
2:H:102:ILE:CD1	2:H:120:LYS:CG	2.91	0.41
2:H:319:MET:CE	2:H:337:LEU:CD1	2.97	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:383:ALA:O	2:H:386:ARG:CB	2.67	0.41
1:I:122:ILE:CD1	1:I:130:GLU:O	2.69	0.41
1:I:219:PRO:O	1:I:220:LYS:C	2.59	0.41
1:I:266:LEU:HD21	5:J:229:ARG:HB3	2.03	0.41
5:J:201:ARG:HD3	5:J:201:ARG:HA	1.89	0.41
1:I:295:TYR:OH	5:J:271:ARG:HB2	2.21	0.41
5:J:338:LEU:CD2	5:J:342:ILE:CD1	2.87	0.41
5:J:374:ARG:HD2	5:J:374:ARG:N	2.36	0.41
6:K:163:MET:CA	6:K:221:HIS:ND1	2.80	0.41
3:L:213:ARG:NH1	3:L:213:ARG:HB3	2.35	0.41
3:L:221:TYR:C	3:L:221:TYR:CD1	2.93	0.41
4:M:173:LYS:C	4:M:175:MET:H	2.24	0.41
3:L:243:PHE:HD1	4:M:300:LYS:H	1.68	0.41
7:N:390:LEU:HA	7:N:390:LEU:HD23	1.82	0.41
7:N:399:TRP:HH2	7:N:507:VAL:HG23	1.85	0.41
7:N:560:MET:HB3	7:N:590:TYR:CE1	2.56	0.41
7:N:566:LEU:O	7:N:570:LEU:N	2.27	0.41
7:N:49:TYR:HA	7:N:57:ARG:HD2	2.03	0.41
7:N:634:PRO:HA	7:N:637:VAL:HG22	2.03	0.41
7:N:804:SER:HB2	7:N:893:THR:H	1.85	0.41
11:R:273:GLN:O	11:R:277:VAL:HG23	2.21	0.41
11:R:314:LEU:CD1	11:R:319:MET:HG3	2.50	0.41
11:R:268:TYR:CB	11:R:323:PHE:HE1	2.31	0.41
13:T:341:GLU:O	13:T:344:ARG:N	2.53	0.41
6:K:80:LYS:HB3	15:V:151:VAL:HG23	2.02	0.41
15:V:266:THR:O	15:V:270:LEU:HB2	2.20	0.41
16:W:138:VAL:O	16:W:168:SER:HA	2.21	0.41
17:Y:42:ASN:O	17:Y:43:TRP:CB	2.68	0.41
18:Z:309:GLU:O	18:Z:313:GLU:CB	2.69	0.41
18:Z:387:GLN:O	18:Z:389:LYS:N	2.53	0.41
18:Z:485:LEU:HA	18:Z:488:ALA:CB	2.44	0.41
18:Z:518:THR:O	18:Z:522:CYS:N	2.32	0.41
18:Z:747:GLN:O	18:Z:750:GLN:CA	2.69	0.41
4:0:244:THR:HG21	4:0:282:ILE:CD1	2.51	0.41
4:0:399:VAL:H	4:0:427:VAL:HG11	1.85	0.41
7:1:504:ASP:HB3	7:1:541:HIS:HE1	1.85	0.41
7:1:548:LEU:HD23	7:1:548:LEU:HA	1.92	0.41
7:1:560:MET:HB3	7:1:590:TYR:CE1	2.56	0.41
7:1:592:GLY:HA2	7:1:628:ARG:HG3	2.03	0.41
7:1:660:CYS:O	7:1:694:ILE:HG23	2.21	0.41
9:3:166:LEU:HD21	9:3:192:LEU:HD12	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:3:165:ILE:HG13	9:3:166:LEU:N	2.35	0.41
10:4:202:CYS:HB3	10:4:207:GLN:HG3	2.03	0.41
10:4:211:ASP:O	10:4:214:SER:N	2.53	0.41
10:4:276:ALA:O	10:4:278:ARG:CA	2.67	0.41
11:5:138:LEU:CG	11:5:167:LEU:HB3	2.51	0.41
11:5:190:ALA:HA	11:5:287:LEU:O	2.20	0.41
11:5:28:LEU:C	11:5:30:GLU:H	2.25	0.41
13:7:156:ILE:HG21	13:7:255:SER:HB2	2.02	0.41
13:7:341:GLU:O	13:7:344:ARG:N	2.53	0.41
14:8:59:ASP:HB2	16:AA:99:HIS:HD2	1.84	0.41
16:AA:54:LEU:HA	16:AA:58:CYS:CB	2.50	0.41
2:H:306:LEU:O	2:H:307:ASP:CB	2.69	0.41
5:J:273:MET:HE1	5:J:305:LEU:HD22	1.99	0.41
6:K:118:THR:O	6:K:119:ILE:C	2.59	0.41
6:K:348:ILE:HG21	6:K:379:CYS:HB2	2.02	0.41
6:K:98:GLN:C	6:K:99:ASN:ND2	2.73	0.41
3:L:97:ARG:CZ	3:L:112:PRO:O	2.69	0.41
3:L:130:VAL:HB	3:L:134:GLU:CG	2.51	0.41
3:L:146:ARG:HG2	3:L:146:ARG:HH11	1.85	0.41
3:L:96:THR:HG22	3:L:98:VAL:HG13	2.03	0.41
4:M:161:LEU:HA	4:M:161:LEU:HD23	1.85	0.41
7:N:136:LYS:O	7:N:139:GLN:HB2	2.20	0.41
7:N:35:TRP:HH2	12:S:273:LYS:NZ	2.13	0.41
7:N:741:GLY:C	7:N:743:ASN:H	2.23	0.41
8:O:132:LYS:HB2	8:O:162:TYR:CE1	2.49	0.41
9:P:321:VAL:HG22	9:P:351:TRP:CH2	2.55	0.41
10:Q:204:PRO:O	10:Q:207:GLN:N	2.54	0.41
10:Q:255:LEU:HD21	10:Q:270:LEU:CG	2.51	0.41
10:Q:332:GLU:OE2	10:Q:332:GLU:HA	2.20	0.41
12:S:217:VAL:O	12:S:218:TYR:C	2.58	0.41
13:T:243:LYS:O	13:T:246:LEU:N	2.54	0.41
14:U:40:LEU:CG	14:U:91:ILE:HD13	2.51	0.41
15:V:248:MET:CE	15:V:284:LEU:HA	2.50	0.41
16:W:17:ARG:HB3	16:W:81:LYS:HA	2.03	0.41
16:W:54:LEU:HA	16:W:58:CYS:CB	2.50	0.41
4:0:185:TYR:CE2	4:0:243:GLN:HG2	2.54	0.41
4:0:236:LEU:HD12	4:0:354:PHE:CE2	2.55	0.41
7:1:136:LYS:O	7:1:139:GLN:HB2	2.20	0.41
7:1:56:SER:O	7:1:58:GLN:N	2.53	0.41
7:1:631:GLU:O	7:1:634:PRO:HD2	2.21	0.41
7:1:637:VAL:O	7:1:640:LEU:N	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:1:79:ASN:HA	7:1:82:LEU:HD12	2.03	0.41
8:2:361:LYS:O	8:2:365:MET:HB2	2.21	0.41
8:2:363:MET:HG3	15:9:308:VAL:CG2	2.49	0.41
9:3:315:MET:O	9:3:316:ARG:O	2.39	0.41
10:4:297:ARG:HD3	10:4:333:GLN:OE1	2.21	0.41
11:5:53:TYR:OH	11:5:150:PHE:CZ	2.57	0.41
11:5:228:MET:CB	11:5:259:TYR:OH	2.69	0.41
13:7:195:ASN:O	13:7:198:PHE:HB2	2.21	0.41
14:8:237:LEU:HA	14:8:237:LEU:HD23	1.85	0.41
12:6:469:THR:CG2	14:8:250:TYR:CG	2.80	0.41
15:9:217:LEU:O	15:9:220:LEU:HB2	2.21	0.41
16:AA:142:ASN:HD21	16:AA:148:VAL:H	1.69	0.41
18:AC:412:ALA:CA	18:AC:447:ALA:HB2	2.32	0.41
2:H:232:ARG:O	2:H:232:ARG:HG2	2.21	0.41
1:I:337:LEU:HD13	1:I:337:LEU:HA	1.78	0.41
1:I:230:THR:HG23	1:I:354:PRO:O	2.21	0.41
5:J:134:LEU:H	5:J:237:MET:CE	2.34	0.41
5:J:301:LEU:HD12	5:J:301:LEU:C	2.41	0.41
6:K:205:TYR:CZ	6:K:332:GLU:HG2	2.56	0.41
4:M:88:TYR:OH	4:M:161:LEU:HB2	2.21	0.41
7:N:42:VAL:O	7:N:46:GLU:HG2	2.21	0.41
7:N:504:ASP:HB3	7:N:541:HIS:CE1	2.56	0.41
7:N:586:VAL:CG1	7:N:601:ARG:HH22	2.19	0.41
7:N:604:HIS:O	7:N:607:VAL:HB	2.21	0.41
7:N:616:ARG:HB2	7:N:647:HIS:HB3	2.03	0.41
7:N:672:LEU:O	7:N:676:THR:HG23	2.21	0.41
7:N:801:GLN:HG2	7:N:880:ASN:H	1.85	0.41
7:N:79:ASN:HA	7:N:82:LEU:HD12	2.03	0.41
9:P:183:VAL:O	9:P:187:LEU:HD13	2.20	0.41
10:Q:135:SER:CB	10:Q:172:LEU:HD21	2.44	0.41
10:Q:299:LEU:HD11	10:Q:331:LEU:CB	2.51	0.41
11:R:134:LEU:HD11	11:R:138:LEU:CG	2.51	0.41
11:R:192:ARG:NH1	11:R:294:TYR:CD2	2.89	0.41
11:R:366:TYR:O	11:R:370:ILE:HG12	2.21	0.41
12:S:268:GLU:CB	12:S:299:GLN:HE22	2.32	0.41
13:T:121:LEU:HA	13:T:121:LEU:HD23	1.87	0.41
14:U:117:PRO:CG	14:U:118:ASN:H	2.34	0.41
15:V:52:GLU:CD	15:V:82:VAL:HG12	2.41	0.41
25:X:232:ARG:CG	25:X:232:ARG:NH1	3.68	0.41
24:G:176:MET:CE	25:X:56:LYS:HB3	2.50	0.41
18:Z:193:PRO:O	18:Z:197:ALA:N	2.29	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:1:472:ILE:C	7:1:474:ARG:N	2.74	0.41
7:1:49:TYR:HA	7:1:57:ARG:HD2	2.03	0.41
7:1:35:TRP:CH2	7:1:70:HIS:HB3	2.56	0.41
8:2:248:PHE:CZ	8:2:272:ILE:CG1	3.04	0.41
10:4:299:LEU:HD11	10:4:331:LEU:CA	2.50	0.41
10:4:394:ASP:OD1	10:4:395:LYS:N	2.54	0.41
11:5:14:ASN:N	11:5:15:PRO:CA	2.81	0.41
11:5:253:LEU:O	11:5:254:PRO:HB3	2.19	0.41
11:5:271:PHE:HE1	11:5:275:LEU:HD22	1.86	0.41
11:5:30:GLU:HA	11:5:31:HIS:CB	2.43	0.41
12:6:449:ALA:HA	12:6:461:LYS:CG	2.51	0.41
13:7:243:LYS:O	13:7:246:LEU:N	2.54	0.41
15:9:96:LEU:HA	15:9:96:LEU:HD23	1.82	0.41
17:AB:43:TRP:HA	17:AB:44:ASP:HA	1.73	0.41
18:AC:309:GLU:O	18:AC:313:GLU:CB	2.69	0.41
20:C:79:GLY:O	20:C:82:TYR:HB3	2.20	0.41
22:E:101:PRO:HB2	22:E:102:VAL:H	1.71	0.41
24:G:185:ASN:OD1	24:G:189:LYS:HE3	2.21	0.41
2:H:313:GLY:C	2:H:315:ILE:CD1	2.89	0.41
2:H:351:ARG:CA	2:H:354:ILE:HD12	2.40	0.41
1:I:114:GLU:O	1:I:121:ALA:CB	2.69	0.41
1:I:116:ILE:C	1:I:118:ASP:H	2.25	0.41
1:I:272:ARG:CG	1:I:272:ARG:NH1	2.80	0.41
5:J:151:ILE:HG23	33:J:501:ADP:C6	2.56	0.41
5:J:137:LEU:HD12	5:J:220:VAL:HG22	2.02	0.41
5:J:137:LEU:HB2	5:J:224:ILE:HD11	1.93	0.41
5:J:247:PHE:HD1	5:J:292:ILE:HB	1.86	0.41
5:J:31:LEU:HD23	5:J:31:LEU:HA	1.80	0.41
5:J:36:ASN:C	5:J:38:LYS:N	2.74	0.41
5:J:151:ILE:HA	33:J:501:ADP:N1	2.36	0.41
6:K:408:LYS:C	6:K:410:ASP:N	2.74	0.41
3:L:87:LEU:CD1	3:L:107:ILE:HG21	2.51	0.41
3:L:193:CYS:O	3:L:194:ASN:HB2	2.21	0.41
3:L:329:GLU:O	3:L:333:LYS:HB2	2.21	0.41
3:L:303:LEU:CD1	3:L:337:GLY:O	2.62	0.41
4:M:137:ILE:O	4:M:140:VAL:HG22	2.20	0.41
4:M:258:GLN:CG	4:M:263:ASP:HB3	2.50	0.41
7:N:150:ALA:O	7:N:153:ILE:HB	2.20	0.41
7:N:213:PHE:O	7:N:216:VAL:N	2.54	0.41
7:N:424:ALA:HA	7:N:427:LEU:HD12	2.03	0.41
7:N:447:GLY:O	7:N:451:ALA:N	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:O:292:THR:HA	8:O:329:LYS:O	2.21	0.41
9:P:90:LEU:C	9:P:90:LEU:CD2	2.89	0.41
10:Q:154:LEU:HD22	10:Q:154:LEU:HA	1.90	0.41
10:Q:242:ILE:HG13	10:Q:243:ASP:N	2.28	0.41
10:Q:232:PHE:CE1	10:Q:253:TYR:CB	3.03	0.41
11:R:183:TYR:CZ	11:R:213:LEU:CD1	2.95	0.41
11:R:215:ASP:HB3	11:R:216:TYR:H	1.74	0.41
11:R:21:GLN:CB	11:R:286:TRP:CE3	3.04	0.41
12:S:290:TYR:C	12:S:290:TYR:CD1	2.93	0.41
12:S:487:HIS:CD2	14:U:267:ARG:HD3	2.56	0.41
12:S:60:ALA:O	12:S:64:GLN:N	2.36	0.41
13:T:135:LYS:O	13:T:138:LYS:N	2.54	0.41
13:T:195:ASN:O	13:T:198:PHE:HB2	2.21	0.41
14:U:230:LEU:O	14:U:233:VAL:HB	2.21	0.41
15:V:217:LEU:O	15:V:220:LEU:HB2	2.21	0.41
15:V:231:LEU:HD23	15:V:231:LEU:HA	1.75	0.41
18:Z:140:LEU:O	18:Z:143:ARG:N	2.52	0.41
4:O:206:MET:SD	4:O:206:MET:O	2.78	0.41
4:O:224:LEU:HB2	4:O:348:LEU:HD22	2.03	0.41
7:1:368:ALA:HB2	7:1:728:PHE:CE2	2.56	0.41
7:1:462:LEU:HA	7:1:465:LEU:HB2	2.02	0.41
8:2:139:GLU:HA	8:2:155:PHE:CZ	2.55	0.41
9:3:419:LYS:HA	9:3:423:ASN:HD22	1.86	0.41
11:5:104:MET:HB3	11:5:127:THR:HG22	2.03	0.41
11:5:41:LEU:O	11:5:44:ALA:N	2.54	0.41
13:7:346:LEU:HD11	15:9:296:ILE:HD11	2.02	0.41
18:AC:117:GLU:O	18:AC:120:ARG:N	2.39	0.41
2:H:247:GLN:OE1	2:H:256:MET:HE3	2.20	0.41
2:H:259:GLU:HG2	2:H:259:GLU:H	1.65	0.41
2:H:235:ALA:HB1	2:H:269:ALA:O	2.21	0.41
1:I:214:MET:CE	2:H:393:GLY:HA2	2.51	0.41
5:J:36:ASN:O	5:J:38:LYS:N	2.54	0.41
6:K:88:VAL:CG2	6:K:88:VAL:O	2.69	0.41
3:L:104:THR:HG22	3:L:106:THR:HG23	2.02	0.41
3:L:334:LEU:CD2	3:L:372:ARG:HH11	2.32	0.41
4:M:233:LYS:CD	33:M:501:ADP:O1B	2.65	0.41
4:M:80:ILE:HG22	4:M:84:LYS:CG	2.38	0.41
7:N:587:ALA:O	7:N:590:TYR:N	2.54	0.41
7:N:616:ARG:NH1	7:N:650:TYR:HE2	2.14	0.41
7:N:748:LEU:HB2	7:N:759:SER:CB	2.51	0.41
9:P:190:MET:C	9:P:193:CYS:SG	2.94	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:P:315:MET:O	9:P:316:ARG:O	2.39	0.41
9:P:390:GLU:O	9:P:394:SER:OG	2.26	0.41
11:R:286:TRP:HE1	11:R:287:LEU:HD13	1.86	0.41
10:Q:370:LEU:CD1	11:R:306:GLN:HG3	2.51	0.41
12:S:348:PHE:CD2	12:S:361:PHE:HA	2.50	0.41
13:T:179:LYS:HB3	13:T:182:LEU:HB3	2.03	0.41
25:X:215:TRP:CD1	25:X:227:VAL:HA	2.55	0.41
18:Z:377:VAL:O	18:Z:381:VAL:N	2.52	0.41
18:Z:505:MET:HA	18:Z:515:ALA:HB1	2.03	0.41
7:1:162:VAL:C	7:1:164:GLU:N	2.73	0.40
7:1:17:PRO:HB3	7:1:54:PHE:HD2	1.87	0.40
7:1:372:ALA:HA	7:1:375:PHE:CD2	2.56	0.40
7:1:406:ALA:C	7:1:408:LEU:N	2.74	0.40
7:1:399:TRP:HH2	7:1:507:VAL:HG23	1.85	0.40
7:1:776:SER:O	7:1:779:LEU:N	2.36	0.40
7:1:765:VAL:HG11	7:1:778:PHE:CD1	2.56	0.40
8:2:364:GLU:CG	8:2:365:MET:N	2.82	0.40
9:3:168:GLU:C	9:3:170:GLN:N	2.66	0.40
9:3:317:TRP:CH2	9:3:351:TRP:CH2	3.09	0.40
9:3:90:LEU:C	9:3:90:LEU:CD2	2.89	0.40
10:4:110:CYS:O	10:4:111:LEU:C	2.59	0.40
10:4:335:LEU:HA	10:4:335:LEU:HD23	1.74	0.40
11:5:20:ALA:O	11:5:23:ARG:HB3	2.22	0.40
11:5:220:VAL:HG11	11:5:249:VAL:CG1	2.51	0.40
12:6:209:LYS:O	12:6:213:TYR:HD2	2.04	0.40
14:8:34:ARG:HH21	14:8:102:HIS:HD2	1.64	0.40
12:6:487:HIS:CD2	14:8:267:ARG:HD3	2.56	0.40
15:9:115:HIS:ND1	15:9:118:PHE:HE2	2.18	0.40
18:AC:485:LEU:HA	18:AC:488:ALA:CB	2.44	0.40
18:AC:604:GLY:C	18:AC:606:VAL:N	2.75	0.40
18:AC:776:LEU:HA	18:AC:827:PRO:CA	2.49	0.40
19:B:138:MET:HB3	19:B:154:CYS:SG	2.61	0.40
19:B:202:LEU:O	19:B:205:VAL:HG13	2.18	0.40
20:C:183:LEU:O	20:C:187:ILE:HG13	2.21	0.40
23:F:20:ARG:HB3	4:0:435:LEU:HD13	1.93	0.40
23:F:76:CYS:SG	23:F:141:LEU:HD22	2.61	0.40
2:H:112:ILE:C	2:H:113:ILE:HG13	2.42	0.40
2:H:215:PHE:HZ	2:H:342:GLU:HG2	1.86	0.40
2:H:345:LEU:HD12	2:H:430:MET:HE3	2.02	0.40
1:I:338:ASP:OD1	1:I:339:PRO:HD2	2.21	0.40
1:I:356:PRO:HG3	1:I:364:ILE:CD1	2.50	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:J:149:GLU:CG	11:R:133:ALA:CB	2.90	0.40
5:J:306:LEU:HD23	5:J:311:ILE:HD12	2.03	0.40
5:J:38:LYS:H	5:J:38:LYS:HG2	1.65	0.40
6:K:160:PRO:CD	6:K:220:ALA:HB1	2.51	0.40
6:K:373:ALA:O	6:K:376:ASN:CB	2.68	0.40
3:L:183:LEU:O	3:L:187:VAL:HG23	2.21	0.40
3:L:78:ARG:HB3	6:K:89:ILE:HD12	2.03	0.40
7:N:383:ASP:O	7:N:386:LEU:HB2	2.21	0.40
7:N:592:GLY:HA2	7:N:628:ARG:HG3	2.03	0.40
7:N:645:ASN:ND2	7:N:647:HIS:HB2	2.34	0.40
7:N:7:GLY:O	7:N:11:LEU:N	2.31	0.40
9:P:153:LYS:CE	9:P:162:ALA:HB2	2.51	0.40
9:P:166:LEU:HD21	9:P:192:LEU:HD12	2.03	0.40
10:Q:111:LEU:HA	10:Q:111:LEU:HD23	1.77	0.40
10:Q:223:LYS:O	10:Q:224:ASP:HB2	2.21	0.40
10:Q:370:LEU:HD11	11:R:306:GLN:HG3	2.02	0.40
11:R:138:LEU:CG	11:R:167:LEU:HB3	2.51	0.40
11:R:220:VAL:HG11	11:R:249:VAL:CG1	2.51	0.40
12:S:267:ALA:O	12:S:270:LEU:HB3	2.21	0.40
13:T:309:VAL:HG12	13:T:309:VAL:H	1.45	0.40
4:O:88:TYR:OH	4:O:161:LEU:HB2	2.21	0.40
7:1:217:CYS:O	7:1:221:ILE:N	2.29	0.40
7:1:587:ALA:O	7:1:590:TYR:N	2.54	0.40
7:1:804:SER:HB2	7:1:893:THR:H	1.85	0.40
9:3:309:PHE:HE1	9:3:315:MET:HE1	1.86	0.40
10:4:162:ASP:OD2	10:4:165:LEU:CD1	2.68	0.40
10:4:255:LEU:HD21	10:4:270:LEU:CG	2.51	0.40
11:5:48:ASN:HB3	11:5:50:MET:SD	2.57	0.40
12:6:161:PRO:HA	12:6:164:GLU:CB	2.51	0.40
13:7:303:ALA:O	13:7:307:GLY:N	2.54	0.40
15:9:160:PHE:HA	15:9:203:ILE:HD12	2.02	0.40
15:9:248:MET:CE	15:9:284:LEU:HA	2.50	0.40
18:AC:198:HIS:C	18:AC:200:ALA:H	2.24	0.40
18:AC:279:GLU:O	18:AC:283:THR:N	2.40	0.40
18:AC:352:HIS:HA	18:AC:355:ASN:CB	2.52	0.40
19:B:208:ILE:O	19:B:209:ASP:HB2	2.21	0.40
2:H:133:ASP:C	2:H:134:ILE:CG1	2.89	0.40
2:H:183:GLN:HB3	2:H:343:PHE:CE1	2.56	0.40
2:H:213:LEU:HD22	2:H:214:LEU:N	2.35	0.40
2:H:297:ARG:NH1	4:M:303:ASP:OD2	2.53	0.40
1:I:131:HIS:CE1	2:H:97:ARG:HG3	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:349:ARG:HH11	1:I:349:ARG:CG	2.30	0.40
1:I:369:THR:OG1	1:I:380:LEU:HD21	2.21	0.40
5:J:303:SER:O	5:J:305:LEU:N	2.54	0.40
5:J:46:GLN:HB3	6:K:61:ILE:CG2	2.49	0.40
6:K:129:SER:OG	6:K:252:ARG:NH1	2.54	0.40
6:K:169:GLY:HA2	6:K:343:LEU:CD1	2.51	0.40
6:K:236:VAL:HG12	6:K:288:ILE:HD11	2.01	0.40
6:K:240:LEU:N	6:K:240:LEU:CD2	2.76	0.40
6:K:247:VAL:CG1	6:K:251:PHE:HE2	2.29	0.40
6:K:267:ILE:HD13	6:K:309:MET:CG	2.51	0.40
6:K:374:ASP:C	6:K:376:ASN:N	2.72	0.40
6:K:370:ILE:CG2	6:K:375:ILE:HG13	2.52	0.40
3:L:56:ILE:CG2	3:L:100:LEU:HB2	2.51	0.40
3:L:55:GLN:NE2	3:L:108:MET:SD	2.95	0.40
3:L:253:ILE:O	3:L:254:GLN:O	2.38	0.40
3:L:339:ASN:O	3:L:343:LEU:CD1	2.70	0.40
3:L:349:GLU:HA	3:L:349:GLU:OE2	2.21	0.40
3:L:57:VAL:O	3:L:74:THR:OG1	2.34	0.40
3:L:77:PRO:HB2	6:K:106:THR:CB	2.51	0.40
7:N:486:MET:SD	7:N:761:VAL:HG21	2.61	0.40
9:P:184:GLU:O	9:P:187:LEU:HB2	2.22	0.40
10:Q:97:LEU:HD22	10:Q:136:LEU:HD21	2.03	0.40
11:R:377:LEU:HD11	12:S:479:ARG:HG3	2.04	0.40
12:S:486:ILE:O	12:S:490:SER:OG	2.24	0.40
12:S:504:ASP:O	12:S:505:LEU:CB	2.69	0.40
14:U:83:LYS:HA	14:U:83:LYS:HD3	1.84	0.40
15:V:238:CYS:O	15:V:242:GLU:HG3	2.21	0.40
16:W:142:ASN:HD21	16:W:148:VAL:H	1.69	0.40
18:Z:315:GLU:O	18:Z:319:GLU:CB	2.70	0.40
18:Z:597:VAL:O	18:Z:599:ALA:N	2.51	0.40
7:1:42:VAL:HA	7:1:45:ILE:HB	2.04	0.40
8:2:292:THR:HA	8:2:329:LYS:O	2.21	0.40
10:4:135:SER:CB	10:4:172:LEU:HD21	2.44	0.40
10:4:242:ILE:HG23	10:4:243:ASP:H	1.86	0.40
10:4:339:ILE:CG2	10:4:385:LEU:HD23	2.52	0.40
10:4:416:ASN:N	10:4:416:ASN:OD1	2.54	0.40
10:4:84:LYS:CD	10:4:88:LEU:HD23	2.52	0.40
10:4:90:ARG:O	10:4:94:ASP:HB2	2.20	0.40
11:5:273:GLN:O	11:5:277:VAL:HG23	2.21	0.40
11:5:292:TYR:HD1	11:5:293:ARG:H	1.69	0.40
11:5:53:TYR:HD1	11:5:57:LEU:HD13	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:8:117:PRO:HG2	14:8:118:ASN:H	1.87	0.40
14:8:196:HIS:ND1	14:8:196:HIS:O	2.52	0.40
14:8:25:ARG:NH1	15:9:71:ASP:OD2	2.44	0.40
16:AA:25:ARG:NH2	16:AA:113:VAL:O	2.47	0.40
16:AA:147:GLU:OE2	16:AA:174:PRO:HA	2.21	0.40
20:C:177:TYR:O	20:C:178:ASN:ND2	2.52	0.40
22:E:115:LYS:NZ	22:E:147:THR:OG1	2.47	0.40
24:G:189:LYS:HE2	24:G:235:GLY:O	2.22	0.40
2:H:384:GLU:O	2:H:387:SER:OG	2.32	0.40
2:H:403:ILE:H	2:H:403:ILE:HG13	1.61	0.40
1:I:294:ARG:HE	1:I:294:ARG:HB3	1.62	0.40
1:I:320:ASP:O	1:I:321:SER:CB	2.69	0.40
5:J:328:ILE:HG12	33:J:501:ADP:C2	2.55	0.40
5:J:373:GLU:HB3	5:J:375:ARG:HG2	2.03	0.40
5:J:65:LEU:O	5:J:68:GLU:N	2.51	0.40
6:K:276:ASP:O	6:K:282:ASP:CB	2.68	0.40
6:K:319:PRO:C	6:K:321:LEU:N	2.74	0.40
6:K:390:ASN:O	6:K:391:ARG:HB3	2.22	0.40
6:K:395:LEU:HA	6:K:395:LEU:HD23	1.84	0.40
6:K:60:TYR:CE1	7:N:607:VAL:CG2	3.04	0.40
6:K:63:ASP:HB3	7:N:607:VAL:CG1	2.52	0.40
3:L:200:SER:O	3:L:237:ALA:CB	2.69	0.40
3:L:241:ARG:HG2	3:L:241:ARG:HH11	1.86	0.40
3:L:251:ARG:HA	3:L:254:GLN:HG3	2.03	0.40
3:L:363:VAL:O	3:L:367:PHE:HD2	2.05	0.40
4:M:123:VAL:C	4:M:124:ILE:HG13	2.42	0.40
4:M:139:LEU:O	4:M:140:VAL:HG22	2.20	0.40
4:M:224:LEU:HB2	4:M:348:LEU:HD22	2.03	0.40
4:M:187:ASP:O	4:M:368:ILE:HG21	2.21	0.40
7:N:3:THR:N	13:T:127:ASN:CG	2.74	0.40
7:N:42:VAL:HA	7:N:45:ILE:HB	2.04	0.40
7:N:637:VAL:O	7:N:640:LEU:N	2.54	0.40
7:N:660:CYS:O	7:N:694:ILE:HG23	2.21	0.40
9:P:317:TRP:CH2	9:P:354:LEU:HD23	2.57	0.40
10:Q:155:ARG:H	10:Q:155:ARG:HG2	1.72	0.40
10:Q:202:CYS:HB3	10:Q:207:GLN:HG3	2.03	0.40
10:Q:335:LEU:HA	10:Q:335:LEU:HD23	1.74	0.40
10:Q:340:GLU:CB	10:Q:341:PRO:HD3	2.42	0.40
10:Q:394:ASP:OD1	10:Q:395:LYS:N	2.54	0.40
11:R:66:ASP:O	11:R:68:ASP:N	2.54	0.40
13:T:303:ALA:O	13:T:307:GLY:N	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:U:196:HIS:C	14:U:196:HIS:ND1	2.74	0.40
16:W:6:THR:HG22	16:W:7:MET:N	2.37	0.40
4:0:165:PRO:HB2	4:0:166:THR:H	1.75	0.40
7:1:366:HIS:CE1	7:1:392:TRP:CE2	3.10	0.40
7:1:450:HIS:O	7:1:453:HIS:N	2.52	0.40
7:1:604:HIS:O	7:1:607:VAL:HB	2.21	0.40
7:1:486:MET:SD	7:1:761:VAL:HG21	2.61	0.40
8:2:216:LEU:HD12	8:2:217:LEU:HG	2.03	0.40
9:3:435:LEU:HD23	9:3:435:LEU:C	2.41	0.40
10:4:370:LEU:O	11:5:233:ARG:HD3	2.20	0.40
11:5:170:GLU:CG	11:5:171:GLY:H	2.35	0.40
10:4:401:LEU:CD2	11:5:369:THR:HA	2.46	0.40
13:7:179:LYS:HB3	13:7:182:LEU:HB3	2.03	0.40
14:8:108:ILE:O	14:8:111:LEU:N	2.55	0.40
14:8:72:HIS:HB3	14:8:115:TYR:OH	2.21	0.40
15:9:123:SER:O	15:9:126:ASP:HB2	2.21	0.40
15:9:238:CYS:O	15:9:242:GLU:HG3	2.21	0.40
16:AA:140:ILE:HD13	16:AA:153:LEU:HD22	2.04	0.40
18:AC:318:THR:CA	18:AC:322:SER:CB	2.99	0.40
20:C:204:GLU:OE2	20:C:226:LYS:HE2	2.21	0.40
2:H:157:ILE:O	2:H:158:ASP:HB2	2.22	0.40
1:I:291:GLY:C	1:I:293:LYS:N	2.73	0.40
5:J:248:MET:HE3	5:J:291:VAL:HB	2.03	0.40
5:J:151:ILE:HG23	33:J:501:ADP:N6	2.36	0.40
3:L:292:PRO:HD2	6:K:374:ASP:OD1	2.21	0.40
6:K:377:SER:O	6:K:381:GLU:HG2	2.22	0.40
6:K:394:VAL:HG12	6:K:395:LEU:O	2.21	0.40
3:L:98:VAL:HG12	3:L:110:TYR:CB	2.52	0.40
3:L:132:TYR:HD1	3:L:132:TYR:N	2.18	0.40
3:L:356:ARG:NH1	3:L:356:ARG:CG	2.78	0.40
3:L:65:THR:HG21	3:L:68:LYS:HD2	2.03	0.40
4:M:399:VAL:N	4:M:427:VAL:HG11	2.36	0.40
4:M:86:LEU:HA	4:M:86:LEU:HD23	1.66	0.40
7:N:214:ILE:HA	7:N:217:CYS:HB3	2.04	0.40
7:N:429:LYS:C	7:N:431:THR:H	2.25	0.40
7:N:494:TYR:HD1	7:N:516:LEU:HB3	1.87	0.40
7:N:504:ASP:HB3	7:N:541:HIS:HE1	1.85	0.40
8:O:216:LEU:HD12	8:O:217:LEU:HG	2.03	0.40
9:P:317:TRP:CE2	9:P:321:VAL:CG2	3.05	0.40
9:P:317:TRP:CE3	9:P:317:TRP:CA	3.04	0.40
10:Q:276:ALA:O	10:Q:278:ARG:CA	2.67	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:Q:277:LEU:C	10:Q:279:TYR:N	2.74	0.40
10:Q:302:PHE:CZ	10:Q:326:LEU:HB3	2.56	0.40
10:Q:320:SER:O	10:Q:321:THR:C	2.59	0.40
11:R:24:PHE:CE2	11:R:285:ASP:O	2.75	0.40
11:R:29:PRO:O	11:R:30:GLU:CG	2.70	0.40
11:R:366:TYR:OH	12:S:472:PRO:CA	2.69	0.40
12:S:161:PRO:HA	12:S:164:GLU:CB	2.51	0.40
15:V:78:SER:O	15:V:80:THR:N	2.55	0.40
18:Z:352:HIS:HA	18:Z:355:ASN:CB	2.52	0.40
18:Z:604:GLY:C	18:Z:606:VAL:N	2.75	0.40
18:Z:662:MET:C	18:Z:664:GLU:N	2.72	0.40
4:0:140:VAL:HG11	4:0:160:ILE:HG21	2.03	0.40
7:1:21:GLU:O	7:1:25:HIS:N	2.33	0.40
7:1:541:HIS:CB	7:1:544:ILE:HB	2.52	0.40
7:1:561:GLU:HA	7:1:564:ASP:OD2	2.22	0.40
7:1:616:ARG:HB2	7:1:647:HIS:HB3	2.03	0.40
9:3:259:GLU:HB2	9:3:262:LYS:HD2	2.03	0.40
9:3:425:LEU:HD13	15:9:234:TYR:CD2	2.57	0.40
9:3:76:GLU:CG	9:3:77:ALA:N	2.84	0.40
10:4:332:GLU:HA	10:4:332:GLU:OE2	2.20	0.40
10:4:370:LEU:CD1	11:5:306:GLN:HG3	2.51	0.40
11:5:24:PHE:CE2	11:5:285:ASP:O	2.75	0.40
11:5:321:GLU:CG	11:5:322:ALA:H	2.34	0.40
11:5:377:LEU:HD11	12:6:479:ARG:HG3	2.04	0.40
13:7:236:LEU:O	13:7:238:GLU:N	2.54	0.40
14:8:134:PRO:HD3	15:9:219:ASN:ND2	2.37	0.40
15:9:231:LEU:HD23	15:9:231:LEU:HA	1.75	0.40
18:AC:383:ALA:O	18:AC:384:ALA:CB	2.65	0.40
21:D:197:LEU:HA	21:D:197:LEU:HD12	1.86	0.40
2:H:108:ASP:HB3	2:H:109:PRO:CD	2.51	0.40
2:H:132:THR:OG1	2:H:133:ASP:N	2.55	0.40
2:H:157:ILE:HG22	2:H:263:MET:SD	2.50	0.40
1:I:176:VAL:HG21	5:J:283:PHE:CE1	2.57	0.40
1:I:190:LEU:HB3	1:I:191:ASP:H	1.72	0.40
1:I:195:GLN:NE2	2:H:398:ARG:HD2	2.37	0.40
5:J:115:ALA:CB	5:J:124:HIS:HB3	2.52	0.40
5:J:155:ASP:O	5:J:159:LYS:N	2.52	0.40
5:J:157:GLN:HB2	5:J:199:LEU:HD21	2.03	0.40
5:J:328:ILE:CD1	33:J:501:ADP:C6	3.05	0.40
6:K:93:LEU:CG	6:K:102:ILE:O	2.70	0.40
6:K:261:ILE:CG2	6:K:308:ILE:HD12	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:351:GLY:O	3:L:354:ALA:HB3	2.21	0.40
4:M:244:THR:HG21	4:M:282:ILE:CD1	2.51	0.40
4:M:414:GLU:O	4:M:415:LEU:O	2.39	0.40
7:N:561:GLU:HA	7:N:564:ASP:OD2	2.22	0.40
7:N:680:VAL:HB	7:N:683:VAL:CG2	2.48	0.40
9:P:435:LEU:HD23	9:P:435:LEU:C	2.41	0.40
10:Q:394:ASP:O	10:Q:398:GLU:HG3	2.22	0.40
10:Q:85:ALA:O	10:Q:89:VAL:CB	2.70	0.40
10:Q:401:LEU:CD2	11:R:369:THR:HA	2.46	0.40
12:S:209:LYS:O	12:S:213:TYR:HD2	2.04	0.40
12:S:227:VAL:O	12:S:230:PHE:CG	2.75	0.40
14:U:16:LEU:HD23	14:U:16:LEU:HA	1.87	0.40
14:U:30:GLY:HA3	14:U:127:LYS:HZ1	1.87	0.40
16:W:30:GLN:O	16:W:33:VAL:HB	2.21	0.40
18:Z:761:MET:O	18:Z:765:ALA:N	2.39	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	I	355/440 (81%)	255 (72%)	72 (20%)	28 (8%)	1	14
1	w	355/440 (81%)	255 (72%)	71 (20%)	29 (8%)	1	13
2	H	376/433 (87%)	248 (66%)	91 (24%)	37 (10%)	1	10
2	v	376/433 (87%)	249 (66%)	88 (23%)	39 (10%)	1	8
3	L	373/389 (96%)	264 (71%)	72 (19%)	37 (10%)	1	10
3	z	373/389 (96%)	263 (70%)	73 (20%)	37 (10%)	1	10
4	0	372/439 (85%)	255 (68%)	74 (20%)	43 (12%)	0	7
4	M	372/439 (85%)	255 (68%)	74 (20%)	43 (12%)	0	7

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
5	J	354/406 (87%)	255 (72%)	66 (19%)	33 (9%)	1	11
5	x	354/406 (87%)	255 (72%)	66 (19%)	33 (9%)	1	11
6	K	378/418 (90%)	266 (70%)	70 (18%)	42 (11%)	0	7
6	y	378/418 (90%)	266 (70%)	70 (18%)	42 (11%)	0	7
7	1	811/953 (85%)	607 (75%)	176 (22%)	28 (4%)	4	38
7	N	811/953 (85%)	607 (75%)	176 (22%)	28 (4%)	4	38
8	2	368/376 (98%)	287 (78%)	61 (17%)	20 (5%)	2	25
8	O	368/376 (98%)	287 (78%)	61 (17%)	20 (5%)	2	25
9	3	401/456 (88%)	338 (84%)	51 (13%)	12 (3%)	5	42
9	P	401/456 (88%)	338 (84%)	51 (13%)	12 (3%)	5	42
10	4	419/422 (99%)	331 (79%)	58 (14%)	30 (7%)	1	17
10	Q	419/422 (99%)	330 (79%)	58 (14%)	31 (7%)	1	16
11	5	374/389 (96%)	295 (79%)	54 (14%)	25 (7%)	1	19
11	R	374/389 (96%)	295 (79%)	54 (14%)	25 (7%)	1	19
12	6	413/525 (79%)	354 (86%)	42 (10%)	17 (4%)	3	33
12	S	413/525 (79%)	354 (86%)	42 (10%)	17 (4%)	3	33
13	7	254/350 (73%)	195 (77%)	43 (17%)	16 (6%)	2	21
13	T	254/350 (73%)	195 (77%)	43 (17%)	16 (6%)	2	21
14	8	279/324 (86%)	222 (80%)	42 (15%)	15 (5%)	2	25
14	U	279/324 (86%)	222 (80%)	42 (15%)	15 (5%)	2	25
15	9	253/310 (82%)	209 (83%)	32 (13%)	12 (5%)	3	29
15	V	253/310 (82%)	209 (83%)	32 (13%)	12 (5%)	3	29
16	AA	191/377 (51%)	145 (76%)	35 (18%)	11 (6%)	2	23
16	W	191/377 (51%)	145 (76%)	35 (18%)	11 (6%)	2	23
17	AB	55/70 (79%)	37 (67%)	10 (18%)	8 (14%)	0	4
17	Y	55/70 (79%)	37 (67%)	10 (18%)	8 (14%)	0	4
18	AC	722/908 (80%)	557 (77%)	116 (16%)	49 (7%)	1	19
18	Z	722/908 (80%)	558 (77%)	116 (16%)	48 (7%)	1	19
19	B	242/246 (98%)	230 (95%)	8 (3%)	4 (2%)	11	54
19	h	242/246 (98%)	229 (95%)	13 (5%)	0	100	100
20	C	229/234 (98%)	204 (89%)	23 (10%)	2 (1%)	21	68

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
20	i	229/234 (98%)	206 (90%)	21 (9%)	2 (1%)	21	68
21	D	248/261 (95%)	234 (94%)	13 (5%)	1 (0%)	39	81
21	j	248/261 (95%)	236 (95%)	11 (4%)	1 (0%)	39	81
22	E	241/248 (97%)	221 (92%)	15 (6%)	5 (2%)	9	50
22	k	241/248 (97%)	221 (92%)	15 (6%)	5 (2%)	9	50
23	F	232/241 (96%)	217 (94%)	13 (6%)	2 (1%)	21	68
23	l	232/241 (96%)	214 (92%)	17 (7%)	1 (0%)	39	81
24	G	236/263 (90%)	224 (95%)	9 (4%)	3 (1%)	15	60
24	m	236/263 (90%)	224 (95%)	9 (4%)	3 (1%)	15	60
25	X	241/255 (94%)	234 (97%)	4 (2%)	3 (1%)	16	61
25	n	241/255 (94%)	235 (98%)	4 (2%)	2 (1%)	24	70
26	a	200/239 (84%)	195 (98%)	4 (2%)	1 (0%)	34	78
26	o	200/239 (84%)	195 (98%)	4 (2%)	1 (0%)	34	78
27	b	218/277 (79%)	209 (96%)	8 (4%)	1 (0%)	34	78
27	p	218/277 (79%)	208 (95%)	8 (4%)	2 (1%)	21	68
28	c	202/205 (98%)	191 (95%)	9 (4%)	2 (1%)	19	66
28	q	202/205 (98%)	191 (95%)	9 (4%)	2 (1%)	19	66
29	d	197/201 (98%)	187 (95%)	9 (5%)	1 (0%)	34	78
29	r	197/201 (98%)	187 (95%)	9 (5%)	1 (0%)	34	78
30	e	199/263 (76%)	195 (98%)	4 (2%)	0	100	100
30	s	199/263 (76%)	195 (98%)	4 (2%)	0	100	100
31	f	211/241 (88%)	203 (96%)	8 (4%)	0	100	100
31	t	211/241 (88%)	203 (96%)	8 (4%)	0	100	100
32	g	214/264 (81%)	203 (95%)	10 (5%)	1 (0%)	34	78
32	u	215/264 (81%)	206 (96%)	8 (4%)	1 (0%)	34	78
All	All	19717/22846 (86%)	16137 (82%)	2604 (13%)	976 (5%)	5	27

All (976) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	I	165	ASP
1	I	207	HIS
1	I	220	LYS

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Mol	Chain	Res	Type
1	I	277	HIS
1	I	278	ALA
1	I	292	THR
1	I	297	SER
1	I	321	SER
1	I	356	PRO
1	I	357	ASP
1	I	380	LEU
2	H	108	ASP
2	H	109	PRO
2	H	110	LYS
2	H	115	VAL
2	H	154	PRO
2	H	167	GLU
2	H	234	ASP
2	H	285	PHE
2	H	286	ASP
2	H	307	ASP
2	H	417	ILE
2	H	424	SER
3	L	85	ARG
3	L	88	ASP
3	L	109	ARG
3	L	114	GLU
3	L	139	SER
3	L	194	ASN
3	L	206	LYS
3	L	237	ALA
3	L	324	GLY
3	L	358	ASP
4	M	137	ILE
4	M	140	VAL
4	M	168	TYR
4	M	184	GLN
4	M	218	GLN
4	M	244	THR
4	M	261	ILE
4	M	345	SER
4	M	378	ASP
4	M	413	THR
4	M	415	LEU
4	M	433	ALA

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Mol	Chain	Res	Type
5	J	89	VAL
5	J	90	HIS
5	J	92	GLU
5	J	131	VAL
5	J	149	GLU
5	J	150	MET
5	J	151	ILE
5	J	152	GLY
5	J	229	ARG
5	J	284	GLU
5	J	288	ASN
5	J	310	ARG
5	J	352	PRO
6	K	85	ILE
6	K	97	ASP
6	K	119	ILE
6	K	120	ASP
6	K	122	GLU
6	K	125	LYS
6	K	151	ILE
6	K	152	MET
6	K	155	THR
6	K	162	VAL
6	K	223	THR
6	K	258	ALA
6	K	273	LYS
6	K	274	ARG
6	K	278	GLN
6	K	300	ASP
6	K	336	PRO
6	K	360	LEU
6	K	367	PRO
6	K	393	ILE
6	K	409	LYS
6	K	410	ASP
6	K	411	GLU
6	K	412	GLN
7	N	164	GLU
7	N	170	SER
7	N	701	ILE
7	N	792	ASN
7	N	793	LYS

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Mol	Chain	Res	Type
7	N	881	PRO
7	N	905	PRO
7	N	933	PRO
8	O	146	PRO
8	O	263	ALA
8	O	284	ARG
8	O	285	PRO
8	O	288	HIS
8	O	369	HIS
8	O	371	ALA
9	P	169	LEU
9	P	300	PRO
9	P	409	LEU
10	Q	58	ALA
10	Q	60	THR
10	Q	121	LYS
10	Q	141	LYS
10	Q	201	TYR
10	Q	203	PRO
10	Q	204	PRO
10	Q	277	LEU
10	Q	280	ALA
10	Q	317	PRO
10	Q	391	PRO
10	Q	393	VAL
11	R	28	LEU
11	R	34	ASP
11	R	131	THR
11	R	254	PRO
11	R	268	TYR
11	R	269	SER
11	R	289	ALA
12	S	218	TYR
12	S	279	GLN
12	S	321	ALA
12	S	346	LEU
12	S	351	PRO
12	S	464	ILE
12	S	466	ILE
12	S	505	LEU
12	S	507	SER
13	T	216	PRO

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Mol	Chain	Res	Type
13	T	312	PRO
13	T	319	ALA
13	T	323	GLN
13	T	325	PRO
14	U	117	PRO
14	U	128	PRO
14	U	222	ILE
14	U	240	VAL
14	U	241	SER
15	V	52	GLU
15	V	226	MET
16	W	62	THR
16	W	65	THR
16	W	66	PRO
16	W	67	ASP
16	W	78	VAL
17	Y	38	VAL
17	Y	45	ASP
17	Y	46	ASP
17	Y	48	VAL
18	Z	203	GLU
18	Z	228	LYS
18	Z	256	PHE
18	Z	257	ARG
18	Z	258	LYS
18	Z	272	LEU
18	Z	273	ASN
18	Z	324	VAL
18	Z	404	ASP
18	Z	457	ASN
18	Z	662	MET
18	Z	664	GLU
18	Z	701	ASN
18	Z	705	ASN
18	Z	810	ILE
18	Z	815	HIS
18	Z	837	LEU
18	Z	892	PRO
20	C	40	ALA
20	C	198	PHE
22	E	50	VAL
23	F	120	ALA

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Mol	Chain	Res	Type
25	X	207	LYS
28	c	156	PRO
20	i	40	ALA
22	k	50	VAL
25	n	207	LYS
28	q	156	PRO
2	v	108	ASP
2	v	109	PRO
2	v	110	LYS
2	v	115	VAL
2	v	154	PRO
2	v	167	GLU
2	v	234	ASP
2	v	285	PHE
2	v	286	ASP
2	v	307	ASP
2	v	346	PRO
2	v	417	ILE
2	v	424	SER
1	w	165	ASP
1	w	207	HIS
1	w	220	LYS
1	w	277	HIS
1	w	278	ALA
1	w	292	THR
1	w	297	SER
1	w	321	SER
1	w	356	PRO
1	w	357	ASP
1	w	380	LEU
5	x	89	VAL
5	x	90	HIS
5	x	92	GLU
5	x	131	VAL
5	x	149	GLU
5	x	150	MET
5	x	151	ILE
5	x	152	GLY
5	x	229	ARG
5	x	284	GLU
5	x	288	ASN
5	x	310	ARG

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Mol	Chain	Res	Type
5	x	352	PRO
6	y	85	ILE
6	y	97	ASP
6	y	119	ILE
6	y	120	ASP
6	y	122	GLU
6	y	125	LYS
6	y	151	ILE
6	y	152	MET
6	y	155	THR
6	y	162	VAL
6	y	223	THR
6	y	258	ALA
6	y	273	LYS
6	y	274	ARG
6	y	278	GLN
6	y	300	ASP
6	y	336	PRO
6	y	360	LEU
6	y	367	PRO
6	y	393	ILE
6	y	409	LYS
6	y	410	ASP
6	y	411	GLU
6	y	412	GLN
3	z	85	ARG
3	z	88	ASP
3	z	109	ARG
3	z	114	GLU
3	z	139	SER
3	z	194	ASN
3	z	206	LYS
3	z	237	ALA
3	z	324	GLY
3	z	358	ASP
4	0	137	ILE
4	0	140	VAL
4	0	168	TYR
4	0	184	GLN
4	0	218	GLN
4	0	244	THR
4	0	261	ILE

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Mol	Chain	Res	Type
4	0	345	SER
4	0	378	ASP
4	0	413	THR
4	0	415	LEU
4	0	433	ALA
7	1	164	GLU
7	1	170	SER
7	1	701	ILE
7	1	792	ASN
7	1	793	LYS
7	1	881	PRO
7	1	905	PRO
7	1	933	PRO
8	2	146	PRO
8	2	263	ALA
8	2	284	ARG
8	2	285	PRO
8	2	288	HIS
8	2	369	HIS
8	2	371	ALA
9	3	169	LEU
9	3	300	PRO
9	3	409	LEU
10	4	58	ALA
10	4	121	LYS
10	4	141	LYS
10	4	201	TYR
10	4	203	PRO
10	4	204	PRO
10	4	277	LEU
10	4	280	ALA
10	4	317	PRO
10	4	391	PRO
10	4	393	VAL
11	5	28	LEU
11	5	34	ASP
11	5	131	THR
11	5	254	PRO
11	5	268	TYR
11	5	269	SER
11	5	289	ALA
12	6	218	TYR

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Mol	Chain	Res	Type
12	6	279	GLN
12	6	321	ALA
12	6	346	LEU
12	6	351	PRO
12	6	464	ILE
12	6	505	LEU
12	6	507	SER
13	7	216	PRO
13	7	312	PRO
13	7	319	ALA
13	7	323	GLN
13	7	325	PRO
14	8	117	PRO
14	8	128	PRO
14	8	222	ILE
14	8	240	VAL
14	8	241	SER
15	9	52	GLU
15	9	226	MET
16	AA	62	THR
16	AA	65	THR
16	AA	66	PRO
16	AA	67	ASP
16	AA	78	VAL
17	AB	38	VAL
17	AB	45	ASP
17	AB	46	ASP
17	AB	48	VAL
18	AC	203	GLU
18	AC	228	LYS
18	AC	256	PHE
18	AC	257	ARG
18	AC	258	LYS
18	AC	272	LEU
18	AC	273	ASN
18	AC	324	VAL
18	AC	404	ASP
18	AC	457	ASN
18	AC	662	MET
18	AC	664	GLU
18	AC	701	ASN
18	AC	705	ASN

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Mol	Chain	Res	Type
18	AC	810	ILE
18	AC	815	HIS
18	AC	837	LEU
18	AC	892	PRO
1	I	119	ASN
1	I	167	THR
1	I	296	ASP
1	I	300	GLY
2	H	103	ASN
2	H	133	ASP
2	H	166	VAL
2	H	205	GLY
2	H	206	ILE
2	H	235	ALA
2	H	292	ASP
2	H	378	PRO
2	H	399	ALA
3	L	131	SER
3	L	208	ILE
3	L	244	SER
3	L	254	GLN
3	L	357	ALA
4	M	85	THR
4	M	165	PRO
4	M	216	GLY
4	M	217	ILE
4	M	222	GLY
4	M	287	GLU
4	M	300	LYS
4	M	371	ARG
4	M	372	LYS
4	M	392	ASN
4	M	409	ARG
4	M	411	GLY
4	M	432	LYS
5	J	84	LYS
5	J	148	TYR
5	J	287	LYS
6	K	126	PRO
6	K	156	SER
6	K	299	PHE
6	K	303	VAL

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Mol	Chain	Res	Type
6	K	304	ASN
6	K	368	ASP
6	K	391	ARG
7	N	120	GLU
7	N	174	PRO
7	N	175	GLY
7	N	427	LEU
7	N	776	SER
7	N	908	ILE
8	O	104	VAL
8	O	107	SER
8	O	109	GLU
8	O	148	VAL
8	O	150	SER
8	O	287	ASN
9	P	56	THR
9	P	316	ARG
10	Q	37	GLU
10	Q	242	ILE
10	Q	321	THR
10	Q	392	PRO
11	R	31	HIS
11	R	32	ARG
11	R	37	VAL
11	R	49	ASN
11	R	133	ALA
12	S	319	HIS
12	S	506	GLU
13	T	238	GLU
13	T	239	GLY
13	T	318	PHE
13	T	324	LYS
14	U	99	PRO
14	U	101	LEU
14	U	176	LEU
14	U	186	THR
14	U	218	GLY
14	U	224	HIS
15	V	53	VAL
15	V	153	GLY
17	Y	18	GLU
17	Y	40	GLU

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Mol	Chain	Res	Type
18	Z	365	VAL
18	Z	455	VAL
18	Z	514	VAL
18	Z	599	ALA
18	Z	600	TYR
18	Z	663	GLY
22	E	101	PRO
24	G	238	GLU
25	X	4	GLY
27	b	188	PRO
28	c	117	PHE
22	k	46	GLU
22	k	101	PRO
24	m	197	GLU
28	q	117	PHE
2	v	93	LEU
2	v	103	ASN
2	v	133	ASP
2	v	166	VAL
2	v	205	GLY
2	v	206	ILE
2	v	235	ALA
2	v	292	ASP
2	v	345	LEU
2	v	378	PRO
2	v	399	ALA
1	w	119	ASN
1	w	167	THR
1	w	296	ASP
1	w	300	GLY
1	w	408	ARG
1	w	409	GLU
5	x	84	LYS
5	x	148	TYR
5	x	287	LYS
6	y	126	PRO
6	y	156	SER
6	y	299	PHE
6	y	303	VAL
6	y	304	ASN
6	y	368	ASP
6	y	391	ARG

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Mol	Chain	Res	Type
3	z	131	SER
3	z	208	ILE
3	z	244	SER
3	z	254	GLN
3	z	357	ALA
4	0	85	THR
4	0	165	PRO
4	0	216	GLY
4	0	217	ILE
4	0	222	GLY
4	0	287	GLU
4	0	300	LYS
4	0	371	ARG
4	0	372	LYS
4	0	392	ASN
4	0	409	ARG
4	0	411	GLY
4	0	432	LYS
7	1	120	GLU
7	1	174	PRO
7	1	175	GLY
7	1	427	LEU
7	1	776	SER
7	1	908	ILE
8	2	104	VAL
8	2	107	SER
8	2	109	GLU
8	2	148	VAL
8	2	150	SER
8	2	287	ASN
9	3	56	THR
9	3	316	ARG
10	4	37	GLU
10	4	60	THR
10	4	242	ILE
10	4	321	THR
10	4	392	PRO
11	5	31	HIS
11	5	32	ARG
11	5	37	VAL
11	5	49	ASN
11	5	133	ALA

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Mol	Chain	Res	Type
12	6	319	HIS
12	6	466	ILE
12	6	506	GLU
13	7	238	GLU
13	7	239	GLY
13	7	318	PHE
13	7	324	LYS
14	8	99	PRO
14	8	101	LEU
14	8	176	LEU
14	8	186	THR
14	8	218	GLY
14	8	224	HIS
15	9	53	VAL
15	9	153	GLY
17	AB	18	GLU
17	AB	40	GLU
18	AC	365	VAL
18	AC	455	VAL
18	AC	514	VAL
18	AC	599	ALA
18	AC	600	TYR
18	AC	663	GLY
18	AC	666	ILE
1	I	103	ARG
1	I	106	PRO
1	I	172	THR
1	I	191	ASP
1	I	217	LYS
1	I	410	ARG
1	I	427	LEU
2	H	116	LYS
2	H	139	ARG
2	H	197	HIS
2	H	209	PRO
2	H	310	ASP
2	H	346	PRO
3	L	138	LEU
3	L	192	ASP
3	L	193	CYS
3	L	241	ARG
3	L	247	THR

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Mol	Chain	Res	Type
3	L	339	ASN
4	M	122	ALA
4	M	180	ARG
4	M	280	PRO
4	M	296	PHE
4	M	344	ARG
4	M	347	ARG
4	M	373	MET
4	M	377	PRO
4	M	379	VAL
4	M	410	ARG
5	J	27	LYS
5	J	37	ASP
5	J	78	ARG
5	J	133	PRO
5	J	228	ALA
5	J	308	PRO
5	J	312	ASP
6	K	121	ARG
6	K	320	ALA
6	K	390	ASN
6	K	407	ILE
7	N	119	PRO
7	N	163	PHE
7	N	771	PHE
7	N	884	VAL
7	N	907	SER
8	O	258	GLN
8	O	259	PRO
9	P	76	GLU
10	Q	17	SER
10	Q	38	ASN
10	Q	59	LYS
10	Q	123	THR
10	Q	202	CYS
10	Q	245	PRO
10	Q	320	SER
11	R	51	ALA
12	S	503	LYS
13	T	237	MET
14	U	33	LYS
15	V	104	ARG

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Mol	Chain	Res	Type
15	V	150	SER
16	W	77	THR
17	Y	39	TRP
18	Z	227	ALA
18	Z	397	LYS
18	Z	420	TRP
18	Z	458	GLU
18	Z	472	HIS
18	Z	598	CYS
18	Z	738	ASN
18	Z	739	ALA
18	Z	811	LEU
19	B	188	ASP
19	B	189	TRP
19	B	210	PHE
22	E	46	GLU
22	E	201	SER
24	G	226	ASP
24	G	235	GLY
32	g	46	ASN
20	i	202	MET
22	k	201	SER
23	l	120	ALA
24	m	235	GLY
27	p	187	ARG
32	u	46	ASN
2	v	116	LYS
2	v	139	ARG
2	v	197	HIS
2	v	209	PRO
2	v	310	ASP
1	w	103	ARG
1	w	106	PRO
1	w	172	THR
1	w	191	ASP
1	w	217	LYS
1	w	427	LEU
5	x	27	LYS
5	x	37	ASP
5	x	78	ARG
5	x	133	PRO
5	x	228	ALA

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Mol	Chain	Res	Type
5	x	308	PRO
5	x	312	ASP
6	y	121	ARG
6	y	320	ALA
6	y	390	ASN
6	y	407	ILE
3	z	138	LEU
3	z	192	ASP
3	z	193	CYS
3	z	241	ARG
3	z	247	THR
3	z	339	ASN
4	0	122	ALA
4	0	180	ARG
4	0	280	PRO
4	0	296	PHE
4	0	344	ARG
4	0	347	ARG
4	0	373	MET
4	0	377	PRO
4	0	379	VAL
4	0	410	ARG
7	1	119	PRO
7	1	163	PHE
7	1	771	PHE
7	1	884	VAL
7	1	907	SER
8	2	258	GLN
8	2	259	PRO
9	3	76	GLU
10	4	17	SER
10	4	38	ASN
10	4	123	THR
10	4	202	CYS
10	4	245	PRO
10	4	320	SER
11	5	51	ALA
12	6	503	LYS
13	7	237	MET
14	8	33	LYS
15	9	104	ARG
15	9	150	SER

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Mol	Chain	Res	Type
16	AA	77	THR
17	AB	39	TRP
18	AC	227	ALA
18	AC	397	LYS
18	AC	420	TRP
18	AC	458	GLU
18	AC	472	HIS
18	AC	598	CYS
18	AC	738	ASN
18	AC	739	ALA
18	AC	811	LEU
1	I	182	GLU
2	H	134	ILE
2	H	172	VAL
2	H	192	GLU
2	H	425	ALA
3	L	130	VAL
3	L	152	PRO
3	L	234	GLU
3	L	366	ASP
3	L	383	LYS
4	M	321	GLN
5	J	66	LEU
5	J	69	GLN
5	J	283	PHE
6	K	266	GLU
7	N	470	ASN
7	N	912	ILE
7	N	927	PRO
8	O	108	ASP
9	P	79	GLU
9	P	385	SER
9	P	418	PRO
9	P	421	PRO
10	Q	81	SER
11	R	30	GLU
11	R	156	LEU
11	R	255	ALA
12	S	221	LEU
12	S	300	LEU
12	S	350	GLN
13	T	125	GLU

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Mol	Chain	Res	Type
13	T	179	LYS
13	T	219	ASP
13	T	326	GLU
15	V	49	VAL
15	V	263	ASP
16	W	64	LEU
18	Z	202	HIS
18	Z	262	PHE
18	Z	475	ASN
18	Z	597	VAL
18	Z	716	ASP
18	Z	842	VAL
19	B	207	SER
21	D	206	LEU
21	j	206	LEU
24	m	238	GLU
27	p	188	PRO
2	v	134	ILE
2	v	172	VAL
2	v	192	GLU
2	v	425	ALA
1	w	182	GLU
5	x	66	LEU
5	x	69	GLN
5	x	283	PHE
6	y	266	GLU
3	z	130	VAL
3	z	152	PRO
3	z	234	GLU
3	z	366	ASP
3	z	383	LYS
4	0	321	GLN
7	1	470	ASN
7	1	912	ILE
7	1	927	PRO
8	2	108	ASP
9	3	79	GLU
9	3	385	SER
9	3	418	PRO
9	3	421	PRO
10	4	81	SER
11	5	30	GLU

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Mol	Chain	Res	Type
11	5	156	LEU
11	5	255	ALA
12	6	221	LEU
12	6	300	LEU
12	6	350	GLN
13	7	125	GLU
13	7	179	LYS
13	7	219	ASP
13	7	326	GLU
15	9	49	VAL
15	9	263	ASP
16	AA	64	LEU
18	AC	202	HIS
18	AC	262	PHE
18	AC	475	ASN
18	AC	597	VAL
18	AC	716	ASP
18	AC	842	VAL
1	I	299	SER
2	H	85	GLN
2	H	96	ALA
2	H	198	PRO
2	H	309	PHE
3	L	266	GLY
3	L	296	ASP
4	M	77	SER
4	M	148	GLY
4	M	376	SER
5	J	142	LYS
5	J	297	ARG
6	K	257	ASN
7	N	904	LYS
7	N	928	VAL
8	O	228	THR
10	Q	6	VAL
10	Q	224	ASP
10	Q	340	GLU
11	R	152	MET
11	R	153	ASP
11	R	154	ASN
11	R	198	ALA
11	R	253	LEU

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Mol	Chain	Res	Type
13	T	328	THR
14	U	179	ILE
16	W	164	ASP
16	W	177	PRO
17	Y	15	GLU
18	Z	114	ALA
18	Z	322	SER
18	Z	602	GLY
22	E	243	LYS
2	v	85	GLN
2	v	96	ALA
2	v	198	PRO
2	v	309	PHE
1	w	299	SER
5	x	142	LYS
5	x	297	ARG
6	y	257	ASN
3	z	266	GLY
3	z	296	ASP
4	0	77	SER
4	0	148	GLY
4	0	376	SER
7	1	904	LYS
7	1	928	VAL
8	2	228	THR
10	4	6	VAL
10	4	224	ASP
10	4	340	GLU
11	5	152	MET
11	5	153	ASP
11	5	154	ASN
11	5	198	ALA
11	5	253	LEU
13	7	328	THR
14	8	179	ILE
16	AA	164	ASP
16	AA	177	PRO
17	AB	15	GLU
18	AC	114	ALA
18	AC	602	GLY
18	AC	661	ALA
1	I	408	ARG

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Mol	Chain	Res	Type
3	L	116	ASP
3	L	319	PRO
3	L	337	GLY
6	K	86	PRO
6	K	197	ASP
6	K	208	PRO
7	N	84	ALA
8	O	340	VAL
10	Q	244	SER
10	Q	341	PRO
11	R	53	TYR
12	S	182	LYS
14	U	119	SER
15	V	232	GLN
18	Z	263	PRO
18	Z	380	PHE
18	Z	559	PRO
22	k	243	LYS
6	y	86	PRO
6	y	197	ASP
6	y	208	PRO
3	z	116	ASP
3	z	319	PRO
3	z	337	GLY
7	1	84	ALA
8	2	340	VAL
10	4	244	SER
10	4	341	PRO
11	5	53	TYR
12	6	182	LYS
14	8	119	SER
15	9	232	GLN
18	AC	263	PRO
18	AC	380	PHE
18	AC	559	PRO
3	L	128	GLY
4	M	181	PRO
4	M	335	VAL
5	J	144	PRO
5	J	320	PRO
12	S	70	VAL
13	T	330	ILE

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Mol	Chain	Res	Type
16	W	22	LEU
18	Z	604	GLY
29	r	197	PRO
5	x	144	PRO
5	x	320	PRO
3	z	128	GLY
4	0	181	PRO
4	0	335	VAL
12	6	70	VAL
13	7	330	ILE
16	AA	22	LEU
18	AC	604	GLY
3	L	126	ASP
5	J	192	PRO
6	K	207	PRO
8	O	18	GLN
9	P	171	VAL
10	Q	361	VAL
14	U	185	GLY
16	W	117	VAL
29	d	197	PRO
1	w	414	VAL
5	x	192	PRO
6	y	207	PRO
3	z	126	ASP
8	2	18	GLN
9	3	171	VAL
10	4	361	VAL
14	8	185	GLY
16	AA	117	VAL
1	I	301	GLY
2	H	159	PRO
2	H	333	ARG
3	L	115	VAL
3	L	240	GLY
4	M	262	GLY
7	N	913	ILE
8	O	185	ILE
10	Q	50	ILE
11	R	65	ILE
11	R	67	VAL
26	a	30	VAL

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Mol	Chain	Res	Type
25	n	216	VAL
26	o	30	VAL
2	v	159	PRO
2	v	333	ARG
1	w	301	GLY
3	z	115	VAL
3	z	240	GLY
4	0	262	GLY
7	1	913	ILE
8	2	185	ILE
10	4	50	ILE
11	5	65	ILE
11	5	67	VAL
1	I	287	ILE
1	I	343	ARG
5	J	182	GLN
6	K	194	ILE
7	N	507	VAL
15	V	50	PRO
15	V	267	PRO
18	Z	702	PRO
18	Z	872	VAL
23	F	158	PRO
25	X	216	VAL
1	w	287	ILE
1	w	343	ARG
5	x	182	GLN
6	y	194	ILE
7	1	507	VAL
15	9	50	PRO
15	9	267	PRO
18	AC	702	PRO
18	AC	872	VAL
3	L	292	PRO
3	L	363	VAL
4	M	188	ILE
5	J	132	ASP
7	N	124	LYS
9	P	200	ILE
11	R	277	VAL
15	V	308	VAL
5	x	132	ASP

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Mol	Chain	Res	Type
3	z	292	PRO
3	z	363	VAL
4	0	188	ILE
7	1	124	LYS
9	3	200	ILE
11	5	277	VAL
15	9	308	VAL

5.3.2 Protein sidechains ⓘ

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	I	291/385 (76%)	229 (79%)	62 (21%)	1	7
1	w	291/385 (76%)	227 (78%)	64 (22%)	1	7
2	H	298/372 (80%)	232 (78%)	66 (22%)	1	6
2	v	297/372 (80%)	232 (78%)	65 (22%)	1	7
3	L	298/341 (87%)	233 (78%)	65 (22%)	1	7
3	z	298/341 (87%)	233 (78%)	65 (22%)	1	7
4	0	296/379 (78%)	240 (81%)	56 (19%)	2	10
4	M	296/379 (78%)	240 (81%)	56 (19%)	2	10
5	J	310/352 (88%)	244 (79%)	66 (21%)	1	7
5	x	310/352 (88%)	244 (79%)	66 (21%)	1	7
6	K	333/366 (91%)	272 (82%)	61 (18%)	2	12
6	y	333/366 (91%)	270 (81%)	63 (19%)	2	10
7	1	376/816 (46%)	344 (92%)	32 (8%)	13	49
7	N	376/816 (46%)	344 (92%)	32 (8%)	13	49
8	2	142/336 (42%)	124 (87%)	18 (13%)	5	28
8	O	141/336 (42%)	123 (87%)	18 (13%)	5	28
9	3	201/416 (48%)	181 (90%)	20 (10%)	9	41
9	P	202/416 (49%)	181 (90%)	21 (10%)	9	39

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
10	4	250/362 (69%)	210 (84%)	40 (16%)	3	18
10	Q	249/362 (69%)	209 (84%)	40 (16%)	3	18
11	5	229/344 (67%)	202 (88%)	27 (12%)	6	31
11	R	228/344 (66%)	202 (89%)	26 (11%)	7	33
12	6	164/452 (36%)	153 (93%)	11 (7%)	20	61
12	S	163/452 (36%)	152 (93%)	11 (7%)	20	61
13	7	108/294 (37%)	91 (84%)	17 (16%)	3	19
13	T	109/294 (37%)	92 (84%)	17 (16%)	3	20
14	8	211/295 (72%)	186 (88%)	25 (12%)	6	31
14	U	212/295 (72%)	186 (88%)	26 (12%)	6	29
15	9	218/268 (81%)	187 (86%)	31 (14%)	4	24
15	V	219/268 (82%)	188 (86%)	31 (14%)	4	24
16	AA	111/312 (36%)	104 (94%)	7 (6%)	22	63
16	W	111/312 (36%)	103 (93%)	8 (7%)	18	57
17	AB	6/63 (10%)	6 (100%)	0	100	100
17	Y	6/63 (10%)	6 (100%)	0	100	100
19	B	193/210 (92%)	180 (93%)	13 (7%)	20	61
19	h	195/210 (93%)	182 (93%)	13 (7%)	20	61
20	C	175/191 (92%)	170 (97%)	5 (3%)	50	81
20	i	177/191 (93%)	164 (93%)	13 (7%)	17	57
21	D	194/221 (88%)	186 (96%)	8 (4%)	37	74
21	j	193/221 (87%)	186 (96%)	7 (4%)	42	77
22	E	152/211 (72%)	140 (92%)	12 (8%)	15	53
22	k	142/211 (67%)	132 (93%)	10 (7%)	19	59
23	F	190/203 (94%)	186 (98%)	4 (2%)	61	86
23	l	191/203 (94%)	184 (96%)	7 (4%)	41	76
24	G	198/224 (88%)	192 (97%)	6 (3%)	48	81
24	m	198/224 (88%)	188 (95%)	10 (5%)	29	69
25	X	193/212 (91%)	187 (97%)	6 (3%)	47	81
25	n	193/212 (91%)	184 (95%)	9 (5%)	32	72
26	a	155/181 (86%)	151 (97%)	4 (3%)	54	83

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
26	o	155/181 (86%)	152 (98%)	3 (2%)	65	87
27	b	177/228 (78%)	171 (97%)	6 (3%)	44	79
27	p	177/228 (78%)	172 (97%)	5 (3%)	51	82
28	c	172/174 (99%)	164 (95%)	8 (5%)	32	72
28	q	172/174 (99%)	164 (95%)	8 (5%)	32	72
29	d	164/171 (96%)	159 (97%)	5 (3%)	48	81
29	r	164/171 (96%)	160 (98%)	4 (2%)	57	85
30	e	153/202 (76%)	149 (97%)	4 (3%)	54	83
30	s	154/202 (76%)	149 (97%)	5 (3%)	46	80
31	f	175/199 (88%)	167 (95%)	8 (5%)	33	72
31	t	175/199 (88%)	169 (97%)	6 (3%)	44	79
32	g	175/215 (81%)	167 (95%)	8 (5%)	33	72
32	u	175/215 (81%)	165 (94%)	10 (6%)	25	66
All	All	12610/17990 (70%)	11190 (89%)	1420 (11%)	12	34

All (1420) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	I	103	ARG
1	I	105	THR
1	I	113	GLU
1	I	118	ASP
1	I	120	HIS
1	I	126	SER
1	I	129	SER
1	I	141	LYS
1	I	156	VAL
1	I	162	VAL
1	I	164	MET
1	I	167	THR
1	I	178	LYS
1	I	182	GLU
1	I	183	THR
1	I	193	GLN
1	I	195	GLN
1	I	207	HIS
1	I	210	TYR

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Mol	Chain	Res	Type
1	I	220	LYS
1	I	235	LEU
1	I	237	LYS
1	I	242	GLN
1	I	255	LEU
1	I	257	GLN
1	I	258	LYS
1	I	259	TYR
1	I	260	LEU
1	I	262	ASP
1	I	272	ARG
1	I	275	GLU
1	I	286	GLU
1	I	287	ILE
1	I	293	LYS
1	I	294	ARG
1	I	296	ASP
1	I	299	SER
1	I	302	GLU
1	I	303	ARG
1	I	313	LEU
1	I	315	GLN
1	I	319	PHE
1	I	321	SER
1	I	322	ARG
1	I	324	ASP
1	I	329	MET
1	I	331	THR
1	I	333	ARG
1	I	337	LEU
1	I	342	ILE
1	I	344	PRO
1	I	346	ARG
1	I	348	ASP
1	I	350	LYS
1	I	365	PHE
1	I	366	GLN
1	I	373	THR
1	I	385	MET
1	I	388	ASP
1	I	399	CYS
1	I	408	ARG

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Mol	Chain	Res	Type
1	I	410	ARG
2	H	93	LEU
2	H	103	ASN
2	H	110	LYS
2	H	111	TYR
2	H	114	ASN
2	H	125	LEU
2	H	135	GLU
2	H	148	GLN
2	H	150	HIS
2	H	153	LEU
2	H	164	MET
2	H	166	VAL
2	H	168	GLU
2	H	180	CYS
2	H	183	GLN
2	H	187	LEU
2	H	188	ARG
2	H	199	GLU
2	H	200	ARG
2	H	203	ASN
2	H	204	LEU
2	H	213	LEU
2	H	220	THR
2	H	234	ASP
2	H	239	ARG
2	H	247	GLN
2	H	265	ARG
2	H	267	LYS
2	H	276	GLU
2	H	277	ILE
2	H	278	ASP
2	H	284	ARG
2	H	285	PHE
2	H	287	ASP
2	H	294	GLU
2	H	299	MET
2	H	307	ASP
2	H	309	PHE
2	H	312	ARG
2	H	315	ILE
2	H	319	MET

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Mol	Chain	Res	Type
2	H	322	ASN
2	H	327	LEU
2	H	329	PRO
2	H	332	MET
2	H	334	PRO
2	H	338	ASP
2	H	340	LYS
2	H	342	GLU
2	H	353	HIS
2	H	355	PHE
2	H	358	HIS
2	H	369	ARG
2	H	377	CYS
2	H	379	ASN
2	H	398	ARG
2	H	400	ARG
2	H	401	ARG
2	H	403	ILE
2	H	415	LYS
2	H	419	SER
2	H	422	LYS
2	H	423	PHE
2	H	424	SER
2	H	430	MET
2	H	431	THR
3	L	86	GLN
3	L	87	LEU
3	L	96	THR
3	L	97	ARG
3	L	105	LEU
3	L	108	MET
3	L	109	ARG
3	L	113	ARG
3	L	114	GLU
3	L	116	ASP
3	L	118	LEU
3	L	120	TYR
3	L	122	MET
3	L	123	SER
3	L	129	ASN
3	L	132	TYR
3	L	134	GLU

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Mol	Chain	Res	Type
3	L	138	LEU
3	L	153	LEU
3	L	158	LEU
3	L	159	PHE
3	L	183	LEU
3	L	193	CYS
3	L	196	LEU
3	L	197	LYS
3	L	200	SER
3	L	202	SER
3	L	206	LYS
3	L	216	ARG
3	L	225	HIS
3	L	226	GLN
3	L	234	GLU
3	L	235	ILE
3	L	238	ILE
3	L	241	ARG
3	L	242	ARG
3	L	244	SER
3	L	245	GLU
3	L	247	THR
3	L	251	ARG
3	L	254	GLN
3	L	255	ARG
3	L	257	LEU
3	L	260	LEU
3	L	261	LEU
3	L	267	PHE
3	L	268	ASP
3	L	271	HIS
3	L	272	ARG
3	L	281	ARG
3	L	283	ASP
3	L	307	GLN
3	L	322	LYS
3	L	334	LEU
3	L	344	ARG
3	L	356	ARG
3	L	358	ASP
3	L	361	PHE
3	L	363	VAL

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Mol	Chain	Res	Type
3	L	364	GLN
3	L	367	PHE
3	L	368	MET
3	L	372	ARG
3	L	383	LYS
3	L	385	ASP
4	M	88	TYR
4	M	89	LEU
4	M	95	GLU
4	M	96	LEU
4	M	125	LYS
4	M	134	LEU
4	M	149	ASP
4	M	163	THR
4	M	166	THR
4	M	168	TYR
4	M	170	SER
4	M	178	ASP
4	M	182	THR
4	M	183	GLU
4	M	187	ASP
4	M	206	MET
4	M	209	LYS
4	M	221	LYS
4	M	225	MET
4	M	231	THR
4	M	233	LYS
4	M	250	LYS
4	M	266	LYS
4	M	272	PHE
4	M	284	PHE
4	M	289	ASP
4	M	295	ARG
4	M	296	PHE
4	M	299	GLU
4	M	304	ARG
4	M	305	GLU
4	M	307	GLN
4	M	310	MET
4	M	318	ASP
4	M	320	PHE
4	M	323	ASN

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Mol	Chain	Res	Type
4	M	327	LYS
4	M	334	ARG
4	M	338	LEU
4	M	339	ASP
4	M	344	ARG
4	M	348	LEU
4	M	351	LYS
4	M	364	ARG
4	M	366	MET
4	M	367	GLN
4	M	369	HIS
4	M	372	LYS
4	M	378	ASP
4	M	388	THR
4	M	409	ARG
4	M	415	LEU
4	M	416	THR
4	M	425	LEU
4	M	430	LYS
4	M	435	LEU
5	J	25	LEU
5	J	33	LEU
5	J	38	LYS
5	J	39	SER
5	J	43	ARG
5	J	46	GLN
5	J	49	ARG
5	J	51	GLU
5	J	57	ARG
5	J	60	ARG
5	J	61	GLU
5	J	69	GLN
5	J	71	SER
5	J	78	ARG
5	J	80	MET
5	J	82	LYS
5	J	84	LYS
5	J	85	VAL
5	J	111	ASN
5	J	113	ARG
5	J	118	ASN
5	J	130	LYS

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Mol	Chain	Res	Type
5	J	132	ASP
5	J	139	MET
5	J	142	LYS
5	J	143	VAL
5	J	147	THR
5	J	149	GLU
5	J	155	ASP
5	J	157	GLN
5	J	173	GLU
5	J	174	LEU
5	J	184	LYS
5	J	194	THR
5	J	198	LEU
5	J	199	LEU
5	J	201	ARG
5	J	207	THR
5	J	210	THR
5	J	213	ARG
5	J	217	SER
5	J	226	GLU
5	J	229	ARG
5	J	230	MET
5	J	249	ASP
5	J	270	GLN
5	J	271	ARG
5	J	273	MET
5	J	275	GLU
5	J	279	GLN
5	J	280	LEU
5	J	283	PHE
5	J	284	GLU
5	J	286	THR
5	J	287	LYS
5	J	290	LYS
5	J	293	MET
5	J	303	SER
5	J	305	LEU
5	J	307	ARG
5	J	308	PRO
5	J	313	ARG
5	J	316	GLU
5	J	340	ARG

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Mol	Chain	Res	Type
5	J	374	ARG
5	J	392	GLN
6	K	40	LEU
6	K	51	LEU
6	K	53	PHE
6	K	54	LEU
6	K	58	GLU
6	K	65	GLN
6	K	72	PHE
6	K	73	LEU
6	K	82	ILE
6	K	87	LEU
6	K	93	LEU
6	K	94	GLU
6	K	98	GLN
6	K	121	ARG
6	K	125	LYS
6	K	139	LEU
6	K	143	LEU
6	K	148	ASP
6	K	152	MET
6	K	154	LEU
6	K	159	LYS
6	K	163	MET
6	K	164	TYR
6	K	171	ASP
6	K	185	LEU
6	K	188	PHE
6	K	193	GLN
6	K	202	VAL
6	K	203	LEU
6	K	205	TYR
6	K	212	LYS
6	K	229	ARG
6	K	233	SER
6	K	237	GLN
6	K	238	LYS
6	K	240	LEU
6	K	245	ARG
6	K	266	GLU
6	K	274	ARG
6	K	278	GLN

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Mol	Chain	Res	Type
6	K	284	GLU
6	K	287	ARG
6	K	297	ASP
6	K	302	ASN
6	K	312	ASN
6	K	322	LEU
6	K	323	ARG
6	K	328	ASP
6	K	330	LYS
6	K	335	LEU
6	K	345	PHE
6	K	351	LYS
6	K	352	MET
6	K	359	ASP
6	K	369	LYS
6	K	384	MET
6	K	388	ARG
6	K	391	ARG
6	K	403	TYR
6	K	405	THR
6	K	418	LYS
7	N	17	PRO
7	N	119	PRO
7	N	125	PRO
7	N	165	LYS
7	N	168	LEU
7	N	170	SER
7	N	174	PRO
7	N	179	TYR
7	N	211	PRO
7	N	363	SER
7	N	402	PHE
7	N	407	SER
7	N	425	THR
7	N	431	THR
7	N	433	PRO
7	N	444	TYR
7	N	469	SER
7	N	471	ASP
7	N	473	VAL
7	N	576	PRO
7	N	601	ARG

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Mol	Chain	Res	Type
7	N	630	PRO
7	N	650	TYR
7	N	758	PRO
7	N	794	ASP
7	N	808	PRO
7	N	816	PRO
7	N	881	PRO
7	N	895	PRO
7	N	905	PRO
7	N	928	VAL
7	N	933	PRO
8	O	5	PRO
8	O	19	PRO
8	O	73	PRO
8	O	90	PRO
8	O	146	PRO
8	O	189	PRO
8	O	274	LEU
8	O	279	GLU
8	O	303	THR
8	O	339	ARG
8	O	349	MET
8	O	353	LEU
8	O	354	GLU
8	O	358	THR
8	O	362	SER
8	O	363	MET
8	O	364	GLU
8	O	368	GLU
9	P	48	LEU
9	P	49	SER
9	P	52	LYS
9	P	55	ARG
9	P	70	VAL
9	P	119	PRO
9	P	159	VAL
9	P	254	PRO
9	P	300	PRO
9	P	317	TRP
9	P	318	SER
9	P	351	TRP
9	P	373	ILE

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Mol	Chain	Res	Type
9	P	383	ASP
9	P	398	VAL
9	P	401	THR
9	P	422	ASN
9	P	436	MET
9	P	441	LYS
9	P	448	LYS
9	P	451	MET
10	Q	82	LYS
10	Q	111	LEU
10	Q	125	LEU
10	Q	126	ARG
10	Q	145	GLU
10	Q	154	LEU
10	Q	155	ARG
10	Q	158	LYS
10	Q	166	LEU
10	Q	168	GLU
10	Q	171	LEU
10	Q	177	TYR
10	Q	185	LYS
10	Q	187	ARG
10	Q	191	THR
10	Q	207	GLN
10	Q	221	GLU
10	Q	222	GLU
10	Q	223	LYS
10	Q	230	SER
10	Q	233	TYR
10	Q	241	SER
10	Q	242	ILE
10	Q	244	SER
10	Q	249	THR
10	Q	264	PRO
10	Q	283	GLN
10	Q	296	ASN
10	Q	316	ASP
10	Q	317	PRO
10	Q	321	THR
10	Q	325	LYS
10	Q	326	LEU
10	Q	337	ARG

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Mol	Chain	Res	Type
10	Q	392	PRO
10	Q	393	VAL
10	Q	403	THR
10	Q	409	LYS
10	Q	416	ASN
10	Q	417	LYS
11	R	23	ARG
11	R	92	GLU
11	R	134	LEU
11	R	173	ASP
11	R	179	ARG
11	R	196	GLN
11	R	202	LEU
11	R	203	ASP
11	R	207	THR
11	R	212	GLU
11	R	214	MET
11	R	238	GLU
11	R	250	LEU
11	R	254	PRO
11	R	259	TYR
11	R	260	LEU
11	R	270	VAL
11	R	292	TYR
11	R	302	HIS
11	R	304	TYR
11	R	337	PHE
11	R	366	TYR
11	R	367	GLN
11	R	371	LYS
11	R	372	LYS
11	R	379	ARG
12	S	300	LEU
12	S	307	ARG
12	S	320	THR
12	S	351	PRO
12	S	352	SER
12	S	431	PRO
12	S	467	TYR
12	S	469	THR
12	S	477	HIS
12	S	479	ARG

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Mol	Chain	Res	Type
12	S	482	PHE
13	T	107	PRO
13	T	110	SER
13	T	130	PRO
13	T	137	THR
13	T	162	PRO
13	T	173	CYS
13	T	182	LEU
13	T	183	PRO
13	T	216	PRO
13	T	218	LYS
13	T	237	MET
13	T	296	PRO
13	T	309	VAL
13	T	312	PRO
13	T	333	THR
13	T	337	LYS
13	T	342	TYR
14	U	23	PHE
14	U	33	LYS
14	U	58	PHE
14	U	70	LEU
14	U	79	TYR
14	U	88	ARG
14	U	101	LEU
14	U	116	CYS
14	U	128	PRO
14	U	157	HIS
14	U	159	THR
14	U	166	GLU
14	U	173	GLU
14	U	175	LEU
14	U	176	LEU
14	U	177	ARG
14	U	184	VAL
14	U	196	HIS
14	U	209	ARG
14	U	245	PHE
14	U	249	PHE
14	U	252	LYS
14	U	267	ARG
14	U	273	HIS

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Mol	Chain	Res	Type
14	U	279	LYS
14	U	282	ASN
15	V	46	ARG
15	V	50	PRO
15	V	96	LEU
15	V	98	MET
15	V	104	ARG
15	V	105	PRO
15	V	118	PHE
15	V	139	ARG
15	V	150	SER
15	V	208	ARG
15	V	212	LEU
15	V	226	MET
15	V	227	GLU
15	V	229	LEU
15	V	236	GLU
15	V	237	HIS
15	V	240	HIS
15	V	248	MET
15	V	254	ASN
15	V	261	GLU
15	V	262	GLU
15	V	264	LYS
15	V	265	MET
15	V	277	LYS
15	V	281	LYS
15	V	282	ARG
15	V	285	GLU
15	V	287	HIS
15	V	295	ASN
15	V	298	GLN
15	V	299	CYS
16	W	23	PRO
16	W	58	CYS
16	W	61	LEU
16	W	63	THR
16	W	80	PRO
16	W	169	HIS
16	W	174	PRO
16	W	178	SER
19	B	73	THR

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Mol	Chain	Res	Type
19	B	78	CYS
19	B	103	TYR
19	B	107	TYR
19	B	108	GLU
19	B	114	LEU
19	B	126	THR
19	B	132	ARG
19	B	166	THR
19	B	209	ASP
19	B	221	THR
19	B	231	THR
19	B	234	GLU
20	C	74	VAL
20	C	132	SER
20	C	162	MET
20	C	178	ASN
20	C	189	THR
21	D	44	LEU
21	D	74	CYS
21	D	76	VAL
21	D	164	ILE
21	D	180	LYS
21	D	192	LEU
21	D	197	LEU
21	D	218	ARG
22	E	5	ARG
22	E	15	HIS
22	E	35	VAL
22	E	38	ARG
22	E	41	VAL
22	E	43	LEU
22	E	56	GLU
22	E	99	GLU
22	E	103	THR
22	E	139	ASP
22	E	146	GLN
22	E	184	ASP
23	F	20	ARG
23	F	36	THR
23	F	135	ARG
23	F	148	GLU
24	G	38	LEU

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Mol	Chain	Res	Type
24	G	83	LEU
24	G	101	ARG
24	G	202	GLU
24	G	225	ASP
24	G	239	ARG
25	X	5	THR
25	X	39	ILE
25	X	129	ARG
25	X	144	ASP
25	X	181	MET
25	X	187	ARG
26	a	22	THR
26	a	46	SER
26	a	139	VAL
26	a	150	GLU
27	b	6	VAL
27	b	56	THR
27	b	77	VAL
27	b	187	ARG
27	b	198	ARG
27	b	201	ARG
28	c	34	MET
28	c	36	THR
28	c	49	LEU
28	c	126	LEU
28	c	175	VAL
28	c	189	ILE
28	c	191	GLU
28	c	193	ASP
29	d	18	ASP
29	d	27	GLN
29	d	45	LEU
29	d	84	THR
29	d	85	ARG
30	e	8	PHE
30	e	87	VAL
30	e	115	ASP
30	e	138	VAL
31	f	6	VAL
31	f	76	LYS
31	f	99	ARG
31	f	102	PHE

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Mol	Chain	Res	Type
31	f	125	ASP
31	f	163	HIS
31	f	166	LEU
31	f	174	LEU
32	g	37	ARG
32	g	49	THR
32	g	86	ARG
32	g	94	ARG
32	g	141	TYR
32	g	168	LEU
32	g	192	VAL
32	g	205	THR
19	h	59	LYS
19	h	73	THR
19	h	78	CYS
19	h	100	ASN
19	h	114	LEU
19	h	132	ARG
19	h	159	TYR
19	h	166	THR
19	h	205	VAL
19	h	209	ASP
19	h	221	THR
19	h	231	THR
19	h	234	GLU
20	i	51	GLN
20	i	52	LYS
20	i	74	VAL
20	i	87	HIS
20	i	132	SER
20	i	178	ASN
20	i	182	GLU
20	i	183	LEU
20	i	192	LEU
20	i	195	LYS
20	i	198	PHE
20	i	201	GLN
20	i	227	ASP
21	j	44	LEU
21	j	74	CYS
21	j	76	VAL
21	j	164	ILE

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Mol	Chain	Res	Type
21	j	180	LYS
21	j	192	LEU
21	j	218	ARG
22	k	5	ARG
22	k	15	HIS
22	k	35	VAL
22	k	38	ARG
22	k	41	VAL
22	k	99	GLU
22	k	103	THR
22	k	139	ASP
22	k	146	GLN
22	k	184	ASP
23	l	9	ASP
23	l	36	THR
23	l	84	ASP
23	l	135	ARG
23	l	148	GLU
23	l	168	ARG
23	l	208	GLU
24	m	38	LEU
24	m	51	ARG
24	m	77	LEU
24	m	83	LEU
24	m	101	ARG
24	m	196	ARG
24	m	202	GLU
24	m	211	SER
24	m	236	LEU
24	m	239	ARG
25	n	17	ASP
25	n	39	ILE
25	n	41	CYS
25	n	42	LYS
25	n	56	LYS
25	n	129	ARG
25	n	144	ASP
25	n	174	THR
25	n	181	MET
26	o	22	THR
26	o	139	VAL
26	o	150	GLU

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Mol	Chain	Res	Type
27	p	6	VAL
27	p	56	THR
27	p	77	VAL
27	p	198	ARG
27	p	201	ARG
28	q	34	MET
28	q	36	THR
28	q	49	LEU
28	q	126	LEU
28	q	175	VAL
28	q	189	ILE
28	q	191	GLU
28	q	193	ASP
29	r	27	GLN
29	r	45	LEU
29	r	84	THR
29	r	85	ARG
30	s	8	PHE
30	s	73	ARG
30	s	87	VAL
30	s	115	ASP
30	s	138	VAL
31	t	6	VAL
31	t	99	ARG
31	t	102	PHE
31	t	125	ASP
31	t	163	HIS
31	t	166	LEU
32	u	37	ARG
32	u	49	THR
32	u	86	ARG
32	u	94	ARG
32	u	99	ARG
32	u	141	TYR
32	u	168	LEU
32	u	186	ARG
32	u	192	VAL
32	u	205	THR
2	v	93	LEU
2	v	103	ASN
2	v	110	LYS
2	v	111	TYR

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Mol	Chain	Res	Type
2	v	114	ASN
2	v	125	LEU
2	v	135	GLU
2	v	148	GLN
2	v	150	HIS
2	v	153	LEU
2	v	164	MET
2	v	166	VAL
2	v	168	GLU
2	v	180	CYS
2	v	183	GLN
2	v	187	LEU
2	v	188	ARG
2	v	199	GLU
2	v	200	ARG
2	v	203	ASN
2	v	204	LEU
2	v	213	LEU
2	v	220	THR
2	v	234	ASP
2	v	239	ARG
2	v	247	GLN
2	v	265	ARG
2	v	276	GLU
2	v	277	ILE
2	v	278	ASP
2	v	284	ARG
2	v	285	PHE
2	v	287	ASP
2	v	294	GLU
2	v	299	MET
2	v	307	ASP
2	v	309	PHE
2	v	312	ARG
2	v	315	ILE
2	v	322	ASN
2	v	327	LEU
2	v	329	PRO
2	v	332	MET
2	v	334	PRO
2	v	338	ASP
2	v	340	LYS

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Mol	Chain	Res	Type
2	v	342	GLU
2	v	347	ASP
2	v	353	HIS
2	v	355	PHE
2	v	358	HIS
2	v	369	ARG
2	v	377	CYS
2	v	379	ASN
2	v	398	ARG
2	v	400	ARG
2	v	401	ARG
2	v	403	ILE
2	v	415	LYS
2	v	419	SER
2	v	422	LYS
2	v	423	PHE
2	v	424	SER
2	v	430	MET
2	v	431	THR
1	w	103	ARG
1	w	105	THR
1	w	113	GLU
1	w	118	ASP
1	w	120	HIS
1	w	126	SER
1	w	129	SER
1	w	141	LYS
1	w	156	VAL
1	w	162	VAL
1	w	164	MET
1	w	167	THR
1	w	178	LYS
1	w	182	GLU
1	w	183	THR
1	w	193	GLN
1	w	195	GLN
1	w	207	HIS
1	w	210	TYR
1	w	220	LYS
1	w	235	LEU
1	w	237	LYS
1	w	242	GLN

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Mol	Chain	Res	Type
1	w	255	LEU
1	w	257	GLN
1	w	258	LYS
1	w	259	TYR
1	w	260	LEU
1	w	262	ASP
1	w	272	ARG
1	w	275	GLU
1	w	286	GLU
1	w	287	ILE
1	w	293	LYS
1	w	294	ARG
1	w	296	ASP
1	w	299	SER
1	w	302	GLU
1	w	303	ARG
1	w	313	LEU
1	w	315	GLN
1	w	319	PHE
1	w	321	SER
1	w	322	ARG
1	w	324	ASP
1	w	329	MET
1	w	331	THR
1	w	333	ARG
1	w	337	LEU
1	w	342	ILE
1	w	344	PRO
1	w	346	ARG
1	w	348	ASP
1	w	350	LYS
1	w	365	PHE
1	w	366	GLN
1	w	373	THR
1	w	385	MET
1	w	388	ASP
1	w	399	CYS
1	w	408	ARG
1	w	410	ARG
1	w	412	MET
1	w	415	THR
5	x	25	LEU

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Mol	Chain	Res	Type
5	x	33	LEU
5	x	38	LYS
5	x	39	SER
5	x	43	ARG
5	x	46	GLN
5	x	49	ARG
5	x	51	GLU
5	x	57	ARG
5	x	60	ARG
5	x	61	GLU
5	x	69	GLN
5	x	71	SER
5	x	78	ARG
5	x	80	MET
5	x	82	LYS
5	x	84	LYS
5	x	85	VAL
5	x	111	ASN
5	x	113	ARG
5	x	118	ASN
5	x	130	LYS
5	x	132	ASP
5	x	139	MET
5	x	142	LYS
5	x	143	VAL
5	x	147	THR
5	x	149	GLU
5	x	155	ASP
5	x	157	GLN
5	x	173	GLU
5	x	174	LEU
5	x	184	LYS
5	x	194	THR
5	x	198	LEU
5	x	199	LEU
5	x	201	ARG
5	x	207	THR
5	x	210	THR
5	x	213	ARG
5	x	217	SER
5	x	226	GLU
5	x	229	ARG

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Mol	Chain	Res	Type
5	x	230	MET
5	x	249	ASP
5	x	270	GLN
5	x	271	ARG
5	x	273	MET
5	x	275	GLU
5	x	279	GLN
5	x	280	LEU
5	x	283	PHE
5	x	284	GLU
5	x	286	THR
5	x	287	LYS
5	x	290	LYS
5	x	293	MET
5	x	303	SER
5	x	305	LEU
5	x	307	ARG
5	x	308	PRO
5	x	313	ARG
5	x	316	GLU
5	x	340	ARG
5	x	374	ARG
5	x	392	GLN
6	y	40	LEU
6	y	51	LEU
6	y	53	PHE
6	y	54	LEU
6	y	58	GLU
6	y	65	GLN
6	y	72	PHE
6	y	73	LEU
6	y	82	ILE
6	y	87	LEU
6	y	93	LEU
6	y	94	GLU
6	y	98	GLN
6	y	121	ARG
6	y	125	LYS
6	y	139	LEU
6	y	143	LEU
6	y	148	ASP
6	y	152	MET

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Mol	Chain	Res	Type
6	y	154	LEU
6	y	159	LYS
6	y	163	MET
6	y	164	TYR
6	y	170	MET
6	y	171	ASP
6	y	185	LEU
6	y	188	PHE
6	y	193	GLN
6	y	202	VAL
6	y	203	LEU
6	y	205	TYR
6	y	212	LYS
6	y	229	ARG
6	y	233	SER
6	y	237	GLN
6	y	238	LYS
6	y	240	LEU
6	y	245	ARG
6	y	266	GLU
6	y	274	ARG
6	y	278	GLN
6	y	284	GLU
6	y	287	ARG
6	y	297	ASP
6	y	302	ASN
6	y	312	ASN
6	y	322	LEU
6	y	323	ARG
6	y	328	ASP
6	y	330	LYS
6	y	335	LEU
6	y	345	PHE
6	y	351	LYS
6	y	352	MET
6	y	359	ASP
6	y	369	LYS
6	y	379	CYS
6	y	384	MET
6	y	388	ARG
6	y	391	ARG
6	y	403	TYR

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Mol	Chain	Res	Type
6	y	405	THR
6	y	418	LYS
3	z	86	GLN
3	z	87	LEU
3	z	96	THR
3	z	97	ARG
3	z	105	LEU
3	z	108	MET
3	z	109	ARG
3	z	113	ARG
3	z	114	GLU
3	z	116	ASP
3	z	118	LEU
3	z	120	TYR
3	z	122	MET
3	z	123	SER
3	z	129	ASN
3	z	132	TYR
3	z	134	GLU
3	z	138	LEU
3	z	153	LEU
3	z	158	LEU
3	z	159	PHE
3	z	183	LEU
3	z	193	CYS
3	z	196	LEU
3	z	197	LYS
3	z	200	SER
3	z	202	SER
3	z	206	LYS
3	z	216	ARG
3	z	225	HIS
3	z	226	GLN
3	z	234	GLU
3	z	235	ILE
3	z	238	ILE
3	z	241	ARG
3	z	242	ARG
3	z	244	SER
3	z	245	GLU
3	z	247	THR
3	z	251	ARG

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Mol	Chain	Res	Type
3	z	254	GLN
3	z	255	ARG
3	z	257	LEU
3	z	260	LEU
3	z	261	LEU
3	z	267	PHE
3	z	268	ASP
3	z	271	HIS
3	z	272	ARG
3	z	281	ARG
3	z	283	ASP
3	z	307	GLN
3	z	322	LYS
3	z	334	LEU
3	z	344	ARG
3	z	356	ARG
3	z	358	ASP
3	z	361	PHE
3	z	363	VAL
3	z	364	GLN
3	z	367	PHE
3	z	368	MET
3	z	372	ARG
3	z	383	LYS
3	z	385	ASP
4	0	88	TYR
4	0	89	LEU
4	0	95	GLU
4	0	96	LEU
4	0	125	LYS
4	0	134	LEU
4	0	149	ASP
4	0	163	THR
4	0	166	THR
4	0	168	TYR
4	0	170	SER
4	0	178	ASP
4	0	182	THR
4	0	183	GLU
4	0	187	ASP
4	0	206	MET
4	0	209	LYS

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Mol	Chain	Res	Type
4	0	221	LYS
4	0	225	MET
4	0	231	THR
4	0	233	LYS
4	0	250	LYS
4	0	266	LYS
4	0	272	PHE
4	0	284	PHE
4	0	289	ASP
4	0	295	ARG
4	0	296	PHE
4	0	299	GLU
4	0	304	ARG
4	0	305	GLU
4	0	307	GLN
4	0	310	MET
4	0	318	ASP
4	0	320	PHE
4	0	323	ASN
4	0	327	LYS
4	0	334	ARG
4	0	338	LEU
4	0	339	ASP
4	0	344	ARG
4	0	348	LEU
4	0	351	LYS
4	0	364	ARG
4	0	366	MET
4	0	367	GLN
4	0	369	HIS
4	0	372	LYS
4	0	378	ASP
4	0	388	THR
4	0	409	ARG
4	0	415	LEU
4	0	416	THR
4	0	425	LEU
4	0	430	LYS
4	0	435	LEU
7	1	17	PRO
7	1	119	PRO
7	1	125	PRO

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Mol	Chain	Res	Type
7	1	165	LYS
7	1	168	LEU
7	1	170	SER
7	1	174	PRO
7	1	179	TYR
7	1	211	PRO
7	1	271	VAL
7	1	363	SER
7	1	402	PHE
7	1	407	SER
7	1	425	THR
7	1	431	THR
7	1	433	PRO
7	1	444	TYR
7	1	469	SER
7	1	471	ASP
7	1	576	PRO
7	1	601	ARG
7	1	630	PRO
7	1	650	TYR
7	1	758	PRO
7	1	794	ASP
7	1	808	PRO
7	1	816	PRO
7	1	881	PRO
7	1	895	PRO
7	1	905	PRO
7	1	928	VAL
7	1	933	PRO
8	2	5	PRO
8	2	19	PRO
8	2	73	PRO
8	2	90	PRO
8	2	146	PRO
8	2	189	PRO
8	2	274	LEU
8	2	279	GLU
8	2	303	THR
8	2	339	ARG
8	2	349	MET
8	2	353	LEU
8	2	354	GLU

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Mol	Chain	Res	Type
8	2	358	THR
8	2	362	SER
8	2	363	MET
8	2	364	GLU
8	2	368	GLU
9	3	48	LEU
9	3	49	SER
9	3	52	LYS
9	3	55	ARG
9	3	70	VAL
9	3	119	PRO
9	3	159	VAL
9	3	254	PRO
9	3	300	PRO
9	3	317	TRP
9	3	318	SER
9	3	351	TRP
9	3	373	ILE
9	3	383	ASP
9	3	401	THR
9	3	422	ASN
9	3	436	MET
9	3	441	LYS
9	3	448	LYS
9	3	451	MET
10	4	82	LYS
10	4	111	LEU
10	4	125	LEU
10	4	126	ARG
10	4	145	GLU
10	4	154	LEU
10	4	155	ARG
10	4	158	LYS
10	4	166	LEU
10	4	168	GLU
10	4	171	LEU
10	4	177	TYR
10	4	185	LYS
10	4	187	ARG
10	4	191	THR
10	4	207	GLN
10	4	221	GLU

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Mol	Chain	Res	Type
10	4	222	GLU
10	4	223	LYS
10	4	230	SER
10	4	233	TYR
10	4	241	SER
10	4	242	ILE
10	4	244	SER
10	4	249	THR
10	4	264	PRO
10	4	283	GLN
10	4	296	ASN
10	4	316	ASP
10	4	317	PRO
10	4	321	THR
10	4	325	LYS
10	4	326	LEU
10	4	337	ARG
10	4	392	PRO
10	4	393	VAL
10	4	403	THR
10	4	409	LYS
10	4	416	ASN
10	4	417	LYS
11	5	23	ARG
11	5	50	MET
11	5	92	GLU
11	5	134	LEU
11	5	173	ASP
11	5	179	ARG
11	5	196	GLN
11	5	202	LEU
11	5	203	ASP
11	5	207	THR
11	5	212	GLU
11	5	214	MET
11	5	238	GLU
11	5	250	LEU
11	5	254	PRO
11	5	259	TYR
11	5	260	LEU
11	5	270	VAL
11	5	292	TYR

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Mol	Chain	Res	Type
11	5	302	HIS
11	5	304	TYR
11	5	337	PHE
11	5	366	TYR
11	5	367	GLN
11	5	371	LYS
11	5	372	LYS
11	5	379	ARG
12	6	300	LEU
12	6	307	ARG
12	6	320	THR
12	6	351	PRO
12	6	352	SER
12	6	431	PRO
12	6	467	TYR
12	6	469	THR
12	6	477	HIS
12	6	479	ARG
12	6	482	PHE
13	7	107	PRO
13	7	110	SER
13	7	130	PRO
13	7	137	THR
13	7	162	PRO
13	7	173	CYS
13	7	182	LEU
13	7	183	PRO
13	7	216	PRO
13	7	218	LYS
13	7	237	MET
13	7	296	PRO
13	7	309	VAL
13	7	312	PRO
13	7	333	THR
13	7	337	LYS
13	7	342	TYR
14	8	23	PHE
14	8	33	LYS
14	8	58	PHE
14	8	79	TYR
14	8	88	ARG
14	8	101	LEU

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Mol	Chain	Res	Type
14	8	116	CYS
14	8	128	PRO
14	8	157	HIS
14	8	159	THR
14	8	166	GLU
14	8	173	GLU
14	8	175	LEU
14	8	176	LEU
14	8	177	ARG
14	8	184	VAL
14	8	196	HIS
14	8	209	ARG
14	8	245	PHE
14	8	249	PHE
14	8	252	LYS
14	8	267	ARG
14	8	273	HIS
14	8	279	LYS
14	8	282	ASN
15	9	46	ARG
15	9	50	PRO
15	9	96	LEU
15	9	98	MET
15	9	104	ARG
15	9	105	PRO
15	9	118	PHE
15	9	139	ARG
15	9	150	SER
15	9	208	ARG
15	9	212	LEU
15	9	226	MET
15	9	227	GLU
15	9	229	LEU
15	9	236	GLU
15	9	237	HIS
15	9	240	HIS
15	9	248	MET
15	9	254	ASN
15	9	261	GLU
15	9	262	GLU
15	9	264	LYS
15	9	265	MET

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Mol	Chain	Res	Type
15	9	277	LYS
15	9	281	LYS
15	9	282	ARG
15	9	285	GLU
15	9	287	HIS
15	9	295	ASN
15	9	298	GLN
15	9	299	CYS
16	AA	23	PRO
16	AA	58	CYS
16	AA	63	THR
16	AA	80	PRO
16	AA	169	HIS
16	AA	174	PRO
16	AA	178	SER

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (221) such sidechains are listed below:

Mol	Chain	Res	Type
1	I	120	HIS
1	I	181	GLN
1	I	193	GLN
1	I	207	HIS
1	I	241	ASN
1	I	298	ASN
1	I	314	ASN
1	I	315	GLN
1	I	332	ASN
2	H	114	ASN
2	H	148	GLN
2	H	203	ASN
2	H	247	GLN
2	H	293	ASN
2	H	305	GLN
2	H	322	ASN
3	L	51	GLN
3	L	75	ASN
3	L	124	HIS
3	L	226	GLN
3	L	262	ASN
3	L	316	HIS
4	M	315	ASN

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Mol	Chain	Res	Type
4	M	323	ASN
4	M	333	ASN
4	M	380	ASN
4	M	436	GLN
5	J	36	ASN
5	J	69	GLN
5	J	118	ASN
5	J	157	GLN
5	J	171	HIS
5	J	206	HIS
5	J	270	GLN
5	J	279	GLN
5	J	337	ASN
5	J	380	GLN
6	K	67	ASN
6	K	74	HIS
6	K	99	ASN
6	K	110	ASN
6	K	173	GLN
6	K	175	GLN
6	K	221	HIS
6	K	222	HIS
6	K	237	GLN
6	K	257	ASN
6	K	286	GLN
6	K	302	ASN
6	K	304	ASN
6	K	312	ASN
7	N	259	GLN
7	N	345	ASN
7	N	347	ASN
7	N	412	HIS
7	N	596	ASN
7	N	645	ASN
7	N	697	GLN
7	N	880	ASN
8	O	273	GLN
9	P	288	HIS
9	P	361	HIS
9	P	423	ASN
9	P	440	ASN
9	P	444	HIS

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Mol	Chain	Res	Type
9	P	454	ASN
10	Q	148	HIS
10	Q	152	GLN
10	Q	170	GLN
10	Q	207	GLN
10	Q	218	HIS
10	Q	334	ASN
11	R	136	HIS
11	R	178	ASN
11	R	280	GLN
11	R	291	HIS
11	R	344	HIS
11	R	363	ASN
12	S	299	GLN
12	S	326	GLN
12	S	473	GLN
14	U	12	HIS
14	U	22	HIS
14	U	96	HIS
14	U	102	HIS
14	U	109	ASN
14	U	223	ASN
14	U	254	ASN
14	U	273	HIS
14	U	278	ASN
15	V	77	GLN
15	V	101	GLN
15	V	210	ASN
15	V	221	HIS
15	V	241	ASN
15	V	295	ASN
15	V	298	GLN
16	W	18	ASN
16	W	44	ASN
16	W	101	GLN
16	W	142	ASN
16	W	169	HIS
19	B	75	ASN
19	B	100	ASN
20	C	201	GLN
21	D	142	HIS
22	E	54	GLN

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Mol	Chain	Res	Type
23	F	182	GLN
24	G	5	GLN
24	G	166	GLN
26	a	66	HIS
28	c	173	ASN
29	d	71	ASN
30	e	38	ASN
31	f	146	GLN
32	g	81	HIS
19	h	53	GLN
19	h	100	ASN
26	o	66	HIS
28	q	173	ASN
29	r	71	ASN
30	s	38	ASN
31	t	146	GLN
32	u	81	HIS
2	v	114	ASN
2	v	148	GLN
2	v	203	ASN
2	v	247	GLN
2	v	293	ASN
2	v	305	GLN
2	v	322	ASN
1	w	120	HIS
1	w	181	GLN
1	w	193	GLN
1	w	207	HIS
1	w	241	ASN
1	w	298	ASN
1	w	314	ASN
1	w	315	GLN
1	w	332	ASN
5	x	36	ASN
5	x	69	GLN
5	x	118	ASN
5	x	171	HIS
5	x	206	HIS
5	x	270	GLN
5	x	337	ASN
5	x	380	GLN
6	y	67	ASN

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Mol	Chain	Res	Type
6	y	74	HIS
6	y	99	ASN
6	y	110	ASN
6	y	173	GLN
6	y	175	GLN
6	y	221	HIS
6	y	222	HIS
6	y	237	GLN
6	y	257	ASN
6	y	286	GLN
6	y	302	ASN
6	y	304	ASN
6	y	312	ASN
3	z	51	GLN
3	z	75	ASN
3	z	124	HIS
3	z	226	GLN
3	z	262	ASN
3	z	316	HIS
4	0	315	ASN
4	0	333	ASN
4	0	380	ASN
4	0	436	GLN
7	1	259	GLN
7	1	345	ASN
7	1	347	ASN
7	1	596	ASN
7	1	645	ASN
7	1	697	GLN
7	1	880	ASN
8	2	273	GLN
9	3	288	HIS
9	3	361	HIS
9	3	423	ASN
9	3	440	ASN
9	3	444	HIS
9	3	454	ASN
10	4	148	HIS
10	4	152	GLN
10	4	170	GLN
10	4	207	GLN
10	4	218	HIS

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Mol	Chain	Res	Type
10	4	334	ASN
11	5	136	HIS
11	5	178	ASN
11	5	280	GLN
11	5	291	HIS
11	5	344	HIS
11	5	363	ASN
12	6	299	GLN
12	6	473	GLN
14	8	12	HIS
14	8	22	HIS
14	8	72	HIS
14	8	96	HIS
14	8	102	HIS
14	8	223	ASN
14	8	254	ASN
14	8	273	HIS
14	8	278	ASN
15	9	77	GLN
15	9	101	GLN
15	9	210	ASN
15	9	221	HIS
15	9	241	ASN
15	9	295	ASN
15	9	298	GLN
16	AA	18	ASN
16	AA	44	ASN
16	AA	101	GLN
16	AA	142	ASN
16	AA	169	HIS

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates ⓘ

There are no carbohydrates in this entry.

5.6 Ligand geometry ⓘ

12 ligands are modelled in this entry.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
33	ADP	0	501	-	24,29,29	0.95	1 (4%)	23,45,45	1.85	2 (8%)
33	ADP	H	501	-	24,29,29	1.00	1 (4%)	23,45,45	1.78	2 (8%)
33	ADP	I	501	-	24,29,29	1.00	1 (4%)	23,45,45	1.76	2 (8%)
33	ADP	J	501	-	24,29,29	0.92	1 (4%)	23,45,45	1.79	2 (8%)
33	ADP	K	501	-	24,29,29	0.98	1 (4%)	23,45,45	1.82	2 (8%)
33	ADP	L	401	-	24,29,29	0.98	1 (4%)	23,45,45	1.73	1 (4%)
33	ADP	M	501	-	24,29,29	0.95	1 (4%)	23,45,45	1.85	2 (8%)
33	ADP	v	501	-	24,29,29	1.00	1 (4%)	23,45,45	1.78	2 (8%)
33	ADP	w	501	-	24,29,29	1.00	1 (4%)	23,45,45	1.76	2 (8%)
33	ADP	x	501	-	24,29,29	0.92	1 (4%)	23,45,45	1.79	2 (8%)
33	ADP	y	501	-	24,29,29	0.98	1 (4%)	23,45,45	1.82	2 (8%)
33	ADP	z	401	-	24,29,29	0.98	1 (4%)	23,45,45	1.73	1 (4%)

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
33	ADP	0	501	-	-	0/12/32/32	0/3/3/3
33	ADP	H	501	-	-	0/12/32/32	0/3/3/3
33	ADP	I	501	-	-	0/12/32/32	0/3/3/3
33	ADP	J	501	-	-	0/12/32/32	0/3/3/3
33	ADP	K	501	-	-	0/12/32/32	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
33	ADP	L	401	-	-	0/12/32/32	0/3/3/3
33	ADP	M	501	-	-	0/12/32/32	0/3/3/3
33	ADP	v	501	-	-	0/12/32/32	0/3/3/3
33	ADP	w	501	-	-	0/12/32/32	0/3/3/3
33	ADP	x	501	-	-	0/12/32/32	0/3/3/3
33	ADP	y	501	-	-	0/12/32/32	0/3/3/3
33	ADP	z	401	-	-	0/12/32/32	0/3/3/3

All (12) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
33	x	501	ADP	C5-C4	2.77	1.46	1.40
33	J	501	ADP	C5-C4	2.77	1.46	1.40
33	0	501	ADP	C5-C4	2.84	1.46	1.40
33	M	501	ADP	C5-C4	2.84	1.46	1.40
33	K	501	ADP	C5-C4	2.96	1.47	1.40
33	y	501	ADP	C5-C4	2.96	1.47	1.40
33	L	401	ADP	C5-C4	2.96	1.47	1.40
33	z	401	ADP	C5-C4	2.96	1.47	1.40
33	v	501	ADP	C5-C4	3.14	1.47	1.40
33	H	501	ADP	C5-C4	3.14	1.47	1.40
33	w	501	ADP	C5-C4	3.16	1.47	1.40
33	I	501	ADP	C5-C4	3.16	1.47	1.40

All (22) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	0	501	ADP	N3-C2-N1	-6.78	123.54	128.87
33	M	501	ADP	N3-C2-N1	-6.78	123.54	128.87
33	v	501	ADP	N3-C2-N1	-6.68	123.62	128.87
33	H	501	ADP	N3-C2-N1	-6.68	123.62	128.87
33	x	501	ADP	N3-C2-N1	-6.68	123.63	128.87
33	J	501	ADP	N3-C2-N1	-6.68	123.63	128.87
33	L	401	ADP	N3-C2-N1	-6.60	123.69	128.87
33	z	401	ADP	N3-C2-N1	-6.60	123.69	128.87
33	K	501	ADP	N3-C2-N1	-6.56	123.72	128.87
33	y	501	ADP	N3-C2-N1	-6.56	123.72	128.87
33	w	501	ADP	N3-C2-N1	-6.55	123.73	128.87
33	I	501	ADP	N3-C2-N1	-6.55	123.73	128.87
33	K	501	ADP	C1'-N9-C4	-2.03	124.54	126.81
33	y	501	ADP	C1'-N9-C4	-2.03	124.54	126.81
33	0	501	ADP	C1'-N9-C4	-2.02	124.56	126.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	M	501	ADP	C1'-N9-C4	-2.02	124.56	126.81
33	v	501	ADP	C4'-O4'-C1'	2.01	111.77	109.64
33	H	501	ADP	C4'-O4'-C1'	2.01	111.77	109.64
33	w	501	ADP	C4'-O4'-C1'	2.02	111.78	109.64
33	I	501	ADP	C4'-O4'-C1'	2.02	111.78	109.64
33	x	501	ADP	O3B-PB-O2B	2.11	115.19	107.44
33	J	501	ADP	O3B-PB-O2B	2.11	115.19	107.44

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

7 monomers are involved in 109 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
33	0	501	ADP	9	0
33	H	501	ADP	6	0
33	I	501	ADP	23	0
33	J	501	ADP	21	0
33	K	501	ADP	23	0
33	L	401	ADP	16	0
33	M	501	ADP	11	0

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.